elesa+GANTER

DESIGNED
FOR ENGINEERING

elesa+GANTER

DESIGNED
FOR ENGINEERING

TWO COMPANIES
ONE WORLD OF STANDARD PARTS

ELESA+GANTER is a worldwide sales joint-venture set-up to offer the widest product range of standard machine elements for the mechanical industry. Highly reliable products ensuring perfect functionality with a unique design represents the ELESA+GANTER distinctive quality code.

ABOUT ELESA+GANTER

ELESA+GANTER is the worldwide sales joint-venture between Elesa S.p.A. (Italy) and Otto Ganter GmbH & Co. KG (Germany). In 1995, after more than 20 years of successful cooperation, the two companies started setting up a combined product range and a common sales network under the trademark ELESA+GANTER.

The combination of ELESA know-how in design and manufacturing of engineering plastics with GANTER expertise and precision in metal parts makes ELESA+GANTER a unique range.

Customers soon started appreciating it from all over the world. Subsidiaries were established initially in Austria, Spain, Poland and then in China, Czech Republic, India and Turkey.

ELESA+GANTER subsidiaries offer a pool of specialised engineers, constantly in contact with R&D departments at both the parent companies in Italy and Germany, to develop special executions or new technical solutions meeting customers' specific requirements.

Stock availability on site ensures local customers receive standard elements with reduced delivery times whilst providing timely and reliable answers.

Over 60.000 product codes distributed in more than 70 industrialised countries with local presence and the highest technical consultancy.

Elesa+Ganter Austria GmbH

Elesa-Ganter Ibérica S.L.

Elesa+Ganter Polska Sp. z o.o.

Elesa+Ganter China CO., LTD.

Elesa+Ganter CZ s.r.o.

Elesa and Ganter India PVT LTD

Elesa+Ganter Türkiye

DESIGNED FOR ENGINEERING

Designing and manufacturing technical solutions for the mechanical industry represent the achievement and the commitment of Elesa and Ganter.

A guarantee for leading-edge benefits for the customers.

DESIGNED
FOR ENGINEERING

POINTS OF STRENGTH

- Technological background from two established parent companies
- Innovation in combination with decades of experience
- Unique design
- Optimised and widest product range of standard machine elements, driven by the market
- Worldwide distribution network
- Full stock availability with fast delivery times
- Customised solutions
- Perfect service including technical assistance

QUALITY AND DESIGN

To always offer unique and recognizable products anywhere in the world: a commitment since 1977.
ELESA+GANTER product range contributes to improve the quality of the machines and equipment they are destined for. Constant research on ergonomics, production materials and functionality results in a range characterised by a quality that can be appreciated by hand, and a unique design as proven by **45 industrial design awards** by the most prestigious **international juries**.

reddot design award

Reddot Design
(**2**)

Good Design

Good Design

FLUIDTRANS COMPOMAC

Fluidtrans
Compomac

IF DESIGN AWARD

IF Design Awards
(**29**)

design stuttgart

Design Stuttgart
(**5**)

Premio Compasso d'oro

Compasso d'Oro
(**2**)

PRODUKT ROKU

Produkt Roku
(**3**)

HaPes Award

PPMA WINNER 2014

PPMA Industry

THE ITALIAN PARENT COMPANY

For over 75 years ELESA has been the international reference for standard components destined to the mechanical and machinery industrial equipment sectors.

Elesa S.p.A. Headquarters Monza (Milan) Italy

Elesa France S.A.

Elesa (UK) Ltd

Elesa USA Corporation

Elesa Scandinavia AB (SE)

ABOUT ELESA

Established in 1941 in Italy, ELESA has earned the status as a reference point for designers and machine builders.
An excellent combination of technology and design has given rise to a diverse production thanks to the constant commitment to follow developments in engineering plastics and their processing technology.

A corporate culture strongly committed to product quality combined with an innate sensitivity for design and ergonomic research has led to the creation of products unique and recognisable worldwide as ELESA products. An authentical "Made in Italy" which has become popular around the world and particularly appreciated by the most qualified machine manufacturers.

Since the 50's, ELESA has been actively involved in the cultural revision of machine tool aesthetics, that was taking shape around that time, by innovating the design of accessories and components for the mechanical industry, machinery and industrial equipment.

An ongoing commitment to which ELESA has always been loyal over the decades, as proven by the 39 industrial design awards from the most prestigious juries, received in the last 40 years and the 180 patents and registered designs. ELESA continues to invest in R & D and in particular in the innovation of its production technologies aiming to creating new products or to further improve performances and reliability of the existing ones.

Tens of millions of pieces are produced every year at the parent company in Monza using the latest automated production technologies.

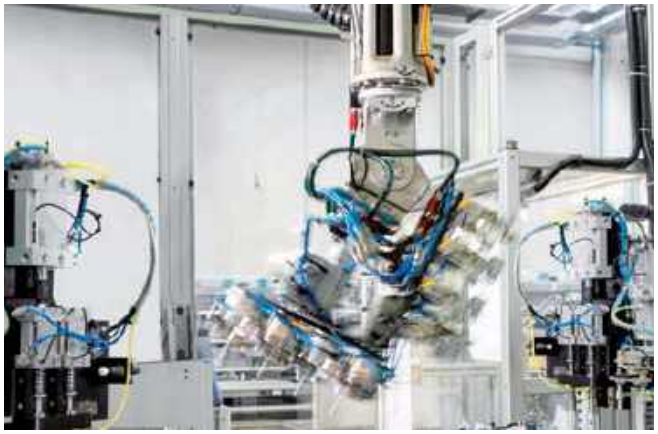
A keen dedication to product quality combined with Italian design represent in brief ELESA company culture.

Environmentally Conscious Manufacturing

Production facilities in Monza

Logistic centre

R&D Department - Test Laboratory



Automatic production unit

Italian Association of Machine Tool Manufacturers

Italian Packaging Machinery Manufacturers Association

ITALIAN INSTITUTE OF UNIFICATION

All standard products in the ELESA range are subject to mechanical, physical, chemical and durability testing in order to provide correct and reliable technical data.
Most of the tests are carried out in the ELESA laboratory, a modern facility equipped with the most advanced testing instruments which is also at the disposal of customers for carrying out tests that simulate specific or particularly heavy conditions of use.

AEO

bsi. ISO 9001 Quality Management — FM 23747 — Quality Management

bsi. ISO 14001 Environmental Management — EMS 518430 — Environmental Management

bsi. OHSAS 18001 Occupational Health and Safety Management — OHS 584384 — Occupational Health and Safety Management

THE GERMAN PARENT COMPANY

GANTER's well proven expertise with more than 120 years of market-leadership in standard parts for every sector of the industry speaks for itself.

Otto Ganter GmbH & Co. KG Headquarters in Furtwangen (Germany)

Ganter Logistic Center

Production plant in Rheinhausen

Otto Ganter published the first catalogue for standard parts in 1912.

ABOUT GANTER

Established in 1894 as a mechanical workshop, Ganter released the first catalogue for standard parts as early as 1912 – five years before the foundation of the Deutsche Industrie Norm (DIN). The idea of standardizing industrial products, manufacturing them in economical lot sizes, storing and selling them individually was entirely new at that time. Right to this day, this principle has been the foundation of our actions which, thanks to broad availability and the latest in production engineering, guarantee ultimate benefits for the customer.

LEADING WORLDWIDE

Ganter is at the leading edge in the development, production and marketing of standard parts for the entire industry. Quality and volume of production selection set the standards across all industries. Ganter's standard parts are offered worldwide through an efficient sales network. Quality, advice and availability are thus guaranteed – wherever you are located.

GANTER customers appreciate and benefit from a strong service orientation for special requests, automated warehouses with everything on stock and a quick service. German accuracy is found in each standard and customized part at every branch location.

Automated Warehouse

Test laboratory

Production unit

SERVICE INCLUSIVE

Ganter's unique range of standard parts has the appropriate product for virtually every possible application – or if not, help is at hand for customized solutions. One thing is certain, though: Standard parts from Ganter come from a single source and offer the best possible support to the design and procurement process.

QUICK AND DIRECT

Thanks to an efficient logistics approach, Ganter is capable of delivering standard parts in the shortest possible time – anywhere in the world.

WORLDWIDE SALES NETWORK

Elesa+Ganter distribution network reaches more than 70 different countries worldwide. Thanks to the close relationship with the headquarters, ELESA+GANTER subsidiaries and distributors are able to provide customers with the highest technical support.

AMERICA

Argentina
Brazil
Canada
Mexico
USA

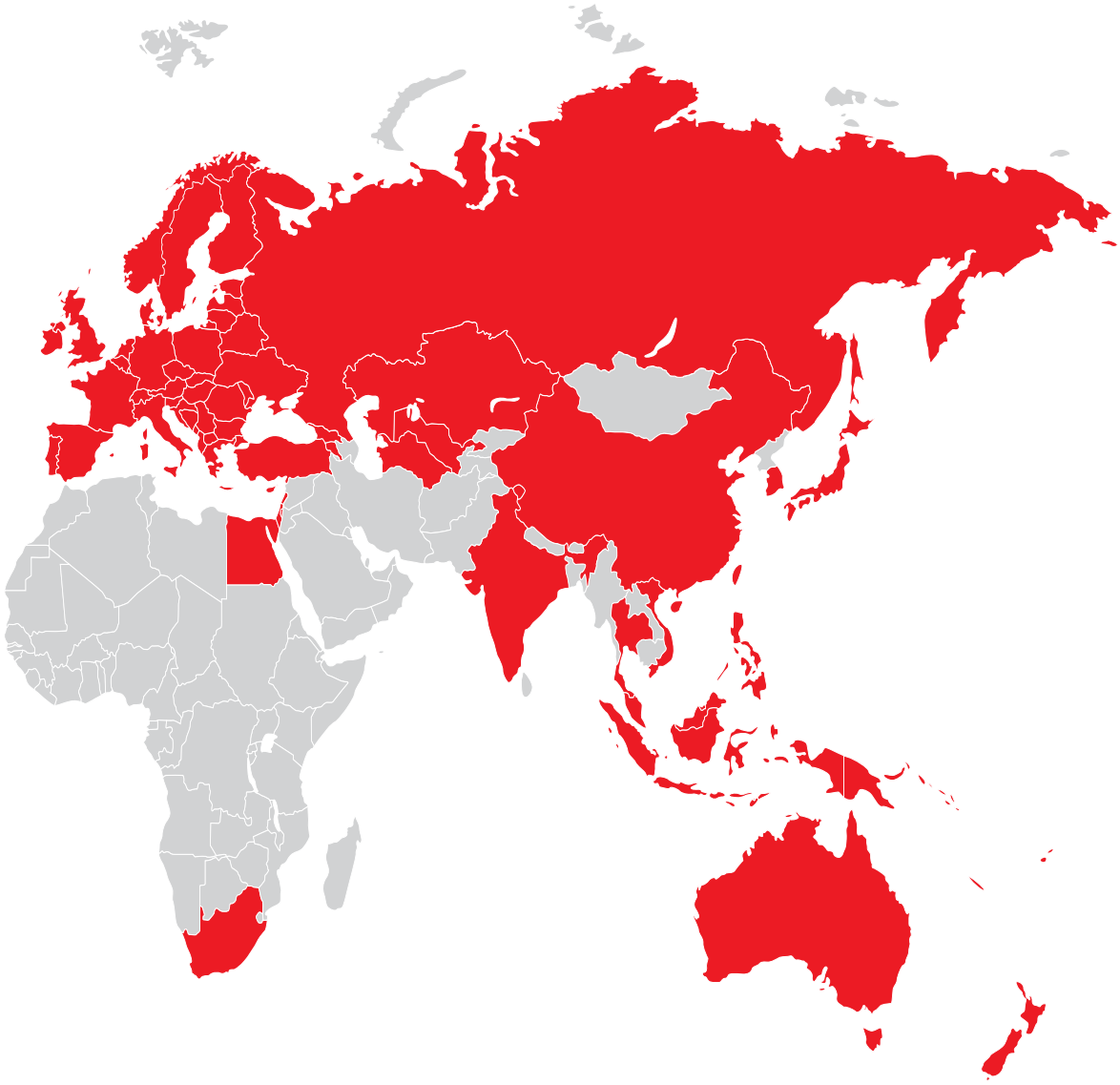
AFRICA

Egypt
South Africa

ASIA

China
Georgia
Hong Kong
India
Indonesia
Israel
Japan
Kazakhstan
Malaysia
Philippines
Singapore
South Korea
Taiwan
Thailand
Turkmenistan
Uzbekistan
Vietnam

Find ELESA+GANTER
in your country on
elesa-ganter.com



EUROPE

Austria
Belarus
Belgium
Bosnia-Herzegovina
Bulgaria
Croatia
Cyprus
Czech Republic
Denmark
Eire
Estonia
Finland
France
Germany
Great Britain
Greece
Hungary
Iceland
Italy
Kosovo
Latvia
Lithuania
Luxemburg
Macedonia
Moldova
Montenegro
Netherlands
Norway
Poland
Portugal
Romania
Russia
Serbia
Slovakia
Slovenia
Spain
Sweden
Switzerland
Turkey
Ukraine

OCEANIA

Australia
New Zealand

HIGH PERFORMING ITEMS

Standard components with innovative features, ergonomic design in compliance with strict directives to meet specific needs and applications.

STAINLESS STEEL CORROSION RESISTANCE

Due to its high corrosion resistance, stainless steel is one of the most sought-after materials in many sectors of the mechanical industry.
ELESA+GANTER product range includes a wide assortment of special AISI stainless steel products throughout all product groups. It covers both stainless steel standard elements as well as technopolymer standard elements with stainless steel metal inserts.

Designed for: food-processing, chemical and pharmaceutical industries, difficult environmental conditions and for all applications where provisions of law make it mandatory to use corrosion resistant materials.

WHITE FOR DIRT-PROOF SURFACES

RAL 9002 white colour is particularly suitable in medical enviroments, as it allows the prompt identification of any dust or dirt traces, making cleaning operations easier. From a psychological point of view, it also gives the operators and the patients a sense of sterility and maximum cleanliness.
Compact shapes and lack of cavities allow avoiding any deposit of dirt, dust and machining residues.
ELESA+GANTER product range includes an assortment of handles and clamping knobs in white technopolymer, also with stainless steel inserts.

Designed for: medical and hospital equipment.

SANITATION AGAINST BACTERIAL INFECTION

SAN LINE products avoid reproduction of any undesired organisms such as microbes, bacteria, mildew and fungi which can cause unpleasant odours, discoloration, degradation and formation of biofilm on surfaces.
Handles and knobs containing antimicrobial additives (mixture of silver ions on an inorganic ceramic base without chemicals, antibiotics or pesticides) or coated with a special finishing material to offer an adequate protection.

Designed for: disability aids, medical and hospital equipment.

COMFORTABLE AND SAFE GRIP

SOFT-TOUCH product line features a soft and slip-proof surface to ensure a safer and more stable ergonomic grip even under unfavourable conditions of use such as in the presence of moisture and grease.
Moreover, SOFT-TOUCH allows a better force transfer between hand and operating elements and ensures the absorption of vibrations during operations.

Designed for: disability aids, high-precision instruments, fitness machines, gardening and unfavourable climatic conditions.

CONDUCTIVE TECHNOPOLYMER

ESD line products are suitable in EPA environments (ESD Protected Areas) where components are susceptible to electrostatic discharges and have to be handled with the minimum risk of damage. The special conductive technopolymer (ESD-C Electrostatic Discharge Conductive) prevents the accumulation of electrostatic charge between bodies with different electric potential.
The special mark ESD-C is laser-engraved indelibly on each element according to EN 100015/1 and IEC 61340-5-1.

Designed for: assembly lines for electronical components, ESD-Protected Area (EPA).

COMPLIANT WITH ATEX EUROPEAN DIRECTIVE

Components complying with health and safety requirements according to 94/9/EC ATEX European directive (explosive atmospheres) for equipment in Group II, category 2GD.
ELESA+GANTER extensive range of oil level sight glasses and plugs provides solutions for highly demanding requirements, such as high temperatures, high pressure loads or aggressive substances.

Designed for: equipment and machines, such as hydraulic components and gears, for use in environments subject to explosion risk.

SELF-EXTINGUISHING TECHNOPOLYMER

Standard elements for applications in public environments where there is risk of fire, such as in the lighting sector.
ELESA+GANTER elements made in self-extinguishing special technopolymer certified “V0” in accordance with UL-94 V (Underwriters Laboratories). This classification is used to describe the reaction of plastics to flames. Laboratory tests proved that under vertical burning each individual sample requires less than 10 seconds to exhinguish flames.

Designed for: entertainment equipment, urban and public fittings.

STANDARD MACHINE ELEMENTS FOR PROFILE SYSTEMS

Standard elements in this product line are compatible with the most common aluminium profile systems. Using matching assembly sets, the ELESA+GANTER standard elements are easily and cost-effectively connected with the profiles without time-consuming compiling of individual parts in the order.

- Compatible with the common profile systems
- For groove widths of 6, 8 and 10 mm
- For profiles 30, 40 and 45 mm

Designed for: assembly on common profile systems for various different sectors.

STAINLESS STEEL PRODUCTS

Standard parts made of rustproof stainless steel have been designed for use in the food sector, in the chemical industry, for aggressive ambient conditions or for outdoor use.

INOX STAINLESS STEEL

STAINLESS STEEL PRODUCT LINE

Standard parts made of rust-proof Stainless Steel grades- designed for use in the food industry, the chemical industry or in general for use in aggressive atmospheres or outdoors. Normally made with galvanic surface treatment, standard parts in the Stainless Steel product family are not only corrosion-resistant, but also precisely fitting and environmentally friendly.

- Excellent corrosion resistance
- Durable
- Robust

ERGONOMICS AND DESIGN

Good design and ergonomics should start with a thorough understanding of the product's functions and the interaction between man and machine, taking into account the full set of movements involved in each operation.

FIVE POINTS
a discrete trademark that distinguishes all ERGOSTYLE® products

elecolors®

ERGOSTYLE® by ELESA

ERGOSTYLE® PRODUCT LINE

ERGOSTYLE® products combine perfectly with the machines and equipment they are destined for, contributing to enhance their value and quality.

ERGOSTYLE® was conceived at the beginning of the '90s, for a series of new markets such as hospital, medical, sports and leisure equipment, scientific instrumentation and office furniture requiring, in addition to pure functionality, a particular care in ergonomics and design.
Nowadays, ERGOSTYLE® is accepted and requested by a growing number of traditional industrial sectors where machines and equipment have undergone, over the last few decades, a profound aesthetic and design renovation.

- Perfect functionality
- Modern lines and ergonomic shapes
- Inserts in six standard ELECOLORS®

ERGOSTYLE® obtained several of the world's most distinguished recognitions in Industrial Design

reddot award 2015 winner

HYGIENIC DESIGN

In the food industry, medical technology and the pharmaceutical industry, product safety and consumer protection are becoming increasingly important.

Due to their specific properties, standard parts in Hygienic Design can assist the production process in these sensitive areas and facilitate the manufacture of products with a long shelf life, which are free from preservatives.

HD

HYGIENIC DESIGN PRODUCT LINE

Standard parts of the Hygienic Design product family are labeled with the HD icon. They combine high surface quality, freedom from dead spaces, non-scooped outer surfaces, and sealed bolting areas. A sealing concept based on FEM calculations ensures reliable contact pressure after installation.
Hygienic Design also means that the time and material needed for regular cleaning is significantly reduced – which also noticeably lowers operating costs.

Less and shorter cleaning work (this can be up to 25% of the production time), therefore

- More time available for production
- Less fresh water consumption
- Lower energy consumption
- Less cleaning agent required
- Less production of waste water
- Lower total costs and saving of resources

SUPER-TECHNOPOLYMER

Technopolymer with high mechanical and thermal performances.
The latest evolution in engineering polymer materials for the industrial sector.

SUPER TECHNO POLYMER

SUPER-TECHNOPOLYMER PRODUCT LINE

The most technologically advanced industries, such as automotive, aerospace and electronics, have long ago understood the many benefits arising from the use of engineering plastics.

- High mechanical performance
- Corrosion resistance
- Lightness
- Non magnetic
- Low coefficient of friction
- Maintenance free
- Thermal insulation

This evolution goes beyond the simple use of high performance engineering plastics as an alternative to metal. In fact, to manufacture technopolymer products suitable for applications which generally required metal products, the design phase needs to be performed with great expertise by optimising shapes and thickness, to benefit from all the typical characteristics of polymeric materials.

The range presents several components made of SUPER-Technopolymer able to combine favourably the advantages of engineering plastics with those of metal.

CUSTOMISED SOLUTIONS

ELESA's and GANTER's modern and automated production facilities, together with their know-how in design and manufacture are at the disposal of all customers for the development of new technical solutions and customised production.

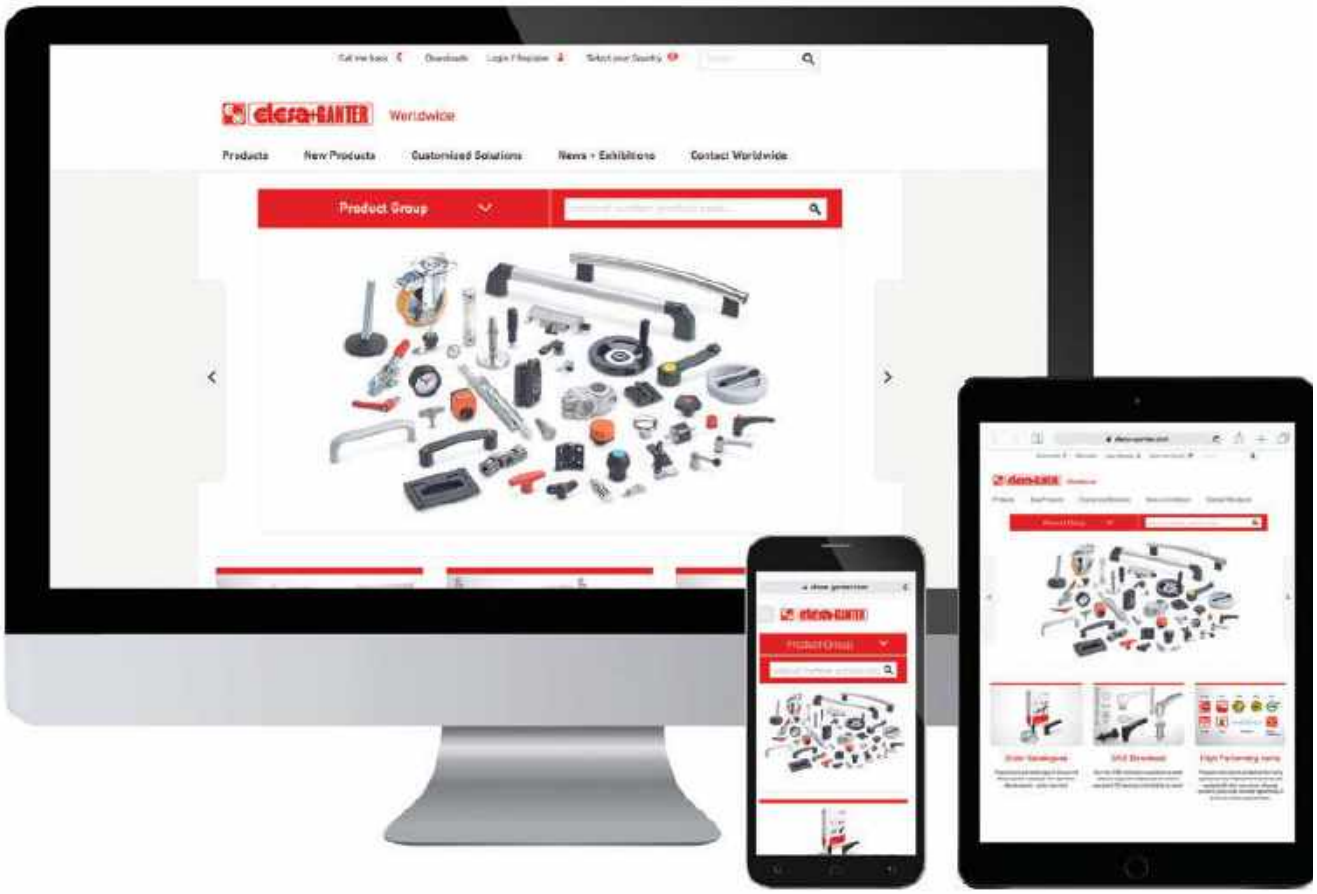
FULL TECHNICAL AND MANUFACTURING COMPETENCE

In addition to the wide range of standard machine elements, the strong customer orientation and production flexibility of the two parent companies allow for the offering of customised technical solutions meeting specific requirements.
Both Technical Departments are able to provide a cost-effective solution by modifying an existing ELESA+GANTER standard part or by going all the way back to the drawing board.

- Special shapes, dimensions, threads.
- Special colours
  non standard colour options.
- Special surface treatments
  plastic powder coating, zinc, nickel and chrome plating, anodising.
- Special product branding
  logos and texts by tampoprinting, laser-engraving and moulding.

ELESA-GANTER.COM

You can browse on ELESA+GANTER website the General Catalogue from your desktop and mobile devices.



Follow us on Youtube

WEBSITE CONTENTS

The online catalogue offers the design-engineer the possibility to search for the right element either by browsing the catalogue or using the online search engine performing a new filter functionality which allows to look for the right standard element.
Moreover, **My E+G** area allows to download 2D and 3D CAD drawings, ask for quotations and manage personal favourites list!

2D & 3D CAD drawings in your required format

News Extra contents regarding products, applications and corporate highlights

Newsletter Subscribe to the newsletter and stay tuned about new products and interesting technical details

Videos and 3D animations To deepen applications, technical features and usage of ELESA+GANTER products

HOW TO SELECT A PRODUCT

A quick guide to use at the best ELESA+GANTER General Catalogue.

1. General index
to select a product group

GENERAL INDEX

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Spoked handwheels
Solid handwheels
Arm handwheels
Crank handles

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Star knobs
Knurled knobs
Wing knobs

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6 Control elements page 590
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Control knobs
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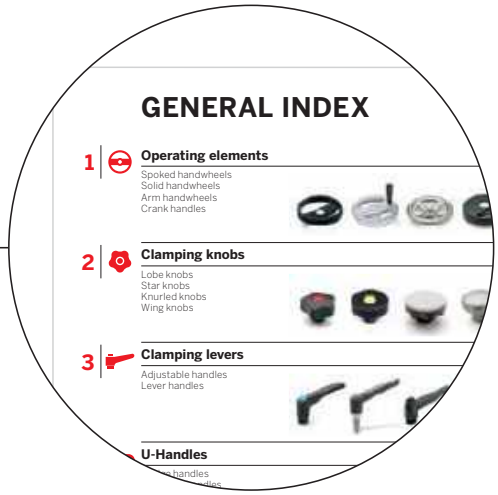
Ball-type levels

7 Rotary controls page 686
Steady indicators
Graduated indicators
Directional indicators
Handwheels with indicator

8 Indexing elements page 736
Indexing plungers
Locking plungers
Latches
Cam action indexing plungers

9 Machine elements page 910
Ball Rails, Ball Slide Rails, Ball Slide Units
Positioning elements
Guiding and locking elements
Turn locking fittings
Hinges
Lifting accessories


GENERAL INDEX

1 Operating elements
Spoked handwheels
Solid handwheels
Arm handwheels
Crank handles

2 Clamping knobs
Lobe knobs
Star knobs
Knurled knobs
Wing knobs

3 Clamping levers
Adjustable handles
Lever handles

U-Handles

2. Pictorial index
to select a product series

1 OPERATING ELEMENTS 1/5

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VRTP+I Spoked handwheels Revolving handle Technopolymer page 122
VRTP+IEL Spoked handwheels Revolving handle "Soft-touch" Technopolymer page 122
VRTP+IR Spoked handwheels Fold-away handle Technopolymer page 122
VRTP-P+I-SST Spoked handwheels with solid section Revolving handle Technopolymer page 124
VRTP-P+IR-SST Spoked handwheels with solid section Fold-away handle Technopolymer page 124
GN 924-A Spoked handwheels without handle Aluminium, plastic coated page 126
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GN 924.3 Handwheels with retractable handle Aluminium, Handle locked page 127
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GN 322-A Spoked handwheels without handle Aluminium, blank, rim polished page 130
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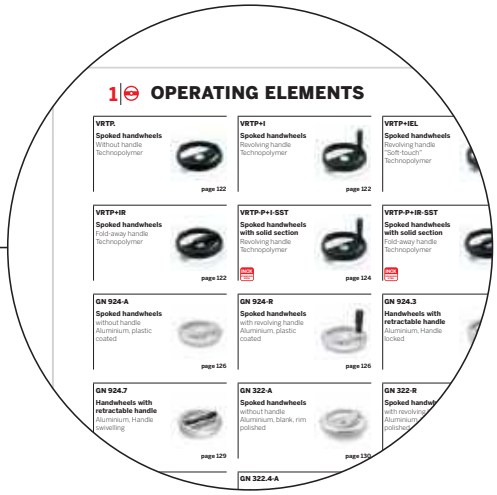
GN 324-A Spoked handwheels without handle Aluminium, plastic coated page 132
GN 324-R Spoked handwheels with revolving handle Aluminium, plastic coated page 132
GN 324.4-A Spoked handwheels without handle Aluminium, blank, rim polished page 133
GN 324.4-R Spoked handwheels with revolving handle Aluminium, polished page 133
VRTP Spoked handwheels Without handle Technopolymer Cast iron hub page 134


1 OPERATING ELEMENTS

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VRTP+I Spoked handwheels Revolving handle Technopolymer page 122
VRTP+IEL Spoked handwheels Revolving handle "Soft-touch" Technopolymer
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GN 924-R Spoked handwheels with revolving handle Aluminium, plastic coated page 126
GN 924.3 Handwheels with retractable handle Aluminium, Handle locked
GN 924.7 Handwheels with retractable handle Aluminium, Handle swivelling page 129
GN 322-A Spoked handwheels without handle Aluminium, blank, rim polished page 130
GN 322-R Spoked handwheels with revolving Aluminium, polished
GN 322.4-A

3. Product data sheet
Containing technical features, mounting instructions, available executions and how to select a product code

VRTP.
Spoked handwheels
Technopolymer
MATERIAL
BOSS-CAP
STANDARD EXECUTIONS
SPECIAL EXECUTIONS ON REQUEST
ACCESSORIES ON REQUEST

VRTP.
Spoked handwheels
Technopolymer
MATERIAL
High-resilience polypropylene based (PP) technopolymer, black colour, matte finish.
BOSS-CAP
Anodized aluminium self-adhesive front plate.
VRTP.375 cover in polyester based technopolymer (PBT), RAL 7035 grey colour, glossy finish, press-fit assembly.
STANDARD EXECUTIONS
Black-oxide steel boss, H7 reamed hole.
- VRTP.: without handle.
- VRTP+I: with revolving handle I.621+x (see page 576) in technopolymer.
- VRTP+IEL: with revolving handle IEL+x-SOFT (see page 572) in technopolymer coated with "Soft touch" thermoplastic elastomer (TPE).
- VRTP+IR: with fold-away handle IR.620 (see page 584) in technopolymer.
SPECIAL EXECUTIONS ON REQUEST
Bosses with hole and keyway in compliance with DIN 6885/1 tolerance P9 (see page A16).
To order the handwheel with keyway add the index -K after the code and the description (i.e. 7841.1-R-K VRTP.80 A-R-K).
ACCESSORIES ON REQUEST
- Axial retaining washer GN 184 (see page 971).
- Technopolymer boss cap in one of the Ergostyle colours, matte finish, available for VRTP.125, VRTP.160 and VRTP.200 (see ECB table).
VRTP.
Description | Boss cap for
ECB.12-* | VRTP.125
ECB.16-* | VRTP.160
ECB.20-* | VRTP.200

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DESIGNED
FOR ENGINEERING

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Solid handwheels
Arm handwheels
Crank handles

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Joints

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Power clamps
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15 **Accessories for hydraulic systems** page 1662

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Rubber wheels
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Rod-shaped
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Raw magnets

Technical data A1

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DESIGNED
FOR ENGINEERING

1 Operating elements

Spoked handwheels

Solid handwheels

Arm handwheels

Crank handles

RoHS PP PA +80° 0°

Spoked handwheels

Technopolymer

MATERIAL
High-resilience polypropylene based (PP) technopolymer, black colour, matte finish.

BOSS-CAP
Anodised aluminium self-adhesive front plate.
VRTP. 375: cover in polyester based technopolymer (PBT), RAL 7035 grey colour, glossy finish, press-fit assembly.

STANDARD EXECUTIONS
Black-oxide steel boss, H7 reamed hole.
- **VRTP.:** without handle.
- **VRTP+I:** with revolving handle I.621+x (see page 576) in technopolymer.
- **VRTP+IEL:** with revolving handle IEL+x-SOFT (see page 572) in technopolymer coated with "Soft touch" thermoplastic elastomer (TPE).
- **VRTP+IR:** with fold-away handle IR.620 (see page 584) in technopolymer.

SPECIAL EXECUTIONS ON REQUEST
Bosses with hole and keyway in compliance with DIN 6885/1 tolerance P9 (see page A16).
To order the handwheel with keyway add the index -K after the code and the description (i.e. 78411-R-K VRTP.80 A-8-K).

ACCESSORIES ON REQUEST
- Axial retaining washer GN 184 (see page 971).
- Technopolymer boss cap in one of the Ergostyle colours, matte finish, available for VRTP.125, VRTP.160 and VRTP.200 (see ECB table).

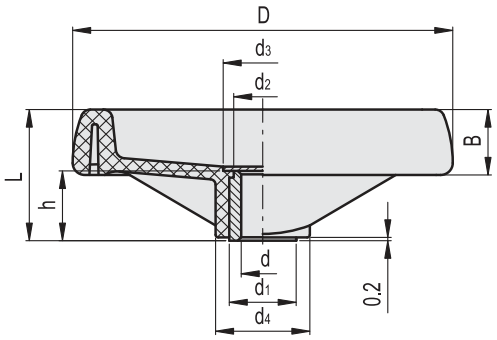
ELESA Original design

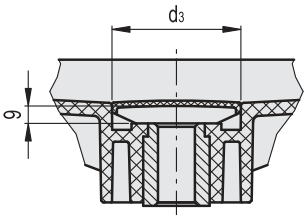
Code	Description	Boss cap for
29552-*	ECB.T2-*	VRTP.125
29553-*	ECB.T3-*	VRTP.160
29554-*	ECB.T4-*	VRTP.200

* Complete with colour index (C1, ..., C6).

C1 RAL7021 C2 RAL2004 C3 RAL7035 C4 RAL1021 C5 RAL5024 C6 RAL3000

VRTP.





VRTP.375

VRTP.

Code	Description	D	dH7	L	B	d1	d2	d3	d4	h	C# [Nm]	L# [J]	⚖
78411-R	VRTP.80 A-8	80	8	35	18	18	16	20.5	25	17	32	5	74
78412-R	VRTP.80 A-10	80	10	35	18	18	16	20.5	25	17	32	5	70
78510-R	VRTP.100 A-8	99	8	37	20	18	16	20.5	25.5	17	54	7	105
78511-R	VRTP.100 A-10	99	10	37	20	18	16	20.5	25.5	17	54	7	100
78512-R	VRTP.100 A-12	99	12	37	20	18	16	20.5	25.5	17	54	7	95
78610-R	VRTP.125 A-8	125	8	44	22	22	20	26	31	22	94	10	165
78611-R	VRTP.125 A-12	125	12	44	22	22	20	26	31	22	94	10	160
78612-R	VRTP.125 A-14	125	14	44	22	22	20	26	31	22	94	10	155
78710-R	VRTP.160 A-8	160	8	51	25	26	24	32	40	27	185	15	282
78711-R	VRTP.160 A-14	160	14	51	25	26	24	32	40	27	185	15	275
78712-R	VRTP.160 A-16	160	16	51	25	26	24	32	40	27	185	15	263
78810-R	VRTP.200 A-8	200	8	61	28	30	28	36	48.5	34	300	24	490
78811-R	VRTP.200 A-16	200	16	61	28	30	28	36	48.5	34	300	24	460
78813-R	VRTP.200 A-20	200	20	61	28	30	28	36	48.5	34	300	24	430
78911-R	VRTP.250 A-20	250	20	69	32	35	33	45	58	38	420	28	730
78913-R	VRTP.250 A-24	250	24	69	32	35	33	45	58	38	420	28	710
78948-R	VRTP.300 A-20	300	20	78	35.5	40	37	52	66	43	480	36	940
78951-R	VRTP.300 A-26	300	26	78	35.5	40	37	52	66	43	480	36	970
79011-R	VRTP.375 A-26	375	26	87	39	35	33	70	81	43	380	55	1350

For maximum torque (C) and impact strength (L) see Technical Data on page A3.

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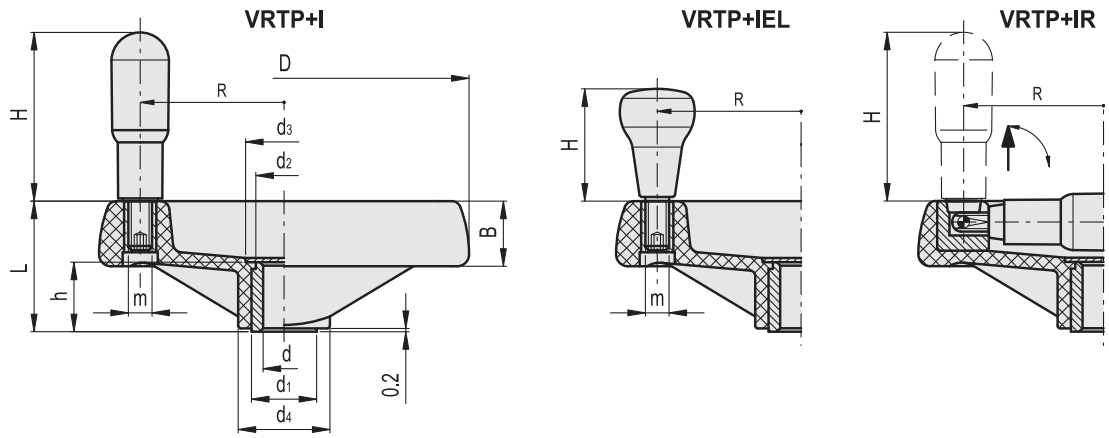
VRTP. | Spoked handwheels



VRTP+I

Code	Description	D	dH7	L	B	d1	d2	d3	d4	h	H	m	R	C# [Nm]	L# [J]	⚖
78421-R	VRTP.80+I A-8	80	8	35	18	18	16	20.5	25	17	45	M6	29	32	5	104
78422-R	VRTP.80+I A-10	80	10	35	18	18	16	20.5	25	17	45	M6	29	32	5	100
78520-R	VRTP.100+I A-8	99	8	37	20	18	16	20.5	25.5	17	60	M6	37	54	7	150
78521-R	VRTP.100+I A-10	99	10	37	20	18	16	20.5	25.5	17	60	M6	37	54	7	145
78522-R	VRTP.100+I A-12	99	12	37	20	18	16	20.5	25.5	17	60	M6	37	54	7	140
78620-R	VRTP.125+I A-8	125	8	44	22	22	20	26	31	22	65	M8	48	94	10	250
78621-R	VRTP.125+I A-12	125	12	44	22	22	20	26	31	22	65	M8	48	94	10	245
78622-R	VRTP.125+I A-14	125	14	44	22	22	20	26	31	22	65	M8	48	94	10	240
78720-R	VRTP.160+I A-8	160	8	51	25	26	24	32	40	27	73	M8	65	185	15	363
78721-R	VRTP.160+I A-14	160	14	51	25	26	24	32	40	27	73	M8	65	185	15	356
78722-R	VRTP.160+I A-16	160	16	51	25	26	24	32	40	27	73	M8	65	185	15	339
78820-R	VRTP.200+I A-8	200	8	61	28	30	28	36	48.5	34	80	M8	84	300	24	579
78821-R	VRTP.200+I A-16	200	16	61	28	30	28	36	48.5	34	80	M8	84	300	24	552
78823-R	VRTP.200+I A-20	200	20	61	28	30	28	36	48.5	34	80	M8	84	300	24	525
78921-R	VRTP.250+I A-20	250	20	69	32	35	33	45	58	38	90	M10	103	420	28	904
78923-R	VRTP.250+I A-24	250	24	69	32	35	33	45	58	38	90	M10	103	420	28	888
78958-R	VRTP.300+I A-20	300	20	78	35.5	40	37	52	66	43	90	M10	127	480	36	1050
78961-R	VRTP.300+I A-26	300	26	78	35.5	40	37	52	66	43	90	M10	123	480	36	1111
79021-R	VRTP.375+I A-26	375	26	87	39	35	33	70	81	43	90	M10	160	380	55	1240

VRTP+IEL

Code	Description	D	dH7	L	B	d1	d2	d3	d4	h	H	m	R	C# [Nm]	L# [J]	⚖
78926-R	VRTP.250+IEL A-20	250	20	69	32	35	33	45	58	38	65	M10	103	420	28	914
78928-R	VRTP.250+IEL A-24	250	24	69	32	35	33	45	58	38	65	M10	103	420	28	818
78964-R	VRTP.300+IEL A-20	300	20	78	35.5	40	37	52	66	43	65	M10	127	480	36	1060
78966-R	VRTP.300+IEL A-26	300	26	78	35.5	40	37	52	66	43	65	M10	127	480	36	1121
79026-R	VRTP.375+IEL A-26	375	26	87	39	35	33	70	81	43	65	M10	160	380	55	1260

VRTP+IR

Code	Description	D	dH7	L	B	d1	d2	d3	d4	h	H	R	C# [Nm]	L# [J]	⚖
78431-R	VRTP.80+IR A-8	80	8	35	18	18	16	20.5	25	17	45	29	32	5	102
78432-R	VRTP.80+IR A-10	80	10	35	18	18	16	20.5	25	17	45	29	32	5	98
78530-R	VRTP.100+IR A-8	99	8	37	20	18	16	20.5	25.5	17	60	37	54	7	170
78531-R	VRTP.100+IR A-10	99	10	37	20	18	16	20.5	25.5	17	60	37	54	7	163
78532-R	VRTP.100+IR A-12	99	12	37	20	18	16	20.5	25.5	17	60	37	54	7	155
78630-R	VRTP.125+IR A-8	125	8	44	22	22	20	26	31	22	65	48	94	10	235
78631-R	VRTP.125+IR A-12	125	12	44	22	22	20	26	31	22	65	48	94	10	230
78632-R	VRTP.125+IR A-14	125	14	44	22	22	20	26	31	22	65	48	94	10	225
78730-R	VRTP.160+IR A-8	160	8	51	25	26	24	32	40	27	73	65	185	15	395
78731-R	VRTP.160+IR A-14	160	14	51	25	26	24	32	40	27	73	65	185	15	388
78732-R	VRTP.160+IR A-16	160	16	51	25	26	24	32	40	27	73	65	185	15	380
78830-R	VRTP.200+IR A-8	200	8	61	28	30	28	36	48.5	34	80	84	300	24	625
78831-R	VRTP.200+IR A-16	200	16	61	28	30	28	36	48.5	34	80	84	300	24	593
78833-R	VRTP.200+IR A-20	200	20	61	28	30	28	36	48.5	34	80	84	300	24	560
78931-R	VRTP.250+IR A-20	250	20	69	32	35	33	45	58	38	90	105	420	28	932
78933-R	VRTP.250+IR A-24	250	24	69	32	35	33	45	58	38	90	105	420	28	892
78968-R	VRTP.300+IR A-20	300	20	78	35.5	40	37	52	66	43	90	123	480	36	1080
78971-R	VRTP.300+IR A-26	300	26	78	35.5	40	37	52	66	43	90	123	480	36	1210
79031-R	VRTP.375+IR A-26	375	26	87	39	35	33	70	81	43	90	160	380	55	1350

For maximum torque (C) and impact strength (L) see Technical Data on page A3.

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VRTP-P-SST

INOX STAINLESS STEEL · RoHS · PP-FDA · PA-FDA · +80° 0°

Spoked handwheels with solid section

Technopolymer

ELESA Original design

MATERIAL
High-resilience polypropylene based (PP) technopolymer, black colour, matte finish.
Certified in compliance with FDA (U.S. Food and Drug Administration).

BOSS-CAP
AISI 304 stainless steel self-adhesive front plate (adhesive certified in compliance with FDA U.S. Food and Drug Administration).

STANDARD EXECUTIONS
AISI 304 stainless steel boss, H7 reamed hole.
- **VRTP-P+I-SST**: with revolving handle type I.621+x-SST in polyamide based (PA) technopolymer, certified in compliance with FDA.
- **VRTP-P+IR-SST**: with fold-away handle type IR.620 in polyamide based (PA) technopolymer, certified in compliance with FDA. AISI 304 stainless steel pin, bushing and internal components, AISI 316L stainless steel support.

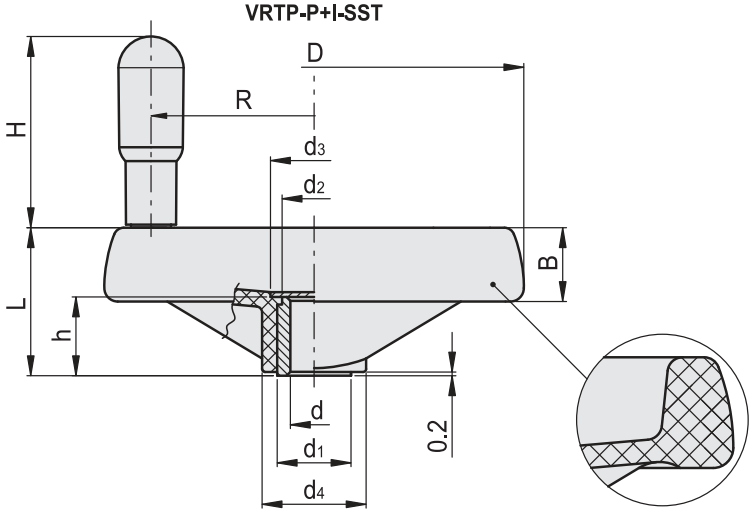
SPECIAL EXECUTIONS ON REQUEST
- Bosses with hole and keyway in compliance with DIN 6885/1 tolerance P9 (see page A16).

To order the handwheel with keyway add the index -K after the code and the description (i.e. 79111-K VRTP.80-P+I-SST-8-K).

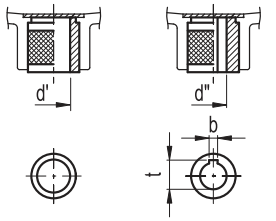
ACCESSORIES ON REQUEST
Axial retaining washer GN 184.5 (see page 971).

FEATURES AND APPLICATIONS
The solid rim of the handwheel allows the maximum cleaning thanks to the absence of rear recesses. For this reason, being the technopolymer polypropylene based and the metal components in AISI 304 stainless steel, this version of VRTP. handwheel is designed for applications in food, pharmaceutical and medical fields.

VRTP-P+I-SST



Solid rim without recesses maximum cleaning



d' Max diameter permissible

d" Max diameter for hole with keyway

VRTP-P+I-SST — **STAINLESS STEEL**

Code	Description	D	dH7	L	B	d1	d2	d3	d4	h	H	R	d'	d''	t	b	C# [Nm]	L# [J]	⚖
79111-R	VRTP.80-P+I-SST-8	80	8	35	18	18	16	20.5	25	17	45	29	14	10	11.4	3	32	5	104
79161-R	VRTP.100-P+I-SST-10	99	10	37	20	18	16	20.5	25.5	17	60	37	14	10	11.4	3	54	7	145
79211-R	VRTP.125-P+I-SST-12	125	12	44	22	22	20	26	31	22	65	48	18	12	13.8	4	94	10	245
79261-R	VRTP.160-P+I-SST-14	160	14	51	25	26	24	32	40	27	73	65	20	16	18.3	5	185	15	356
79311-R	VRTP.200-P+I-SST-16	200	16	61	28	30	28	36	50	34	80	84	24	18	20.8	6	300	24	552

For maximum applicable torque (C) and impact strength (L) see Technical Data on page A3.

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VRTP-P-SST | Spoked handwheels with solid section

Material suitable for food contact

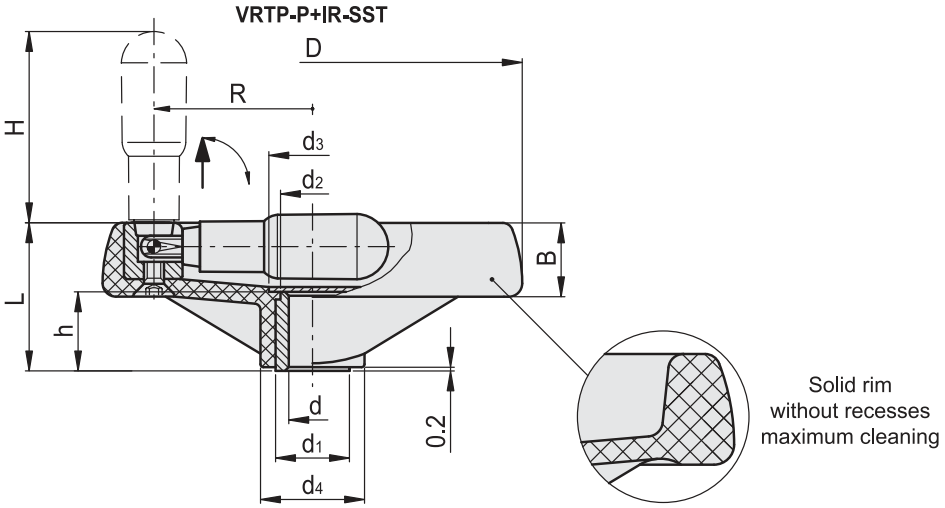
Technopolymer handwheel and handle.
Certified in compliance with FDA (U.S. Food and Drug Administration).

Corrosion resistance

1. AISI 304 stainless steel handwheel central boss
2. AISI 304 stainless steel revolving handle pin
3. AISI 304 stainless steel pin, bushing and internal components, AISI 316L stainless steel support

Easy cleaning

4. Solid rim
5. Hub without recesses



VRTP-P+IR-SST — **STAINLESS STEEL**

Code	Description	D	dH7	L	B	d1	d2	d3	d4	h	H	R	d'	d''	t	b	C# [Nm]	L# [J]	⚖
79121-R	VRTP.80-P+IR-SST-8	80	8	35	18	18	16	20.5	25	17	45	29	14	10	11.4	3	32	5	102
79171-R	VRTP.100-P+IR-SST-10	99	10	37	20	18	16	20.5	25.5	17	60	37	14	10	11.4	3	54	7	163
79221-R	VRTP.125-P+IR-SST-12	125	12	44	22	22	20	26	31	22	65	48	18	12	13.8	4	94	10	230
79271-R	VRTP.160-P+IR-SST-14	160	14	51	25	26	24	31	40	27	73	65	20	16	18.3	5	185	15	388
79321-R	VRTP.200-P+IR-SST-16	200	16	61	28	30	28	36	50	34	80	84	24	18	20.8	6	300	24	593

For maximum applicable torque (C) and impact strength (L) see Technical Data on page A3.

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RoHS

Spoked handwheels

Aluminium, plastic coated

SPECIFICATION

Types

- Type **A**: without handle
- Type **R**: with revolving handle

Bore codes

- Version **B**: without keyway
- Version **K**: with keyway

Aluminium pressure die casting

- Hub machined
- Rim turned
- plastic coated

black, RAL 9005, textured finish **SW**
silver, RAL 9006, textured finish **SR**

Rim concentric and square to bore < 0.4

Cylindrical Revolving handles GN 798.2 (see page 578)
Plastic, Technopolymer
black, matt

reddot design award

INFORMATION

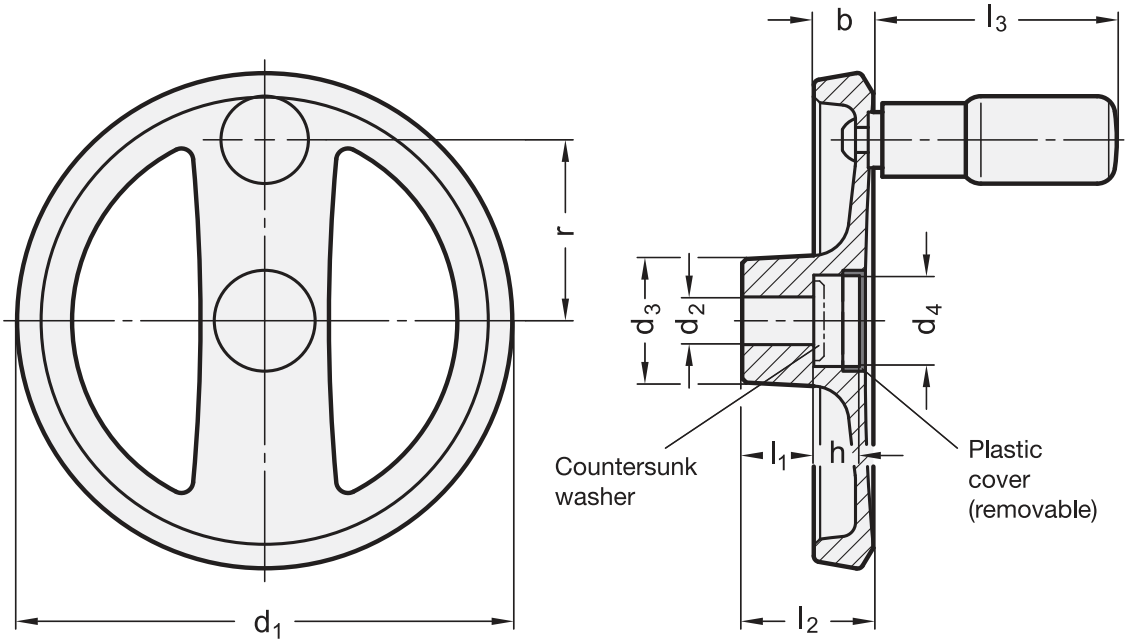
Spoked handwheels GN 924 are distinguished by modern design. The removable plastic cover shrouds the fixing components such as screws, countersunk washers as well as the shaft end.

ACCESSORY

- Countersunk washers GN 184 (see page 971) are to be ordered separately

TECHNICAL INFORMATION

- Keyway P9 DIN 6885 (see page A16)
- Cross holes GN 110 (see page A17)
- ISO-Fundamental Tolerances (see page A21)



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GN 924 | Spoked handwheels

*Complete with colour index of the Handwheels (SW or SR)

SW RAL9005 SR RAL9006

GN 924-A

Description	d1	d2 H7	d3	d4	b	h	l1	l2 ≈	Recommended countersunk washer	⚖
GN 924-125-B12-A-*	125	12	31	23	15	11	18	33.5	GN 184-20	255
GN 924-125-K12-A-*	125	12	31	23	15	11	18	33.5	GN 184-20	255
GN 924-125-B14-A-*	125	14	31	23	15	11	18	33.5	GN 184-20	250
GN 924-125-K14-A-*	125	14	31	23	15	11	18	33.5	GN 184-20	250
GN 924-140-B14-A-*	140	14	36	28.5	16.5	13	19	36.5	GN 184-25	340
GN 924-140-K14-A-*	140	14	36	28.5	16.5	13	19	36.5	GN 184-25	340
GN 924-140-B16-A-*	140	16	36	28.5	16.5	13	19	36.5	GN 184-25	340
GN 924-140-K16-A-*	140	16	36	28.5	16.5	13	19	36.5	GN 184-25	340
GN 924-160-B14-A-*	160	14	36	28.5	18	14.5	20	39.5	GN 184-25	460
GN 924-160-K14-A-*	160	14	36	28.5	18	14.5	20	39.5	GN 184-25	460
GN 924-160-B16-A-*	160	16	36	28.5	18	14.5	20	39.5	GN 184-25	460
GN 924-160-K16-A-*	160	16	36	28.5	18	14.5	20	39.5	GN 184-25	460
GN 924-200-B18-A-*	200	18	42	36	20.5	16	24	45.5	GN 184-32	730
GN 924-200-K18-A-*	200	18	42	36	20.5	16	24	45.5	GN 184-32	730
GN 924-200-B20-A-*	200	20	42	36	20.5	16	24	45.5	GN 184-32	730
GN 924-200-K20-A-*	200	20	42	36	20.5	16	24	45.5	GN 184-32	730

GN 924-R

Description	d1	d2 H7	d3	d4	b	h	l1	l2 ≈	l3 ≈	r	Ø Handle	Recommended countersunk washer	⚖
GN 924-125-B12-R-*	125	12	31	23	15	11	18	33.5	61.5	45.5	22	GN 184-20	340
GN 924-125-K12-R-*	125	12	31	23	15	11	18	33.5	61.5	45.5	22	GN 184-20	340
GN 924-125-B14-R-*	125	14	31	23	15	11	18	33.5	61.5	45.5	22	GN 184-20	340
GN 924-125-K14-R-*	125	14	31	23	15	11	18	33.5	61.5	45.5	22	GN 184-20	340
GN 924-140-B14-R-*	140	14	36	28.5	16.5	13	19	36.5	76.5	52	24	GN 184-25	450
GN 924-140-K14-R-*	140	14	36	28.5	16.5	13	19	36.5	76.5	52	24	GN 184-25	440
GN 924-140-B16-R-*	140	16	36	28.5	16.5	13	19	36.5	76.5	52	24	GN 184-25	450
GN 924-140-K16-R-*	140	16	36	28.5	16.5	13	19	36.5	76.5	52	24	GN 184-25	440
GN 924-160-B14-R-*	160	14	36	28.5	18	14.5	20	39.5	76.5	61	24	GN 184-25	560
GN 924-160-K14-R-*	160	14	36	28.5	18	14.5	20	39.5	76.5	61	24	GN 184-25	560
GN 924-160-B16-R-*	160	16	36	28.5	18	14.5	20	39.5	76.5	61	24	GN 184-25	570
GN 924-160-K16-R-*	160	16	36	28.5	18	14.5	20	39.5	76.5	61	24	GN 184-25	570
GN 924-200-B18-R-*	200	18	42	36	20.5	16	24	45.5	85	77.5	25	GN 184-32	890
GN 924-200-K18-R-*	200	18	42	36	20.5	16	24	45.5	85	77.5	25	GN 184-32	890
GN 924-200-B20-R-*	200	20	42	36	20.5	16	24	45.5	85	77.5	25	GN 184-32	880
GN 924-200-K20-R-*	200	20	42	36	20.5	16	24	45.5	85	77.5	25	GN 184-32	880

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RoHS

Handwheels with retractable handle

Aluminium, Handle locked

SPECIFICATION

Type
- Type **R**: with retractable handle

Bore codes
- Version **B**: without keyway
- Version **K**: with keyway

Aluminium pressure die casting
- Hub machined
- Rim turned
- plastic coated

black, RAL 9005, textured finish **SW**
silver, RAL 9006, textured finish **SR**

Rim concentric and square to bore < 0.4

Retractable handles GN 798.3 (see page 586)
Plastic, Technopolymer
black, matt

Retracting mechanism
Steel, blackened

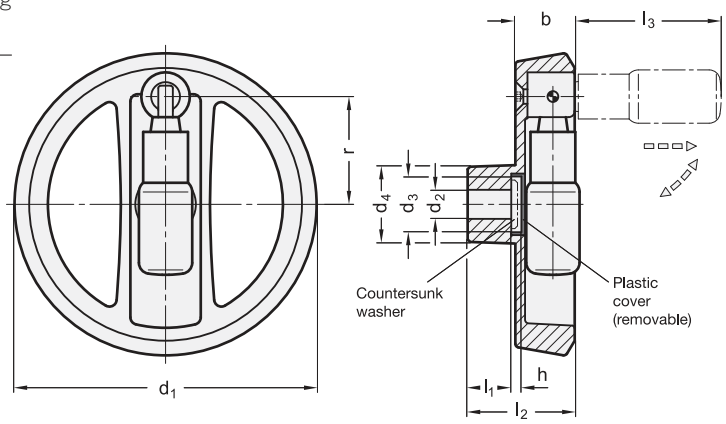
reddot design award

INFORMATION

The handle in these handwheels is locked in a conical bore in the operating position.
For reversal, it must first be pulled from the cone in axial direction.
A pressure spring holds the handle in both positions. When swung out, it automatically engages again.

TECHNICAL INFORMATION

- Keyway DIN 6885 (see page A16)
- Cross holes GN 110 (see page A17)
- ISO-Fundamental Tolerances (see page A21)



*Complete with colour index of the Handwheels (SW or SR)

SW RAL9005 SR RAL9006

GN 924.3

Description	d1	d2 H7	d3	d4	b	h	l1	l2 ≈	l3 ≈	r ≈	Ø Handle	Recommended countersunk washer	⚖
GN 924.3-125-B12-R-*	125	12	23	31	24.5	4	18	45	60.5	45.5	22	GN 184-22	465
GN 924.3-125-K12-R-*	125	12	23	31	24.5	4	18	45	60.5	45.5	22	GN 184-22	465
GN 924.3-125-B14-R-*	125	14	23	31	24.5	4	18	45	60.5	45.5	22	GN 184-22	450
GN 924.3-125-K14-R-*	125	14	23	31	24.5	4	18	45	60.5	45.5	22	GN 184-22	450
GN 924.3-140-B14-R-*	140	14	23	36	26	4	19	47	75.5	52	24	GN 184-22	600
GN 924.3-140-K14-R-*	140	14	23	36	26	4	19	47	75.5	52	24	GN 184-22	590
GN 924.3-160-B14-R-*	160	14	23	36	26	4	20	48	75.5	61	24	GN 184-22	700
GN 924.3-160-K14-R-*	160	14	23	36	26	4	20	48	75.5	61	24	GN 184-22	690
GN 924.3-140-B16-R-*	140	16	23	36	26	4	19	47	75.5	52	24	GN 184-22	600
GN 924.3-140-K16-R-*	140	16	23	36	26	4	19	47	75.5	52	24	GN 184-22	590
GN 924.3-160-B16-R-*	160	16	23	36	26	4	20	48	75.5	61	24	GN 184-22	700
GN 924.3-160-K16-R-*	160	16	23	36	26	4	20	48	75.5	61	24	GN 184-22	690
GN 924.3-200-B18-R-*	200	18	23	42	27	4	24	53	85.5	80.5	25	GN 184-22	900
GN 924.3-200-K18-R-*	200	18	23	42	27	4	24	53	85.5	80.5	25	GN 184-22	890
GN 924.3-200-B20-R-*	200	20	23	42	27	4	24	53	85.5	80.5	25	GN 184-22	1060
GN 924.3-200-K20-R-*	200	20	23	42	27	4	24	53	85.5	80.5	25	GN 184-22	1000

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GN 924.7

Handwheels with retractable handle

Aluminium, Handle swivelling

reddot design award

SPECIFICATION

Type
- Type **R**: with retractable handle

Bore codes
- Version **B**: without keyway
- Version **K**: with keyway

Aluminium pressure die casting
- Hub machined
- Rim turned
- plastic coated

black, RAL 9005, textured finish **SW**
silver, RAL 9006, textured finish **SR**

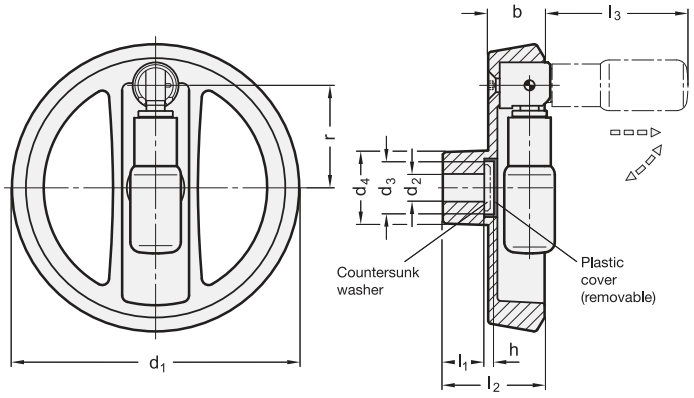
Rim concentric and square to bore < 0.4

Safety retractable handles GN 798.7 (see page 587)
Plastic, Technopolymer
black, matt

Retracting mechanism
Steel, blackened

INFORMATION

Retractable handwheels GN 924.7 are distinguished by modern design.
These spoked handwheels are suitable for applications where the handle must not remain in the operating position.
In order to bring the handle into this position it has to be turned first through 90° to a stop against a torsion spring and then it is pushed against spring pressure into its hold position. By maintaining the forward thrust on the handle the handwheel can easily be rotated.
When releasing the handle the springs returns it back to the retracted position.



*Complete with colour index of the Handwheels (SW or SR)

SW RAL9005 SR RAL9006

GN 924.7

Description	d1	d2 H7	d3	d4	b	h	l1	l2 ≈	l3 ≈	r ≈	Ø Handle	Recommended countersunk washer	⚖
GN 924.7-125-B12-R-*	125	12	23	31	24.5	4	18	45	62	45.5	22	GN 184-22	460
GN 924.7-125-K12-R-*	125	12	23	31	24.5	4	18	45	62	45.5	22	GN 184-22	460
GN 924.7-125-B14-R-*	125	14	23	31	24.5	4	18	45	62	45.5	22	GN 184-22	450
GN 924.7-125-K14-R-*	125	14	23	31	24.5	4	18	45	62	45.5	22	GN 184-22	450
GN 924.7-140-B14-R-*	140	14	23	36	26	4	19	47	77.5	52	24	GN 184-22	580
GN 924.7-140-K14-R-*	140	14	23	36	26	4	19	47	77.5	52	24	GN 184-22	580
GN 924.7-160-B14-R-*	160	14	23	36	26	4	20	48	77.5	61	24	GN 184-22	700
GN 924.7-160-K14-R-*	160	14	23	36	26	4	20	48	77.5	61	24	GN 184-22	700
GN 924.7-140-B16-R-*	140	16	23	36	26	4	19	47	77.5	52	24	GN 184-22	590
GN 924.7-140-K16-R-*	140	16	23	36	26	4	19	47	77.5	52	24	GN 184-22	590
GN 924.7-160-B16-R-*	160	16	23	36	26	4	20	48	77.5	61	24	GN 184-22	710
GN 924.7-160-K16-R-*	160	16	23	36	26	4	20	48	77.5	61	24	GN 184-22	700
GN 924.7-200-B18-R-*	200	18	23	42	27	4	24	53	87.5	80.5	25	GN 184-22	1050
GN 924.7-200-K18-R-*	200	18	23	42	27	4	24	53	87.5	80.5	25	GN 184-22	1050
GN 924.7-200-B20-R-*	200	20	23	42	27	4	24	53	87.5	80.5	25	GN 184-22	1035
GN 924.7-200-K20-R-*	200	20	23	42	27	4	24	53	87.5	80.5	25	GN 184-22	1035

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Spoked handwheels

Aluminium, blank, rim polished

SPECIFICATION

Types

- Type **A**: without handle
- Type **R**: with revolving handle

Bore codes

- Version **B**: without keyway
- Version **K**: with keyway

Aluminium

- Hub machined
- Rim turned

Rim concentric and square to bore < 0.4

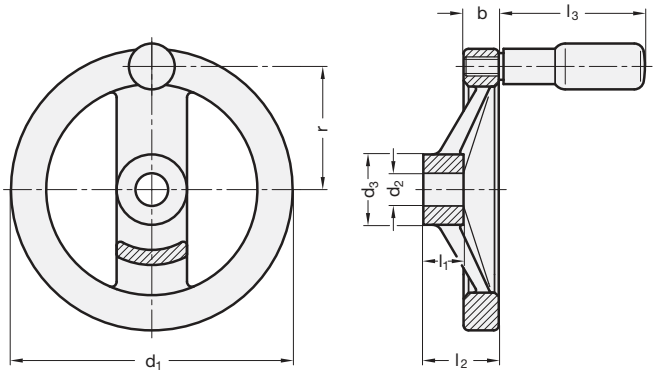
Wheel body

- Rim high-polished
- unmachined body matt shot-blasted

Cylindrical Revolving handles GN 798 (see page 577)
Plastic, Technopolymer
black, matt

TECHNICAL INFORMATION

- Keyway P9 DIN 6885 (see page A16)
- Cross holes GN 110 (see page A17)
- ISO-Fundamental Tolerances (see page A21)



*Complete with Bore codes of the Handwheel (B or K)

B	K
without keyway	with keyway

GN 322-A

Description	d1	d2 H7	d3	b	l1	l2	⚖
GN 322-125-*12-A	125	12	31	15	18	33	311
GN 322-125-*14-A	125	14	31	15	18	33	308
GN 322-140-*14-A	140	14	36	16.5	19	36	411
GN 322-140-*16-A	140	16	36	16.5	19	36	394
GN 322-160-*14-A	160	14	36	18	20	39	539
GN 322-160-*16-A	160	16	36	18	20	39	530
GN 322-200-*18-A	200	18	42	20.5	24	45	892
GN 322-200-*20-A	200	20	42	20.5	24	45	885
GN 322-250-*22-A	250	22	48	23	28	51	1478
GN 322-250-*26-A	250	26	48	23	28	51	1454

GN 322-R

Description	d1	d2 H7	d3	b	l1	l2	l3	r	Ø Handle	⚖
GN 322-125-*12-R	125	12	31	15	18	33	61.5	54	22	396
GN 322-125-*14-R	125	14	31	15	18	33	61.5	54	22	393
GN 322-140-*14-R	140	14	36	16.5	19	36	76.5	61	24	411
GN 322-140-*16-R	140	16	36	16.5	19	36	76.5	61	24	405
GN 322-160-*14-R	160	14	36	18	20	39	76.5	71	24	613
GN 322-160-*16-R	160	16	36	18	20	39	76.5	71	24	610
GN 322-200-*18-R	200	18	42	20.5	24	45	86.5	89	25	1017
GN 322-200-*20-R	200	20	42	20.5	24	45	86.5	89	25	1010
GN 322-250-*22-R	250	22	48	23	28	51	86.5	113	25	1603
GN 322-250-*26-R	250	26	48	23	28	51	86.5	113	25	1579

Weight type B

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GN 322.3

Handwheels with rectractable handle

Aluminium, Handle locked

SPECIFICATION

Type

- Type **R**: with retractable handle

Bore codes

- Version **B**: without keyway
- Version **K**: with keyway

Aluminium

- Hub machined
- Rim turned and polished
- Unmachined body matt shot-blasted

Rim concentric and square to bore < 0.4

Retractable handles GN 798.3 (see page 586)
Plastic, Technopolymer
black, matt

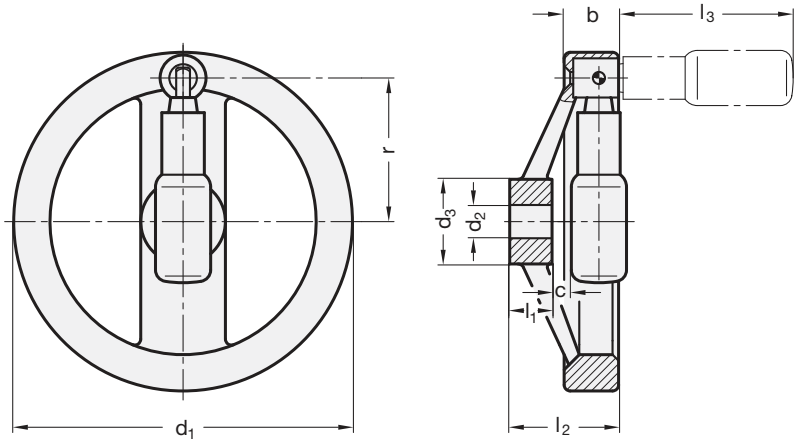
Retracting mechanism
Steel, blackened

INFORMATION

The handle in the handwheels GN 322.3 is locked in a conical bore in the operating position.
For reversal, it must first be pulled from the cone in axial direction. A pressure spring holds the handle in both positions. When swung out, it automatically engages again.

TECHNICAL INFORMATION

- Keyway P9 DIN 6885 (see page A16)
- Cross holes GN 110 (see page A17)
- ISO-Fundamental Tolerances (see page A21)



GN 322.3

Description	d1	d2 H7	d3	b	c	l1	l2	l3	r	Ø Handle	⚖
GN 322.3-125-B12-R	125	12	31	24.5	6.5	18	44	60	50	22	390
GN 322.3-125-K12-R	125	12	31	24.5	6.5	18	44	60	50	22	390
GN 322.3-140-B14-R	140	14	36	24.5	6	19	45.5	75	57.5	24	541
GN 322.3-140-K14-R	140	14	36	24.5	6	19	45.5	75	57.5	24	541
GN 322.3-160-B14-R	160	14	36	25	6.5	20	47	75	67.5	24	653
GN 322.3-160-K14-R	160	14	36	25	6.5	20	47	75	67.5	24	653
GN 322.3-160-B16-R	160	16	36	25	6.5	20	47	75	67.5	24	649
GN 322.3-160-K16-R	160	16	36	25	6.5	20	47	75	67.5	24	649
GN 322.3-200-B18-R	200	18	42	25	7.5	24	52.5	85	84	25	954
GN 322.3-200-K18-R	200	18	42	25	7.5	24	52.5	85	84	25	954
GN 322.3-200-B20-R	200	20	42	25	7.5	24	52.5	85	84	25	949
GN 322.3-200-K20-R	200	20	42	25	7.5	24	52.5	85	84	25	949
GN 322.3-250-B22-R	250	22	48	26.5	12	28	61	85	111	25	1364
GN 322.3-250-K22-R	250	22	48	26.5	12	28	61	85	111	25	1364

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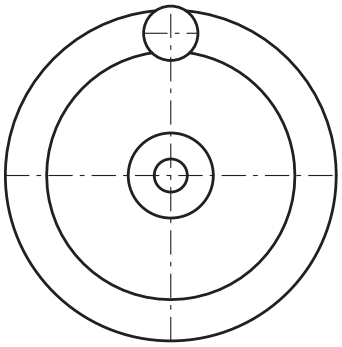
Safety handwheels

Overview of types

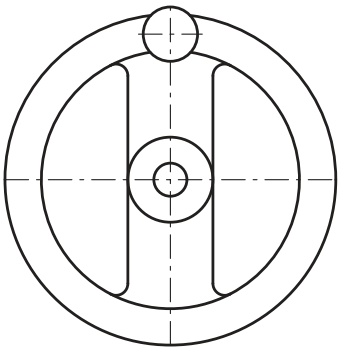
DISC HANDWHEELS GN 321 (see page 172)
Aluminium
Rim polished

Cylindrical revolving handles GN 598 (see page 573)
Steel
plastic coated
black, textured finish



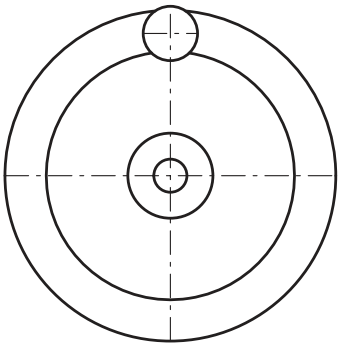
SPOKED HANDWHEELS GN 322 (see page 130)
Aluminium
Rim polished

Cylindrical revolving handles GN 598 (see page 573)
Steel
plastic coated
black, textured finish



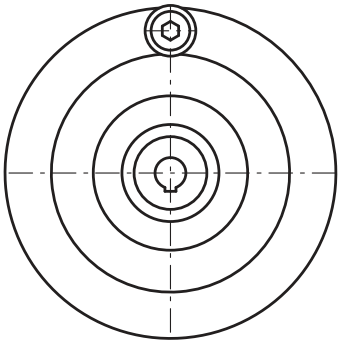
DISC HANDWHEELS GN 323 (see page 174)
Aluminium
plastic coated
black, textured finish

Cylindrical revolving handles GN 598 (see page 573)
Steel
plastic coated
black, textured finish



SAFETY SOLID HANDWHEELS VDN.FP+I+ST (see page 166)
Duroplast

Revolving handles I.301+x (see page 574)
Duroplast



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Safety handwheels

Instruction - Application guide

The relevant health and safety at work provisions state that handwheels must be attached to spindles such that they are not turned along together with the machine drive assembly. Safety handwheels meet this requirement:

- If not in operation, the wheel is disengaged. Shifting it in axial direction (pushing or pulling) will intermesh two serrated bushings, formlocking the wheel with the shaft.
- After releasing, the wheel will disengage again automatically.

A number of user notices for various design types are listed below. These notices are non-binding and given without liability. They do not constitute a warranty of proper function. The user must in any case determine whether the safety handwheels are suitable for the intended purpose and use.

1. Safety handwheels with coupling attachment GN 000.4 (friction bearing)

All coupling elements are housed in an enclosed component known as coupling attachment. It is designed such that it can be installed in all current types of handwheels and also in other machine elements.

Optionally, the same coupling attachment can be mounted in the handwheel such that the axial movement for dis-engagement is either “pulling” or “pushing” for disengaging. The “pushing” version is safer in terms of health and safety at work because the risk of inadvertent engagement is lower.

Type A (without handle)

As there is no unbalance (handle), this handwheel will also turn along with the drive, but it can be stopped by hand.

With the wheel moving along, the bearing is not put under excessive strain, with the effect that this type is particularly suitable for continuous operation. At higher speeds, the unbalanced handwheel may cause vibrations, however. Also, the friction heat which develops when braking the wheel must be kept in mind.

Type D (with handle)

The handle (unbalance) causes the disengaged handwheel to stop while the shaft is turning. Owing to the type of construction and bearing design of these couplings, the use of these handwheels is usually limited to relatively slow-turning spindle speeds or spindle speeds running at higher speed for short periods. A high risk of dirt deposits (grinding dust) and dry-running can limit the user options even further.

If the handwheel and its handle are deliberately or inadvertently set in (concurrent) motion while the shaft is turning, bearing friction may cause the wheel to turn permanently. At higher speeds, this may cause vibrations and, considering the rotating mass of the handle, can result in injuries also if disengaged. This risk / operating status must therefore be avoided at all cost.

Coupling attachments GN 000.4 (see page 184)
Safety handwheels GN 321.4 (see page 178)

2. Safety handwheels with coupling attachment GN 000.5 (needle bearing)

The details given under 1. above apply in principle also to these safety handwheels.

With their needle bearings, they have the advantage over friction bearings that they can be used for somewhat higher speeds due to their substantially lower friction, lower wear and tear and lower sensitivity to lubrication.

Owing to their larger construction length and lower friction (hardened contact surfaces) and finer intermeshing, these wheels are also easier to engage.

Coupling attachments GN 000.5 (see page 185)
Safety handwheels GN 321.5 (see page 179) and VDN.FP+I+ST (see page 166)

3. Safety handwheels with hub cap GN 321.6

These handwheels are an advance development of the safety handwheels with coupling attachment GN 000.5 (needle bearing).

The coupling elements have been specially developed for this type of handwheel and are therefore not intended for general use. Also, they are only intended for the “pulling” mode of engagement.

The user notices listed under 1. and/or 2. above also apply here. Owing to their type of construction, especially the cap, these handwheels are largely protected from dirt.

Safety handwheels GN 321.6 (see page 180)

4. Safety handwheels with fixed bearing flange GN 327

The safety handwheels described under 1. to 3. above are characterised by the fact that they require no special machine-side measures for attaching. They are simply pushed over the shaft. However, the inevitable bearing friction generates a link between shaft and handwheel which needs to be kept in mind as specified above.

For applications with very high rotary speed, ultimate levels of safety at work and under continuous operation, the safety handwheel with fixed bearing flange is the best possible solution. The separate bearing configuration means that the user notices given for types 1. to 3. do not apply.

However, this safety handwheel is more complex, with a number of requirements to be met at the machine side.

Safety handwheels GN 327 (see page 182)

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Safety handwheels

with friction bearing

SPECIFICATION

Types

- Type **A**: without handle
- Type **D**: with revolving steel handle

Coding

- Version **ZI**: engage by pulling
- Version **DR**: engage by pushing

Aluminium

- Hub machined
- Rim turned

Rim concentric and square to bore < 0.4

Wheel body

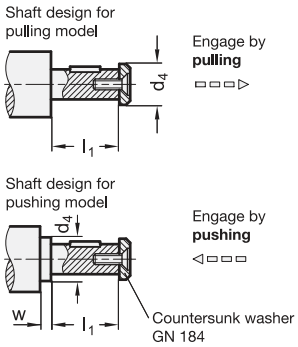
- Rim high-polished
- unmachined body matt shot-blasted

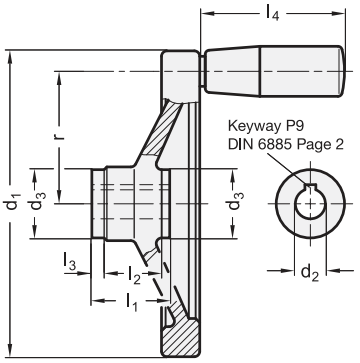
Cylindrical Revolving handles GN 598 (see page 573)
Steel, plastic coated, black, matt

INFORMATION

The use of coupling attachments in handwheels other than specified is also possible.

- Instructions for safety handwheels (see page 133)





*Complete with Coding of the Handwheels (ZI or DR)

ZI	DR
Engage by pulling	Engage by pushing

GN 322.4-A

Description	d1	d2 H7	d3	d4 max.	l1 max.	l2	l3	w min.	Coupling	⚖
GN 322.4-125-K12-A-*	125	K 12	28	17	28.5	18	5	4	GN 000.4-1	368
GN 322.4-140-K12-A-*	140	K 12	28	17	28.5	19	5	4	GN 000.4-1	505
GN 322.4-140-K14-A-*	140	K 14	32	21	32.5	19	6	4	GN 000.4-2	499
GN 322.4-140-K16-A-*	140	K 16	32	21	32.5	19	6	4	GN 000.4-2	486
GN 322.4-160-K14-A-*	160	K 14	32	21	32.5	20	6	4	GN 000.4-2	615
GN 322.4-160-K16-A-*	160	K 16	32	21	32.5	20	6	4	GN 000.4-2	602
GN 322.4-200-K18-A-*	200	K 18	38	26	36.5	24	6	4	GN 000.4-3	1032
GN 322.4-200-K20-A-*	200	K 20	38	26	36.5	24	6	4	GN 000.4-3	1015
GN 322.4-250-K22-A-*	250	K 22	45	30	47.5	28	12	4	GN 000.4-4	1740

GN 322.4-D

Description	d1	d2 H7	d3	d4 max.	l1 max.	l2	l3	l4 ≈	r	w min.	Ø Handle	Coupling	⚖
GN 322.4-125-K12-D-*	125	K 12	28	17	28.5	18	5	67.5	54	4	23	GN 000.4-1	552
GN 322.4-140-K12-D-*	140	K 12	28	17	28.5	19	5	67.5	61	4	23	GN 000.4-1	660
GN 322.4-140-K14-D-*	140	K 14	32	21	32.5	19	6	67.5	61	4	23	GN 000.4-2	640
GN 322.4-140-K16-D-*	140	K 16	32	21	32.5	19	6	67.5	61	4	23	GN 000.4-2	620
GN 322.4-160-K14-D-*	160	K 14	32	21	32.5	20	6	82.5	71	4	26	GN 000.4-2	907
GN 322.4-160-K16-D-*	160	K 16	32	21	32.5	20	6	82.5	71	4	26	GN 000.4-2	894
GN 322.4-200-K18-D-*	200	K 18	38	26	36.5	24	6	82.5	89	4	26	GN 000.4-3	1324
GN 322.4-200-K20-D-*	200	K 20	38	26	36.5	24	6	82.5	89	4	26	GN 000.4-3	1307
GN 322.4-250-K22-D-*	250	K 22	45	30	47.5	28	12	82.5	113	4	28	GN 000.4-4	2122

Weight coding ZI

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GN 322.5

Safety handwheels

with needle bearing

SPECIFICATION

Types

- Type **A**: without handle
- Type **D**: with revolving steel handle

Coding

- Version **ZI**: engage by pulling
- Version **DR**: engage by pushing

Aluminium

- Hub machined
- Rim turned

Rim concentric and square to bore < 0.4

Wheel body

- Rim high-polished
- unmachined body matt shot-blasted

Cylindrical Revolving handles GN 598 (see page 573)
Steel, plastic coated
black, matt

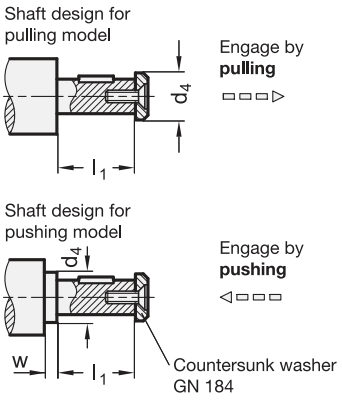
INFORMATION

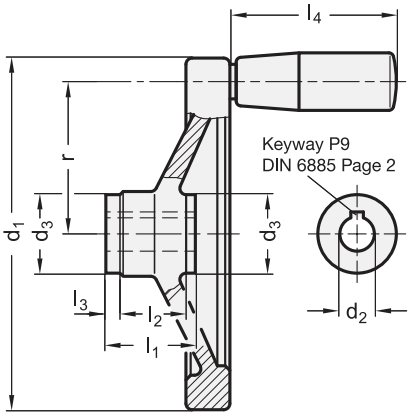
The use of coupling attachments in handwheels other than specified is also possible.

- Instructions for safety handwheels (see page 133)

TECHNICAL INFORMATION

- Keyway DIN 6885 (see page A16)
- ISO-Fundamental Tolerances (see page A21)





*Complete with Coding of the Handwheels (ZI or DR)

ZI Engage by pulling
DR Engage by pushing

GN 322.5-A

Description	d1	d2 H7	d3	d4 max.	l1 max.	l2	l3	w min.	Coupling	⚖
GN 322.5-125-K12-A-*	125	K 12	29	17	42	18	12	4	GN 000.5-1	414
GN 322.5-140-K12-A-*	140	K 12	29	17	42	19	12	4	GN 000.5-1	522
GN 322.5-140-K14-A-*	140	K 14	33	21	48	19	14	4	GN 000.5-2	515
GN 322.5-160-K14-A-*	160	K 14	33	21	48	20	14	4	GN 000.5-2	686
GN 322.5-200-K18-A-*	200	K 18	39	26	50	24	13	4	GN 000.5-3	1117
GN 322.5-250-K22-A-*	250	K 22	46	30	54	28	13	4	GN 000.5-4	1781

GN 322.5-D

Description	d1	d2 H7	d3	d4 max.	l1 max.	l2	l3	l4 ≈	r	w min.	Ø Handle	Coupling	⚖
GN 322.5-125-K12-D-*	125	K 12	29	17	42	18	12	67.5	54	4	23	GN 000.5-1	597
GN 322.5-140-K12-D-*	140	K 12	29	17	42	19	12	67.5	61	4	23	GN 000.5-1	705
GN 322.5-140-K14-D-*	140	K 14	33	21	48	19	14	67.5	61	4	23	GN 000.5-2	690
GN 322.5-160-K14-D-*	160	K 14	33	21	48	20	14	82.5	71	4	26	GN 000.5-2	978
GN 322.5-200-K18-D-*	200	K 18	39	26	50	24	13	82.5	89	4	26	GN 000.5-3	1409
GN 322.5-250-K22-D-*	250	K 22	46	30	54	28	13	82.5	113	4	28	GN 000.5-4	2173

Weight coding ZI

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RoHS

Handwheels with retractable handle

Aluminium, Handle swivelling

SPECIFICATION

Type

- Type **R**: with retractable handle

Bore codes

- Version **B**: without keyway
- Version **K**: with keyway

Aluminium

- Hub machined
- Rim turned and polished
- Unmachined body matt shot-blasted

Rim concentric and square to bore < 0.4

Safety retractable handles GN 798.7 (see page 587)
Plastic, Technopolymer
black, matt

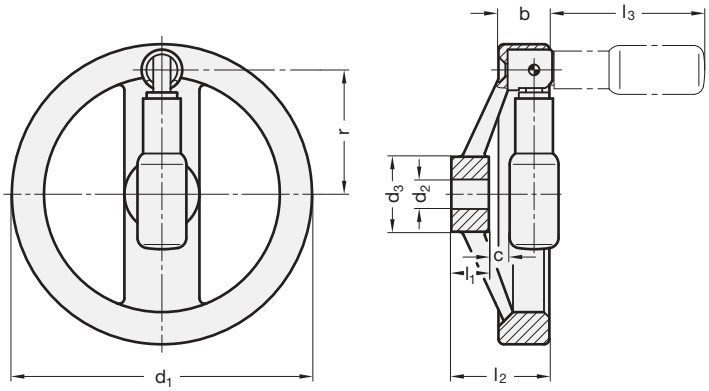
Retracting mechanism
Steel, blackened

INFORMATION

Spoked handwheels GN 322.7 are suitable for applications where the handle must not remain in the operating position. In order to bring the handle into this position it has to be turned first through 90° to a stop against a torsion spring and then it is pushed against spring pressure into its hold position.
By maintaining the forward thrust on the handle the handwheel can easily be rotated. When releasing the handle the springs returns it back to the retracted position.

TECHNICAL INFORMATION

- Keyway P9 DIN 6885 (see page A16)
- Cross holes GN 110 (see page A17)
- ISO-Fundamental Tolerances (see page A21)



GN 322.7

Description	d1	d2 H7	d3	b	c	l1	l2	l3	r	Ø Handle	⚖
GN 322.7-125-B12-R	125	12	31	24.5	7.5	18	44	61.5	50	22	438
GN 322.7-125-K12-R	125	12	31	24.5	7.5	18	44	61.5	50	22	438
GN 322.7-140-B14-R	140	14	36	24.5	7	19	45.5	76.5	57.5	24	548
GN 322.7-140-K14-R	140	14	36	24.5	7	19	45.5	76.5	57.5	24	530
GN 322.7-160-B14-R	160	14	36	25	7.5	20	47	76.5	67.5	24	660
GN 322.7-160-K14-R	160	14	36	25	7.5	20	47	76.5	67.5	24	640
GN 322.7-160-B16-R	160	16	36	25	7.5	20	47	76.5	67.5	24	560
GN 322.7-160-K16-R	160	16	36	25	7.5	20	47	76.5	67.5	24	550
GN 322.7-200-B18-R	200	18	42	25	8.5	24	52.5	86.5	84	25	970
GN 322.7-200-K18-R	200	18	42	25	8.5	24	52.5	86.5	84	25	960
GN 322.7-200-B20-R	200	20	42	25	8.5	24	52.5	86.5	84	25	945
GN 322.7-200-K20-R	200	20	42	25	8.5	24	52.5	86.5	84	25	935
GN 322.7-250-B22-R	250	22	48	26.5	13	28	61	86.5	111	25	1380
GN 322.7-250-K22-R	250	22	48	26.5	13	28	61	86.5	111	25	1330

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GN 324

Spoked handwheels

Aluminium, black, plastic coated

SPECIFICATION

Types

- Version **A**: without handle
- Version **R**: with revolving handle

Bore codes

- Version **B**: without keyway
- Version **K**: with keyway

Aluminium

- Hub machined
- Rim turned

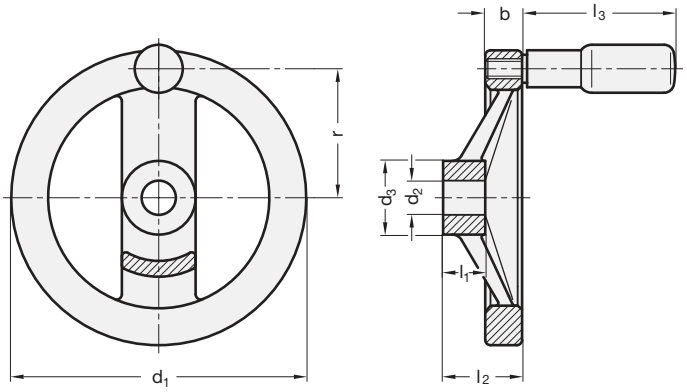
Rim concentric and square to bore < 0.4

Body plastic coated
black, textured finish

Cylindrical Revolving handles GN 798 (see page 577)
Plastic, Technopolymer
black, matt

TECHNICAL INFORMATION

- Keyway DIN 6885 (see page A16)
- Cross holes GN 110 (see page A17)
- ISO-Fundamental Tolerances (see page A21)



*Complete with Bore codes of the Handwheel (B or K)

B	K
without keyway	with keyway

GN 324-A

Description	d1	d2 H7	d3	b	l1	l2	⚖
GN 324-125-*12-A	125	12	31	15	18	33	316
GN 324-125-*14-A	125	14	31	15	18	33	310
GN 324-140-*14-A	140	14	36	16.5	19	36	408
GN 324-140-*16-A	140	16	36	16.5	19	36	400
GN 324-160-*14-A	160	14	36	18	20	39	540
GN 324-160-*16-A	160	16	36	18	20	39	530
GN 324-200-*18-A	200	18	42	20.5	24	45	911
GN 324-200-*20-A	200	20	42	20.5	24	45	894
GN 324-250-*22-A	250	22	48	23	28	51	1503
GN 324-250-*26-A	250	26	48	23	28	51	1497

GN 324-R

Description	d1	d2 H7	d3	b	l1	l2	l3	r	Ø Handle	⚖
GN 324-125-*12-R	125	12	31	15	18	33	61.5	54	22	390
GN 324-125-*14-R	125	14	31	15	18	33	61.5	54	22	380
GN 324-140-*14-R	140	14	36	16.5	19	36	76.5	61	24	510
GN 324-140-*16-R	140	16	36	16.5	19	36	76.5	61	24	490
GN 324-160-*14-R	160	14	36	18	20	39	76.5	71	24	635
GN 324-160-*16-R	160	16	36	18	20	39	76.5	71	24	620
GN 324-200-*18-R	200	18	42	20.5	24	45	86.5	89	25	1036
GN 324-200-*20-R	200	20	42	20.5	24	45	86.5	89	25	1019
GN 324-250-*22-R	250	22	48	23	28	51	86.5	113	25	1628
GN 324-250-*26-R	250	26	48	23	28	51	86.5	113	25	1600

Weight type B

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Spoked handwheels

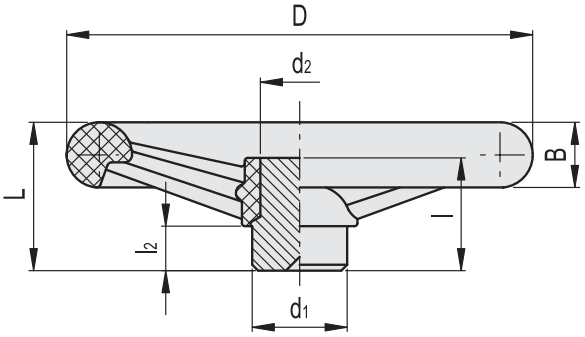
Duroplast, not drilled hub

MATERIAL
High-strength, reinforced phenolic based (PF) Duroplast, black colour, glossy finish.

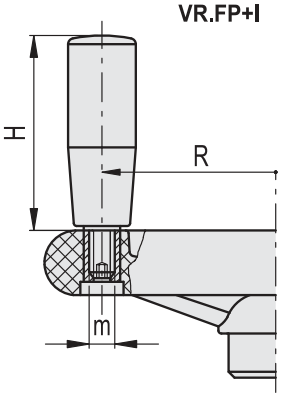
STANDARD EXECUTIONS
Black-oxide steel hub, uncovered front end, not drilled. See table for maximum permissible boring diameter d' and d".
- **VR.FP:** without handle.
- **VR.FP+I:** with revolving handle I.301+x (see page 574) in Duroplast.

ACCESSORIES ON REQUEST
Axial retaining washer GN 184 (see page 971).

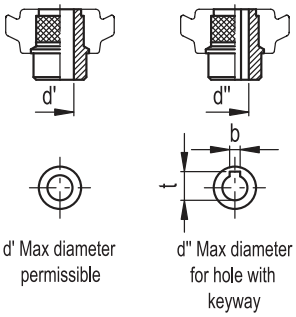
VR.FP



VR.FP+I



ELESA Original design



d' Max diameter permissible

d" Max diameter for hole with keyway

VR.FP

Code	Description	D	L	B	d1	d2	l	l2	d'	d''	t	b	C# [Nm]	L# [J]	⚖
77111	VR.100 FP	98	40	14	24	20	36	12	16	13	15.3	5	67	5	175
77211	VR.125 FP	124	45	18	24	20	36	12	16	13	15.3	5	120	8	240
77311	VR.140 FP	139	47	20	32	24	38	15	20	16	18.3	5	165	12	390
77411	VR.160 FP	157	50	22	32	24	38	15	20	16	18.3	5	165	12	455
77511	VR.180 FP	180	56	24	40	31	43	15	26	22	24.8	6	280	15	700
77611	VR.200 FP	198	56	24	40	31	43	15	26	22	24.8	6	300	16	750
77711	VR.250 FP	247	66	30	49	38	44	15	34	27	30.3	8	405	19	1235
77811	VR.300 FP	288	78	32	58	47	56	18	42	34	37.3	10	800	33	2060
77901	VR.375 FP	375	108	40	58	58	77	26	45	40	43.3	12	1450	70	3900

VR.FP+I

Code	Description	D	L	B	d1	d2	l	l2	H	m	R	d'	d''	C# [Nm]	L# [J]	⚖
77121	VR.100 FP+I	98	40	14	24	20	36	12	40	M6	37	16	13	67	5	205
77221	VR.125 FP+I	124	45	18	24	20	36	12	50	M8	47	16	13	120	8	300
77321	VR.140 FP+I	139	47	20	32	24	38	15	65	M8	53	20	16	165	12	475
77421	VR.160 FP+I	157	50	22	32	24	38	15	65	M8	59	20	16	165	12	540
77521	VR.180 FP+I	180	56	24	40	31	43	15	80	M10	68	26	22	280	15	830
77621	VR.200 FP+I	198	56	24	40	31	43	15	80	M10	76	26	22	300	16	880
77721	VR.250 FP+I	247	66	30	49	38	44	15	90	M10	98	34	27	405	19	1420
77821	VR.300 FP+I	288	78	32	58	47	56	18	100	M12	113	42	34	800	33	2335
77911	VR.375 FP+I	375	108	40	58	58	77	26	100	M12	160	45	40	1450	70	4170

For maximum torque (C) and impact strength (L) see Technical Data on page A3.

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Spoked handwheels

Duroplast, large diameter hub

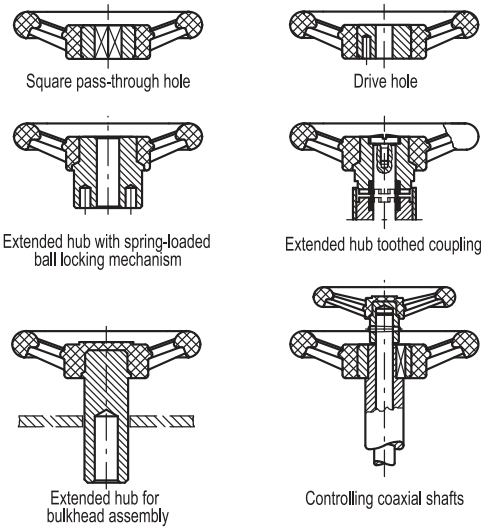
MATERIAL
High-strength, reinforced phenolic based (PF) Duroplast black colour, glossy finish.

STANDARD EXECUTIONS
Large diameter black-oxide steel hub, uncovered front end with spot-drilling.
- **VRU.:** without handle.
- **VRU+I:** with revolving handle I.301+x (see page 574) in Duroplast.

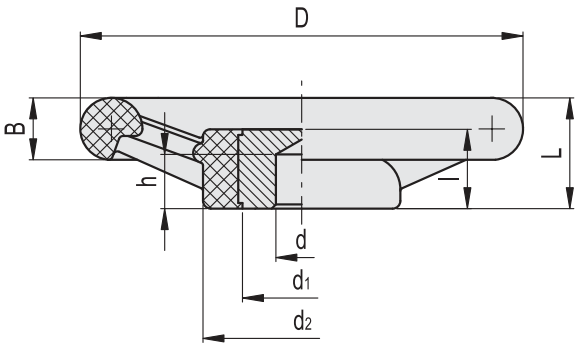
ACCESSORIES ON REQUEST
Axial retaining washer GN 184 (see page 971).

ELESA Original design

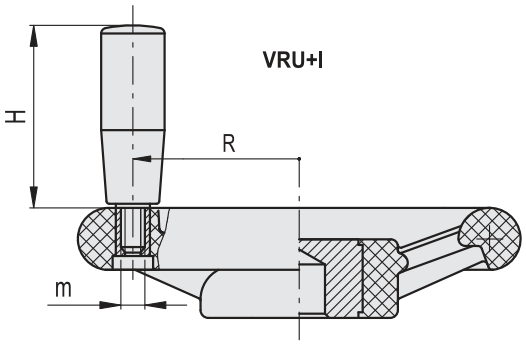
Execution examples for special applications



VRU.



VRU+I



VRU.

Code	Description	D	dH9	L	B	d1	d2	l	h	C# [Nm]	L# [J]	⚖
80001	VRU.125	125	10	28	18	32	55	22	15	220	9	315
80101	VRU.160	160	10	35	22	42	70	26	17	350	13	615
80201	VRU.200	199	12	40	26	53	85	27	20	450	20	990
80301	VRU.250	249	12	49	30	68	105	30	22	650	25	1770

VRU+I

Code	Description	D	dH9	L	B	d1	d2	l	h	H	m	R	C# [Nm]	L# [J]	⚖
80011	VRU.125+I	125	10	28	18	32	55	22	15	65	M8	47	220	9	400
80111	VRU.160+I	160	10	35	22	42	70	26	17	65	M8	60	350	13	700
80211	VRU.200+I	199	12	40	26	53	85	27	20	80	M10	75	450	20	1130
80311	VRU.250+I	249	12	49	30	68	105	30	22	80	M10	99	650	25	1910

For maximum torque (C) and impact strength (L) see Technical Data on page A3.

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Spoked handwheels

Cast iron / Aluminium

SPECIFICATION

Types

- Type **A**: without handle
- Type **F**: with fixed handle
- Type **D**: with revolving handle

Bore codes

- Version **B**: without keyway
- Version **K**: with keyway
- Version **V**: with square

Cast iron **GG**

- Hub machined
- Rim turned and polished

Aluminium **AL**

- Hub machined
- Rim turned and polished
- unmachined body shot-blasted

Rim concentric and square to bore < 0.4

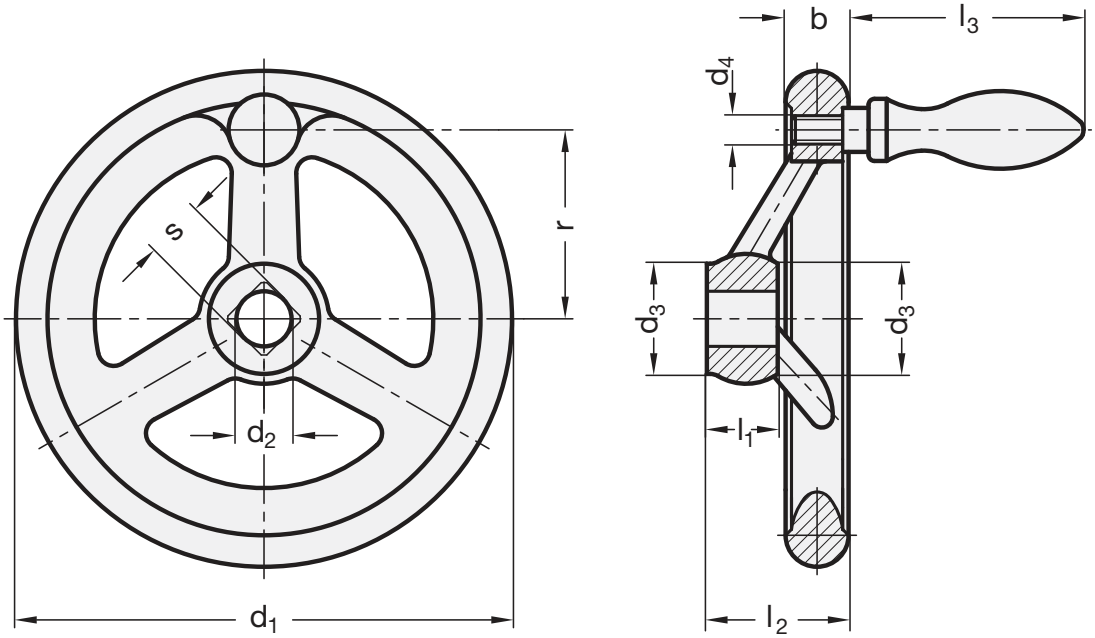
Fixed handles DIN 39 (see page 565)
Revolving handles DIN 98 (see page 579)
Steel, zinc plated respectively
Plastic, Technopolymer black

INFORMATION

Handwheels DIN 950 in cast iron are supplied with handles made of zinc plated steel. In aluminum they are supplied with handles made of plastic (Type D) and made of zinc plated steel (Type F).
The official standard sheet only provides for types A (without handle) and G (without handle, but with thread d_4), also without the handwheel diameter $d_1 = 180$.

TECHNICAL INFORMATION

- Keyway P9 DIN 6885 (see page A16)
- Square DIN 79 (see page A16)
- Cross holes GN 110 (see page A17)
- ISO-Fundamental Tolerances (see page A21)



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DIN 950 | Spoked handwheels

*Complete with material of the Spoked handwheels (GG or AL)

GG Cast iron **AL** Aluminium

DIN 950-A

Description	d1	d2 H7	s H11	d3 ≈	b	l1	l2 ≈	No. of spokes	⚖
DIN 950-*-80-V9-A	80	-	V 9	24	14	16	29	3	105
DIN 950-*-80-B10-A	80	10	-	24	14	16	29	3	100
DIN 950-*-80-K10-A	80	10	-	24	14	16	29	3	100
DIN 950-*-80-B12-A	80	12	-	24	14	16	29	3	110
DIN 950-*-80-K12-A	80	12	-	24	14	16	29	3	100
DIN 950-*-100-V9-A	100	-	V 9	26	15	17	33	3	190
DIN 950-*-100-B10-A	100	10	-	26	15	17	33	3	187
DIN 950-*-100-K10-A	100	10	-	26	15	17	33	3	185
DIN 950-*-100-B12-A	100	12	-	26	15	17	33	3	185
DIN 950-*-100-K12-A	100	12	-	26	15	17	33	3	183
DIN 950-*-125-V11-A	125	-	V 11	28	16	18	36	3	265
DIN 950-*-125-B12-A	125	12	-	28	16	18	36	3	240
DIN 950-*-125-K12-A	125	12	-	28	16	18	36	3	230
DIN 950-*-125-B14-A	125	14	-	28	16	18	36	3	259
DIN 950-*-125-K14-A	125	14	-	28	16	18	36	3	257
DIN 950-*-140-B14-A	140	14	-	30	17	19	39	3	339
DIN 950-*-140-K14-A	140	14	-	30	17	19	39	3	337
DIN 950-*-140-B16-A	140	16	-	30	17	19	39	3	327
DIN 950-*-140-K16-A	140	16	-	30	17	19	39	3	325
DIN 950-*-160-V12-A	160	-	V 12	33	18	20	40	3	460
DIN 950-*-160-B14-A	160	14	-	33	18	20	40	3	458
DIN 950-*-160-K14-A	160	14	-	33	18	20	40	3	450
DIN 950-*-160-B15-A	160	15	-	33	18	20	40	3	450
DIN 950-*-160-K15-A	160	15	-	33	18	20	40	3	445
DIN 950-*-160-B16-A	160	16	-	33	18	20	40	3	440
DIN 950-*-160-K16-A	160	16	-	33	18	20	40	3	435
DIN 950-*-180-B16-A	180	16	-	35	20	22	43	3	615
DIN 950-*-180-K16-A	180	16	-	35	20	22	43	3	611
DIN 950-*-180-B18-A	180	18	-	35	20	22	43	3	604
DIN 950-*-180-K18-A	180	18	-	35	20	22	43	3	600
DIN 950-*-200-V14-A	200	-	V 14	38	22	24	45	3	820
DIN 950-*-200-B18-A	200	18	-	38	22	24	45	3	806
DIN 950-*-200-K18-A	200	18	-	38	22	24	45	3	800
DIN 950-*-200-B20-A	200	20	-	38	22	24	45	3	795
DIN 950-*-200-K20-A	200	20	-	38	22	24	45	3	730
DIN 950-*-200-B22-A	200	22	-	38	22	24	45	3	799
DIN 950-*-200-K22-A	200	22	-	38	22	24	45	3	795
DIN 950-*-250-V17-A	250	-	V 17	48	26	28	50	5	1435
DIN 950-*-250-B22-A	250	22	-	48	26	28	50	5	1429
DIN 950-*-250-K22-A	250	22	-	48	26	28	50	5	1424
DIN 950-*-250-B24-A	250	24	-	48	26	28	50	5	1419
DIN 950-*-250-K24-A	250	24	-	48	26	28	50	5	1414
DIN 950-*-250-B26-A	250	26	-	48	26	28	50	5	1398
DIN 950-*-250-K26-A	250	26	-	48	26	28	50	5	1393
DIN 950-*-315-V19-A	315	-	V 19	53	28	33	56	5	2230
DIN 950-*-315-B26-A	315	26	-	53	28	33	56	5	2204
DIN 950-*-315-K26-A	315	26	-	53	28	33	56	5	2200
DIN 950-*-315-B28-A	315	28	-	53	28	33	56	5	2322
DIN 950-*-315-K28-A	315	28	-	53	28	33	56	5	2314
DIN 950-*-315-B30-A	315	30	-	53	28	33	56	5	2000
DIN 950-*-315-K30-A	315	30	-	53	28	33	56	5	1990
DIN 950-*-400-V24-A	400	-	V 24	65	32	38	63	5	4000
DIN 950-*-400-B30-A	400	30	-	65	32	38	63	5	3653
DIN 950-*-400-K30-A	400	30	-	65	32	38	63	5	3644
DIN 950-*-400-B32-A	400	32	-	65	32	38	63	5	3638
DIN 950-*-400-K32-A	400	32	-	65	32	38	63	5	3629

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DIN 950 | Spoked handwheels

*Complete with material of the Spoked handwheels (GG or AL)

GG Cast iron

AL Aluminium

DIN 950-A

Description	d1	d2 H7	s H11	d3 ≈	b	l1	l2 ≈	No. of spokes	⚖
DIN 950-*-400-K32-A	400	32	-	65	32	38	63	5	3629
DIN 950-*-400-B34-A	400	34	-	65	32	38	63	5	3619
DIN 950-*-400-K34-A	400	34	-	65	32	38	63	5	3610
DIN 950-*-500-V27-A	500	-	V 27	78	34	45	72	5	5485
DIN 950-*-500-B34-A	500	34	-	78	34	45	72	5	5470
DIN 950-*-500-K34-A	500	34	-	78	34	45	72	5	5460
DIN 950-*-500-B36-A	500	36	-	78	34	45	72	5	5440
DIN 950-*-500-K36-A	500	36	-	78	34	45	72	5	5430
DIN 950-*-500-B40-A	500	40	-	78	34	45	72	5	5400
DIN 950-*-500-K40-A	500	40	-	78	34	45	72	5	5390

DIN 950-F

Description	d1	d2 H7	s H11	d3 ≈	d4	b	l1	l2 ≈	l3	r	Ø Handle	No. of spokes	⚖
DIN 950-*-80-V9-F	80	-	V 9	24	M 6	14	16	29	48.5	27	16	3	146
DIN 950-*-80-B10-F	80	10	-	24	M 6	14	16	29	48.5	27	16	3	160
DIN 950-*-80-K10-F	80	10	-	24	M 6	14	16	29	48.5	27	16	3	146
DIN 950-*-80-B12-F	80	12	-	24	M 6	14	16	29	48.5	27	16	3	144
DIN 950-*-80-K12-F	80	12	-	24	M 6	14	16	29	48.5	27	16	3	142
DIN 950-*-100-V9-F	100	-	V 9	26	M 6	15	17	33	48.5	36	16	3	227
DIN 950-*-100-B10-F	100	10	-	26	M 6	15	17	33	48.5	36	16	3	228
DIN 950-*-100-K10-F	100	10	-	26	M 6	15	17	33	48.5	36	16	3	226
DIN 950-*-100-B12-F	100	12	-	26	M 6	15	17	33	48.5	36	16	3	224
DIN 950-*-100-K12-F	100	12	-	26	M 6	15	17	33	48.5	36	16	3	222
DIN 950-*-125-V11-F	125	-	V 11	28	M 8	16	18	36	62	47	20	3	349
DIN 950-*-125-B12-F	125	12	-	28	M 8	16	18	36	62	47	20	3	370
DIN 950-*-125-K12-F	125	12	-	28	M 8	16	18	36	62	47	20	3	349
DIN 950-*-125-B14-F	125	14	-	28	M 8	16	18	36	62	47	20	3	324
DIN 950-*-125-K14-F	125	14	-	28	M 8	16	18	36	62	47	20	3	322
DIN 950-*-140-B14-F	140	14	-	30	M 8	17	19	39	62	52	20	3	426
DIN 950-*-140-K14-F	140	14	-	30	M 8	17	19	39	62	52	20	3	424
DIN 950-*-140-B16-F	140	16	-	30	M 8	17	19	39	62	52	20	3	437
DIN 950-*-140-K16-F	140	16	-	30	M 8	17	19	39	62	52	20	3	422
DIN 950-*-160-V12-F	160	-	V 12	33	M 10	18	20	40	77	62	25	3	593
DIN 950-*-160-B14-F	160	14	-	33	M 10	18	20	40	77	62	25	3	593
DIN 950-*-160-K14-F	160	14	-	33	M 10	18	20	40	77	62	25	3	590
DIN 950-*-160-B15-F	160	15	-	33	M 10	18	20	40	77	62	25	3	591
DIN 950-*-160-K15-F	160	15	-	33	M 10	18	20	40	77	62	25	3	588
DIN 950-*-160-B16-F	160	16	-	33	M 10	18	20	40	77	62	25	3	588
DIN 950-*-160-K16-F	160	16	-	33	M 10	18	20	40	77	62	25	3	585
DIN 950-*-180-B16-F	180	16	-	35	M 10	20	22	43	77	72	25	3	750
DIN 950-*-180-K16-F	180	16	-	35	M 10	20	22	43	77	72	25	3	746
DIN 950-*-180-B18-F	180	18	-	35	M 10	20	22	43	77	72	25	3	746
DIN 950-*-180-K18-F	180	18	-	35	M 10	20	22	43	77	72	25	3	742
DIN 950-*-200-V14-F	200	-	V 14	38	M 10	22	24	45	77	80	25	3	961
DIN 950-*-200-B18-F	200	18	-	38	M 10	22	24	45	77	80	25	3	945
DIN 950-*-200-K18-F	200	18	-	38	M 10	22	24	45	77	80	25	3	941
DIN 950-*-200-B20-F	200	20	-	38	M 10	22	24	45	77	80	25	3	925

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DIN 950 | Spoked handwheels

*Complete with material of the Spoked handwheels (GG or AL)

GG Cast iron

AL Aluminium

DIN 950-F

Description	d1	d2 H7	s H11	d3 ≈	d4	b	l1	l2 ≈	l3	r	Ø Handle	No. of spokes	⚖
DIN 950-*-200-K20-F	200	20	-	38	M 10	22	24	45	77	80	25	3	921
DIN 950-*-200-B22-F	200	22	-	38	M 10	22	24	45	77	80	25	3	910
DIN 950-*-200-K22-F	200	22	-	38	M 10	22	24	45	77	80	25	3	906
DIN 950-*-250-V17-F	250	-	V 17	48	M 12	26	28	50	96.5	101	32	5	4800
DIN 950-*-250-B22-F	250	22	-	48	M 12	26	28	50	96.5	101	32	5	1784
DIN 950-*-250-K22-F	250	22	-	48	M 12	26	28	50	96.5	101	32	5	1779
DIN 950-*-250-B24-F	250	24	-	48	M 12	26	28	50	96.5	101	32	5	1774
DIN 950-*-250-K24-F	250	24	-	48	M 12	26	28	50	96.5	101	32	5	1769
DIN 950-*-250-B26-F	250	26	-	48	M 12	26	28	50	96.5	101	32	5	1753
DIN 950-*-250-K26-F	250	26	-	48	M 12	26	28	50	96.5	101	32	5	1748
DIN 950-*-315-V19-F	315	-	V 19	53	M 12	28	33	56	96.5	132	32	5	2695
DIN 950-*-315-B26-F	315	26	-	53	M 12	28	33	56	96.5	132	32	5	2685
DIN 950-*-315-K26-F	315	26	-	53	M 12	28	33	56	96.5	132	32	5	2677
DIN 950-*-315-B28-F	315	28	-	53	M 12	28	33	56	96.5	132	32	5	2677
DIN 950-*-315-K28-F	315	28	-	53	M 12	28	33	56	96.5	132	32	5	2669
DIN 950-*-315-B30-F	315	30	-	53	M 12	28	33	56	96.5	132	32	5	2668
DIN 950-*-315-K30-F	315	30	-	53	M 12	28	33	56	96.5	132	32	5	2660
DIN 950-*-400-V24-F	400	-	V 24	65	M 12	32	38	63	96.5	171	32	5	4190
DIN 950-*-400-B30-F	400	30	-	65	M 12	32	38	63	96.5	171	32	5	4173
DIN 950-*-400-K30-F	400	30	-	65	M 12	32	38	63	96.5	171	32	5	4164
DIN 950-*-400-B32-F	400	32	-	65	M 12	32	38	63	96.5	171	32	5	4158
DIN 950-*-400-K32-F	400	32	-	65	M 12	32	38	63	96.5	171	32	5	4149
DIN 950-*-400-B34-F	400	34	-	65	M 12	32	38	63	96.5	171	32	5	4139
DIN 950-*-400-K34-F	400	34	-	65	M 12	32	38	63	96.5	171	32	5	4130
DIN 950-*-500-V27-F	500	-	V 27	78	M 12	34	45	72	96.5	220	32	5	6009
DIN 950-*-500-B34-F	500	34	-	78	M 12	34	45	72	96.5	220	32	5	5984
DIN 950-*-500-K34-F	500	34	-	78	M 12	34	45	72	96.5	220	32	5	5974
DIN 950-*-500-B36-F	500	36	-	78	M 12	34	45	72	96.5	220	32	5	6050
DIN 950-*-500-K36-F	500	36	-	78	M 12	34	45	72	96.5	220	32	5	5942
DIN 950-*-500-B40-F	500	40	-	78	M 12	34	45	72	96.5	220	32	5	5914
DIN 950-*-500-K40-F	500	40	-	78	M 12	34	45	72	96.5	220	32	5	5904

DIN 950-D

Description	d1	d2 H7	s H11	d3 ≈	d4	b	l1	l2 ≈	l3	r	Ø Handle	No. of spokes	⚖
DIN 950-*-80-V9-D	80	-	V 9	24	M 6	14	16	29	53	27	16	3	156
DIN 950-*-80-B10-D	80	10	-	24	M 6	14	16	29	53	27	16	3	150
DIN 950-*-80-K10-D	80	10	-	24	M 6	14	16	29	53	27	16	3	136
DIN 950-*-80-B12-D	80	12	-	24	M 6	14	16	29	53	27	16	3	134
DIN 950-*-80-K12-D	80	12	-	24	M 6	14	16	29	53	27	16	3	130
DIN 950-*-100-V9-D	100	-	V 9	26	M 6	15	17	33	53	36	16	3	237
DIN 950-*-100-B10-D	100	10	-	26	M 6	15	17	33	53	36	16	3	220
DIN 950-*-100-K10-D	100	10	-	26	M 6	15	17	33	53	36	16	3	215
DIN 950-*-100-B12-D	100	12	-	26	M 6	15	17	33	53	36	16	3	225
DIN 950-*-100-K12-D	100	12	-	26	M 6	15	17	33	53	36	16	3	220
DIN 950-*-125-V11-D	125	-	V 11	28	M 8	16	18	36	65	47	20	3	332
DIN 950-*-125-B12-D	125	12	-	28	M 8	16	18	36	65	47	20	3	330
DIN 950-*-125-K12-D	125	12	-	28	M 8	16	18	36	65	47	20	3	320
DIN 950-*-125-B14-D	125	14	-	28	M 8	16	18	36	65	47	20	3	341
DIN 950-*-125-K14-D	125	14	-	28	M 8	16	18	36	65	47	20	3	339

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DIN 950 | Spoked handwheels

*Complete with material of the Spoked handwheels (GG or AL)

GG Cast iron **AL** Aluminium

DIN 950-D

Description	d1	d2 H7	s H11	d3 ≈	d4	b	l1	l2 ≈	l3	r	Ø Handle	No. of spokes	⚖
DIN 950-*-140-B14-D	140	14	-	30	M 8	17	19	39	65	52	20	3	340
DIN 950-*-140-K14-D	140	14	-	30	M 8	17	19	39	65	52	20	3	320
DIN 950-*-140-B16-D	140	16	-	30	M 8	17	19	39	65	52	20	3	378
DIN 950-*-140-K16-D	140	16	-	30	M 8	17	19	39	65	52	20	3	375
DIN 950-*-160-V12-D	160	-	V 12	33	M 10	18	20	40	80	62	25	3	480
DIN 950-*-160-B14-D	160	14	-	33	M 10	18	20	40	80	62	25	3	460
DIN 950-*-160-K14-D	160	14	-	33	M 10	18	20	40	80	62	25	3	440
DIN 950-*-160-B15-D	160	15	-	33	M 10	18	20	40	80	62	25	3	550
DIN 950-*-160-K15-D	160	15	-	33	M 10	18	20	40	80	62	25	3	500
DIN 950-*-160-B16-D	160	16	-	33	M 10	18	20	40	80	62	25	3	500
DIN 950-*-160-K16-D	160	16	-	33	M 10	18	20	40	80	62	25	3	490
DIN 950-*-180-B16-D	180	16	-	35	M 10	20	22	43	80	72	25	3	910
DIN 950-*-180-K16-D	180	16	-	35	M 10	20	22	43	80	72	25	3	890
DIN 950-*-180-B18-D	180	18	-	35	M 10	20	22	43	80	72	25	3	755
DIN 950-*-180-K18-D	180	18	-	35	M 10	20	22	43	80	72	25	3	751
DIN 950-*-200-V14-D	200	-	V 14	38	M 10	22	24	45	80	80	25	3	830
DIN 950-*-200-B18-D	200	18	-	38	M 10	22	24	45	80	80	25	3	800
DIN 950-*-200-K18-D	200	18	-	38	M 10	22	24	45	80	80	25	3	740
DIN 950-*-200-B20-D	200	20	-	38	M 10	22	24	45	80	80	25	3	950
DIN 950-*-200-K20-D	200	20	-	38	M 10	22	24	45	80	80	25	3	932
DIN 950-*-200-B22-D	200	22	-	38	M 10	22	24	45	80	80	25	3	919
DIN 950-*-200-K22-D	200	22	-	38	M 10	22	24	45	80	80	25	3	915
DIN 950-*-250-V17-D	250	-	V 17	48	M 12	26	28	50	102	101	32	5	1630
DIN 950-*-250-B22-D	250	22	-	48	M 12	26	28	50	102	101	32	5	1600
DIN 950-*-250-K22-D	250	22	-	48	M 12	26	28	50	102	101	32	5	1580
DIN 950-*-250-B24-D	250	24	-	48	M 12	26	28	50	102	101	32	5	1450
DIN 950-*-250-K24-D	250	24	-	48	M 12	26	28	50	102	101	32	5	1420
DIN 950-*-250-B26-D	250	26	-	48	M 12	26	28	50	102	101	32	5	1590
DIN 950-*-250-K26-D	250	26	-	48	M 12	26	28	50	102	101	32	5	1550
DIN 950-*-315-V19-D	315	-	V 19	53	M 12	28	33	56	102	132	32	5	2400
DIN 950-*-315-B26-D	315	26	-	53	M 12	28	33	56	102	132	32	5	1700
DIN 950-*-315-K26-D	315	26	-	53	M 12	28	33	56	102	132	32	5	2300
DIN 950-*-315-B28-D	315	28	-	53	M 12	28	33	56	102	132	32	5	2487
DIN 950-*-315-K28-D	315	28	-	53	M 12	28	33	56	102	132	32	5	2300
DIN 950-*-315-B30-D	315	30	-	53	M 12	28	33	56	102	132	32	5	2615
DIN 950-*-315-K30-D	315	30	-	53	M 12	28	33	56	102	132	32	5	2600
DIN 950-*-400-V24-D	400	-	V 24	65	M 12	32	38	63	102	171	32	5	4200
DIN 950-*-400-B30-D	400	30	-	65	M 12	32	38	63	102	171	32	5	4000
DIN 950-*-400-K30-D	400	30	-	65	M 12	32	38	63	102	171	32	5	3800
DIN 950-*-400-B32-D	400	32	-	65	M 12	32	38	63	102	171	32	5	4206
DIN 950-*-400-K32-D	400	32	-	65	M 12	32	38	63	102	171	32	5	4197
DIN 950-*-400-B34-D	400	34	-	65	M 12	32	38	63	102	171	32	5	4000
DIN 950-*-400-K34-D	400	34	-	65	M 12	32	38	63	102	171	32	5	3900
DIN 950-*-500-V27-D	500	-	V 27	78	M 12	34	45	72	102	220	32	5	5600
DIN 950-*-500-B34-D	500	34	-	78	M 12	34	45	72	102	220	32	5	5500
DIN 950-*-500-K34-D	500	34	-	78	M 12	34	45	72	102	220	32	5	5480
DIN 950-*-500-B36-D	500	36	-	78	M 12	34	45	72	102	220	32	5	6002
DIN 950-*-500-K36-D	500	36	-	78	M 12	34	45	72	102	220	32	5	5992
DIN 950-*-500-B40-D	500	40	-	78	M 12	34	45	72	102	220	32	5	5962
DIN 950-*-500-K40-D	500	40	-	78	M 12	34	45	72	102	220	32	5	5900

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GN 950.1

Spoked handwheels

with large hub

SPECIFICATION

Types

- Type **A**: without handle
- Type **D**: with revolving handle

Bore codes

- Version **B**: without keyway
- Version **K**: with keyway

Cast iron **GG**

- Hub machined
- Rim turned and polished

Rim concentric and square to bore < 0.4

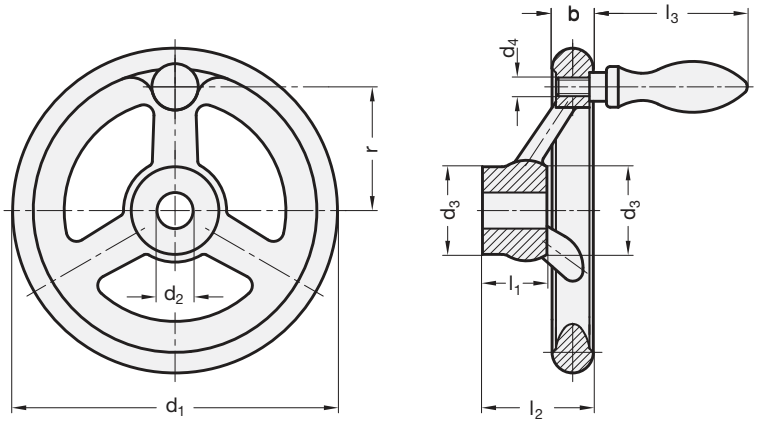
Revolving handles DIN 98 (see page 579)
Steel, zinc plated

INFORMATION

Handwheels GN 950.1 differ from normal handwheels DIN 950 (see page 140) only by the larger hub.

TECHNICAL INFORMATION

- Keyway P9 DIN 6885 (see page A16)
- Cross holes GN 110 (see page A17)
- ISO- Fundamental Tolerances (see page A21)



GN 950.1-A

Description	d_1	d_2 H7	d_3	b	l_1	l_2 ≈	No. of spokes	⚖
GN 950.1-GG-125-B14-A	125	14	34	16	26	45	3	750
GN 950.1-GG-125-K14-A	125	14	34	16	26	45	3	740
GN 950.1-GG-160-B16-A	160	16	45	18	32	52	3	1300
GN 950.1-GG-160-K16-A	160	16	45	18	32	52	3	1280
GN 950.1-GG-200-B20-A	200	20	50	22	38	59	3	2306
GN 950.1-GG-200-K20-A	200	20	50	22	38	59	3	1290
GN 950.1-GG-250-B24-A	250	24	56	26	44	66	3	4108
GN 950.1-GG-250-K24-A	250	24	56	26	44	66	3	4000

GN 950.1-D

Description	d_1	d_2 H7	d_3	b	l_1	l_2 ≈	l_3 ≈	r	Ø Handle	No. of spokes	⚖
GN 950.1-GG-125-B14-D	125	14	34	16	26	45	65	47	20	3	886
GN 950.1-GG-125-K14-D	125	14	34	16	26	45	65	47	20	3	882
GN 950.1-GG-160-B16-D	160	16	45	18	32	52	80	62	25	3	1557
GN 950.1-GG-160-K16-D	160	16	45	18	32	52	80	62	25	3	1551
GN 950.1-GG-200-B20-D	200	20	50	22	38	59	80	80	25	3	2515
GN 950.1-GG-200-K20-D	200	20	50	22	38	59	80	80	25	3	2508
GN 950.1-GG-250-B24-D	250	24	56	26	44	66	102	101	32	3	4410
GN 950.1-GG-250-K24-D	250	24	56	26	44	66	102	101	32	3	4400

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Stainless Steel-Spoked handwheels

SPECIFICATION

Types

- Type **A**: without handle
- Type **F**: with fixed handle

Bore codes

- Version **B**: without keyway
- Version **K**: with keyway

Stainless Steel precision casting

- AISI 316
- acid-resistant (A4-Quality)
- Hub machined
- Rim turned and polished
- unmachined surface matt shot-blasted

Stainless Steel-Handle

INFORMATION

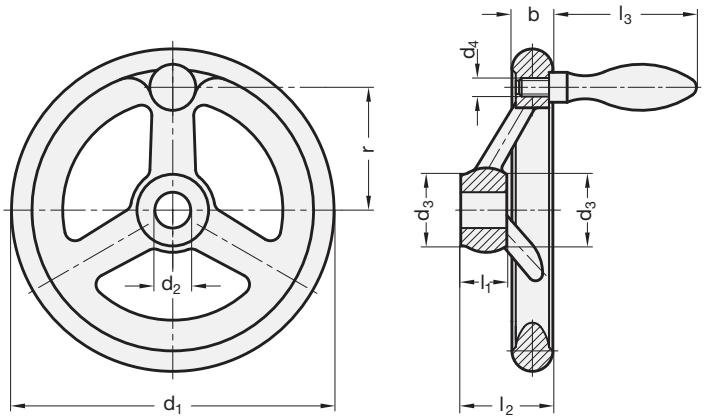
The dimensions of the Stainless Steel-Handwheels GN 950.6 comply extensively with Handwheels DIN 950 (see page 140).

ON REQUEST

- other bore-Ø
- with square

TECHNICAL INFORMATION

- Keyway P9 DIN 6885 (see page A16)
- Cross holes GN 110 (see page A17)
- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)



*Complete with Bore codes of the Handwheels (B or K)

B	K
wihout keyway	with keyway

GN 950.6-A

STAINLESS STEEL

Description	d1	d2 H9	d3 ≈	b	l1	l2 ≈	No. of spokes	⚖
GN 950.6-100-*10-A	100	10	25.5	14.5	17	33	3	433
GN 950.6-125-*12-A	125	12	27	15.8	18	35.5	3	659
GN 950.6-140-*14-A	140	14	29	17	19	38.5	3	865
GN 950.6-160-*14-A	160	14	31	17.5	20	39.5	3	1156
GN 950.6-200-*18-A	200	18	37	20	24	44.5	3	1938

GN 950.6-F

STAINLESS STEEL

Description	d1	d2 H9	d3 ≈	d4	b	l1	l2 ≈	l3	r	Ø Handle	No. of spokes	⚖
GN 950.6-100-*10-F	100	10	25.5	M 6	14.5	17	33	48.5	36	16	3	480
GN 950.6-125-*12-F	125	12	27	M 8	15.8	18	35.5	62	47	20	3	770
GN 950.6-140-*14-F	140	14	29	M 8	17	19	38.5	62	52	20	3	940
GN 950.6-160-*14-F	160	14	31	M 10	17.5	20	39.5	77	62	25	3	1320
GN 950.6-200-*18-F	200	18	37	M 10	20	24	44.5	77	80	25	3	2060

Weight bore code B

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GN 949

Stainless Steel-Handwheels

SPECIFICATION

Types

- Type **A**: without handle
- Type **D**: with revolving handle

Bore codes

- Version **B**: without keyway
- Version **K**: with keyway

Stainless Steel precision casting

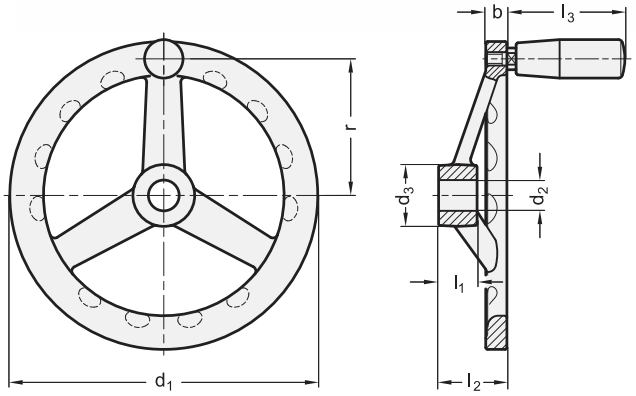
- AISI CF-8
- Hub machined
- Rim turned
- matt shot-blasted

Revolving handles

- Plastic Duroplast, black, shiny finish
- Spindle Stainless Steel AISI 304

INFORMATION

The design of Stainless Steel-Handwheels GN 949 complies with the requirements of hygiene standards.
The revolving handles are made of Duroplast which, in general, provides good resistance to the impact of chemical agents.



*Complete with Bore codes of the Handwheels (B or K)

B	K
wihout keyway	with keyway

GN 949-A — STAINLESS STEEL

Description	d1	d2 H8	d3	b	l1	l2 ≈	No. of spokes	⚖
GN 949-100-*10-A	100	10	20	7	15	27.5	3	222
GN 949-100-*12-A	100	12	20	7	15	27.5	3	200
GN 949-125-*12-A	125	12	24	9	16	28.5	3	425
GN 949-125-*14-A	125	14	24	9	16	28.5	3	410
GN 949-140-*14-A	140	14	28	10	18	30.5	3	640
GN 949-140-*16-A	140	16	28	10	18	30.5	3	600
GN 949-160-*14-A	160	14	31	11	20	35.5	3	825
GN 949-160-*16-A	160	16	31	11	20	35.5	3	805
GN 949-200-*18-A	200	18	36	14	23	39	3	1442
GN 949-200-*20-A	200	20	36	14	23	39	3	1400

GN 949-D — STAINLESS STEEL

Description	d1	d2 H8	d3	b	l1	l2 ≈	l3 ≈	r	Ø Handle	No. of spokes	⚖
GN 949-100-*10-D	100	10	20	7	15	27.5	45	44	18	3	255
GN 949-100-*12-D	100	12	20	7	15	27.5	45	44	18	3	240
GN 949-125-*12-D	125	12	24	9	16	28.5	55	55	21	3	420
GN 949-125-*14-D	125	14	24	9	16	28.5	55	55	21	3	405
GN 949-140-*14-D	140	14	28	10	18	30.5	70.5	62	23	3	700
GN 949-140-*16-D	140	16	28	10	18	30.5	70.5	62	23	3	680
GN 949-160-*14-D	160	14	31	11	20	35.5	70.5	71	23	3	920
GN 949-160-*16-D	160	16	31	11	20	35.5	70.5	71	23	3	900
GN 949-200-*18-D	200	18	36	14	23	39	70.5	90	23	3	1544
GN 949-200-*20-D	200	20	36	14	23	39	70.5	90	23	3	1495

Weight bore code B

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GN 227.2

Stainless Steel-Handwheels

AISI 304 (A2)

SPECIFICATION

Types

- Type **A**: without handle
- Type **D**: with revolving handle

Bore codes

- Version **B**: without keyway
- Version **K**: with keyway
- Version **V**: with square

Stainless Steel A2

- AISI 304
- matt shot-blasted
- Wheel body, pressed Stainless Steel
- Hub welded

Revolving handles

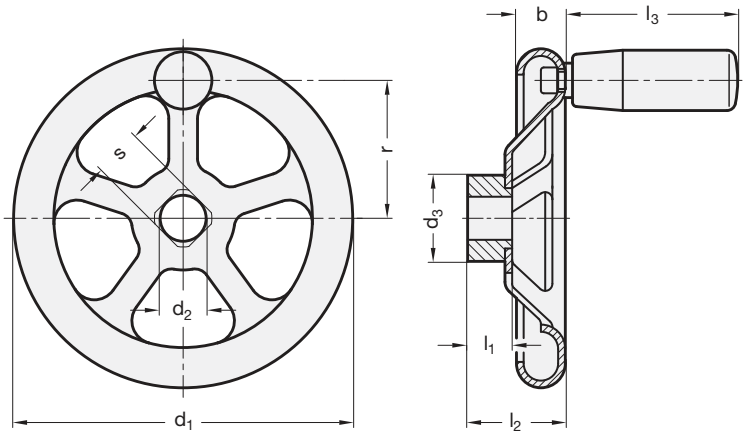
- Plastic, Duroplast, black, shiny finish
- Spindle Stainless Steel AISI 304

INFORMATION

The hub lengths of the pressed Stainless Steel-Handwheels GN 227.2 conform to DIN 950 (see page 140).
Stainless Steel-Handwheels GN 227.2 are renowned for their high mechanical strength. They are not affected by shock and knocks.

TECHNICAL INFORMATION

- Keyway P9 DIN 6885 (see page A16)
- Square DIN 79 (see page A16)
- Cross holes GN 110 (see page A17)
- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)



*Complete with Bore codes of the Handwheel (B, K or V)

B	K	V
without keyway	with keyway	with square

GN 227.2-A — STAINLESS STEEL

Description	d1	d2 H9	s H11	b	d3	l1	l2 ≈	No. of spokes	Thickness	⚖
GN 227.2-160-*12-A	160	12	V 12	22	30	20	39	4	2	430
GN 227.2-200-*14-A	200	14	V 14	22	40	24	44	4	2.5	824
GN 227.2-250-*17-A	250	17	V 17	30	45	28	52	5	3	1477
GN 227.2-315-*19-A	315	19	V 19	36	55	33	64	5	3	2330
GN 227.2-400-*24-A	400	24	V 24	43	65	38	81	5	3	4210

GN 227.2-D — STAINLESS STEEL

Description	d1	d2 H9	s H11	b	d3	l1	l2 ≈	l3	r	Ø Handle	No. of spokes	Thickness	⚖
GN 227.2-160-*12-D	160	12	V 12	22	30	20	39	83	68	26	4	2	530
GN 227.2-200-*14-D	200	14	V 14	22	40	24	44	83	88	26	4	2.5	924
GN 227.2-250-*17-D	250	17	V 17	30	45	28	52	93	108	28	5	3	1565
GN 227.2-315-*19-D	315	19	V 19	36	55	33	64	93	138	28	5	3	2400
GN 227.2-400-*24-D	400	24	V 24	43	65	38	81	93	178	28	5	3	4300

Weight type B

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GN 227.1

Pressed steel handwheels

SPECIFICATION

Bore codes

- Version **B**: without keyway
- Version **K**: with keyway
- Version **V**: with square

Pressed Steel
plastic coated
black, textured finish **SW**

Hub
Steel, welded

INFORMATION

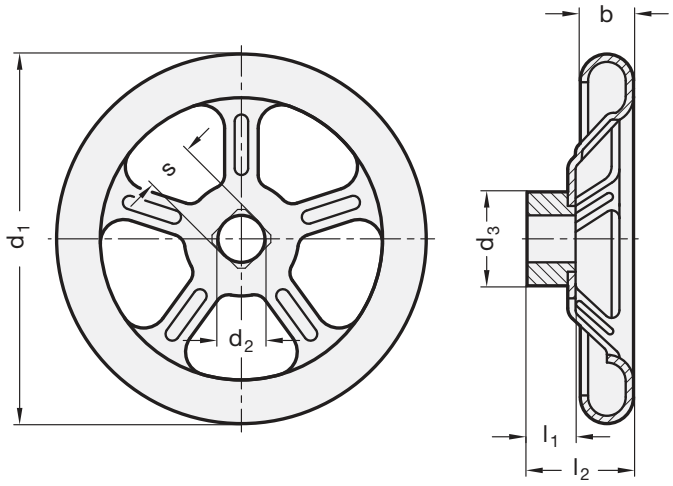
The hub lengths of the pressed steel handwheels GN 227.1 conform to DIN 950 (see page 140).
Pressed steel handwheels GN 227.1 are renowned for their high mechanical strength. They are not affected by shock and knocks.

ON REQUEST

- with conical square VK
- with revolving handle

TECHNICAL INFORMATION

- Keyway P9 DIN 6885 (see page A16)
- Square DIN 79 (see page A16)
- Cross holes GN 110 (see page A17)
- ISO-Fundamental Tolerances (see page A21)



GN 227.1

Description	d1	d2 H9	s H11	b	d3	l1	l2 ≈	No. of spokes	Thickness	⚖
GN 227.1-125-B11-SW	130	11	-	18	30	18	29	3	1.5	300
GN 227.1-125-K11-SW	125	11	-	18	30	18	29	3	1.5	325
GN 227.1-125-V11-SW	125	-	V 11	18	30	18	29	3	1.5	280
GN 227.1-160-B12-SW	160	12	-	22	30	20	37	4	1.5	400
GN 227.1-160-K12-SW	160	12	-	22	30	20	37	4	1.5	380
GN 227.1-160-V12-SW	160	-	V 12	22	30	20	37	4	1.5	360
GN 227.1-200-B14-SW	200	14	-	22	40	24	46	4	2.5	850
GN 227.1-200-K14-SW	200	14	-	22	40	24	46	4	2.5	830
GN 227.1-200-V14-SW	200	-	V 14	22	40	24	46	4	2.5	785
GN 227.1-250-B17-SW	250	17	-	30	45	28	52	5	2.5	1520
GN 227.1-250-K17-SW	250	17	-	30	45	28	52	5	2.5	1470
GN 227.1-250-V17-SW	250	-	V 17	30	45	28	52	5	2.5	1460
GN 227.1-315-B19-SW	315	19	-	35	55	33	64	5	2.5	2350
GN 227.1-315-K19-SW	315	19	-	35	55	33	64	5	2.5	2340
GN 227.1-315-V19-SW	315	-	V 19	35	55	33	64	5	2.5	2280
GN 227.1-400-B24-SW	400	24	-	40	65	38	82	5	3	4140
GN 227.1-400-K24-SW	400	24	-	40	65	38	82	5	3	4100
GN 227.1-400-V24-SW	400	-	V 24	40	65	38	82	5	3	4070

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GN 227

RoHS

Pressed steel handwheels

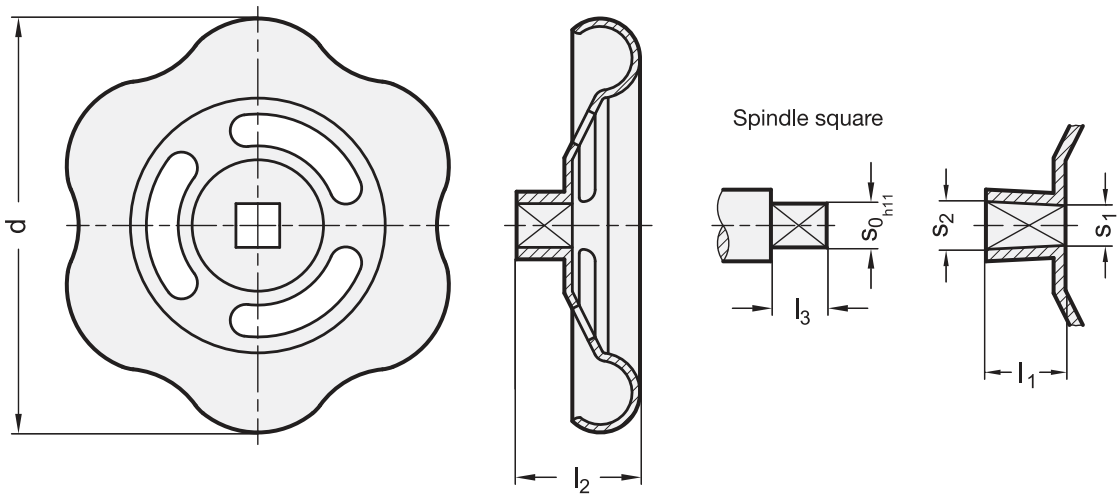
for valves

SPECIFICATION

Pressed steel
plastic coated
black, RAL 9005 **SW**
red, RAL 3000 **RT**
uncoated **RH**

INFORMATION

Pressed steel handwheels GN 227 have been specially developed for valves and they offer definite advantages:
They consist of a single unwelded piece of pressed sheet metal manufactured by a special process to give a reinforced hub. They offer high mechanical strength and are not affected by shocks and knocks.
They are resistant to temperature and fire and not weakened by any ageing process.
The slightly tapered square hole allows easy installation and firm seating on a spindle.



* Complete with colour index of the Handwheels (SW, RT or RH)

SW	RT	RH
RAL 9005	RAL 3000	uncoated

GN 227

Description	d	s0	s1 -0.1	s2 -0.1	l1 ±0.5	l2	l3 -1	No. of spokes	⚖
GN 227-50-V6-*	50	V 6	5.8	6.15	9	15.5	8	3	20
GN 227-50-V7-*	50	V 7	6.8	7.15	9	15.5	8	3	20
GN 227-60-V6-*	60	V 6	5.8	6.15	9	16.5	8	3	29
GN 227-60-V7-*	60	V 7	6.8	7.15	10	17.5	9	3	29
GN 227-70-V7-*	70	V 7	6.8	7.15	10	19	9	3	39
GN 227-70-V8-*	70	V 8	7.8	8.15	10	19	9	3	37
GN 227-80-V8-*	80	V 8	7.8	8.15	11	20	10	3	59
GN 227-80-V9-*	80	V 9	9	9.15	12	20	11	3	56
GN 227-90-V9-*	90	V 9	8.8	9.15	12	24	11	3	76
GN 227-100-V9-*	100	V 9	9	9.2	13	24	12	4	101
GN 227-100-V10-*	100	V 10	9.8	10.2	13	24	12	4	101
GN 227-120-V11-*	120	V 11	11	11.2	14	31	13	4	165
GN 227-120-V12-*	120	V 12	12	12.25	16	32.5	14	4	165
GN 227-140-V12-*	140	V 12	12	12.25	16	32.5	14	4	215
GN 227-160-V14-*	160	V 14	14	14.25	20	37	18	4	280

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GN 227.4

Stainless Steel-Handwheels

AISI 316L (A4)

SPECIFICATION

Type

- Type **A**: without handle

Bore codes

- Version **B**: without keyway
- Version **K**: with keyway
- Version **V**: with square

Stainless Steel A4

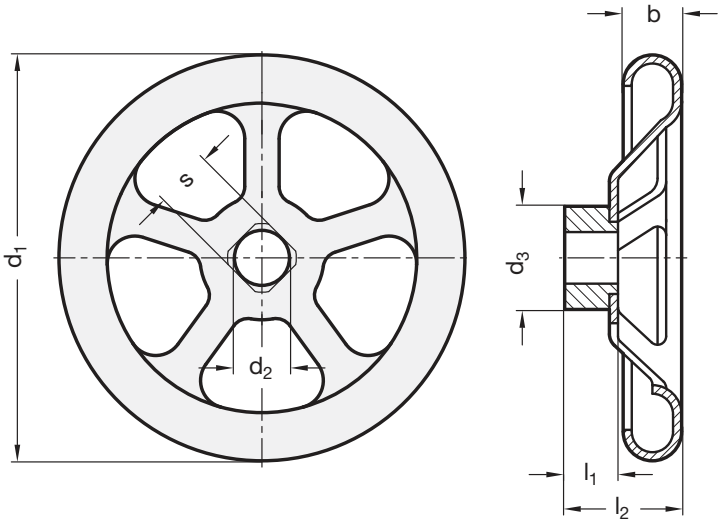
- AISI 316L
- matt shot-blasted
- Wheel body, pressed Stainless Steel
- Hub welded

INFORMATION

The hub lengths of the pressed Stainless Steel-Handwheels GN 227.4 conform to DIN 950 (see page 140).
Stainless Steel-Handwheels GN 227.4 are renowned for their high mechanical strength. They are not affected by shock and knocks.
Stainless Steel-Handwheels GN 227.4 (A4 quality) are only available in type A (without handle).

TECHNICAL INFORMATION

- Keyway P9 DIN 6885 (see page A16)
- Square DIN 79 (see page A16)
- Cross holes GN 110 (see page A17)
- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)



GN 227.4 **STAINLESS STEEL**

Description	d1	d2 H9	s H11	b	d3	l1	l2 ≈	No. of spokes	Thickness	⚖
GN 227.4-160-B12-A	160	12	-	22	30	20	39	4	2	431
GN 227.4-160-K12-A	160	12	-	22	30	20	39	4	2	430
GN 227.4-160-V12-A	160	-	V 12	22	30	20	39	4	2	431
GN 227.4-200-B14-A	200	14	-	22	40	24	44	4	2.5	812
GN 227.4-200-K14-A	200	14	-	22	40	24	44	4	2.5	812
GN 227.4-200-V14-A	200	-	V 14	22	40	24	44	4	2.5	800
GN 227.4-250-B17-A	250	17	-	30	45	28	52	5	3	1470
GN 227.4-250-K17-A	250	17	-	30	45	28	52	5	3	1470
GN 227.4-250-V17-A	250	-	V 17	30	45	28	52	5	3	1400
GN 227.4-315-B19-A	315	19	-	36	55	33	64	5	3	2300
GN 227.4-315-K19-A	315	19	-	36	55	33	64	5	3	2300
GN 227.4-315-V19-A	315	-	V 19	36	55	33	64	5	3	2250
GN 227.4-400-B24-A	400	24	-	43	65	38	81	5	3	4300
GN 227.4-400-K24-A	400	24	-	43	65	38	81	5	3	4300
GN 227.4-400-V24-A	400	-	V 24	43	65	38	81	5	3	4250

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RoHS PP +80° 0°

Monospoke handwheels

Technopolymer

MATERIAL
Glass-fibre reinforced polypropylene based (PP) technopolymer black colour, matte finish.

BOSS CAP
Polyester based technopolymer (PBT) in Ergostyle colours, glossy finish, press-fit mounting.
Available also as accessory sold separately (see table ECB.).

Code	Description	Boss cap for
29451-*	ECB.I3-*	EMW.350

* Complete with colour index (C1, ..., C6).

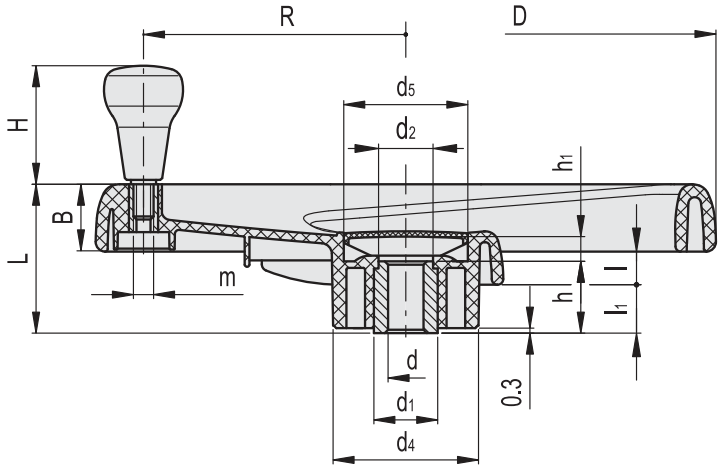
STANDARD EXECUTIONS
Black-oxide steel boss, H7 reamed hole.
- **EMW+IEL:** with revolving handle IEL+x-SOFT (see page 572) in technopolymer coated with "Soft touch" thermoplastic elastomer (TPE).
- **EMW+IR:** with fold-away handle IR.620 (see page 584) in technopolymer.

ACCESSORIES ON REQUEST
Axial retaining washer GN 184 (see page 971).

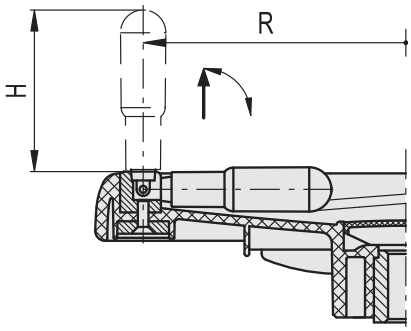
SPECIAL EXECUTIONS ON REQUEST
Bosses with hole and keyway in compliance with DIN 6885/1 tolerance P9 (see page A16).
To order the handwheel with keyway complete code and description with the index -K (i.e. 204611-K- EMW.350+IEL A-20-K).
For sufficient quantities: executions with locking device (Elesa patent) (see page 155).

ERGOSTYLE® design award 2005

EMW+IEL



EMW+IR



*Complete with colour index, example: 204611-C2 EMW.350+IEL A-20-C2

C1 RAL7021 | C2 RAL2004 | C3 RAL7035 | C4 RAL1021 | C5 RAL5024 | C6 RAL3000

EMW+IEL

Code	Description	D	dH7	L	B	d1	d2	d4	d5	l	l1	h	h1	H	m	R	C# [Nm]	L# [J]	⚖
204611-*	EMW.350+IEL-A-20-*	350	20	82	38	35	33	82	70	19	25	38	14	65	M10	148	380	14	1195

EMW+IR

Code	Description	D	dH7	L	B	d1	d2	d4	d5	l	l1	h	h1	H	R	C# [Nm]	L# [J]	⚖
204711-*	EMW.350+IR-A-20-*	350	20	82	38	35	33	82	70	19	25	38	14	90	148	380	14	1240

For maximum torque (C) and impact strength (L) see Technical Data on page A3.

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Three-arm handwheels

Technopolymer

MATERIAL
Glass-fibre reinforced polypropylene based (PP) technopolymer, black colour, matte finish.

BOSS CAP
Polyester based technopolymer (PBT) in Ergostyle colours, glossy finish, press-fit mounting.
Available also as accessory sold separately (see table ECB.).

Code	Description	Boss cap for
29451-*	ECB.I3-*	EYK.275/400

* Complete with colour index (C1, ..., C6).

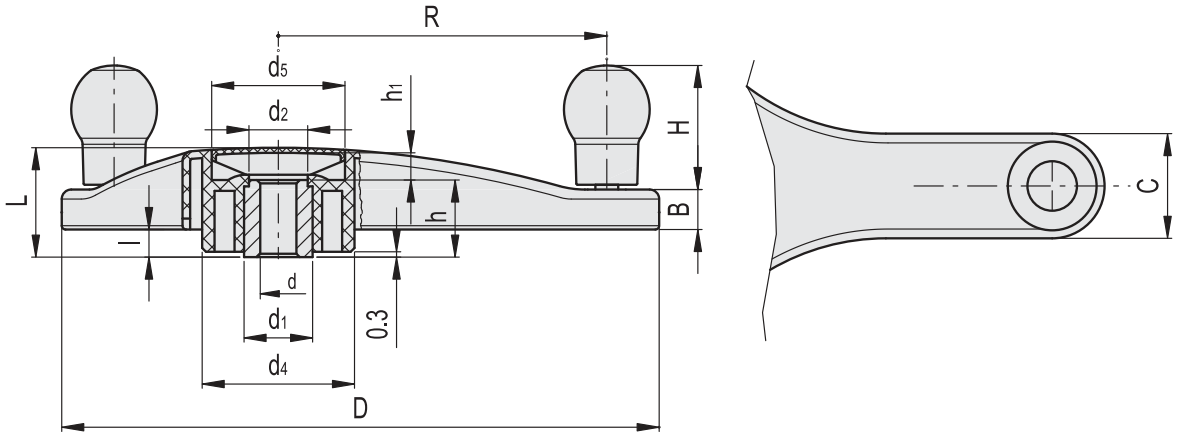
STANDARD EXECUTION
Black-oxide steel boss, H7 reamed hole.
Revolving handle EBS+x (see page 570) in technopolymer, not removable.

ACCESSORIES ON REQUEST
Axial retaining washer GN 184 (see page 971).

SPECIAL EXECUTION ON REQUEST
Black-oxide steel bosses with hole and keyway in compliance with DIN 6885/1 tolerance P9 (see page A16).
To order the handwheel with keyway add the index -K after the code and the description (i.e. 208311-K- EYK.400+I A-20-K-).
For sufficient quantities: executions with locking device (Elesa patent) (see page 155).
ETK. steering handwheel can be customised with marks, logo or special graphics (tampoprinting). The handwheels or handles can be supplied also in special coloured technopolymer.

ERGOSTYLE®

ERGONOMY AND DESIGN
The three equidistant arms (120°) offer a perfect grip and the greatest operational easiness, also to disable people. The rounded lines, the special compact and ergonomic shape of EYK. handwheel design together with the absence of cavities offer an excellent level of safety for hands during the steering operations.



*Complete with colour index, example: 208111-C2 EYK.275+I A-20-C2

C1 RAL7021 | C2 RAL2004 | C3 RAL7035 | C4 RAL1021 | C5 RAL5024 | C6 RAL3000

Code	Description	D	dH7	L	B	d1	d2	d4	d5	h	h1	l	C	H	R	C# [Nm]	L# [J]	⚖
208111-*	EYK.275+I A-20-*	275	20	54	21	35	33	76	70	38	14	19.5	50	65	112.5	270	12	769
208311-*	EYK.400+I A-20-*	400	20	54	21	35	33	80	70	38	14	12	55	65	172.5	270	16	955

For maximum applicable torque (C) and impact strength (L) see Technical Data on page A3.

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Three-arm handwheel

Technopolymer

MATERIAL
Glass-fibre reinforced polypropylene based (PP) technopolymer, black colour, matte finish.

BOSS CAP
Polyester based technopolymer (PBT) in Ergostyle colours, glossy finish, press-fit mounting.
Available also as accessory sold separately (see table ECB.).

Code	Description	Boss cap for
29451-*	ECB.I3-*	ETK.400

* Complete with colour index (C1, ..., C6).

STANDARD EXECUTION
Black-oxide steel boss, H7 reamed hole.
Revolving handle I.631+x (see page 580) in technopolymer, not removable.

SPECIAL EXECUTIONS ON REQUEST
Bosses with hole and keyway in compliance with DIN 6885/1 tolerance P9 (see page A16).
To order the handwheel with keyway add the index -K after the code and the description (i.e. 207731-K- ETK.400+I A-20-K-).
For sufficient quantities: executions with locking device (Elesa patent), (see page 155).
The three-arm handwheels can be customised with marks, logo or special graphics (tampoprinting). The handwheels or handles can be supplied also in special coloured technopolymer.

ACCESSORIES ON REQUEST
Axial retaining washer GN 184 (see page 971).

ERGONOMY AND DESIGN
The three equidistant arms (120°) offer a perfect grip and the greatest operational easiness, also to disabled people. The rounded lines, the special compact and ergonomic shape of ETK. handwheel design together with the absence of cavities offer an excellent level of safety for hands during the steering operations.

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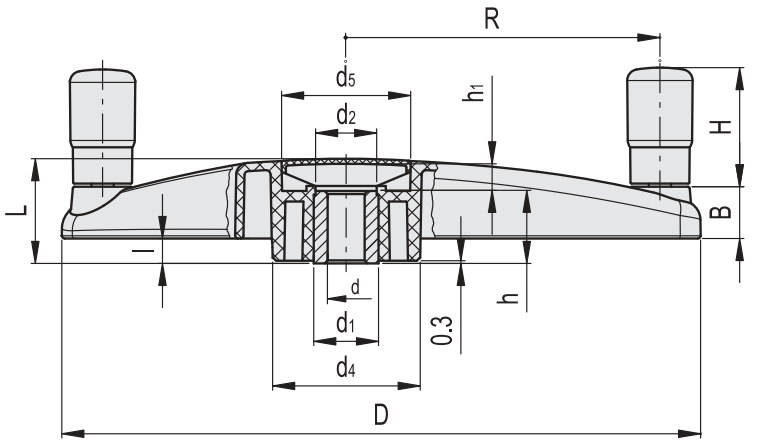

*Complete with colour index, example: 207731-C2 ETK.400+I A-20-C2

C1 RAL7021 | C2 RAL2004 | C3 RAL7035 | C4 RAL1021 | C5 RAL5024 | C6 RAL3000

Code	Description	D	dH7	L	B	d1	d2	d4	d5	h	h1	l	H	R	C# [Nm]	L# [J]	⚖
207731-*	ETK.400+I A-20-*	400	20	54	28	35	33	80	70	38	14	12	65	178	320	18	980

For maximum applicable torque (C) and impact strength (L) see Technical Data on page A3.

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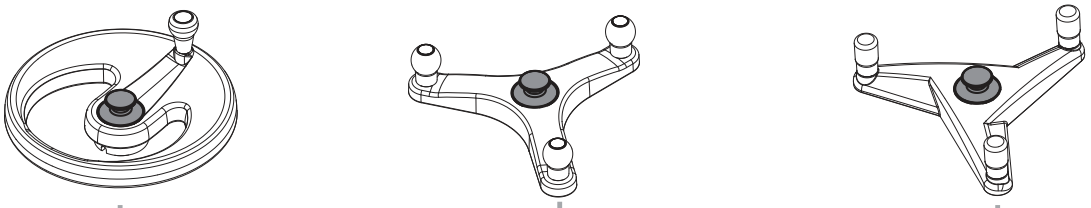
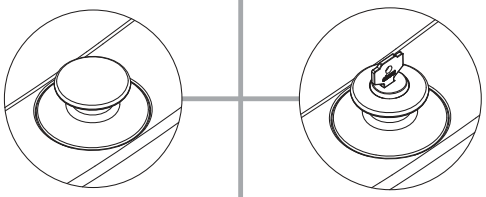
Executions on request with locking and status indicators

Elesa European and US patent

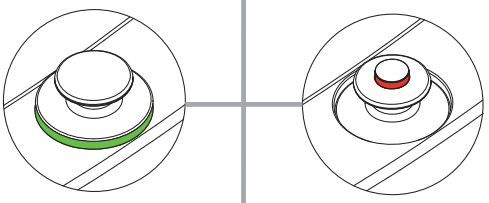


- **L Simple actuator**
  By pressing the actuator the rotation of the handwheel locks. Also available with label customizable with graphic symbols, marks or special graphics.



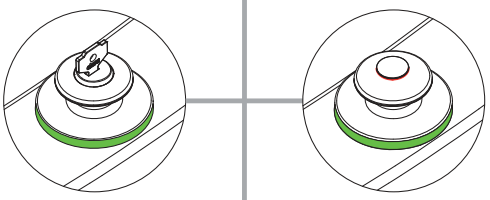
- **L-K Actuator with lock**
  By pressing the actuator the rotation of the handwheel locks. By turning the key by 180° the actuator remains in the locked position.

- **LCV Actuator with green collar**
  The green collar indicates that the handwheel is free and it can be operated. By pressing the actuator the rotation of the handwheel locks (the green collar is no longer visible).



- **L-R Actuator with red ring**
  By pressing the actuator the rotation of the handwheel locks. The red ring comes out from the actuator and indicates that the handwheel is locked.

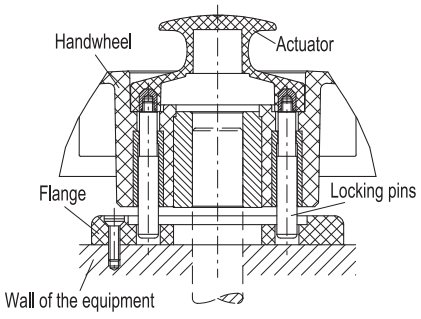
- **LCV-K Actuator with green collar and lock**
  The green collar indicates that the handwheel is free and it can be operated. By pressing the actuator the rotation of the handwheel locks (the green collar is no longer visible). By turning the key by 180° the actuator remains in the locked position.



- **LCV-R Actuator with green collar and red ring**
  The green collar indicates that the handwheel is free and it can be operated (the red ring is not visible).
  By pressing the actuator the rotation of the handwheel locks. The red ring comes out from the actuator and indicates that the handwheel is locked (the green collar is no longer visible).

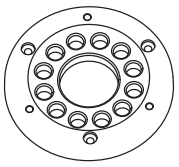
- **PHCV "Push-push" actuator with green collar**
  The green collar indicates that the handwheel is free and it can be operated. By pressing the actuator the rotation of the handwheel locks or unlocks. It is the ideal solution also for disabled operators according to ADA regulations (Americans with Disability Act).

- **PHCV-R "Push-push" actuator with green collar and red ring**
  The green collar indicates that the handwheel is free and it can be operated (the red ring is not visible).
  By pressing the actuator the rotation of the handwheel locks or unlocks. The red ring comes out from the actuator and indicates that the handwheel is locked (the green collar is no longer visible). It is the ideal solution also for disabled operators according to ADA regulations (Americans with Disability Act).



Fitting to shaft by means of a transversal screw

- **FF Locking flange (accessory)**
  Polyamide-based SUPER-technopolymer (PA), black colour, matte finish. The flange is provided with 12 holes (radially positioned every 30 °) for the engagement of the locking pins of the handwheel. Mounting of the flange on the wall of the equipment by means of 3 holes for countersunk head screws. Additional 3 holes to position any reference pin.



- **PP Pre-loaded pins**
  Locking pins with preloading spring for automatic fitting into the locking holes (Applicable to all executions).

To request the handwheels with locking device, contact Elesa sales office specifying: type of handwheel (eg. EYK.), locking device (eg. LCV), any pre-loaded pin (PP) and locking flange (FF).

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Solid handwheels

Technopolymer

MATERIAL
High-resilience polypropylene based (PP) technopolymer, black colour, matte finish.

BOSS CAP
Acetal resin based (POM) technopolymer, light-grey colour, push-fit assembly.

STANDARD EXECUTIONS
Black-oxide steel boss, H7 reamed hole.
- **VDS.:** without handle.
- **VDS+I:** with revolving handle I.621+x (see page 576) in technopolymer.
- **VDS+IEL:** with revolving handle IEL+x-SOFT (see page 572) in technopolymer coated with "Soft touch" thermoplastic elastomer (TPE).
- **VDS+IR:** with fold-away handle IR.620 (see page 584) in technopolymer.
- **VDS+IRS:** with safety fold-away handle IRS.820 (see page 589) in technopolymer.

AISI 304 stainless steel boss, H7 reamed hole.
- **VDS-SST**: without handle.
- **VDS+I-SST**: with revolving handle I.621+x-SST (see page 576) in technopolymer.
- **VDS+IR-SST**: with fold-away handle IR.620-SST (see page 584) in technopolymer.
- **VDS+IRS-SST**: with safety fold-away handle IRS.820-SST (see page 589) in technopolymer.

SPECIAL EXECUTIONS ON REQUEST
Bosses with hole and keyway in compliance with DIN 6885/1tolerance P9 (see page A16).
To order the handwheel with keyway add the index -K after the code and the description (i.e. 72661-R-K VDS.100 A-10-K).

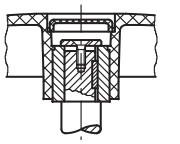
ACCESSORIES ON REQUEST
- Axial retaining washer in black-oxide steel GN 184 (see page 971) or in AISI 303 stainless steel GN 184.5 (see page 971).
- VDS.125, VDS.150 and VDS.175 are available also with technopolymer boss caps in one of the Ergostyle colours (see ECB. table).

ELESA Original design

Code	Description	Boss cap for
29582-*	ECB.D2-*	VDS.125
29583-*	ECB.D3-*	VDS.150
29584-*	ECB.D4-*	VDS.175

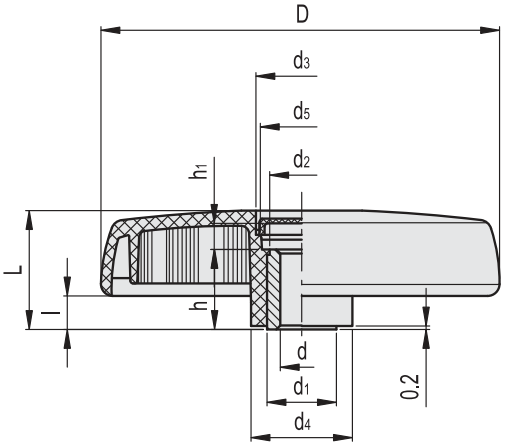
* Complete with colour index (C1, ..., C6).

C1	C2	C3	C4	C5	C6
RAL7021	RAL2004	RAL7035	RAL1021	RAL5024	RAL3000

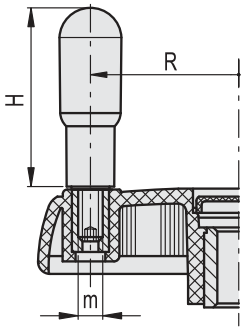


Assembly example
with keyway and axial set screw

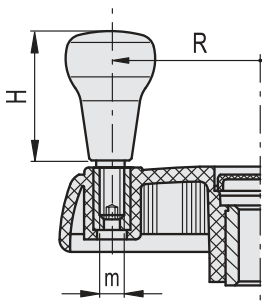
VDS.
VDS-SST



VDS+I
VDS+I-SST



VDS+IEL



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VDS.

Code	Description	D	dH7	L	d1	d2	d3	d4	d5	l	h	h1	C# [Nm]	L# [J]	⚖
72641-R	VDS.80-A-8	83	8	29	18	16	21	26	19	9	17	8	34	6	84
72642-R	VDS.80-A-10	83	10	29	18	16	21	26	19	9	17	8	34	6	86
72660-R	VDS.100 A-8	102	8	34	22	20	27	30	25	10	22	9	60	13	145
72661-R	VDS.100 A-10	102	10	34	22	20	27	30	25	10	22	9	60	13	140
72662-R	VDS.100 A-12	102	12	34	22	20	27	30	25	10	22	9	60	13	135
72740-R	VDS.150 A-8	150	8	44	26	24	34	38	30	12	30	10	180	26	335
72741-R	VDS.150 A-14	150	14	44	26	24	34	38	30	12	30	10	180	26	315
72840-R	VDS.200 A-8	200	8	53	40	38	44	50	40	14	36	13	320	27	620
72841-R	VDS.200 A-20	200	20	53	40	38	44	50	40	14	36	13	320	27	590

VDS-SST

STAINLESS STEEL

Code	Description	D	dH7	L	d1	d2	d3	d4	d5	l	h	h1	C# [Nm]	L# [J]	⚖
72665-R	VDS.100-SST-10	102	10	34	22	20	27	30	25	10	22	9	60	13	141
72745-R	VDS.150-SST-14	150	14	44	26	24	34	38	30	12	30	10	180	26	318
72845-R	VDS.200-SST-20	200	20	53	40	38	44	50	40	14	36	13	320	27	596

VDS+I

Code	Description	D	dH7	L	d1	d2	d3	d4	d5	l	h	h1	H	m	R	C# [Nm]	L# [J]	⚖
72651-R	VDS.80+I A-8	83	8	29	18	16	21	26	19	9	17	8	45	M6	30.5	34	6	106
72652-R	VDS.80+I A-10	83	10	29	18	16	21	26	19	9	17	8	45	M6	30.5	34	6	108
72670-R	VDS.100+I A-8	102	8	34	22	20	27	30	25	10	22	9	60	M6	39	60	13	180
72671-R	VDS.100+I A-10	102	10	34	22	20	27	30	25	10	22	9	60	M6	39	60	13	174
72672-R	VDS.100+I A-12	102	12	34	22	20	27	30	25	10	22	9	60	M6	39	60	13	168
72700-R	VDS.125+I A-8	125	8	39.5	26	24	31	35	28	11	27	11	60	M6	49	125	25	282
72701-R	VDS.125+I A-12	125	12	39.5	26	24	31	35	28	11	27	11	60	M6	49	125	25	270
72702-R	VDS.125+I A-14	125	14	39.5	26	24	31	35	28	11	27	11	60	M6	49	125	25	258
72750-R	VDS.150+I A-8	150	8	44	26	24	34	38	30	12	30	10	65	M8	56.5	180	26	399
72751-R	VDS.150+I A-14	150	14	44	26	24	34	38	30	12	30	10	65	M8	56.5	180	26	379
72752-R	VDS.150+I A-16	150	16	44	26	24	34	38	30	12	30	10	65	M8	56.5	180	26	359
72800-R	VDS.175+I A-8	176	8	49	35	33	39	44	35	13	28	16	80	M10	70	195	26	530
72801-R	VDS.175+I A-16	176	16	49	35	33	39	44	35	13	28	16	80	M10	70	195	26	500
72802-R	VDS.175+I A-20	176	20	49	35	33	39	44	35	13	28	16	80	M10	70	195	26	470
72850-R	VDS.200+I A-8	200	8	53	40	38	44	50	40	14	36	13	90	M10	81	320	27	714
72851-R	VDS.200+I A-20	200	20	53	40	38	44	50	40	14	36	13	90	M10	81	320	27	674
72852-R	VDS.200+I A-24	200	24	53	40	38	44	50	40	14	36	13	90	M10	81	320	27	634
72911-R	VDS.250+I A-20	250	20	60	40	38	50	57	48	17	36	19	90	M10	104	500	30	934
72961-R	VDS.300+I A-20	300	20	66	40	36.5	68.5	72	66	20	44	20	90	M10	124	500	30	1260

VDS+I-SST

STAINLESS STEEL

Code	Description	D	dH7	L	d1	d2	d3	d4	d5	l	h	h1	H	m	R	C# [Nm]	L# [J]	⚖
72675-R	VDS.100+I-SST-10	102	10	34	22	20	27	30	25	10	22	9	60	M6	39	60	13	175
72705-R	VDS.125+I-SST-12	125	12	42	26	24	31	35	28	11	27	11	60	M6	49	125	25	273
72755-R	VDS.150+I-SST-14	150	14	44	26	24	34	38	30	12	30	10	65	M8	56.5	180	26	383
72855-R	VDS.200+I-SST-20	200	20	53	40	38	44	50	40	14	36	13	90	M10	81	320	27	681

VDS+IEL

Code	Description	D	dH7	L	d1	d2	d3	d4	d5	l	h	h1	H	m	R	C# [Nm]	L# [J]	⚖
72966-R	VDS.300+IEL A-20	300	20	66	40	36.5	68.5	72	66	20	44	20	65	M10	124	500	30	1270

For maximum torque (C) and impact strength (L) see Technical Data on page A3.

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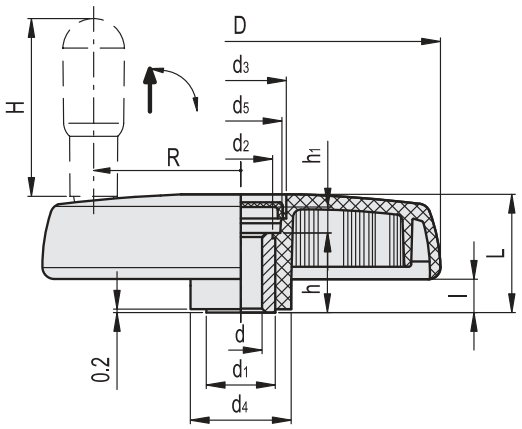
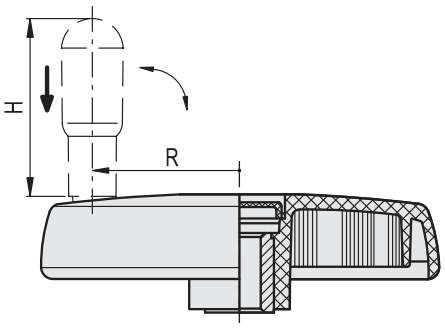
VDS+IR
VDS+IR-SST



VDS+IRS
VDS+IRS-SST



VDS+IR

Code	Description	D	dH7	L	d1	d2	d3	d4	d5	l	h	h1	H	R	C# [Nm]	L# [J]	⚖
72656-R	VDS.80+IR A-8	83	8	38	18	16	16.5	25	13.5	18.5	17	3.5	45	28	34	6	133
72657-R	VDS.80+IR A-10	83	10	38	18	16	16.5	25	13.5	18.5	17	3.5	45	28	34	6	129
72680-R	VDS.100+IR A-8	102	8	34	22	20	27	30	25	10	22	9	45	39	60	14	177
72681-R	VDS.100+IR A-10	102	10	34	22	20	27	30	25	10	22	9	45	39	60	14	170
72682-R	VDS.100+IR A-12	102	12	34	22	20	27	30	25	10	22	9	45	39	60	14	163
72710-R	VDS.125+IR A-8	125	8	39.5	26	24	31	35	28	11	27	11	60	49	125	14	311
72711-R	VDS.125+IR A-12	125	12	39.5	26	24	31	35	28	11	27	11	60	49	125	14	307
72712-R	VDS.125+IR A-14	125	14	39.5	26	24	31	35	28	11	27	11	60	49	125	14	303
72760-R	VDS.150+IR A-8	150	8	44	26	24	34	38	30	12	30	10	65	56.5	180	15	450
72761-R	VDS.150+IR A-14	150	14	44	26	24	34	38	30	12	30	10	65	56.5	180	15	432
72762-R	VDS.150+IR A-16	150	16	44	26	24	34	38	30	12	30	10	65	56.5	180	15	415
72810-R	VDS.175+IR A-8	176	8	49	35	33	39	44	35	13	28	16	80	70	195	20	588
72811-R	VDS.175+IR A-16	176	16	49	35	33	39	44	35	13	28	16	80	70	195	20	577
72812-R	VDS.175+IR A-20	176	20	49	35	33	39	44	35	13	28	16	80	70	195	20	565
72860-R	VDS.200+IR A-8	200	8	53	40	38	44	50	40	14	36	13	90	81	320	27	750
72861-R	VDS.200+IR A-20	200	20	53	40	38	44	50	40	14	36	13	90	81	320	27	710
72862-R	VDS.200+IR A-24	200	24	53	40	38	44	50	40	14	36	13	90	81	320	27	670
72921-R	VDS.250+IR A-20	250	20	60	40	38	50	57	48	17	36	19	90	104	500	30	997
72971-R	VDS.300+IR A-20	300	20	66	40	36.5	68.5	72	66	20	44	20	90	124	500	30	1375

VDS+IR-SST — **STAINLESS STEEL**

Code	Description	D	dH7	L	d1	d2	d3	d4	d5	l	h	h1	H	R	C# [Nm]	L# [J]	⚖
72685-R	VDS.100+IR-SST-10	102	10	34	22	20	27	30	25	10	22	9	45	39	60	14	171
72715-R	VDS.125+IR-SST-12	125	12	42	26	24	31	35	28	11	27	11	60	49	125	14	310
72765-R	VDS.150+IR-SST-14	150	14	44	26	24	34	38	30	12	30	10	65	56.5	180	15	436
72865-R	VDS.200+IR-SST-20	200	20	53	40	38	44	50	40	14	36	13	90	81	320	27	717

VDS+IRS

Code	Description	D	dH7	L	d1	d2	d3	d4	d5	l	h	h1	H	R	C# [Nm]	L# [J]	⚖
72770-R	VDS.150+IRS A-8	150	8	44	26	24	34	38	30	12	30	10	65	56.5	180	15	455
72771-R	VDS.150+IRS A-14	150	14	44	26	24	34	38	30	12	30	10	65	56.5	180	15	445
72772-R	VDS.150+IRS A-16	150	16	44	26	24	34	38	30	12	30	10	65	56.5	180	15	435
72820-R	VDS.175+IRS A-8	176	8	49	35	33	39	44	35	13	28	16	80	70	195	20	590
72821-R	VDS.175+IRS A-16	176	16	49	35	33	39	44	35	13	28	16	80	70	195	20	580
72822-R	VDS.175+IRS A-20	176	20	49	35	33	39	44	35	13	28	16	80	70	195	20	570
72870-R	VDS.200+IRS A-8	200	8	53	40	38	44	50	40	14	36	13	90	81	320	27	770
72871-R	VDS.200+IRS A-20	200	20	53	40	38	44	50	40	14	36	13	90	81	320	27	730
72872-R	VDS.200+IRS A-24	200	24	53	40	38	44	50	40	14	36	13	90	81	320	27	690
72931-R	VDS.250+IRS A-20	250	20	60	40	38	50	57	48	17	36	19	90	104	500	30	955
72981-R	VDS.300+IRS A-20	300	20	66	40	36.5	68.5	72	66	20	44	20	90	124	500	30	1285

VDS+IRS-SST — **STAINLESS STEEL**

Code	Description	D	dH7	L	d1	d2	d3	d4	d5	l	h	h1	H	R	C# [Nm]	L# [J]	⚖
72775-R	VDS.150+IRS-SST-14	150	14	44	26	24	34	38	30	12	30	10	65	56.5	180	15	450
72875-R	VDS.200+IRS-SST-20	200	20	53	40	38	44	50	40	14	36	13	90	81	320	27	737

For maximum torque (C) and impact strength (L) see Technical Data on page A3.

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Solid handwheels

Technopolymer

ELESA Original design 2003

MATERIAL
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

BOSS CAP
Acetal resin based (POM) technopolymer, black colour, matte finish, push-fit assembly.

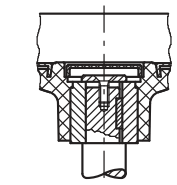
RING
Matte anodised aluminium.
(ELESA original design - Reg. U.S. Pat.& TM Off.)

STANDARD EXECUTIONS
Black-oxide steel boss, H7 reamed hole.
- **VDT.:** without handle.
- **VDT+I:** with revolving handle I.621+x (see page 576) in technopolymer.
- **VDT+IR:** with fold-away handle IR.620 (see page 584) in technopolymer.

SPECIAL EXECUTIONS ON REQUEST
Black-oxide steel bosses with hole and keyway in compliance with DIN 6885/1 tolerance P9 (see page A16).
To order the handwheel with keyway complete code and description with the index -K (i.e. 170307-K VDT.100 A-10-K).

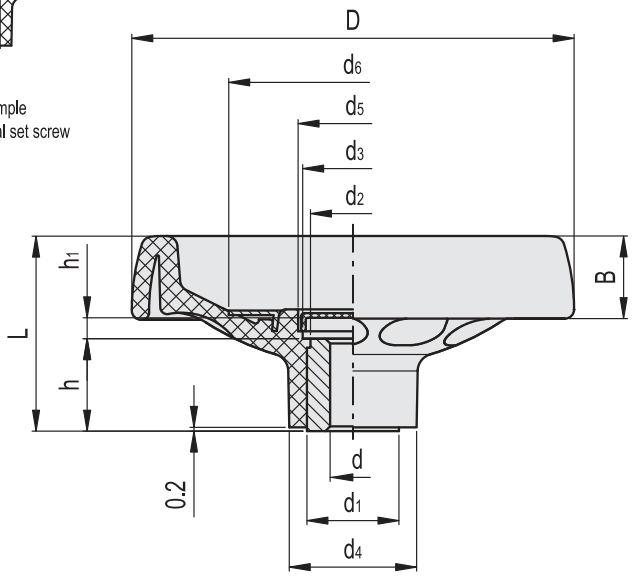
ACCESSORIES ON REQUEST
Axial retaining washer type GN 184 (see page 971).

ERGONOMY
The rim with internal rear scallops makes the grip and the manoeuvre of the handwheel easier.



Assembly example
with keyway and axial set screw

VDT.



VDT.

Code	Description	D	dH7	L	B	d1	d2	d3	d4	d5	d6	h	h1	C# [Nm]	L# [J]	⚖
170307	VDT.100 A-10	100	10	49	22	22	20	26	32	28	54	22	5.5	180	21	155
170505	VDT.125 A-12	125	12	57	24	26	24	28	36	31	70	27	7	200	23	285
170707	VDT.160 A-14	160	14	64	27	35	33	38	46	40	90	28	11	400	25	505
170907	VDT.200 A-20	200	20	68	30	40	38	50	51	52	110	31	9	600	35	730

For maximum torque (C) and impact strength (L) see Technical Data on page A3.

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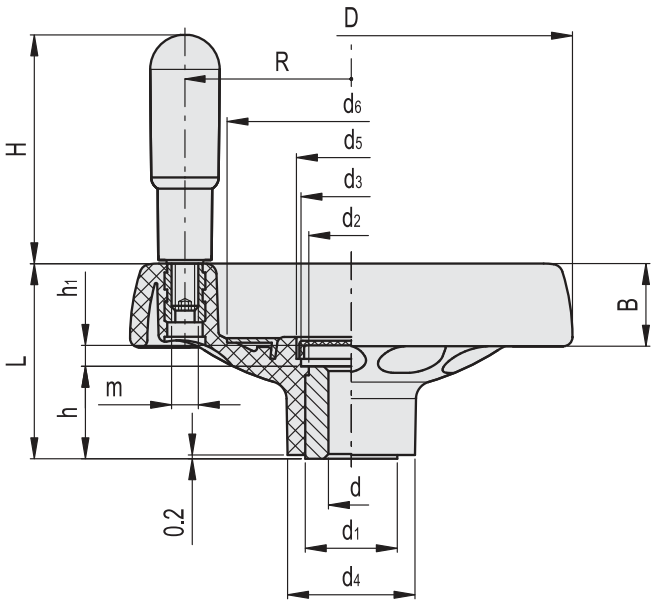
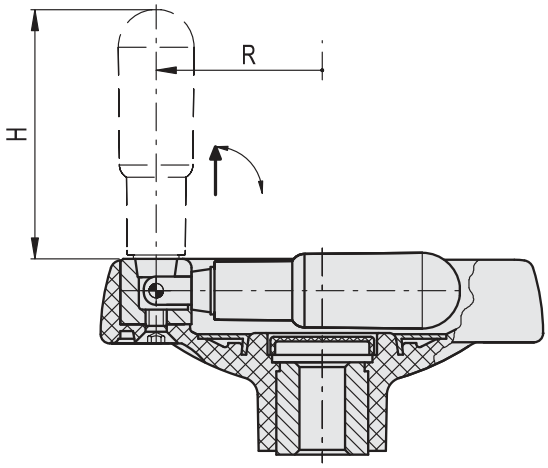
VDT+I



VDT+IR



VDT+I

Code	Description	D	dH7	L	B	d1	d2	d3	d4	d5	d6	h	h1	H	m	R	C# [Nm]	L# [J]	⚖
170317	VDT.100+I A-10	100	10	49	22	22	20	26	32	28	54	22	5.5	60	M6	37	180	21	185
170515	VDT.125+I A-12	125	12	57	24	26	24	28	36	31	70	27	7	65	M8	47	200	23	355
170717	VDT.160+I A-14	160	14	64	27	35	33	38	46	40	90	28	11	80	M8	62	400	25	585
170917	VDT.200+I A-20	200	20	68	30	40	38	50	51	52	110	31	9	90	M10	78	600	35	820

VDT+IR

Code	Description	D	dH7	L	B	d1	d2	d3	d4	d5	d6	h	h1	H	R	C# [Nm]	L# [J]	⚖
170327	VDT.100+IR A-10	100	10	49	22	22	20	26	32	28	54	22	5.5	60	37	180	21	195
170525	VDT.125+IR A-12	125	12	57	24	26	24	28	36	31	70	27	7	65	47	200	23	365
170727	VDT.160+IR A-14	160	14	64	27	35	33	38	46	40	90	28	11	80	62	400	25	600
170927	VDT.200+IR A-20	200	20	68	30	40	38	50	51	52	110	31	9	90	78	600	35	875

For maximum torque (C) and impact strength (L) seeTechnical Data on page A3.

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Solid handwheels

Duroplast

MATERIAL
High-strength, reinforced phenolic based (PF) Duroplast, black colour, glossy finish.

RING
Matte anodised aluminium.
(ELESA Original design - Reg. U.S. Pat. & TM Off.)

STANDARD EXECUTIONS
- **VDN.FP-A**: without handle, black-oxide steel hub, H7 reamed hole.
- **VDN.FP+I-A**: with revolving handle I.301+x (see page 574) in Duroplast. Black-oxide steel hub, H7 reamed hole.
- **VDN.FP+IR-A**: with fold-away handle IR.407 in Duroplast. Black-oxide steel hub, H7 reamed hole.
- **VDN.FP+IRS-A**: with automatic fold-away safety handle "Fold-O-matic"® type IRS.820 (see page 589) in technopolymer. Black-oxide steel hub, H7 reamed hole.
- **VDN.FP**: without handle, black-oxide steel hub, not drilled.
- **VDN.FP-SST**: without handle, AISI 303 stainless steel hub, not drilled.
- **VDN.FP+I**: with revolving handle I.301+x (see page 574) in Duroplast. Black-oxide steel hub, not drilled.
- **VDN.FP+I-SST**: with revolving handle I.301+x-SST (see page 574) in Duroplast. AISI 303 stainless steel hub, not drilled.
- **VDN.FP+IR**: with fold-away handle IR.407 in Duroplast. Black-oxide steel hub, not drilled.

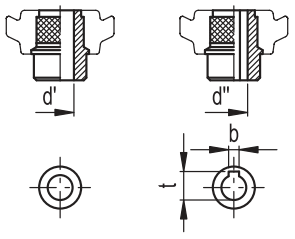
SPECIAL EXECUTIONS ON REQUEST
- Hub with hole and keyway in compliance with DIN 6885/1 tolerance P9 (see page A16)

To order the handwheel with keyway complete code and description with the index -K (i.e. 73710-10-K VDN.100 FP+I-A-10-K).
- Handlwheels with incorporated balancing counterweights.

ACCESSORIES ON REQUEST
Axial retaining washer in black-oxide steel GN 184 (see page 971) or in AISI 303 stainless steel GN 184.5 (see page 971).

ERGONOMY
The rim with internal rear scallops makes the grip and the manoeuvre of the handwheel easier.

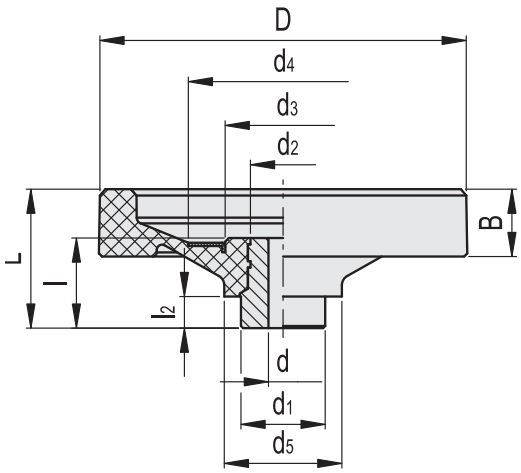
ELESA Original design



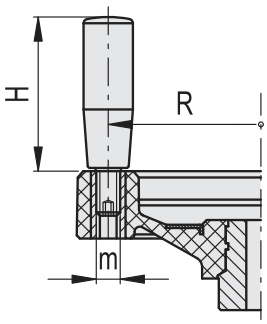
d' Max diameter permissible

d'' Max diameter for hole with keyway

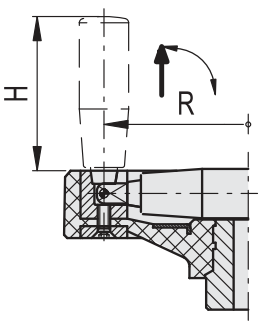
VDN.FP-A



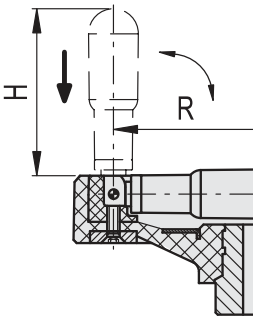
VDN.FP+I-A



VDN.FP+IR-A



VDN.FP+IRS-A



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VDN.FP-A

Code	Description	D	dH7	L	B	d1	d2	d3	d4	d5	l	l2	d'	d''	t	b	C# [Nm]	L# [J]	⚖
73650-10	VDN.50 FP-A-10	50	10	22	12	16	16	-	25	26	19	9	12	10	11.4	3	55	3	50
73670-10	VDN.63 FP-A-10	63	10	28	13	20	20	-	31	28	24	10	13	11	12.8	4	75	4	100
73690-10	VDN.80 FP-A-10	80	10	31	14	20	18	28	43	30	28	10	13	11	12.8	4	120	5	120
73690-12	VDN.80 FP-A-12	80	12	31	14	20	18	28	43	30	28	10	13	11	12.8	4	120	5	115
73709-10	VDN.100 FP-A-10	100	10	40	15	24	22	35	54	39	36	12	16	13	15.3	5	150	6	324
73709-12	VDN.100 FP-A-12	100	12	40	15	24	22	35	54	39	36	12	16	13	15.3	5	150	6	322
73719-12	VDN.125 FP-A-12	125	12	44	15	32	26.5	44	70	46	38	15	20	16	18.3	5	300	8	493
73719-14	VDN.125 FP-A-14	125	14	44	15	32	26.5	44	70	46	38	15	20	16	18.3	5	300	8	490
73723-14	VDN.140 FP-A-14	140	14	46	19	32	26.5	44	70	48	38	15	20	16	18.3	5	350	10	430
73729-14	VDN.150 FP-A-14	150	14	49	18	32	26.5	44	70	48	38	15	20	16	18.3	5	400	14	662
73729-16	VDN.150 FP-A-16	150	16	49	18	32	26.5	44	70	48	38	15	20	16	18.3	5	400	14	659
73739-16	VDN.175 FP-A-16	175	16	54	19	40	33	55	90	56	43	15	26	22	24.8	6	500	16	991
73739-18	VDN.175 FP-A-18	175	18	54	19	40	33	55	90	56	43	15	26	22	24.8	6	500	16	985
73749-18	VDN.200 FP-A-18	200	18	58	21	40	33	55	90	60	43	15	26	22	24.8	6	600	18	1196
73749-20	VDN.200 FP-A-20	200	20	58	21	40	33	55	90	60	43	15	26	22	24.8	6	600	18	1192
73769-22	VDN.250 FP-A-22	249	22	65	25	49	40	66	110	70	44	15	35	27	30.3	8	1000	28	1982
73780-26	VDN.300 FP-A-26	301	26	75	25	58	58	94	148	82	56	18	42	38	41.3	10	1100	35	2685

VDN.FP+I-A

Code	Description	D	dH7	L	B	d1	d2	d3	d4	d5	l	l2	H	m	R	d'	d''	t	b	C# [Nm]	L# [J]	⚖
73651-10	VDN.50 FP+I-A-10	50	10	22	12	16	16	-	25	26	19	9	28	M6	19	12	10	11.4	3	55	3	63
73671-10	VDN.63 FP+I-A-10	63	10	28	13	20	20	-	31	28	24	10	40	M6	24	13	11	12.8	4	75	4	127
73691-10	VDN.80 FP+I-A-10	80	10	31	14	20	18	28	43	30	28	10	40	M6	32	13	11	12.8	4	120	5	157
73691-12	VDN.80 FP+I-A-12	80	12	31	14	20	18	28	43	30	28	10	40	M6	32	13	11	12.8	4	120	5	147
73710-10	VDN.100 FP+I-A-10	100	10	46	21	24	20	35	54	39	33.5	12	50	M6	39	16	13	15.3	5	150	6	361
73710-12	VDN.100 FP+I-A-12	100	12	46	21	24	20	35	54	39	33.5	12	50	M6	39	16	13	15.3	5	150	6	358
73720-12	VDN.125 FP+I-A-12	125	12	57	28	32	26.5	44	70	46	38	15	65	M8	50	20	16	18.3	5	300	8	568
73720-14	VDN.125 FP+I-A-14	125	14	57	28	32	26.5	44	70	46	38	15	65	M8	50	20	16	18.3	5	300	8	565
73724-14	VDN.140 FP+I-A-14	140	14	55	28	32	26.5	44	70	48	38	15	65	M8	58	20	16	18.3	5	350	10	575
73730-14	VDN.150 FP+I-A-14	150	14	61	30	32	26.5	50	80	48	38	15	65	M8	62	20	16	18.3	5	400	14	737
73730-16	VDN.150 FP+I-A-16	150	16	61	30	32	26.5	50	80	48	38	15	65	M8	62	20	16	18.3	5	400	14	734
73740-16	VDN.175 FP+I-A-16	175	16	66	32	40	33	55	90	56	43	15	80	M10	72.5	26	22	24.8	6	500	16	1089
73740-18	VDN.175 FP+I-A-18	175	18	66	32	40	33	55	90	56	43	15	80	M10	72.5	26	22	24.3	6	500	16	1087
73750-18	VDN.200 FP+I-A-18	200	18	68	32	40	33	55	90	60	43	15	90	M10	82	26	22	24.8	6	600	18	1314
73750-20	VDN.200 FP+I-A-20	200	20	68	32	40	33	55	90	60	43	15	90	M10	82	26	22	24.8	6	600	18	1308
73760-20	VDN.225 FP+I-A-20	225	20	71	33	49	40	66	110	66	44.5	15	90	M10	94	34	27	30.3	8	900	25	1708
73760-22	VDN.225 FP+I-A-22	225	22	71	33	49	40	66	110	66	44.5	15	90	M10	94	34	27	30.3	8	900	25	1702
73770-22	VDN.250 FP+I-A-22	249	22	76	36	49	40	66	110	70	44.5	15	90	M10	106	35	27	30.3	8	1000	28	2100
73770-24	VDN.250 FP+I-A-24	249	24	76	36	49	40	66	110	70	44.5	15	90	M10	106	35	27	30.3	8	1000	28	2097
73781-26	VDN.300 FP+I-A-26	301	26	87	36	58	58	94	148	82	56	18	90	M10	132	42	38	41.3	10	1100	35	2803

VDN.FP+IR-A

Code	Description	D	dH7	L	B	d1	d2	d3	d4	d5	l	l2	H	R	d'	d''	t	b	C# [Nm]	L# [J]	⚖
73711-10	VDN.100 FP+IR-A-10	100	10	51	26	24	20	35	54	39	33.5	12	56	37	16	13	15.3	5	150	6	427
73721-12	VDN.125 FP+IR-A-12	125	12	57	28	32	26.5	44	70	46	38	15	56	48	20	16	18.3	5	300	8	596
73731-14	VDN.150 FP+IR-A-14	150	14	61	30	32	26.5	50	80	48	38	15	65	57	20	16	18.3	5	400	14	803
73741-16	VDN.175 FP+IR-A-16	175	16	66	32	40	33	55	90	56	43	15	80	68	26	22	24.8	6	500	16	1147
73751-20	VDN.200 FP+IR-A-20	200	20	68	32	40	33	55	90	60	43	15	90	76.5	26	22	24.8	6	600	18	1462
73761-20	VDN.225 FP+IR-A-20	225	20	71	33	49	40	66	110	66	44.5	15	90	88	34	27	30.3	8	900	25	1856
73771-22	VDN.250 FP+IR-A-22	249	22	76	36	49	40	66	110	70	44.5	15	90	100	35	27	30.3	8	1000	28	2248
73782-26	VDN.300 FP+IR-A-26	301	26	87	36	58	58	94	148	82	56	18	90	124	42	38	41.3	10	1100	35	3212

VDN.FP+IRS-A

Code	Description	D	dH7	L	B	d1	d2	d3	d4	d5	l	l2	H	R	d'	d''	t	b	C# [Nm]	L# [J]	⚖
73732-14	VDN.150 FP+IRS-A-14	150	14	61	30	32	26.5	50	80	48	38	15	65	57	20	16	18.3	5	400	14	733
73742-16	VDN.175 FP+IRS-A-16	175	16	66	32	40	33	55	90	56	43	15	80	68	26	22	24.8	6	500	16	1053
73752-20	VDN.200 FP+IRS-A-20	200	20	68	32	40	33	55	90	60	43	15	90	74.5	26	22	24.8	6	600	18	1252
73762-20	VDN.225 FP+IRS-A-20	225	20	71	33	49	40	66	110	66	44.5	15	90	86	34	27	30.3	8	900	25	1646
73772-22	VDN.250 FP+IRS-A-22	249	22	76	36	49	40	66	110	70	44.5	15	90	98	35	27	30.3	8	1000	28	2038

For maximum torque (C) and impact strength (L) see Technical Data on page A3.

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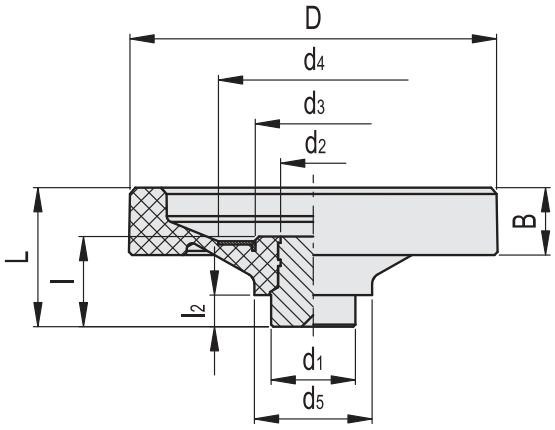
VDN.FP
VDN.FP-SST



VDN.FP

Code	Description	D	L	B	d1	d2	d3	d4	d5	l	l2	d'	d''	t	b	C# [Nm]	L# [J]	⚖
73650	VDN.50 FP	50	22	12	16	16	-	25	26	19	9	12	10	11.4	3	55	3	60
73670	VDN.63 FP	63	28	13	20	20	-	31	28	24	10	13	11	12.8	4	75	4	115
73690	VDN.80 FP	80	31	14	20	18	28	43	30	28	10	13	11	12.8	4	120	5	145
73709	VDN.100 FP	100	40	15	24	22	35	54	39	36	12	16	13	15.3	5	150	6	324
73719	VDN.125 FP	125	44	15	32	26.5	44	70	46	38	15	20	16	18.3	5	300	8	493
73723	VDN.140 FP	140	46	19	32	26.5	44	70	48	38	15	20	16	18.3	5	350	10	465
73729	VDN.150 FP	150	49	18	32	26.5	44	70	48	38	15	20	16	18.3	5	400	14	662
73739	VDN.175 FP	175	54	19	40	33	55	90	56	43	15	26	22	24.8	6	500	16	991
73749	VDN.200 FP	200	58	21	40	33	55	90	60	43	15	26	22	24.8	6	600	18	1196
73759	VDN.225 FP	225	63	23	49	40	66	110	66	44	15	34	27	30.3	8	900	25	1590
73769	VDN.250 FP	249	65	25	49	40	66	110	70	44	15	35	27	30.3	8	1000	28	1982
73780	VDN.300 FP	301	75	25	58	58	94	148	82	56	18	42	38	41.3	10	1100	35	2920
73790	VDN.350 FP	350	92	38	58	58	94	148	90	56	18	42	38	41.3	10	1200	36	3960

VDN.FP-SST **STAINLESS STEEL**

Code	Description	D	L	B	d1	d2	d3	d4	d5	l	l2	d'	d''	t	b	C# [Nm]	L# [J]	⚖
73695	VDN.80 FP-SST	80	31	14	20	18	28	43	30	28	10	13	11	12.8	4	120	5	146
73713	VDN.100 FP-SST	100	40	15	24	22	35	54	39	36	12	16	13	15.3	5	150	6	325
73722	VDN.125 FP-SST	125	44	15	32	26.5	44	70	46	38	15	20	16	18.3	5	300	8	494
73733	VDN.150 FP-SST	150	49	18	32	26.5	44	70	48	38	15	20	16	18.3	5	400	14	663
73753	VDN.200 FP-SST	200	58	21	40	33	55	90	60	43	15	26	22	24.8	6	600	18	1197
73773	VDN.250 FP-SST	249	65	25	49	40	66	110	70	44	15	35	27	30.3	8	1000	28	1982
73785	VDN.300 FP-SST	301	75	25	58	58	94	148	82	56	18	42	38	41.3	10	1100	35	1591

For maximum torque (C) and impact strength (L) see Technical Data on page A3.

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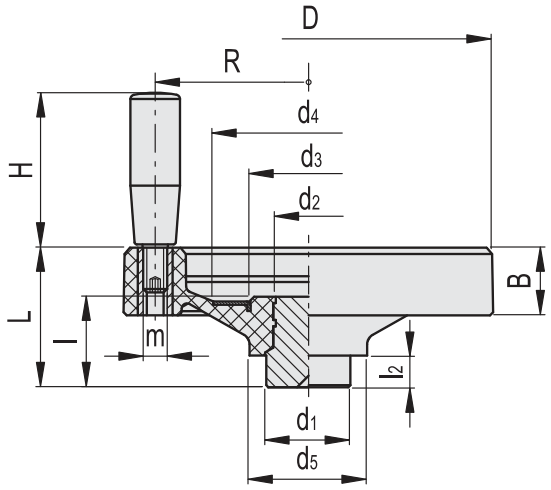
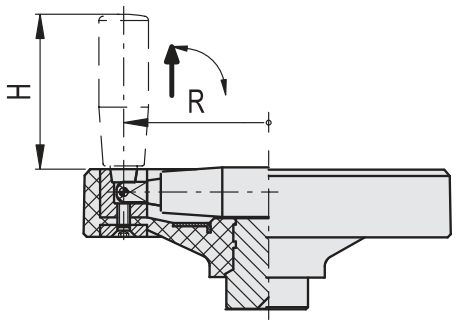
VDN.FP+I
VDN.FP+I-SST



VDN.FP+IR



VDN.FP+I

Code	Description	D	L	B	d1	d2	d3	d4	d5	l	l2	H	m	R	d'	d''	t	b	C# [Nm]	L# [J]	⚖
73651	VDN.50 FP+I	50	22	12	16	16	-	25	26	19	9	28	M6	19	12	10	11.4	3	55	3	88
73671	VDN.63 FP+I	63	28	13	20	20	-	31	28	24	10	40	M6	24	13	11	12.8	4	75	4	172
73691	VDN.80 FP+I	80	31	14	20	18	28	43	30	28	10	40	M6	32	13	11	12.8	4	120	5	207
73710	VDN.100 FP+I	100	46	21	24	20	35	54	39	33.5	12	50	M6	39	16	13	15.3	5	150	6	361
73720	VDN.125 FP+I	125	57	28	32	26.5	44	70	46	38	15	65	M8	50	20	16	18.3	5	300	8	568
73724	VDN.140 FP+I	140	55	28	32	26.5	44	70	48	38	15	65	M8	58	20	16	18.3	5	300	14	575
73730	VDN.150 FP+I	150	61	30	32	26.5	50	80	48	38	15	65	M8	62	20	16	18.3	5	400	14	737
73740	VDN.175 FP+I	175	66	32	40	33	55	90	56	43	15	80	M10	72.5	26	22	24.8	6	500	16	1089
73750	VDN.200 FP+I	200	68	32	40	33	55	90	60	43	15	90	M10	82	26	22	24.8	6	600	18	1314
73760	VDN.225 FP+I	225	71	33	49	40	66	110	66	44.5	15	90	M10	94	34	27	30.3	8	900	25	1708
73770	VDN.250 FP+I	249	76	36	49	40	66	110	70	44.5	15	90	M10	106	35	27	30.3	8	1000	28	2100
73781	VDN.300 FP+I	301	87	36	58	58	94	148	82	56	18	90	M10	132	42	38	41.3	10	1100	35	3138
73791	VDN.350 FP+I	350	92	38	58	58	94	148	90	56	18	102	M10	157	42	38	41.3	10	1200	36	4243

VDN.FP+I-SST **STAINLESS STEEL**

Code	Description	D	L	B	d1	d2	d3	d4	d5	l	l2	H	m	R	d'	d''	t	b	C# [Nm]	L# [J]	⚖
73715	VDN.100 FP+I-SST	100	46	21	24	20	35	54	39	33.5	12	50	M6	39	16	13	15.3	5	150	6	361
73725	VDN.125 FP+I-SST	125	57	28	32	26.5	44	70	46	38	15	65	M8	50	20	16	18.3	5	300	8	568
73735	VDN.150 FP+I-SST	150	61	30	32	26.5	50	80	48	38	15	65	M8	62	20	16	18.3	5	400	14	737
73755	VDN.200 FP+I-SST	200	68	32	40	33	55	90	60	43	15	90	M10	82	26	22	24.8	6	600	18	1314
73775	VDN.250 FP+I-SST	249	76	36	49	40	66	110	70	44.5	15	90	M10	106	35	27	30.3	8	1000	28	2100
73786	VDN.300 FP+I-SST	301	87	36	58	58	94	148	82	56	18	90	M10	132	42	38	41.3	10	1100	35	3138

VDN.FP+IR

Code	Description	D	L	B	d1	d2	d3	d4	d5	l	l2	H	R	d'	d''	t	b	C# [Nm]	L# [J]	⚖
73711	VDN.100 FP+IR	100	51	26	24	20	35	54	39	33.5	12	56	37	16	13	15.3	5	150	6	427
73721	VDN.125 FP+IR	125	57	28	32	26.5	44	70	46	38	15	56	48	20	16	18.3	5	300	8	596
73731	VDN.150 FP+IR	150	61	30	32	26.5	50	80	48	38	15	65	57	20	16	18.3	5	400	14	803
73741	VDN.175 FP+IR	175	66	32	40	33	55	90	56	43	15	80	68	26	22	24.8	6	500	16	1147
73751	VDN.200 FP+IR	200	68	32	40	33	55	90	60	43	15	90	76.5	26	22	24.8	6	600	18	1462
73761	VDN.225 FP+IR	225	71	33	49	40	66	110	66	44.5	15	90	88	34	27	30.3	8	900	25	1856
73771	VDN.250 FP+IR	249	76	36	49	40	66	110	70	44.5	15	90	100	35	27	30.3	8	1000	28	2248
73782	VDN.300 FP+IR	301	87	36	58	58	94	148	82	56	18	90	124	42	38	41.3	10	1100	35	3212

For maximum torque (C) and impact strength (L) see Technical Data on page A3.

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Safety solid handwheels

Duroplast

MATERIAL
High-strength, reinforced phenolic based (PF) Duroplast, black colour, glossy finish.

RING
Matte anodised aluminium.
(ELESA Original design - Reg. U.S. Pat. & TM Off.)

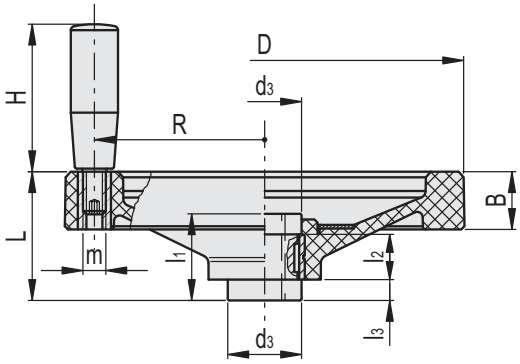
STANDARD EXECUTION
Safety coupling bushing with "Pull-coupling" assembly GN 000.5 (see page 185) hardened steel with ground sliding surfaces, reamed assembly hole and keyway in compliance with DIN 6885/2 tolerance P9 (see page A16).
Revolving handle I.301+x (see page 574) in Duroplast.

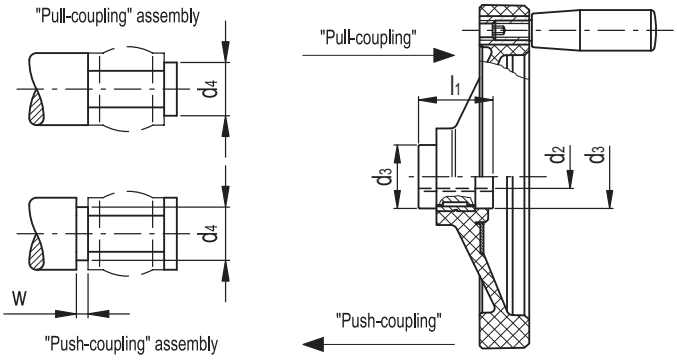
SPECIAL EXECUTIONS ON REQUEST
These handwheels can be supplied with "Push-coupling". By inserting the bushing the other way round, the handwheel operates opposite to the standard way.

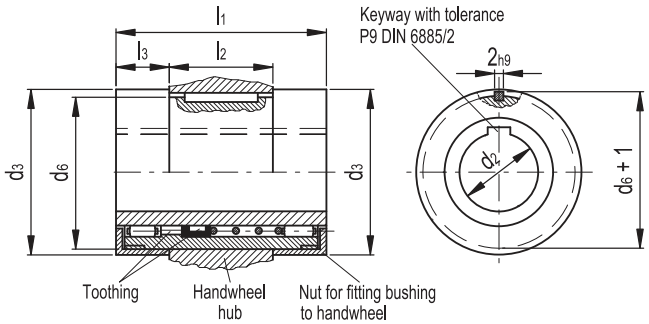
INSTRUCTIONS OF USE
Safety handwheels are designed in accordance with accident prevention rules: in case of push or accidental pressure when the machine is operating, the handwheel is disengaged and is in the rest position. Only by "Pulling" the handwheel parallel to the axis can the shaft operate: the two toothed elements inside the bushing fit into each other in order to couple the handwheel to the shaft. The handwheel returns automatically to its rest position when it is released after the operation.

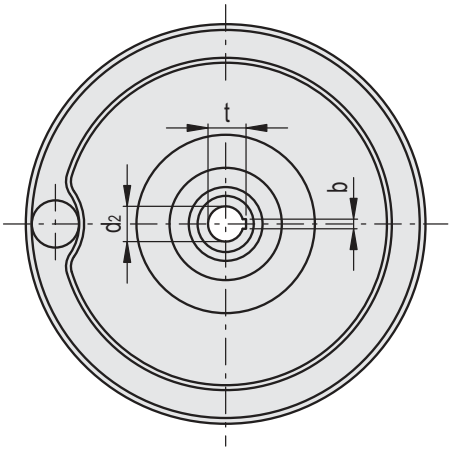
ERGONOMY
The rim with internal rear scallops makes the grip and the manoeuvre of the handwheel easier.

ELESA Original design









Code	Description	D	d2 H7	L	B	d3	d4 max	d6	l1	l2 ±0.2	l3	H	m	R	wmin	t	b	⚖
73728	VDN.125 FP+I+ST12	125	12	58	28	29	17	25 -0.05	42	18	12	65	M8	50	4	13.1	4	465
73738	VDN.150 FP+I+ST14	150	14	67	30	33	21	29 -0.05	48	20	14	65	M8	62	4	15.3	5	650
73748	VDN.175 FP+I+ST14	175	14	69	32	33	21	29 -0.05	48	20	14	80	M10	72.5	4	15.3	5	810
73758	VDN.200 FP+I+ST18	200	18	72	32	39	26	35 -0.05	50	24	13	90	M10	82	4	19.7	6	1220
73778	VDN.250 FP+I+ST22	249	22	82	36	46	30	41 -0.05	54	28	13	90	M10	106	4	23.7	6	1670

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Disc handwheels

Aluminium, plastic coated

reddot design award

SPECIFICATION

Types

- Type **A**: without handle
- Type **R**: with revolving handle

Bore codes

- Version **B**: without keyway
- Version **K**: with keyway

Aluminium pressure die casting

- Hub machined
- Rim turned
- plastic coated

black, RAL 9005, textured finish **SW**
silver, RAL 9006, textured finish **SR**

Rim concentric and square to bore < 0.4

Cylindrical Revolving handles GN 798.2 (see page 578)
Plastic, Technopolymer
black, matt

INFORMATION

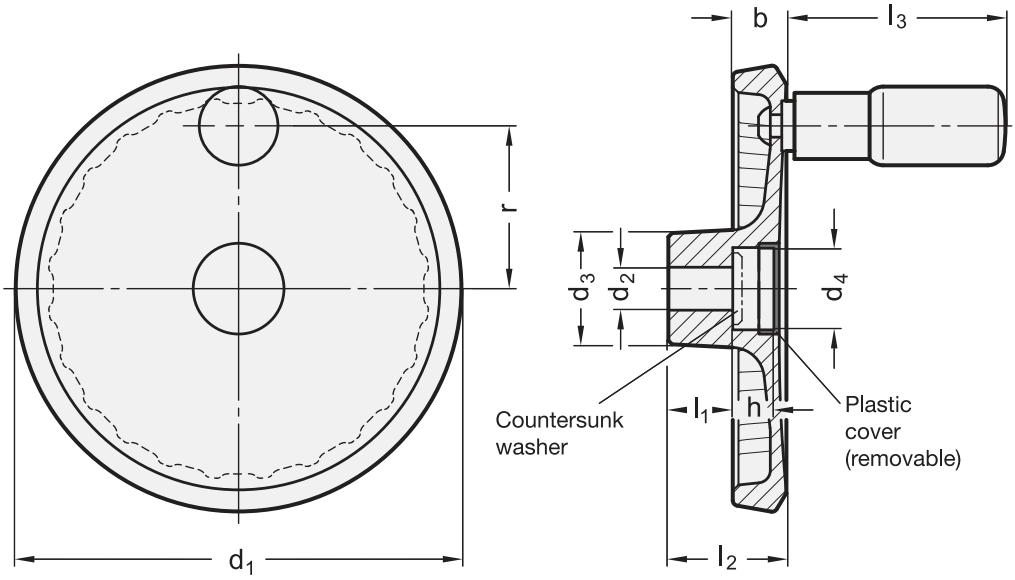
Disc handwheels GN 923 are distinguished by modern design.
The removable plastic cover shrouds the fixing components such as screws, countersunk washers as well as the shaft end.

ACCESSORY

- Countersunk washers GN 184 (see page 971) are to be ordered separately
  screws, countersunk washers as well as the shaft end.

TECHNICAL INFORMATION

- Keyway P9 DIN 6885 (see page A16)
- Cross holes GN 110 (see page A17)
- ISO-Fundamental Tolerances (see page A21)



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GN 923 | Disc handwheels

*Complete with colour index of the Handwheels (SW or SR)

SW RAL9005 SR RAL9006

GN 923-A

Description	d1	d2 H7	d3	d4	b	h	l1	l2 ≈	Recommended countersunk washer	⚖
GN 923-80-B10-A-*	80	10	26	17	13	7	16	26	GN 184-16	101
GN 923-80-K10-A-*	80	10	26	17	13	7	16	26	GN 184-16	101
GN 923-80-B12-A-*	80	12	26	17	13	7	16	26	GN 184-16	100
GN 923-80-K12-A-*	80	12	26	17	13	7	16	26	GN 184-16	100
GN 923-100-B10-A-*	100	10	28	22	14	9.5	17	30	GN 184-20	153
GN 923-100-K10-A-*	100	10	28	22	14	9.5	17	30	GN 184-20	153
GN 923-100-B12-A-*	100	12	28	22	14	9.5	17	30	GN 184-20	150
GN 923-100-K12-A-*	100	12	28	22	14	9.5	17	30	GN 184-20	150
GN 923-125-B12-A-*	125	12	31	22	15	11	18	33	GN 184-20	260
GN 923-125-K12-A-*	125	12	31	22	15	11	18	33	GN 184-20	260
GN 923-125-B14-A-*	125	14	31	22	15	11	18	33	GN 184-20	261
GN 923-125-K14-A-*	125	14	31	22	15	11	18	33	GN 184-20	261
GN 923-140-B14-A-*	140	14	36	28.5	16.5	13	19	36	GN 184-25	338
GN 923-140-K14-A-*	140	14	36	28.5	16.5	13	19	36	GN 184-25	338
GN 923-140-B16-A-*	140	16	36	28.5	16.5	13	19	36	GN 184-25	337
GN 923-140-K16-A-*	140	16	36	28.5	16.5	13	19	36	GN 184-25	330
GN 923-160-B14-A-*	160	14	36	28.5	18	14.5	20	39	GN 184-25	460
GN 923-160-K14-A-*	160	14	36	28.5	18	14.5	20	39	GN 184-25	460
GN 923-160-B16-A-*	160	16	36	28.5	18	14.5	20	39	GN 184-25	449
GN 923-160-K16-A-*	160	16	36	28.5	18	14.5	20	39	GN 184-25	445
GN 923-200-B18-A-*	200	18	42	36	20.5	16	24	45	GN 184-32	780
GN 923-200-K18-A-*	200	18	42	36	20.5	16	24	45	GN 184-32	780
GN 923-200-B20-A-*	200	20	42	36	20.5	16	24	45	GN 184-32	765
GN 923-200-K20-A-*	200	20	42	36	20.5	16	24	45	GN 184-32	765

GN 923-R

Description	d1	d2 H7	d3	d4	b	h	l1	l2 ≈	l3 ≈	r	Ø Handle	Recommended countersunk washer	⚖
GN 923-80-B10-R-*	80	10	26	17	13	7	16	26	43.5	27.5	16	GN 184-16	120
GN 923-80-K10-R-*	80	10	26	17	13	7	16	26	43.5	27.5	16	GN 184-16	120
GN 923-80-B12-R-*	80	12	26	17	13	7	16	26	43.5	27.5	16	GN 184-16	100
GN 923-80-K12-R-*	80	12	26	17	13	7	16	26	43.5	27.5	16	GN 184-16	100
GN 923-100-B10-R-*	100	10	28	22	14	9.5	17	30	58	36	18	GN 184-20	186
GN 923-100-K10-R-*	100	10	28	22	14	9.5	17	30	58	36	18	GN 184-20	186
GN 923-100-B12-R-*	100	12	28	22	14	9.5	17	30	58	36	18	GN 184-20	182
GN 923-100-K12-R-*	100	12	28	22	14	9.5	17	30	58	36	18	GN 184-20	182
GN 923-125-B12-R-*	125	12	31	22	15	11	18	33	61	45.5	22	GN 184-20	340
GN 923-125-K12-R-*	125	12	31	22	15	11	18	33	61	45.5	22	GN 184-20	340
GN 923-125-B14-R-*	125	14	31	22	15	11	18	33	61	45.5	22	GN 184-20	340
GN 923-125-K14-R-*	125	14	31	22	15	11	18	33	61	45.5	22	GN 184-20	339
GN 923-140-B14-R-*	140	14	36	28.5	16.5	13	19	36	76	52	24	GN 184-25	420
GN 923-140-K14-R-*	140	14	36	28.5	16.5	13	19	36	76	52	24	GN 184-25	418
GN 923-140-B16-R-*	140	16	36	28.5	16.5	13	19	36	76	52	24	GN 184-25	420
GN 923-140-K16-R-*	140	16	36	28.5	16.5	13	19	36	76	52	24	GN 184-25	400
GN 923-160-B14-R-*	160	14	36	28.5	18	14.5	20	39	76	61	24	GN 184-25	540
GN 923-160-K14-R-*	160	14	36	28.5	18	14.5	20	39	76	61	24	GN 184-25	535
GN 923-160-B16-R-*	160	16	36	28.5	18	14.5	20	39	76	61	24	GN 184-25	540
GN 923-160-K16-R-*	160	16	36	28.5	18	14.5	20	39	76	61	24	GN 184-25	540
GN 923-200-B18-R-*	200	18	42	36	20.5	16	24	45	85	77.5	25	GN 184-32	880
GN 923-200-K18-R-*	200	18	42	36	20.5	16	24	45	85	77.5	25	GN 184-32	860
GN 923-200-B20-R-*	200	20	42	36	20.5	16	24	45	85	77.5	25	GN 184-32	889
GN 923-200-K20-R-*	200	20	42	36	20.5	16	24	45	85	77.5	25	GN 184-32	885

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GN 923.3

Handwheels with retractable handle

Aluminium, Handle locked

SPECIFICATION

Type
- Type **R**: with retractable handle

Bore codes
- Version **B**: without keyway
- Version **K**: with keyway

Aluminium pressure die casting
- Hub machined
- Rim turned
- plastic coated

black, RAL 9005, textured finish **SW**
silver, RAL 9006, textured finish **SR**

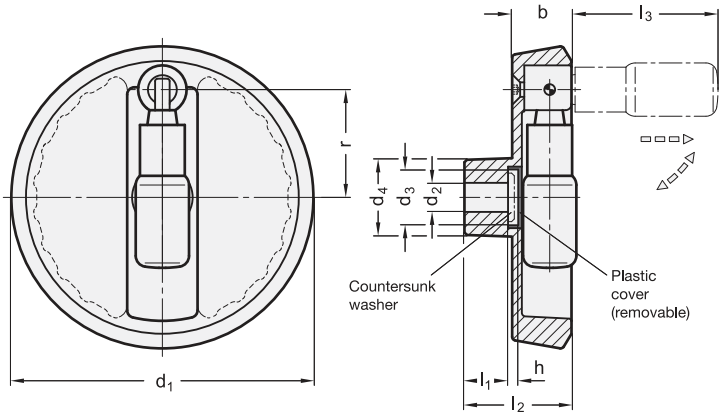
Rim concentric and square to bore < 0.4

Retractable handles GN 798.3 (see page 586)
Plastic, Technopolymer
black, matt

Retracting mechanism
Steel, blackened

INFORMATION

The handle in these disc handwheels is locked in a conical bore in the operating position.
For reversal, it must first be pulled from the cone in axial direction.
A pressure spring holds the handle in both positions. When swung out, it automatically engages again.



*Complete with colour index of the Handwheels (SW or SR)

SW RAL9005 SR RAL9006

GN 923.3

Description	d1	d2 H7	d3	d4	b	h	l1	l2 ≈	l3 ≈	r	Ø Handle	Recommended countersunk washer	⚖
GN 923.3-100-B10-R-*	100	10	18	28	20	4	17	39	56.5	35	18	GN 184-16	252
GN 923.3-100-K10-R-*	100	10	18	28	20	4	17	39	56.5	35	18	GN 184-16	240
GN 923.3-100-B12-R-*	100	12	18	28	20	4	17	39	56.5	35	18	GN 184-16	260
GN 923.3-100-K12-R-*	100	12	18	28	20	4	17	39	56.5	35	18	GN 184-16	260
GN 923.3-125-B12-R-*	125	12	23	31	24.5	4	18	45	60.5	44.5	22	GN 184-22	460
GN 923.3-125-K12-R-*	125	12	23	31	24.5	4	18	45	60.5	44.5	22	GN 184-22	460
GN 923.3-125-B14-R-*	125	14	23	31	24.5	4	18	45	60.5	44.5	22	GN 184-22	440
GN 923.3-125-K14-R-*	125	14	23	31	24.5	4	18	45	60.5	44.5	22	GN 184-22	440
GN 923.3-140-B14-R-*	140	14	23	36	26	4	19	47	75.5	52	24	GN 184-22	590
GN 923.3-140-K14-R-*	140	14	23	36	26	4	19	47	75.5	52	24	GN 184-22	590
GN 923.3-140-B16-R-*	140	16	23	36	26	4	19	47	75.5	52	24	GN 184-22	550
GN 923.3-140-K16-R-*	140	16	23	36	26	4	19	47	75.5	52	24	GN 184-22	540
GN 923.3-160-B14-R-*	160	14	23	36	26	4	20	48	75.5	61	24	GN 184-22	740
GN 923.3-160-K14-R-*	160	14	23	36	26	4	20	48	75.5	61	24	GN 184-22	740
GN 923.3-160-B16-R-*	160	16	23	36	26	4	20	48	75.5	61	24	GN 184-22	730
GN 923.3-160-K16-R-*	160	16	23	36	26	4	20	48	75.5	61	24	GN 184-22	730
GN 923.3-200-B18-R-*	200	18	23	42	27	4	24	53	85.5	80.5	25	GN 184-22	1100
GN 923.3-200-K18-R-*	200	18	23	42	27	4	24	53	85.5	80.5	25	GN 184-22	1100
GN 923.3-200-B20-R-*	200	20	23	42	27	4	24	53	85.5	80.5	25	GN 184-22	921
GN 923.3-200-K20-R-*	200	20	23	42	27	4	24	53	85.5	80.5	25	GN 184-22	915

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GN 923.7

Handwheels with retractable handle

Aluminium, Handle swivelling

SPECIFICATION

Type

- Type **R**: with retractable handle

Bore codes

- Version **B**: without keyway
- Version **K**: with keyway

Aluminium pressure die casting

- Hub machined
- Rim turned
- plastic coated

black, RAL 9005, textured finish **SW**
silver, RAL 9006, textured finish **SR**

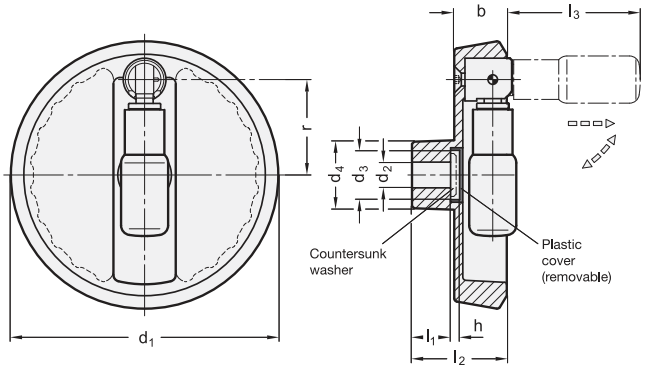
Rim concentric and square to bore < 0.4

Safety retractable handles GN 798.7 (see page 587)
Plastic, Technopolymer
black, matt

Retracting mechanism
Steel, blackened

INFORMATION

Disc handwheels GN 923.7 are distinguished by modern design.
These handwheels are suitable for applications where the handle must not remain in the operating position.
In order to bring the handle into this position it has to be turned first through 90° to a stop against a torsion spring and then it is pushed against spring pressure into its hold position. By maintaining the forward thrust on the handle the handwheel can easily be rotated.
When releasing the handle the springs returns it back to the retracted position.



*Complete with colour index of the Handwheels (SW or SR)

SW RAL9005 SR RAL9006

GN 923.7

Description	d1	d2 H7	d3	d4	b	h	l1	l2 ≈	l3 ≈	r	Ø Handle	Recommended countersunk washer	⚖
GN 923.7-125-B12-R-*	125	12	23	31	24.5	4	18	45	62.5	44.5	22	GN 184-22	460
GN 923.7-125-K12-R-*	125	12	23	31	24.5	4	18	45	62.5	44.5	22	GN 184-22	440
GN 923.7-125-B14-R-*	125	14	23	31	24.5	4	18	45	62.5	44.5	22	GN 184-22	420
GN 923.7-125-K14-R-*	125	14	23	31	24.5	4	18	45	62.5	44.5	22	GN 184-22	420
GN 923.7-140-B14-R-*	140	14	23	36	26	4	19	47	77.5	52	24	GN 184-22	589
GN 923.7-140-K14-R-*	140	14	23	36	26	4	19	47	77.5	52	24	GN 184-22	589
GN 923.7-140-B16-R-*	140	16	23	36	26	4	19	47	77.5	52	24	GN 184-22	580
GN 923.7-140-K16-R-*	140	16	23	36	26	4	19	47	77.5	52	24	GN 184-22	580
GN 923.7-160-B14-R-*	160	14	23	36	26	4	20	48	77.5	61	24	GN 184-22	750
GN 923.7-160-K14-R-*	160	14	23	36	26	4	20	48	77.5	61	24	GN 184-22	730
GN 923.7-160-B16-R-*	160	16	23	36	26	4	20	48	77.5	61	24	GN 184-22	700
GN 923.7-160-K16-R-*	160	16	23	36	26	4	20	48	77.5	61	24	GN 184-22	580
GN 923.7-200-B18-R-*	200	18	23	42	27	4	24	53	87.5	80.5	25	GN 184-22	1070
GN 923.7-200-K18-R-*	200	18	23	42	27	4	24	53	87.5	80.5	25	GN 184-22	1050
GN 923.7-200-B20-R-*	200	20	23	42	27	4	24	53	87.5	80.5	25	GN 184-22	1140
GN 923.7-200-K20-R-*	200	20	23	42	27	4	24	53	87.5	80.5	25	GN 184-22	1080

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Disc handwheels

Aluminium, blank, rim polished

SPECIFICATION

Types

- Type **A**: without handle
- Type **R**: with revolving handle

Bore codes

- Version **B**: without keyway
- Version **K**: with keyway

Aluminium

- Hub machined
- Rim turned

Rim concentric and square to bore < 0.4

Wheel body

- Rim high-polished
- unmachined body matt shot-blasted

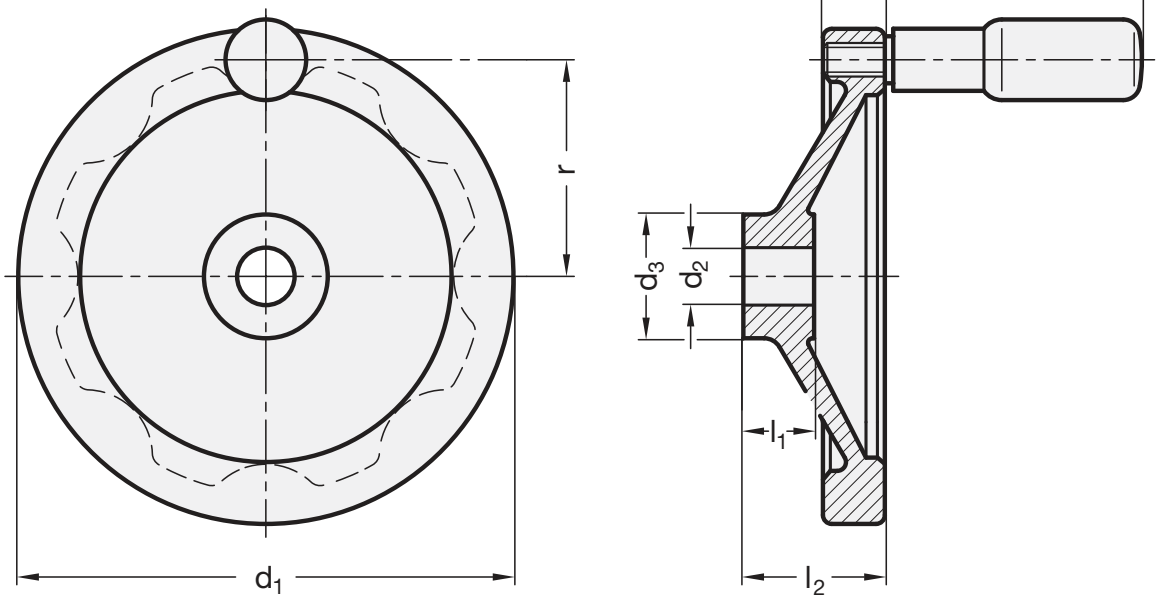
Cylindrical Revolving handles GN 798 (see page 577)
Plastic, Technopolymer
black, matt

INFORMATION

Disc handwheels GN 321 have recessed grips at their back.
- Countersunk washers GN 184 (for axial fixing) (see page 971)

TECHNICAL INFORMATION

- Keyway P9 DIN 6885 (see page A16)
- Cross holes GN 110 (see page A17)
- ISO-Fundamental Tolerances (see page A21)



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GN 321 | Disc handwheels

*Complete with Bore codes of the Handwheel (B or K)

B without keyway **K** with keyway

GN 321-A

Description	d1	d2 H7	d3	b	l1	l2 ≈	⚖
GN 321-80-*10-A	80	10	28	13	16	26	134
GN 321-80-*12-A	80	12	28	13	16	26	127
GN 321-100-*10-A	100	10	28	14	17	30	200
GN 321-100-*12-A	100	12	28	14	17	30	190
GN 321-125-*12-A	125	12	31	15	18	33	318
GN 321-125-*14-A	125	14	31	15	18	33	290
GN 321-140-*14-A	140	14	36	16.5	19	36	431
GN 321-140-*16-A	140	16	36	16.5	19	36	427
GN 321-160-*14-A	160	14	36	18	20	39	460
GN 321-160-*16-A	160	16	36	18	20	39	450
GN 321-200-*18-A	200	18	45	20.5	24	45	885
GN 321-200-*20-A	200	20	45	20.5	24	45	875
GN 321-250-*22-A	250	22	48	23	28	51	1522
GN 321-250-*26-A	250	26	48	23	28	51	1479

GN 321-R

Description	d1	d2 H7	d3	b	l1	l2 ≈	l3 ≈	r	Ø Handle	⚖
GN 321-80-*10-R	80	10	28	13	16	26	44	33.5	16	153
GN 321-80-*12-R	80	12	28	13	16	26	44	33.5	16	149
GN 321-100-*10-R	100	10	28	14	17	30	58.5	42.5	18	215
GN 321-100-*12-R	100	12	28	14	17	30	58.5	42.5	18	213
GN 321-125-*12-R	125	12	31	15	18	33	61.5	54	22	403
GN 321-125-*14-R	125	14	31	15	18	33	61.5	54	22	383
GN 321-140-*14-R	140	14	36	16.5	19	36	76.5	61	24	431
GN 321-140-*16-R	140	16	36	16.5	19	36	76.5	61	24	427
GN 321-160-*14-R	160	14	36	18	20	39	76.5	71	24	665
GN 321-160-*16-R	160	16	36	18	20	39	76.5	71	24	655
GN 321-200-*18-R	200	18	45	20.5	24	45	86.5	89	25	940
GN 321-200-*20-R	200	20	45	20.5	24	45	86.5	89	25	930
GN 321-250-*22-R	250	22	48	23	28	51	86.5	113	25	1520
GN 321-250-*26-R	250	26	48	23	28	51	86.5	113	25	1480

Weight bore code B

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Disc handwheels

Aluminium, black, plastic coated

SPECIFICATION

Types

- Type **A**: without handle
- Type **R**: with revolving handle

Bore codes

- Version **B**: without keyway
- Version **K**: with keyway

Aluminium

- Hub machined
- Rim turned

Rim concentric and square to bore < 0.4

Wheel body
plastic coated
black, textured finish

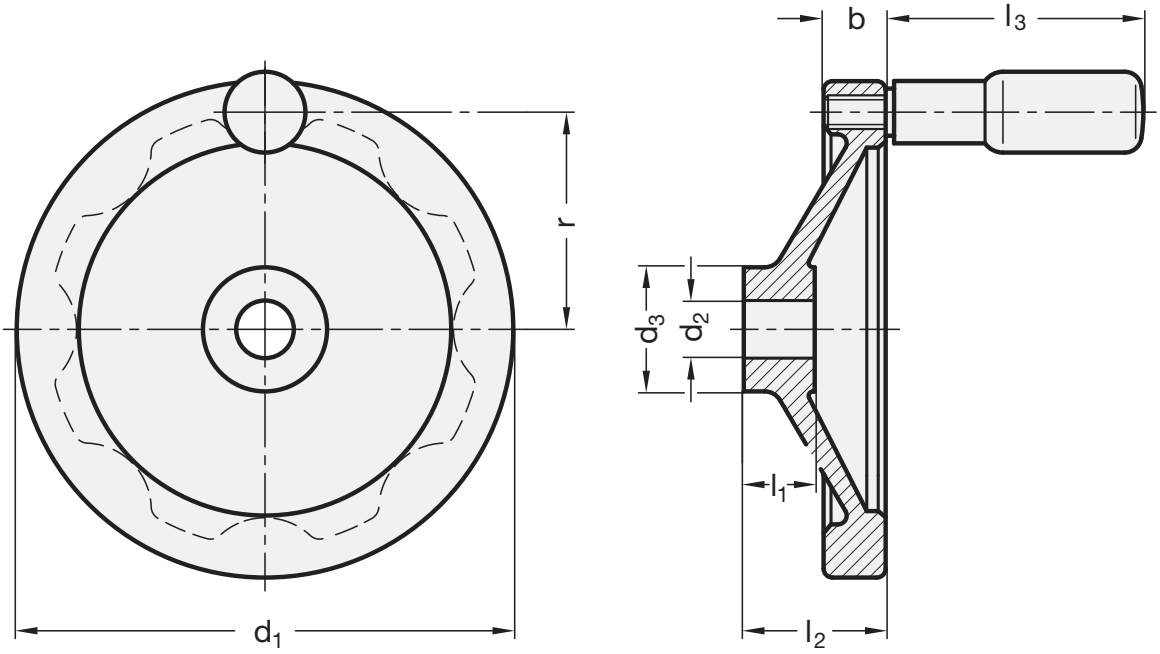
Cylindrical Revolving handles GN 798 (see page 577)
Plastic, Technopolymer
black, matt

INFORMATION

Disc handwheels GN 323 have recessed grips at their back.
- Countersunk washers GN 184 (for axial fixing) (see page 971)

TECHNICAL INFORMATION

- Keyway P9 DIN 6885 (see page A16)
- Cross holes GN 110 (for axial fixing) (see page A17)
- ISO-Fundamental tolerances (see page A21)



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GN 323 | Disc handwheels

GN 323-A

Description	d1	d2 H7	d3	b	l1	l2 ≈	⚖
GN 323-80-B10-A	80	10	26	13	16	26	136
GN 323-80-K10-A	80	10	26	13	16	26	134
GN 323-80-B12-A	80	12	26	13	16	26	130
GN 323-80-K12-A	80	12	26	13	16	26	128
GN 323-100-B10-A	100	10	28	14	17	30	211
GN 323-100-K10-A	100	10	28	14	17	30	200
GN 323-100-B12-A	100	12	28	14	17	30	216
GN 323-100-K12-A	100	12	28	14	17	30	214
GN 323-125-B12-A	125	12	31	15	18	33	321
GN 323-125-K12-A	125	12	31	15	18	33	300
GN 323-125-B14-A	125	14	31	15	18	33	316
GN 323-125-K14-A	125	14	31	15	18	33	313
GN 323-140-B14-A	140	14	36	16.5	19	36	380
GN 323-140-K14-A	140	14	36	16.5	19	36	377
GN 323-140-B16-A	140	16	36	16.5	19	36	431
GN 323-140-K16-A	140	16	36	16.5	19	36	400
GN 323-160-B14-A	160	14	36	18	20	39	535
GN 323-160-K14-A	160	14	36	18	20	39	520
GN 323-160-B16-A	160	16	36	18	20	39	568
GN 323-160-K16-A	160	16	36	18	20	39	560
GN 323-200-B18-A	200	18	45	20.5	24	45	926
GN 323-200-K18-A	200	18	45	20.5	24	45	920
GN 323-200-B20-A	200	20	45	20.5	24	45	896
GN 323-200-K20-A	200	20	45	20.5	24	45	891
GN 323-250-B22-A	250	22	48	23	28	51	1546
GN 323-250-K22-A	250	22	48	23	28	51	1541
GN 323-250-B26-A	250	26	48	23	28	51	1416
GN 323-250-K26-A	250	26	48	23	28	51	1400

GN 323-R

Description	d1	d2 H7	d3	b	l1	l2 ≈	l3 ≈	r	Ø Handle	⚖
GN 323-80-B10-R	80	10	26	13	16	26	44	33.5	16	155
GN 323-80-K10-R	80	10	26	13	16	26	44	33.5	16	150
GN 323-80-B12-R	80	12	26	13	16	26	44	33.5	16	160
GN 323-80-K12-R	80	12	26	13	16	26	44	33.5	16	155
GN 323-100-B10-R	100	10	28	14	17	30	58.5	42.5	18	220
GN 323-100-K10-R	100	10	28	14	17	30	58.5	42.5	18	210
GN 323-100-B12-R	100	12	28	14	17	30	58.5	42.5	18	200
GN 323-100-K12-R	100	12	28	14	17	30	58.5	42.5	18	190
GN 323-125-B12-R	125	12	31	15	18	33	61.5	54	22	390
GN 323-125-K12-R	125	12	31	15	18	33	61.5	54	22	385
GN 323-125-B14-R	125	14	31	15	18	33	61.5	54	22	380
GN 323-125-K14-R	125	14	31	15	18	33	61.5	54	22	375
GN 323-140-B14-R	140	14	36	16.5	19	36	76.5	61	24	440
GN 323-140-K14-R	140	14	36	16.5	19	36	76.5	61	24	438
GN 323-140-B16-R	140	16	36	16.5	19	36	76.5	61	24	430
GN 323-140-K16-R	140	16	36	16.5	19	36	76.5	61	24	420
GN 323-160-B14-R	160	14	36	18	20	39	76.5	71	24	660
GN 323-160-K14-R	160	14	36	18	20	39	76.5	71	24	650
GN 323-160-B16-R	160	16	36	18	20	39	76.5	71	24	643
GN 323-160-K16-R	160	16	36	18	20	39	76.5	71	24	640
GN 323-200-B18-R	200	18	45	20.5	24	45	86.5	89	25	1051
GN 323-200-K18-R	200	18	45	20.5	24	45	86.5	89	25	1040
GN 323-200-B20-R	200	20	45	20.5	24	45	86.5	89	25	1021
GN 323-200-K20-R	200	20	45	20.5	24	45	86.5	89	25	1010
GN 323-250-B22-R	250	22	48	23	28	51	86.5	113	25	1671
GN 323-250-K22-R	250	22	48	23	28	51	86.5	113	25	1660
GN 323-250-B26-R	250	26	48	23	28	51	86.5	113	25	1536
GN 323-250-K26-R	250	26	48	23	28	51	86.5	113	25	1520

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GN 323.4

Safety handwheels

friction bearing

SPECIFICATION

Types

- Type **A**: without handle
- Type **D**: with revolving steel handle

Coding

- Version **ZI**: engage by pulling
- Version **DR**: engage by pushing

Aluminium

- Hub machined
- Rim turned

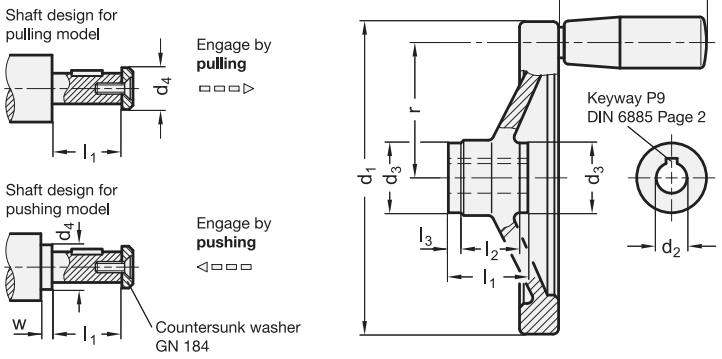
Rim concentric and square to bore < 0.4

Wheel body
plastic coated
black, textured finish

Cylindrical Revolving handles GN 598 (see page 573)
Steel, plastic coated
black, matt

INFORMATION

The use of coupling attachments in handwheels other than specified is also possible.
- Instructions for safety handwheels (see page 133)



*Complete with Coding of the Handwheels (ZI or DR)

ZI	DR
Engage by pulling	Engage by pushing

GN 323.4-A

Description	d1	d2 H7	d3	d4 max.	l1 max.	l2	l3	w min.	Coupling	⚖
GN 323.4-125-K12-A-*	125	K 12	28	17	28.5	18	5	4	GN 000.4-1	405
GN 323.4-140-K12-A-*	140	K 12	28	17	28.5	19	5	4	GN 000.4-1	493
GN 323.4-140-K14-A-*	140	K 14	32	21	32.5	19	6	4	GN 000.4-2	450
GN 323.4-140-K16-A-*	140	K 16	32	21	32.5	19	6	4	GN 000.4-2	440
GN 323.4-160-K14-A-*	160	K 14	32	21	32.5	20	6	4	GN 000.4-2	632
GN 323.4-160-K16-A-*	160	K 16	32	21	32.5	20	6	4	GN 000.4-2	619
GN 323.4-200-K18-A-*	200	K 18	38	26	36.5	24	6	4	GN 000.4-3	1035
GN 323.4-200-K20-A-*	200	K 20	38	26	36.5	24	6	4	GN 000.4-3	1018
GN 323.4-250-K22-A-*	250	K 22	45	30	47.5	28	12	4	GN 000.4-4	1796

GN 323.4-D

Description	d1	d2 H7	d3	d4 max.	l1 max.	l2	l3	l4	r	w min.	Ø Handle	Coupling	⚖
GN 323.4-125-K12-D-*	125	K 12	28	17	28.5	18	5	67.5	54	4	23	GN 000.4-1	620
GN 323.4-140-K12-D-*	140	K 12	28	17	28.5	19	5	67.5	61	4	23	GN 000.4-1	678
GN 323.4-140-K14-D-*	140	K 14	32	21	32.5	19	6	67.5	61	4	23	GN 000.4-2	660
GN 323.4-140-K16-D-*	140	K 16	32	21	32.5	19	6	67.5	61	4	23	GN 000.4-2	650
GN 323.4-160-K14-D-*	160	K 14	32	21	32.5	20	6	82.5	71	4	26	GN 000.4-2	905
GN 323.4-160-K16-D-*	160	K 16	32	21	32.5	20	6	82.5	71	4	26	GN 000.4-2	900
GN 323.4-200-K18-D-*	200	K 18	38	26	36.5	24	6	82.5	89	4	26	GN 000.4-3	1328
GN 323.4-200-K20-D-*	200	K 20	38	26	36.5	24	6	82.5	89	4	26	GN 000.4-3	1311
GN 323.4-250-K22-D-*	250	K 22	45	30	47.5	28	12	92.5	113	4	28	GN 000.4-4	2181

Weight Coding ZI

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GN 323.5

Safety handwheels

needle bearing

SPECIFICATION

Types

- Type **A**: without handle
- Type **D**: with revolving steel handle

Coding

- Version **ZI**: engage by pulling
- Version **DR**: engage by pushing

Aluminium

- Hub machined
- Rim turned

Rim concentric and square to bore < 0.4

Wheel body
plastic coated
black, textured finish

Cylindrical Revolving handles GN 598 (see page 573)
Steel, plastic coated
black, matt

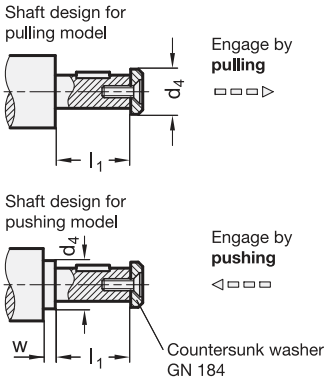
INFORMATION

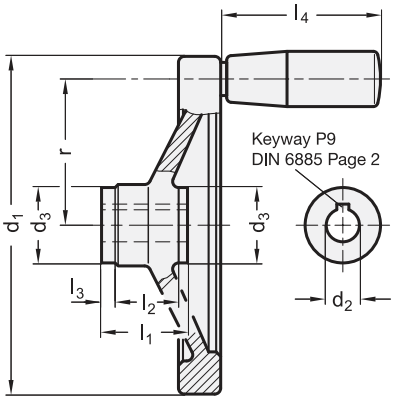
The use of coupling attachments in handwheels other than specified is also possible.

- Instructions for safety handwheels (see page 133)

TECHNICAL INFORMATION

- Keyway DIN 6885 (see page A16)
- ISO-Fundamental tolerances (see page A21)





*Complete with Coding of the Handwheels (ZI or DR)

ZI	DR
Engage by pulling	Engage by pushing

GN 323.5-A

Description	d1	d2 H7	d3	d4 max.	l1 max.	l2	l3	Coupling	⚖
GN 323.5-125-K12-A-*	125	K 12	29	17	42	18	12	GN 000.5-1	423
GN 323.5-140-K12-A-*	140	K 12	29	17	42	19	12	GN 000.5-1	512
GN 323.5-140-K14-A-*	140	K 14	33	21	48	19	14	GN 000.5-2	500
GN 323.5-160-K14-A-*	160	K 14	33	21	48	20	14	GN 000.5-2	715
GN 323.5-200-K18-A-*	200	K 18	39	26	50	24	13	GN 000.5-3	1127
GN 323.5-250-K22-A-*	250	K 22	46	30	54	28	13	GN 000.5-4	1837

GN 323.5-D

Description	d1	d2 H7	d3	d4 max.	l1 max.	l2	l3	l4	r	Ø Handle	Coupling	⚖
GN 323.5-125-K12-D-*	125	K 12	29	17	42	18	12	67.5	54	23	GN 000.5-1	611
GN 323.5-140-K12-D-*	140	K 12	29	17	42	19	12	67.5	61	23	GN 000.5-1	697
GN 323.5-140-K14-D-*	140	K 14	33	21	48	19	14	67.5	61	23	GN 000.5-2	680
GN 323.5-160-K14-D-*	160	K 14	33	21	48	20	14	82.5	71	26	GN 000.5-2	1008
GN 323.5-200-K18-D-*	200	K 18	39	26	50	24	13	82.5	89	26	GN 000.5-3	1425
GN 323.5-250-K22-D-*	250	K 22	46	30	54	28	13	92.5	113	28	GN 000.5-4	2130

Weight Coding ZI

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GN 321.4

Safety handwheels

friction bearing

SPECIFICATION

Types

- Type **A**: without handle
- Type **D**: with revolving steel handle

Coding

- Version **ZI**: engage by pulling
- Version **DR**: engage by pushing

Aluminium

- Hub machined
- Rim turned

Rim concentric and square to bore < 0.4

Wheel body

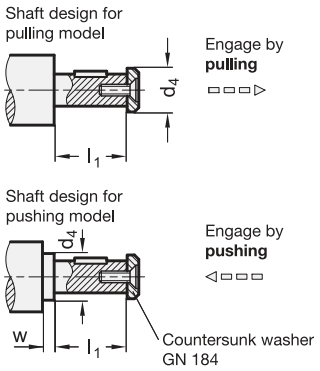
- Rim high-polished
- unmachined body matt shot-blasted

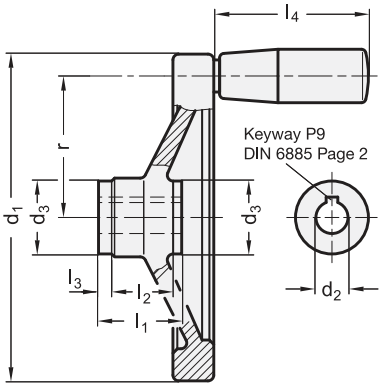
Cylindrical Revolving handles GN 598 (see page 573)
Steel, plastic coated
black, matt

INFORMATION

The use of coupling attachments in handwheels other than specified is also possible.

- Instructions for safety handwheels (see page 133)





*Complete with Coding of the Handwheels (ZI or DR)

ZI	DR
Engage by pulling	Engage by pushing

GN 321.4-A

Description	d1	d2 H7	d3	d4 max.	l1 max.	l2	l3	w min.	Coupling	⚖
GN 321.4-125-K12-A-*	125	K 12	28	17	28.5	18	5	4	GN 000.4-1	377
GN 321.4-140-K12-A-*	140	K 12	28	17	28.5	19	5	4	GN 000.4-1	466
GN 321.4-140-K14-A-*	140	K 14	32	21	32.5	19	6	4	GN 000.4-2	440
GN 321.4-140-K16-A-*	140	K 16	32	21	32.5	19	6	4	GN 000.4-2	420
GN 321.4-160-K14-A-*	160	K 14	32	21	32.5	20	6	4	GN 000.4-2	644
GN 321.4-160-K16-A-*	160	K 16	32	21	32.5	20	6	4	GN 000.4-2	631
GN 321.4-200-K18-A-*	200	K 18	38	26	36.5	24	6	4	GN 000.4-3	1210
GN 321.4-200-K20-A-*	200	K 20	38	26	36.5	24	6	4	GN 000.4-3	1190
GN 321.4-250-K22-A-*	250	K 22	45	30	47.5	28	12	4	GN 000.4-4	1800

GN 321.4-D

Description	d1	d2 H7	d3	d4 max.	l1 max.	l2	l3	l4 ≈	r	w min.	Ø Handle	Coupling	⚖
GN 321.4-125-K12-D-*	125	K 12	28	17	28.5	18	5	67.5	54	4	23	GN 000.4-1	559
GN 321.4-140-K12-D-*	140	K 12	28	17	28.5	19	5	67.5	61	4	23	GN 000.4-1	651
GN 321.4-140-K14-D-*	140	K 14	32	21	32.5	19	6	67.5	61	4	23	GN 000.4-2	630
GN 321.4-140-K16-D-*	140	K 16	32	21	32.5	19	6	67.5	61	4	23	GN 000.4-2	610
GN 321.4-160-K14-D-*	160	K 14	32	21	32.5	20	6	82.5	71	4	26	GN 000.4-2	937
GN 321.4-160-K16-D-*	160	K 16	32	21	32.5	20	6	82.5	71	4	26	GN 000.4-2	924
GN 321.4-200-K18-D-*	200	K 18	38	26	36.5	24	6	82.5	89	4	26	GN 000.4-3	1335
GN 321.4-200-K20-D-*	200	K 20	38	26	36.5	24	6	82.5	89	4	26	GN 000.4-3	1318
GN 321.4-250-K22-D-*	250	K 22	45	30	47.5	28	12	92.5	113	4	28	GN 000.4-4	1916

Weight coding ZI

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GN 321.5

Safety handwheels

needle bearing

SPECIFICATION

Types

- Type **A**: without handle
- Type **D**: with revolving steel handle

Coding

- Version **ZI**: engage by pulling
- Version **DR**: engage by pushing

Aluminium

- Hub machined
- Rim turned

Rim concentric and square to bore < 0.4

Wheel body

- Rim high-polished
- unmachined body matt shot-blasted

Cylindrical Revolving handles GN 598 (see page 573)
Steel, plastic coated
black, matt

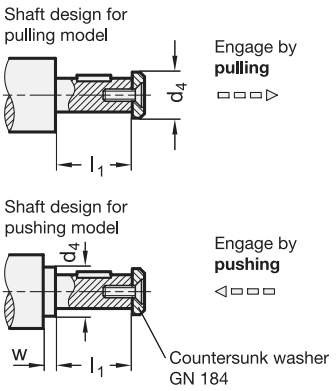
INFORMATION

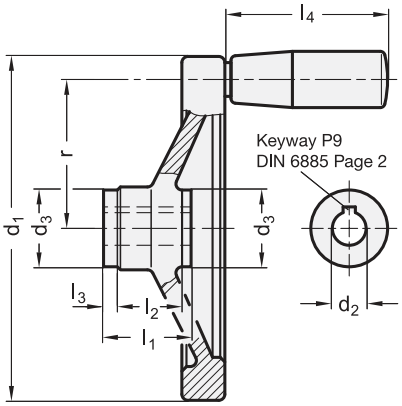
The use of coupling attachments in handwheels other than specified is also possible.

- Instructions for safety handwheels (see page 133)

TECHNICAL INFORMATION

- Keyway DIN 6885 (see page A16)
- ISO-Fundamental tolerances (see page A21)





*Complete with Coding of the Handwheels (ZI or DR)

ZI	DR
Engage by pulling	Engage by pushing

GN 321.5-A

Description	d1	d2 H7	d3	d4 max.	l1 max.	l2	l3	Coupling	⚖
GN 321.5-125-K12-A-*	125	K 12	29	17	42	18	12	GN 000.5-1	423
GN 321.5-140-K12-A-*	140	K 12	29	17	42	19	12	GN 000.5-1	512
GN 321.5-140-K14-A-*	140	K 14	33	21	48	19	14	GN 000.5-2	500
GN 321.5-160-K14-A-*	160	K 14	33	21	48	20	14	GN 000.5-2	600
GN 321.5-200-K18-A-*	200	K 18	39	26	50	24	13	GN 000.5-3	800
GN 321.5-250-K22-A-*	250	K 22	46	30	54	28	13	GN 000.5-4	1900

GN 321.5-D

Description	d1	d2 H7	d3	d4 max.	l1 max.	l2	l3	l4 ≈	r	Ø Handle	Coupling	⚖
GN 321.5-125-K12-D-*	125	K 12	29	17	42	18	12	67.5	54	23	GN 000.5-1	608
GN 321.5-140-K12-D-*	140	K 12	29	17	42	19	12	67.5	61	23	GN 000.5-1	697
GN 321.5-140-K14-D-*	140	K 14	33	21	48	19	14	67.5	61	23	GN 000.5-2	677
GN 321.5-160-K14-D-*	160	K 14	33	21	48	20	14	82.5	71	26	GN 000.5-2	1008
GN 321.5-200-K18-D-*	200	K 18	39	26	50	24	13	82.5	89	26	GN 000.5-3	1420
GN 321.5-250-K22-D-*	250	K 22	46	30	54	28	13	92.5	113	28	GN 000.5-4	2133

Weight Coding ZI

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Safety handwheels

Aluminium, with needle bearings

SPECIFICATION

Types

- Type **A**: without handle
- Type **D**: with revolving handle

Handwheel body

- Aluminium
- Rim turned and polished
- unmachined surfaces plastic coated black, matt

Coupling elements

- Steel, hardened
- Glide surfaces honed

Cover cap
Plastic, light grey

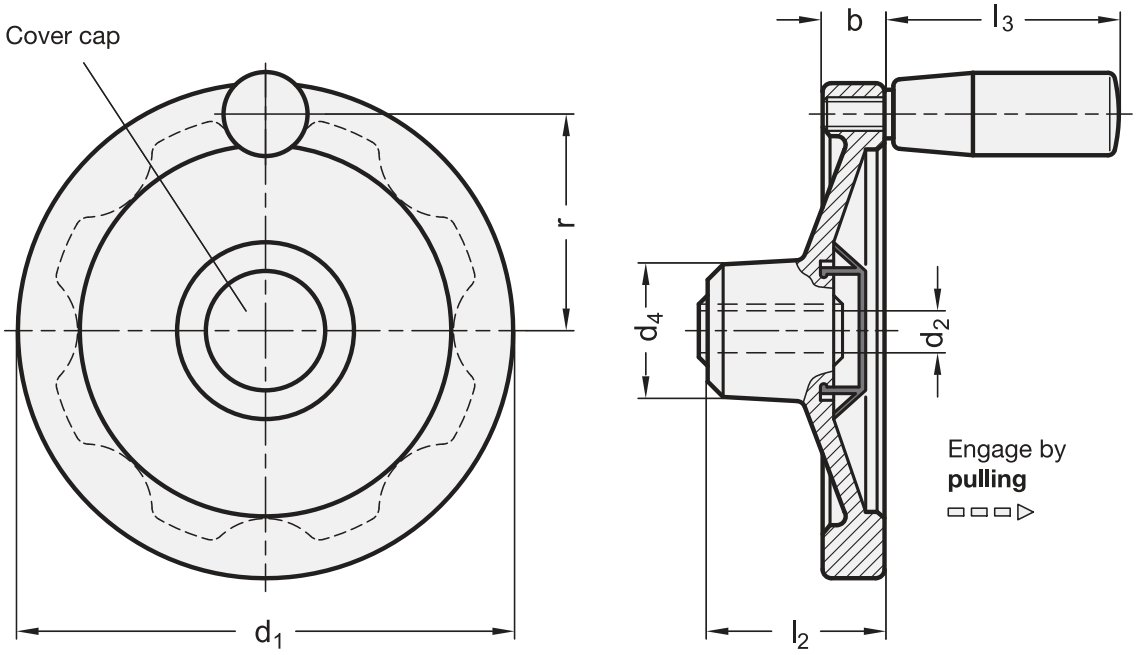
Cylindrical Revolving handles GN 598 (see page 573)
Steel, plastic coated
black, matt

INFORMATION

The hub cap protects the bearing from the ingress of dust and at the same time acts as a shroud for the mounting components.
The wheel hub is fitted with an inside groove to retain the hub cap on its segmented edge.
The hub cap is pushed into position by hand and it can be removed by levering it away at the relieved point with a screw driver.
The needle bearings are greased on assembly which should be ample for permanent lubrication.

TECHNICAL INFORMATION

- Keyway P9 DIN 6885 (see page A16)
- ISO-Fundamental Tolerances (see page A21)



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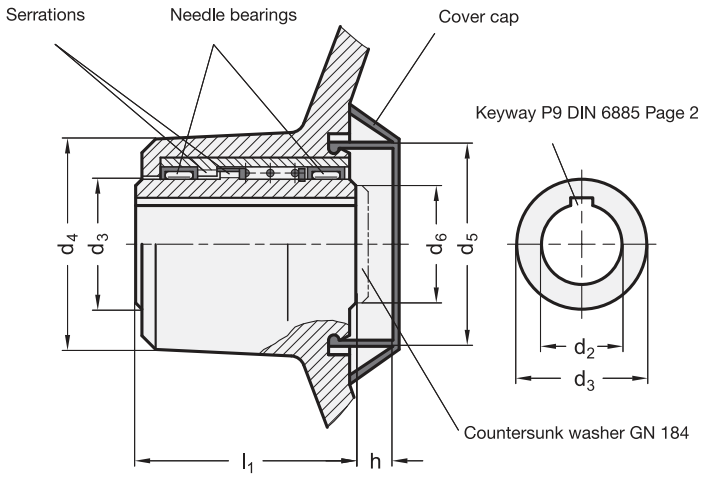

GN 321.6-A

Description	d1	d2 H7	d3	d4	d5	d6 max.	b	h	l1	l2	⚖
GN 321.6-140-K12-A	140	K 12	24	42	40	23	16.5	7	45	58	540
GN 321.6-140-K14-A	140	K 14	24	42	40	23	16.5	7	45	58	520
GN 321.6-140-K16-A	140	K 16	24	42	40	23	16.5	7	45	58	504
GN 321.6-160-K12-A	160	K 12	24	42	40	23	18	7	45	58	659
GN 321.6-160-K14-A	160	K 14	24	42	40	23	18	7	45	58	644
GN 321.6-160-K16-A	160	K 16	24	42	40	23	18	7	45	58	628

GN 321.6-D

Description	d1	d2 H7	d3	d4	d5	d6 max.	b	h	l1	l2	l3	r	Ø Handle	⚖
GN 321.6-140-K12-D	140	K 12	24	42	40	23	16.5	7	45	58	67.5	61	23	720
GN 321.6-140-K14-D	140	K 14	24	42	40	23	16.5	7	45	58	67.5	61	23	705
GN 321.6-140-K16-D	140	K 16	24	42	40	23	16.5	7	45	58	67.5	61	23	690
GN 321.6-160-K12-D	160	K 12	24	42	40	23	18	7	45	58	82.5	71	26	952
GN 321.6-160-K14-D	160	K 14	24	42	40	23	18	7	45	58	82.5	71	26	937
GN 321.6-160-K16-D	160	K 16	24	42	40	23	18	7	45	58	82.5	71	26	920

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Safety handwheels

Aluminium, fixed bearing flange

SPECIFICATION

Types

- Type **A**: without handle
- Type **D**: with revolving handle

Identification no.

- Version **1**: with bearing bush
- Version **2**: with centring ring

Handwheel body
Aluminium
Rim turned and polished

Coupling elements

- Steel, nitrided
- Bearing surface ground and / or PTFE-coated
- Bearing flange blackened

Cylindrical Revolving handles GN 598 (see page 573)
Plastic, Duroplast
black, shiny finish

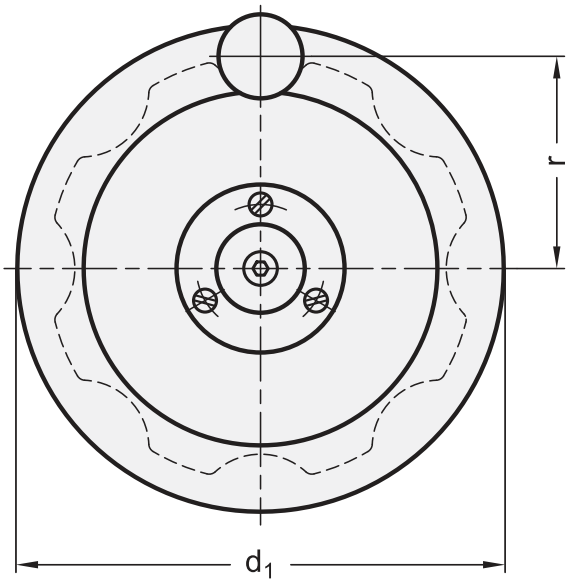
INFORMATION

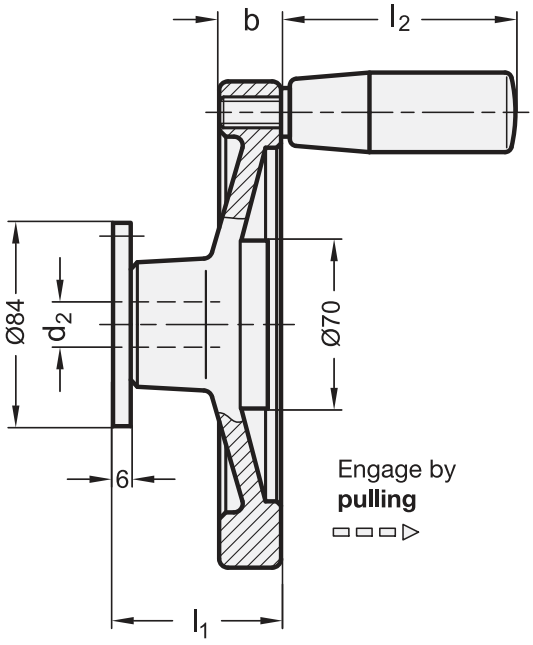
Safety handwheels GN 327 feature the ultimate in health and safety at work standards because the handwheel, if disengaged, is mounted on a fixed component, the bearing flange. The wheel is fully disengaged from the rotating shaft.
The bearing flange can also accept the bearing of the shaft via the bearing bushing (code No. 1). This bearing bushing is a dry bearing (DU bushing). Normally, the shaft has a separate bearing and the bearing bushing serves to center the bearing flange.
Centering can also be effected by a centering ring (code No. 2) if the appropriate bore hole has been made at the machine side. In this case there is no need for the bearing bushes and no bearing friction (heating) will occur.

- Instructions for safety handwheels (see page 133)

TECHNICAL INFORMATION

- Keyway P9 DIN 6885 (see page A16)
- ISO-Fundamental Tolerances (see page A21)





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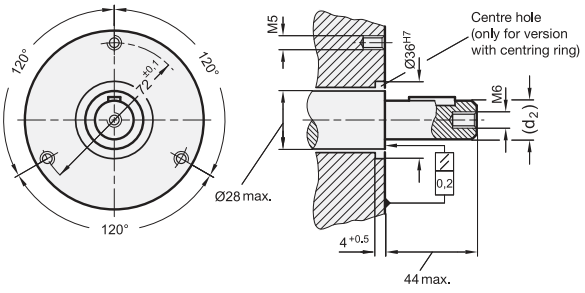
ASSEMBLY INSTRUCTIONS

Shaft bush and countershaft pulley are delivered in two separate components. Before assembly, make sure that the shaft bush can be pushed smoothly and free-moving over the shaft.
Proper function is guaranteed only if:
- shaft bush and bearing surface are level with each other
- the shaft axis lies at a right angle to the bearing surface on the machine side.

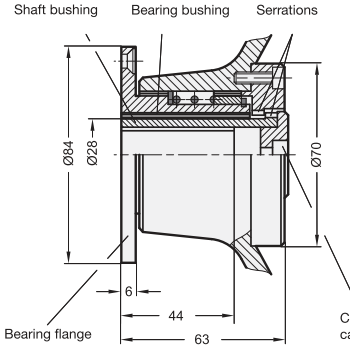
Design with bearing bush (Mode 1)
Push the handwheel and the shaft bush at the same time over the shaft, bolt down the bearing flange, and fix the shaft bush axially with the countershaft pulley

Design with centring ring (Mode 2)
The handwheel can be bolted at once through the centring ring above the bearing flange. Then push the shaft bush onto the shaft and fix it axially with the countershaft pulley.

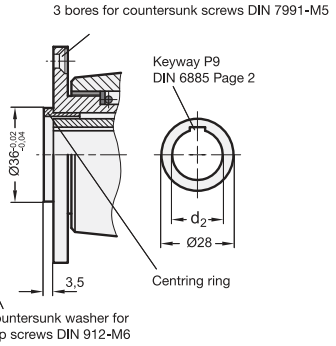
Specification of shaft and dimensions



with bearing bush: Identification no. 1



with centring ring: Identification no. 2



*Complete with Identification no. of the Handwheel (1 or 2)

1	2
bearing bush	centring ring

GN 327-A

Description	d1	d2 H7	b	l1	⚖
GN 327-160-K14-A-*	160	K 14	18	66	1706
GN 327-160-K16-A-*	160	K 16	18	66	1690
GN 327-160-K18-A-*	160	K 18	18	66	1670
GN 327-160-K20-A-*	160	K 20	18	66	1649
GN 327-200-K14-A-*	200	K 14	20.5	68	2047
GN 327-200-K16-A-*	200	K 16	20.5	68	2031
GN 327-200-K18-A-*	200	K 18	20.5	68	2011
GN 327-200-K20-A-*	200	K 20	20.5	68	1990

GN 327-D

Description	d1	d2 H7	b	l1	l2	r	Ø Handle	⚖
GN 327-160-K14-D-*	160	K 14	18	66	82.5	71	26	1820
GN 327-160-K16-D-*	160	K 16	18	66	82.5	71	26	1794
GN 327-160-K18-D-*	160	K 18	18	66	82.5	71	26	1774
GN 327-160-K20-D-*	160	K 20	18	66	82.5	71	26	1753
GN 327-200-K14-D-*	200	K 14	20.5	68	82.5	89	26	2151
GN 327-200-K16-D-*	200	K 16	20.5	68	82.5	89	26	2135
GN 327-200-K18-D-*	200	K 18	20.5	68	82.5	89	26	2117
GN 327-200-K20-D-*	200	K 20	20.5	68	82.5	89	26	2094

Weight Identification no. 1

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Coupling attachments

for safety handwheels, with friction bearing

SPECIFICATION

Steel
nitrided

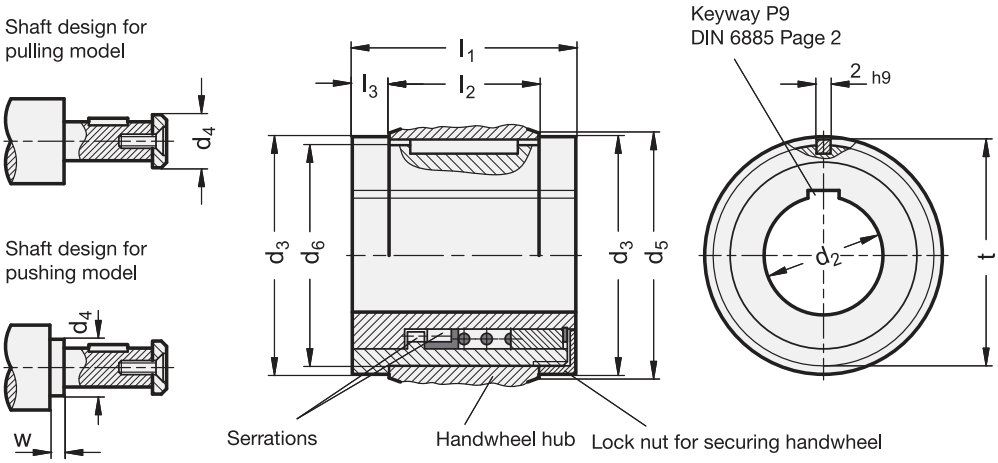
Bearing surface ground and / or PTFE-coated

INFORMATION

The PTFE-coated surfaces of the coupling attachments GN 000.4 provide minimal friction between bearing surfaces even when lubrication is being neglected.
An oil-hole is provided which in the completely assembled safety handwheel connects with the wheel hub.

TECHNICAL INFORMATION

- Keyway P9 DIN 6885 (see page A16)
- ISO-Fundamental Tolerances (see page A21)



GN 000.4

Description	No.	d1 Ø Handwheel GN 321 GN 322 GN 323	d2 H7	d3	d4 max.	d5 Mini-mum-Ø of handwheel hub	d6 -0.03 Bore-Ø of hub d6 H7	l1	l2 ±0.1	l3	t	w min.	⚖
GN 000.4-1-K12	1	125	K 12	28	17	29	25	28.5	18 | 19	5	26	4	81
GN 000.4-2-K14	2	140	K 14	32	21	33	29	32.5	19 | 20	6	30	4	123
GN 000.4-2-K16	2	140	K 16	32	21	33	29	32.5	19 | 20	6	30	4	110
GN 000.4-3-K18	3	160	K 18	38	26	39	35	36.5	24	6	36	4	190
GN 000.4-3-K20	3	200	K 20	38	26	39	35	36.5	24	6	36	4	173
GN 000.4-4-K22	4	250	K 22	45	30	46	41	47.5	28	12	42	4	349

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GN 000.5

Coupling attachments

for safety handwheels, with needle bearing

SPECIFICATION

Steel
hardened

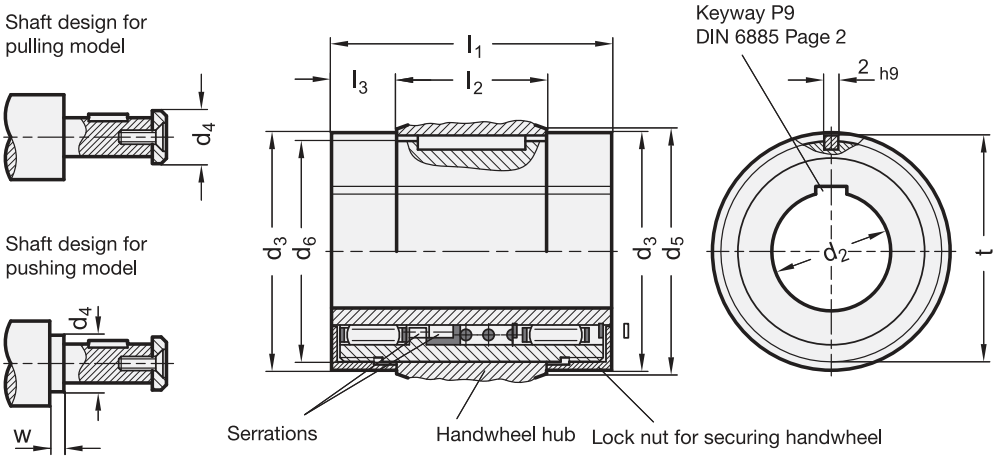
Bearing surfaces ground

INFORMATION

The use of needle bearings and the hardened bearing surfaces make the clutch engagement extremely easy. This is also assisted by the finer teeth of the clutch and the increased length of the coupling attachment.
It is suitability for high shaft speeds, especially when these are maintained for long periods, is a further advantage of the needle bearing.
An oil-hole is provided which in the completely assembled safety handwheel connects with the wheel hub.

TECHNICAL INFORMATION

- Keyway P9 DIN 6885 (see page A16)
- ISO-Fundamental Tolerances (see page A21)



GN 000.5

Description	No.	d1 Ø Handwheel GN 321 GN 322 GN 323	d2 H7	d3	d4 max.	d5	d6 -0.05 Bore-Ø of hub d6 H7	l1	l2 ±0.1	l3	t	w min.	⚖
GN 000.5-1-K12	1	125	K 12	29	17	29	25	42	18 | 19	12	26	4	130
GN 000.5-2-K14	2	140	K 14	33	21	33	29	48	19 | 20	14	30	4	193
GN 000.5-3-K18	3	200	K 18	39	26	39	35	50	24	13	36	4	275
GN 000.5-4-K22	4	160	K 22	46	30	46	41	54	28	13	42	4	390

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Disc handwheels

Aluminium

SPECIFICATION

Bore codes

- Version **B**: without keyway
- Version **K**: with keyway

Aluminium

- Hub machined
- Rim turned and polished
- Unmachined body shot-blasted

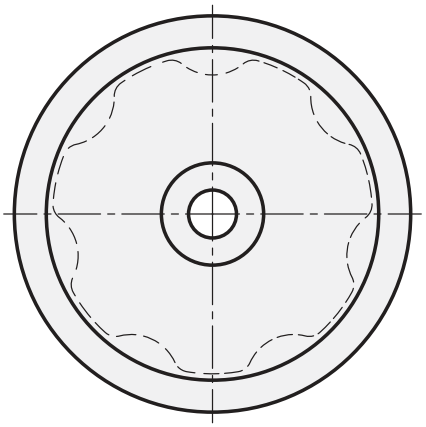
Rim concentric and square to bore < 0.4

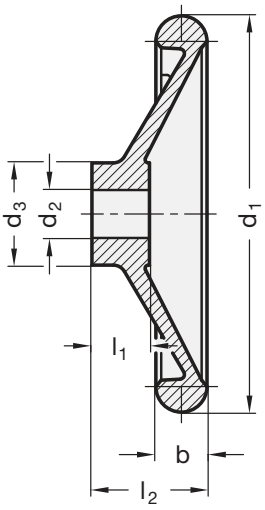
INFORMATION

Disc handwheels DIN 3670 have recessed grips at their back. As a rule they are supplied without handle, but the mounting of a handle is possible.
The handwheel diameter d_1=80 and d_1=400 are not provided in the official standard sheet.

TECHNICAL INFORMATION

- Keyway P9 DIN 6885 (see page A16)
- Cross holes GN 110 (see page A17)
- ISO-Fundamental Tolerances (see page A21)





*Complete with Bore codes of the Handwheel (B or K)

B	K
without keyway	with keyway

DIN 3670

Description	d1	d2 H7	d3	b	l1	l2 ≈	⚖
DIN 3670-80-*-10	80	10	26	14	16	29	128
DIN 3670-80-*-12	80	12	26	14	16	29	127
DIN 3670-100-*-10	100	10	28	15	17	33	188
DIN 3670-100-*-12	100	12	28	15	17	33	185
DIN 3670-125-*-12	125	12	31	16	18	36	306
DIN 3670-125-*-14	125	14	31	16	18	36	304
DIN 3670-160-*-14	160	14	36	18	20	40	514
DIN 3670-160-*-16	160	16	36	18	20	40	480
DIN 3670-200-*-18	200	18	42	22	24	45	943
DIN 3670-200-*-20	200	20	42	22	24	45	938
DIN 3670-200-*-22	200	22	42	22	24	45	934
DIN 3670-250-*-22	250	22	48	26	28	50	1608
DIN 3670-250-*-24	250	24	48	26	28	50	1596
DIN 3670-250-*-26	250	26	48	26	28	50	1582
DIN 3670-315-*-26	315	26	56	28	33	56	2695
DIN 3670-315-*-28	315	28	56	28	33	56	2689
DIN 3670-315-*-30	315	30	56	28	33	56	2683
DIN 3670-400-*-30	400	30	65	32	38	63	4370
DIN 3670-400-*-32	400	32	65	32	38	63	4342

Weight bore code B

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VBR.2

Two-arm handwheels

Technopolymer and steel

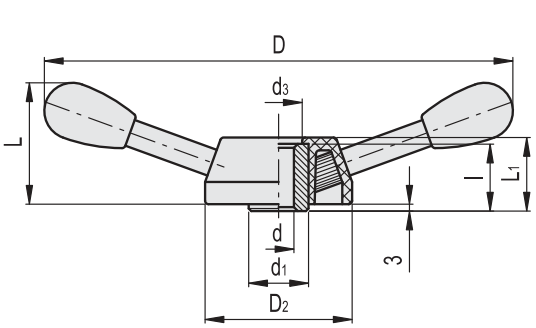
MATERIAL
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, glossy finish.

ARMS
Matte chrome-plated steel complete with handles type I.622 (see page 535) in technopolymer.

STANDARD EXECUTION
Black-oxide steel boss, uncovered front end with pre-drilled pass-through hole.

ACCESSORIES ON REQUEST
Axial retaining washer GN 184 (see page 971).

ELESA Original design



Code	Description	D	dH9	L	L1	D2	d1	d3	l	C# [Nm]	⚖
65801	VBR.2/200	200	10	60	42	86	35	34	38	195	600
65811	VBR.2/280	274	10	74	42	86	35	34	38	195	715
65821	VBR.2/320	312	10	80	42	86	35	34	38	195	780
65831	VBR.2/370	363	10	90	42	86	35	34	38	195	865

For maximum applicable torque (C) and impact strength (L) see Technical Data on page A3.

VBR.4

Four-arm handwheels

Technopolymer and steel

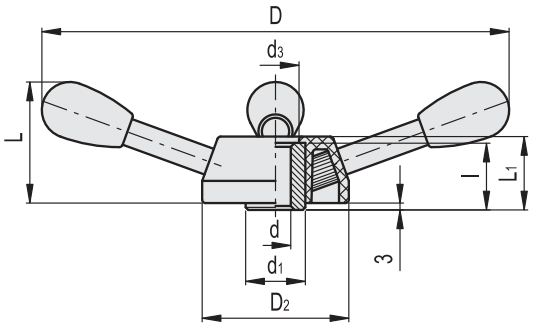
MATERIAL
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, glossy finish.

ARMS
Matte chrome-plated steel complete with handles type I.622 (see page 535) in technopolymer.

STANDARD EXECUTION
Black-oxide steel boss, uncovered front end with pre-drilled pass-through hole.

ACCESSORIES ON REQUEST
Axial retaining washer GN 184 (see page 971).

ELESA Original design



Code	Description	D	dH9	L	L1	D2	d1	d3	l	C# [Nm]	⚖
65901	VBR.4/200	200	10	60	42	86	35	34	38	195	780
65911	VBR.4/280	274	10	74	42	86	35	34	38	195	1030
65921	VBR.4/320	312	10	80	42	86	35	34	38	195	1150
65931	VBR.4/370	363	10	90	42	86	35	34	38	195	1315

For maximum applicable torque (C) and impact strength (L) see Technical Data on page A3.

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Turret levers

Steel, blackened

SPECIFICATION

Steel
blackened

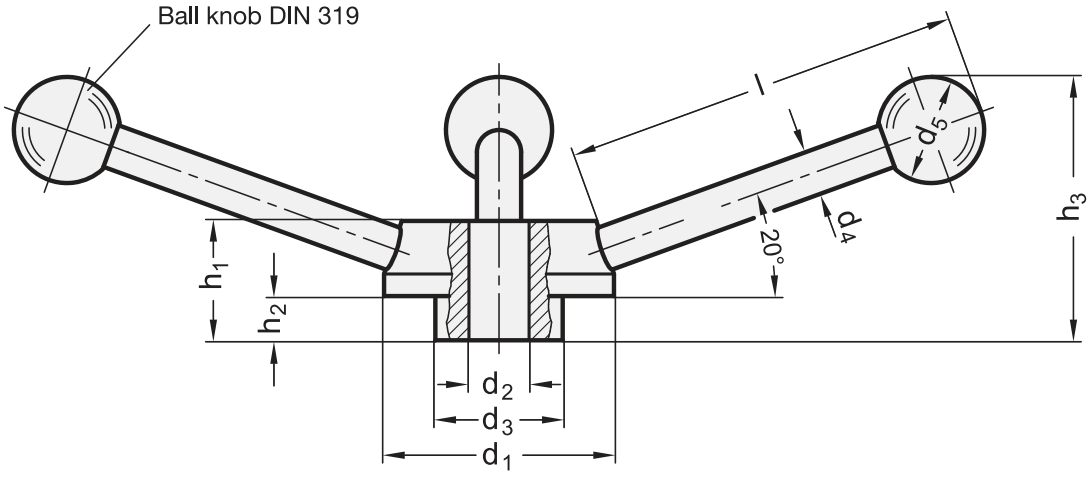
Ball knobs DIN 319 (see page 538)
Plastic, Duroplast
black, shiny finish

INFORMATION

Turret levers GN 213 can also be supplied as standard with:
Square DIN 79 **V** + Bore-Ø
Keyway DIN 6885 **K** + Bore-Ø

TECHNICAL INFORMATION

- Keyway P9 DIN 6885 (see page A16)
- ISO Fundamental Tolerances (see page A21)



GN 213

Description	d1	d2 H7	d3	d4	d5	h1	h2	h3 ≈	l ≈	⚖
GN 213-50-B12	50	B 12	28	8	20	26	9	53	82	382
GN 213-50-V12	50	V 12	28	8	20	26	9	53	82	375
GN 213-50-K12	50	K 12	28	8	20	26	9	53	82	380
GN 213-55-B14	55	B 14	30	10	25	28	10	61	96	544
GN 213-55-V14	55	V 14	30	10	25	28	10	61	96	536
GN 213-55-K14	55	K 14	30	10	25	28	10	61	96	541
GN 213-60-B15	60	B 15	32	10	25	30	11	64	96	633
GN 213-60-V15	60	V 15	32	10	25	30	11	64	96	590
GN 213-60-K15	60	K 15	32	10	25	30	11	64	96	630
GN 213-65-B16	65	B 16	35	12	30	32	12	71	110	848
GN 213-65-V16	65	V 16	35	12	30	32	12	71	110	833
GN 213-65-K16	65	K 16	35	12	30	32	12	71	110	860
GN 213-72-B18	72	B 18	40	12	32	36	14	80	124	1097
GN 213-72-V18	72	V 18	40	12	32	36	14	80	124	1087
GN 213-72-K18	72	K 18	40	12	32	36	14	80	124	1092
GN 213-80-B20	80	B 20	44	14	35	40	16	89	138	1531
GN 213-80-V20	80	V 20	44	14	35	40	16	89	138	1517
GN 213-80-K20	80	K 20	44	14	35	40	16	89	138	1525
GN 213-100-B24	100	B 24	54	16	40	52	24	113	170	2781
GN 213-100-V24	100	V 24	54	16	40	52	24	113	170	2769
GN 213-100-K24	100	K 24	54	16	40	52	24	113	170	2775

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Crank handles

Technopolymer

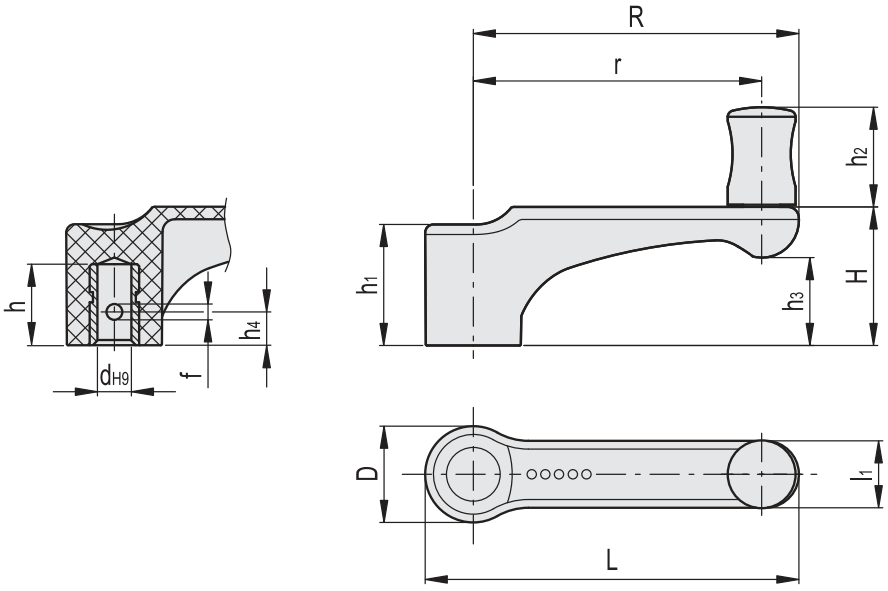
MATERIAL

Glass-fibre reinforced polyamide based (PA) technopolymer, greyblack colour, matte finish.

STANDARD EXECUTIONS

Brass boss, cylindrical blind hole, transversal semi-machined hole for pinning to shaft.
Revolving handle I.741+x (see page 581) in technopolymer.
The grooves cut into the cylindrical surface allow an effective and ergonomic grip, though necessarily limited to the fingertips, due to the small size of the handle.

ERGOSTYLE®



Code	Description	R	dH9	L	D	l1	h	h1	h2	h3	h4	H	r	f	⚖
232411-C1	ERFW.44 N-6+I-C1	44	6	52	15.5	11	15	19	20	12.5	7	21	38	3	18
232431-C1	ERFW.63 N-8+I-C1	63	8	73.5	19	13.5	20	24.5	23	18.5	8	28.5	56	4	28
232451-C1	ERFW.78 N-10+I-C1	78	10	90.5	23	16	25	29.5	23	18	9	30	71	4	43

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RoHS PA PP +90° 0°

Crank handles

Technopolymer

MATERIAL
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

SELF-ADHESIVE FRONT PLATE
Anodised aluminium.

STANDARD EXECUTIONS
- **MT.:** with revolving handle I.601+x (see page 575) in technopolymer. Black-oxide steel hub, H9 blind hole or H7 reamed pass-through hole.
- **MT-AS:** with revolving handle I.601+x (see page 575) in technopolymer. Black-oxide steel boss with H9 square pass-through hole.

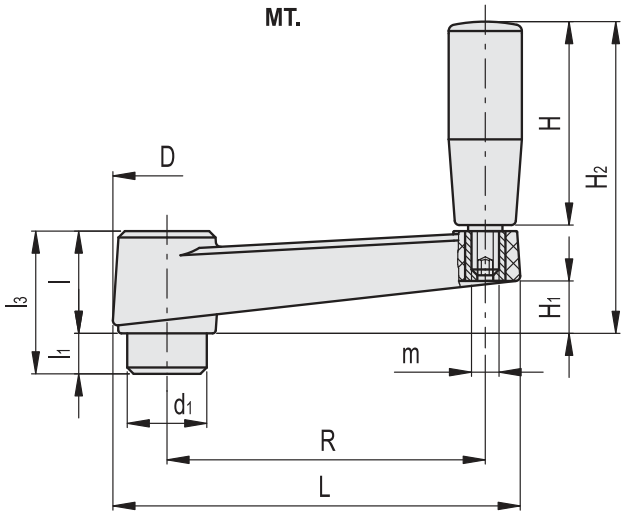
MT.50-AS H9 square pass-through hole with brass reinforcement.
- **MT+IR:** with fold-away handle IR.602 in technopolymer. Black-oxide steel hub, H9 blind hole or H7 reamed pass-through hole.

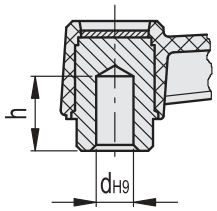
FEATURES AND APPLICATIONS
The reticular structure of the crank arm and the technopolymer used make this handle very strong and therefore suitable for transmitting high torque values.

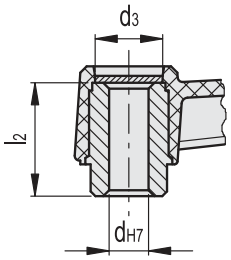
ACCESSORIES ON REQUEST
Axial retaining washer GN 184 (see page 971).

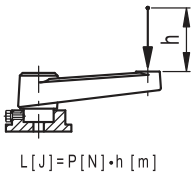
ELESA Original design if 79 design80 stuttgart

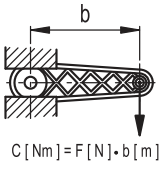
MT.











MT.

Code	Description	R	dH7	dH9	L	D	d1	d3	l	l1	l2	l3	h	H	H1	H2	m	C# [Nm]	L# [J]	⚖
44051	MT.50 A-6	50	6	-	69	23	16	13	21	10	28	31	-	28	10	49	-	60	7	65
44091	MT.64	64	-	6	86	27	18	16	23	10	29	33	18	40	10	63	M6	120	11	100
44101	MT.64 A-8	64	8	-	86	27	18	16	23	10	29	33	-	40	10	63	M6	120	11	95
44102	MT.64-A10	64	10	-	86	27	18	16	23	10	29	33	-	40	10	63	M6	120	11	93
44191	MT.80	80	-	6	105	30	22	17	26	10	32	36	26	50	13	76	M6	180	15	145
44201	MT.80 A-10	80	10	-	105	30	22	17	26	10	32	36	-	50	13	76	M6	180	15	130
44291	MT.100	100	-	8	128	34	24	21	30	10	37	40	28	65	15	96	M8	200	27	240
44301	MT.100 A-12	100	12	-	128	34	24	21	30	10	37	40	-	65	15	96	M8	200	27	225
44391	MT.130	130	-	10	162	40	28	25	35	14	44	49	30	80	20	115	M8	350	45	345
44401	MT.130 A-14	130	14	-	162	40	28	25	35	14	44	49	-	80	20	115	M8	350	45	310
44491	MT.160	160	-	10	198	45	34	27	40	15	49	55	30	90	23	130	M10	450	55	495
44501	MT.160 A-16	160	16	-	198	45	34	27	40	15	49	55	-	90	23	130	M10	450	55	435
44601	MT.210	212	-	12	252	50	40	31	45	15	53	60	30	90	26	136	M10	950	80	705

For maximum applicable torque (C) and impact strength (L) see Technical Data on page A3.

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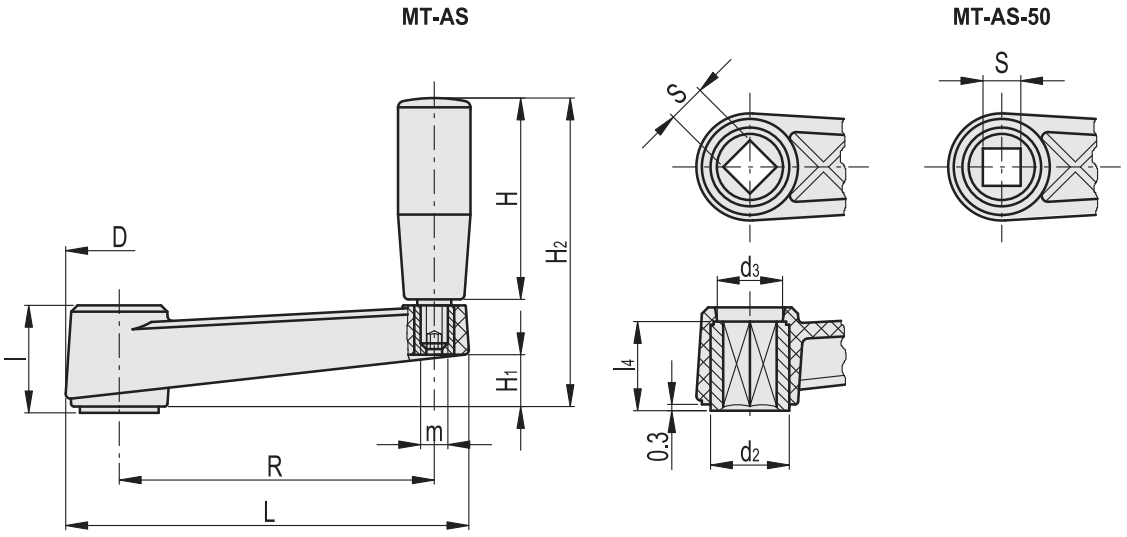
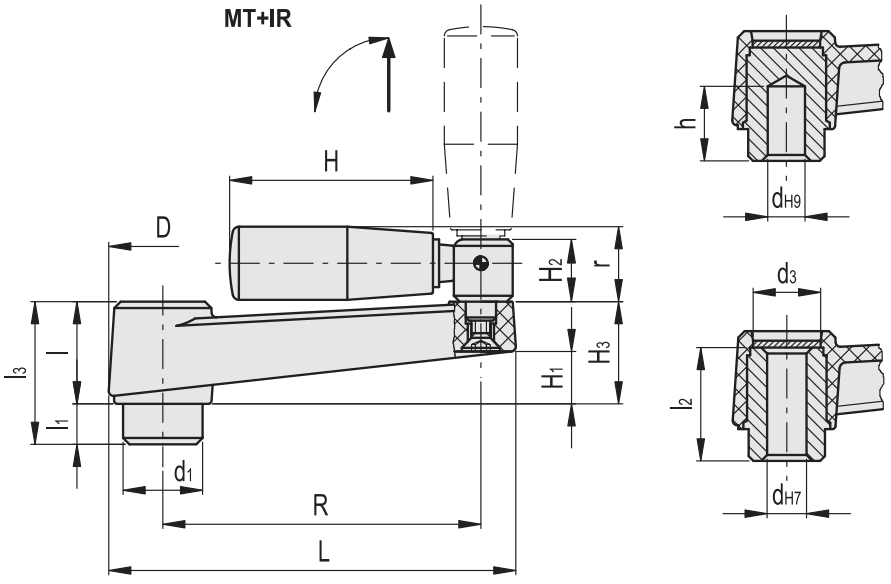


MT-AS

Code	Description	R	SH9	L	D	d2	d3	l	l4	H	H1	H2	m	C# [Nm]	L# [J]	⚖
44052	MT.50 AS-6x6	50	6	69	23	-	13	21	18	28	10	49	-	60	7	35
44111	MT.64 AS-8x8	64	8	86	27	18	16	23	19	40	10	63	M6	120	11	78
44211	MT.80 AS-10x10	80	10	105	30	20	17	26	22	50	13	76	M6	180	15	105
44311	MT.100 AS-12x12	100	12	128	34	25	21	30	27	65	15	96	M8	200	27	190
44411	MT.130 AS-14x14	130	14	162	40	28	25	35	30	80	20	115	M8	350	45	255
44511	MT.160 AS-17x17	160	17	198	45	30	27	40	34	90	23	130	M10	450	55	335



MT+IR

Code	Description	R	dH7	dH9	L	D	d1	d3	l	l1	l2	l3	h	H	H1	H2	H3	r	C# [Nm]	L# [J]	⚖
44216	MT.80+IR	80	-	6	105	30	22	17	26	10	32	36	26	56	13	15	27	19	180	15	177
44221	MT.80+IR A-10	80	10	-	105	30	22	17	26	10	32	36	-	56	13	15	27	19	180	15	163
44316	MT.100+IR	100	-	8	128	34	24	21	30	10	37	40	28	65	15	20	31	22	200	27	285
44321	MT.100+IR A-12	100	12	-	128	34	24	21	30	10	37	40	-	65	15	20	31	22	200	27	265
44416	MT.130+IR	130	-	10	162	40	28	25	35	14	44	49	30	65	20	20	35	22	350	45	385
44421	MT.130+IR A-14	130	14	-	162	40	28	25	35	14	44	49	-	65	20	20	35	22	350	45	340
44516	MT.160+IR	160	-	10	198	45	34	27	40	15	49	55	30	80	23	20	40	24	450	55	525
44521	MT.160+IR A-16	160	16	-	198	45	34	27	40	15	49	55	-	80	23	20	40	24	450	55	473
44621	MT.210+IR	212	-	12	252	50	40	31	45	15	53	60	30	90	26	23	46	27	950	80	840

For maximum applicable torque (C) and impact strength (L) see Technical Data on page A3.

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Crank handles

Technopolymer

MATERIAL

Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

STANDARD EXECUTIONS

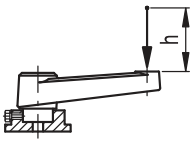
Black-oxide steel boss, H9 reamed hole.

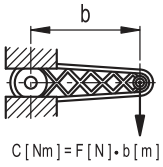
- **MT-AT:** with revolving handle I.621+x (see page 576) in technopolymer, not removable.
- **MT-AT+IR:** with fold-away handle IR.620 (see page 584) in technopolymer.

FEATURES AND APPLICATIONS

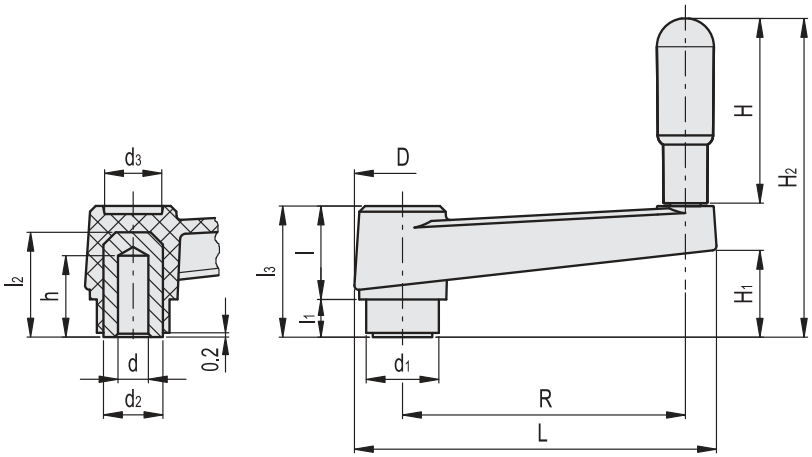
The reticular structure of the crank arm and the technopolymer used make this handle very strong and therefore suitable for transmitting high torque values.

ELESA Original design

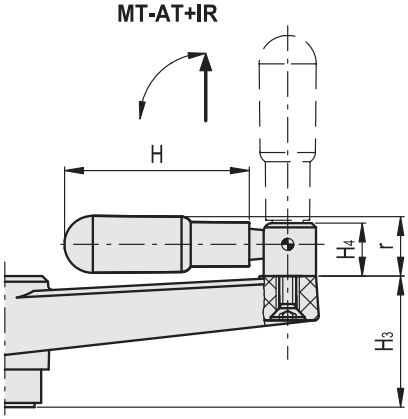




MT-AT



MT-AT+IR



MT-AT

Code	Description	R	dH9	L	D	d1	d2	d3	l	l1	l2	l3	h	H	H1	H2	C# [Nm]	L# [J]	⚖
44053	MT.50-AT	50	6	69	22.5	18	15	13	20.5	9	23	29.5	18	35	18.5	66	80	7	55
44113	MT.64-AT	64	8	86	26.5	20	15	16	22.5	9	25	31.5	20	45	17.5	78	120	11	82
44213	MT.80-AT	80	10	106	30	24	18	17	26	11	31	37	25	60	23.5	99	200	15	118
44313	MT.100-AT	100	12	128	33.5	24	18	21	30.5	10	31	40.5	24	65	25	106	210	27	190
44413	MT.130-AT	130	14	162	39	34	26	25	35	14	43	49	30	65	32.5	113	350	45	335
44513	MT.160-AT	160	16	197	44	34.5	26	27	39.5	15	43	54.5	30	80	36	136	470	55	375

MT-AT+IR

Code	Description	R	dH9	L	D	d1	d2	d3	l	l1	l2	l3	h	H	H1	H3	H4	r	C# [Nm]	L# [J]	⚖
44117	MT.64-AT+IR	64	8	86	26.5	20	15	16	22.5	9	25	31.5	20	45	17.5	31	14	16	120	11	89
44217	MT.80-AT+IR	80	10	106	30	24	18	17	26	11	31	37	25	60	23.5	37	14	16.5	200	15	130
44317	MT.100-AT+IR	100	12	128	33.5	24	18	21	30.5	10	31	40.5	24	65	25	39	18.5	20.5	210	27	200
44417	MT.130-AT+IR	130	14	162	39	34	26	25	35	14	43	49	30	65	34	49	18.5	20.5	350	45	330
44517	MT.160-AT+IR	160	16	197	44	34.5	26	27	39.5	15	43	54.5	30	80	36	54	18.5	22	470	55	370

For maximum torque (C) and impact strength (L) see Technical Data on page A3.

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Crank handles

Technopolymer

MATERIAL
Glass-fibre reinforced polyamide based (PA) technopolymer, grey-black colour, matte finish.

HUB CAP
Glass-fibre reinforced polyamide based (PA) technopolymer, in Ergostyle colours, matte finish, press-fit assembly.
Available also as accessory sold separately (see table ECM.).

Code	Description	Boss cap for
29633-*	ECM.K3-*	EKH.100
29634-*	ECM.K4-*	EKH.125

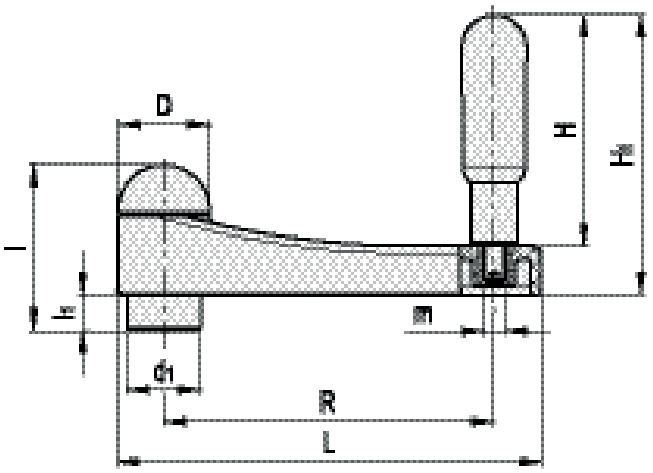
* Complete with colour index (C1, ..., C6).

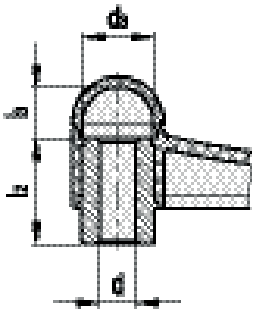
STANDARD EXECUTION
Black-oxide steel hub, H7 reamed hole.
Revolving handle I.621+x (see page 576) in technopolymer.

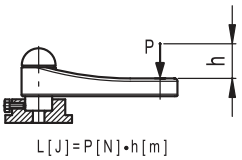
FEATURES AND APPLICATIONS
The reticular structure of the crank arm and the technopolymer used make this handle very strong and therefore suitable for transmitting high torque values.

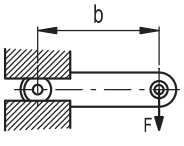
ACCESSORIES ON REQUEST
Axial retaining washer GN 184 (see page 971).

ERGOSTYLE® design96/97 stuttgart iF INDUSTRIE FORUM DESIGN HANNOVER 1995









*Complete with colour index, example: 210241-C2 EKH.100 A-12-C2

C1 RAL7021 | C2 RAL2004 | C3 RAL7035 | C4 RAL1021 | C5 RAL5024 | C6 RAL3000

Code	Description	R	dH7	L	D	d1	d3	l	l1	l2	l3	H	H1	m	C# [Nm]	L# [J]	⚖
210241-*	EKH.100 A-12-*	101	12	131.5	30.5	24	23.5	52.5	10	33	17	65	81	M8	200	27	231
210251-*	EKH.125 A-14-*	126	14	161.5	35	28	26.5	62	14	40	18	80	98.5	M8	350	45	316

For maximum applicable torque (C) and impact strength (L) see Technical Data on page A3.

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Stainless Steel-Cranked handles

SPECIFICATION

Body

- Stainless Steel precision die casting
- AISI CF-8
- Face of the hub machined

Revolving handles
Plastic, Duroplast
black, shiny finish

Spindle
Stainless Steel AISI 304

INFORMATION

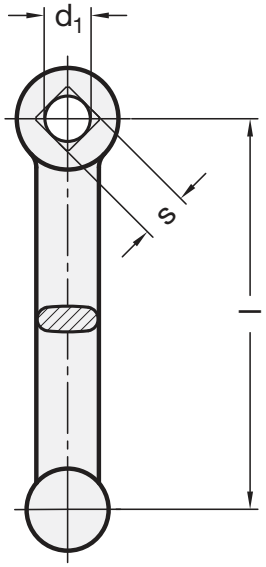
Stainless Steel-Cranked handles GN 269 have been designed to comply with stringent hygiene requirements.
The cylindrical handles are made of thermoset material which in general provides good stability when exposed to chemicals.

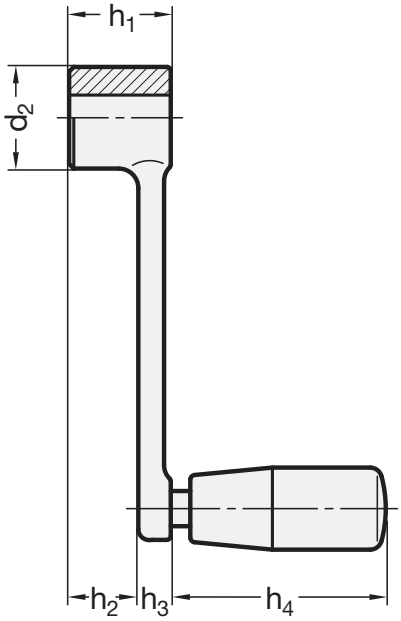
ON REQUEST

- Stainless Steel-Cranked handles with retractable handle GN 798.5 (see page 586)

TECHNICAL INFORMATION

- Square DIN 79 (see page A16)
- Cross holes GN 110 (see page A17)
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)





GN 269 — **STAINLESS STEEL**

Description	l	d1 H9	s H11	d2	h1	h2 ≈	h3	h4 ≈	Ø Handle	⚖
GN 269-80-B10	80	B 10	-	22	22	15.4	6.6	45	18	127
GN 269-80-V10	80	-	V 10	22	22	15.4	6.6	45	18	124
GN 269-100-B12	100	B 12	-	26	26	17.7	8.3	55	21	200
GN 269-100-V12	100	-	V 12	26	26	17.7	8.3	55	21	187
GN 269-125-B14	125	B 14	-	28	28	18.8	9.2	71	23	305
GN 269-125-V14	125	-	V 14	28	28	18.8	9.2	71	23	291
GN 269-160-B17	160	B 17	-	32	32	22.6	9.4	71	23	396
GN 269-160-V17	160	-	V 17	32	32	22.6	9.4	71	23	372

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GN 369

Cranks

Steel

SPECIFICATION

Types

- Type **A**: without slot
- Type **N**: with slot

Steel

- shot-blasted and nickel plated
- Crank butt-welded

Plastic cap
black

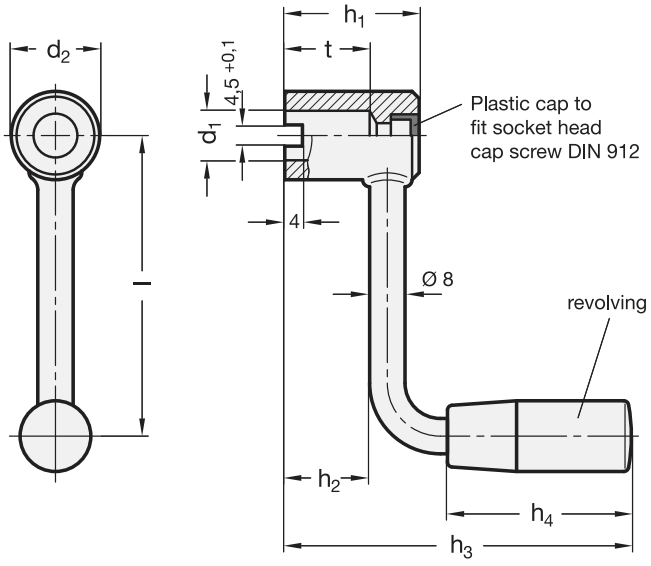
Cylindrical Revolving handles GN 598 (see page 573)
Plastic, Duroplast
black, shiny finish

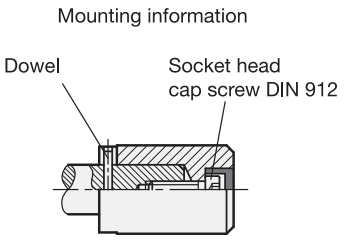
INFORMATION

Cranks GN 369 are for light duty applications and are of extremely good value.
A suitable dowel in the shaft and the slot in the handle provides a cheap connection to the shaft. To secure the handle permanently to the shaft, remove the plastic cap and insert screw.
Due to the production method which is not dependent on a specific shape, these cranked handles can be produced as specials at a competitive price.

TECHNICAL INFORMATION

- Cross holes GN 110 (see page A17)
- ISO-Fundamental Tolerances (see page A21)





GN 369

Description	l	d1 H9	d2	h1	h2 ≈	h3 ≈	h4 ≈	t +0.5	Ø Handle	For screws DIN 912	⚖
GN 369-63-B10-A	63	B 10	18	28	18	74	40	18	18	M5	88
GN 369-63-B10-N	63	B 10	18	28	18	74	40	18	18	M5	87
GN 369-80-B10-A	80	B 10	18	28	18	74	40	18	18	M5	94
GN 369-80-B10-N	80	B 10	18	28	18	74	40	18	18	M5	93
GN 369-100-B12-A	100	B 12	20	30	20	88	50	20	21	M6	122
GN 369-100-B12-N	100	B 12	20	30	20	88	50	20	21	M6	121
GN 369-125-B12-A	125	B 12	20	30	20	88	50	20	21	M6	135
GN 369-125-B12-N	125	B 12	20	30	20	88	50	20	21	M6	131

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Cranked handles

Aluminium

SPECIFICATION

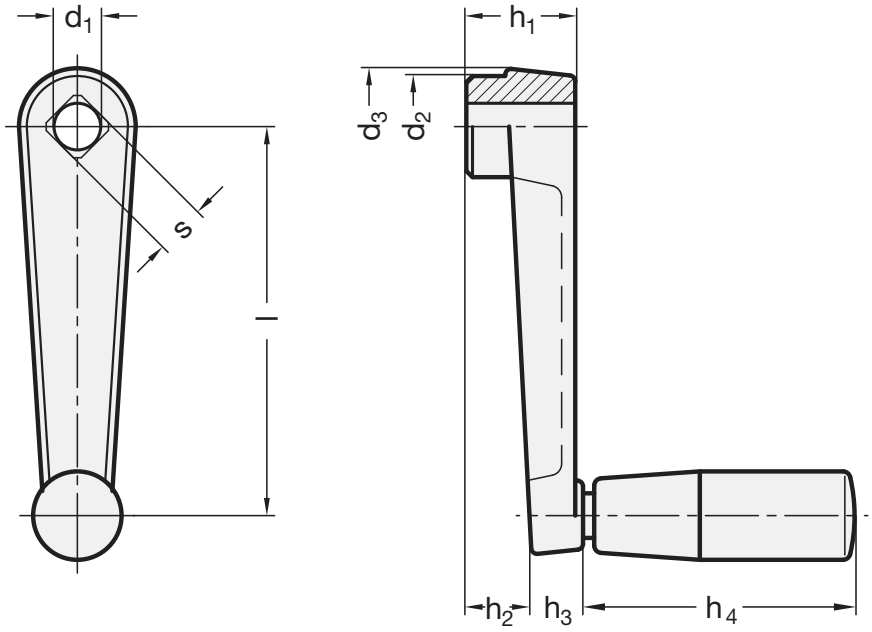
Body

- Aluminium
- plastic coated, black, textured finish
- hub machined

Cylindrical Revolving handles GN 598 (see page 573)
Plastic, Technopolymer
black, matt

TECHNICAL INFORMATION

- Square DIN 79 (see page A16)
- Cross holes GN 110 (see page A17)
- ISO-Fundamental Tolerances (see page A21)



GN 471

Description	l	d1 H7	s H11	d2	d3	h1	h2 ≈	h3	h4 ≈	Ø Handle	⚖
GN 471-80-B10	80	B 10	-	23	26	24	14	14	52.5	21	120
GN 471-80-V10	80	-	V 10	23	26	24	14	14	52.5	21	98
GN 471-100-B12	100	B 12	-	27	30	28	17	15	67.5	23	170
GN 471-100-V12	100	-	V 12	27	30	28	17	15	67.5	23	150
GN 471-125-B14	125	B 14	-	32	35	34	22	18	82.5	26	255
GN 471-125-V14	125	-	V 14	32	35	34	22	18	82.5	26	240
GN 471-160-B17	160	B 17	-	35	39	38	26	18	82.5	26	301
GN 471-160-V17	160	-	V 17	35	39	38	26	18	82.5	26	280

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GN 471.1

Cranked handles

Zinc die casting

SPECIFICATION

Body

- Zinc die casting
- plastic coated, black, textured finish
- hub machined

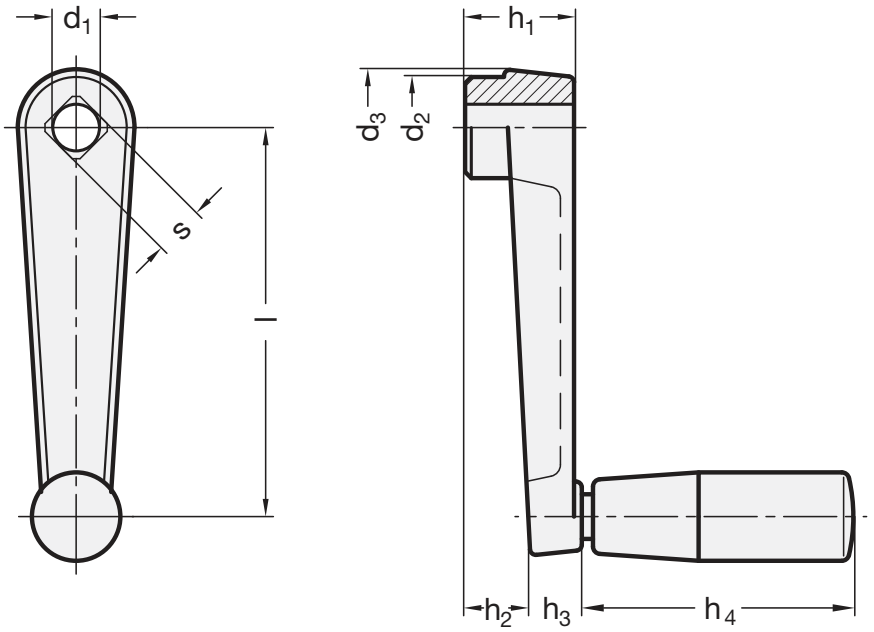
Cylindrical Revolving handles GN 598 (see page 573)
Plastic, Technopolymer, black matt

INFORMATION

- Cranked handles GN 471 (see page 196)

TECHNICAL INFORMATION

- Square DIN 79 (see page A16)
- Cross holes GN 110 (see page A17)
- ISO-Fundamental Tolerances (see page A21)



GN 471.1

Description	l	d1 H7	s H11	d2	d3	h1	h2	h3	h4 ≈	Ø Handle	⚖
GN 471.1-50-B8	50	B 8	-	16	18	18	10	10	28.5	14	70
GN 471.1-50-V8	50	-	V 8	16	18	18	10	10	28.5	14	58
GN 471.1-64-B10	64	B 10	-	19	22	20	11	12	42.5	18	100
GN 471.1-64-V10	64	-	V 10	19	22	20	11	12	42.5	18	97
GN 471.1-80-B10	80	B 10	-	23	26	24	14	14	52.5	21	170
GN 471.1-80-V10	80	-	V 10	23	26	24	14	14	52.5	21	162
GN 471.1-100-B12	100	B 12	-	27	30	28	17	15	67.5	23	275
GN 471.1-100-V12	100	-	V 12	27	30	28	17	15	67.5	23	270

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GN 471.3

RoHS

Cranked handles with rectractable handle

Aluminium

SPECIFICATION

Body

- Aluminium
- plastic coated, black, textured finish
- hub machined

Retractable handles GN 598.3 (see page 585)
Plastic, Duroplast
black, shiny finish

Retractable mechanism
Steel, blackened

INFORMATION

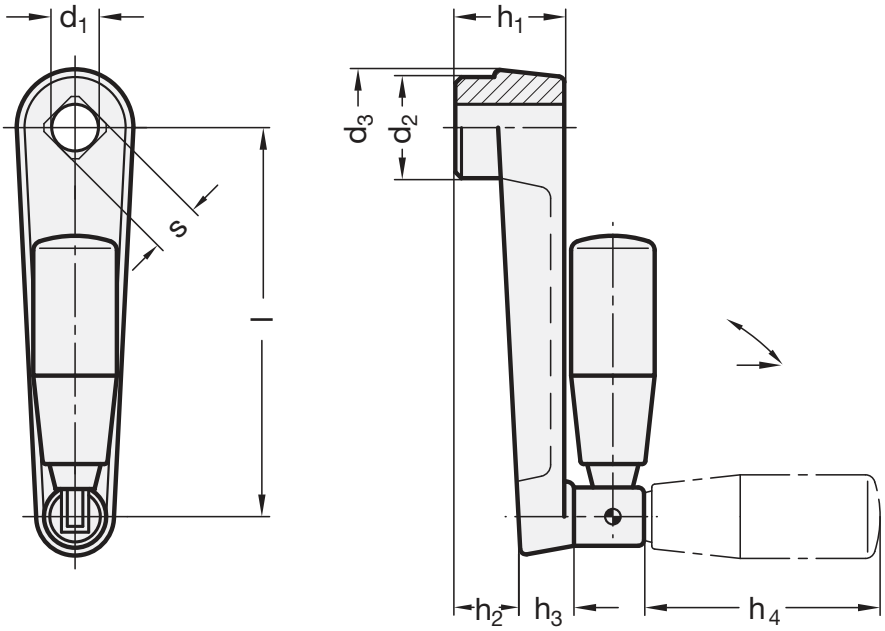
The handpiece of cranked handles GN 471.3 is locked in a tapered bore in the operating position.
For tilting, the handle must first be pulled out of the taper in axial direction.
A compression spring holds the handle in both end positions. When folded out, it automatically re-engages.

ON REQUEST

- with retractable handle GN 598.5 (retractable mechanism Stainless Steel) (see page 585)

TECHNICAL INFORMATION

- Square DIN 79 (see page A16)
- Cross holes GN 110 (see page A17)
- ISO-Fundamental Tolerances (see page A21)



GN 471.3

Description	l	d1 H7	s H11	d2	d3	h1	h2	h3	h4 ≈	Ø Handle	⚖
GN 471.3-100-B12	100	B 12	-	27	30	28	17	13	67.5	23	199
GN 471.3-100-V12	100	-	V 12	27	30	28	17	13	67.5	23	194
GN 471.3-125-B14	125	B 14	-	32	35	34	22	14	67.5	23	254
GN 471.3-125-V14	125	-	V 14	32	35	34	22	14	67.5	23	247
GN 471.3-160-B17	160	B 17	-	35	39	38	26	16	82.5	26	346
GN 471.3-160-V17	160	-	V 17	35	39	38	26	16	82.5	26	340

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GN 472.3

Cranked handles with retractable handle

Aluminium

SPECIFICATION

Body
Aluminium

plastic coated
black, RAL 9005, textured finish **SW**
silver, RAL 9006, textured finish **SR**

hub machined

Hub cover
light grey

Retractable handles GN 798.3 (see page 586)
Plastic, Technopolymer
black, matt finish

Retractable mechanism
Steel, blackened

INFORMATION

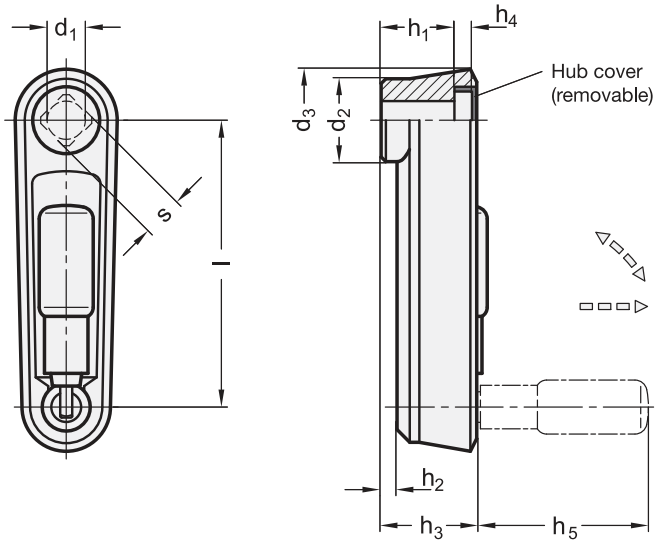
The handpiece of cranked handles GN 472.3 is locked in a tapered bore in the operating position.
For tilting, the handle must first be pulled out of the taper in axial direction.
A compression spring holds the handle in both end positions. When folded out, it automatically re-engages.

ON REQUEST

- Retractable handle GN 798.5 (retractable mechanism Stainless Steel) (see page 586)

TECHNICAL INFORMATION

- Square DIN 79 (see page A16)
- Cross holes GN 110 (see page A17)
- ISO-Fundamental Tolerances (see page A21)



*Complete with colour index of the clamping lever body (SW or SR)

SW RAL9005 SR RAL9006

GN 472.3

Description	l	d1 H7	s H11	d2	d3	h1	h2	h3	h4	h5 ≈	Ø Handle	⚖
GN 472.3-80-B10-*	80	B 10	-	23	29	20	4	26	4.3	43	16	131
GN 472.3-80-V10-*	80	-	V 10	23	29	20	4	26	4.3	43	16	130
GN 472.3-100-B12-*	100	B 12	-	26	34	24	5.5	30	4.2	57.5	18	190
GN 472.3-100-V12-*	100	-	V 12	26	34	24	5.5	30	4.2	57.5	18	180
GN 472.3-125-B14-*	125	B 14	-	28	36	31	10.5	37	4.2	76.5	24	270
GN 472.3-125-V14-*	125	-	V 14	28	36	31	10.5	37	4.2	76.5	24	260

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Cranked handles

Cast iron

SPECIFICATION

Types

- Type **F**: with fixed handle
- Type **D**: with revolving handle

Crank handle body
Cast iron (GG)

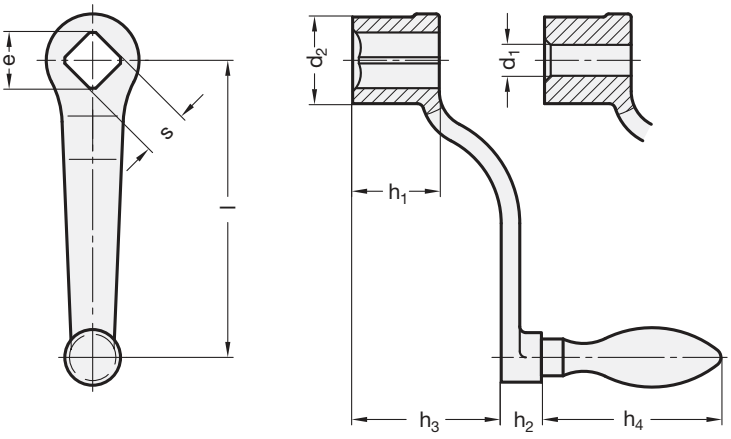
- plastic coated, black, textured finish
- hub machined

Fixed handles DIN 39 (see page 565)
Steel zinc plated, blue passivated

Revolving handles DIN 98 (see page 579)
Steel zinc plated, blue passivated

INFORMATION

The hub bores d1 H7 are not provided for in the official standard sheet.



*Complete with types of the Cranked handles (F or D)

F	D
fixed handle	revolving handle

DIN 468

Description	l	s H11	e min.	d1 H7	d2	h1	h2	h3 ≈	h4 ≈ Type D	h4 ≈ Type F	Ø Handle	⚖
DIN 468-63-B6-*	63	-	13.1	B 6	20	20	11	32	54.5	50	16	123
DIN 468-63-V10-*	63	V 10	13.1	-	20	20	11	32	54.5	50	16	114
DIN 468-80-B8-*	80	-	13.1	B 8	24	24	13	38	61	56	18	195
DIN 468-80-V10-*	80	V 10	13.1	-	24	24	13	38	61	56	18	150
DIN 468-80-V12-*	80	V 12	13.1	-	24	24	13	38	61	56	18	173
DIN 468-100-B10-*	100	-	16.1	B 10	28	28	13	48	67	64	20	293
DIN 468-100-V12-*	100	V 12	16.1	-	28	28	13	48	67	64	20	281
DIN 468-100-V14-*	100	V 14	16.1	-	28	28	13	48	67	64	20	268
DIN 468-125-B10-*	125	-	18.1	B 10	34	34	14	55	76	72	22	463
DIN 468-125-V14-*	125	V 14	18.1	-	34	34	14	55	76	72	22	434
DIN 468-125-V17-*	125	V 17	18.1	-	34	34	14	55	76	72	22	413
DIN 468-160-B14-*	160	-	22.2	B 14	38	38	14	65	83	80	25	697
DIN 468-160-V17-*	160	V 17	22.2	-	38	38	14	65	83	80	25	650
DIN 468-160-V19-*	160	V 19	22.2	-	38	38	14	65	83	80	25	630
DIN 468-200-B17-*	200	-	25.2	B 17	44	44	21	78	96.5	90	28	1043
DIN 468-200-V19-*	200	V 19	25.2	-	44	44	21	78	96.5	90	28	999
DIN 468-200-V22-*	200	V 22	25.2	-	44	44	21	78	96.5	90	28	942
DIN 468-250-B17-*	250	-	28.2	B 17	48	48	21	90	105.5	100	32	1517
DIN 468-250-V22-*	250	V 22	28.2	-	48	48	21	90	105.5	100	32	1427
DIN 468-250-V24-*	250	V 24	28.2	-	48	48	21	90	105.5	100	32	1374
DIN 468-315-B20-*	315	-	32.2	B 20	54	54	26	105	117	112	36	2298
DIN 468-315-V24-*	315	V 24	32.2	-	54	54	26	105	117	112	36	2123
DIN 468-315-V27-*	315	V 27	32.2	-	54	54	26	105	117	112	36	2047

Weight type F

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DIN 469

Cranked handles

Cast iron

SPECIFICATION

Types

- Type **F**: with fixed handle
- Type **D**: with revolving handle

Crank handle body
Cast iron (GG)

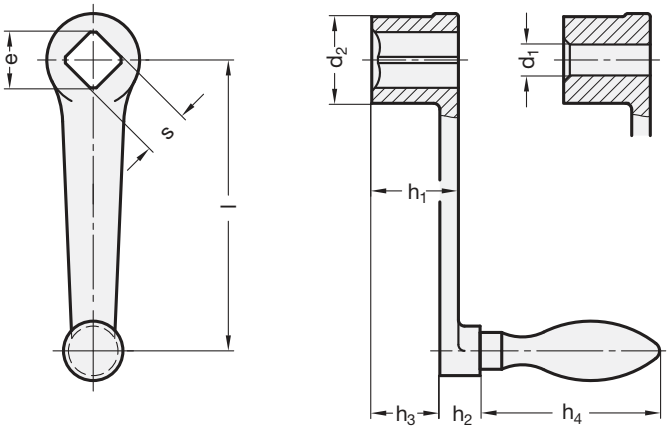
- plastic coated, black, textured finish
- hub machined

Fixed handles DIN 39 (see page 565)
Steel zinc plated, blue passivated

Revolving handles DIN 98 (see page 579)
Steel zinc plated, blue passivated

INFORMATION

The hub bores d_1 H7 are not provided for in the official standard sheet.



*Complete with types of the Cranked handles (F or D)

F	D
fixed handle	revolving handle

DIN 469

Description	l	s H11	e min.	d1 H7	d2	h1	h2	h3 ≈	h4 ≈ Type D	h4 ≈ Type F	Ø Handle	⚖
DIN 469-63-B6-*	63	-	13.1	B 6	20	20	11	15	54.5	50	16	125
DIN 469-63-V10-*	63	V 10	13.1	-	20	20	11	15	54.5	50	16	110
DIN 469-80-B8-*	80	-	13.1	B 8	24	24	13	18	61	56	18	203
DIN 469-80-V10-*	80	V 10	13.1	-	24	24	13	18	61	56	18	179
DIN 469-80-V12-*	80	V 12	13.1	-	24	24	13	18	61	56	18	170
DIN 469-100-B10-*	100	-	16.1	B 10	28	28	13	21	67	64	20	288
DIN 469-100-V12-*	100	V 12	16.1	-	28	28	13	21	67	64	20	271
DIN 469-100-V14-*	100	V 14	16.1	-	28	28	13	21	67	64	20	264
DIN 469-125-B10-*	125	-	18.1	B 10	34	34	14	26	76	72	22	458
DIN 469-125-V14-*	125	V 14	18.1	-	34	34	14	26	76	72	22	434
DIN 469-125-V17-*	125	V 17	18.1	-	34	34	14	26	76	72	22	414
DIN 469-160-B14-*	160	-	22.2	B 14	38	38	14	29	83	80	25	677
DIN 469-160-V17-*	160	V 17	22.2	-	38	38	14	29	83	80	25	642
DIN 469-160-V19-*	160	V 19	22.2	-	38	38	14	29	83	80	25	604
DIN 469-200-B17-*	200	-	25.2	B 17	44	44	21	34	96.5	90	28	1021
DIN 469-200-V19-*	200	V 19	25.2	-	44	44	21	34	96.5	90	28	998
DIN 469-200-V22-*	200	V 22	25.2	-	44	44	21	34	96.5	90	28	970
DIN 469-250-B17-*	250	-	28.2	B 17	48	48	21	36	105.5	100	32	1412
DIN 469-250-V22-*	250	V 22	28.2	-	48	48	21	36	105.5	100	32	1332
DIN 469-250-V24-*	250	V 24	28.2	-	48	48	21	36	105.5	100	32	1281

Weight type F

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GN 558

Indexing cranked handles

SPECIFICATION

Bores

- Bore **B**: without keyway
- Bore **K**: with keyway

Body
Cast iron (GGG)

- deburred and shot-blasted
- hub machined

Handle
Steel, blackened

Indexing pin
Steel, hardened

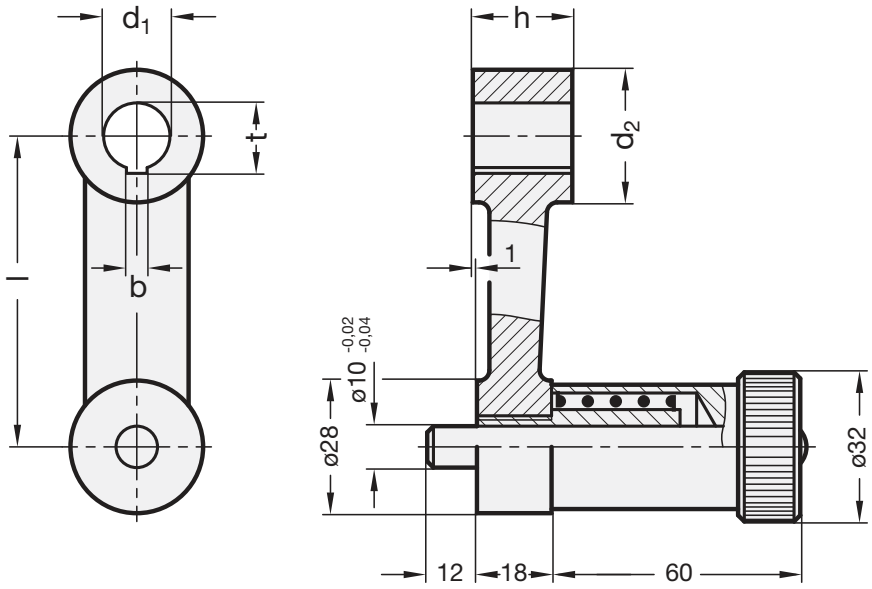
INFORMATION

Indexing cranked handles GN 558 are for positioning mechanisms. Standard machine elements for positioning of spindles:

- Indexing mechanisms GN 200 (see page 622)
- Indexing levers GN 215 (see page 634)
- Adjustable knobs GN 700 (see page 624)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Keyway P9 DIN 6885 (see page A16)



GN 558

Description	l	d1 H7	d2	h	bP9	t	⚖
GN 558-75-B16	75	B 16	32	24	-	-	544
GN 558-75-K16	75	K 16	32	24	5	17.3	540
GN 558-90-B18	90	B 18	34	26	-	-	588
GN 558-90-K18	90	K 18	34	26	6	19.7	583
GN 558-110-B20	110	B 20	36	30	-	-	684
GN 558-110-K20	110	K 20	36	30	6	21.7	680
GN 558-135-B22	135	B 22	42	32	-	-	823
GN 558-135-K22	135	K 22	42	32	6	23.7	818
GN 558-165-B24	165	B 24	44	36	-	-	994
GN 558-165-K24	165	K 24	44	36	8	25.7	988

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GN 112.1

Control handles

Zinc die casting

SPECIFICATION

Body
Zinc die casting
plastic coated
black, textured finish

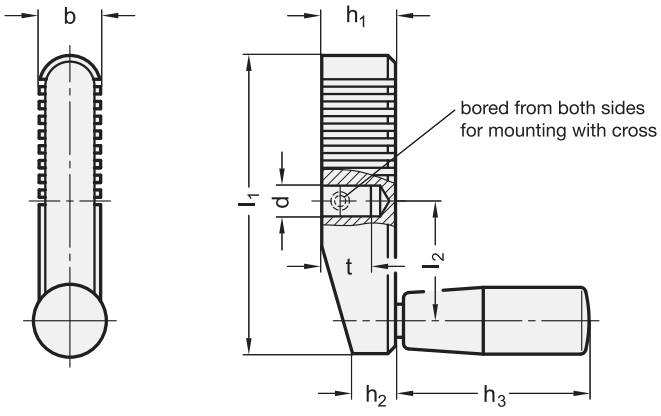
Cylindrical Revolving handles GN 598 (see page 573)
Plastic, Technopolymer
black, matt finish

INFORMATION

Control handles GN 112.1 allow fine adjustment.
They are connected to a shaft by means of a cross pin. To simplify the installation threre is a centred drilling on both sides.

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)



GN 112.1

Description	l1	d H7	b	h1	h2	h3 ≈	l2	t min.	Ø Handle	⚖
GN 112.1-70-S8	70	S 8	17	19	11.5	42.5	26.5	12	18	125
GN 112.1-80-S8	80	S 8	18	21	12.5	52.5	31	12	21	170
GN 112.1-90-S10	90	S 10	19	23	13.5	52.5	35.5	15	21	251
GN 112.1-100-S10	100	S 10	20	25	14	67.5	40	17	23	320
GN 112.1-100-S12	100	S 12	20	25	14	67.5	40	17	23	295

GN 10

Tri-ball handles

Steel

SPECIFICATION

Type
- Type **F**: with fixed handle

Steel

- turned
- zinc plated, blue passivated

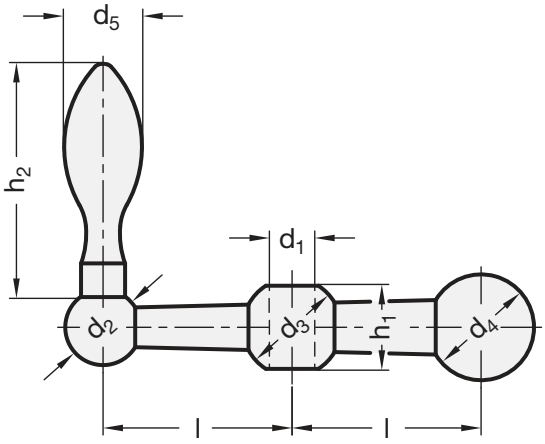
Fixed handles DIN 39 (see page 565)
Steel zinc plated, blue passivated

INFORMATION

Tri-ball handles GN 10 allow fine adjustment.
An alternative in modern design are control handles GN 112.1 (see page 203)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)



GN 10

Description	No.	d1 H7	d2	d3	d4	d5	h1	h2 ≈	l	⚖
GN 10-100-B7-F	100	B 7	13	16	18	10	13	31	25	60
GN 10-101-B8-F	101	B 8	15	19	20	13	17	40	28	102
GN 10-102-B8-F	102	B 8	16	20	22	14	17	45	34	136
GN 10-103-B10-F	103	B 10	18	23	25	16	19.5	50	41	194
GN 10-104-B12-F	104	B 12	20	26	28	18	21.5	56	50	283

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Balanced crank handles

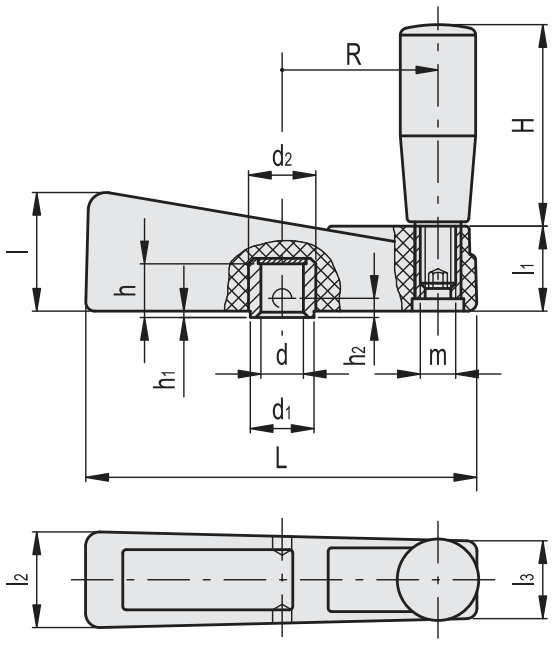
Duroplast

MATERIAL
Reinforced phenolic based (PF) Duroplast. Polyamide based (PA) technopolymer for ME.95, black colour, glossy finish. Balancing by means of an incorporated counterweight

FRONT PLATE
Matte anodised aluminium (ELESA original design).

STANDARD EXECUTION
Black-oxide steel boss, H7 reamed hole. Reamed hole provided with centres already drilled for pinning to shaft. Use pins with smaller diameter than the one of the already drilled hole to avoid local stress. Revolving handle I.301+x (see page 574) in Duroplast.

ELESA Original design



Code	Description	dH7	L	d1	d2	l	l1	l2	l3	h	h1	h2	H	m	R	⚖
38001	ME.65	8	65	13	14	23	18	22	19	13	1.5	6.5	40	M6	23	93
38101	ME.80	10	80	14	15	26	20	24	20	16	1.5	8	40	M6	30	102
38201	ME.95	10	94	14	15	29	22	26	22	19	1.5	8	50	M8	36	133
38301	ME.110	12	110	18	19	34	24	28	22	17.5	1.5	9	65	M10	44	260
38401	ME.140	12	140	18	19	37	26	30	24	17.5	1.5	9	80	M10	57	335

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Balanced crank handle

Technopolymer

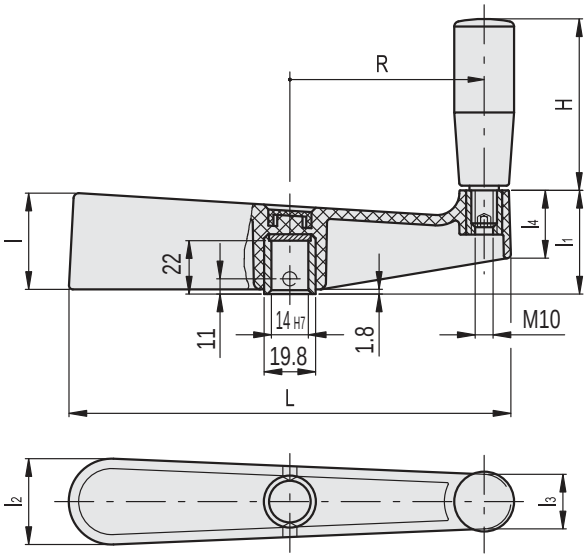
MATERIAL
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour matte finish. Balancing by means of an incorporated counterweight.

CENTRE CLOSING CAP
Technopolymer, black colour. On request and for sufficient quantities it can be supplied in other colours and customised with marks or words.

STANDARD EXECUTION
Black-oxide steel boss, H7 reamed hole.
Reamed hole provided with centres already drilled for pinning to shaft.
Revolving handle I.601+x (see page 575) in technopolymer.

FEATURES
Its surface with matte finish allows a sensible grip during operation, even in case of short approach controls. The revolving handle makes high-speed rotation easier.

ELESA Original design



Code	Description	dH7	L	l	l1	l2	l3	l4	H	R	⚖
38901	METP.170	14	170	37	39	33	21	25	65	74	275

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DESIGNED
FOR ENGINEERING

3 Clamping levers

Adjustable handles

Lever handles

Adjustable handles

Technopolymer

LEVER BODY
Glass-fibre reinforced polyamide based (PA) technopolymer, grey-black colour, matte finish.

PUSH BUTTON
Technopolymer in Ergostyle colours, glossy finish.

STANDARD EXECUTIONS
Glass-fibre reinforced technopolymer clamping element with retaining pin, black colour, with knurling on the protruding part to make initial tightening easier. AISI 302 stainless steel return spring.
- **ERX -B:** brass boss, threaded blind hole.
- **ERX-SST:** AISI 303 stainless steel boss, threaded blind hole.
- **ERX-p:** zinc-plated steel threaded stud, chamfered flat end UNI 947 : ISO 4753 (see Technical Data on page A11).
- **ERX-SST-p:** AISI 303 stainless steel threaded stud, chamfered flat end UNI 947 : ISO 4753 (see Technical Data on page A11).

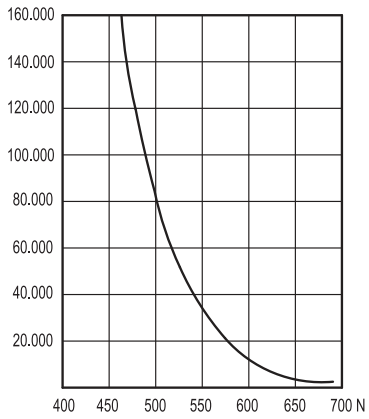
FEATURES AND APPLICATIONS
Particularly suitable when the lever turning angle is limited owing to lack of space.
Compared to other types of adjustable handles with metal retaining screw this solution offers:
- absolute electric insulation for the operator
- no visible steel parts subject to rust
- more comfortable lever release.

STRESS RESISTANCE
Adjustable handles are generally used for repetitive clamping operations sometimes with very high-frequency.
Therefore, the stress resistance (i.e. the resistance to repeated tightening cycles) of the handle unit is particularly important and, especially, the strength of the toothed element which transmits the tightening force from the handle to the threaded element (boss or stud).
In fact, the results of several laboratory tests, perfomed with a special instrument that simulates the most severe use conditions, have shown that e.g. ERX.78 adjustable handle can withstand without yielding more than 100,000 tightening cycles, under the action of a force of 490 N (see graphic).
The special glass-fibre reinforced technopolymer enables the ELESA adjustable handles to guarantee stress resistance values which are much higher than the ones generated under normal working conditions.

OTHER EXECUTIONS AVAILABLE
Lever body in orange (C2) with black push button (C1).
Example: code 233061-C2-C1 description ERX.30-C2-B-M3-C1.

INSTRUCTIONS OF USE
For clamping, lift the lever to disengage the clamping device teeth and bring it back to start position. By releasing the lever, the return spring automatically engages the teeth.

NUMBER OF TIGHTENINGS



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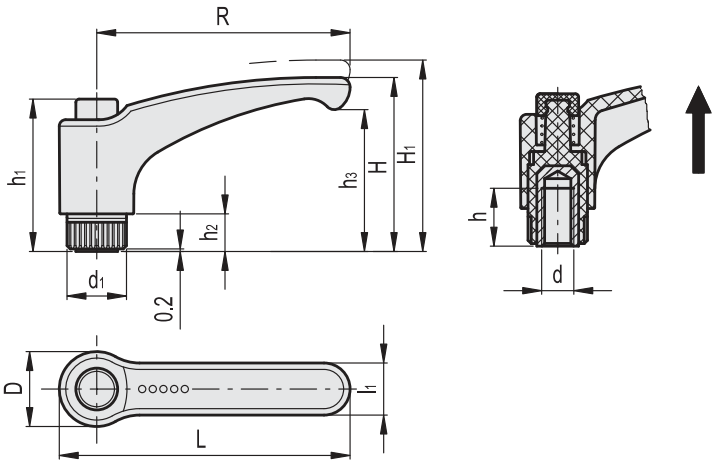
ERX-B
ERX-SST



*Complete with colour index, example: 233061-C2 ERX.30 B-M3-C2

C1	C2	C3	C4	C5	C6
RAL7021	RAL2004	RAL7035	RAL1021	RAL5024	RAL3000

ERX-B

Code	Description	R	d6H	L	D	H	H1	h	h1	h2	h3	d1	l1	Teeth no.	⚖
233061-*	ERX.30 B-M3-*	30	M3	37.5	15.5	30	33.5	10	29.5	6	23	12	9	18	8
233066-*	ERX.30 B-M4-*	30	M4	37.5	15.5	30	33.5	10	29.5	6	23	12	9	18	8
233071-*	ERX.30 B-M5-*	30	M5	37.5	15.5	30	33.5	10	29.5	6	23	12	9	18	7
233076-*	ERX.30 B-M6-*	30	M6	37.5	15.5	30	33.5	10	29.5	6	23	12	9	18	6
233101-*	ERX.44 B-M5-*	44	M5	52	15.5	32.5	36	10	29.5	6	25	12	11	18	10
233106-*	ERX.44 B-M6-*	44	M6	52	15.5	32.5	36	10	29.5	6	25	12	11	18	10
233131-*	ERX.63 B-M6-*	63	M6	73.5	19	43	47	16	37.5	8	34.5	15	13.5	20	21
233136-*	ERX.63 B-M8-*	63	M8	73.5	19	43	47	13	37.5	8	34.5	15	13.5	20	20
233141-*	ERX.63 B-M10-*	63	M10	73.5	19	43	47	13	37.5	8	34.5	15	13.5	20	19
233151-*	ERX.78 B-M8-*	78	M8	90.5	24.5	54	58	20	47	12	44	19	16	24	46
233156-*	ERX.78 B-M10-*	78	M10	90.5	24.5	54	58	18	47	12	44	19	16	24	44
233161-*	ERX.78 B-M12-*	78	M12	90.5	24.5	54	58	17	47	12	44	19	16	24	43
233171-*	ERX.95 B-M10-*	95	M10	109	26.5	64.5	69	20	54.5	13	53	21.5	18	26	52
233176-*	ERX.95 B-M12-*	95	M12	109	26.5	64.5	69	20	54.5	13	53	21.5	18	26	51
233181-*	ERX.95 B-M14-*	95	M14	109	26.5	64.5	69	20	54.5	13	53	21.5	18	26	50
233211-*	ERX.108 B-M12-*	108	M12	123	30	65.5	70	20	54.5	11	52.5	25	20	28	60
233216-*	ERX.108 B-M14-*	108	M14	123	30	65.5	70	20	54.5	11	52.5	25	20	28	59
233221-*	ERX.108 B-M16-*	108	M16	123	30	65.5	70	22	54.5	11	52.5	25	20	28	58

ERX-SST **STAINLESS STEEL**

Code	Description	R	d6H	L	D	H	H1	h	h1	h2	h3	d1	l1	Teeth no.	⚖
235071-*	ERX.30 SST-M5-*	30	M5	37.5	15.5	30	33.5	6	29.5	6	23	12	9	18	8
235076-*	ERX.30 SST-M6-*	30	M6	37.5	15.5	30	33.5	10	29.5	6	23	12	9	18	6
235101-*	ERX.44 SST-M5-*	44	M5	52	15.5	32.5	36	6	29.5	6	25	12	11	18	11
235106-*	ERX.44 SST-M6-*	44	M6	52	15.5	32.5	36	10	29.5	6	25	12	11	18	10
235131-*	ERX.63 SST-M6-*	63	M6	73.5	19	43	47	12	37.5	8	34.5	15	13.5	20	22
235136-*	ERX.63 SST-M8-*	63	M8	73.5	19	43	47	13	37.5	8	34.5	15	13.5	20	20
235151-*	ERX.78 SST-M8-*	78	M8	90.5	24.5	54	58	13	47	12	44	19	16	24	46
235156-*	ERX.78 SST-M10-*	78	M10	90.5	24.5	54	58	17	47	12	44	19	16	24	44
235176-*	ERX.95 SST-M12-*	95	M12	109	26.5	64.5	69	20	54.5	13	53	21.5	18	26	52
235191-*	ERX.108 SST-M12-*	108	M12	123	30	65.5	70	20	54.5	11	52.5	25	20	28	60

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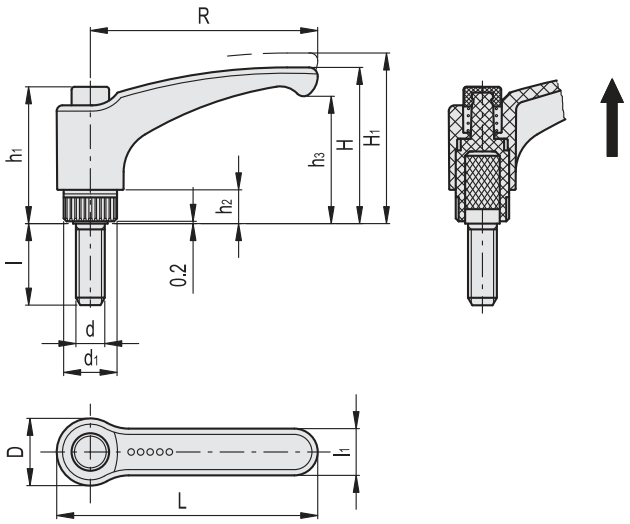
ERX-p
ERX-SST-p



* Complete with colour index, example: 234001-C2 ERX.30 p-M5x10-C2

C1	C2	C3	C4	C5	C6
RAL7021	RAL2004	RAL7035	RAL1021	RAL5024	RAL3000

ERX-p

Code	Description	R	d6g	L	D	H	H1	h1	h2	h3	d1	l	l1	Teeth no.	⚖
234001-*	ERX.30 p-M5x10-*	30	M5	37.5	15.5	30	33.5	29.5	6	23	12	10	9	18	6
234006-*	ERX.30 p-M5x16-*	30	M5	37.5	15.5	30	33.5	29.5	6	23	12	16	9	18	6
234011-*	ERX.30 p-M5x20-*	30	M5	37.5	15.5	30	33.5	29.5	6	23	12	20	9	18	7
234016-*	ERX.30 p-M6x10-*	30	M6	37.5	15.5	30	33.5	29.5	6	23	12	10	9	18	8
234021-*	ERX.30 p-M6x16-*	30	M6	37.5	15.5	30	33.5	29.5	6	23	12	16	9	18	9
234026-*	ERX.30 p-M6x20-*	30	M6	37.5	15.5	30	33.5	29.5	6	23	12	20	9	18	10
234031-*	ERX.30 p-M6x25-*	30	M6	37.5	15.5	30	33.5	29.5	6	23	12	25	9	18	11
234036-*	ERX.30 p-M6x30-*	30	M6	37.5	15.5	30	33.5	29.5	6	23	12	30	9	18	12
234046-*	ERX.30 p-M6x40-*	30	M6	37.5	15.5	30	33.5	29.5	6	23	12	40	9	18	14
234101-*	ERX.44 p-M5x10-*	44	M5	52	15.5	32.5	36	29.5	6	25	12	10	11	18	11
234106-*	ERX.44 p-M5x16-*	44	M5	52	15.5	32.5	36	29.5	6	25	12	16	11	18	12
234111-*	ERX.44 p-M5x20-*	44	M5	52	15.5	32.5	36	29.5	6	25	12	20	11	18	13
234116-*	ERX.44 p-M6x10-*	44	M6	52	15.5	32.5	36	29.5	6	25	12	10	11	18	13
234121-*	ERX.44 p-M6x16-*	44	M6	52	15.5	32.5	36	29.5	6	25	12	16	11	18	14
234126-*	ERX.44 p-M6x20-*	44	M6	52	15.5	32.5	36	29.5	6	25	12	20	11	18	15
234131-*	ERX.44 p-M6x25-*	44	M6	52	15.5	32.5	36	29.5	6	25	12	25	11	18	16
234136-*	ERX.44 p-M6x30-*	44	M6	52	15.5	32.5	36	29.5	6	25	12	30	11	18	17
234146-*	ERX.44 p-M6x40-*	44	M6	52	15.5	32.5	36	29.5	6	25	12	40	11	18	19
234151-*	ERX.44 p-M6x45-*	44	M6	52	15.5	32.5	36	29.5	6	25	12	45	11	18	20
234159-*	ERX.44 p-M8x16-*	44	M8	52	15.5	32.5	36	29.5	6	25	12	16	11	18	17
234161-*	ERX.44 p-M8x20-*	44	M8	52	15.5	32.5	36	29.5	6	25	12	20	11	18	18
234163-*	ERX.44 p-M8x25-*	44	M8	52	15.5	32.5	36	29.5	6	25	12	25	11	18	19
234301-*	ERX.63 p-M6x10-*	63	M6	73.5	19	43	47	37.5	8	34.5	15	10	13.5	20	28
234306-*	ERX.63 p-M6x16-*	63	M6	73.5	19	43	47	37.5	8	34.5	15	16	13.5	20	29
234311-*	ERX.63 p-M6x20-*	63	M6	73.5	19	43	47	37.5	8	34.5	15	20	13.5	20	30
234316-*	ERX.63 p-M6x25-*	63	M6	73.5	19	43	47	37.5	8	34.5	15	25	13.5	20	31
234321-*	ERX.63 p-M6x30-*	63	M6	73.5	19	43	47	37.5	8	34.5	15	30	13.5	20	32
234323-*	ERX.63 p-M6x35-*	63	M6	73.5	19	43	47	37.5	8	34.5	15	35	13.5	20	32
234326-*	ERX.63 p-M6x40-*	63	M6	73.5	19	43	47	37.5	8	34.5	15	40	13.5	20	32
234329-*	ERX.63 p-M6x50-*	63	M6	73.5	19	43	47	37.5	8	34.5	15	50	13.5	20	32
234333-*	ERX.63 p-M8x16-*	63	M8	73.5	19	43	47	37.5	8	34.5	15	16	13.5	20	32
234336-*	ERX.63 p-M8x20-*	63	M8	73.5	19	43	47	37.5	8	34.5	15	20	13.5	20	32
234341-*	ERX.63 p-M8x25-*	63	M8	73.5	19	43	47	37.5	8	34.5	15	25	13.5	20	34
234346-*	ERX.63 p-M8x30-*	63	M8	73.5	19	43	47	37.5	8	34.5	15	30	13.5	20	36
234351-*	ERX.63 p-M8x35-*	63	M8	73.5	19	43	47	37.5	8	34.5	15	35	13.5	20	38
234356-*	ERX.63 p-M8x40-*	63	M8	73.5	19	43	47	37.5	8	34.5	15	40	13.5	20	40
234361-*	ERX.63 p-M8x45-*	63	M8	73.5	19	43	47	37.5	8	34.5	15	45	13.5	20	41
234366-*	ERX.63 p-M8x50-*	63	M8	73.5	19	43	47	37.5	8	34.5	15	50	13.5	20	43
234371-*	ERX.63 p-M8x60-*	63	M8	73.5	19	43	47	37.5	8	34.5	15	60	13.5	20	46
234376-*	ERX.63 p-M8x70-*	63	M8	73.5	19	43	47	37.5	8	34.5	15	70	13.5	20	50
234381-*	ERX.63 p-M10x20-*	63	M10	73.5	19	43	47	37.5	8	34.5	15	20	13.5	20	40
234382-*	ERX.63 p-M10x30-*	63	M10	73.5	19	43	47	37.5	8	34.5	15	30	13.5	20	43

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* Complete with colour index, example: 234001-C2 ERX.30 p-M5x10-C2

C1 RAL7021 | C2 RAL2004 | C3 RAL7035 | C4 RAL1021 | C5 RAL5024 | C6 RAL3000

ERX-p

Code	Description	R	d6g	L	D	H	H1	h1	h2	h3	d1	l	l1	Teeth no.	⚖
234498-*	ERX.78 p-M8x20-*	78	M8	90.5	24.5	54	58	47	12	44	19	20	16	24	42
234501-*	ERX.78 p-M8x25-*	78	M8	90.5	24.5	54	58	47	12	44	19	25	16	24	43
234503-*	ERX.78 p-M8x30-*	78	M8	90.5	24.5	54	58	47	12	44	19	30	16	24	44
234506-*	ERX.78 p-M8x40-*	78	M8	90.5	24.5	54	58	47	12	44	19	40	16	24	48
234507-*	ERX.78 p-M8x45-*	78	M8	90.5	24.5	54	58	47	12	44	19	45	16	24	50
234509-*	ERX.78 p-M8x50-*	78	M8	90.5	24.5	54	58	47	12	44	19	50	16	24	52
234511-*	ERX.78 p-M8x55-*	78	M8	90.5	24.5	54	58	47	12	44	19	55	16	24	55
234513-*	ERX.78 p-M8x60-*	78	M8	90.5	24.5	54	58	47	12	44	19	60	16	24	57
234515-*	ERX.78 p-M8x70-*	78	M8	90.5	24.5	54	58	47	12	44	19	70	16	24	60
234516-*	ERX.78 p-M10x20-*	78	M10	90.5	24.5	54	58	47	12	44	19	20	16	24	58
234521-*	ERX.78 p-M10x25-*	78	M10	90.5	24.5	54	58	47	12	44	19	25	16	24	61
234526-*	ERX.78 p-M10x30-*	78	M10	90.5	24.5	54	58	47	12	44	19	30	16	24	64
234531-*	ERX.78 p-M10x35-*	78	M10	90.5	24.5	54	58	47	12	44	19	35	16	24	67
234536-*	ERX.78 p-M10x40-*	78	M10	90.5	24.5	54	58	47	12	44	19	40	16	24	70
234541-*	ERX.78 p-M10x50-*	78	M10	90.5	24.5	54	58	47	12	44	19	50	16	24	76
234546-*	ERX.78 p-M10x60-*	78	M10	90.5	24.5	54	58	47	12	44	19	60	16	24	82
234551-*	ERX.78 p-M10x70-*	78	M10	90.5	24.5	54	58	47	12	44	19	70	16	24	88
234561-*	ERX.78 p-M12x20-*	78	M12	90.5	24.5	54	58	47	12	44	19	20	16	24	70
234566-*	ERX.78 p-M12x25-*	78	M12	90.5	24.5	54	58	47	12	44	19	25	16	24	71
234571-*	ERX.78 p-M12x30-*	78	M12	90.5	24.5	54	58	47	12	44	19	30	16	24	74
234573-*	ERX.78 p-M12x35-*	78	M12	90.5	24.5	54	58	47	12	44	19	35	16	24	75
234576-*	ERX.78 p-M12x40-*	78	M12	90.5	24.5	54	58	47	12	44	19	40	16	24	76
234581-*	ERX.78 p-M12x45-*	78	M12	90.5	24.5	54	58	47	12	44	19	45	16	24	77
234586-*	ERX.78 p-M12x50-*	78	M12	90.5	24.5	54	58	47	12	44	19	50	16	24	78
234591-*	ERX.78 p-M12x60-*	78	M12	90.5	24.5	54	58	47	12	44	19	60	16	24	81
234593-*	ERX.78 p-M12x70-*	78	M12	90.5	24.5	54	58	47	12	44	19	70	16	24	84
234596-*	ERX.78 p-M12x80-*	78	M12	90.5	24.5	54	58	47	12	44	19	80	16	24	86
234726-*	ERX.95 p-M12x30-*	95	M12	109	26.5	64.5	69	54.5	13	53	21.5	30	18	26	86
234741-*	ERX.95 p-M12x50-*	95	M12	109	26.5	64.5	69	54.5	13	53	21.5	50	18	26	90
234751-*	ERX.95 p-M12x70-*	95	M12	109	26.5	64.5	69	54.5	13	53	21.5	70	18	26	94
234901-*	ERX.95 p-M16x30-*	95	M16	109	26.5	64.5	69	54.5	13	53	21.5	30	18	26	104
234911-*	ERX.95 p-M16x50-*	95	M16	109	26.5	64.5	69	54.5	13	53	21.5	50	18	26	110
234921-*	ERX.95 p-M16x70-*	95	M16	109	26.5	64.5	69	54.5	13	53	21.5	70	18	26	116
235001-*	ERX.108 p-M12x30-*	108	M12	123	30	65.5	70	54.5	11	52.5	25	30	20	28	70
235006-*	ERX.108 p-M12x50-*	108	M12	123	30	65.5	70	54.5	11	52.5	25	50	20	28	75
235011-*	ERX.108 p-M12x70-*	108	M12	123	30	65.5	70	54.5	11	52.5	25	70	20	28	80
235016-*	ERX.108 p-M14x30-*	108	M14	123	30	65.5	70	54.5	11	52.5	25	30	20	28	86
235021-*	ERX.108 p-M14x50-*	108	M14	123	30	65.5	70	54.5	11	52.5	25	50	20	28	90
235026-*	ERX.108 p-M14x70-*	108	M14	123	30	65.5	70	54.5	11	52.5	25	70	20	28	95
235036-*	ERX.108 p-M16x30-*	108	M16	123	30	65.5	70	54.5	11	52.5	25	30	20	28	100
235041-*	ERX.108 p-M16x50-*	108	M16	123	30	65.5	70	54.5	11	52.5	25	50	20	28	105
235046-*	ERX.108 p-M16x70-*	108	M16	123	30	65.5	70	54.5	11	52.5	25	70	20	28	110

ERX-SST-p

STAINLESS STEEL

Code	Description	R	d6g	L	D	H	H1	h1	h2	h3	d1	l	l1	Teeth no.	⚖
235061-*	ERX.30-SST-p M5x10-*	30	M5	37.5	15.5	30	33.5	29.5	6	23	12	10	9	18	6
235066-*	ERX.30-SST-p M5x16-*	30	M5	37.5	15.5	30	33.5	29.5	6	23	12	16	9	18	7
235196-*	ERX.30-SST-p M6x10-*	30	M6	37.5	15.5	30	33.5	29.5	6	23	12	10	9	18	8
235201-*	ERX.30 SST-p-M6x16-*	30	M6	37.5	15.5	30	33.5	29.5	6	23	12	16	9	18	9
235203-*	ERX.30 SST-p-M6x20-*	30	M6	37.5	15.5	30	33.5	29.5	6	23	12	20	9	18	10
235205-*	ERX.30 SST-p-M6x25-*	30	M6	37.5	15.5	30	33.5	29.5	6	23	12	25	9	18	11
235207-*	ERX.30 SST-p-M6x30-*	30	M6	37.5	15.5	30	33.5	29.5	6	23	12	30	9	18	12
235209-*	ERX.44 SST-p-M5x10-*	44	M5	52	15.5	32.5	36	29.5	6	25	12	10	11	18	10
235211-*	ERX.44 SST-p-M5x16-*	44	M5	52	15.5	32.5	36	29.5	6	25	12	16	11	18	12
235216-*	ERX.44 SST-p-M6x10-*	44	M6	52	15.5	32.5	36	29.5	6	25	12	10	11	18	13
235221-*	ERX.44 SST-p-M6x16-*	44	M6	52	15.5	32.5	36	29.5	6	25	12	16	11	18	14
235226-*	ERX.44 SST-p-M6x20-*	44	M6	52	15.5	32.5	36	29.5	6	25	12	20	11	18	16
235231-*	ERX.44 SST-p-M6x25-*	44	M6	52	15.5	32.5	36	29.5	6	25	12	25	11	18	17
235236-*	ERX.44 SST-p-M6x30-*	44	M6	52	15.5	32.5	36	29.5	6	25	12	30	11	18	18

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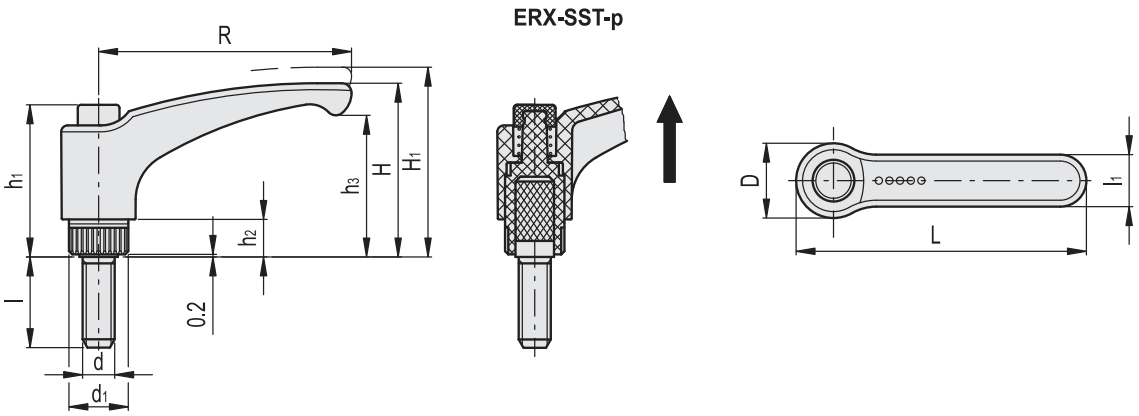

*Complete with colour index, example: 235341-C2 ERX.63 SST-p-M6x10-C2

C1	C2	C3	C4	C5	C6
RAL7021	RAL2004	RAL7035	RAL1021	RAL5024	RAL3000

ERX-SST-p **STAINLESS STEEL**

Code	Description	R	d_{6g}	L	D	H	H_1	h_1	h_2	h_3	d_1	l	l_1	Teeth no.	⚖
235341-*	ERX.63 SST-p-M6x10-*	63	M6	73.5	19	43	47	37.5	8	34.5	15	10	13.5	20	30
235351-*	ERX.63 SST-p-M6x20-*	63	M6	73.5	19	43	47	37.5	8	34.5	15	20	13.5	20	31
235421-*	ERX.63 SST-p-M6x30-*	63	M6	73.5	19	43	47	37.5	8	34.5	15	30	13.5	20	32
235426-*	ERX.63 SST-p-M6x40-*	63	M6	73.5	19	43	47	37.5	8	34.5	15	40	13.5	20	33
235431-*	ERX.63 SST-p-M8x16-*	63	M8	73.5	19	43	47	37.5	8	34.5	15	16	13.5	20	31
235436-*	ERX.63 SST-p-M8x20-*	63	M8	73.5	19	43	47	37.5	8	34.5	15	20	13.5	20	32
235441-*	ERX.63 SST-p-M8x25-*	63	M8	73.5	19	43	47	37.5	8	34.5	15	25	13.5	20	33
235446-*	ERX.63 SST-p-M8x30-*	63	M8	73.5	19	43	47	37.5	8	34.5	15	30	13.5	20	37
235451-*	ERX.63 SST-p-M8x35-*	63	M8	73.5	19	43	47	37.5	8	34.5	15	35	13.5	20	38
235456-*	ERX.63 SST-p-M8x40-*	63	M8	73.5	19	43	47	37.5	8	34.5	15	40	13.5	20	41
235461-*	ERX.63 SST-p-M8x45-*	63	M8	73.5	19	43	47	37.5	8	34.5	15	45	13.5	20	42
235466-*	ERX.63 SST-p-M8x50-*	63	M8	73.5	19	43	47	37.5	8	34.5	15	50	13.5	20	44
235471-*	ERX.63 SST-p-M8x60-*	63	M8	73.5	19	43	47	37.5	8	34.5	15	60	13.5	20	47
235476-*	ERX.63 SST-p-M8x70-*	63	M8	73.5	19	43	47	37.5	8	34.5	15	70	13.5	20	52
235601-*	ERX.78 SST-p-M8x20-*	78	M8	90.5	24.5	54	58	47	12	44	19	20	16	24	43
235603-*	ERX.78 SST-p-M8x25-*	78	M8	90.5	24.5	54	58	47	12	44	19	25	16	24	44
235605-*	ERX.78 SST-p-M8x30-*	78	M8	90.5	24.5	54	58	47	12	44	19	30	16	24	45
235607-*	ERX.78 SST-p-M8x40-*	78	M8	90.5	24.5	54	58	47	12	44	19	40	16	24	50
235609-*	ERX.78 SST-p-M8x45-*	78	M8	90.5	24.5	54	58	47	12	44	19	45	16	24	52
235611-*	ERX.78 SST-p-M8x50-*	78	M8	90.5	24.5	54	58	47	12	44	19	50	16	24	54
235617-*	ERX.78 SST-p-M8x70-*	78	M8	90.5	24.5	54	58	47	12	44	19	70	16	24	62
235716-*	ERX.78 SST-p-M10x20-*	78	M10	90.5	24.5	54	58	47	12	44	19	20	16	24	58
235726-*	ERX.78 SST-p-M10x30-*	78	M10	90.5	24.5	54	58	47	12	44	19	30	16	24	64
235731-*	ERX.78 SST-p-M10x35-*	78	M10	90.5	24.5	54	58	47	12	44	19	35	16	24	66
235736-*	ERX.78 SST-p-M10x40-*	78	M10	90.5	24.5	54	58	47	12	44	19	40	16	24	67
235741-*	ERX.78 SST-p-M10x50-*	78	M10	90.5	24.5	54	58	47	12	44	19	50	16	24	68
235746-*	ERX.78 SST-p-M10x60-*	78	M10	90.5	24.5	54	58	47	12	44	19	60	16	24	70
235771-*	ERX.78 SST-p-M12x30-*	78	M12	90.5	24.5	54	58	47	12	44	19	30	16	24	74
235773-*	ERX.78 SST-p-M12x35-*	78	M12	90.5	24.5	54	58	47	12	44	19	35	16	24	76
235781-*	ERX.78 SST-p-M12x40-*	78	M12	90.5	24.5	54	58	47	12	44	19	40	16	24	77
235786-*	ERX.78 SST-p-M12x50-*	78	M12	90.5	24.5	54	58	47	12	44	19	50	16	24	79
235893-*	ERX.78 SST-p-M12x70-*	78	M12	90.5	24.5	54	58	47	12	44	19	70	16	24	82
235901-*	ERX.95 SST-p-M12x30-*	95	M12	109	26.5	64.5	69	54.5	13	53	21.5	30	18	26	87
235911-*	ERX.95 SST-p-M12x40-*	95	M12	109	26.5	64.5	69	54.5	13	53	21.5	40	18	26	90
235921-*	ERX.95 SST-p-M12x50-*	95	M12	109	26.5	64.5	69	54.5	13	53	21.5	50	18	26	93
235941-*	ERX.95 SST-p-M12x70-*	95	M12	109	26.5	64.5	69	54.5	13	53	21.5	70	18	26	98
236001-*	ERX.108 SST-p-M12x30-*	108	M12	123	30	65.5	70	54.5	11	52.5	25	30	20	28	70
236003-*	ERX.108 SST-p-M12x40-*	108	M12	123	30	65.5	70	54.5	11	52.5	25	40	20	28	73
236006-*	ERX.108 SST-p-M12x50-*	108	M12	123	30	65.5	70	54.5	11	52.5	25	50	20	28	75
236011-*	ERX.108 SST-p-M12x70-*	108	M12	123	30	65.5	70	54.5	11	52.5	25	70	20	28	80

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Adjustable handles

Technopolymer chrome-plated

LEVER BODY
Glass-fibre reinforced polyamide based (PA) technopolymer, chrome-plated, semi-glossy finish.

PUSH BUTTON
Black technopolymer, glossy finish.

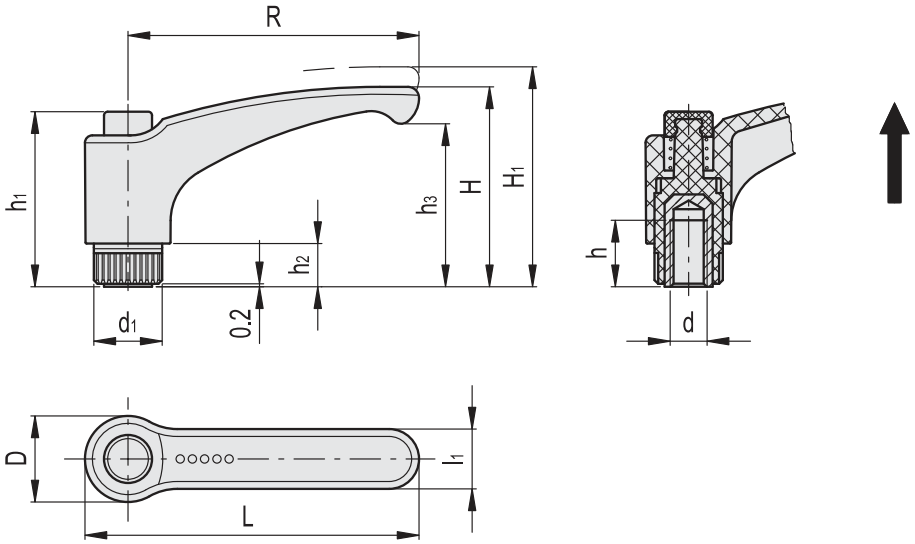
STANDARD EXECUTION
Glass-fibre reinforced technopolymer clamping element with retaining pin, black colour, with knurling on the protruding part to make initial tightening easier. AISI 302 stainless steel return spring. Brass boss, tapped blind hole.

FEATURES AND APPLICATIONS
Particularly suitable when the lever turning angle is limited owing to lack of space.
Compared to other types of adjustable handles with metal retaining screw this solution offers:
- no visible steel parts subject to rust
- more comfortable lever release.

CHEMICAL AGENTS RESISTANCE
The chrome-plated surface is resistant to wear, scrapes and shocks. In laboratory tests carried out at ambient temperature (23°C), the chrome-plated surface revealed to be resistant to: sea water, detergents, acetone, ethyl alcohol, formic acid, chlorine solutions.

SPECIAL EXECUTIONS ON REQUEST
Bosses with different threadings.

INSTRUCTIONS OF USE
For clamping, lift the lever to disengage the clamping device teeth and bring it back to start position. By releasing the lever, the return spring automatically engages the teeth.



Code	Description	R	d6H	L	D	H	H1	h	h1	h2	h3	d1	l1	Teeth no.	⚖
152301	ERX.44-CR-B-M6	44	M6	52	15.5	32.5	36	10	29.5	6	25	12	11	18	10
152311	ERX.63-CR-B-M8	63	M8	73.5	19	43	47	13	37.5	8	34.5	15	13.5	20	20
152321	ERX.78-CR-B-M10	78	M10	90.5	24.5	54	58	18	47	12	44	19	16	24	44
152341	ERX.95-CR-B-M12	95	M12	109	26.5	64.5	69	20	54.5	13	53	21.5	18	26	51

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Adjustable handles

Quick assembly, technopolymer

ERGOSTYLE®

LEVER BODY
Glass-fibre reinforced polyamide based (PA) technopolymer, grey-black colour, matte finish.

PUSH BUTTON
Technopolymer, RAL 2004 orange colour, glossy finish. On request and for sufficient quantities it can be supplied in one of the other Ergostyle colours.

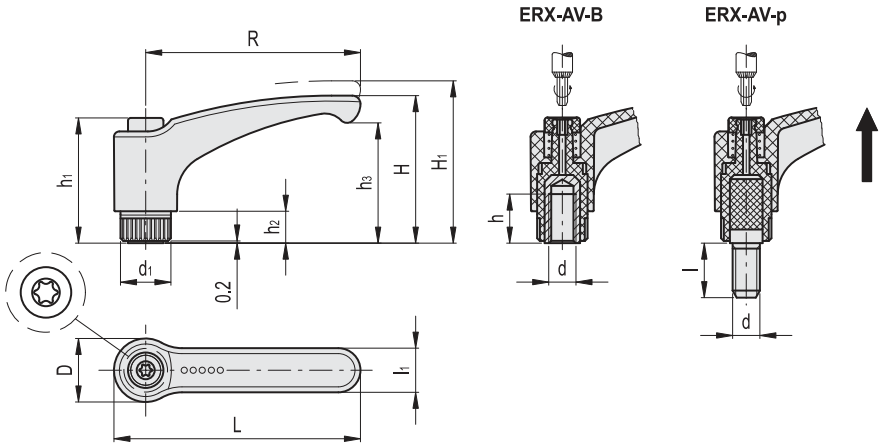
STANDARD EXECUTIONS
Glass-fibre reinforced technopolymer clamping element with retaining pin, black colour, with knurling on the protruding part to make initial tightening easier. AISI 302 stainless steel return spring.
For quick assembly (ELESA patent) six-lobe socket ISO 10664 to fit TORX® T15 tool (registered trademark of TEXTRON INC.).
- **ERX-AV-B:** brass boss, threaded blind hole.
- **ERX-AV-p:** zinc-plated steel threaded stud, chamfered flat end UNI 947 : ISO 4753 (see Technical Data on page A11).

FEATURES AND APPLICATIONS
Even if it has a plastic push button, ERX-AV adjustable handle offers the possibility of a quick initial screwing during assembly by means of electric or pneumatic screwdrivers with controlled tightening torque system.

STRESS RESISTANCE
See ERX. (on page 304).

SPECIAL EXECUTIONS ON REQUEST
Lever body in orange colour.
Bosses and studs with different threadings.

INSTRUCTIONS OF USE
For clamping, lift the lever to disengage the clamping device teeth and bring it back to start position. By releasing the lever, the return spring automatically engages the teeth.



ERX-AV-B

Code	Description	R	d6H	L	D	H	H1	h	h1	h2	h3	d1	l1	Teeth no.	⚖
233158-C2	ERX.78 AV B-M10-C2	78	M10	90.5	24.5	54	58	18	45	12	44	19	16	24	44
233163-C2	ERX.78 AV B-M12-C2	78	M12	90.5	24.5	54	58	17	45	12	44	19	16	24	43

ERX-AV-p

Code	Description	R	d6g	L	D	H	H1	h1	h2	h3	d1	l	l1	Teeth no.	⚖
234518-C2	ERX.78 AV p-M10x20-C2	78	M10	90.5	24.5	54	58	45	12	44	19	20	16	24	58
234528-C2	ERX.78 AV p-M10x30-C2	78	M10	90.5	24.5	54	58	45	12	44	19	30	16	24	64
234538-C2	ERX.78 AV p-M10x40-C2	78	M10	90.5	24.5	54	58	45	12	44	19	40	16	24	70
234543-C2	ERX.78 AV p-M10x50-C2	78	M10	90.5	24.5	54	58	45	12	44	19	50	16	24	76

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Safety adjustable handles

Push action, technopolymer

LEVER BODY

Glass-fibre reinforced polyamide based (PA) technopolymer, grey-black colour, matte finish. Red writing with "PUSH" tampoprinted on the lever body (avoid contact with solvents, alcohol or detergents containing alcohol).

STANDARD EXECUTIONS

Glass-fibre reinforced technopolymer clamping element, black colour, with knurling on the protruding part to make initial tightening easier. AISI 302 stainless steel return spring.

- **ERS-A:** black-oxide steel boss, threaded blind hole.
- **ERS-B:** brass boss, threaded blind hole.
- **ERS-p:** black-oxide steel threaded stud, chamfered flat end UNI 947 : ISO 4753 (see Technical Data on page A11).

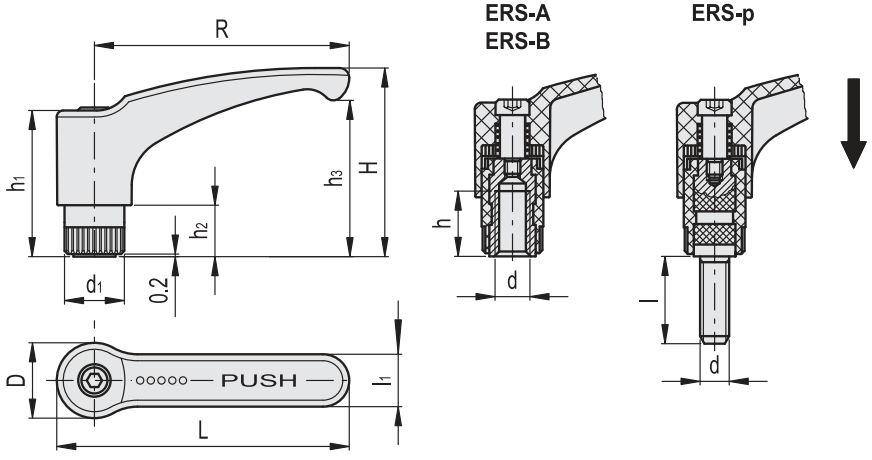
STRESS RESISTANCE

See ERX. (on page 304).

INSTRUCTIONS OF USE

For clamping, push the lever to engage the clamping device toothing and turn it. By releasing the lever, the return spring automatically disengages the toothing and the lever returns to its rest position.
In case of accidental shocks, the lever turns freely without affecting the clamping action enabling the operator to manoeuvre in safety.

ERGOSTYLE®



ERS-A
ERS-B

Code	Description	R	d6H	L	D	H	h	h1	h2	h3	d1	l1	Teeth no.	⚖
236902	ERS.44 A-M4	44	M4	52	15.5	36	10	29	9	28	12	11	18	14
236903	ERS.44 A-M5	44	M5	52	15.5	36	10	29	9	28	12	11	18	13
236904	ERS.44 A-M6	44	M6	52	15.5	36	10	29	9	28	12	11	18	12
236913	ERS.63 A-M6	63	M6	73.5	19	48	13	37	12	37	15	13.5	20	25
236914	ERS.63 A-M8	63	M8	73.5	19	48	13	37	12	37	15	13.5	20	24
236935	ERS.63 B-M8	63	M8	73.5	19	48	13	37	12	37	15	13.5	20	24

ERS-p

Code	Description	R	d6g	L	D	H	h1	h2	h3	d1	l	l1	Teeth no.	⚖
236972	ERS.44 p-M6x16	44	M6	52	15.5	36	29	9	28	12	16	11	18	18
236974	ERS.44 p-M6x25	44	M6	52	15.5	36	29	9	28	12	25	11	18	21
237003	ERS.63 p-M8x20	63	M8	73.5	19	48	37	12	37	15	20	13.5	20	38
237005	ERS.63 p-M8x30	63	M8	73.5	19	48	37	12	37	15	30	13.5	20	43

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Adjustable handles

Technopolymer, steel or stainless steel clamping element

LEVER BODY

Glass-fibre reinforced polyamide based (PA) technopolymer, grey-black colour, matte finish. Built-in zinc alloy toothed insert for coupling to the metal clamping element.

STANDARD EXECUTIONS

- **ERZ-A:** black-oxide steel clamping element with threaded hole and retaining screw. AISI 302 stainless steel return spring.
- **ERZ-SST:** AISI 303 stainless steel clamping element with threaded hole and retaining screw. AISI 302 stainless steel return spring.
- **ERZ-p:** black-oxide steel clamping element with threaded stud and retaining screw. AISI 302 stainless s teel return spring.
- **ERZ-SST-p:** AISI 303 stainless steel clamping element with threaded stud and retaining screw. AISI 302 stainless steel return spring.

Retaining screw with six-lobed socket to fit TORX®.

FEATURES AND APPLICATIONS

Particularly suitable when the lever turning angle is limited owing to lack of space.
The metal teeth of the built-in zinc alloy insert allow the assembly of clamping elements completely made out of metal, which can be easily modified by machining in case of special assembly requirements.

SPECIAL EXECUTIONS ON REQUEST

Lever body in orange colour.

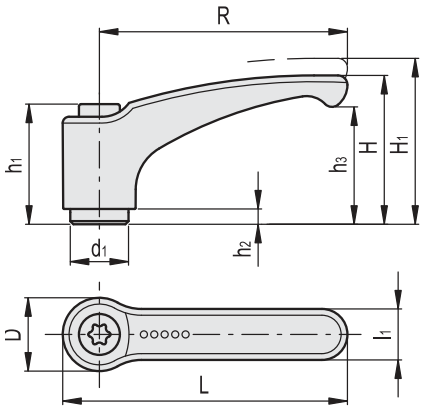
INSTRUCTIONS OF USE

For clamping, lift the lever to disengage the clamping device teeth and bring it back to start position. By releasing the lever, the return spring automatically engages the teeth.
If the lever cannot make a 360° rotation, the clamping element can be easily screwed by means of the six-lobed socket front head screw (after having disengaged the lever).

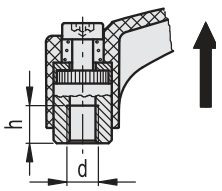
*** Registered trademark by TEXTRON INC.**

ERGOSTYLE®

ERZ-A
ERZ-SST



ERZ-A



ERZ-A

Code	Description	R	d	L	D	H	H1	h	h1	h2	h3	d1	l1	Teeth no.	⚖
237102	ERZ.44 A-M4	44	M4	52	15.5	30.5	34	8	24.5	3.5	22.5	10	11	18	16
237103	ERZ.44 A-M5	44	M5	52	15.5	30.5	34	8	24.5	3.5	22.5	10	11	18	16
237104	ERZ.44 A-M6	44	M6	52	15.5	30.5	34	8	24.5	3.5	22.5	10	11	18	15
237134	ERZ.63 A-M6	63	M6	73.5	19	38.5	42	10	31	3.5	30	13.5	13.5	24	36
237135	ERZ.63 A-M8	63	M8	73.5	19	38.5	42	10	31	3.5	30	13.5	13.5	24	34
237155	ERZ.78 A-M8	78	M8	90.5	23	45	50.5	14	36	3.5	35	16	16	26	61
237156	ERZ.78 A-M10	78	M10	90.5	23	45	50.5	14	36	3.5	35	16	16	26	55
237175	ERZ.95 A-M10	95	M10	109	26.5	56.5	61.5	17	43	5	45	19	18	28	93
237176	ERZ.95 A-M12	95	M12	109	26.5	56.5	61.5	17	43	5	45	19	18	28	86

ERZ-SST **STAINLESS STEEL**

Code	Description	R	d	L	D	H	H1	h	h1	h2	h3	d1	l1	Teeth no.	⚖
239105	ERZ.44 SST-M5	44	M5	52	15.5	30.5	34	8	24.5	3.5	22.5	10	11	18	16
239106	ERZ.44 SST-M6	44	M6	52	15.5	30.5	34	8	24.5	3.5	22.5	10	11	18	15
239135	ERZ.63 SST-M6	63	M6	73.5	19	38.5	42	10	31	3.5	30	13.5	13.5	24	36
239136	ERZ.63 SST-M8	63	M8	73.5	19	38.5	42	10	31	3.5	30	13.5	13.5	24	34
239155	ERZ.78 SST-M8	78	M8	90.5	23	45	50.5	14	36	3.5	35	16	16	26	61
239156	ERZ.78 SST-M10	78	M10	90.5	23	45	50.5	14	36	3.5	35	16	16	26	55
239175	ERZ.95 SST-M10	95	M10	109	26.5	56.5	61.5	17	43	5	45	19	18	28	93
239176	ERZ.95 SST-M12	95	M12	109	26.5	56.5	61.5	17	43	5	45	19	18	28	86

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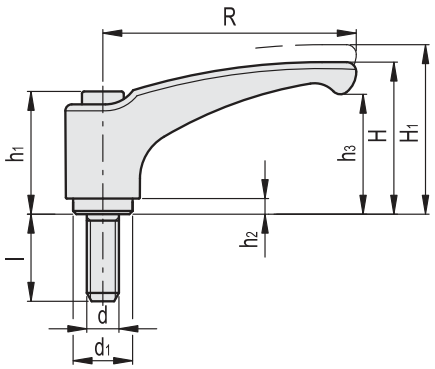
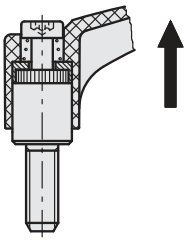
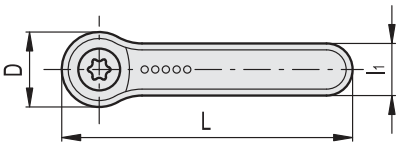


ERZ-p





ERZ-p

Code	Description	R	d	L	D	H	H1	h1	h2	h3	d1	l	l1	Teeth no.	⚖
238103	ERZ.44 p-M4x12	44	M4	52	15.5	30.5	34	24.5	3.5	22.5	10	12	11	18	15
238105	ERZ.44 p-M4x16	44	M4	52	15.5	30.5	34	24.5	3.5	22.5	10	16	11	18	16
238107	ERZ.44 p-M4x20	44	M4	52	15.5	30.5	34	24.5	3.5	22.5	10	20	11	18	17
238109	ERZ.44 p-M4x25	44	M4	52	15.5	30.5	34	24.5	3.5	22.5	10	25	11	18	18
238111	ERZ.44 p-M4x32	44	M4	52	15.5	30.5	34	24.5	3.5	22.5	10	32	11	18	19
238133	ERZ.44 p-M5x12	44	M5	52	15.5	30.5	34	24.5	3.5	22.5	10	12	11	18	17
238135	ERZ.44 p-M5x16	44	M5	52	15.5	30.5	34	24.5	3.5	22.5	10	16	11	18	18
238137	ERZ.44 p-M5x20	44	M5	52	15.5	30.5	34	24.5	3.5	22.5	10	20	11	18	19
238139	ERZ.44 p-M5x25	44	M5	52	15.5	30.5	34	24.5	3.5	22.5	10	25	11	18	20
238141	ERZ.44 p-M5x32	44	M5	52	15.5	30.5	34	24.5	3.5	22.5	10	32	11	18	21
238143	ERZ.44 p-M5x40	44	M5	52	15.5	30.5	34	24.5	3.5	22.5	10	40	11	18	22
238145	ERZ.44 p-M5x50	44	M5	52	15.5	30.5	34	24.5	3.5	22.5	10	50	11	18	23
238153	ERZ.44 p-M6x12	44	M6	52	15.5	30.5	34	24.5	3.5	22.5	10	12	11	18	19
238155	ERZ.44 p-M6x16	44	M6	52	15.5	30.5	34	24.5	3.5	22.5	10	16	11	18	20
238157	ERZ.44 p-M6x20	44	M6	52	15.5	30.5	34	24.5	3.5	22.5	10	20	11	18	21
238159	ERZ.44 p-M6x25	44	M6	52	15.5	30.5	34	24.5	3.5	22.5	10	25	11	18	22
238161	ERZ.44 p-M6x32	44	M6	52	15.5	30.5	34	24.5	3.5	22.5	10	32	11	18	23
238163	ERZ.44 p-M6x40	44	M6	52	15.5	30.5	34	24.5	3.5	22.5	10	40	11	18	24
238165	ERZ.44 p-M6x50	44	M6	52	15.5	30.5	34	24.5	3.5	22.5	10	50	11	18	25
238333	ERZ.63 p-M6x12	63	M6	73.5	19	38.5	42	31	3.5	30	13.5	12	13.5	24	47
238335	ERZ.63 p-M6x16	63	M6	73.5	19	38.5	42	31	3.5	30	13.5	16	13.5	24	49
238337	ERZ.63 p-M6x20	63	M6	73.5	19	38.5	42	31	3.5	30	13.5	20	13.5	24	55
238339	ERZ.63 p-M6x25	63	M6	73.5	19	38.5	42	31	3.5	30	13.5	25	13.5	24	57
238341	ERZ.63 p-M6x32	63	M6	73.5	19	38.5	42	31	3.5	30	13.5	32	13.5	24	61
238343	ERZ.63 p-M6x40	63	M6	73.5	19	38.5	42	31	3.5	30	13.5	40	13.5	24	68
238345	ERZ.63 p-M6x50	63	M6	73.5	19	38.5	42	31	3.5	30	13.5	50	13.5	24	77
238347	ERZ.63 p-M6x63	63	M6	73.5	19	38.5	42	31	3.5	30	13.5	63	13.5	24	79
238351	ERZ.63 p-M8x12	63	M8	73.5	19	38.5	42	31	3.5	30	13.5	12	13.5	24	40
238353	ERZ.63 p-M8x16	63	M8	73.5	19	38.5	42	31	3.5	30	13.5	16	13.5	24	41
238355	ERZ.63 p-M8x20	63	M8	73.5	19	38.5	42	31	3.5	30	13.5	20	13.5	24	42
238357	ERZ.63 p-M8x25	63	M8	73.5	19	38.5	42	31	3.5	30	13.5	25	13.5	24	43
238359	ERZ.63 p-M8x32	63	M8	73.5	19	38.5	42	31	3.5	30	13.5	32	13.5	24	44
238361	ERZ.63 p-M8x40	63	M8	73.5	19	38.5	42	31	3.5	30	13.5	40	13.5	24	46
238363	ERZ.63 p-M8x50	63	M8	73.5	19	38.5	42	31	3.5	30	13.5	50	13.5	24	48
238365	ERZ.63 p-M8x63	63	M8	73.5	19	38.5	42	31	3.5	30	13.5	63	13.5	24	51
238373	ERZ.63 p-M10x20	63	M10	73.5	19	38.5	42	31	3.5	30	13.5	20	13.5	24	42
238375	ERZ.63 p-M10x25	63	M10	73.5	19	38.5	42	31	3.5	30	13.5	25	13.5	24	43
238377	ERZ.63 p-M10x32	63	M10	73.5	19	38.5	42	31	3.5	30	13.5	32	13.5	24	45
238379	ERZ.63 p-M10x40	63	M10	73.5	19	38.5	42	31	3.5	30	13.5	40	13.5	24	47
238381	ERZ.63 p-M10x50	63	M10	73.5	19	38.5	42	31	3.5	30	13.5	50	13.5	24	52
238383	ERZ.63 p-M10x63	63	M10	73.5	19	38.5	42	31	3.5	30	13.5	63	13.5	24	53
238385	ERZ.63 p-M10x80	63	M10	73.5	19	38.5	42	31	3.5	30	13.5	80	13.5	24	57

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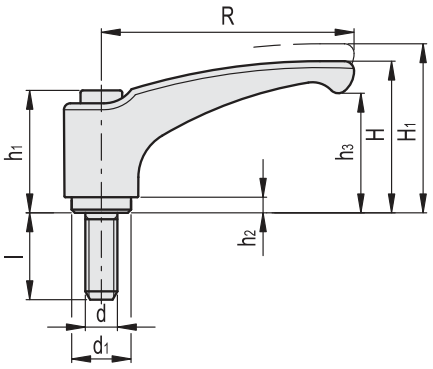
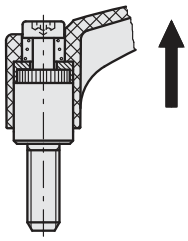
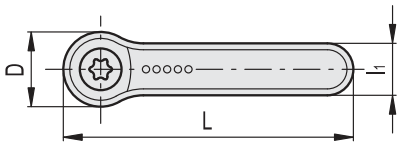


ERZ-p
ERZ-SST-p





ERZ-p

Code	Description	R	d	L	D	H	H1	h1	h2	h3	d1	l	l1	Teeth no.	⚖
238533	ERZ.78 p-M8x16	78	M8	90.5	23	45	50.5	36	3.5	35	16	16	16	26	70
238535	ERZ.78 p-M8x20	78	M8	90.5	23	45	50.5	36	3.5	35	16	20	16	26	73
238537	ERZ.78 p-M8x25	78	M8	90.5	23	45	50.5	36	3.5	35	16	25	16	26	76
238539	ERZ.78 p-M8x32	78	M8	90.5	23	45	50.5	36	3.5	35	16	32	16	26	81
238541	ERZ.78 p-M8x40	78	M8	90.5	23	45	50.5	36	3.5	35	16	40	16	26	86
238543	ERZ.78 p-M8x50	78	M8	90.5	23	45	50.5	36	3.5	35	16	50	16	26	88
238545	ERZ.78 p-M8x63	78	M8	90.5	23	45	50.5	36	3.5	35	16	63	16	26	94
238547	ERZ.78 p-M8x80	78	M8	90.5	23	45	50.5	36	3.5	35	16	80	16	26	102
238551	ERZ.78 p-M10x16	78	M10	90.5	23	45	50.5	36	3.5	35	16	16	16	26	82
238553	ERZ.78 p-M10x20	78	M10	90.5	23	45	50.5	36	3.5	35	16	20	16	26	85
238555	ERZ.78 p-M10x25	78	M10	90.5	23	45	50.5	36	3.5	35	16	25	16	26	91
238557	ERZ.78 p-M10x32	78	M10	90.5	23	45	50.5	36	3.5	35	16	32	16	26	98
238559	ERZ.78 p-M10x40	78	M10	90.5	23	45	50.5	36	3.5	35	16	40	16	26	108
238561	ERZ.78 p-M10x50	78	M10	90.5	23	45	50.5	36	3.5	35	16	50	16	26	120
238563	ERZ.78 p-M10x63	78	M10	90.5	23	45	50.5	36	3.5	35	16	63	16	26	124
238565	ERZ.78 p-M10x80	78	M10	90.5	23	45	50.5	36	3.5	35	16	80	16	26	127
238573	ERZ.78 p-M12x25	78	M12	90.5	23	45	50.5	36	3.5	35	16	25	16	26	70
238575	ERZ.78 p-M12x32	78	M12	90.5	23	45	50.5	36	3.5	35	16	32	16	26	73
238577	ERZ.78 p-M12x40	78	M12	90.5	23	45	50.5	36	3.5	35	16	40	16	26	75
238579	ERZ.78 p-M12x50	78	M12	90.5	23	45	50.5	36	3.5	35	16	50	16	26	79
238581	ERZ.78 p-M12x63	78	M12	90.5	23	45	50.5	36	3.5	35	16	63	16	26	85
238583	ERZ.78 p-M12x80	78	M12	90.5	23	45	50.5	36	3.5	35	16	80	16	26	88
238723	ERZ.95 p-M10x16	95	M10	109	26.5	56.5	61.5	43	5	45	19	16	18	28	111
238725	ERZ.95 p-M10x20	95	M10	109	26.5	56.5	61.5	43	5	45	19	20	18	28	113
238727	ERZ.95 p-M10x25	95	M10	109	26.5	56.5	61.5	43	5	45	19	25	18	28	115
238729	ERZ.95 p-M10x32	95	M10	109	26.5	56.5	61.5	43	5	45	19	32	18	28	118
238731	ERZ.95 p-M10x40	95	M10	109	26.5	56.5	61.5	43	5	45	19	40	18	28	121
238733	ERZ.95 p-M10x50	95	M10	109	26.5	56.5	61.5	43	5	45	19	50	18	28	128
238735	ERZ.95 p-M10x63	95	M10	109	26.5	56.5	61.5	43	5	45	19	63	18	28	133
238737	ERZ.95 p-M10x80	95	M10	109	26.5	56.5	61.5	43	5	45	19	80	18	28	141
238747	ERZ.95 p-M12x16	95	M12	109	26.5	56.5	61.5	43	5	45	19	16	18	28	113
238749	ERZ.95 p-M12x20	95	M12	109	26.5	56.5	61.5	43	5	45	19	20	18	28	117
238751	ERZ.95 p-M12x25	95	M12	109	26.5	56.5	61.5	43	5	45	19	25	18	28	122
238753	ERZ.95 p-M12x32	95	M12	109	26.5	56.5	61.5	43	5	45	19	32	18	28	125
238755	ERZ.95 p-M12x40	95	M12	109	26.5	56.5	61.5	43	5	45	19	40	18	28	132
238757	ERZ.95 p-M12x50	95	M12	109	26.5	56.5	61.5	43	5	45	19	50	18	28	141
238759	ERZ.95 p-M12x63	95	M12	109	26.5	56.5	61.5	43	5	45	19	63	18	28	151
238761	ERZ.95 p-M12x80	95	M12	109	26.5	56.5	61.5	43	5	45	19	80	18	28	160
238773	ERZ.95 p-M16x25	95	M16	109	26.5	56.5	61.5	43	5	45	19	25	18	28	139
238775	ERZ.95 p-M16x32	95	M16	109	26.5	56.5	61.5	43	5	45	19	32	18	28	146
238777	ERZ.95 p-M16x40	95	M16	109	26.5	56.5	61.5	43	5	45	19	40	18	28	154
238779	ERZ.95 p-M16x50	95	M16	109	26.5	56.5	61.5	43	5	45	19	50	18	28	171
238781	ERZ.95 p-M16x63	95	M16	109	26.5	56.5	61.5	43	5	45	19	63	18	28	184
238783	ERZ.95 p-M16x80	95	M16	109	26.5	56.5	61.5	43	5	45	19	80	18	28	199

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ERZ-SST-p **STAINLESS STEEL**

Code	Description	R	d	L	D	H	H1	h1	h2	h3	d1	l	l1	Teeth no.	⚖
239233	ERZ.44 SST-p-M5x12	44	M5	52	15.5	30.5	34	24.5	3.5	22.5	10	12	11	18	17
239235	ERZ.44 SST-p-M5x16	44	M5	52	15.5	30.5	34	24.5	3.5	22.5	10	16	11	18	18
239237	ERZ.44 SST-p-M5x20	44	M5	52	15.5	30.5	34	24.5	3.5	22.5	10	20	11	18	19
239239	ERZ.44 SST-p-M5x25	44	M5	52	15.5	30.5	34	24.5	3.5	22.5	10	25	11	18	20
239241	ERZ.44 SST-p-M5x32	44	M5	52	15.5	30.5	34	24.5	3.5	22.5	10	32	11	18	21
239243	ERZ.44 SST-p-M5x40	44	M5	52	15.5	30.5	34	24.5	3.5	22.5	10	40	11	18	22
239245	ERZ.44 SST-p-M5x50	44	M5	52	15.5	30.5	34	24.5	3.5	22.5	10	50	11	18	23
239253	ERZ.44 SST-p-M6x12	44	M6	52	15.5	30.5	34	24.5	3.5	22.5	10	12	11	18	19
239255	ERZ.44 SST-p-M6x16	44	M6	52	15.5	30.5	34	24.5	3.5	22.5	10	16	11	18	20
239257	ERZ.44 SST-p-M6x20	44	M6	52	15.5	30.5	34	24.5	3.5	22.5	10	20	11	18	21
239259	ERZ.44 SST-p-M6x25	44	M6	52	15.5	30.5	34	24.5	3.5	22.5	10	25	11	18	22
239423	ERZ.44 SST-p-M6x32	44	M6	52	15.5	30.5	34	24.5	3.5	22.5	10	32	11	18	23
239425	ERZ.44 SST-p-M6x40	44	M6	52	15.5	30.5	34	24.5	3.5	22.5	10	40	11	18	24
239427	ERZ.44 SST-p-M6x50	44	M6	52	15.5	30.5	34	24.5	3.5	22.5	10	50	11	18	27
239429	ERZ.63 SST-p-M6x16	63	M6	73.5	19	38.5	42	31	3.5	30	13.5	16	13.5	24	40
239431	ERZ.63 SST-p-M6x20	63	M6	73.5	19	38.5	42	31	3.5	30	13.5	20	13.5	24	41
239433	ERZ.63 SST-p-M6x25	63	M6	73.5	19	38.5	42	31	3.5	30	13.5	25	13.5	24	42
239435	ERZ.63 SST-p-M6x32	63	M6	73.5	19	38.5	42	31	3.5	30	13.5	32	13.5	24	43
239437	ERZ.63 SST-p-M6x40	63	M6	73.5	19	38.5	42	31	3.5	30	13.5	40	13.5	24	44
239439	ERZ.63 SST-p-M6x50	63	M6	73.5	19	38.5	42	31	3.5	30	13.5	50	13.5	24	46
239441	ERZ.63 SST-p-M6x63	63	M6	73.5	19	38.5	42	31	3.5	30	13.5	63	13.5	24	48
239453	ERZ.63 SST-p-M8x16	63	M8	73.5	19	38.5	42	31	3.5	30	13.5	16	13.5	24	42
239455	ERZ.63 SST-p-M8x20	63	M8	73.5	19	38.5	42	31	3.5	30	13.5	20	13.5	24	46
239457	ERZ.63 SST-p-M8x25	63	M8	73.5	19	38.5	42	31	3.5	30	13.5	25	13.5	24	48
239459	ERZ.63 SST-p-M8x32	63	M8	73.5	19	38.5	42	31	3.5	30	13.5	32	13.5	24	50
239643	ERZ.63 SST-p-M8x40	63	M8	73.5	19	38.5	42	31	3.5	30	13.5	40	13.5	24	52
239645	ERZ.63 SST-p-M8x50	63	M8	73.5	19	38.5	42	31	3.5	30	13.5	50	13.5	24	54
239647	ERZ.63 SST-p-M8x63	63	M8	73.5	19	38.5	42	31	3.5	30	13.5	63	13.5	24	58
239673	ERZ.78 SST-p-M8x20	78	M8	90.5	23	45	50.5	36	3.5	35	16	20	16	26	69
239675	ERZ.78 SST-p-M8x25	78	M8	90.5	23	45	50.5	36	3.5	35	16	25	16	26	72
239677	ERZ.78 SST-p-M8x32	78	M8	90.5	23	45	50.5	36	3.5	35	16	32	16	26	76
239679	ERZ.78 SST-p-M8x40	78	M8	90.5	23	45	50.5	36	3.5	35	16	40	16	26	80
239681	ERZ.78 SST-p-M8x50	78	M8	90.5	23	45	50.5	36	3.5	35	16	50	16	26	84
239683	ERZ.78 SST-p-M8x63	78	M8	90.5	23	45	50.5	36	3.5	35	16	63	16	26	89
239685	ERZ.78 SST-p-M8x80	78	M8	90.5	23	45	50.5	36	3.5	35	16	80	16	26	97
239653	ERZ.78 SST-p-M10x20	78	M10	90.5	23	45	50.5	36	3.5	35	16	20	16	26	73
239655	ERZ.78 SST-p-M10x25	78	M10	90.5	23	45	50.5	36	3.5	35	16	25	16	26	76
239657	ERZ.78 SST-p-M10x32	78	M10	90.5	23	45	50.5	36	3.5	35	16	32	16	26	80
239659	ERZ.78 SST-p-M10x40	78	M10	90.5	23	45	50.5	36	3.5	35	16	40	16	26	84
239661	ERZ.78 SST-p-M10x50	78	M10	90.5	23	45	50.5	36	3.5	35	16	50	16	26	88
239663	ERZ.78 SST-p-M10x63	78	M10	90.5	23	45	50.5	36	3.5	35	16	63	16	26	94
239665	ERZ.78 SST-p-M10x80	78	M10	90.5	23	45	50.5	36	3.5	35	16	80	16	26	102
239823	ERZ.95 SST-p-M10x20	95	M10	109	26.5	56.5	61.5	43	5	45	19	20	18	28	113
239825	ERZ.95 SST-p-M10x25	95	M10	109	26.5	56.5	61.5	43	5	45	19	25	18	28	115
239827	ERZ.95 SST-p-M10x32	95	M10	109	26.5	56.5	61.5	43	5	45	19	32	18	28	118
239829	ERZ.95 SST-p-M10x40	95	M10	109	26.5	56.5	61.5	43	5	45	19	40	18	28	121
239831	ERZ.95 SST-p-M10x50	95	M10	109	26.5	56.5	61.5	43	5	45	19	50	18	28	128
239833	ERZ.95 SST-p-M10x63	95	M10	109	26.5	56.5	61.5	43	5	45	19	63	18	28	133
239835	ERZ.95 SST-p-M10x80	95	M10	109	26.5	56.5	61.5	43	5	45	19	80	18	28	141
239849	ERZ.95 SST-p-M12x20	95	M12	109	26.5	56.5	61.5	43	5	45	19	20	18	28	117
239851	ERZ.95 SST-p-M12x25	95	M12	109	26.5	56.5	61.5	43	5	45	19	25	18	28	122
239853	ERZ.95 SST-p-M12x32	95	M12	109	26.5	56.5	61.5	43	5	45	19	32	18	28	125
239855	ERZ.95 SST-p-M12x40	95	M12	109	26.5	56.5	61.5	43	5	45	19	40	18	28	132
239857	ERZ.95 SST-p-M12x50	95	M12	109	26.5	56.5	61.5	43	5	45	19	50	18	28	138
239859	ERZ.95 SST-p-M12x63	95	M12	109	26.5	56.5	61.5	43	5	45	19	63	18	28	148
239861	ERZ.95 SST-p-M12x80	95	M12	109	26.5	56.5	61.5	43	5	45	19	80	18	28	160

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Adjustable handles

Zinc alloy, steel or stainless steel clamping element

LEVER BODY
Die cast zinc alloy, epoxy resin coating, orange, red, grey, black colours, matte finish.

STANDARD EXECUTIONS
- **ERM-A:** black-oxide steel clamping element with threaded hole and retaining screw. Steel return spring.
- **ERM-SST:** AISI 303 stainless steel clamping element with threaded hole and retaining screw. AISI 301 stainless steel return spring.
- **ERM-p:** black-oxide steel clamping element with threaded stud and retaining screw. Steel return spring.
- **ERM-SST-p:** AISI 303 stainless steel clamping element with threaded stud and retaining screw. AISI 301 stainless steel return spring.

Retaining screw with six-lobed socket to fit TORX®.

FEATURES AND APPLICATIONS
Particularly suitable when the lever turning angle is limited owing to lack of space.

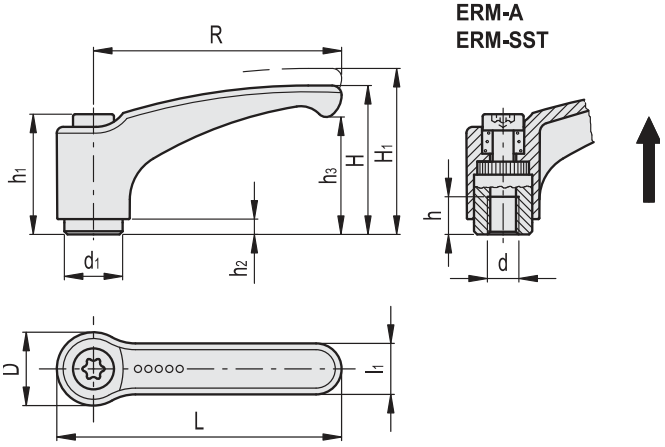
SPECIAL EXECUTIONS ON REQUEST
- Lever body in different colours.
- Chrome-plated lever.
- Clamping element with plain hole.

INSTRUCTIONS OF USE
For clamping, lift the lever to disengage the clamping device teeth and bring it back to start position. By releasing the lever, the return spring automatically engages the teeth.
If the lever cannot make a 360° rotation, the clamping element can be easily screwed by means of the six-lobed socket front head screw (after having disengaged the lever).

*** Registered trademark by TEXTRON INC.**

ERGOSTYLE®

ERM-A
ERM-SST



* Complete with colour index of the lever body, example: 240002-C2 ERM.44 A-M4-C2

C2	C6	C8	C9
RAL2004	RAL3000	RAL9006	RAL9005

ERM-A

Code	Description	R	d	L	D	H	H1	h	h1	h2	h3	d1	l1	Teeth no.	⚖
240002-*	ERM.44 A-M4-*	44	M4	52	14.5	30	33	8	24.5	3.5	20.5	10	11	18	16
240003-*	ERM.44 A-M5-*	44	M5	52	14.5	30	33	8	24.5	3.5	20.5	10	11	18	16
240004-*	ERM.44 A-M6-*	44	M6	52	14.5	30	33	8	24.5	3.5	20.5	10	11	18	15
240014-*	ERM.63 A-M6-*	63	M6	73.5	18	38	41	10	31	3.5	27	13.5	13.5	24	36
240015-*	ERM.63 A-M8-*	63	M8	73.5	18	38	41	10	31	3.5	27	13.5	13.5	24	34
240025-*	ERM.78 A-M8-*	78	M8	90.5	21.5	46	50	14	36	3.5	34.5	16	16	26	61
240026-*	ERM.78 A-M10-*	78	M10	90.5	21.5	46	50	14	36	3.5	34.5	16	16	26	55
240036-*	ERM.95 A-M10-*	95	M10	109	25	56	61	17	43	5	42	19.5	18	28	93
240037-*	ERM.95 A-M12-*	95	M12	109	25	56	61	17	43	5	42	19.5	18	28	86

ERM-SST

STAINLESS STEEL

Code	Description	R	d	L	D	H	H1	h	h1	h2	h3	d1	l1	Teeth no.	⚖
241002-*	ERM.44 SST-A-M4-*	44	M4	52	14.5	30	33	8	24.5	3.5	20.5	10	11	18	16
241003-*	ERM.44 SST-A-M5-*	44	M5	52	14.5	30	33	8	24.5	3.5	20.5	10	11	18	15
241014-*	ERM.63 SST-A-M6-*	63	M6	73.5	18	38	41	10	31	3.5	27	13.5	13.5	24	36
241015-*	ERM.63 SST-A-M8-*	63	M8	73.5	18	38	41	10	31	3.5	27	13.5	13.5	24	34
241025-*	ERM.78 SST-A-M8-*	78	M8	90.5	21.5	46	50	14	36	3.5	34.5	16	16	26	61
241026-*	ERM.78 SST-A-M10-*	78	M10	90.5	21.5	46	50	14	36	3.5	34.5	16	16	26	55
241036-*	ERM.95 SST-A-M10-*	95	M10	109	25	56	61	17	43	5	42	19.5	18	28	93
241037-*	ERM.95 SST-A-M12-*	95	M12	109	25	56	61	17	43	5	42	19.5	18	28	86

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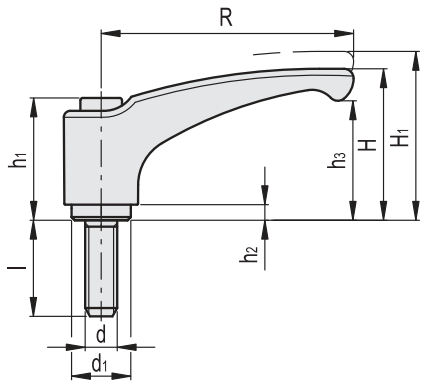
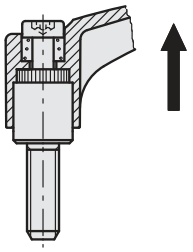
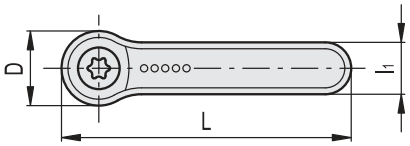


ERM-p





*Complete with colour index of the lever body, example: 240103-C2 ERM.44 p-M4x12-C2

C2	C6	C8	C9
RAL2004	RAL3000	RAL9006	RAL9005

ERM-p

Code	Description	R	d	L	D	H	H1	h1	h2	h3	d1	l	l1	Teeth no.	⚖
240103-*	ERM.44 p-M4x12-*	44	M4	52	14.5	30	33	24.5	3.5	20.5	10	12	11	18	15
240105-*	ERM.44 p-M4x16-*	44	M4	52	14.5	30	33	24.5	3.5	20.5	10	16	11	18	16
240107-*	ERM.44 p-M4x20-*	44	M4	52	14.5	30	33	24.5	3.5	20.5	10	20	11	18	17
240109-*	ERM.44 p-M4x25-*	44	M4	52	14.5	30	33	24.5	3.5	20.5	10	25	11	18	18
240111-*	ERM.44 p-M4x32-*	44	M4	52	14.5	30	33	24.5	3.5	20.5	10	32	11	18	19
240133-*	ERM.44 p-M5x12-*	44	M5	52	14.5	30	33	24.5	3.5	20.5	10	12	11	18	17
240135-*	ERM.44 p-M5x16-*	44	M5	52	14.5	30	33	24.5	3.5	20.5	10	16	11	18	18
240137-*	ERM.44 p-M5x20-*	44	M5	52	14.5	30	33	24.5	3.5	20.5	10	20	11	18	19
240139-*	ERM.44 p-M5x25-*	44	M5	52	14.5	30	33	24.5	3.5	20.5	10	25	11	18	20
240141-*	ERM.44 p-M5x32-*	44	M5	52	14.5	30	33	24.5	3.5	20.5	10	32	11	18	21
240143-*	ERM.44 p-M5x40-*	44	M5	52	14.5	30	33	24.5	3.5	20.5	10	40	11	18	22
240145-*	ERM.44 p-M5x50-*	44	M5	52	14.5	30	33	24.5	3.5	20.5	10	50	11	18	23
240153-*	ERM.44 p-M6x12-*	44	M6	52	14.5	30	33	24.5	3.5	20.5	10	12	11	18	19
240155-*	ERM.44 p-M6x16-*	44	M6	52	14.5	30	33	24.5	3.5	20.5	10	16	11	18	20
240157-*	ERM.44 p-M6x20-*	44	M6	52	14.5	30	33	24.5	3.5	20.5	10	20	11	18	21
240159-*	ERM.44 p-M6x25-*	44	M6	52	14.5	30	33	24.5	3.5	20.5	10	25	11	18	22
240161-*	ERM.44 p-M6x32-*	44	M6	52	14.5	30	33	24.5	3.5	20.5	10	32	11	18	23
240163-*	ERM.44 p-M6x40-*	44	M6	52	14.5	30	33	24.5	3.5	20.5	10	40	11	18	24
240165-*	ERM.44 p-M6x50-*	44	M6	52	14.5	30	33	24.5	3.5	20.5	10	50	11	18	25
240233-*	ERM.63 p-M6x12-*	63	M6	73.5	18	38	41	31	3.5	27	13.5	12	13.5	24	47
240235-*	ERM.63 p-M6x16-*	63	M6	73.5	18	38	41	31	3.5	27	13.5	16	13.5	24	49
240237-*	ERM.63 p-M6x20-*	63	M6	73.5	18	38	41	31	3.5	27	13.5	20	13.5	24	55
240239-*	ERM.63 p-M6x25-*	63	M6	73.5	18	38	41	31	3.5	27	13.5	25	13.5	24	57
240241-*	ERM.63 p-M6x32-*	63	M6	73.5	18	38	41	31	3.5	27	13.5	32	13.5	24	61
240243-*	ERM.63 p-M6x40-*	63	M6	73.5	18	38	41	31	3.5	27	13.5	40	13.5	24	68
240245-*	ERM.63 p-M6x50-*	63	M6	73.5	18	38	41	31	3.5	27	13.5	50	13.5	24	77
240247-*	ERM.63 p-M6x63-*	63	M6	73.5	18	38	41	31	3.5	27	13.5	63	13.5	24	79
240251-*	ERM.63 p-M8x12-*	63	M8	73.5	18	38	41	31	3.5	27	13.5	12	13.5	24	40
240253-*	ERM.63 p-M8x16-*	63	M8	73.5	18	38	41	31	3.5	27	13.5	16	13.5	24	41
240255-*	ERM.63 p-M8x20-*	63	M8	73.5	18	38	41	31	3.5	27	13.5	20	13.5	24	42
240257-*	ERM.63 p-M8x25-*	63	M8	73.5	18	38	41	31	3.5	27	13.5	25	13.5	24	43
240259-*	ERM.63 p-M8x32-*	63	M8	73.5	18	38	41	31	3.5	27	13.5	32	13.5	24	44
240261-*	ERM.63 p-M8x40-*	63	M8	73.5	18	38	41	31	3.5	27	13.5	40	13.5	24	46
240263-*	ERM.63 p-M8x50-*	63	M8	73.5	18	38	41	31	3.5	27	13.5	50	13.5	24	48
240265-*	ERM.63 p-M8x63-*	63	M8	73.5	18	38	41	31	3.5	27	13.5	63	13.5	24	51
240273-*	ERM.63 p-M10x20-*	63	M10	73.5	18	38	41	31	3.5	27	13.5	20	13.5	24	42
240275-*	ERM.63 p-M10x25-*	63	M10	73.5	18	38	41	31	3.5	27	13.5	25	13.5	24	43
240277-*	ERM.63 p-M10x32-*	63	M10	73.5	18	38	41	31	3.5	27	13.5	32	13.5	24	45
240279-*	ERM.63 p-M10x40-*	63	M10	73.5	18	38	41	31	3.5	27	13.5	40	13.5	24	47
240281-*	ERM.63 p-M10x50-*	63	M10	73.5	18	38	41	31	3.5	27	13.5	50	13.5	24	52
240283-*	ERM.63 p-M10x63-*	63	M10	73.5	18	38	41	31	3.5	27	13.5	63	13.5	24	53
240285-*	ERM.63 p-M10x80-*	63	M10	73.5	18	38	41	31	3.5	27	13.5	80	13.5	24	57

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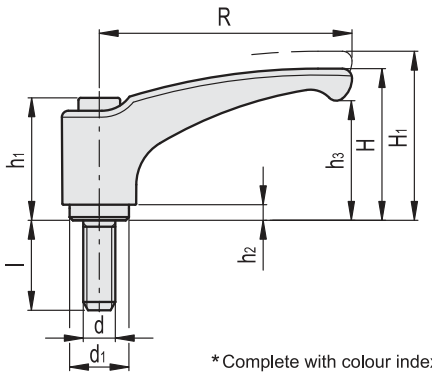
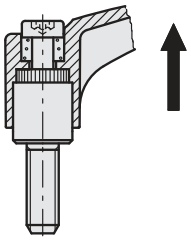
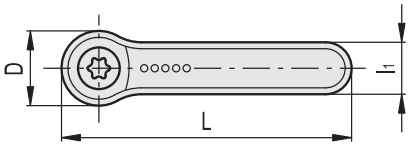


ERM-p
ERM-SST-p





*Complete with colour index of the lever body, example: 240103-C2 ERM.44 p-M4x12-C2

C2	C6	C8	C9
RAL2004	RAL3000	RAL9006	RAL9005

ERM-p

Code	Description	R	d	L	D	H	H1	h1	h2	h3	d1	l	l1	Teeth no.	⚖
240333-*	ERM.78 p-M8x16-*	78	M8	90.5	21.5	46	50	36	3.5	34.5	16	16	16	26	70
240335-*	ERM.78 p-M8x20-*	78	M8	90.5	21.5	46	50	36	3.5	34.5	16	20	16	26	73
240337-*	ERM.78 p-M8x25-*	78	M8	90.5	21.5	46	50	36	3.5	34.5	16	25	16	26	76
240339-*	ERM.78 p-M8x32-*	78	M8	90.5	21.5	46	50	36	3.5	34.5	16	32	16	26	81
240341-*	ERM.78 p-M8x40-*	78	M8	90.5	21.5	46	50	36	3.5	34.5	16	40	16	26	86
240343-*	ERM.78 p-M8x50-*	78	M8	90.5	21.5	46	50	36	3.5	34.5	16	50	16	26	88
240345-*	ERM.78 p-M8x63-*	78	M8	90.5	21.5	46	50	36	3.5	34.5	16	63	16	26	94
240347-*	ERM.78 p-M8x80-*	78	M8	90.5	21.5	46	50	36	3.5	34.5	16	80	16	26	97
240351-*	ERM.78 p-M10x16-*	78	M10	90.5	21.5	46	50	36	3.5	34.5	16	16	16	26	82
240353-*	ERM.78 p-M10x20-*	78	M10	90.5	21.5	46	50	36	3.5	34.5	16	20	16	26	85
240355-*	ERM.78 p-M10x25-*	78	M10	90.5	21.5	46	50	36	3.5	34.5	16	25	16	26	91
240357-*	ERM.78 p-M10x32-*	78	M10	90.5	21.5	46	50	36	3.5	34.5	16	32	16	26	98
240359-*	ERM.78 p-M10x40-*	78	M10	90.5	21.5	46	50	36	3.5	34.5	16	40	16	26	108
240361-*	ERM.78 p-M10x50-*	78	M10	90.5	21.5	46	50	36	3.5	34.5	16	50	16	26	120
240363-*	ERM.78 p-M10x63-*	78	M10	90.5	21.5	46	50	36	3.5	34.5	16	63	16	26	124
240365-*	ERM.78 p-M10x80-*	78	M10	90.5	21.5	46	50	36	3.5	34.5	16	80	16	26	127
240373-*	ERM.78 p-M12x25-*	78	M12	90.5	21.5	46	50	36	3.5	34.5	16	25	16	26	109
240375-*	ERM.78 p-M12x32-*	78	M12	90.5	21.5	46	50	36	3.5	34.5	16	32	16	26	118
240377-*	ERM.78 p-M12x40-*	78	M12	90.5	21.5	46	50	36	3.5	34.5	16	40	16	26	130
240379-*	ERM.78 p-M12x50-*	78	M12	90.5	21.5	46	50	36	3.5	34.5	16	50	16	26	144
240381-*	ERM.78 p-M12x63-*	78	M12	90.5	21.5	46	50	36	3.5	34.5	16	63	16	26	149
240383-*	ERM.78 p-M12x80-*	78	M12	90.5	21.5	46	50	36	3.5	34.5	16	80	16	26	152
240423-*	ERM.95 p-M10x16-*	95	M10	109	25	56	61	43	5	42	19	16	18	28	111
240425-*	ERM.95 p-M10x20-*	95	M10	109	25	56	61	43	5	42	19	20	18	28	113
240427-*	ERM.95 p-M10x25-*	95	M10	109	25	56	61	43	5	42	19	25	18	28	115
240429-*	ERM.95 p-M10x32-*	95	M10	109	25	56	61	43	5	42	19	32	18	28	118
240431-*	ERM.95 p-M10x40-*	95	M10	109	25	56	61	43	5	42	19	40	18	28	121
240433-*	ERM.95 p-M10x50-*	95	M10	109	25	56	61	43	5	42	19	50	18	28	128
240435-*	ERM.95 p-M10x63-*	95	M10	109	25	56	61	43	5	42	19	63	18	28	133
240437-*	ERM.95 p-M10x80-*	95	M10	109	25	56	61	43	5	42	19	80	18	28	141
240447-*	ERM.95 p-M12x16-*	95	M12	109	25	56	61	43	5	42	19	16	18	28	113
240449-*	ERM.95 p-M12x20-*	95	M12	109	25	56	61	43	5	42	19	20	18	28	117
240451-*	ERM.95 p-M12x25-*	95	M12	109	25	56	61	43	5	42	19	25	18	28	122
240453-*	ERM.95 p-M12x32-*	95	M12	109	25	56	61	43	5	42	19	32	18	28	125
240455-*	ERM.95 p-M12x40-*	95	M12	109	25	56	61	43	5	42	19	40	18	28	132
240457-*	ERM.95 p-M12x50-*	95	M12	109	25	56	61	43	5	42	19	50	18	28	141
240459-*	ERM.95 p-M12x63-*	95	M12	109	25	56	61	43	5	42	19	63	18	28	151
240461-*	ERM.95 p-M12x80-*	95	M12	109	25	56	61	43	5	42	19	80	18	28	160
240473-*	ERM.95 p-M16x25-*	95	M16	109	25	56	61	43	5	42	19	25	18	28	139
240475-*	ERM.95 p-M16x32-*	95	M16	109	25	56	61	43	5	42	19	32	18	28	146
240477-*	ERM.95 p-M16x40-*	95	M16	109	25	56	61	43	5	42	19	40	18	28	154
240479-*	ERM.95 p-M16x50-*	95	M16	109	25	56	61	43	5	42	19	50	18	28	171
240481-*	ERM.95 p-M16x63-*	95	M16	109	25	56	61	43	5	42	19	63	18	28	184
240483-*	ERM.95 p-M16x80-*	95	M16	109	25	56	61	43	5	42	19	80	18	28	199

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*Complete with colour index of the lever body, example: 241133-C2 ERM.44 SST-p-M5x12-C2

C2	C6	C8	C9
RAL2004	RAL3000	RAL9006	RAL9005

ERM-SST-p **STAINLESS STEEL**

Code	Description	R	d	L	D	H	H1	h1	h2	h3	d1	l	l1	Teeth no.	⚖
241133-*	ERM.44 SST-p-M5x12-*	44	M5	52	14.5	30	33	24.5	3.5	20.5	10	12	11	18	17
241135-*	ERM.44 SST-p-M5x16-*	44	M5	52	14.5	30	33	24.5	3.5	20.5	10	16	11	18	18
241137-*	ERM.44 SST-p-M5x20-*	44	M5	52	14.5	30	33	24.5	3.5	20.5	10	20	11	18	19
241139-*	ERM.44 SST-p-M5x25-*	44	M5	52	14.5	30	33	24.5	3.5	20.5	10	25	11	18	20
241141-*	ERM.44 SST-p-M5x32-*	44	M5	52	14.5	30	33	24.5	3.5	20.5	10	32	11	18	21
241143-*	ERM.44 SST-p-M5x40-*	44	M5	52	14.5	30	33	24.5	3.5	20.5	10	40	11	18	22
241145-*	ERM.44 SST-p-M5x50-*	44	M5	52	14.5	30	33	24.5	3.5	20.5	10	50	11	18	23
241153-*	ERM.44 SST-p-M6x12-*	44	M6	52	14.5	30	33	24.5	3.5	20.5	10	12	11	18	19
241155-*	ERM.44 SST-p-M6x16-*	44	M6	52	14.5	30	33	24.5	3.5	20.5	10	16	11	18	20
241157-*	ERM.44 SST-p-M6x20-*	44	M6	52	14.5	30	33	24.5	3.5	20.5	10	20	11	18	21
241159-*	ERM.44 SST-p-M6x25-*	44	M6	52	14.5	30	33	24.5	3.5	20.5	10	25	11	18	22
241161-*	ERM.44 SST-p-M6x32-*	44	M6	52	14.5	30	33	24.5	3.5	20.5	10	32	11	18	23
241163-*	ERM.44 SST-p-M6x40-*	44	M6	52	14.5	30	33	24.5	3.5	20.5	10	40	11	18	24
241165-*	ERM.44 SST-p-M6x50-*	44	M6	52	14.5	30	33	24.5	3.5	20.5	10	50	11	18	25
241235-*	ERM.63 SST-p-M6x16-*	63	M6	73.5	18	38	41	31	3.5	27	13.5	16	13.5	24	49
241237-*	ERM.63 SST-p-M6x20-*	63	M6	73.5	18	38	41	31	3.5	27	13.5	20	13.5	24	55
241239-*	ERM.63 SST-p-M6x25-*	63	M6	73.5	18	38	41	31	3.5	27	13.5	25	13.5	24	57
241241-*	ERM.63 SST-p-M6x32-*	63	M6	73.5	18	38	41	31	3.5	27	13.5	32	13.5	24	61
241243-*	ERM.63 SST-p-M6x40-*	63	M6	73.5	18	38	41	31	3.5	27	13.5	40	13.5	24	68
241245-*	ERM.63 SST-p-M6x50-*	63	M6	73.5	18	38	41	31	3.5	27	13.5	50	13.5	24	77
241247-*	ERM.63 SST-p-M6x63-*	63	M6	73.5	18	38	41	31	3.5	27	13.5	63	13.5	24	79
241253-*	ERM.63 SST-p-M8x16-*	63	M8	73.5	18	38	41	31	3.5	27	13.5	16	13.5	24	59
241255-*	ERM.63 SST-p-M8x20-*	63	M8	73.5	18	38	41	31	3.5	27	13.5	20	13.5	24	66
241257-*	ERM.63 SST-p-M8x25-*	63	M8	73.5	18	38	41	31	3.5	27	13.5	25	13.5	24	69
241259-*	ERM.63 SST-p-M8x32-*	63	M8	73.5	18	38	41	31	3.5	27	13.5	32	13.5	24	73
241261-*	ERM.63 SST-p-M8x40-*	63	M8	73.5	18	38	41	31	3.5	27	13.5	40	13.5	24	82
241263-*	ERM.63 SST-p-M8x50-*	63	M8	73.5	18	38	41	31	3.5	27	13.5	50	13.5	24	92
241265-*	ERM.63 SST-p-M8x63-*	63	M8	73.5	18	38	41	31	3.5	27	13.5	63	13.5	24	95
241335-*	ERM.78 SST-p-M8x20-*	78	M8	90.5	21.5	46	50	36	3.5	34.5	16	20	16	26	69
241337-*	ERM.78 SST-p-M8x25-*	78	M8	90.5	21.5	46	50	36	3.5	34.5	16	25	16	26	75
241339-*	ERM.78 SST-p-M8x32-*	78	M8	90.5	21.5	46	50	36	3.5	34.5	16	32	16	26	80
241341-*	ERM.78 SST-p-M8x40-*	78	M8	90.5	21.5	46	50	36	3.5	34.5	16	40	16	26	88
241343-*	ERM.78 SST-p-M8x50-*	78	M8	90.5	21.5	46	50	36	3.5	34.5	16	50	16	26	98
241345-*	ERM.78 SST-p-M8x63-*	78	M8	90.5	21.5	46	50	36	3.5	34.5	16	63	16	26	101
241347-*	ERM.78 SST-p-M8x80-*	78	M8	90.5	21.5	46	50	36	3.5	34.5	16	80	16	26	104
241353-*	ERM.78 SST-p-M10x20-*	78	M10	90.5	21.5	46	50	36	3.5	34.5	16	20	16	26	85
241355-*	ERM.78 SST-p-M10x25-*	78	M10	90.5	21.5	46	50	36	3.5	34.5	16	25	16	26	91
241357-*	ERM.78 SST-p-M10x32-*	78	M10	90.5	21.5	46	50	36	3.5	34.5	16	32	16	26	98
241359-*	ERM.78 SST-p-M10x40-*	78	M10	90.5	21.5	46	50	36	3.5	34.5	16	40	16	26	108
241361-*	ERM.78 SST-p-M10x50-*	78	M10	90.5	21.5	46	50	36	3.5	34.5	16	50	16	26	120
241363-*	ERM.78 SST-p-M10x63-*	78	M10	90.5	21.5	46	50	36	3.5	34.5	16	63	16	26	124
241365-*	ERM.78 SST-p-M10x80-*	78	M10	90.5	21.5	46	50	36	3.5	34.5	16	80	16	26	127
241425-*	ERM.95 SST-p-M10x20-*	95	M10	109	25	56	61	43	5	42	19	20	18	28	113
241427-*	ERM.95 SST-p-M10x25-*	95	M10	109	25	56	61	43	5	42	19	25	18	28	115
241429-*	ERM.95 SST-p-M10x32-*	95	M10	109	25	56	61	43	5	42	19	32	18	28	118
241431-*	ERM.95 SST-p-M10x40-*	95	M10	109	25	56	61	43	5	42	19	40	18	28	121
241433-*	ERM.95 SST-p-M10x50-*	95	M10	109	25	56	61	43	5	42	19	50	18	28	128
241435-*	ERM.95 SST-p-M10x63-*	95	M10	109	25	56	61	43	5	42	19	63	18	28	133
241437-*	ERM.95 SST-p-M10x80-*	95	M10	109	25	56	61	43	5	42	19	80	18	28	141
241449-*	ERM.95 SST-p-M12x20-*	95	M12	109	25	56	61	43	5	42	19	20	18	28	117
241451-*	ERM.95 SST-p-M12x25-*	95	M12	109	25	56	61	43	5	42	19	25	18	28	122
241453-*	ERM.95 SST-p-M12x32-*	95	M12	109	25	56	61	43	5	42	19	32	18	28	125
241455-*	ERM.95 SST-p-M12x40-*	95	M12	109	25	56	61	43	5	42	19	40	18	28	132
241457-*	ERM.95 SST-p-M12x50-*	95	M12	109	25	56	61	43	5	42	19	50	18	28	141
241459-*	ERM.95 SST-p-M12x63-*	95	M12	109	25	56	61	43	5	42	19	63	18	28	151
241461-*	ERM.95 SST-p-M12x80-*	95	M12	109	25	56	61	43	5	42	19	80	18	28	160

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Adjustable hand levers

Zinc die casting, Bushing / Threaded bolt Steel

SPECIFICATION

Handle
Zinc die casting

plastic coated
black, RAL 9005, textured finish **SW**
black, RAL 9011, silk finish **SZ**
orange, RAL 2004, textured finish **OS**
red, RAL 3000, textured finish **RS**
silver, RAL 9006, textured finish **SR**

chrome-plated **CR**

uncoated, slide grinded **RH**

Version with threaded insert

Threaded insert and retaining screw
Steel, blackened

Version with threaded stud

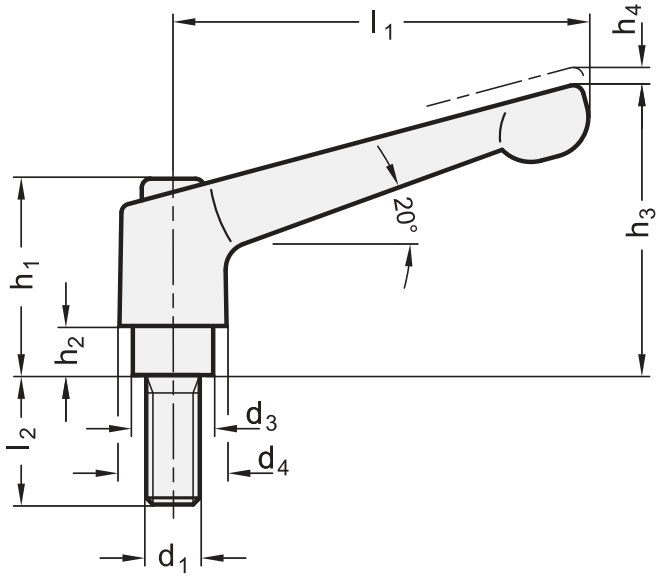
Threaded stud and retaining screw
Steel, blackened

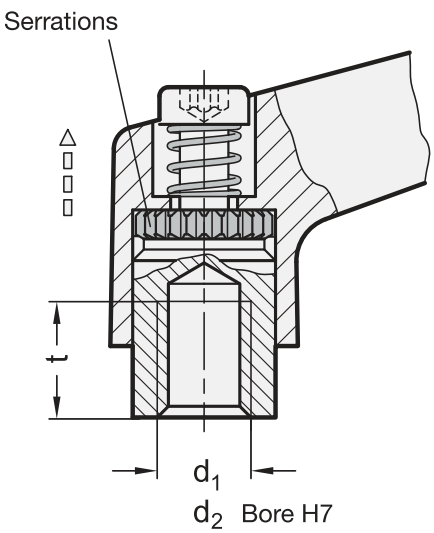
INFORMATION

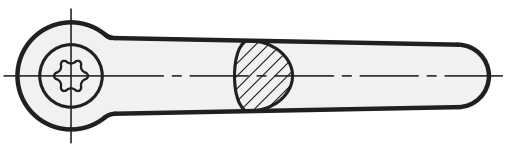
Adjustable hand levers GN 300 are ideal whenever parts have to be clamped in a confined space or in a particular lever position. The centre insert is connected to the lever via serrations which can easily be disengaged.
Pulling the lever, disengages the serrations and allowing it to be swivelled to the ideal clamping position. On releasing the lever the serrations automatically re-engage.

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)







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GN 300

Adjustable hand levers

* Complete with colour index of the clamping lever body (SW, SZ, OS, RS, SR, CR or RH)

SW	SZ	OS	RS	SR	CR	RH
RAL9005	RAL9011	RAL2004	RAL3000	RAL9006	chrome-plated	uncoated

GN 300-with threaded insert

Description	l1	d1	d2 H7	d3	d4	h1	h2	h3	h4	t min.	⚖
GN 300-30-B5-*	30	-	B 5	10	13	24.5	4	31	3.5	9	25
GN 300-30-B6-*	30	-	B 6	10	13	24.5	4	31	3.5	9	24
GN 300-30-M3-*	30	M 3	-	10	13	24.5	4	31	3.5	7	27
GN 300-30-M4-*	30	M 4	-	10	13	24.5	4	31	3.5	9	27
GN 300-30-M5-*	30	M 5	-	10	13	24.5	4	31	3.5	9	25
GN 300-30-M6-*	30	M 6	-	10	13	24.5	4	31	3.5	9	24
GN 300-45-B5-*	45	-	B 5	10	13	24.5	4	34	3.5	9	33
GN 300-45-B6-*	45	-	B 6	10	13	24.5	4	34	3.5	9	32
GN 300-45-M4-*	45	M 4	-	10	13	24.5	4	34	3.5	9	34
GN 300-45-M5-*	45	M 5	-	10	13	24.5	4	34	3.5	9	33
GN 300-45-M6-*	45	M 6	-	10	13	24.5	4	34	3.5	9	32
GN 300-63-B8-*	63	-	B 8	13.5	17.5	31	6.5	45	4	11	74
GN 300-63-M6-*	63	M 6	-	13.5	17.5	31	6.5	45	4	11	77
GN 300-63-M8-*	63	M 8	-	13.5	17.5	31	6.5	45	4	11	75
GN 300-78-B8-*	78	-	B 8	16	21	36	8	54	4	14	122
GN 300-78-B10-*	78	-	B 10	16	21	36	8	54	4	14	118
GN 300-78-M8-*	78	M 8	-	16	21	36	8	54	4	14	123
GN 300-78-M10-*	78	M 10	-	16	21	36	8	54	4	14	121
GN 300-92-B12-*	92	-	B 12	19	24	43	11	64	4	17	178
GN 300-92-M10-*	92	M 10	-	19	24	43	11	64	4	17	187
GN 300-92-M12-*	92	M 12	-	19	24	43	11	64	4	17	181
GN 300-108-B12-*	108	-	B 12	23	30	50.5	12	75	5	22	305
GN 300-108-B16-*	108	-	B 16	23	30	50.5	12	75	5	22	291
GN 300-108-M12-*	108	M 12	-	23	30	50.5	12	75	5	22	304
GN 300-108-M14-*	108	M 14	-	23	30	50.5	12	75	5	22	298
GN 300-108-M16-*	108	M 16	-	23	30	50.5	12	75	5	22	290

GN 300-with threaded stud

Description	l1	d1	l2	d3	d4	h1	h2	h3	h4	⚖
GN 300-30-M3-6-*	30	M 3	6	10	13	24.5	4	31	3.5	21
GN 300-30-M3-8-*	30	M 3	8	10	13	24.5	4	31	3.5	22
GN 300-30-M3-10-*	30	M 3	10	10	13	24.5	4	31	3.5	23
GN 300-30-M3-12-*	30	M 3	12	10	13	24.5	4	31	3.5	24
GN 300-30-M3-16-*	30	M 3	16	10	13	24.5	4	31	3.5	25
GN 300-30-M4-12-*	30	M 4	12	10	13	24.5	4	31	3.5	28
GN 300-30-M4-16-*	30	M 4	16	10	13	24.5	4	31	3.5	28
GN 300-30-M4-20-*	30	M 4	20	10	13	24.5	4	31	3.5	29
GN 300-30-M4-25-*	30	M 4	25	10	13	24.5	4	31	3.5	30
GN 300-30-M4-32-*	30	M 4	32	10	13	24.5	4	31	3.5	31
GN 300-30-M5-12-*	30	M 5	12	10	13	24.5	4	31	3.5	29
GN 300-30-M5-16-*	30	M 5	16	10	13	24.5	4	31	3.5	29
GN 300-30-M5-20-*	30	M 5	20	10	13	24.5	4	31	3.5	29
GN 300-30-M5-25-*	30	M 5	25	10	13	24.5	4	31	3.5	30
GN 300-30-M5-32-*	30	M 5	32	10	13	24.5	4	31	3.5	31
GN 300-30-M5-40-*	30	M 5	40	10	13	24.5	4	31	3.5	32
GN 300-30-M5-50-*	30	M 5	50	10	13	24.5	4	31	3.5	33
GN 300-30-M6-12-*	30	M 6	12	10	13	24.5	4	31	3.5	29
GN 300-30-M6-16-*	30	M 6	16	10	13	24.5	4	31	3.5	30
GN 300-30-M6-20-*	30	M 6	20	10	13	24.5	4	31	3.5	31

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* Complete with colour index of the clamping lever body (SW, SZ, OS, RS, SR, CR or RH)

SW RAL9005 | SZ RAL9011 | OS RAL2004 | RS RAL3000 | SR RAL9006 | CR chrome-plated | RH uncoated

GN 300-with threaded stud

Description	l1	d1	l2	d3	d4	h1	h2	h3	h4	⚖
GN 300-30-M6-25-*	30	M 6	25	10	13	24.5	4	31	3.5	32
GN 300-30-M6-32-*	30	M 6	32	10	13	24.5	4	31	3.5	33
GN 300-30-M6-40-*	30	M 6	40	10	13	24.5	4	31	3.5	35
GN 300-30-M6-50-*	30	M 6	50	10	13	24.5	4	31	3.5	36
GN 300-45-M4-12-*	45	M 4	12	10	13	24.5	4	34	3.5	35
GN 300-45-M4-16-*	45	M 4	16	10	13	24.5	4	34	3.5	39
GN 300-45-M4-20-*	45	M 4	20	10	13	24.5	4	34	3.5	39
GN 300-45-M4-25-*	45	M 4	25	10	13	24.5	4	34	3.5	39
GN 300-45-M4-32-*	45	M 4	32	10	13	24.5	4	34	3.5	40
GN 300-45-M5-12-*	45	M 5	12	10	13	24.5	4	34	3.5	35
GN 300-45-M5-16-*	45	M 5	16	10	13	24.5	4	34	3.5	36
GN 300-45-M5-20-*	45	M 5	20	10	13	24.5	4	34	3.5	37
GN 300-45-M5-25-*	45	M 5	25	10	13	24.5	4	34	3.5	38
GN 300-45-M5-32-*	45	M 5	32	10	13	24.5	4	34	3.5	39
GN 300-45-M5-40-*	45	M 5	40	10	13	24.5	4	34	3.5	40
GN 300-45-M5-50-*	45	M 5	50	10	13	24.5	4	34	3.5	42
GN 300-45-M6-12-*	45	M 6	12	10	13	24.5	4	34	3.5	36
GN 300-45-M6-16-*	45	M 6	16	10	13	24.5	4	34	3.5	37
GN 300-45-M6-20-*	45	M 6	20	10	13	24.5	4	34	3.5	38
GN 300-45-M6-25-*	45	M 6	25	10	13	24.5	4	34	3.5	39
GN 300-45-M6-32-*	45	M 6	32	10	13	24.5	4	34	3.5	41
GN 300-45-M6-40-*	45	M 6	40	10	13	24.5	4	34	3.5	41
GN 300-45-M6-50-*	45	M 6	50	10	13	24.5	4	34	3.5	43
GN 300-63-M6-12-*	63	M 6	12	13.5	17.5	31	6.5	45	4	80
GN 300-63-M6-16-*	63	M 6	16	13.5	17.5	31	6.5	45	4	80
GN 300-63-M6-20-*	63	M 6	20	13.5	17.5	31	6.5	45	4	82
GN 300-63-M6-25-*	63	M 6	25	13.5	17.5	31	6.5	45	4	83
GN 300-63-M6-32-*	63	M 6	32	13.5	17.5	31	6.5	45	4	84
GN 300-63-M6-40-*	63	M 6	40	13.5	17.5	31	6.5	45	4	85
GN 300-63-M6-50-*	63	M 6	50	13.5	17.5	31	6.5	45	4	86
GN 300-63-M6-63-*	63	M 6	63	13.5	17.5	31	6.5	45	4	88
GN 300-63-M8-12-*	63	M 8	12	13.5	17.5	31	6.5	45	4	82
GN 300-63-M8-16-*	63	M 8	16	13.5	17.5	31	6.5	45	4	84
GN 300-63-M8-20-*	63	M 8	20	13.5	17.5	31	6.5	45	4	85
GN 300-63-M8-25-*	63	M 8	25	13.5	17.5	31	6.5	45	4	86
GN 300-63-M8-32-*	63	M 8	32	13.5	17.5	31	6.5	45	4	88
GN 300-63-M8-40-*	63	M 8	40	13.5	17.5	31	6.5	45	4	93
GN 300-63-M8-50-*	63	M 8	50	13.5	17.5	31	6.5	45	4	95
GN 300-63-M8-63-*	63	M 8	63	13.5	17.5	31	6.5	45	4	98
GN 300-63-M10-20-*	63	M 10	20	13.5	17.5	31	6.5	45	4	88
GN 300-63-M10-25-*	63	M 10	25	13.5	17.5	31	6.5	45	4	91
GN 300-63-M10-32-*	63	M 10	32	13.5	17.5	31	6.5	45	4	94
GN 300-63-M10-40-*	63	M 10	40	13.5	17.5	31	6.5	45	4	96
GN 300-63-M10-50-*	63	M 10	50	13.5	17.5	31	6.5	45	4	103
GN 300-63-M10-63-*	63	M 10	63	13.5	17.5	31	6.5	45	4	108
GN 300-63-M10-80-*	63	M 10	80	13.5	17.5	31	6.5	45	4	118
GN 300-78-M8-16-*	78	M 8	16	16	21	36	8	54	4	131
GN 300-78-M8-20-*	78	M 8	20	16	21	36	8	54	4	132
GN 300-78-M8-25-*	78	M 8	25	16	21	36	8	54	4	133
GN 300-78-M8-32-*	78	M 8	32	16	21	36	8	54	4	136
GN 300-78-M8-40-*	78	M 8	40	16	21	36	8	54	4	140

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GN 300

Adjustable hand levers

* Complete with colour index of the clamping lever body (SW, SZ, OS, RS, SR, CR or RH)

SW	SZ	OS	RS	SR	CR	RH
RAL9005	RAL9011	RAL2004	RAL3000	RAL9006	chrome-plated	uncoated

GN 300-with threaded stud

Description	l1	d1	l2	d3	d4	h1	h2	h3	h4	⚖
GN 300-78-M8-50-*	78	M 8	50	16	21	36	8	54	4	145
GN 300-78-M8-63-*	78	M 8	63	16	21	36	8	54	4	147
GN 300-78-M8-80-*	78	M 8	80	16	21	36	8	54	4	152
GN 300-78-M10-16-*	78	M 10	16	16	21	36	8	54	4	137
GN 300-78-M10-20-*	78	M 10	20	16	21	36	8	54	4	139
GN 300-78-M10-25-*	78	M 10	25	16	21	36	8	54	4	141
GN 300-78-M10-32-*	78	M 10	32	16	21	36	8	54	4	145
GN 300-78-M10-40-*	78	M 10	40	16	21	36	8	54	4	149
GN 300-78-M10-50-*	78	M 10	50	16	21	36	8	54	4	154
GN 300-78-M10-63-*	78	M 10	63	16	21	36	8	54	4	160
GN 300-78-M10-80-*	78	M 10	80	16	21	36	8	54	4	170
GN 300-78-M12-25-*	78	M 12	25	16	21	36	8	54	4	145
GN 300-78-M12-32-*	78	M 12	32	16	21	36	8	54	4	150
GN 300-78-M12-40-*	78	M 12	40	16	21	36	8	54	4	156
GN 300-78-M12-50-*	78	M 12	50	16	21	36	8	54	4	163
GN 300-78-M12-63-*	78	M 12	63	16	21	36	8	54	4	171
GN 300-78-M12-80-*	78	M 12	80	16	21	36	8	54	4	183
GN 300-92-M10-16-*	92	M 10	16	19	24	43	11	64	4	199
GN 300-92-M10-20-*	92	M 10	20	19	24	43	11	64	4	202
GN 300-92-M10-25-*	92	M 10	25	19	24	43	11	64	4	205
GN 300-92-M10-32-*	92	M 10	32	19	24	43	11	64	4	209
GN 300-92-M10-40-*	92	M 10	40	19	24	43	11	64	4	213
GN 300-92-M10-50-*	92	M 10	50	19	24	43	11	64	4	219
GN 300-92-M10-63-*	92	M 10	63	19	24	43	11	64	4	224
GN 300-92-M10-80-*	92	M 10	80	19	24	43	11	64	4	235
GN 300-92-M12-16-*	92	M 12	16	19	24	43	11	64	4	206
GN 300-92-M12-20-*	92	M 12	20	19	24	43	11	64	4	209
GN 300-92-M12-25-*	92	M 12	25	19	24	43	11	64	4	215
GN 300-92-M12-32-*	92	M 12	32	19	24	43	11	64	4	220
GN 300-92-M12-40-*	92	M 12	40	19	24	43	11	64	4	224
GN 300-92-M12-50-*	92	M 12	50	19	24	43	11	64	4	230
GN 300-92-M12-63-*	92	M 12	63	19	24	43	11	64	4	242
GN 300-92-M12-80-*	92	M 12	80	19	24	43	11	64	4	250
GN 300-92-M16-25-*	92	M 16	25	19	24	43	11	64	4	226
GN 300-92-M16-32-*	92	M 16	32	19	24	43	11	64	4	234
GN 300-92-M16-40-*	92	M 16	40	19	24	43	11	64	4	245
GN 300-92-M16-50-*	92	M 16	50	19	24	43	11	64	4	259
GN 300-92-M16-63-*	92	M 16	63	19	24	43	11	64	4	276
GN 300-92-M16-80-*	92	M 16	80	19	24	43	11	64	4	311
GN 300-108-M12-25-*	108	M 12	25	23	30	50.5	12	75	5	350
GN 300-108-M12-32-*	108	M 12	32	23	30	50.5	12	75	5	320
GN 300-108-M12-40-*	108	M 12	40	23	30	50.5	12	75	5	307
GN 300-108-M12-50-*	108	M 12	50	23	30	50.5	12	75	5	340
GN 300-108-M12-63-*	108	M 12	63	23	30	50.5	12	75	5	365
GN 300-108-M12-80-*	108	M 12	80	23	30	50.5	12	75	5	383
GN 300-108-M12-120-*	108	M 12	120	23	30	50.5	12	75	5	410
GN 300-108-M16-25-*	108	M 16	25	23	30	50.5	12	75	5	355
GN 300-108-M16-32-*	108	M 16	32	23	30	50.5	12	75	5	365
GN 300-108-M16-40-*	108	M 16	40	23	30	50.5	12	75	5	376
GN 300-108-M16-50-*	108	M 16	50	23	30	50.5	12	75	5	388
GN 300-108-M16-63-*	108	M 16	63	23	30	50.5	12	75	5	407
GN 300-108-M16-80-*	108	M 16	80	23	30	50.5	12	75	5	429
GN 300-108-M16-120-*	108	M 16	120	23	30	50.5	12	75	5	476

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Adjustable hand levers

Zinc die casting, Bushing / Threaded bolt
Stainless Steel

SPECIFICATION

Handle
Zinc die casting

plastic coated
black, RAL 9005, textured finish **SW**
black, RAL 9011, silk finish **SZ**
orange, RAL 2004, textured finish **OS**
red, RAL 3000, textured finish **RS**
silver, RAL 9006, textured finish **SR**

chrome-plated **CR**

uncoated, slide grinded **RH**

Version with threaded insert

Threaded insert and retaining screw
Stainless Steel AISI 303

Version with threaded stud

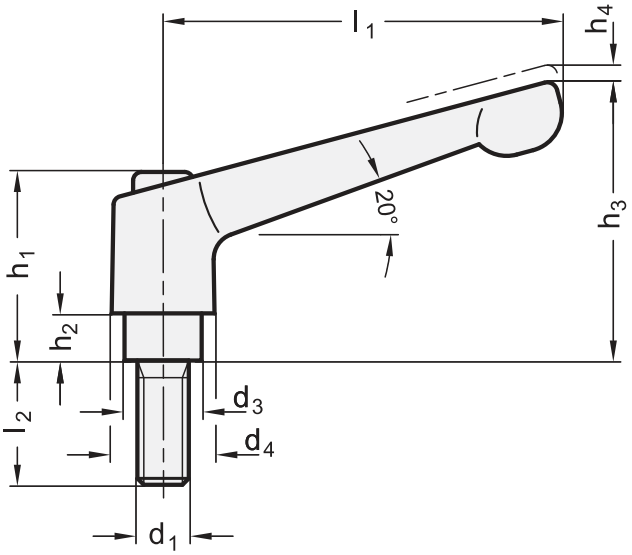
Threaded stud and retaining screw
Stainless Steel AISI 303

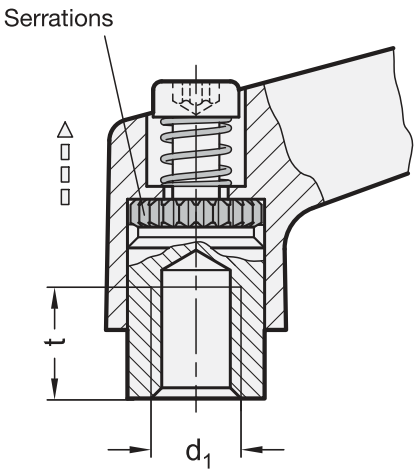
INFORMATION

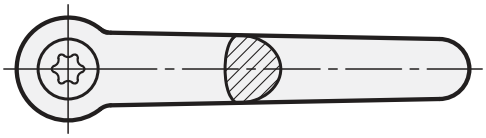
Adjustable hand levers GN 300.1 are ideal whenever parts have to be clamped in a confined space or in a particular lever position. The centre insert is connected to the lever via serrations which can easily be disengaged.
Pulling the lever, disengages the serrations and allowing it to be swivelled to the ideal clamping position. On releasing the lever the serrations automatically re-engage.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)







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GN 300.1 | Adjustable hand levers

* Complete with colour index of the clamping lever body (SW, SZ, OS, RS, SR, CR or RH)

SW RAL9005 | SZ RAL9011 | OS RAL2004 | RS RAL3000 | SR RAL9006 | CR chrome-plated | RH uncoated

GN 300.1-with threaded insert

Description	l1	d1	d3	d4	h1	h2	h3	h4	t min.	⚖
GN 300.1-30-M3-*	30	M 3	10	13	24.5	4	31	3.5	7	27
GN 300.1-30-M4-*	30	M 4	10	13	24.5	4	31	3.5	8	27
GN 300.1-30-M5-*	30	M 5	10	13	24.5	4	31	3.5	8	26
GN 300.1-30-M6-*	30	M 6	10	13	24.5	4	31	3.5	8	25
GN 300.1-45-M4-*	45	M 4	10	13	24.5	4	34	3.5	8	34
GN 300.1-45-M5-*	45	M 5	10	13	24.5	4	34	3.5	8	33
GN 300.1-45-M6-*	45	M 6	10	13	24.5	4	34	3.5	8	32
GN 300.1-63-M6-*	63	M 6	13.5	17.5	31	6.5	45	4	11	76
GN 300.1-63-M8-*	63	M 8	13.5	17.5	31	6.5	45	4	11	75
GN 300.1-78-M8-*	78	M 8	16	21	36	8	54	4	14	123
GN 300.1-78-M10-*	78	M 10	16	21	36	8	54	4	14	119
GN 300.1-92-M10-*	92	M 10	19	24	43	11	64	4	17	184
GN 300.1-92-M12-*	92	M 12	19	24	43	11	64	4	17	178
GN 300.1-108-M12-*	108	M 12	23	30	50.5	12	75	5	22	306
GN 300.1-108-M16-*	108	M 16	23	30	50.5	12	75	5	22	289

GN 300.1-with threaded stud

Description	l1	d1	l2	d3	d4	h1	h2	h3	h4	⚖
GN 300.1-30-M3-6-*	30	M 3	6	10	13	24.5	4	31	3.5	27
GN 300.1-30-M3-8-*	30	M 3	8	10	13	24.5	4	31	3.5	28
GN 300.1-30-M3-10-*	30	M 3	10	10	13	24.5	4	31	3.5	28
GN 300.1-30-M3-12-*	30	M 3	12	10	13	24.5	4	31	3.5	30
GN 300.1-30-M3-16-*	30	M 3	16	10	13	24.5	4	31	3.5	30
GN 300.1-30-M4-12-*	30	M 4	12	10	13	24.5	4	31	3.5	28
GN 300.1-30-M4-16-*	30	M 4	16	10	13	24.5	4	31	3.5	28
GN 300.1-30-M4-20-*	30	M 4	20	10	13	24.5	4	31	3.5	29
GN 300.1-30-M4-25-*	30	M 4	25	10	13	24.5	4	31	3.5	30
GN 300.1-30-M4-32-*	30	M 4	32	10	13	24.5	4	31	3.5	31
GN 300.1-30-M5-12-*	30	M 5	12	10	13	24.5	4	31	3.5	29
GN 300.1-30-M5-16-*	30	M 5	16	10	13	24.5	4	31	3.5	29
GN 300.1-30-M5-20-*	30	M 5	20	10	13	24.5	4	31	3.5	29
GN 300.1-30-M5-25-*	30	M 5	25	10	13	24.5	4	31	3.5	30
GN 300.1-30-M5-32-*	30	M 5	32	10	13	24.5	4	31	3.5	31
GN 300.1-30-M5-40-*	30	M 5	40	10	13	24.5	4	31	3.5	32
GN 300.1-30-M5-50-*	30	M 5	50	10	13	24.5	4	31	3.5	33
GN 300.1-30-M6-12-*	30	M 6	12	10	13	24.5	4	31	3.5	29
GN 300.1-30-M6-16-*	30	M 6	16	10	13	24.5	4	31	3.5	30
GN 300.1-30-M6-20-*	30	M 6	20	10	13	24.5	4	31	3.5	31
GN 300.1-30-M6-25-*	30	M 6	25	10	13	24.5	4	31	3.5	32
GN 300.1-30-M6-32-*	30	M 6	32	10	13	24.5	4	31	3.5	33
GN 300.1-30-M6-40-*	30	M 6	40	10	13	24.5	4	31	3.5	34
GN 300.1-30-M6-50-*	30	M 6	50	10	13	24.5	4	31	3.5	35
GN 300.1-45-M4-12-*	45	M 4	12	10	13	24.5	4	34	3.5	35
GN 300.1-45-M4-16-*	45	M 4	16	10	13	24.5	4	34	3.5	36
GN 300.1-45-M4-20-*	45	M 4	20	10	13	24.5	4	34	3.5	35
GN 300.1-45-M4-25-*	45	M 4	25	10	13	24.5	4	34	3.5	37
GN 300.1-45-M4-32-*	45	M 4	32	10	13	24.5	4	34	3.5	38
GN 300.1-45-M5-12-*	45	M 5	12	10	13	24.5	4	34	3.5	35
GN 300.1-45-M5-16-*	45	M 5	16	10	13	24.5	4	34	3.5	36
GN 300.1-45-M5-20-*	45	M 5	20	10	13	24.5	4	34	3.5	37
GN 300.1-45-M5-25-*	45	M 5	25	10	13	24.5	4	34	3.5	38
GN 300.1-45-M5-32-*	45	M 5	32	10	13	24.5	4	34	3.5	38
GN 300.1-45-M5-40-*	45	M 5	40	10	13	24.5	4	34	3.5	39
GN 300.1-45-M5-50-*	45	M 5	50	10	13	24.5	4	34	3.5	43

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GN 300.1 | Adjustable hand levers

* Complete with colour index of the clamping lever body (SW, SZ, OS, RS, SR, CR or RH)

SW RAL9005 | SZ RAL9011 | OS RAL2004 | RS RAL3000 | SR RAL9006 | CR chrome-plated | RH uncoated

GN 300.1-with threaded stud

Description	l1	d1	l2	d3	d4	h1	h2	h3	h4	⚖
GN 300.1-45-M6-12-*	45	M 6	12	10	13	24.5	4	34	3.5	36
GN 300.1-45-M6-16-*	45	M 6	16	10	13	24.5	4	34	3.5	37
GN 300.1-45-M6-20-*	45	M 6	20	10	13	24.5	4	34	3.5	38
GN 300.1-45-M6-25-*	45	M 6	25	10	13	24.5	4	34	3.5	39
GN 300.1-45-M6-32-*	45	M 6	32	10	13	24.5	4	34	3.5	39
GN 300.1-45-M6-40-*	45	M 6	40	10	13	24.5	4	34	3.5	40
GN 300.1-45-M6-50-*	45	M 6	50	10	13	24.5	4	34	3.5	43
GN 300.1-63-M6-16-*	63	M 6	16	13.5	17.5	31	6.5	45	4	80
GN 300.1-63-M6-20-*	63	M 6	20	13.5	17.5	31	6.5	45	4	91
GN 300.1-63-M6-25-*	63	M 6	25	13.5	17.5	31	6.5	45	4	82
GN 300.1-63-M6-32-*	63	M 6	32	13.5	17.5	31	6.5	45	4	83
GN 300.1-63-M6-40-*	63	M 6	40	13.5	17.5	31	6.5	45	4	85
GN 300.1-63-M6-50-*	63	M 6	50	13.5	17.5	31	6.5	45	4	86
GN 300.1-63-M6-63-*	63	M 6	63	13.5	17.5	31	6.5	45	4	88
GN 300.1-63-M8-16-*	63	M 8	16	13.5	17.5	31	6.5	45	4	84
GN 300.1-63-M8-20-*	63	M 8	20	13.5	17.5	31	6.5	45	4	85
GN 300.1-63-M8-25-*	63	M 8	25	13.5	17.5	31	6.5	45	4	87
GN 300.1-63-M8-32-*	63	M 8	32	13.5	17.5	31	6.5	45	4	89
GN 300.1-63-M8-40-*	63	M 8	40	13.5	17.5	31	6.5	45	4	91
GN 300.1-63-M8-50-*	63	M 8	50	13.5	17.5	31	6.5	45	4	93
GN 300.1-63-M8-63-*	63	M 8	63	13.5	17.5	31	6.5	45	4	98
GN 300.1-78-M8-20-*	78	M 8	20	16	21	36	8	54	4	137
GN 300.1-78-M8-25-*	78	M 8	25	16	21	36	8	54	4	138
GN 300.1-78-M8-32-*	78	M 8	32	16	21	36	8	54	4	139
GN 300.1-78-M8-40-*	78	M 8	40	16	21	36	8	54	4	140
GN 300.1-78-M8-50-*	78	M 8	50	16	21	36	8	54	4	144
GN 300.1-78-M8-63-*	78	M 8	63	16	21	36	8	54	4	148
GN 300.1-78-M8-80-*	78	M 8	80	16	21	36	8	54	4	156
GN 300.1-78-M10-20-*	78	M 10	20	16	21	36	8	54	4	139
GN 300.1-78-M10-25-*	78	M 10	25	16	21	36	8	54	4	140
GN 300.1-78-M10-32-*	78	M 10	32	16	21	36	8	54	4	142
GN 300.1-78-M10-40-*	78	M 10	40	16	21	36	8	54	4	149
GN 300.1-78-M10-50-*	78	M 10	50	16	21	36	8	54	4	154
GN 300.1-78-M10-63-*	78	M 10	63	16	21	36	8	54	4	161
GN 300.1-78-M10-80-*	78	M 10	80	16	21	36	8	54	4	166
GN 300.1-92-M10-20-*	92	M 10	20	19	24	43	11	64	4	202
GN 300.1-92-M10-25-*	92	M 10	25	19	24	43	11	64	4	205
GN 300.1-92-M10-32-*	92	M 10	32	19	24	43	11	64	4	209
GN 300.1-92-M10-40-*	92	M 10	40	19	24	43	11	64	4	213
GN 300.1-92-M10-50-*	92	M 10	50	19	24	43	11	64	4	219
GN 300.1-92-M10-63-*	92	M 10	63	19	24	43	11	64	4	225
GN 300.1-92-M10-80-*	92	M 10	80	19	24	43	11	64	4	235
GN 300.1-92-M12-20-*	92	M 12	20	19	24	43	11	64	4	209
GN 300.1-92-M12-25-*	92	M 12	25	19	24	43	11	64	4	215
GN 300.1-92-M12-32-*	92	M 12	32	19	24	43	11	64	4	220
GN 300.1-92-M12-40-*	92	M 12	40	19	24	43	11	64	4	222
GN 300.1-92-M12-50-*	92	M 12	50	19	24	43	11	64	4	233
GN 300.1-92-M12-63-*	92	M 12	63	19	24	43	11	64	4	242
GN 300.1-92-M12-80-*	92	M 12	80	19	24	43	11	64	4	250
GN 300.1-108-M16-32-*	108	M 16	32	23	30	50.5	12	75	5	365
GN 300.1-108-M16-40-*	108	M 16	40	23	30	50.5	12	75	5	376
GN 300.1-108-M16-50-*	108	M 16	50	23	30	50.5	12	75	5	388
GN 300.1-108-M16-63-*	108	M 16	63	23	30	50.5	12	75	5	407
GN 300.1-108-M16-80-*	108	M 16	80	23	30	50.5	12	75	5	429

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GN 300.5

Adjustable Stainless Steel-Hand levers

matt shot-blasted

SPECIFICATION

Types

- Type **AS**: with external hexagon
- Type **IS**: with internal hexalobular

Handle
Precision casting

- Stainless Steel AISI CF-8
- matt shot-blasted

Version with threaded insert

Threaded bush
Stainless Steel AISI 303

Retaining screw
Stainless Steel AISI 303

Spring
Stainless Steel AISI 301

Version with threaded stud

Threaded stud
Stainless Steel AISI 303

Retaining screw
Stainless Steel AISI 303

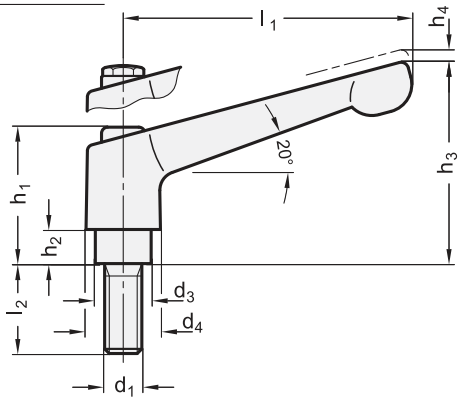
Spring
Stainless Steel AISI 301

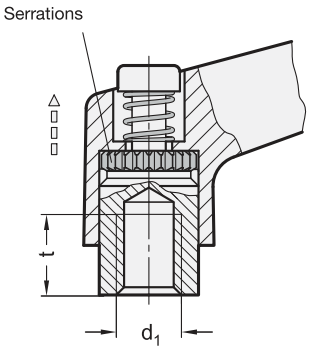
INFORMATION

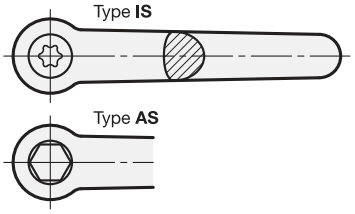
Adjustable hand levers GN 300.5 with full Stainless Steel-Handle, correspond to applications where „agressive" surrounding conditions are given, or where stainless steel materials are prescribed such as in food processing or chemical industry.
Retaining screws with hexagon head (Type AS) comply with the requirement "prevents water from accumulating".
Adjustable hand levers have proved to be ideal whenever parts have to be clamped in a confined space or in a particular lever position. The centre insert is connected to the lever via serrations which can easily be disengaged.
Pulling the lever, disengages the serrations and allowing it to be swivelled to the ideal clamping position. On releasing the lever the serrations automatically re-engage.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)







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GN 300.5 | Adjustable Stainless Steel-Hand levers

*Complete with types of the Hand levers (AS or IS)

AS External hexagon

IS Internal hexagon

GN 300.5-with threaded insert

STAINLESS STEEL

Description	l1	d1	d3	d4	h1	h2	h3	h4	t min.	⚖
GN 300.5-30-M3-*	30	M 3	10	13	24.5	4	31	3.5	7	28
GN 300.5-30-M4-*	30	M 4	10	13	24.5	4	31	3.5	8	28
GN 300.5-30-M5-*	30	M 5	10	13	24.5	4	31	3.5	8	27
GN 300.5-30-M6-*	30	M 6	10	13	24.5	4	31	3.5	8	26
GN 300.5-45-M4-*	45	M 4	10	13	24.5	4	34	3.5	8	35
GN 300.5-45-M5-*	45	M 5	10	13	24.5	4	34	3.5	8	34
GN 300.5-45-M6-*	45	M 6	10	13	24.5	4	34	3.5	8	33
GN 300.5-63-M6-*	63	M 6	13.5	17.5	31	6.5	45	4	11	77
GN 300.5-63-M8-*	63	M 8	13.5	17.5	31	6.5	45	4	11	76
GN 300.5-78-M8-*	78	M 8	16	21	36	8	54	4	14	124
GN 300.5-78-M10-*	78	M 10	16	21	36	8	54	4	14	120
GN 300.5-92-M10-*	92	M 10	19	24	43	11	64	4	17	185
GN 300.5-92-M12-*	92	M 12	19	24	43	11	64	4	17	179

GN 300.5-with threaded stud

STAINLESS STEEL

Description	l1	d1	l2	d3	d4	h1	h2	h3	h4	⚖
GN 300.5-30-M3-6-*	30	M 3	6	10	13	24.5	4	31	3.5	28
GN 300.5-30-M3-8-*	30	M 3	8	10	13	24.5	4	31	3.5	28
GN 300.5-30-M3-10-*	30	M 3	10	10	13	24.5	4	31	3.5	29
GN 300.5-30-M3-12-*	30	M 3	12	10	13	24.5	4	31	3.5	30
GN 300.5-30-M3-16-*	30	M 3	16	10	13	24.5	4	31	3.5	31
GN 300.5-30-M4-12-*	30	M 4	12	10	13	24.5	4	31	3.5	29
GN 300.5-30-M4-16-*	30	M 4	16	10	13	24.5	4	31	3.5	30
GN 300.5-30-M4-20-*	30	M 4	20	10	13	24.5	4	31	3.5	30
GN 300.5-30-M4-25-*	30	M 4	25	10	13	24.5	4	31	3.5	32
GN 300.5-30-M4-32-*	30	M 4	32	10	13	24.5	4	31	3.5	30
GN 300.5-30-M5-12-*	30	M 5	12	10	13	24.5	4	31	3.5	30
GN 300.5-30-M5-16-*	30	M 5	16	10	13	24.5	4	31	3.5	30
GN 300.5-30-M5-20-*	30	M 5	20	10	13	24.5	4	31	3.5	31
GN 300.5-30-M5-25-*	30	M 5	25	10	13	24.5	4	31	3.5	31
GN 300.5-30-M5-32-*	30	M 5	32	10	13	24.5	4	31	3.5	32
GN 300.5-30-M5-40-*	30	M 5	40	10	13	24.5	4	31	3.5	33
GN 300.5-30-M5-50-*	30	M 5	50	10	13	24.5	4	31	3.5	34
GN 300.5-30-M6-12-*	30	M 6	12	10	13	24.5	4	31	3.5	30
GN 300.5-30-M6-16-*	30	M 6	16	10	13	24.5	4	31	3.5	31
GN 300.5-30-M6-20-*	30	M 6	20	10	13	24.5	4	31	3.5	32
GN 300.5-30-M6-25-*	30	M 6	25	10	13	24.5	4	31	3.5	33
GN 300.5-30-M6-32-*	30	M 6	32	10	13	24.5	4	31	3.5	34
GN 300.5-30-M6-40-*	30	M 6	40	10	13	24.5	4	31	3.5	35
GN 300.5-30-M6-50-*	30	M 6	50	10	13	24.5	4	31	3.5	36
GN 300.5-45-M4-12-*	45	M 4	12	10	13	24.5	4	34	3.5	35
GN 300.5-45-M4-16-*	45	M 4	16	10	13	24.5	4	34	3.5	36
GN 300.5-45-M4-20-*	45	M 4	20	10	13	24.5	4	34	3.5	37
GN 300.5-45-M4-25-*	45	M 4	25	10	13	24.5	4	34	3.5	38
GN 300.5-45-M4-32-*	45	M 4	32	10	13	24.5	4	34	3.5	39
GN 300.5-45-M5-12-*	45	M 5	12	10	13	24.5	4	34	3.5	39
GN 300.5-45-M5-16-*	45	M 5	16	10	13	24.5	4	34	3.5	40
GN 300.5-45-M5-20-*	45	M 5	20	10	13	24.5	4	34	3.5	40
GN 300.5-45-M5-25-*	45	M 5	25	10	13	24.5	4	34	3.5	40

Weight type AS

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GN 300.5 | Adjustable Stainless Steel-Hand levers

*Complete with types of the Hand levers (AS or IS)

AS External hexagon

IS Internal hexagon

GN 300.5-with threaded stud

STAINLESS STEEL

Description	l1	d1	l2	d3	d4	h1	h2	h3	h4	⚖
GN 300.5-45-M5-32-*	45	M 5	32	10	13	24.5	4	34	3.5	39
GN 300.5-45-M5-40-*	45	M 5	40	10	13	24.5	4	34	3.5	40
GN 300.5-45-M5-50-*	45	M 5	50	10	13	24.5	4	34	3.5	44
GN 300.5-45-M6-12-*	45	M 6	12	10	13	24.5	4	34	3.5	37
GN 300.5-45-M6-16-*	45	M 6	16	10	13	24.5	4	34	3.5	38
GN 300.5-45-M6-20-*	45	M 6	20	10	13	24.5	4	34	3.5	39
GN 300.5-45-M6-25-*	45	M 6	25	10	13	24.5	4	34	3.5	40
GN 300.5-45-M6-32-*	45	M 6	32	10	13	24.5	4	34	3.5	41
GN 300.5-45-M6-40-*	45	M 6	40	10	13	24.5	4	34	3.5	42
GN 300.5-45-M6-50-*	45	M 6	50	10	13	24.5	4	34	3.5	44
GN 300.5-63-M6-16-*	63	M 6	16	13.5	17.5	31	6.5	45	4	81
GN 300.5-63-M6-20-*	63	M 6	20	13.5	17.5	31	6.5	45	4	82
GN 300.5-63-M6-25-*	63	M 6	25	13.5	17.5	31	6.5	45	4	83
GN 300.5-63-M6-32-*	63	M 6	32	13.5	17.5	31	6.5	45	4	84
GN 300.5-63-M6-40-*	63	M 6	40	13.5	17.5	31	6.5	45	4	86
GN 300.5-63-M6-50-*	63	M 6	50	13.5	17.5	31	6.5	45	4	88
GN 300.5-63-M6-63-*	63	M 6	63	13.5	17.5	31	6.5	45	4	90
GN 300.5-63-M8-16-*	63	M 8	16	13.5	17.5	31	6.5	45	4	85
GN 300.5-63-M8-20-*	63	M 8	20	13.5	17.5	31	6.5	45	4	86
GN 300.5-63-M8-25-*	63	M 8	25	13.5	17.5	31	6.5	45	4	88
GN 300.5-63-M8-32-*	63	M 8	32	13.5	17.5	31	6.5	45	4	90
GN 300.5-63-M8-40-*	63	M 8	40	13.5	17.5	31	6.5	45	4	92
GN 300.5-63-M8-50-*	63	M 8	50	13.5	17.5	31	6.5	45	4	95
GN 300.5-63-M8-63-*	63	M 8	63	13.5	17.5	31	6.5	45	4	100
GN 300.5-78-M8-20-*	78	M 8	20	16	21	36	8	54	4	138
GN 300.5-78-M8-25-*	78	M 8	25	16	21	36	8	54	4	139
GN 300.5-78-M8-32-*	78	M 8	32	16	21	36	8	54	4	140
GN 300.5-78-M8-40-*	78	M 8	40	16	21	36	8	54	4	141
GN 300.5-78-M8-50-*	78	M 8	50	16	21	36	8	54	4	144
GN 300.5-78-M8-63-*	78	M 8	63	16	21	36	8	54	4	149
GN 300.5-78-M8-80-*	78	M 8	80	16	21	36	8	54	4	158
GN 300.5-78-M10-20-*	78	M 10	20	16	21	36	8	54	4	140
GN 300.5-78-M10-25-*	78	M 10	25	16	21	36	8	54	4	141
GN 300.5-78-M10-32-*	78	M 10	32	16	21	36	8	54	4	143
GN 300.5-78-M10-40-*	78	M 10	40	16	21	36	8	54	4	150
GN 300.5-78-M10-50-*	78	M 10	50	16	21	36	8	54	4	155
GN 300.5-78-M10-63-*	78	M 10	63	16	21	36	8	54	4	162
GN 300.5-78-M10-80-*	78	M 10	80	16	21	36	8	54	4	167
GN 300.5-92-M10-20-*	92	M 10	20	19	24	43	11	64	4	203
GN 300.5-92-M10-25-*	92	M 10	25	19	24	43	11	64	4	206
GN 300.5-92-M10-32-*	92	M 10	32	19	24	43	11	64	4	210
GN 300.5-92-M10-40-*	92	M 10	40	19	24	43	11	64	4	214
GN 300.5-92-M10-50-*	92	M 10	50	19	24	43	11	64	4	220
GN 300.5-92-M10-63-*	92	M 10	63	19	24	43	11	64	4	226
GN 300.5-92-M10-80-*	92	M 10	80	19	24	43	11	64	4	230
GN 300.5-92-M12-20-*	92	M 12	20	19	24	43	11	64	4	210
GN 300.5-92-M12-25-*	92	M 12	25	19	24	43	11	64	4	216
GN 300.5-92-M12-32-*	92	M 12	32	19	24	43	11	64	4	221
GN 300.5-92-M12-40-*	92	M 12	40	19	24	43	11	64	4	223
GN 300.5-92-M12-50-*	92	M 12	50	19	24	43	11	64	4	234
GN 300.5-92-M12-63-*	92	M 12	63	19	24	43	11	64	4	243
GN 300.5-92-M12-80-*	92	M 12	80	19	24	43	11	64	4	251

Weight type AS

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Adjustable Stainless Steel-Hand levers

electropolished

SPECIFICATION

Types

- Type **AS**: with external hexagon
- Type **IS**: with internal hexalobular

Handle
Stainless Steel
Precision casting

- Stainless Steel AISI CF-8
- electropolished

Version with threaded insert

Threaded bush
Stainless Steel AISI 303

Retaining screw
Stainless Steel AISI 303

Spring
Stainless Steel AISI 301

Version with threaded stud

Threaded stud
Stainless Steel AISI 303

Retaining screw
Stainless Steel AISI 303

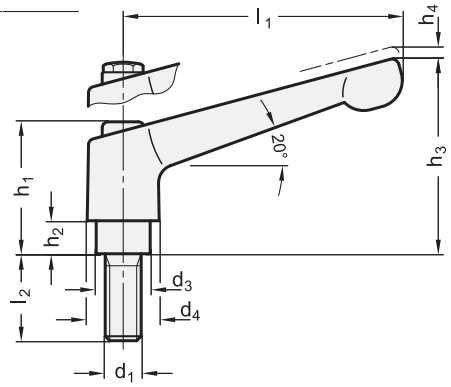
Spring
Stainless Steel AISI 301

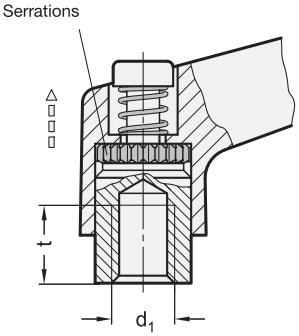
INFORMATION

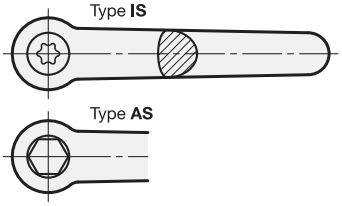
Adjustable hand levers GN 300.6 with full Stainless Steel-Handle, correspond to applications where „agressive" surrounding conditions are given, or where stainless steel materials are prescribed such as in food processing or chemical industry.
Retaining screws with hexagon head (Type AS) comply with the requirement "prevents water from accumulating".
Adjustable hand levers have proved to be ideal whenever parts have to be clamped in a confined space or in a particular lever position. The centre insert is connected to the lever via serrations which can easily be disengaged.
Pulling the lever, disengages the serrations and allowing it to be swivelled to the ideal clamping position. On releasing the lever the serrations automatically re-engage.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)







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GN 300.6 | Adjustable Stainless Steel-Hand levers

*Complete with types of the Hand levers (AS or IS)

AS External hexagon

IS Internal hexagon

GN 300.6-with threaded insert

STAINLESS STEEL

Description	l1	d1	d3	d4	h1	h2	h3	h4	t min.	⚖
GN 300.6-30-M3-*	30	M 3	10	13	24.5	4	31	3.5	7	28
GN 300.6-30-M4-*	30	M 4	10	13	24.5	4	31	3.5	8	28
GN 300.6-30-M5-*	30	M 5	10	13	24.5	4	31	3.5	8	27
GN 300.6-30-M6-*	30	M 6	10	13	24.5	4	31	3.5	8	26
GN 300.6-45-M4-*	45	M 4	10	13	24.5	4	34	3.5	8	35
GN 300.6-45-M5-*	45	M 5	10	13	24.5	4	34	3.5	8	34
GN 300.6-45-M6-*	45	M 6	10	13	24.5	4	34	3.5	8	33
GN 300.6-63-M6-*	63	M 6	13.5	17.5	31	6.5	45	4	11	77
GN 300.6-63-M8-*	63	M 8	13.5	17.5	31	6.5	45	4	11	76
GN 300.6-78-M8-*	78	M 8	16	21	36	8	54	4	14	124
GN 300.6-78-M10-*	78	M 10	16	21	36	8	54	4	14	120
GN 300.6-92-M10-*	92	M 10	19	24	43	11	64	4	17	185
GN 300.6-92-M12-*	92	M 12	19	24	43	11	64	4	17	179

GN 300.6-with threaded stud

STAINLESS STEEL

Description	l1	d1	l2	d3	d4	h1	h2	h3	h4	⚖
GN 300.6-30-M3-6-*	30	M 3	6	10	13	24.5	4	31	3.5	28
GN 300.6-30-M3-8-*	30	M 3	8	10	13	24.5	4	31	3.5	28
GN 300.6-30-M3-10-*	30	M 3	10	10	13	24.5	4	31	3.5	30
GN 300.6-30-M3-12-*	30	M 3	12	10	13	24.5	4	31	3.5	31
GN 300.6-30-M3-16-*	30	M 3	16	10	13	24.5	4	31	3.5	103
GN 300.6-30-M4-12-*	30	M 4	12	10	13	24.5	4	31	3.5	29
GN 300.6-30-M4-16-*	30	M 4	16	10	13	24.5	4	31	3.5	30
GN 300.6-30-M4-20-*	30	M 4	20	10	13	24.5	4	31	3.5	30
GN 300.6-30-M4-25-*	30	M 4	25	10	13	24.5	4	31	3.5	31
GN 300.6-30-M4-32-*	30	M 4	32	10	13	24.5	4	31	3.5	32
GN 300.6-30-M5-12-*	30	M 5	12	10	13	24.5	4	31	3.5	30
GN 300.6-30-M5-16-*	30	M 5	16	10	13	24.5	4	31	3.5	30
GN 300.6-30-M5-20-*	30	M 5	20	10	13	24.5	4	31	3.5	31
GN 300.6-30-M5-25-*	30	M 5	25	10	13	24.5	4	31	3.5	31
GN 300.6-30-M5-32-*	30	M 5	32	10	13	24.5	4	31	3.5	32
GN 300.6-30-M5-40-*	30	M 5	40	10	13	24.5	4	31	3.5	33
GN 300.6-30-M5-50-*	30	M 5	50	10	13	24.5	4	31	3.5	34
GN 300.6-30-M6-12-*	30	M 6	12	10	13	24.5	4	31	3.5	30
GN 300.6-30-M6-16-*	30	M 6	16	10	13	24.5	4	31	3.5	31
GN 300.6-30-M6-20-*	30	M 6	20	10	13	24.5	4	31	3.5	32
GN 300.6-30-M6-25-*	30	M 6	25	10	13	24.5	4	31	3.5	33
GN 300.6-30-M6-32-*	30	M 6	32	10	13	24.5	4	31	3.5	34
GN 300.6-30-M6-40-*	30	M 6	40	10	13	24.5	4	31	3.5	35
GN 300.6-30-M6-50-*	30	M 6	50	10	13	24.5	4	31	3.5	36
GN 300.6-45-M4-12-*	45	M 4	12	10	13	24.5	4	34	3.5	39
GN 300.6-45-M4-16-*	45	M 4	16	10	13	24.5	4	34	3.5	36
GN 300.6-45-M4-20-*	45	M 4	20	10	13	24.5	4	34	3.5	37
GN 300.6-45-M4-25-*	45	M 4	25	10	13	24.5	4	34	3.5	38
GN 300.6-45-M4-32-*	45	M 4	32	10	13	24.5	4	34	3.5	40
GN 300.6-45-M5-12-*	45	M 5	12	10	13	24.5	4	34	3.5	36
GN 300.6-45-M5-16-*	45	M 5	16	10	13	24.5	4	34	3.5	40
GN 300.6-45-M5-20-*	45	M 5	20	10	13	24.5	4	34	3.5	40
GN 300.6-45-M5-25-*	45	M 5	25	10	13	24.5	4	34	3.5	40

Weight type AS

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GN 300.6 | Adjustable Stainless Steel-Hand levers

*Complete with types of the Hand levers (AS or IS)

AS External hexagon

IS Internal hexagon

GN 300.6-with threaded stud — **STAINLESS STEEL**

Description	l1	d1	l2	d3	d4	h1	h2	h3	h4	⚖
GN 300.6-45-M5-32-*	45	M 5	32	10	13	24.5	4	34	3.5	39
GN 300.6-45-M5-40-*	45	M 5	40	10	13	24.5	4	34	3.5	40
GN 300.6-45-M5-50-*	45	M 5	50	10	13	24.5	4	34	3.5	44
GN 300.6-45-M6-12-*	45	M 6	12	10	13	24.5	4	34	3.5	37
GN 300.6-45-M6-16-*	45	M 6	16	10	13	24.5	4	34	3.5	38
GN 300.6-45-M6-20-*	45	M 6	20	10	13	24.5	4	34	3.5	39
GN 300.6-45-M6-25-*	45	M 6	25	10	13	24.5	4	34	3.5	40
GN 300.6-45-M6-32-*	45	M 6	32	10	13	24.5	4	34	3.5	41
GN 300.6-45-M6-40-*	45	M 6	40	10	13	24.5	4	34	3.5	42
GN 300.6-45-M6-50-*	45	M 6	50	10	13	24.5	4	34	3.5	44
GN 300.6-63-M6-16-*	63	M 6	16	13.5	17.5	31	6.5	45	4	81
GN 300.6-63-M6-20-*	63	M 6	20	13.5	17.5	31	6.5	45	4	82
GN 300.6-63-M6-25-*	63	M 6	25	13.5	17.5	31	6.5	45	4	83
GN 300.6-63-M6-32-*	63	M 6	32	13.5	17.5	31	6.5	45	4	84
GN 300.6-63-M6-40-*	63	M 6	40	13.5	17.5	31	6.5	45	4	80
GN 300.6-63-M6-50-*	63	M 6	50	13.5	17.5	31	6.5	45	4	88
GN 300.6-63-M6-63-*	63	M 6	63	13.5	17.5	31	6.5	45	4	90
GN 300.6-63-M8-16-*	63	M 8	16	13.5	17.5	31	6.5	45	4	85
GN 300.6-63-M8-20-*	63	M 8	20	13.5	17.5	31	6.5	45	4	86
GN 300.6-63-M8-25-*	63	M 8	25	13.5	17.5	31	6.5	45	4	88
GN 300.6-63-M8-32-*	63	M 8	32	13.5	17.5	31	6.5	45	4	90
GN 300.6-63-M8-40-*	63	M 8	40	13.5	17.5	31	6.5	45	4	92
GN 300.6-63-M8-50-*	63	M 8	50	13.5	17.5	31	6.5	45	4	95
GN 300.6-63-M8-63-*	63	M 8	63	13.5	17.5	31	6.5	45	4	100
GN 300.6-78-M8-20-*	78	M 8	20	16	21	36	8	54	4	138
GN 300.6-78-M8-25-*	78	M 8	25	16	21	36	8	54	4	139
GN 300.6-78-M8-32-*	78	M 8	32	16	21	36	8	54	4	140
GN 300.6-78-M8-40-*	78	M 8	40	16	21	36	8	54	4	141
GN 300.6-78-M8-50-*	78	M 8	50	16	21	36	8	54	4	144
GN 300.6-78-M8-63-*	78	M 8	63	16	21	36	8	54	4	149
GN 300.6-78-M8-80-*	78	M 8	80	16	21	36	8	54	4	158
GN 300.6-78-M10-20-*	78	M 10	20	16	21	36	8	54	4	140
GN 300.6-78-M10-25-*	78	M 10	25	16	21	36	8	54	4	141
GN 300.6-78-M10-32-*	78	M 10	32	16	21	36	8	54	4	143
GN 300.6-78-M10-40-*	78	M 10	40	16	21	36	8	54	4	150
GN 300.6-78-M10-50-*	78	M 10	50	16	21	36	8	54	4	155
GN 300.6-78-M10-63-*	78	M 10	63	16	21	36	8	54	4	162
GN 300.6-78-M10-80-*	78	M 10	80	16	21	36	8	54	4	167
GN 300.6-92-M10-20-*	92	M 10	20	19	24	43	11	64	4	203
GN 300.6-92-M10-25-*	92	M 10	25	19	24	43	11	64	4	206
GN 300.6-92-M10-32-*	92	M 10	32	19	24	43	11	64	4	210
GN 300.6-92-M10-40-*	92	M 10	40	19	24	43	11	64	4	214
GN 300.6-92-M10-50-*	92	M 10	50	19	24	43	11	64	4	220
GN 300.6-92-M10-63-*	92	M 10	63	19	24	43	11	64	4	226
GN 300.6-92-M10-80-*	92	M 10	80	19	24	43	11	64	4	230
GN 300.6-92-M12-20-*	92	M 12	20	19	24	43	11	64	4	210
GN 300.6-92-M12-25-*	92	M 12	25	19	24	43	11	64	4	216
GN 300.6-92-M12-32-*	92	M 12	32	19	24	43	11	64	4	221
GN 300.6-92-M12-40-*	92	M 12	40	19	24	43	11	64	4	223
GN 300.6-92-M12-50-*	92	M 12	50	19	24	43	11	64	4	234
GN 300.6-92-M12-63-*	92	M 12	63	19	24	43	11	64	4	243
GN 300.6-92-M12-80-*	92	M 12	80	19	24	43	11	64	4	251

Weight type AS

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GN 300.4

Adjustable hand levers

Zinc die casting / with increased clamping force

SPECIFICATION

Handle
Zinc die casting

plastic coated
black, RAL 9005, textured finish **SW**
black, RAL 9011, silk finish **SZ**
orange, RAL 2004, textured finish **OS**
red, RAL 3000, textured finish **RS**
silver, RAL 9006, textured finish **SR**

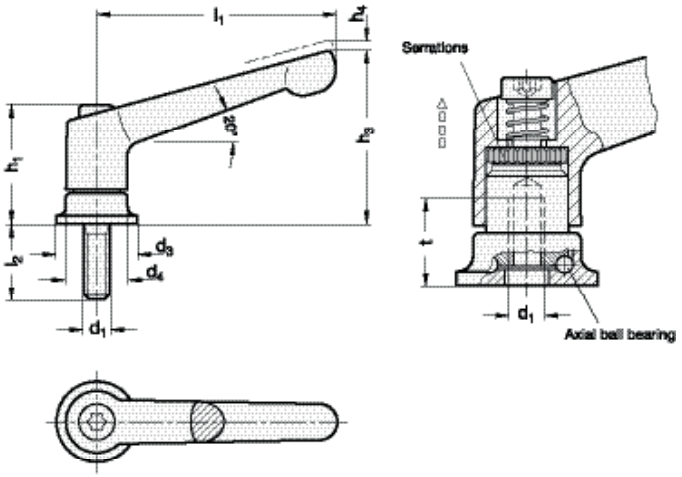
chrome-plated **CR**

Version with threaded insert
Steel, tensile strength class 5.8
nitrided, blackened

Retaining screw
Steel, blackend

Version with threaded stud
Steel, tensile strength class 5.8
nitrided, blackened

Retaining screw
Steel, blackened



INFORMATION

Adjustable hand levers GN 300.4 are produced with a clamping area which is linked via a thrust ball bearing to the bush and screw respectively of the clamping lever. This has led to the following advantages:
- **Doubled** clamping force through vastly reduced friction.
- There is no movement on the contact area between adjustable hand lever and component which greatly reduces any marking on the clamping area
- In addition a reduced creep factor has been achieved by the increased preload.

* Complete with colour index of the clamping lever body (SW, SZ, OS, RS, SR or CR)

SW	SZ	OS	RS	SR	CR
RAL9005	RAL9011	RAL2004	RAL3000	RAL9006	chrome-plated

GN 300.4-with threaded insert

Description	l1	d1	d3	d4	h1	h3	h4	t min.	⚖
GN 300.4-63-M6-*	63	M 6	24	17.5	34.5	48.5	4	12.5	95
GN 300.4-78-M8-*	78	M 8	25	21	39.5	58.5	4	14	140
GN 300.4-92-M10-*	92	M 10	30	24	46.5	68.5	4	18	216
GN 300.4-108-M12-*	108	M 12	35	30	56.5	82	5	26.5	356

GN 300.4-with threaded stud

Description	l1	d1	l2	d3	d4	h1	h3	h4	⚖
GN 300.4-63-M6-20-*	63	M 6	20	24	17.5	34.5	48.5	4	100
GN 300.4-63-M6-27-*	63	M 6	27	24	17.5	34.5	48.5	4	103
GN 300.4-78-M8-21-*	78	M 8	21	25	21	39.5	58.5	4	160
GN 300.4-78-M8-36-*	78	M 8	36	25	21	39.5	58.5	4	170
GN 300.4-92-M10-29-*	92	M 10	29	30	24	46.5	68.5	4	220
GN 300.4-92-M10-47-*	92	M 10	47	30	24	46.5	68.5	4	223
GN 300.4-108-M12-34-*	108	M 12	34	35	30	56.5	82	5	218
GN 300.4-108-M12-50-*	108	M 12	50	35	30	56.5	82	5	382
GN 300.4-108-M12-57-*	108	M 12	57	35	30	56.5	82	5	389
GN 300.4-108-M12-65-*	108	M 12	65	35	30	56.5	82	5	397
GN 300.4-108-M12-85-*	108	M 12	85	35	30	56.5	82	5	417

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Adjustable hand levers

with push button / Zinc die casting, Bushing / Threaded bolt Steel

SPECIFICATION

Handle
Zinc die casting

plastic coated
black, RAL 9005
textured finish **SW**

Releasing button
Plastic
black, RAL 9005 **S**
orange, RAL 2004 **O**
grey, RAL 7035 **G**

Pin for releasing button
Stainless Steel

Version with threaded insert

Steel, blackened

Version with threaded stud

Steel, blackened

ON REQUEST

Adjustable hand levers GN 303 are ideal whenever parts have to be clamped in a confined space or in a particular lever position. The centre insert is connected to the lever via serrations which can easily be dis-engaged.
The releasing button is a design element that offers an easy disengagement. Its use is limited to applications where dismantling of the lever for installation is not required.

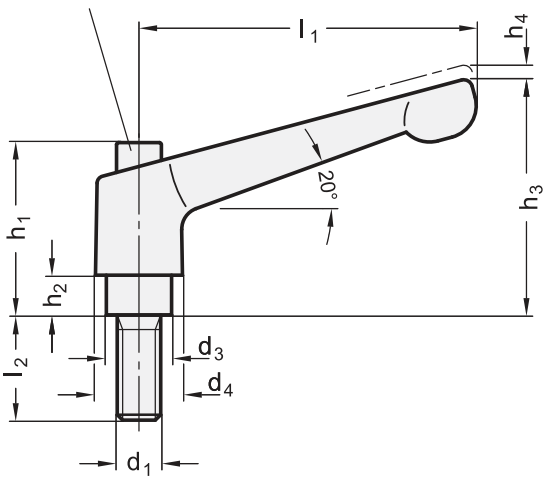
ON REQUEST

- Handle in colours of GN 300 (see page 320)

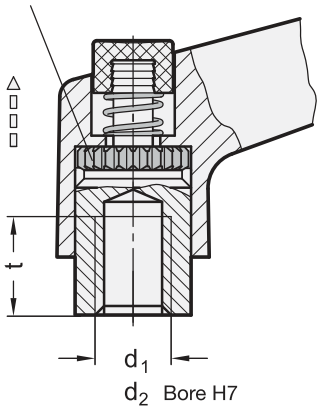
TECHNICAL INFORMATION

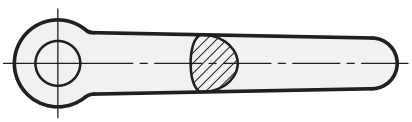
- ISO-Fundamental Tolerances (see page A21)

Push-button



Serrations





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GN 303 | Adjustable hand levers

* Complete with colour index of the Push button (S, O or G)

S RAL9005 O RAL2004 G RAL 7035

GN 303-with threaded insert

Description	l1	d1	d2 H7	d3	d4	h1	h2	h3	h4	t min.	⚖
GN 303-30-B5-SW-*	30	-	B 5	10	13	26.5	4	31	3.5	9	26
GN 303-30-B6-SW-*	30	-	B 6	10	13	26.5	4	31	3.5	9	26
GN 303-30-M3-SW-*	30	M 3	-	10	13	26.5	4	31	3.5	7	26
GN 303-30-M4-SW-*	30	M 4	-	10	13	26.5	4	31	3.5	9	26
GN 303-30-M5-SW-*	30	M 5	-	10	13	26.5	4	31	3.5	9	26
GN 303-30-M6-SW-*	30	M 6	-	10	13	26.5	4	31	3.5	9	25
GN 303-45-B5-SW-*	45	-	B 5	10	13	26.5	4	35	3.5	9	32
GN 303-45-B6-SW-*	45	-	B 6	10	13	26.5	4	35	3.5	9	32
GN 303-45-M4-SW-*	45	M 4	-	10	13	26.5	4	35	3.5	9	32
GN 303-45-M5-SW-*	45	M 5	-	10	13	26.5	4	35	3.5	9	32
GN 303-45-M6-SW-*	45	M 6	-	10	13	26.5	4	35	3.5	9	32
GN 303-63-B8-SW-*	63	-	B 8	13.5	17.5	32.5	6.5	45	4	11	72
GN 303-63-M6-SW-*	63	M 6	-	13.5	17.5	32.5	6.5	45	4	11	75
GN 303-63-M8-SW-*	63	M 8	-	13.5	17.5	32.5	6.5	45	4	11	72
GN 303-78-B8-SW-*	78	-	B 8	16	21	37.5	8	55	4	14	119
GN 303-78-B10-SW-*	78	-	B 10	16	21	37.5	8	55	4	14	115
GN 303-78-M8-SW-*	78	M 8	-	16	21	37.5	8	55	4	14	120
GN 303-78-M10-SW-*	78	M 10	-	16	21	37.5	8	55	4	14	118

GN 303-with threaded stud

Description	l1	d1	l2	d3	d4	h1	h2	h3	h4	⚖
GN 303-30-M3-6-SW-*	30	M 3	6	10	13	26.5	4	31	3.5	27
GN 303-30-M3-8-SW-*	30	M 3	8	10	13	26.5	4	31	3.5	27
GN 303-30-M3-10-SW-*	30	M 3	10	10	13	26.5	4	31	3.5	27
GN 303-30-M3-12-SW-*	30	M 3	12	10	13	26.5	4	31	3.5	28
GN 303-30-M3-16-SW-*	30	M 3	16	10	13	26.5	4	31	3.5	28
GN 303-30-M4-12-SW-*	30	M 4	12	10	13	26.5	4	31	3.5	28
GN 303-30-M4-16-SW-*	30	M 4	16	10	13	26.5	4	31	3.5	28
GN 303-30-M4-20-SW-*	30	M 4	20	10	13	26.5	4	31	3.5	28
GN 303-30-M4-25-SW-*	30	M 4	25	10	13	26.5	4	31	3.5	29
GN 303-30-M4-32-SW-*	30	M 4	32	10	13	26.5	4	31	3.5	29
GN 303-30-M5-12-SW-*	30	M 5	12	10	13	26.5	4	31	3.5	29
GN 303-30-M5-16-SW-*	30	M 5	16	10	13	26.5	4	31	3.5	29
GN 303-30-M5-20-SW-*	30	M 5	20	10	13	26.5	4	31	3.5	29
GN 303-30-M5-25-SW-*	30	M 5	25	10	13	26.5	4	31	3.5	30
GN 303-30-M5-32-SW-*	30	M 5	32	10	13	26.5	4	31	3.5	31
GN 303-30-M5-40-SW-*	30	M 5	40	10	13	26.5	4	31	3.5	33
GN 303-30-M5-50-SW-*	30	M 5	50	10	13	26.5	4	31	3.5	33
GN 303-30-M6-12-SW-*	30	M 6	12	10	13	26.5	4	31	3.5	37
GN 303-30-M6-16-SW-*	30	M 6	16	10	13	26.5	4	31	3.5	38
GN 303-30-M6-20-SW-*	30	M 6	20	10	13	26.5	4	31	3.5	39
GN 303-30-M6-25-SW-*	30	M 6	25	10	13	26.5	4	31	3.5	40
GN 303-30-M6-32-SW-*	30	M 6	32	10	13	26.5	4	31	3.5	41
GN 303-30-M6-40-SW-*	30	M 6	40	10	13	26.5	4	31	3.5	42
GN 303-30-M6-50-SW-*	30	M 6	50	10	13	26.5	4	31	3.5	42
GN 303-45-M4-12-SW-*	45	M 4	12	10	13	26.5	4	35	3.5	35
GN 303-45-M4-16-SW-*	45	M 4	16	10	13	26.5	4	35	3.5	35
GN 303-45-M4-20-SW-*	45	M 4	20	10	13	26.5	4	35	3.5	35
GN 303-45-M4-25-SW-*	45	M 4	25	10	13	26.5	4	35	3.5	36
GN 303-45-M4-32-SW-*	45	M 4	32	10	13	26.5	4	35	3.5	36
GN 303-45-M5-12-SW-*	45	M 5	12	10	13	26.5	4	35	3.5	35
GN 303-45-M5-16-SW-*	45	M 5	16	10	13	26.5	4	35	3.5	36
GN 303-45-M5-20-SW-*	45	M 5	20	10	13	26.5	4	35	3.5	36
GN 303-45-M5-25-SW-*	45	M 5	25	10	13	26.5	4	35	3.5	37

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GN 303 | Adjustable hand levers

* Complete with colour index of the Push button (S, O or G)

S RAL9005 | O RAL2004 | G RAL 7035

GN 303-with threaded stud

Description	l1	d1	l2	d3	d4	h1	h2	h3	h4	⚖
GN 303-45-M5-32-SW-*	45	M 5	32	10	13	26.5	4	35	3.5	38
GN 303-45-M5-40-SW-*	45	M 5	40	10	13	26.5	4	35	3.5	39
GN 303-45-M5-50-SW-*	45	M 5	50	10	13	26.5	4	35	3.5	40
GN 303-45-M6-12-SW-*	45	M 6	12	10	13	26.5	4	35	3.5	36
GN 303-45-M6-16-SW-*	45	M 6	16	10	13	26.5	4	35	3.5	37
GN 303-45-M6-20-SW-*	45	M 6	20	10	13	26.5	4	35	3.5	37
GN 303-45-M6-25-SW-*	45	M 6	25	10	13	26.5	4	35	3.5	38
GN 303-45-M6-32-SW-*	45	M 6	32	10	13	26.5	4	35	3.5	40
GN 303-45-M6-40-SW-*	45	M 6	40	10	13	26.5	4	35	3.5	41
GN 303-45-M6-50-SW-*	45	M 6	50	10	13	26.5	4	35	3.5	42
GN 303-63-M6-12-SW-*	63	M 6	12	13.5	17.5	32.5	6.5	45	4	80
GN 303-63-M6-16-SW-*	63	M 6	16	13.5	17.5	32.5	6.5	45	4	80
GN 303-63-M6-20-SW-*	63	M 6	20	13.5	17.5	32.5	6.5	45	4	80
GN 303-63-M6-25-SW-*	63	M 6	25	13.5	17.5	32.5	6.5	45	4	82
GN 303-63-M6-32-SW-*	63	M 6	32	13.5	17.5	32.5	6.5	45	4	82
GN 303-63-M6-40-SW-*	63	M 6	40	13.5	17.5	32.5	6.5	45	4	84
GN 303-63-M6-50-SW-*	63	M 6	50	13.5	17.5	32.5	6.5	45	4	85
GN 303-63-M6-63-SW-*	63	M 6	63	13.5	17.5	32.5	6.5	45	4	87
GN 303-63-M8-12-SW-*	63	M 8	12	13.5	17.5	32.5	6.5	45	4	81
GN 303-63-M8-16-SW-*	63	M 8	16	13.5	17.5	32.5	6.5	45	4	82
GN 303-63-M8-20-SW-*	63	M 8	20	13.5	17.5	32.5	6.5	45	4	75
GN 303-63-M8-25-SW-*	63	M 8	25	13.5	17.5	32.5	6.5	45	4	85
GN 303-63-M8-32-SW-*	63	M 8	32	13.5	17.5	32.5	6.5	45	4	87
GN 303-63-M8-40-SW-*	63	M 8	40	13.5	17.5	32.5	6.5	45	4	89
GN 303-63-M8-50-SW-*	63	M 8	50	13.5	17.5	32.5	6.5	45	4	93
GN 303-63-M8-63-SW-*	63	M 8	63	13.5	17.5	32.5	6.5	45	4	96
GN 303-63-M10-20-SW-*	63	M 10	20	13.5	17.5	32.5	6.5	45	4	87
GN 303-63-M10-25-SW-*	63	M 10	25	13.5	17.5	32.5	6.5	45	4	89
GN 303-63-M10-32-SW-*	63	M 10	32	13.5	17.5	32.5	6.5	45	4	92
GN 303-63-M10-40-SW-*	63	M 10	40	13.5	17.5	32.5	6.5	45	4	97
GN 303-63-M10-50-SW-*	63	M 10	50	13.5	17.5	32.5	6.5	45	4	102
GN 303-63-M10-63-SW-*	63	M 10	63	13.5	17.5	32.5	6.5	45	4	108
GN 303-63-M10-80-SW-*	63	M 10	80	13.5	17.5	32.5	6.5	45	4	117
GN 303-78-M8-16-SW-*	78	M 8	16	16	21	37.5	8	55	4	122
GN 303-78-M8-20-SW-*	78	M 8	20	16	21	37.5	8	55	4	122
GN 303-78-M8-25-SW-*	78	M 8	25	16	21	37.5	8	55	4	124
GN 303-78-M8-32-SW-*	78	M 8	32	16	21	37.5	8	55	4	127
GN 303-78-M8-40-SW-*	78	M 8	40	16	21	37.5	8	55	4	131
GN 303-78-M8-50-SW-*	78	M 8	50	16	21	37.5	8	55	4	134
GN 303-78-M8-63-SW-*	78	M 8	63	16	21	37.5	8	55	4	140
GN 303-78-M8-80-SW-*	78	M 8	80	16	21	37.5	8	55	4	143
GN 303-78-M10-16-SW-*	78	M 10	16	16	21	37.5	8	55	4	133
GN 303-78-M10-20-SW-*	78	M 10	20	16	21	37.5	8	55	4	135
GN 303-78-M10-25-SW-*	78	M 10	25	16	21	37.5	8	55	4	138
GN 303-78-M10-32-SW-*	78	M 10	32	16	21	37.5	8	55	4	141
GN 303-78-M10-40-SW-*	78	M 10	40	16	21	37.5	8	55	4	152
GN 303-78-M10-50-SW-*	78	M 10	50	16	21	37.5	8	55	4	152
GN 303-78-M10-63-SW-*	78	M 10	63	16	21	37.5	8	55	4	158
GN 303-78-M10-80-SW-*	78	M 10	80	16	21	37.5	8	55	4	166
GN 303-78-M12-25-SW-*	78	M 12	25	16	21	37.5	8	55	4	143
GN 303-78-M12-32-SW-*	78	M 12	32	16	21	37.5	8	55	4	148
GN 303-78-M12-40-SW-*	78	M 12	40	16	21	37.5	8	55	4	155
GN 303-78-M12-50-SW-*	78	M 12	50	16	21	37.5	8	55	4	169
GN 303-78-M12-63-SW-*	78	M 12	63	16	21	37.5	8	55	4	171
GN 303-78-M12-80-SW-*	78	M 12	80	16	21	37.5	8	55	4	174

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GN 303.1

Adjustable hand levers

with push button/ Zinc die casting, Bushing / Threaded bolt Stainless Steel

SPECIFICATION

Handle
Zinc die casting

plastic coated
black, RAL 9005, textured finish **SW**

Releasing button
Plastic
black, RAL 9005 **S**
orange, RAL 2004 **O**
grey, RAL 7035 **G**

Pin for releasing button
Stainless Steel

Version with threaded insert

Stainless Steel AISI 303

Version with threaded stud

Stainless Steel AISI 303

INFORMATION

Adjustable hand levers GN 303.1 are ideal whenever parts have to be clamped in a confined space or in a particular lever position. The centre insert is connected to the lever via serrations which can easily be dis-engaged.
The releasing button is a design element that offers an easy disengagement. Its use is limited to applications where dismantling of the lever for installation is not required.

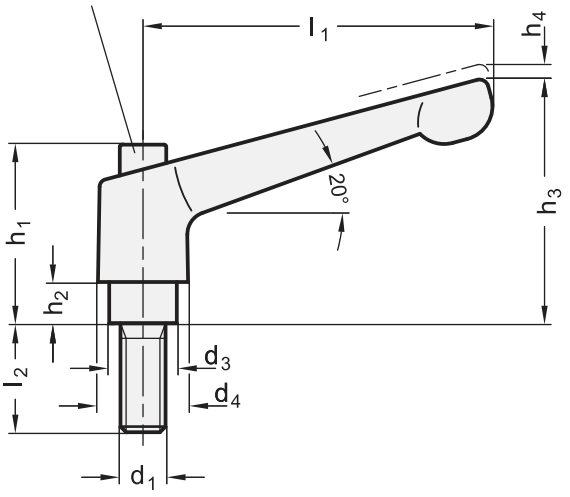
ON REQUEST

- Handle in colours of GN 300 (see page 320)

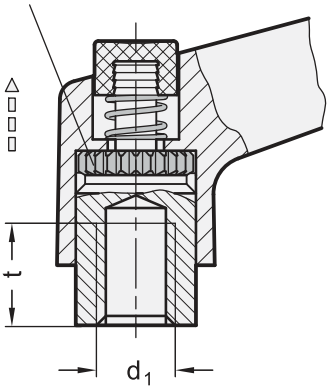
TECHNICAL INFORMATION

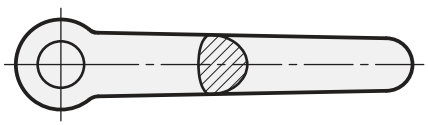
- ISO-Fundamental Tolerances (see page A21)

Push-button



Serrations





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GN 303.1 | Adjustable hand levers

* Complete with colour index of the Push button (S, O or G)

S RAL9005 O RAL2004 G RAL 7035

GN 303.1-with threaded insert

Description	l1	d1	d3	d4	h1	h2	h3	h4	t min.	⚖
GN 303.1-30-M3-SW-*	30	M 3	10	13	26.5	4	31	3.5	7	30
GN 303.1-30-M4-SW-*	30	M 4	10	13	26.5	4	31	3.5	8	26
GN 303.1-30-M5-SW-*	30	M 5	10	13	26.5	4	31	3.5	8	20
GN 303.1-30-M6-SW-*	30	M 6	10	13	26.5	4	31	3.5	8	20
GN 303.1-45-M4-SW-*	45	M 4	10	13	26.5	4	35	3.5	8	38
GN 303.1-45-M5-SW-*	45	M 5	10	13	26.5	4	35	3.5	8	36
GN 303.1-45-M6-SW-*	45	M 6	10	13	26.5	4	35	3.5	8	34
GN 303.1-63-M6-SW-*	63	M 6	13.5	17.5	32.5	6.5	45	4	11	80
GN 303.1-63-M8-SW-*	63	M 8	13.5	17.5	32.5	6.5	45	4	11	73
GN 303.1-78-M8-SW-*	78	M 8	16	21	37.5	8	55	4	14	120
GN 303.1-78-M10-SW-*	78	M 10	16	21	37.5	8	55	4	14	110

GN 303.1-with threaded stud

Description	l1	d1	l2	d3	d4	h1	h2	h3	h4	⚖
GN 303.1-30-M3-6-SW-*	30	M 3	6	10	13	26.5	4	31	3.5	106
GN 303.1-30-M3-8-SW-*	30	M 3	8	10	13	26.5	4	31	3.5	104
GN 303.1-30-M3-10-SW-*	30	M 3	10	10	13	26.5	4	31	3.5	102
GN 303.1-30-M3-12-SW-*	30	M 3	12	10	13	26.5	4	31	3.5	102
GN 303.1-30-M3-16-SW-*	30	M 3	16	10	13	26.5	4	31	3.5	102
GN 303.1-30-M4-12-SW-*	30	M 4	12	10	13	26.5	4	31	3.5	30
GN 303.1-30-M4-16-SW-*	30	M 4	16	10	13	26.5	4	31	3.5	28
GN 303.1-30-M4-20-SW-*	30	M 4	20	10	13	26.5	4	31	3.5	28
GN 303.1-30-M4-25-SW-*	30	M 4	25	10	13	26.5	4	31	3.5	28
GN 303.1-30-M4-32-SW-*	30	M 4	32	10	13	26.5	4	31	3.5	28
GN 303.1-30-M5-12-SW-*	30	M 5	12	10	13	26.5	4	31	3.5	30
GN 303.1-30-M5-16-SW-*	30	M 5	16	10	13	26.5	4	31	3.5	32
GN 303.1-30-M5-20-SW-*	30	M 5	20	10	13	26.5	4	31	3.5	32
GN 303.1-30-M5-25-SW-*	30	M 5	25	10	13	26.5	4	31	3.5	33
GN 303.1-30-M5-32-SW-*	30	M 5	32	10	13	26.5	4	31	3.5	33
GN 303.1-30-M5-40-SW-*	30	M 5	40	10	13	26.5	4	31	3.5	35
GN 303.1-30-M5-50-SW-*	30	M 5	50	10	13	26.5	4	31	3.5	35
GN 303.1-30-M6-12-SW-*	30	M 6	12	10	13	26.5	4	31	3.5	20
GN 303.1-30-M6-16-SW-*	30	M 6	16	10	13	26.5	4	31	3.5	30
GN 303.1-30-M6-20-SW-*	30	M 6	20	10	13	26.5	4	31	3.5	30
GN 303.1-30-M6-25-SW-*	30	M 6	25	10	13	26.5	4	31	3.5	34
GN 303.1-30-M6-32-SW-*	30	M 6	32	10	13	26.5	4	31	3.5	34
GN 303.1-30-M6-40-SW-*	30	M 6	40	10	13	26.5	4	31	3.5	37
GN 303.1-30-M6-50-SW-*	30	M 6	50	10	13	26.5	4	31	3.5	40
GN 303.1-45-M4-12-SW-*	45	M 4	12	10	13	26.5	4	35	3.5	39
GN 303.1-45-M4-16-SW-*	45	M 4	16	10	13	26.5	4	35	3.5	39
GN 303.1-45-M4-20-SW-*	45	M 4	20	10	13	26.5	4	35	3.5	39
GN 303.1-45-M4-25-SW-*	45	M 4	25	10	13	26.5	4	35	3.5	40
GN 303.1-45-M4-32-SW-*	45	M 4	32	10	13	26.5	4	35	3.5	40
GN 303.1-45-M5-12-SW-*	45	M 5	12	10	13	26.5	4	35	3.5	36
GN 303.1-45-M5-16-SW-*	45	M 5	16	10	13	26.5	4	35	3.5	40

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GN 303.1 | Adjustable hand levers

* Complete with colour index of the Push button (S, O or G)

S RAL9005 O RAL2004 G RAL 7035

GN 303.1-with threaded stud

Description	l1	d1	l2	d3	d4	h1	h2	h3	h4	⚖
GN 303.1-45-M5-20-SW-*	45	M 5	20	10	13	26.5	4	35	3.5	40
GN 303.1-45-M5-25-SW-*	45	M 5	25	10	13	26.5	4	35	3.5	40
GN 303.1-45-M5-32-SW-*	45	M 5	32	10	13	26.5	4	35	3.5	40
GN 303.1-45-M5-40-SW-*	45	M 5	40	10	13	26.5	4	35	3.5	40
GN 303.1-45-M5-50-SW-*	45	M 5	50	10	13	26.5	4	35	3.5	40
GN 303.1-45-M6-12-SW-*	45	M 6	12	10	13	26.5	4	35	3.5	40
GN 303.1-45-M6-16-SW-*	45	M 6	16	10	13	26.5	4	35	3.5	40
GN 303.1-45-M6-20-SW-*	45	M 6	20	10	13	26.5	4	35	3.5	40
GN 303.1-45-M6-25-SW-*	45	M 6	25	10	13	26.5	4	35	3.5	40
GN 303.1-45-M6-32-SW-*	45	M 6	32	10	13	26.5	4	35	3.5	40
GN 303.1-45-M6-40-SW-*	45	M 6	40	10	13	26.5	4	35	3.5	40
GN 303.1-45-M6-50-SW-*	45	M 6	50	10	13	26.5	4	35	3.5	43
GN 303.1-63-M6-12-SW-*	63	M 6	12	13.5	17.5	32.5	6.5	45	4	83
GN 303.1-63-M6-16-SW-*	63	M 6	16	13.5	17.5	32.5	6.5	45	4	84
GN 303.1-63-M6-20-SW-*	63	M 6	20	13.5	17.5	32.5	6.5	45	4	84
GN 303.1-63-M6-25-SW-*	63	M 6	25	13.5	17.5	32.5	6.5	45	4	86
GN 303.1-63-M6-32-SW-*	63	M 6	32	13.5	17.5	32.5	6.5	45	4	87
GN 303.1-63-M6-40-SW-*	63	M 6	40	13.5	17.5	32.5	6.5	45	4	89
GN 303.1-63-M6-50-SW-*	63	M 6	50	13.5	17.5	32.5	6.5	45	4	90
GN 303.1-63-M6-63-SW-*	63	M 6	63	13.5	17.5	32.5	6.5	45	4	92
GN 303.1-63-M8-12-SW-*	63	M 8	12	13.5	17.5	32.5	6.5	45	4	80
GN 303.1-63-M8-16-SW-*	63	M 8	16	13.5	17.5	32.5	6.5	45	4	80
GN 303.1-63-M8-20-SW-*	63	M 8	20	13.5	17.5	32.5	6.5	45	4	80
GN 303.1-63-M8-25-SW-*	63	M 8	25	13.5	17.5	32.5	6.5	45	4	80
GN 303.1-63-M8-32-SW-*	63	M 8	32	13.5	17.5	32.5	6.5	45	4	80
GN 303.1-63-M8-40-SW-*	63	M 8	40	13.5	17.5	32.5	6.5	45	4	90
GN 303.1-63-M8-50-SW-*	63	M 8	50	13.5	17.5	32.5	6.5	45	4	100
GN 303.1-63-M8-63-SW-*	63	M 8	63	13.5	17.5	32.5	6.5	45	4	100
GN 303.1-63-M10-20-SW-*	63	M 10	20	13.5	17.5	32.5	6.5	45	4	90
GN 303.1-63-M10-25-SW-*	63	M 10	25	13.5	17.5	32.5	6.5	45	4	100
GN 303.1-63-M10-32-SW-*	63	M 10	32	13.5	17.5	32.5	6.5	45	4	100
GN 303.1-63-M10-40-SW-*	63	M 10	40	13.5	17.5	32.5	6.5	45	4	100
GN 303.1-63-M10-50-SW-*	63	M 10	50	13.5	17.5	32.5	6.5	45	4	110
GN 303.1-63-M10-63-SW-*	63	M 10	63	13.5	17.5	32.5	6.5	45	4	117
GN 303.1-78-M8-16-SW-*	78	M 8	16	16	21	37.5	8	55	4	140
GN 303.1-78-M8-20-SW-*	78	M 8	20	16	21	37.5	8	55	4	140
GN 303.1-78-M8-25-SW-*	78	M 8	25	16	21	37.5	8	55	4	140
GN 303.1-78-M8-32-SW-*	78	M 8	32	16	21	37.5	8	55	4	140
GN 303.1-78-M8-40-SW-*	78	M 8	40	16	21	37.5	8	55	4	140
GN 303.1-78-M8-50-SW-*	78	M 8	50	16	21	37.5	8	55	4	150
GN 303.1-78-M8-63-SW-*	78	M 8	63	16	21	37.5	8	55	4	150
GN 303.1-78-M8-80-SW-*	78	M 8	80	16	21	37.5	8	55	4	160
GN 303.1-78-M10-16-SW-*	78	M 10	16	16	21	37.5	8	55	4	128
GN 303.1-78-M10-20-SW-*	78	M 10	20	16	21	37.5	8	55	4	130
GN 303.1-78-M10-25-SW-*	78	M 10	25	16	21	37.5	8	55	4	132
GN 303.1-78-M10-32-SW-*	78	M 10	32	16	21	37.5	8	55	4	142
GN 303.1-78-M10-40-SW-*	78	M 10	40	16	21	37.5	8	55	4	140
GN 303.1-78-M10-50-SW-*	78	M 10	50	16	21	37.5	8	55	4	145
GN 303.1-78-M10-63-SW-*	78	M 10	63	16	21	37.5	8	55	4	152
GN 303.1-78-M10-80-SW-*	78	M 10	80	16	21	37.5	8	55	4	159

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Adjustable hand levers

with special tipped threaded studs

SPECIFICATION

Types

- Type **MS**: Brass tipp
- Type **KU**: Plastic tipp
- Type **DZ**: Hardened oval tipp
- Type **ZK**: Spherical end
- Type **KD**: Spherical end with swivel thrust pad

Handle

Zinc die casting

Plastic coated
black, RAL 9005, textured finish **SW**
orange, RAL 2004, textured finish **OS**
red, RAL 3000, textured finsih **RS**
silver, RAL 9006, textured finish **SR**

Threaded stud and retaining screw
Steel, blackened

Thrust point

- Type MS: Brass
- Type KU: Plastic (POM)
- Type DZ: Steel, hardened (Oval point)

Thrust pad
Plastic (Polyacetal POM)

- temperature resistant up to 80 °C
- black, matt

INFORMATION

Adjustable hand levers GN 306 are ideal whenever parts have to be clamped in a confined space or in a particular lever position. The centre insert is connected to the lever via serrations which can easily be disengaged.
Pulling the lever disengages the serrations, allowing it to be swivelled to the ideal clamping position. When the lever is released, the serrations
The brass and plastic tipped studs (Types MS / KU) help to avoid damage to the work piece being clamped.
The hardened tipped stud (Type DZ) provides an oval point-shaped pressure point.
The swivel thrust pad (Type KD) can easily be snapped on and taken off.
Pad is supplied unmounted.

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)

ON REQUEST

- with threaded stud in Stainless Steel
- Flat handle GN 302 (see page 360)

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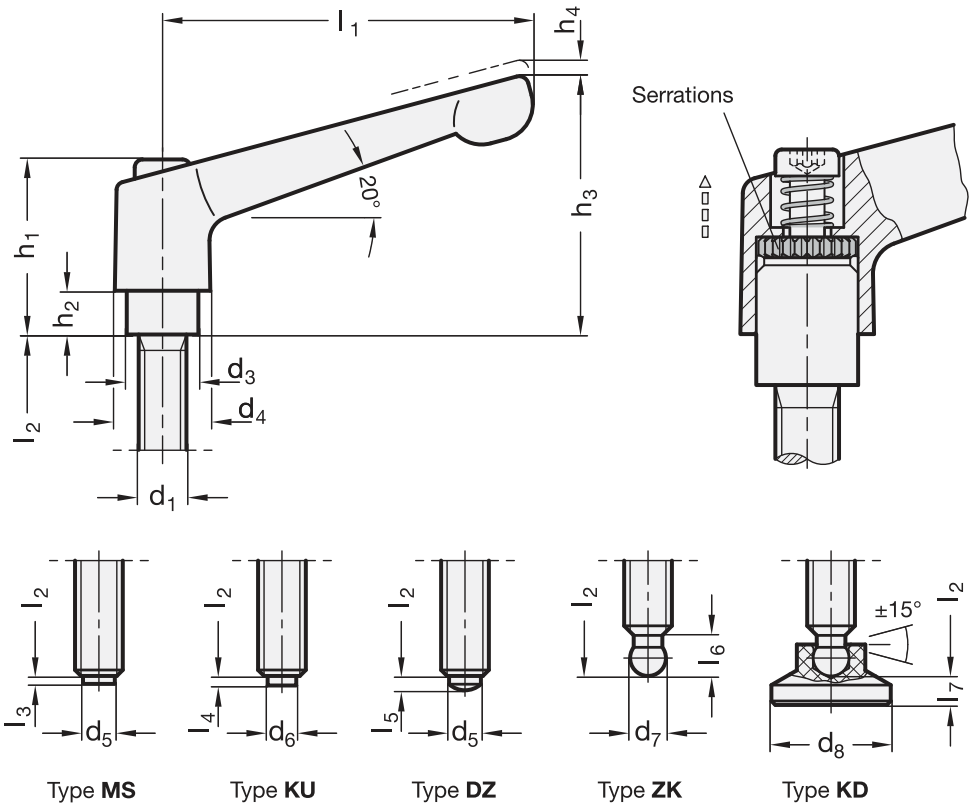
GN 306

Adjustable hand levers



* Complete with colour index of the clamping lever body (SW, OS, RS or SR)

SW	OS	RS	SR
RAL9005	RAL2004	RAL3000	RAL9006

GN 306

Description	l1	d1	l2	d3	d4	d5	d6	d7	d8	h1	h2	h3	h4	l3	l4	l5	l6	l7	⚖
GN 306-30-M6-16-DZ-*	30	M 6	16	10	13	4	-	-	-	24.5	4	31	3.5	-	-	1.8	-	-	28
GN 306-30-M6-20-DZ-*	30	M 6	20	10	13	4	-	-	-	24.5	4	31	3.5	-	-	1.8	-	-	29
GN 306-30-M6-25-DZ-*	30	M 6	25	10	13	4	-	-	-	24.5	4	31	3.5	-	-	1.8	-	-	30
GN 306-30-M6-32-DZ-*	30	M 6	32	10	13	4	-	-	-	24.5	4	31	3.5	-	-	1.8	-	-	31
GN 306-30-M6-40-DZ-*	30	M 6	40	10	13	4	-	-	-	24.5	4	31	3.5	-	-	1.8	-	-	33
GN 306-30-M6-50-DZ-*	30	M 6	50	10	13	4	-	-	-	24.5	4	31	3.5	-	-	1.8	-	-	34
GN 306-45-M6-16-DZ-*	45	M 6	16	10	13	4	-	-	-	24.5	4	35	3.5	-	-	1.8	-	-	56
GN 306-45-M6-20-DZ-*	45	M 6	20	10	13	4	-	-	-	24.5	4	35	3.5	-	-	1.8	-	-	57
GN 306-45-M6-25-DZ-*	45	M 6	25	10	13	4	-	-	-	24.5	4	35	3.5	-	-	1.8	-	-	58
GN 306-45-M6-32-DZ-*	45	M 6	32	10	13	4	-	-	-	24.5	4	35	3.5	-	-	1.8	-	-	59
GN 306-45-M6-40-DZ-*	45	M 6	40	10	13	4	-	-	-	24.5	4	35	3.5	-	-	1.8	-	-	61
GN 306-45-M6-50-DZ-*	45	M 6	50	10	13	4	-	-	-	24.5	4	35	3.5	-	-	1.8	-	-	62
GN 306-63-M8-20-DZ-*	63	M 8	20	13.5	17.5	6	-	-	-	31	6.5	45	4	-	-	2.5	-	-	50
GN 306-63-M8-25-DZ-*	63	M 8	25	13.5	17.5	6	-	-	-	31	6.5	45	4	-	-	2.5	-	-	64
GN 306-63-M8-32-DZ-*	63	M 8	32	13.5	17.5	6	-	-	-	31	6.5	45	4	-	-	2.5	-	-	83
GN 306-63-M8-40-DZ-*	63	M 8	40	13.5	17.5	6	-	-	-	31	6.5	45	4	-	-	2.5	-	-	85
GN 306-63-M8-50-DZ-*	63	M 8	50	13.5	17.5	6	-	-	-	31	6.5	45	4	-	-	2.5	-	-	89
GN 306-63-M8-63-DZ-*	63	M 8	63	13.5	17.5	6	-	-	-	31	6.5	45	4	-	-	2.5	-	-	92
GN 306-63-M10-20-DZ-*	63	M 10	20	13.5	17.5	8	-	-	-	31	6.5	45	4	-	-	3.5	-	-	86
GN 306-63-M10-25-DZ-*	63	M 10	25	13.5	17.5	8	-	-	-	31	6.5	45	4	-	-	3.5	-	-	93
GN 306-63-M10-32-DZ-*	63	M 10	32	13.5	17.5	8	-	-	-	31	6.5	45	4	-	-	3.5	-	-	95
GN 306-63-M10-40-DZ-*	63	M 10	40	13.5	17.5	8	-	-	-	31	6.5	45	4	-	-	3.5	-	-	98
GN 306-63-M10-50-DZ-*	63	M 10	50	13.5	17.5	8	-	-	-	31	6.5	45	4	-	-	3.5	-	-	100
GN 306-63-M10-63-DZ-*	63	M 10	63	13.5	17.5	8	-	-	-	31	6.5	45	4	-	-	3.5	-	-	104

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GN 306

Adjustable hand levers

* Complete with colour index of the clamping lever body (SW, OS, RS or SR)

SW RAL9005 | OS RAL2004 | RS RAL3000 | SR RAL9006

GN 306

Description	l1	d1	l2	d3	d4	d5	d6	d7	d8	h1	h2	h3	h4	l3	l4	l5	l6	l7	⚖
GN 306-30-M6-16-KD-*	30	M 6	16	10	13	-	-	-	15	24.5	4	31	3.5	-	-	-	-	3.6	25
GN 306-30-M6-20-KD-*	30	M 6	20	10	13	-	-	-	15	24.5	4	31	3.5	-	-	-	-	3.6	30
GN 306-30-M6-25-KD-*	30	M 6	25	10	13	-	-	-	15	24.5	4	31	3.5	-	-	-	-	3.6	31
GN 306-30-M6-32-KD-*	30	M 6	32	10	13	-	-	-	15	24.5	4	31	3.5	-	-	-	-	3.6	32
GN 306-30-M6-40-KD-*	30	M 6	40	10	13	-	-	-	15	24.5	4	31	3.5	-	-	-	-	3.6	33
GN 306-30-M6-50-KD-*	30	M 6	50	10	13	-	-	-	15	24.5	4	31	3.5	-	-	-	-	3.6	35
GN 306-45-M6-16-KD-*	45	M 6	16	10	13	-	-	-	15	24.5	4	35	3.5	-	-	-	-	3.6	57
GN 306-45-M6-20-KD-*	45	M 6	20	10	13	-	-	-	15	24.5	4	35	3.5	-	-	-	-	3.6	58
GN 306-45-M6-25-KD-*	45	M 6	25	10	13	-	-	-	15	24.5	4	35	3.5	-	-	-	-	3.6	59
GN 306-45-M6-32-KD-*	45	M 6	32	10	13	-	-	-	15	24.5	4	35	3.5	-	-	-	-	3.6	60
GN 306-45-M6-40-KD-*	45	M 6	40	10	13	-	-	-	15	24.5	4	35	3.5	-	-	-	-	3.6	61
GN 306-45-M6-50-KD-*	45	M 6	50	10	13	-	-	-	15	24.5	4	35	3.5	-	-	-	-	3.6	62
GN 306-63-M8-20-KD-*	63	M 8	20	13.5	17.5	-	-	-	18	31	6.5	45	4	-	-	-	-	4.2	85
GN 306-63-M8-25-KD-*	63	M 8	25	13.5	17.5	-	-	-	18	31	6.5	45	4	-	-	-	-	4.2	86
GN 306-63-M8-32-KD-*	63	M 8	32	13.5	17.5	-	-	-	18	31	6.5	45	4	-	-	-	-	4.2	89
GN 306-63-M8-40-KD-*	63	M 8	40	13.5	17.5	-	-	-	18	31	6.5	45	4	-	-	-	-	4.2	91
GN 306-63-M8-50-KD-*	63	M 8	50	13.5	17.5	-	-	-	18	31	6.5	45	4	-	-	-	-	4.2	93
GN 306-63-M8-63-KD-*	63	M 8	63	13.5	17.5	-	-	-	18	31	6.5	45	4	-	-	-	-	4.2	110
GN 306-63-M10-20-KD-*	63	M 10	20	13.5	17.5	-	-	-	21	31	6.5	45	4	-	-	-	-	4.3	84
GN 306-63-M10-25-KD-*	63	M 10	25	13.5	17.5	-	-	-	21	31	6.5	45	4	-	-	-	-	4.3	87
GN 306-63-M10-32-KD-*	63	M 10	32	13.5	17.5	-	-	-	21	31	6.5	45	4	-	-	-	-	4.3	90
GN 306-63-M10-40-KD-*	63	M 10	40	13.5	17.5	-	-	-	21	31	6.5	45	4	-	-	-	-	4.3	94
GN 306-63-M10-50-KD-*	63	M 10	50	13.5	17.5	-	-	-	21	31	6.5	45	4	-	-	-	-	4.3	100
GN 306-63-M10-63-KD-*	63	M 10	63	13.5	17.5	-	-	-	21	31	6.5	45	4	-	-	-	-	4.3	110
GN 306-30-M6-16-KU-*	30	M 6	16	10	13	-	3.5	-	-	24.5	4	31	3.5	-	1.3	-	-	-	27
GN 306-30-M6-20-KU-*	30	M 6	20	10	13	-	3.5	-	-	24.5	4	31	3.5	-	1.3	-	-	-	29
GN 306-30-M6-25-KU-*	30	M 6	25	10	13	-	3.5	-	-	24.5	4	31	3.5	-	1.3	-	-	-	30
GN 306-30-M6-32-KU-*	30	M 6	32	10	13	-	3.5	-	-	24.5	4	31	3.5	-	1.3	-	-	-	31
GN 306-30-M6-40-KU-*	30	M 6	40	10	13	-	3.5	-	-	24.5	4	31	3.5	-	1.3	-	-	-	32
GN 306-30-M6-50-KU-*	30	M 6	50	10	13	-	3.5	-	-	24.5	4	31	3.5	-	1.3	-	-	-	34
GN 306-45-M6-16-KU-*	45	M 6	16	10	13	-	3.5	-	-	24.5	4	35	3.5	-	1.3	-	-	-	40
GN 306-45-M6-20-KU-*	45	M 6	20	10	13	-	3.5	-	-	24.5	4	35	3.5	-	1.3	-	-	-	50
GN 306-45-M6-25-KU-*	45	M 6	25	10	13	-	3.5	-	-	24.5	4	35	3.5	-	1.3	-	-	-	58
GN 306-45-M6-32-KU-*	45	M 6	32	10	13	-	3.5	-	-	24.5	4	35	3.5	-	1.3	-	-	-	59
GN 306-45-M6-40-KU-*	45	M 6	40	10	13	-	3.5	-	-	24.5	4	35	3.5	-	1.3	-	-	-	60
GN 306-45-M6-50-KU-*	45	M 6	50	10	13	-	3.5	-	-	24.5	4	35	3.5	-	1.3	-	-	-	62
GN 306-63-M8-20-KU-*	63	M 8	20	13.5	17.5	-	5	-	-	31	6.5	45	4	-	1.6	-	-	-	78
GN 306-63-M8-25-KU-*	63	M 8	25	13.5	17.5	-	5	-	-	31	6.5	45	4	-	1.6	-	-	-	80
GN 306-63-M8-32-KU-*	63	M 8	32	13.5	17.5	-	5	-	-	31	6.5	45	4	-	1.6	-	-	-	87
GN 306-63-M8-40-KU-*	63	M 8	40	13.5	17.5	-	5	-	-	31	6.5	45	4	-	1.6	-	-	-	88
GN 306-63-M8-50-KU-*	63	M 8	50	13.5	17.5	-	5	-	-	31	6.5	45	4	-	1.6	-	-	-	89
GN 306-63-M8-63-KU-*	63	M 8	63	13.5	17.5	-	5	-	-	31	6.5	45	4	-	1.6	-	-	-	91
GN 306-63-M10-20-KU-*	63	M 10	20	13.5	17.5	-	6.5	-	-	31	6.5	45	4	-	1.9	-	-	-	80
GN 306-63-M10-25-KU-*	63	M 10	25	13.5	17.5	-	6.5	-	-	31	6.5	45	4	-	1.9	-	-	-	84
GN 306-63-M10-32-KU-*	63	M 10	32	13.5	17.5	-	6.5	-	-	31	6.5	45	4	-	1.9	-	-	-	86
GN 306-63-M10-40-KU-*	63	M 10	40	13.5	17.5	-	6.5	-	-	31	6.5	45	4	-	1.9	-	-	-	90
GN 306-63-M10-50-KU-*	63	M 10	50	13.5	17.5	-	6.5	-	-	31	6.5	45	4	-	1.9	-	-	-	96

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GN 306

Adjustable hand levers

* Complete with colour index of the clamping lever body (SW, OS, RS or SR)

SW	OS	RS	SR
RAL9005	RAL2004	RAL3000	RAL9006

GN 306

Description	l1	d1	l2	d3	d4	d5	d6	d7	d8	h1	h2	h3	h4	l3	l4	l5	l6	l7	⚖
GN 306-30-M6-16-MS-*	30	M 6	16	10	13	4	-	-	-	24.5	4	31	3.5	1	-	-	-	-	27
GN 306-30-M6-20-MS-*	30	M 6	20	10	13	4	-	-	-	24.5	4	31	3.5	1	-	-	-	-	29
GN 306-30-M6-25-MS-*	30	M 6	25	10	13	4	-	-	-	24.5	4	31	3.5	1	-	-	-	-	30
GN 306-30-M6-32-MS-*	30	M 6	32	10	13	4	-	-	-	24.5	4	31	3.5	1	-	-	-	-	31
GN 306-30-M6-40-MS-*	30	M 6	40	10	13	4	-	-	-	24.5	4	31	3.5	1	-	-	-	-	33
GN 306-30-M6-50-MS-*	30	M 6	50	10	13	4	-	-	-	24.5	4	31	3.5	1	-	-	-	-	34
GN 306-45-M6-16-MS-*	45	M 6	16	10	13	4	-	-	-	24.5	4	35	3.5	1	-	-	-	-	40
GN 306-45-M6-20-MS-*	45	M 6	20	10	13	4	-	-	-	24.5	4	35	3.5	1	-	-	-	-	50
GN 306-45-M6-25-MS-*	45	M 6	25	10	13	4	-	-	-	24.5	4	35	3.5	1	-	-	-	-	58
GN 306-45-M6-32-MS-*	45	M 6	32	10	13	4	-	-	-	24.5	4	35	3.5	1	-	-	-	-	59
GN 306-45-M6-40-MS-*	45	M 6	40	10	13	4	-	-	-	24.5	4	35	3.5	1	-	-	-	-	60
GN 306-45-M6-50-MS-*	45	M 6	50	10	13	4	-	-	-	24.5	4	35	3.5	1	-	-	-	-	62
GN 306-63-M8-20-MS-*	63	M 8	20	13.5	17.5	6	-	-	-	31	6.5	45	4	1.5	-	-	-	-	80
GN 306-63-M8-25-MS-*	63	M 8	25	13.5	17.5	6	-	-	-	31	6.5	45	4	1.5	-	-	-	-	87
GN 306-63-M8-32-MS-*	63	M 8	32	13.5	17.5	6	-	-	-	31	6.5	45	4	1.5	-	-	-	-	90
GN 306-63-M8-40-MS-*	63	M 8	40	13.5	17.5	6	-	-	-	31	6.5	45	4	1.5	-	-	-	-	91
GN 306-63-M8-50-MS-*	63	M 8	50	13.5	17.5	6	-	-	-	31	6.5	45	4	1.5	-	-	-	-	95
GN 306-63-M8-63-MS-*	63	M 8	63	13.5	17.5	6	-	-	-	31	6.5	45	4	1.5	-	-	-	-	100
GN 306-63-M10-20-MS-*	63	M 10	20	13.5	17.5	8	-	-	-	31	6.5	45	4	2	-	-	-	-	80
GN 306-63-M10-25-MS-*	63	M 10	25	13.5	17.5	8	-	-	-	31	6.5	45	4	2	-	-	-	-	85
GN 306-63-M10-32-MS-*	63	M 10	32	13.5	17.5	8	-	-	-	31	6.5	45	4	2	-	-	-	-	90
GN 306-63-M10-40-MS-*	63	M 10	40	13.5	17.5	8	-	-	-	31	6.5	45	4	2	-	-	-	-	95
GN 306-63-M10-50-MS-*	63	M 10	50	13.5	17.5	8	-	-	-	31	6.5	45	4	2	-	-	-	-	98
GN 306-63-M10-63-MS-*	63	M 10	63	13.5	17.5	8	-	-	-	31	6.5	45	4	2	-	-	-	-	104
GN 306-30-M6-16-ZK-*	30	M 6	16	10	13	-	-	4.5 ±0.03	-	24.5	4	31	3.5	-	-	-	5.1	-	24
GN 306-30-M6-20-ZK-*	30	M 6	20	10	13	-	-	4.5 ±0.03	-	24.5	4	31	3.5	-	-	-	5.1	-	29
GN 306-30-M6-25-ZK-*	30	M 6	25	10	13	-	-	4.5 ±0.03	-	24.5	4	31	3.5	-	-	-	5.1	-	30
GN 306-30-M6-32-ZK-*	30	M 6	32	10	13	-	-	4.5 ±0.03	-	24.5	4	31	3.5	-	-	-	5.1	-	31
GN 306-30-M6-40-ZK-*	30	M 6	40	10	13	-	-	4.5 ±0.03	-	24.5	4	31	3.5	-	-	-	5.1	-	32
GN 306-30-M6-50-ZK-*	30	M 6	50	10	13	-	-	4.5 ±0.03	-	24.5	4	31	3.5	-	-	-	5.1	-	34
GN 306-45-M6-16-ZK-*	45	M 6	16	10	13	-	-	4.5 ±0.03	-	24.5	4	35	3.5	-	-	-	5.1	-	55
GN 306-45-M6-20-ZK-*	45	M 6	20	10	13	-	-	4.5 ±0.03	-	24.5	4	35	3.5	-	-	-	5.1	-	56
GN 306-45-M6-25-ZK-*	45	M 6	25	10	13	-	-	4.5 ±0.03	-	24.5	4	35	3.5	-	-	-	5.1	-	58
GN 306-45-M6-32-ZK-*	45	M 6	32	10	13	-	-	4.5 ±0.03	-	24.5	4	35	3.5	-	-	-	5.1	-	59
GN 306-45-M6-40-ZK-*	45	M 6	40	10	13	-	-	4.5 ±0.03	-	24.5	4	35	3.5	-	-	-	5.1	-	60
GN 306-45-M6-50-ZK-*	45	M 6	50	10	13	-	-	4.5 ±0.03	-	24.5	4	35	3.5	-	-	-	5.1	-	62
GN 306-63-M8-20-ZK-*	63	M 8	20	13.5	17.5	-	-	6.1 ±0.05	-	31	6.5	45	4	-	-	-	6.2	-	78
GN 306-63-M8-25-ZK-*	63	M 8	25	13.5	17.5	-	-	6.1 ±0.05	-	31	6.5	45	4	-	-	-	6.2	-	80
GN 306-63-M8-32-ZK-*	63	M 8	32	13.5	17.5	-	-	6.1 ±0.05	-	31	6.5	45	4	-	-	-	6.2	-	82
GN 306-63-M8-40-ZK-*	63	M 8	40	13.5	17.5	-	-	6.1 ±0.05	-	31	6.5	45	4	-	-	-	6.2	-	84
GN 306-63-M8-50-ZK-*	63	M 8	50	13.5	17.5	-	-	6.1 ±0.05	-	31	6.5	45	4	-	-	-	6.2	-	85
GN 306-63-M8-63-ZK-*	63	M 8	63	13.5	17.5	-	-	6.1 ±0.05	-	31	6.5	45	4	-	-	-	6.2	-	87
GN 306-63-M10-20-ZK-*	63	M 10	20	13.5	17.5	-	-	7.8 ±0.05	-	31	6.5	45	4	-	-	-	7.3	-	81
GN 306-63-M10-25-ZK-*	63	M 10	25	13.5	17.5	-	-	7.8 ±0.05	-	31	6.5	45	4	-	-	-	7.3	-	84
GN 306-63-M10-32-ZK-*	63	M 10	32	13.5	17.5	-	-	7.8 ±0.05	-	31	6.5	45	4	-	-	-	7.3	-	86
GN 306-63-M10-40-ZK-*	63	M 10	40	13.5	17.5	-	-	7.8 ±0.05	-	31	6.5	45	4	-	-	-	7.3	-	91
GN 306-63-M10-50-ZK-*	63	M 10	50	13.5	17.5	-	-	7.8 ±0.05	-	31	6.5	45	4	-	-	-	7.3	-	96
GN 306-63-M10-63-ZK-*	63	M 10	63	13.5	17.5	-	-	7.8 ±0.05	-	31	6.5	45	4	-	-	-	7.3	-	100

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Adjustable handles

Technopolymer

ELESA Original design

LEVER BODY
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

PUSH BUTTON
Technopolymer, black colour, matte finish.

STANDARD EXECUTIONS
Glass-fibre reinforced technopolymer clamping element with retaining pin, black colour, with knurling on the protruding part to make initial tightening easier. AISI 302 stainless steel return spring.
- **MRX-B:** brass boss, threaded blind hole.
- **MRX-SST:** AISI 303 stainless steel boss, threaded blind hole.
- **MRX-p:** zinc-plated steel threaded stud, chamfered flat end UNI 947 : ISO 4753 (see Technical Data on page A11).
- **MRX-SST-p:** AISI 303 stainless steel threaded stud, chamfered flat end UNI 947 : ISO 4753 (see Technical Data on page A11).

FEATURES AND APPLICATIONS
Particularly suitable when the lever turning angle is limited owing to lack of space. Compared to other types of adjustable handles with metal retaining screw this solution offers:
- absolute electric insulation for the operator
- more comfortable lever release.

STRESS RESISTANCE
See ERX. (on page 304).

OTHER EXECUTIONS AVAILABLE
Lever body in orange (C2) with black push button (C1).
Example: code 141131-C2-C1 description MRX.40-C2-B-M5-C1.

SPECIAL EXECUTIONS ON REQUEST
Lever body in RAL 7031 grey.

INSTRUCTIONS OF USE
For clamping, lift the lever to disengage the clamping device teeth and bring it back to start position. By releasing the lever, the return spring automatically engages the teeth.

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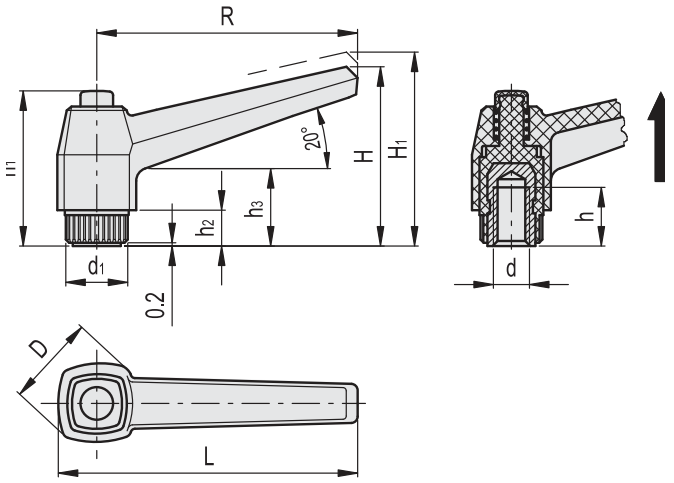
MRX-B
MRX-SST



MRX-B

Code	Description	R	d6H	L	D	H	H1	h	h1	h2	h3	d1	Teeth no.	⚖
141131	MRX.40 B-M5	42	M5	50	18	32	35.5	10	29	6	14	12	18	10
141141	MRX.40 B-M6	42	M6	50	18	32	35.5	10	29	6	14	12	18	12
141411	MRX.63 B-M6	63	M6	73	23	43	46.5	16	37	8	17	15	20	21
141421	MRX.63 B-M8	63	M8	73	23	43	46.5	13	37	8	17	15	20	22
141422	MRX.63 B-M10	63	M10	73	23	43	46.5	13	37	8	17	15	20	20
142111	MRX.80 B-M8	80	M8	92	28	54	58.5	20	47	10	22	19	24	41
142121	MRX.80 B-M10	80	M10	92	28	54	58.5	18	47	10	22	19	24	42
142131	MRX.80 B-M12	80	M12	92	28	54	58.5	17	47	10	22	19	24	45
142501	MRX.100 B-M10	100	M10	114	33	65	69.5	20	54	12	25	25	28	70
142511	MRX.100 B-M12	100	M12	114	33	65	69.5	20	54	12	25	25	28	74
142521	MRX.100 B-M14	100	M14	114	33	65	69.5	20	54	12	25	25	28	84
142531	MRX.100 B-M16	100	M16	114	33	65	69.5	22	54	12	25	25	28	81

MRX-SST **STAINLESS STEEL**

Code	Description	R	d6H	L	D	H	H1	h	h1	h2	h3	d1	Teeth no.	⚖
141185	MRX.40-SST-M5	42	M5	50	18	32	35.5	6	29	6	14	12	18	14
141191	MRX.40-SST-M6	42	M6	50	18	32	35.5	10	29	6	14	12	18	12
141423	MRX.63-SST-M6	63	M6	73	23	43	46.5	12	37	8	17	15	20	24
141425	MRX.63-SST-M8	63	M8	73	23	43	46.5	13	37	8	17	15	20	22
142155	MRX.80-SST-M8	80	M8	92	28	54	58.5	13	47	10	22	19	24	44
142161	MRX.80-SST-M10	80	M10	92	28	54	58.5	17	47	10	22	19	24	42
142561	MRX.100-SST-M12	100	M12	114	33	65	69.5	20	54	12	25	25	28	75

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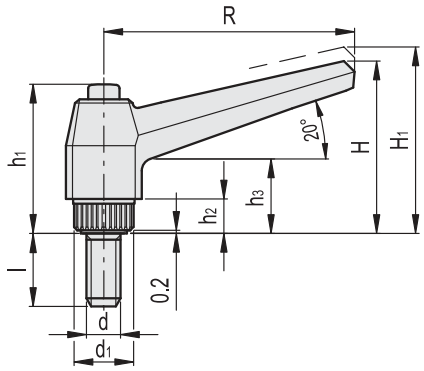
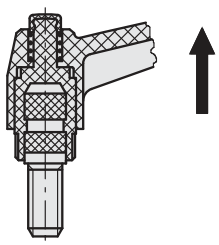
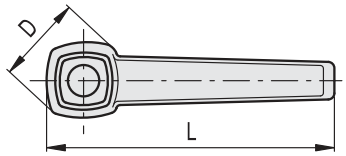


MRX-p
MRX-SST-p





MRX-p

Code	Description	R	d6g	L	D	H	H1	h1	h2	h3	d1	l	Teeth no.	⚖
141201	MRX.40 p-M5x10	42	M5	50	18	32	35.5	29	6	14	12	10	18	10
141211	MRX.40 p-M5x16	42	M5	50	18	32	35.5	29	6	14	12	16	18	11
141221	MRX.40 p-M5x20	42	M5	50	18	32	35.5	29	6	14	12	20	18	12
141301	MRX.40 p-M6x10	42	M6	50	18	32	35.5	29	6	14	12	10	18	12
141311	MRX.40 p-M6x16	42	M6	50	18	32	35.5	29	6	14	12	16	18	13
141321	MRX.40 p-M6x20	42	M6	50	18	32	35.5	29	6	14	12	20	18	14
141331	MRX.40 p-M6x25	42	M6	50	18	32	35.5	29	6	14	12	25	18	15
141335	MRX.40 p-M6x30	42	M6	50	18	32	35.5	29	6	14	12	30	18	16
141341	MRX.40 p-M6x40	42	M6	50	18	32	35.5	29	6	14	12	40	18	18
141361	MRX.40 p-M8x16	42	M8	50	18	32	35.5	29	6	14	12	16	18	15
141362	MRX.40 p-M8x20	42	M8	50	18	32	35.5	29	6	14	12	20	18	16
141363	MRX.40 p-M8x25	42	M8	50	18	32	35.5	29	6	14	12	25	18	18
141431	MRX.63 p-M6x10	63	M6	73	23	43	46.5	37	8	17	15	10	20	25
141441	MRX.63 p-M6x16	63	M6	73	23	43	46.5	37	8	17	15	16	20	26
141451	MRX.63 p-M6x20	63	M6	73	23	43	46.5	37	8	17	15	20	20	27
141461	MRX.63 p-M6x25	63	M6	73	23	43	46.5	37	8	17	15	25	20	28
141466	MRX.63 p-M6x30	63	M6	73	23	43	46.5	37	8	17	15	30	20	29
141470	MRX.63 p-M6x35	63	M6	73	23	43	46.5	37	8	17	15	35	20	30
141471	MRX.63 p-M6x40	63	M6	73	23	43	46.5	37	8	17	15	40	20	31
141501	MRX.63 p-M8x16	63	M8	73	23	43	46.5	37	8	17	15	16	20	28
141511	MRX.63 p-M8x20	63	M8	73	23	43	46.5	37	8	17	15	20	20	29
141521	MRX.63 p-M8x25	63	M8	73	23	43	46.5	37	8	17	15	25	20	31
141531	MRX.63 p-M8x30	63	M8	73	23	43	46.5	37	8	17	15	30	20	32
141535	MRX.63 p-M8x35	63	M8	73	23	43	46.5	37	8	17	15	35	20	35
141541	MRX.63 p-M8x40	63	M8	73	23	43	46.5	37	8	17	15	40	20	36
141551	MRX.63 p-M8x45	63	M8	73	23	43	46.5	37	8	17	15	45	20	37
141561	MRX.63 p-M8x50	63	M8	73	23	43	46.5	37	8	17	15	50	20	38
141569	MRX.63 p-M8x60	63	M8	73	23	43	46.5	37	8	17	15	60	20	40
141581	MRX.63 p-M10x20	63	M10	73	23	43	46.5	37	8	17	15	20	20	33
141583	MRX.63 p-M10x30	63	M10	73	23	43	46.5	37	8	17	15	30	20	36
141585	MRX.63 p-M10x40	63	M10	73	23	43	46.5	37	8	17	15	40	20	40
141587	MRX.63 p-M10x50	63	M10	73	23	43	46.5	37	8	17	15	50	20	42
141589	MRX.63 p-M10x60	63	M10	73	23	43	46.5	37	8	17	15	60	20	46
142181	MRX.80 p-M8x20	80	M8	92	28	54	58.5	47	10	22	19	20	24	52
142183	MRX.80 p-M8x25	80	M8	92	28	54	58.5	47	10	22	19	25	24	54
142185	MRX.80 p-M8x30	80	M8	92	28	54	58.5	47	10	22	19	30	24	56
142187	MRX.80 p-M8x40	80	M8	92	28	54	58.5	47	10	22	19	40	24	60
142189	MRX.80 p-M8x45	80	M8	92	28	54	58.5	47	10	22	19	45	24	62
142191	MRX.80 p-M8x50	80	M8	92	28	54	58.5	47	10	22	19	50	24	64
142193	MRX.80 p-M8x55	80	M8	92	28	54	58.5	47	10	22	19	55	24	66
142195	MRX.80 p-M8x60	80	M8	92	28	54	58.5	47	10	22	19	60	24	68
142197	MRX.80 p-M8x70	80	M8	92	28	54	58.5	47	10	22	19	70	24	70
142201	MRX.80 p-M10x20	80	M10	92	28	54	58.5	47	10	22	19	20	24	54
142211	MRX.80 p-M10x25	80	M10	92	28	54	58.5	47	10	22	19	25	24	57
142221	MRX.80 p-M10x30	80	M10	92	28	54	58.5	47	10	22	19	30	24	60
142225	MRX.80 p-M10x35	80	M10	92	28	54	58.5	47	10	22	19	35	24	62
142231	MRX.80 p-M10x40	80	M10	92	28	54	58.5	47	10	22	19	40	24	62
142241	MRX.80 p-M10x50	80	M10	92	28	54	58.5	47	10	22	19	50	24	68
142245	MRX.80 p-M10x60	80	M10	92	28	54	58.5	47	10	22	19	60	24	73
142251	MRX.80 p-M10x70	80	M10	92	28	54	58.5	47	10	22	19	70	24	79

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MRX-p

Code	Description	R	d6g	L	D	H	H1	h1	h2	h3	d1	l	Teeth no.	⚖
142301	MRX.80 p-M12x20	80	M12	92	28	54	58.5	47	10	22	19	20	24	62
142311	MRX.80 p-M12x25	80	M12	92	28	54	58.5	47	10	22	19	25	24	67
142321	MRX.80 p-M12x30	80	M12	92	28	54	58.5	47	10	22	19	30	24	68
142325	MRX.80 p-M12x35	80	M12	92	28	54	58.5	47	10	22	19	35	24	82
142331	MRX.80 p-M12x40	80	M12	92	28	54	58.5	47	10	22	19	40	24	75
142335	MRX.80 p-M12x45	80	M12	92	28	54	58.5	47	10	22	19	45	24	80
142341	MRX.80 p-M12x50	80	M12	92	28	54	58.5	47	10	22	19	50	24	83
142351	MRX.80 p-M12x60	80	M12	92	28	54	58.5	47	10	22	19	60	24	92
142361	MRX.80 p-M12x70	80	M12	92	28	54	58.5	47	10	22	19	70	24	98
142365	MRX.80 p-M12x80	80	M12	92	28	54	58.5	47	10	22	19	80	24	105
142601	MRX.100 p-M12x30	100	M12	114	33	65	69.5	54	12	25	25	30	28	96
142651	MRX.100 p-M12x50	100	M12	114	33	65	69.5	54	12	25	25	50	28	112
142701	MRX.100 p-M12x70	100	M12	114	33	65	69.5	54	12	25	25	70	28	127
142801	MRX.100 p-M14x30	100	M14	114	33	65	69.5	54	12	25	25	30	28	112
142831	MRX.100 p-M14x50	100	M14	114	33	65	69.5	54	12	25	25	50	28	132
142851	MRX.100 p-M14x70	100	M14	114	33	65	69.5	54	12	25	25	70	28	152
142901	MRX.100 p-M16x30	100	M16	114	33	65	69.5	54	12	25	25	30	28	138
142951	MRX.100 p-M16x50	100	M16	114	33	65	69.5	54	12	25	25	50	28	163
142981	MRX.100 p-M16x70	100	M16	114	33	65	69.5	54	12	25	25	70	28	190

MRX-SST-p

STAINLESS STEEL

Code	Description	R	d6g	L	D	H	H1	h1	h2	h3	d1	l	Teeth no.	⚖
141371	MRX.40-SST-p-M6x16	42	M6	50	18	32	35.5	29	6	14	12	16	18	13
141372	MRX.40-SST-p-M6x20	42	M6	50	18	32	35.5	29	6	14	12	20	18	14
141373	MRX.40-SST-p-M6x25	42	M6	50	18	32	35.5	29	6	14	12	25	18	15
141374	MRX.40-SST-p-M6x30	42	M6	50	18	32	35.5	29	6	14	12	30	18	16
141700	MRX.63-SST-p-M8x16	63	M8	73	23	43	46.5	37	8	17	15	16	20	28
141701	MRX.63-SST-p-M8x20	63	M8	73	23	43	46.5	37	8	17	15	20	20	29
141702	MRX.63-SST-p-M8x25	63	M8	73	23	43	46.5	37	8	17	15	25	20	31
141711	MRX.63-SST-p-M8x30	63	M8	73	23	43	46.5	37	8	17	15	30	20	32
141713	MRX.63-SST-p-M8x40	63	M8	73	23	43	46.5	37	8	17	15	40	20	36
141715	MRX.63-SST-p-M8x50	63	M8	73	23	43	46.5	37	8	17	15	50	20	38
142367	MRX.80-SST-p-M8x20	80	M8	92	28	54	58.5	47	10	22	19	20	24	53
142369	MRX.80-SST-p-M8x25	80	M8	92	28	54	58.5	47	10	22	19	25	24	55
142371	MRX.80-SST-p-M8x30	80	M8	92	28	54	58.5	47	10	22	19	30	24	57
142373	MRX.80-SST-p-M8x40	80	M8	92	28	54	58.5	47	10	22	19	40	24	61
142375	MRX.80-SST-p-M8x45	80	M8	92	28	54	58.5	47	10	22	19	45	24	63
142377	MRX.80-SST-p-M8x50	80	M8	92	28	54	58.5	47	10	22	19	50	24	66
142380	MRX.80-SST-p-M8x70	80	M8	92	28	54	58.5	47	10	22	19	70	24	67
142381	MRX.80-SST-p-M10x20	80	M10	92	28	54	58.5	47	10	22	19	20	24	54
142385	MRX.80-SST-p-M10x30	80	M10	92	28	54	58.5	47	10	22	19	30	24	60
142387	MRX.80-SST-p-M10x40	80	M10	92	28	54	58.5	47	10	22	19	40	24	62
142391	MRX.80-SST-p-M12x30	80	M12	92	28	54	58.5	47	10	22	19	30	24	68
142393	MRX.80-SST-p-M12x40	80	M12	92	28	54	58.5	47	10	22	19	40	24	75
142395	MRX.80-SST-p-M12x50	80	M12	92	28	54	58.5	47	10	22	19	50	24	83
143001	MRX.100-SST-p-M12x30	100	M12	114	33	65	69.5	54	12	25	25	30	28	97
143003	MRX.100-SST-p-M12x40	100	M12	114	33	65	69.5	54	12	25	25	40	28	105
143005	MRX.100-SST-p-M12x50	100	M12	114	33	65	69.5	54	12	25	25	50	28	113
143009	MRX.100-SST-p-M12x70	100	M12	114	33	65	69.5	54	12	25	25	70	28	128

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Adjustable handles

Technopolymer

LEVER BODY

Glass-fibre reinforced polyamide based (PA) technopolymer, black, orange, grey colours, matte finish.

STANDARD EXECUTIONS

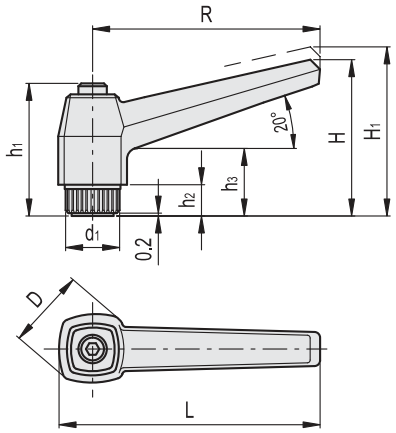
Glass-fibre reinforced technopolymer clamping element, black colour, with knurling on the protruding part to make initial tightening easier.

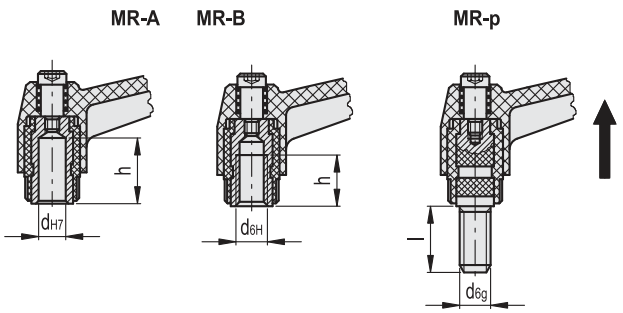
- **MR-A**: black-oxide steel boss, plain or threaded blind hole. Black-oxide steel retaining screw, AISI 302 stainless steel return spring.
- **MR-B**: brass boss, threaded blind hole. Brass retaining screw, AISI 302 stainless steel return spring.
- **MR-p**: black-oxide steel threaded stud, chamfered flat end UNI 947 : ISO 4753 (see Technical Data on page A11). Black-oxide steel retaining screw, AISI 302 stainless steel return spring.

STRESS RESISTANCE

See ERX. (on page 304).

ELESA Original design





*Complete with colour index of the lever body, example: (C9, C2, C31)

C9 RAL9005 C2 RAL2004 C31 RAL7031

MR-A
MR-B

Code C9	Code C2	Code C31	Description	R	dH7	d6H	L	D	H	H1	h	h1	h2	h3	d1	Teeth no.	⚖
41101	41102	41104	MR.40 A-5-*	42	5	-	50	18	32	36.5	10	29	6	14	12	18	14
41121	41122	41124	MR.40 A-M4-*	42	-	M4	50	18	32	36.5	10	29	6	14	12	18	14
41131	41132	41134	MR.40 A-M5-*	42	-	M5	50	18	32	36.5	10	29	6	14	12	18	14
41141	41142	41144	MR.40 A-M6-*	42	-	M6	50	18	32	36.5	10	29	6	14	12	18	13
41171	41172	41174	MR.40 B-M6-*	42	-	M6	50	18	32	36.5	10	29	6	14	12	18	14
41401	41402	41404	MR.63 A-6-*	63	6	-	73	23	43	47	15	36	8	17	15	20	25
41411	41412	41414	MR.63 A-M6-*	63	-	M6	73	23	43	47	12	36	8	17	15	20	27
41421	41422	41424	MR.63 A-M8-*	63	-	M8	73	23	43	47	12	36	8	17	15	20	24
41426	41427	41429	MR.63 B-M8-*	63	-	M8	73	23	43	47	12	36	8	17	15	20	25
42001	42002	42004	MR.80 A-8-*	80	8	-	92	28	54	59.5	20	45	10	22	19	24	56
42111	42112	42114	MR.80 A-M8-*	80	-	M8	92	28	54	59.5	17	45	10	22	19	24	57
42121	42122	42124	MR.80 A-M10-*	80	-	M10	92	28	54	59.5	17	45	10	22	19	24	54
42131	42132	42134	MR.80 A-M12-*	80	-	M12	92	28	54	59.5	17	45	10	22	19	24	48
42151	42152	42154	MR.80 B-M10-*	80	-	M10	92	28	54	59.5	17	45	10	22	19	24	56
42401	42402	42404	MR.100 A-10-*	100	10	-	114	33	65	70.5	25	53	12	25	25	28	114
42501	42502	42504	MR.100 A-M10-*	100	-	M10	114	33	65	70.5	20	53	12	25	25	28	114
42511	42512	42514	MR.100 A-M12-*	100	-	M12	114	33	65	70.5	20	53	12	25	25	28	112
42521	42522	42524	MR.100 A-M14-*	100	-	M14	114	33	65	70.5	20	53	12	25	25	28	104
42531	42532	42534	MR.100 A-M16-*	100	-	M16	114	33	65	70.5	20	53	12	25	25	28	95

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*Complete with colour index of the lever body, example: (C9, C2, C31)

C9 RAL9005 C2 RAL2004 C31 RAL7031

MR-p

Code C9	Code C2	Code C31	Description	R	d6g	L	D	H	H1	h1	h2	h3	d1	l	Teeth no.	⚖
41201	41202	41204	MR.40 p-M5x10-*	42	M5	50	18	32	36.5	29	6	14	12	10	18	15
41211	41212	41214	MR.40 p-M5x16-*	42	M5	50	18	32	36.5	29	6	14	12	16	18	16
41221	41222	41224	MR.40 p-M5x20-*	42	M5	50	18	32	36.5	29	6	14	12	20	18	17
41301	41302	41304	MR.40 p-M6x10-*	42	M6	50	18	32	36.5	29	6	14	12	10	18	16
41311	41312	41314	MR.40 p-M6x16-*	42	M6	50	18	32	36.5	29	6	14	12	16	18	17
41321	41322	41324	MR.40 p-M6x20-*	42	M6	50	18	32	36.5	29	6	14	12	20	18	18
41331	41332	41334	MR.40 p-M6x25-*	42	M6	50	18	32	36.5	29	6	14	12	25	18	19
41335	41336	41338	MR.40 p-M6x30-*	42	M6	50	18	32	36.5	29	6	14	12	30	18	20
41341	41342	41344	MR.40 p-M6x40-*	42	M6	50	18	32	36.5	29	6	14	12	40	18	21
41357	41358	41360	MR.40 p-M8x20-*	42	M8	50	18	32	36.5	29	6	14	12	20	18	20
41431	41432	41434	MR.63 p-M6x10-*	63	M6	73	23	43	47	36	8	17	15	10	20	31
41441	41442	41444	MR.63 p-M6x16-*	63	M6	73	23	43	47	36	8	17	15	16	20	32
41451	41452	41454	MR.63 p-M6x20-*	63	M6	73	23	43	47	36	8	17	15	20	20	33
41461	41462	41464	MR.63 p-M6x25-*	63	M6	73	23	43	47	36	8	17	15	25	20	34
41466	41467	41469	MR.63 p-M6x30-*	63	M6	73	23	43	47	36	8	17	15	30	20	35
41470	41475	41476	MR.63 p-M6x35-*	63	M6	73	23	43	47	36	8	17	15	35	20	35
41471	41472	41474	MR.63 p-M6x40-*	63	M6	73	23	43	47	36	8	17	15	40	20	36
41501	41502	41504	MR.63 p-M8x16-*	63	M8	73	23	43	47	36	8	17	15	16	20	34
41511	41512	41514	MR.63 p-M8x20-*	63	M8	73	23	43	47	36	8	17	15	20	20	35
41521	41522	41524	MR.63 p-M8x25-*	63	M8	73	23	43	47	36	8	17	15	25	20	37
41531	41532	41534	MR.63 p-M8x30-*	63	M8	73	23	43	47	36	8	17	15	30	20	39
41526	41527	41528	MR.63 p-M8x32-*	63	M8	73	23	43	47	36	8	17	15	32	20	40
41535	41536	41538	MR.63 p-M8x35-*	63	M8	73	23	43	47	36	8	17	15	35	20	41
41541	41542	41544	MR.63 p-M8x40-*	63	M8	73	23	43	47	36	8	17	15	40	20	43
41551	41552	41554	MR.63 p-M8x45-*	63	M8	73	23	43	47	36	8	17	15	45	20	45
41561	41562	41564	MR.63 p-M8x50-*	63	M8	73	23	43	47	36	8	17	15	50	20	47
41569	41570	41572	MR.63 p-M8x60-*	63	M8	73	23	43	47	36	8	17	15	60	20	51
41597	41598	41600	MR.63 p-M10x40-*	63	M10	73	23	43	47	36	8	17	15	40	20	52
42182	42183	42185	MR.80 p-M8x70-*	80	M8	92	28	54	59.5	45	10	22	19	70	24	85
42196	42197	42198	MR.80 p-M10x16-*	80	M10	92	28	54	59.5	45	10	22	19	16	24	70
42201	42202	42204	MR.80 p-M10x20-*	80	M10	92	28	54	59.5	45	10	22	19	20	24	72
42211	42212	42214	MR.80 p-M10x25-*	80	M10	92	28	54	59.5	45	10	22	19	25	24	74
42221	42222	42224	MR.80 p-M10x30-*	80	M10	92	28	54	59.5	45	10	22	19	30	24	77
42216	42217	42218	MR.80 p-M10x32-*	80	M10	92	28	54	59.5	45	10	22	19	32	24	78
42225	42226	42228	MR.80 p-M10x35-*	80	M10	92	28	54	59.5	45	10	22	19	35	24	80
42231	42232	42234	MR.80 p-M10x40-*	80	M10	92	28	54	59.5	45	10	22	19	40	24	82
42241	42242	42244	MR.80 p-M10x50-*	80	M10	92	28	54	59.5	45	10	22	19	50	24	87
42245	42246	42248	MR.80 p-M10x60-*	80	M10	92	28	54	59.5	45	10	22	19	60	24	92
42251	42252	42254	MR.80 p-M10x70-*	80	M10	92	28	54	59.5	45	10	22	19	70	24	97
42301	42302	42304	MR.80 p-M12x20-*	80	M12	92	28	54	59.5	45	10	22	19	20	24	76
42311	42312	42314	MR.80 p-M12x25-*	80	M12	92	28	54	59.5	45	10	22	19	25	24	80
42321	42322	42324	MR.80 p-M12x30-*	80	M12	92	28	54	59.5	45	10	22	19	30	24	84
42325	42326	42328	MR.80 p-M12x35-*	80	M12	92	28	54	59.5	45	10	22	19	35	24	88
42331	42332	42334	MR.80 p-M12x40-*	80	M12	92	28	54	59.5	45	10	22	19	40	24	92
42335	42336	42338	MR.80 p-M12x45-*	80	M12	92	28	54	59.5	45	10	22	19	45	24	92
42341	42342	42344	MR.80 p-M12x50-*	80	M12	92	28	54	59.5	45	10	22	19	50	24	100
42351	42352	42354	MR.80 p-M12x60-*	80	M12	92	28	54	59.5	45	10	22	19	60	24	108
42361	42362	42364	MR.80 p-M12x70-*	80	M12	92	28	54	59.5	45	10	22	19	70	24	116
42365	42366	42368	MR.80 p-M12x80-*	80	M12	92	28	54	59.5	45	10	22	19	80	24	118
42381	42382	42384	MR.80 p-M14x40-*	80	M14	92	28	54	59.5	45	10	22	19	40	24	153
42601	42602	42604	MR.100 p-M12x30-*	100	M12	114	33	65	70.5	53	12	25	25	30	28	138
42651	42652	42654	MR.100 p-M12x50-*	100	M12	114	33	65	70.5	53	12	25	25	50	28	150
42701	42702	42704	MR.100 p-M12x70-*	100	M12	114	33	65	70.5	53	12	25	25	70	28	162
42801	42802	42804	MR.100 p-M14x30-*	100	M14	114	33	65	70.5	53	12	25	25	30	28	142
42805	42806	42808	MR.100 p-M14x35-*	100	M14	114	33	65	70.5	53	12	25	25	35	28	147
42831	42832	42834	MR.100 p-M14x50-*	100	M14	114	33	65	70.5	53	12	25	25	50	28	162
42851	42852	42854	MR.100 p-M14x70-*	100	M14	114	33	65	70.5	53	12	25	25	70	28	182
42901	42902	42904	MR.100 p-M16x30-*	100	M16	114	33	65	70.5	53	12	25	25	30	28	149
42951	42952	42954	MR.100 p-M16x50-*	100	M16	114	33	65	70.5	53	12	25	25	50	28	177
42981	42982	42984	MR.100 p-M16x70-*	100	M16	114	33	65	70.5	53	12	25	25	70	28	205

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GN 101

RoHS

Adjustable hand levers

Zinc die casting, Bushing / Threaded bolt Steel

SPECIFICATION

Handle
Zinc die casting

plastic coated
black, RAL 9005, textured finish **SW**
orange, RAL 2004, textured finish **OS**

Version with internal thread

Threaded bush and retaining screw
Steel (5.8), blackened

Version with threaded stud

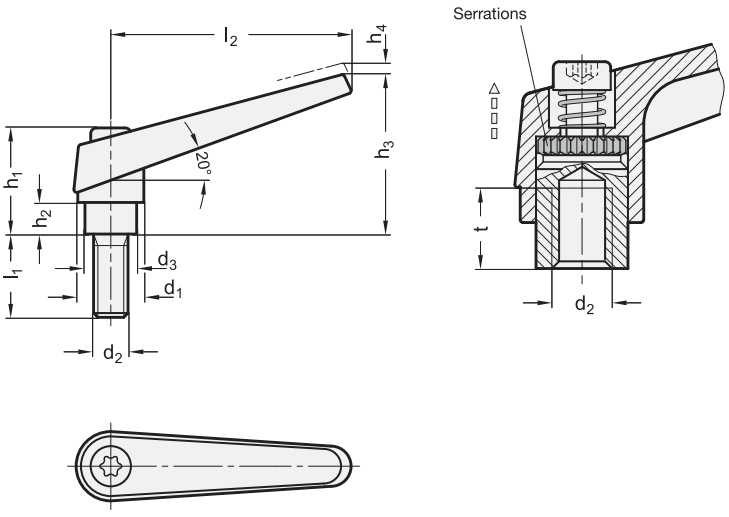
Threaded stud and retaining screw
Steel (5.8), blackened

INFORMATION

Adjustable hand levers GN 101 are ideal whenever parts have to be clamped in a confined space or in a particular lever position. The centre insert is connected to the lever via serrations which can easily be disengaged.
Pulling the lever disengages serrations and allowing to be swivelled to the ideal clamping position. On releasing the lever the serrations automatically re-engage.

ON REQUEST

- with insert in Stainless Steel



* Complete with colour index of the clamping lever body (SW or OS)

SW RAL9005 OS RAL2004

GN 101-with internal thread

Description	d1	d2	d3	h1	h2	h3 ≈	h4	l2	t min.	⚖
GN 101-14-M5-*	14	M 5	10	25	4.5	35	3.5	45	9	34
GN 101-18-M6-*	18	M 6	13.5	31	6.5	45	4	62	11	72
GN 101-18-M8-*	18	M 8	13.5	31	6.5	45	4	62	11	69
GN 101-22-M8-*	22	M 8	16	36	8	52	4	74	14	118
GN 101-22-M10-*	22	M 10	16	36	8	52	4	74	14	115
GN 101-25-M10-*	25	M 10	19	43	11	63	4	89	17	176
GN 101-25-M12-*	25	M 12	19	43	11	63	4	89	17	171
GN 101-30-M12-*	30	M 12	23	50.5	12	76	5	108	22	308
GN 101-30-M16-*	30	M 16	23	50.5	12	76	5	108	22	290

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* Complete with colour index of the clamping lever body (SW or OS)

SW RAL9005 OS RAL2004

GN 101-with threaded stud

Description	d1	d2	l1	d3	h1	h2	h3 ≈	h4	l2	⚖
GN 101-14-M5-12-*	14	M 5	12	10	25	4.5	35	3.5	45	37
GN 101-14-M5-16-*	14	M 5	16	10	25	4.5	35	3.5	45	37
GN 101-14-M5-20-*	14	M 5	20	10	25	4.5	35	3.5	45	38
GN 101-14-M5-25-*	14	M 5	25	10	25	4.5	35	3.5	45	39
GN 101-14-M5-32-*	14	M 5	32	10	25	4.5	35	3.5	45	39
GN 101-14-M5-40-*	14	M 5	40	10	25	4.5	35	3.5	45	39
GN 101-14-M5-50-*	14	M 5	50	10	25	4.5	35	3.5	45	40
GN 101-14-M6-12-*	14	M 6	12	10	25	4.5	35	3.5	45	37
GN 101-14-M6-16-*	14	M 6	16	10	25	4.5	35	3.5	45	39
GN 101-14-M6-20-*	14	M 6	20	10	25	4.5	35	3.5	45	38
GN 101-14-M6-25-*	14	M 6	25	10	25	4.5	35	3.5	45	39
GN 101-14-M6-32-*	14	M 6	32	10	25	4.5	35	3.5	45	40
GN 101-14-M6-40-*	14	M 6	40	10	25	4.5	35	3.5	45	41
GN 101-14-M6-50-*	14	M 6	50	10	25	4.5	35	3.5	45	43
GN 101-18-M6-16-*	18	M 6	16	13.5	31	6.5	45	4	62	78
GN 101-18-M6-20-*	18	M 6	20	13.5	31	6.5	45	4	62	78
GN 101-18-M6-25-*	18	M 6	25	13.5	31	6.5	45	4	62	79
GN 101-18-M6-32-*	18	M 6	32	13.5	31	6.5	45	4	62	80
GN 101-18-M6-40-*	18	M 6	40	13.5	31	6.5	45	4	62	82
GN 101-18-M6-50-*	18	M 6	50	13.5	31	6.5	45	4	62	83
GN 101-18-M6-63-*	18	M 6	63	13.5	31	6.5	45	4	62	84
GN 101-18-M8-16-*	18	M 8	16	13.5	31	6.5	45	4	62	79
GN 101-18-M8-20-*	18	M 8	20	13.5	31	6.5	45	4	62	81
GN 101-18-M8-25-*	18	M 8	25	13.5	31	6.5	45	4	62	83
GN 101-18-M8-32-*	18	M 8	32	13.5	31	6.5	45	4	62	84
GN 101-18-M8-40-*	18	M 8	40	13.5	31	6.5	45	4	62	88
GN 101-18-M8-50-*	18	M 8	50	13.5	31	6.5	45	4	62	90
GN 101-18-M8-63-*	18	M 8	63	13.5	31	6.5	45	4	62	93
GN 101-22-M10-20-*	22	M 10	20	16	36	8	52	4	74	134
GN 101-22-M10-25-*	22	M 10	25	16	36	8	52	4	74	136
GN 101-22-M10-32-*	22	M 10	32	16	36	8	52	4	74	140
GN 101-22-M10-40-*	22	M 10	40	16	36	8	52	4	74	143
GN 101-22-M10-50-*	22	M 10	50	16	36	8	52	4	74	149
GN 101-22-M10-63-*	22	M 10	63	16	36	8	52	4	74	152
GN 101-22-M10-80-*	22	M 10	80	16	36	8	52	4	74	160
GN 101-25-M12-25-*	25	M 12	25	19	43	11	63	4	89	204
GN 101-25-M12-32-*	25	M 12	32	19	43	11	63	4	89	209
GN 101-25-M12-40-*	25	M 12	40	19	43	11	63	4	89	215
GN 101-25-M12-50-*	25	M 12	50	19	43	11	63	4	89	223
GN 101-25-M12-63-*	25	M 12	63	19	43	11	63	4	89	230
GN 101-25-M12-80-*	25	M 12	80	19	43	11	63	4	89	240
GN 101-30-M16-32-*	30	M 16	32	23	50.5	12	76	5	108	365
GN 101-30-M16-40-*	30	M 16	40	23	50.5	12	76	5	108	380
GN 101-30-M16-50-*	30	M 16	50	23	50.5	12	76	5	108	390
GN 101-30-M16-63-*	30	M 16	63	23	50.5	12	76	5	108	403
GN 101-30-M16-80-*	30	M 16	80	23	50.5	12	76	5	108	424

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Adjustable hand levers

Zinc die casting, Bushing / Threaded bolt
Stainless Steel

SPECIFICATION

Handle
Zinc die casting

plastic coated
black, RAL 9005, textured finish **SW**
orange, RAL 2004, textured finish **OS**

Version with internal thread

Threaded bush and retaining screw
Stainless Steel AISI 303

Version with threaded stud

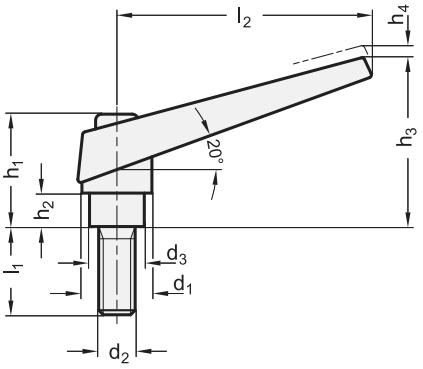
Threaded stud and retaining screw
Stainless Steel AISI 303

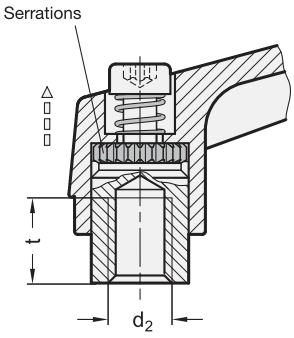
INFORMATION

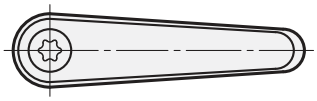
Adjustable hand levers GN 101.1 are ideal whenever parts have to be clamped in a confined space or in a particular lever position. The centre insert is connected to the lever via serrations which can easily be disengaged.
Pulling the lever disengages serrations and allowing to be swivelled to the ideal clamping position. On releasing the lever the serrations automatically re-engage.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)







* Complete with colour index of the clamping lever body (SW or OS)

SW RAL9005 OS RAL2004

GN 101.1-with internal thread **STAINLESS STEEL**

Description	d1	d2	d3	h1	h2	h3 ≈	h4	l2	t min.	⚖
GN 101.1-14-M5-*	14**	M 5	10	25	4.5	35	3.5	45	9	36
GN 101.1-14-M6-*	14**	M 6	10	25	4.5	35	3.5	45	9	36
GN 101.1-18-M6-*	18**	M 6	13.5	31	6.5	45	4	62	11	71
GN 101.1-18-M8-*	18**	M 8	13.5	31	6.5	45	4	62	11	60
GN 101.1-22-M8-*	22**	M 8	16	36	8	52	4	74	14	116
GN 101.1-22-M10-*	22**	M 10	16	36	8	52	4	74	14	116
GN 101.1-25-M10-*	25**	M 10	19	43	11	63	4	89	17	174
GN 101.1-25-M12-*	25**	M 12	19	43	11	63	4	89	17	168
GN 101.1-30-M12-*	30**	M 12	23	50.5	12	76	5	108	22	290
GN 101.1-30-M16-*	30**	M 16	23	50.5	12	76	5	108	22	273

** not available from stock, requires a minimum order quantity.

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GN 101.1 | Adjustable hand levers

* Complete with colour index of the clamping lever body (SW or OS)

SW RAL9005 OS RAL2004

GN 101.1-with threaded stud STAINLESS STEEL

Description	d1	d2	l1	d3	h1	h2	h3 ≈	h4	l2	⚖
GN 101.1-14-M5-12-*	14**	M 5	12	10	25	4.5	35	3.5	45	39
GN 101.1-14-M5-16-*	14**	M 5	16	10	25	4.5	35	3.5	45	39
GN 101.1-14-M5-20-*	14**	M 5	20	10	25	4.5	35	3.5	45	39
GN 101.1-14-M5-25-*	14**	M 5	25	10	25	4.5	35	3.5	45	40
GN 101.1-14-M5-32-*	14**	M 5	32	10	25	4.5	35	3.5	45	41
GN 101.1-14-M5-40-*	14**	M 5	40	10	25	4.5	35	3.5	45	42
GN 101.1-14-M5-50-*	14**	M 5	50	10	25	4.5	35	3.5	45	43
GN 101.1-14-M6-12-*	14**	M 6	12	10	25	4.5	35	3.5	45	39
GN 101.1-14-M6-16-*	14**	M 6	16	10	25	4.5	35	3.5	45	40
GN 101.1-14-M6-20-*	14**	M 6	20	10	25	4.5	35	3.5	45	40
GN 101.1-14-M6-25-*	14**	M 6	25	10	25	4.5	35	3.5	45	39
GN 101.1-14-M6-32-*	14**	M 6	32	10	25	4.5	35	3.5	45	43
GN 101.1-14-M6-40-*	14**	M 6	40	10	25	4.5	35	3.5	45	41
GN 101.1-14-M6-50-*	14**	M 6	50	10	25	4.5	35	3.5	45	46
GN 101.1-18-M6-16-*	18**	M 6	16	13.5	31	6.5	45	4	62	77
GN 101.1-18-M6-20-*	18**	M 6	20	13.5	31	6.5	45	4	62	78
GN 101.1-18-M6-25-*	18**	M 6	25	13.5	31	6.5	45	4	62	79
GN 101.1-18-M6-32-*	18**	M 6	32	13.5	31	6.5	45	4	62	79
GN 101.1-18-M6-40-*	18**	M 6	40	13.5	31	6.5	45	4	62	82
GN 101.1-18-M6-50-*	18**	M 6	50	13.5	31	6.5	45	4	62	83
GN 101.1-18-M6-63-*	18**	M 6	63	13.5	31	6.5	45	4	62	85
GN 101.1-18-M8-16-*	18**	M 8	16	13.5	31	6.5	45	4	62	80
GN 101.1-18-M8-20-*	18**	M 8	20	13.5	31	6.5	45	4	62	80
GN 101.1-18-M8-25-*	18**	M 8	25	13.5	31	6.5	45	4	62	83
GN 101.1-18-M8-32-*	18**	M 8	32	13.5	31	6.5	45	4	62	85
GN 101.1-18-M8-40-*	18**	M 8	40	13.5	31	6.5	45	4	62	86
GN 101.1-18-M8-50-*	18**	M 8	50	13.5	31	6.5	45	4	62	90
GN 101.1-18-M8-63-*	18**	M 8	63	13.5	31	6.5	45	4	62	95
GN 101.1-22-M10-20-*	22**	M 10	20	16	36	8	52	4	74	135
GN 101.1-22-M10-25-*	22**	M 10	25	16	36	8	52	4	74	137
GN 101.1-22-M10-32-*	22**	M 10	32	16	36	8	52	4	74	139
GN 101.1-22-M10-40-*	22**	M 10	40	16	36	8	52	4	74	144
GN 101.1-22-M10-50-*	22**	M 10	50	16	36	8	52	4	74	150
GN 101.1-22-M10-63-*	22**	M 10	63	16	36	8	52	4	74	157
GN 101.1-22-M10-80-*	22**	M 10	80	16	36	8	52	4	74	165
GN 101.1-25-M12-25-*	25**	M 12	25	19	43	11	63	4	89	202
GN 101.1-25-M12-32-*	25**	M 12	32	19	43	11	63	4	89	207
GN 101.1-25-M12-40-*	25**	M 12	40	19	43	11	63	4	89	212
GN 101.1-25-M12-50-*	25**	M 12	50	19	43	11	63	4	89	221
GN 101.1-25-M12-63-*	25**	M 12	63	19	43	11	63	4	89	229
GN 101.1-25-M12-80-*	25**	M 12	80	19	43	11	63	4	89	240
GN 101.1-30-M16-32-*	30**	M 16	32	23	50.5	12	76	5	108	349
GN 101.1-30-M16-40-*	30**	M 16	40	23	50.5	12	76	5	108	360
GN 101.1-30-M16-50-*	30**	M 16	50	23	50.5	12	76	5	108	372
GN 101.1-30-M16-63-*	30**	M 16	63	23	50.5	12	76	5	108	391
GN 101.1-30-M16-80-*	30**	M 16	80	23	50.5	12	76	5	108	413

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Adjustable handles

Technopolymer

LEVER BODY
Glass-fibre reinforced polyamide based (PA) technopolymer, grey-black colour, matte finish.

PUSH BUTTON
Technopolymer in grey-black or orange colours, glossy finish.

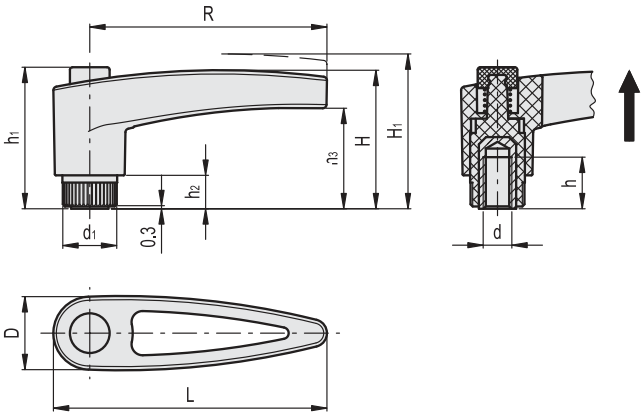
STANDARD EXECUTIONS
Glass-fibre reinforced technopolymer clamping element with retaining pin, black colour, with knurling on the protruding part to make initial tightening easier. AISI 302 stainless steel return spring.
- **MRT-B:** brass boss, threaded blind hole.
- **MRT-SST:** AISI 303 stainless steel boss, threaded blind hole.
- **MRT-p:** zinc-plated steel threaded stud, chamfered flat end UNI 947 : ISO 4753 (see Technical Data on page A11).
- **MRT-SST-p:** AISI 303 stainless steel threaded stud, chamfered flat end UNI 947 : ISO 4753 (see Technical Data on page A11).

FEATURES AND APPLICATIONS
Flat adjustable handle, open configuration to avoid any deposit of unhygienic residues or scraps and dirt.
Particularly suitable when the lever turning angle is limited owing to lack of space.
Compared to other types of adjustable handles with metal retaining screw this solution offers:
- absolute electric insulation for the operator
- no visible steel parts subject to rust
- more comfortable lever release.

STRESS RESISTANCE
See ERX. (on page 304).

INSTRUCTIONS OF USE
For clamping, lift the lever to disengage the clamping device teeth and bring it back to start position. By releasing the lever, the return spring automatically engages the teeth.

MRT-B
MRT-SST



*Complete with colour index, example: 140111-C1 MRT.42-B-M5-C1

C1 RAL7021 C2 RAL2004

MRT-B

Code	Description	R	d6H	L	D	H	H1	h	h1	h2	h3	d1	Teeth no.	⚖
140111-*	MRT.42-B-M5-*	43	M5	51	16	28	31.5	10	29	6	21.5	12	18	10
140112-*	MRT.42-B-M6-*	43	M6	51	16	28	31.5	10	29	6	21.5	12	18	9
140121-*	MRT.65-B-M6-*	64.5	M6	74.5	20	37	41	12	38	9	27	15	20	21
140122-*	MRT.65-B-M8-*	64.5	M8	74.5	20	37	41	13	38	9	27	15	20	22
140131-*	MRT.80-B-M8-*	79.5	M8	92	25	45	49	20	47	11	34.5	18.5	24	41
140132-*	MRT.80-B-M10-*	79.5	M10	92	25	45	49	18	47	11	34.5	18.5	24	40
140133-*	MRT.80-B-M12-*	79.5	M12	92	25	45	49	17	47	11	34.5	18.5	24	39

MRT-SST STAINLESS STEEL

Code	Description	R	d6H	L	D	H	H1	h	h1	h2	h3	d1	Teeth no.	⚖
140616-*	MRT.42-SST-M6-*	43	M6	51	16	28	31.5	10	29	6	21.5	12	18	9
140622-*	MRT.65-SST-M8-*	64.5	M8	74.5	20	37	41	13	38	9	27	15	20	22
140626-*	MRT.80-SST-M10-*	79.5	M10	92	25	45	49	17	47	11	34.5	18.5	24	40

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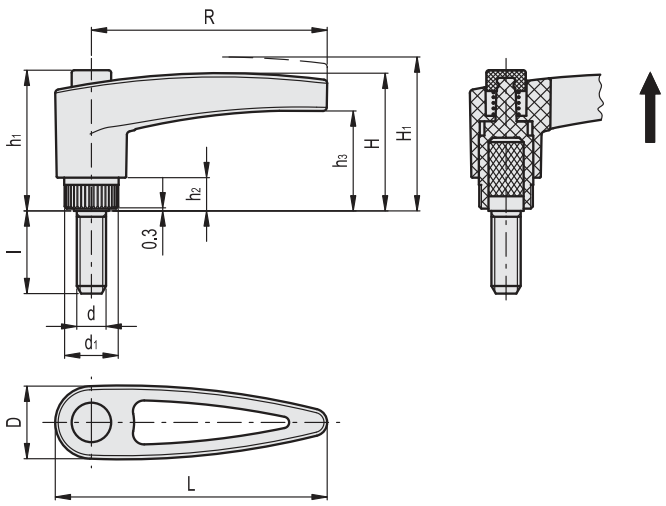
MRT-p
MRT-SST-p



*Complete with colour index, example: 140291-C1 MRT.42-p-M4x10-C1

C1 RAL7021 C2 RAL2004

MRT-p

Code	Description	R	d6g	L	D	H	H1	h1	h2	h3	d1	l	Teeth no.	⚖
140291-*	MRT.42-p-M4x10-*	43	M4	51	16	28	31.5	29	6	21.5	12	10	18	9
140303-*	MRT.42-p-M5x20-*	43	M5	51	16	28	31.5	29	6	21.5	12	20	18	12
140311-*	MRT.42-p-M6x10-*	43	M6	51	16	28	31.5	29	6	21.5	12	10	18	12
140312-*	MRT.42-p-M6x16-*	43	M6	51	16	28	31.5	29	6	21.5	12	16	18	13
140313-*	MRT.42-p-M6x20-*	43	M6	51	16	28	31.5	29	6	21.5	12	20	18	14
140315-*	MRT.42-p-M6x30-*	43	M6	51	16	28	31.5	29	6	21.5	12	30	18	16
140351-*	MRT.65-p-M8x16-*	64.5	M8	74.5	20	37	41	38	9	27	15	16	20	31
140352-*	MRT.65-p-M8x20-*	64.5	M8	74.5	20	37	41	38	9	27	15	20	20	32
140353-*	MRT.65-p-M8x25-*	64.5	M8	74.5	20	37	41	38	9	27	15	25	20	33
140354-*	MRT.65-p-M8x30-*	64.5	M8	74.5	20	37	41	38	9	27	15	30	20	34
140356-*	MRT.65-p-M8x40-*	64.5	M8	74.5	20	37	41	38	9	27	15	40	20	37
140381-*	MRT.80-p-M10x20-*	79.5	M10	92	25	45	49	47	11	34.5	18.5	20	24	54
140383-*	MRT.80-p-M10x30-*	79.5	M10	92	25	45	49	47	11	34.5	18.5	30	24	57
140385-*	MRT.80-p-M10x40-*	79.5	M10	92	25	45	49	47	11	34.5	18.5	40	24	60
140386-*	MRT.80-p-M10x50-*	79.5	M10	92	25	45	49	47	11	34.5	18.5	50	24	63
140403-*	MRT.80-p-M12x30-*	79.5	M12	92	25	45	49	47	11	34.5	18.5	30	24	58
140407-*	MRT.80-p-M12x50-*	79.5	M12	92	25	45	49	47	11	34.5	18.5	50	24	65

MRT-SST-p **STAINLESS STEEL**

Code	Description	R	d6g	L	D	H	H1	h1	h2	h3	d1	l	Teeth no.	⚖
140671-*	MRT.42-SST-p-M6x16-*	43	M6	51	16	28	31.5	29	6	21.5	12	16	18	13
140672-*	MRT.42-SST-p-M6x20-*	43	M6	51	16	28	31.5	29	6	21.5	12	20	18	14
140674-*	MRT.42-SST-p-M6x30-*	43	M6	51	16	28	31.5	29	6	21.5	12	30	18	16
140691-*	MRT.65-SST-p-M8x16-*	64.5	M8	74.5	20	37	41	38	9	27	15	16	20	31
140692-*	MRT.65-SST-p-M8x20-*	64.5	M8	74.5	20	37	41	38	9	27	15	20	20	32
140694-*	MRT.65-SST-p-M8x30-*	64.5	M8	74.5	20	37	41	38	9	27	15	30	20	34
140695-*	MRT.65-SST-p-M8x40-*	64.5	M8	74.5	20	37	41	38	9	27	15	40	20	37
140701-*	MRT.80-SST-p-M10x20-*	79.5	M10	92	25	45	49	47	11	34.5	18.5	20	24	54
140702-*	MRT.80-SST-p-M10x30-*	79.5	M10	92	25	45	49	47	11	34.5	18.5	30	24	57
140703-*	MRT.80-SST-p-M10x40-*	79.5	M10	92	25	45	49	47	11	34.5	18.5	40	24	60

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Adjustable handles

Flat lever, technopolymer

LEVER BODY
Glass-fibre reinforced polyamide based (PA) technopolymer, grey-black colour, matte finish.

PUSH BUTTON
Technopolymer in Ergostyle colours, glossy finish.

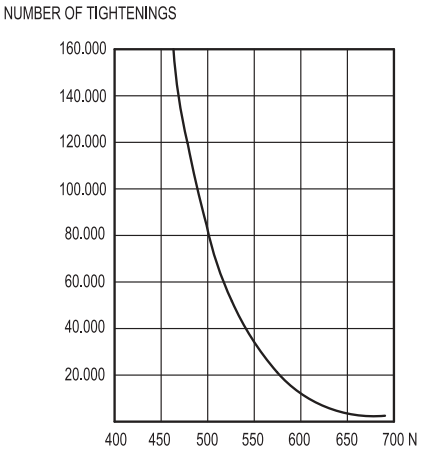
STANDARD EXECUTIONS
Glass-fibre reinforced technopolymer clamping element with retaining pin, black colour, with knurling on the protruding part to make initial tightening easier. AISI 302 stainless steel return spring.
- **ERW-B**: brass boss, threaded blind hole.
- **ERW-SST**: AISI 303 stainless steel boss, threaded blind hole.
- **ERW-p**: zinc-plated steel threaded stud, chamfered flat end UNI 947 : ISO 4753 (see Technical data on page A11).
- **ERW-SST-p**: AISI 303 stainless steel threaded stud, chamfered flat end UNI 947 : ISO 4753 (see Technical data on page A11).

FEATURES AND APPLICATIONS
Particularly suitable when the available space and operating mode make it preferable to use a flat lever instead of an inclined lever.
Compared to other types of adjustable handles with metal retaining screw this solution offers some advantages:
- absolute electric insulation for the operator
- no visible steel parts subject to rust
- more comfortable lever release.

STRESS RESISTANCE
Adjustable handles are generally used for repetitive clamping operations sometimes with very high-frequency.
Therefore, the stress resistance (i.e. the resistance to repeated tightening cycles) of the handle unit is particularly important and, especially, the strength of the toothed element which transmits the tightening force from the handle to the threaded element (boss or stud).
The results of several laboratory tests, perfomed with a special instrument that simulates the stress resistance conditions, have shown that e.g. ERW.78 adjustable handle can withstand without yielding more than 100,000 tightening cycles, under the action of a force of 490 N (see graphic).
The special glass-fibre reinforced technopolymer enables the ELESA adjustable handles to guarantee stress resistance values which are much higher than the ones generated under normal working conditions.

INSTRUCTIONS OF USE
For clamping, lift the lever to disengage the clamping device teeth and bring it back to start position. By releasing the lever, the return spring automatically engages the teeth.

ERGOSTYLE®



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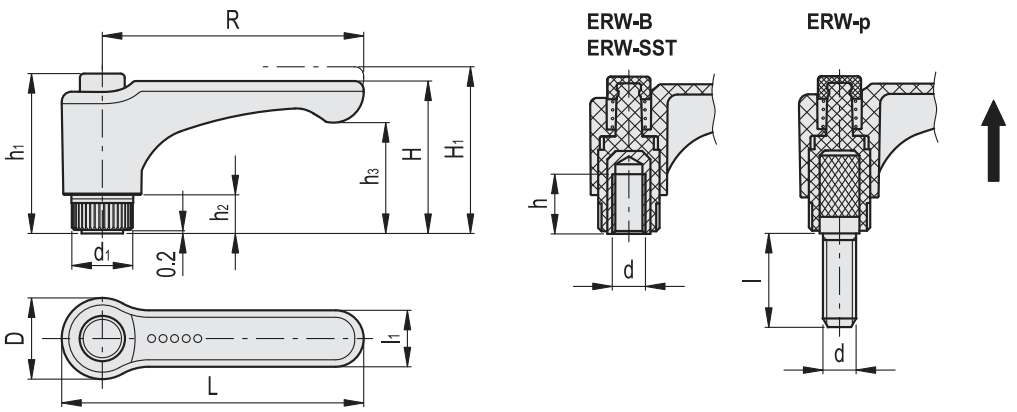

*Complete with colour index, example: 253061-C2 ERW.30-B-M3-C2

C1	C2	C3	C4	C5	C6
RAL7021	RAL2004	RAL7035	RAL1021	RAL5024	RAL3000

ERW-B

Code	Description	R	d6H	L	D	H	H1	h	h1	h2	h3	d1	l1	Teeth no.	⚖
253061-*	ERW.30-B-M3-*	30	M3	37.5	15.5	27	30.5	10	29.5	6	20.5	12	9	18	8
253066-*	ERW.30-B-M4-*	30	M4	37.5	15.5	27	30.5	10	29.5	6	20.5	12	9	18	9
253071-*	ERW.30-B-M5-*	30	M5	37.5	15.5	27	30.5	10	29.5	6	20.5	12	9	18	10
253076-*	ERW.30-B-M6-*	30	M6	37.5	15.5	27	30.5	10	29.5	6	20.5	12	9	18	11
253101-*	ERW.44-B-M5-*	44	M5	52	15.5	27	30.5	10	29.5	6	18.5	12	11	18	12
253106-*	ERW.44-B-M6-*	44	M6	52	15.5	27	30.5	10	29.5	6	18.5	12	11	18	16
253131-*	ERW.63-B-M6-*	63	M6	73.5	19	36.5	40	16	37.5	8	26.5	15	13.5	20	22
253136-*	ERW.63-B-M8-*	63	M8	73.5	19	36.5	40	13	37.5	8	26.5	15	13.5	20	31
253139-*	ERW.63-B-M10-*	63	M10	73.5	19	36.5	40	13	37.5	8	26.5	15	13.5	20	29
253151-*	ERW.78-B-M8-*	78	M8	90.5	24.5	42	45.5	20	47	12	30	19	16	24	40
253156-*	ERW.78-B-M10-*	78	M10	90.5	24.5	42	45.5	20	47	12	30	19	16	24	43
253161-*	ERW.78-B-M12-*	78	M12	90.5	24.5	42	45.5	20	47	12	30	19	16	24	46

ERW-SST **STAINLESS STEEL**

Code	Description	R	d6H	L	D	H	H1	h	h1	h2	h3	d1	l1	Teeth no.	⚖
255071-*	ERW.30-SST-M5-*	30	M5	37.5	15.5	27	30.5	6	29.5	6	20.5	12	9	18	10
255076-*	ERW.30-SST-M6-*	30	M6	37.5	15.5	27	30.5	6	29.5	6	20.5	12	9	18	11
255101-*	ERW.44-SST-M5-*	44	M5	52	15.5	27	30.5	6	29.52	6	18.5	12	11	18	12
255106-*	ERW.44-SST-M6-*	44	M6	52	15.5	27	30.5	6	29.5	6	18.5	12	11	18	16
255131-*	ERW.63-SST-M8-*	63	M6	73.5	19	36.5	40	12	37.5	8	26.5	15	13.5	20	63
255136-*	ERW.63-SST-M8-*	63	M8	73.5	19	36.5	40	12	37.5	8	26.5	15	13.5	20	31
255151-*	ERW.78-SST-M8-*	78	M8	90.5	24.5	42	45.5	13	47	12	30	19	16	24	40
255156-*	ERW.78-SST-M10-*	78	M10	90.5	24.5	42	45.5	13	47	12	30	19	16	24	43

ERW-p

Code	Description	R	d6g	L	D	H	H1	h1	h2	h3	d1	l	l1	Teeth no.	⚖
254001-*	ERW.30-p-M5x10-*	30	M5	37.5	15.5	27	30.5	29.5	6	20.5	12	10	9	18	10
254006-*	ERW.30-p-M5x16-*	30	M5	37.5	15.5	27	30.5	29.5	6	20.5	12	16	9	18	11
254011-*	ERW.30-p-M5x20-*	30	M5	37.5	15.5	27	30.5	29.5	6	20.5	12	20	9	18	11
254016-*	ERW.30-p-M6x10-*	30	M6	37.5	15.5	27	30.5	29.5	6	20.5	12	10	9	18	11
254021-*	ERW.30-p-M6x16-*	30	M6	37.5	15.5	27	30.5	29.5	6	20.5	12	16	9	18	12
254026-*	ERW.30-p-M6x20-*	30	M6	37.5	15.5	27	30.5	29.5	6	20.5	12	20	9	18	13
254031-*	ERW.30-p-M6x25-*	30	M6	37.5	15.5	27	30.5	29.5	6	20.5	12	25	9	18	14
254036-*	ERW.30-p-M6x30-*	30	M6	37.5	15.5	27	30.5	29.5	6	20.5	12	30	9	18	15
254046-*	ERW.30-p-M6x40-*	30	M6	37.5	15.5	27	30.5	29.5	6	20.5	12	40	9	18	16
254101-*	ERW.44-p-M5x10-*	44	M5	52	15.5	27	30.5	29.5	6	18.5	12	10	11	18	12
254106-*	ERW.44-p-M5x16-*	44	M5	52	15.5	27	30.5	29.5	6	18.5	12	16	11	18	13
254111-*	ERW.44-p-M5x20-*	44	M5	52	15.5	27	30.5	29.5	6	18.5	12	20	11	18	13
254116-*	ERW.44-p-M6x10-*	44	M6	52	15.5	27	30.5	29.5	6	18.5	12	10	11	18	13
254121-*	ERW.44-p-M6x16-*	44	M6	52	15.5	27	30.5	29.5	6	18.5	12	16	11	18	14
254126-*	ERW.44-p-M6x20-*	44	M6	52	15.5	27	30.5	29.5	6	18.5	12	20	11	18	15
254131-*	ERW.44-p-M6x25-*	44	M6	52	15.5	27	30.5	29.5	6	18.5	12	25	11	18	16
254136-*	ERW.44-p-M6x30-*	44	M6	52	15.5	27	30.5	29.5	6	18.5	12	30	11	18	17
254146-*	ERW.44-p-M6x40-*	44	M6	52	15.5	27	30.5	29.5	6	18.5	12	40	11	18	19
254151-*	ERW.44-p-M6x45-*	44	M6	52	15.5	27	30.5	29.5	6	18.5	12	45	11	18	20

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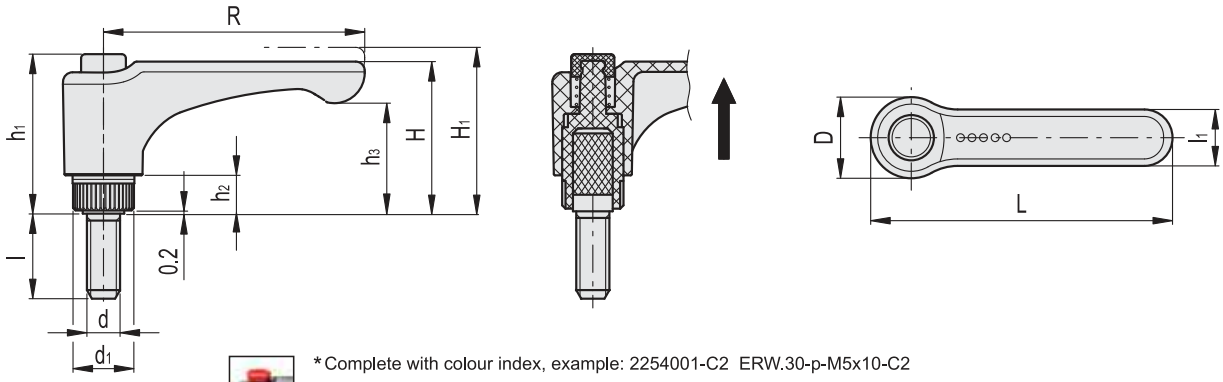
ERW-p



*Complete with colour index, example: 2254001-C2 ERW.30-p-M5x10-C2

C1	C2	C3	C4	C5	C6
RAL7021	RAL2004	RAL7035	RAL1021	RAL5024	RAL3000

ERW-p

Code	Description	R	d6g	L	D	H	H1	h1	h2	h3	d1	l	l1	Teeth no.	⚖
254301-*	ERW.63-p-M6x10-*	63	M6	73.5	19	36.5	40	37.5	8	26.5	15	10	13.5	20	23
254306-*	ERW.63-p-M6x16-*	63	M6	73.5	19	36.5	40	37.5	8	26.5	15	16	13.5	20	24
254311-*	ERW.63-p-M6x20-*	63	M6	73.5	19	36.5	40	37.5	8	26.5	15	20	13.5	20	25
254316-*	ERW.63-p-M6x25-*	63	M6	73.5	19	36.5	40	37.5	8	26.5	15	25	13.5	20	26
254321-*	ERW.63-p-M6x30-*	63	M6	73.5	19	36.5	40	37.5	8	26.5	15	30	13.5	20	27
254323-*	ERW.63-p-M6x35-*	63	M6	73.5	19	36.5	40	37.5	8	26.5	15	35	13.5	20	29
254326-*	ERW.63-p-M6x40-*	63	M6	73.5	19	36.5	40	37.5	8	26.5	15	40	13.5	20	31
254333-*	ERW.63-p-M8x16-*	63	M8	73.5	19	36.5	40	37.5	8	26.5	15	16	13.5	20	29
254336-*	ERW.63-p-M8x20-*	63	M8	73.5	19	36.5	40	37.5	8	26.5	15	20	13.5	20	30
254341-*	ERW.63-p-M8x25-*	63	M8	73.5	19	36.5	40	37.5	8	26.5	15	25	13.5	20	31
254346-*	ERW.63-p-M8x30-*	63	M8	73.5	19	36.5	40	37.5	8	26.5	15	30	13.5	20	33
254351-*	ERW.63-p-M8x35-*	63	M8	73.5	19	36.5	40	37.5	8	26.5	15	35	13.5	20	35
254356-*	ERW.63-p-M8x40-*	63	M8	73.5	19	36.5	40	37.5	8	26.5	15	40	13.5	20	37
254361-*	ERW.63-p-M8x45-*	63	M8	73.5	19	36.5	40	37.5	8	26.5	15	45	13.5	20	38
254366-*	ERW.63-p-M8x50-*	63	M8	73.5	19	36.5	40	37.5	8	26.5	15	50	13.5	20	39
254371-*	ERW.63-p-M8x60-*	63	M8	73.5	19	36.5	40	37.5	8	26.5	15	60	13.5	20	42
254376-*	ERW.63-p-M8x70-*	63	M8	73.5	19	36.5	40	37.5	8	26.5	15	70	13.5	20	45
254391-*	ERW.63-p-M10x20-*	63	M10	73.5	19	36.5	40	37.5	8	26.5	15	20	13.5	20	35
254393-*	ERW.63-p-M10x30-*	63	M10	73.5	19	36.5	40	37.5	8	26.5	15	30	13.5	20	38
254395-*	ERW.63-p-M10x40-*	63	M10	73.5	19	36.5	40	37.5	8	26.5	15	40	13.5	20	42
254397-*	ERW.63-p-M10x50-*	63	M10	73.5	19	36.5	40	37.5	8	26.5	15	50	13.5	20	44
254399-*	ERW.63-p-M10x60-*	63	M10	73.5	19	36.5	40	37.5	8	26.5	15	60	13.5	20	47
254498-*	ERW.78-p-M8x20-*	78	M8	90.5	24.5	42	45.5	47	12	30	19	20	16	24	48
254501-*	ERW.78-p-M8x25-*	78	M8	90.5	24.5	42	45.5	47	12	30	19	25	16	24	49
254503-*	ERW.78-p-M8x30-*	78	M8	90.5	24.5	42	45.5	47	12	30	19	30	16	24	50
254506-*	ERW.78-p-M8x40-*	78	M8	90.5	24.5	42	45.5	47	12	30	19	40	16	24	52
254507-*	ERW.78-p-M8x45-*	78	M8	90.5	24.5	42	45.5	47	12	30	19	45	16	24	53
254509-*	ERW.78-p-M8x50-*	78	M8	90.5	24.5	42	45.5	47	12	30	19	50	16	24	54
254511-*	ERW.78-p-M8x55-*	78	M8	90.5	24.5	42	45.5	47	12	30	19	55	16	24	55
254513-*	ERW.78-p-M8x60-*	78	M8	90.5	24.5	42	45.5	47	12	30	19	60	16	24	56
254515-*	ERW.78-p-M8x70-*	78	M8	90.5	24.5	42	45.5	47	12	30	19	70	16	24	58
254516-*	ERW.78-p-M10x20-*	78	M10	90.5	24.5	42	45.5	47	12	30	19	20	16	24	55
254521-*	ERW.78-p-M10x25-*	78	M10	90.5	24.5	42	45.5	47	12	30	19	25	16	24	58
254526-*	ERW.78-p-M10x30-*	78	M10	90.5	24.5	42	45.5	47	12	30	19	30	16	24	60
254531-*	ERW.78-p-M10x35-*	78	M10	90.5	24.5	42	45.5	47	12	30	19	35	16	24	62
254536-*	ERW.78-p-M10x40-*	78	M10	90.5	24.5	42	45.5	47	12	30	19	40	16	24	65
254541-*	ERW.78-p-M10x50-*	78	M10	90.5	24.5	42	45.5	47	12	30	19	50	16	24	69
254546-*	ERW.78-p-M10x60-*	78	M10	90.5	24.5	42	45.5	47	12	30	19	60	16	24	74
254551-*	ERW.78-p-M10x70-*	78	M10	90.5	24.5	42	45.5	47	12	30	19	70	16	24	79
254561-*	ERW.78-p-M12x20-*	78	M12	90.5	24.5	42	45.5	47	12	30	19	20	16	24	64
254566-*	ERW.78-p-M12x25-*	78	M12	90.5	24.5	42	45.5	47	12	30	19	25	16	24	67
254571-*	ERW.78-p-M12x30-*	78	M12	90.5	24.5	42	45.5	47	12	30	19	30	16	24	70
254573-*	ERW.78-p-M12x35-*	78	M12	90.5	24.5	42	45.5	47	12	30	19	35	16	24	74
254576-*	ERW.78-p-M12x40-*	78	M12	90.5	24.5	42	45.5	47	12	30	19	40	16	24	77
254581-*	ERW.78-p-M12x45-*	78	M12	90.5	24.5	42	45.5	47	12	30	19	45	16	24	80
254586-*	ERW.78-p-M12x50-*	78	M12	90.5	24.5	42	45.5	47	12	30	19	50	16	24	84
254591-*	ERW.78-p-M12x60-*	78	M12	90.5	24.5	42	45.5	47	12	30	19	60	16	24	91
254593-*	ERW.78-p-M12x70-*	78	M12	90.5	24.5	42	45.5	47	12	30	19	70	16	24	98
254596-*	ERW.78-p-M1280-*	78	M12	90.5	24.5	42	45.5	47	12	30	19	80	16	24	105

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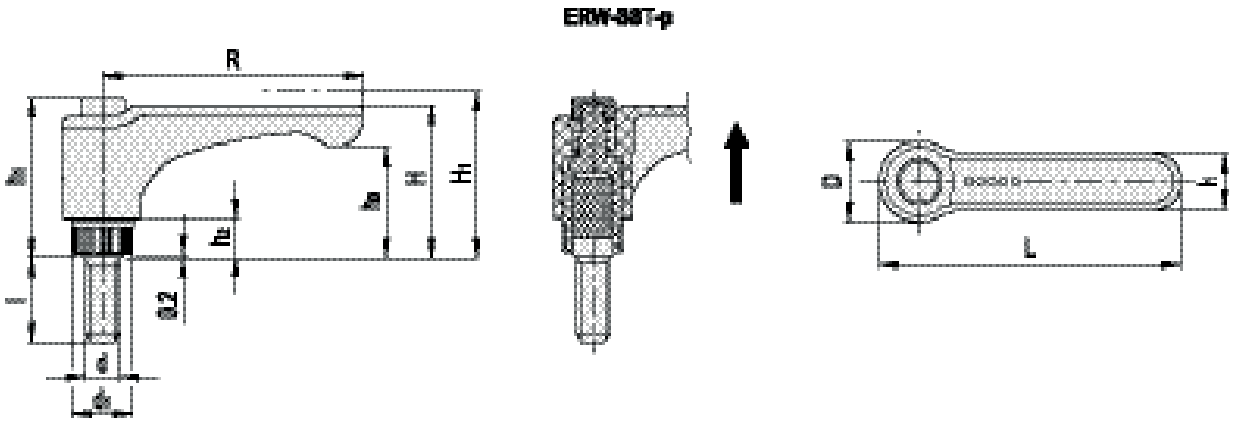

*Complete with colour index, example: 255061-C2 ERW.30-SST-p-M5x10-C2

C1	C2	C3	C4	C5	C6
RAL7021	RAL2004	RAL7035	RAL1021	RAL5024	RAL3000

ERW-SST-p **STAINLESS STEEL**

Code	Description	R	d6g	L	D	H	H1	h1	h2	h3	d1	l	l1	Teeth no.	⚖
255061-*	ERW.30-SST-p-M5x10-*	30	M5	37.5	15.5	27	30.5	29.5	6	20.5	12	10	9	18	10
255066-*	ERW.30-SST-p-M5x16-*	30	M5	37.5	15.5	27	30.5	29.5	6	20.5	12	16	9	18	11
255196-*	ERW.30-SST-p-M6x10-*	30	M6	37.5	15.5	27	30.5	29.5	6	20.5	12	10	9	18	11
255201-*	ERW.30-SST-p-M6X16-*	30	M6	37.5	15.5	27	30.5	29.5	6	20.5	12	16	9	18	12
255203-*	ERW.30-SST-p-M6x20-*	30	M6	37.5	15.5	27	30.5	29.5	6	20.5	12	20	9	18	13
255205-*	ERW.30-SST-p-M6x25-*	30	M6	37.5	15.5	27	30.5	29.5	6	20.5	12	25	9	18	14
255207-*	ERW.30-SST-p-M6x30-*	30	M6	37.5	15.5	27	30.5	29.5	6	20.5	12	30	9	18	15
255209-*	ERW.44-SST-p-M5x10-*	44	M5	52	15.5	27	30.5	29.5	6	18.5	12	10	11	18	12
255211-*	ERW.44-SST-p-M5x16-*	44	M5	52	15.5	27	30.5	29.5	6	18.5	12	16	11	18	13
255216-*	ERW.44-SST-p-M6x10-*	44	M6	52	15.5	27	30.5	29.5	6	18.5	12	10	11	18	13
255221-*	ERW.44-SST-p-M6x16-*	44	M6	52	15.5	27	30.5	29.5	6	18.5	12	16	11	18	14
255226-*	ERW.44-SST-p-M6x20-*	44	M6	52	15.5	27	30.5	29.5	6	18.5	12	20	11	18	15
255231-*	ERW.44-SST-p-M6x25-*	44	M6	52	15.5	27	30.5	29.5	6	18.5	12	25	11	18	16
255236-*	ERW.44-SST-p-M6x30-*	44	M6	52	15.5	27	30.5	29.5	6	18.5	12	30	11	18	17
255341-*	ERW.63-SST-p-M6x10-*	63	M6	73.5	19	36.5	40	37.5	8	26.5	15	10	13.5	20	23
255351-*	ERW.63-SST-p-M6x20-*	63	M6	73.5	19	36.5	40	37.5	8	26.5	15	20	13.5	20	25
255421-*	ERW.63-SST-p-M6x30-*	63	M6	73.5	19	36.5	40	37.5	8	26.5	15	30	13.5	20	27
255426-*	ERW.63-SST-p-M6x40-*	63	M6	73.5	19	36.5	40	37.5	8	26.5	15	40	13.5	20	31
255431-*	ERW.63-SST-p-M8x16-*	63	M8	73.5	19	36.5	40	37.5	8	26.5	15	16	13.5	20	29
255436-*	ERW.63-SST-p-M8x20-*	63	M8	73.5	19	36.5	40	37.5	8	26.5	15	20	13.5	20	30
255441-*	ERW.63-SST-p-M8x25-*	63	M8	73.5	19	36.5	40	37.5	8	26.5	15	25	13.5	20	31
255446-*	ERW.63-SST-p-M8x30-*	63	M8	73.5	19	36.5	40	37.5	8	26.5	15	30	13.5	20	33
255451-*	ERW.63-SST-p-M8x35-*	63	M8	73.5	19	36.5	40	37.5	8	26.5	15	35	13.5	20	35
255456-*	ERW.63-SST-p-M8x40-*	63	M8	73.5	19	36.5	40	37.5	8	26.5	15	40	13.5	20	37
255461-*	ERW.63-SST-p-M8x45-*	63	M8	73.5	19	36.5	40	37.5	8	26.5	15	45	13.5	20	38
255466-*	ERW.63-SST-p-M8x50-*	63	M8	73.5	19	36.5	40	37.5	8	26.5	15	50	13.5	20	39
255471-*	ERW.63-SST-p-M8x60-*	63	M8	73.5	19	36.5	40	37.5	8	26.5	15	60	13.5	20	42
255476-*	ERW.63-SST-p-M8x70-*	63	M8	73.5	19	36.5	40	37.5	8	26.5	15	70	13.5	20	45
255601-*	ERW.78-SST-p-M8x-20-*	78	M8	90.5	24.5	42	45.5	47	12	30	19	20	16	24	48
255603-*	ERW.78-SST-p-M8x-25-*	78	M8	90.5	24.5	42	45.5	47	12	30	19	25	16	24	49
255605-*	ERW.78-SST-p-M8x-30-*	78	M8	90.5	24.5	42	45.5	47	12	30	19	30	16	24	50
255607-*	ERW.78-SST-p-M8x-40-*	78	M8	90.5	24.5	42	45.5	47	12	30	19	40	16	24	52
255609-*	ERW.78-SST-p-M8x-45-*	78	M8	90.5	24.5	42	45.5	47	12	30	19	45	16	24	53
255611-*	ERW.78-SST-p-M8x-50-*	78	M8	90.5	24.5	42	45.5	47	12	30	19	50	16	24	54
255617-*	ERW.78-SST-p-M8x-70-*	78	M8	90.5	24.5	42	45.5	47	12	30	19	70	16	24	58
255716-*	ERW.78-SST-p-M10x-20-*	78	M10	90.5	24.5	42	45.5	47	12	30	19	20	16	24	55
255726-*	ERW.78-SST-p-M10x-30-*	78	M10	90.5	24.5	42	45.5	47	12	30	19	30	16	24	61
255731-*	ERW.78-SST-p-M10x-35-*	78	M10	90.5	24.5	42	45.5	47	12	30	19	35	16	24	63
255736-*	ERW.78-SST-p-M10x-40-*	78	M10	90.5	24.5	42	45.5	47	12	30	19	40	16	24	66
255741-*	ERW.78-SST-p-M10x-50-*	78	M10	90.5	24.5	42	45.5	47	12	30	19	50	16	24	70
255746-*	ERW.78-SST-p-M10x-60-*	78	M10	90.5	24.5	42	45.5	47	12	30	19	60	16	24	75
255771-*	ERW.78-SST-p-M12x-30-*	78	M12	90.5	24.5	42	45.5	47	12	30	19	30	16	24	71
255773-*	ERW.78-SST-p-M12x-35-*	78	M12	90.5	24.5	42	45.5	47	12	30	19	35	16	24	75
255781-*	ERW.78-SST-p-M12x-40-*	78	M12	90.5	24.5	42	45.5	47	12	30	19	40	16	24	78
255786-*	ERW.78-SST-p-M12x-50-*	78	M12	90.5	24.5	42	45.5	47	12	30	19	50	16	24	84
255893-*	ERW.78-SST-p-M12x-70-*	78	M12	90.5	24.5	42	45.5	47	12	30	19	70	16	24	99

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Adjustable hand levers

Zinc die casting, Bushing /Threaded bolt Steel

SPECIFICATION

Handle
Zinc die casting

plastic coated
black, RAL 9005, textured finish **SW**
orange, RAL 2004, textured finish **OS**
red, RAL 3000, textured finish **RS**
silver, RAL 9006, textured finish **SR**

Version with threaded insert

Threaded bush and retaining screw
Steel, blackened

Version with threaded stud

Threaded stud and retaining screw
Steel (5.8), blackened

INFORMATION

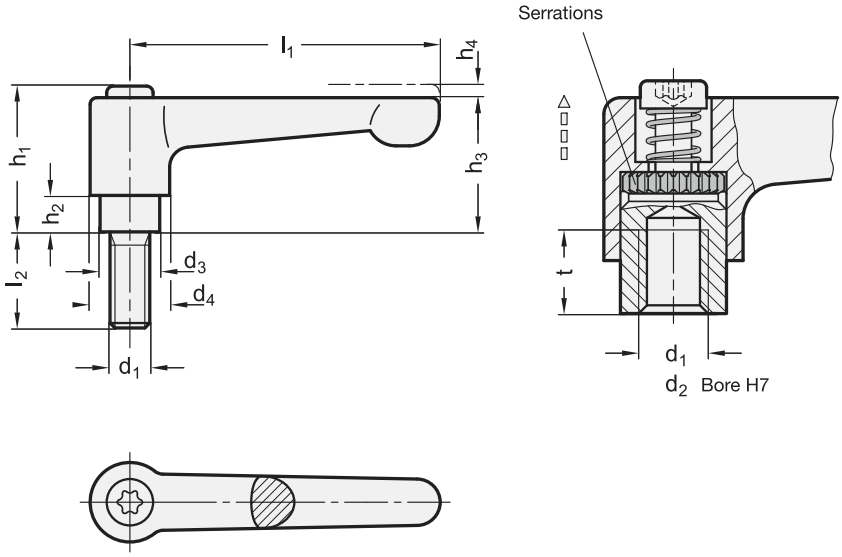
Adjustable hand levers GN 302 have a straight lever, not inclined, being parallel to the clamping space.
Adjustable hand levers are ideal whenever parts have to be clamped in a confined space or in a particular lever position. The centre insert is connected to the lever via serrations which can easily be disengaged
Pulling the lever, disengages the serrations and allowing it to be swivelled to the ideal clamping position. On releasing the lever the serrations automatically re-engage.

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)

ON REQUEST

- with insert in Stainless Steel
- with push-button



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GN 302 | Adjustable hand levers

* Complete with colour index of the clamping lever body (SW, OS, RS or SR)

SW RAL9005 | OS RAL2004 | RS RAL3000 | SR RAL9006

GN 302-with threaded insert

Description	l1	d1	d2 H7	d3	d4	h1	h2	h3	h4	t min.	⚖
GN 302-30-B5-*	30	-	B 5	10	13	24.5	4	22	3.5	9	24
GN 302-30-B6-*	30	-	B 6	10	13	24.5	4	22	3.5	9	20
GN 302-30-M3-*	30	M 3	-	10	13	24.5	4	22	3.5	7	26
GN 302-30-M4-*	30	M 4	-	10	13	24.5	4	22	3.5	9	26
GN 302-30-M5-*	30	M 5	-	10	13	24.5	4	22	3.5	9	24
GN 302-30-M6-*	30	M 6	-	10	13	24.5	4	22	3.5	9	20
GN 302-45-B5-*	45	-	B 5	10	13	24.5	4	22	3.5	9	31
GN 302-45-B6-*	45	-	B 6	10	13	24.5	4	22	3.5	9	30
GN 302-45-M4-*	45	M 4	-	10	13	24.5	4	22	3.5	9	32
GN 302-45-M5-*	45	M 5	-	10	13	24.5	4	22	3.5	9	32
GN 302-45-M6-*	45	M 6	-	10	13	24.5	4	22	3.5	9	31
GN 302-63-B8-*	63	-	B 8	13.5	17.5	31	6.5	28.5	4	11	72
GN 302-63-M6-*	63	M 6	-	13.5	17.5	31	6.5	28.5	4	11	74
GN 302-63-M8-*	63	M 8	-	13.5	17.5	31	6.5	28.5	4	11	74
GN 302-78-B8-*	78	-	B 8	16	21	36	8	34	4	14	120
GN 302-78-B10-*	78	-	B 10	16	21	36	8	34	4	14	116
GN 302-78-M8-*	78	M 8	-	16	21	36	8	34	4	14	121
GN 302-78-M10-*	78	M 10	-	16	21	36	8	34	4	14	117

GN 302-with threaded stud

Description	l1	d1	l2	d3	d4	h1	h2	h3	h4	⚖
GN 302-30-M3-6-*	30	M 3	6	10	13	24.5	4	22	3.5	27
GN 302-30-M3-8-*	30	M 3	8	10	13	24.5	4	22	3.5	27
GN 302-30-M3-10-*	30	M 3	10	10	13	24.5	4	22	3.5	27
GN 302-30-M3-12-*	30	M 3	12	10	13	24.5	4	22	3.5	27
GN 302-30-M3-16-*	30	M 3	16	10	13	24.5	4	22	3.5	27
GN 302-30-M4-12-*	30	M 4	12	10	13	24.5	4	22	3.5	28
GN 302-30-M4-16-*	30	M 4	16	10	13	24.5	4	22	3.5	28
GN 302-30-M4-20-*	30	M 4	20	10	13	24.5	4	22	3.5	28
GN 302-30-M4-25-*	30	M 4	25	10	13	24.5	4	22	3.5	29
GN 302-30-M4-32-*	30	M 4	32	10	13	24.5	4	22	3.5	29
GN 302-45-M4-12-*	45	M 4	12	10	13	24.5	4	22	3.5	36
GN 302-45-M4-16-*	45	M 4	16	10	13	24.5	4	22	3.5	37
GN 302-45-M4-20-*	45	M 4	20	10	13	24.5	4	22	3.5	37
GN 302-45-M4-25-*	45	M 4	25	10	13	24.5	4	22	3.5	38
GN 302-45-M4-32-*	45	M 4	32	10	13	24.5	4	22	3.5	39
GN 302-45-M5-12-*	45	M 5	12	10	13	24.5	4	22	3.5	31
GN 302-45-M5-16-*	45	M 5	16	10	13	24.5	4	22	3.5	35
GN 302-45-M5-20-*	45	M 5	20	10	13	24.5	4	22	3.5	40
GN 302-45-M5-25-*	45	M 5	25	10	13	24.5	4	22	3.5	40
GN 302-45-M5-32-*	45	M 5	32	10	13	24.5	4	22	3.5	40
GN 302-45-M5-40-*	45	M 5	40	10	13	24.5	4	22	3.5	50
GN 302-45-M5-50-*	45	M 5	50	10	13	24.5	4	22	3.5	50
GN 302-45-M6-12-*	45	M 6	12	10	13	24.5	4	22	3.5	34
GN 302-45-M6-16-*	45	M 6	16	10	13	24.5	4	22	3.5	35
GN 302-45-M6-20-*	45	M 6	20	10	13	24.5	4	22	3.5	37
GN 302-45-M6-25-*	45	M 6	25	10	13	24.5	4	22	3.5	37
GN 302-45-M6-32-*	45	M 6	32	10	13	24.5	4	22	3.5	40
GN 302-45-M6-40-*	45	M 6	40	10	13	24.5	4	22	3.5	40
GN 302-45-M6-50-*	45	M 6	50	10	13	24.5	4	22	3.5	46

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GN 302 | Adjustable hand levers

* Complete with colour index of the clamping lever body (SW, OS, RS or SR)

SW	OS	RS	SR
RAL9005	RAL2004	RAL3000	RAL9006

GN 302-with threaded stud

Description	l1	d1	l2	d3	d4	h1	h2	h3	h4	⚖
GN 302-63-M6-12-*	63	M 6	12	13.5	17.5	31	6.5	28.5	4	78
GN 302-63-M6-16-*	63	M 6	16	13.5	17.5	31	6.5	28.5	4	78
GN 302-63-M6-20-*	63	M 6	20	13.5	17.5	31	6.5	28.5	4	79
GN 302-63-M6-25-*	63	M 6	25	13.5	17.5	31	6.5	28.5	4	80
GN 302-63-M6-32-*	63	M 6	32	13.5	17.5	31	6.5	28.5	4	81
GN 302-63-M6-40-*	63	M 6	40	13.5	17.5	31	6.5	28.5	4	83
GN 302-63-M6-50-*	63	M 6	50	13.5	17.5	31	6.5	28.5	4	84
GN 302-63-M6-63-*	63	M 6	63	13.5	17.5	31	6.5	28.5	4	86
GN 302-63-M8-12-*	63	M 8	12	13.5	17.5	31	6.5	28.5	4	80
GN 302-63-M8-16-*	63	M 8	16	13.5	17.5	31	6.5	28.5	4	82
GN 302-63-M8-20-*	63	M 8	20	13.5	17.5	31	6.5	28.5	4	82
GN 302-63-M8-25-*	63	M 8	25	13.5	17.5	31	6.5	28.5	4	84
GN 302-63-M8-32-*	63	M 8	32	13.5	17.5	31	6.5	28.5	4	86
GN 302-63-M8-40-*	63	M 8	40	13.5	17.5	31	6.5	28.5	4	89
GN 302-63-M8-50-*	63	M 8	50	13.5	17.5	31	6.5	28.5	4	91
GN 302-63-M8-63-*	63	M 8	63	13.5	17.5	31	6.5	28.5	4	96
GN 302-63-M10-20-*	63	M 10	20	13.5	17.5	31	6.5	28.5	4	80
GN 302-63-M10-25-*	63	M 10	25	13.5	17.5	31	6.5	28.5	4	88
GN 302-63-M10-32-*	63	M 10	32	13.5	17.5	31	6.5	28.5	4	93
GN 302-63-M10-40-*	63	M 10	40	13.5	17.5	31	6.5	28.5	4	97
GN 302-63-M10-50-*	63	M 10	50	13.5	17.5	31	6.5	28.5	4	100
GN 302-63-M10-63-*	63	M 10	63	13.5	17.5	31	6.5	28.5	4	110
GN 302-63-M10-80-*	63	M 10	80	13.5	17.5	31	6.5	28.5	4	120
GN 302-78-M8-16-*	78	M 8	16	16	21	36	8	34	4	130
GN 302-78-M8-20-*	78	M 8	20	16	21	36	8	34	4	130
GN 302-78-M8-25-*	78	M 8	25	16	21	36	8	34	4	140
GN 302-78-M8-32-*	78	M 8	32	16	21	36	8	34	4	140
GN 302-78-M8-40-*	78	M 8	40	16	21	36	8	34	4	140
GN 302-78-M8-50-*	78	M 8	50	16	21	36	8	34	4	141
GN 302-78-M8-63-*	78	M 8	63	16	21	36	8	34	4	141
GN 302-78-M8-80-*	78	M 8	80	16	21	36	8	34	4	160
GN 302-78-M10-16-*	78	M 10	16	16	21	36	8	34	4	137
GN 302-78-M10-20-*	78	M 10	20	16	21	36	8	34	4	139
GN 302-78-M10-25-*	78	M 10	25	16	21	36	8	34	4	140
GN 302-78-M10-32-*	78	M 10	32	16	21	36	8	34	4	141
GN 302-78-M10-40-*	78	M 10	40	16	21	36	8	34	4	145
GN 302-78-M10-50-*	78	M 10	50	16	21	36	8	34	4	150
GN 302-78-M10-63-*	78	M 10	63	16	21	36	8	34	4	150
GN 302-78-M10-80-*	78	M 10	80	16	21	36	8	34	4	150
GN 302-78-M12-25-*	78	M 12	25	16	21	36	8	34	4	140
GN 302-78-M12-32-*	78	M 12	32	16	21	36	8	34	4	145
GN 302-78-M12-40-*	78	M 12	40	16	21	36	8	34	4	150
GN 302-78-M12-50-*	78	M 12	50	16	21	36	8	34	4	162
GN 302-78-M12-63-*	78	M 12	63	16	21	36	8	34	4	180
GN 302-78-M12-80-*	78	M 12	80	16	21	36	8	34	4	180

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GN 212.3

Adjustable tension levers

Steel, blackened

SPECIFICATION

Types

- Type **E**: angled lever
- Type **D**: straight lever

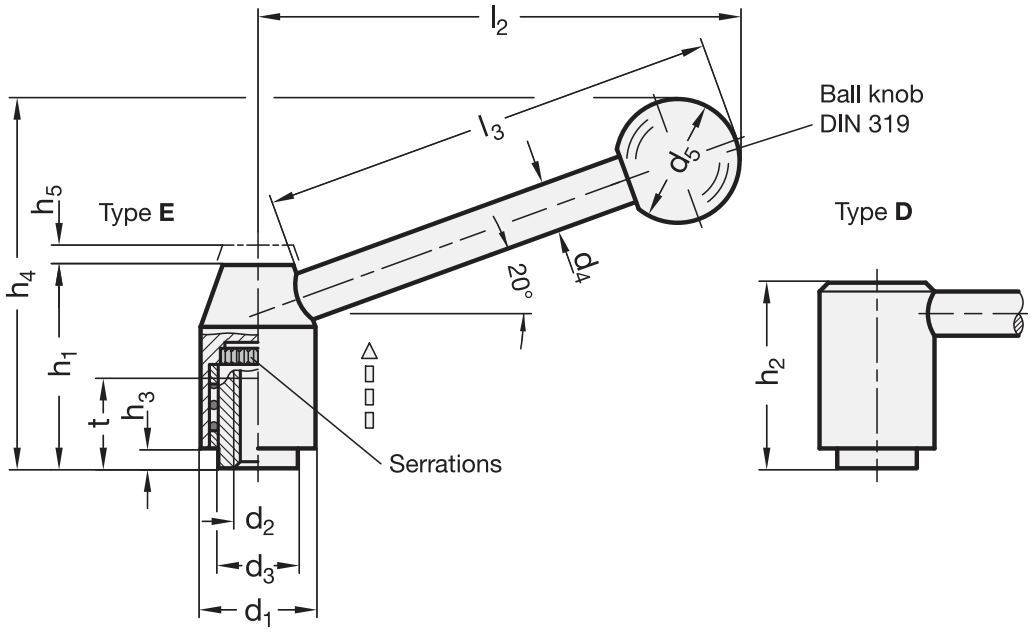
Steel
blackened

Tensile strength class 5.8

Ball knobs DIN 319 (see page 538)
Plastic, Duroplast
black, shiny finish

INFORMATION

Adjustable tension levers GN 212.3 have proved to be ideal whenever parts have to be clamped in a confined space or a particular lever position is required. The threaded insert is connected with the hub via serrations which can be disengaged.
Pulling the lever, disengages the serrations and allowing it to be swivelled to the ideal clamping position. On releasing the lever it will automatically re-engage.



*Complete with type of the Adjustable tension levers (E or D)

E	D
Angled lever	Straight lever

GN 212.3-with threaded insert

Description	d1	d2	d3	d4	d5	h1	h2	h3	h4 ≈ Type E	h4 ≈ Type D	h5	l2 ≈ Type E	l2 ≈ Type D	l3 ≈	t min.	⚖
GN 212.3-21-M6-*	21	M 6	13.5	8	20	33.5	31	1	59	36	4	75	80.5	70	11	97
GN 212.3-21-M8-*	21	M 8	13.5	8	20	33.5	31	1	59	36	4	75	80.5	70	11	93
GN 212.3-24-M8-*	24	M 8	16	10	25	40	37	2.5	75	43.5	4.5	101	108	96	14	161
GN 212.3-24-M10-*	24	M 10	16	10	25	40	37	2.5	75	43.5	4.5	101	108	96	14	157
GN 212.3-28-M10-*	28	M 10	19	12	30	48.5	44.5	4.5	89	52.5	4.5	116	124	110	17	264
GN 212.3-28-M12-*	28	M 12	19	12	30	48.5	44.5	4.5	89	52.5	4.5	116	124	110	17	258
GN 212.3-33-M12-*	33	M 12	23	12	32	55	51.5	6	100.5	60	5.5	131.5	140.5	124	22	381
GN 212.3-33-M14-*	33	M 14	23	12	32	55	51.5	6	100.5	60	5.5	131.5	140.5	124	22	373
GN 212.3-33-M16-*	33	M 16	23	12	32	55	51.5	6	100.5	60	5.5	131.5	140.5	124	22	364
GN 212.3-40-M16-*	40	M 16	28	14	35	68	64	6	118	71.5	5.5	148	158	138	36	638
GN 212.3-40-M20-*	40	M 20	28	14	35	68	64	6	118	71.5	5.5	148	158	138	36	608

Weight type E

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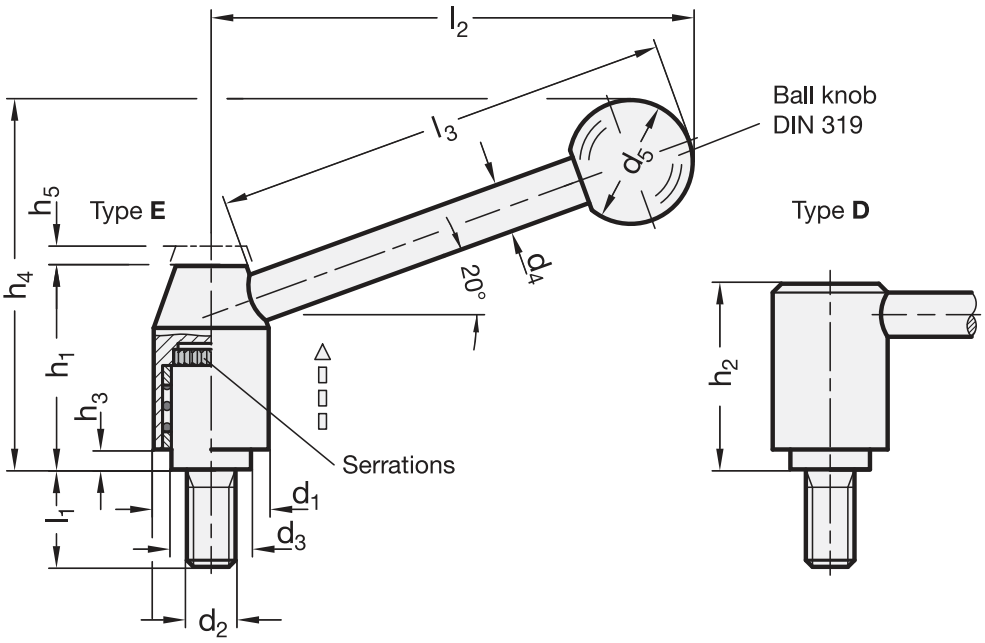
GN 212.3 | Adjustable tension levers



*Complete with type of the Adjustable tension levers (E or D)

E Angled lever **D** Straight lever

GN 212.3-with threaded stud

Description	d1	d2	l1	d3	d4	d5	h1	h2	h3	h4 ≈ Type E	h4 ≈ Type D	h5	l2 ≈ Type E	l2 ≈ Type D	l3 ≈	⚖
GN 212.3-21-M8-12-*	21	M 8	12	13.5	8	20	33.5	31	1	59	36	4	75	80.5	70	103
GN 212.3-21-M8-16-*	21	M 8	16	13.5	8	20	33.5	31	1	59	36	4	75	80.5	70	104
GN 212.3-21-M8-20-*	21	M 8	20	13.5	8	20	33.5	31	1	59	36	4	75	80.5	70	105
GN 212.3-21-M8-25-*	21	M 8	25	13.5	8	20	33.5	31	1	59	36	4	75	80.5	70	107
GN 212.3-21-M8-32-*	21	M 8	32	13.5	8	20	33.5	31	1	59	36	4	75	80.5	70	109
GN 212.3-21-M8-40-*	21	M 8	40	13.5	8	20	33.5	31	1	59	36	4	75	80.5	70	112
GN 212.3-21-M8-50-*	21	M 8	50	13.5	8	20	33.5	31	1	59	36	4	75	80.5	70	114
GN 212.3-21-M8-63-*	21	M 8	63	13.5	8	20	33.5	31	1	59	36	4	75	80.5	70	119
GN 212.3-21-M10-20-*	21	M 10	20	13.5	8	20	33.5	31	1	59	36	4	75	80.5	70	108
GN 212.3-21-M10-25-*	21	M 10	25	13.5	8	20	33.5	31	1	59	36	4	75	80.5	70	111
GN 212.3-21-M10-32-*	21	M 10	32	13.5	8	20	33.5	31	1	59	36	4	75	80.5	70	115
GN 212.3-21-M10-40-*	21	M 10	40	13.5	8	20	33.5	31	1	59	36	4	75	80.5	70	117
GN 212.3-21-M10-50-*	21	M 10	50	13.5	8	20	33.5	31	1	59	36	4	75	80.5	70	122
GN 212.3-21-M10-63-*	21	M 10	63	13.5	8	20	33.5	31	1	59	36	4	75	80.5	70	126
GN 212.3-21-M10-80-*	21	M 10	80	13.5	8	20	33.5	31	1	59	36	4	75	80.5	70	136
GN 212.3-24-M10-16-*	24	M 10	16	16	10	25	40	37	2.5	75	43.5	4.5	101	108	96	174
GN 212.3-24-M10-20-*	24	M 10	20	16	10	25	40	37	2.5	75	43.5	4.5	101	108	96	175
GN 212.3-24-M10-25-*	24	M 10	25	16	10	25	40	37	2.5	75	43.5	4.5	101	108	96	177
GN 212.3-24-M10-32-*	24	M 10	32	16	10	25	40	37	2.5	75	43.5	4.5	101	108	96	180
GN 212.3-24-M10-40-*	24	M 10	40	16	10	25	40	37	2.5	75	43.5	4.5	101	108	96	184
GN 212.3-24-M10-50-*	24	M 10	50	16	10	25	40	37	2.5	75	43.5	4.5	101	108	96	190
GN 212.3-24-M10-63-*	24	M 10	63	16	10	25	40	37	2.5	75	43.5	4.5	101	108	96	197
GN 212.3-24-M10-80-*	24	M 10	80	16	10	25	40	37	2.5	75	43.5	4.5	101	108	96	204

Weight type E

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GN 212.3 | Adjustable tension levers

*Complete with type of the Adjustable tension levers (E or D)

E Angled lever **D** Straight lever

GN 212.3-with threaded stud

Description	d1	d2	l1	d3	d4	d5	h1	h2	h3	h4 ≈ Type E	h4 ≈ Type D	h5	l2 ≈ Type E	l2 ≈ Type D	l3 ≈	⚖
GN 212.3-24-M12-25-*	24	M 12	25	16	10	25	40	37	2.5	75	43.5	4.5	101	108	96	183
GN 212.3-24-M12-32-*	24	M 12	32	16	10	25	40	37	2.5	75	43.5	4.5	101	108	96	188
GN 212.3-24-M12-40-*	24	M 12	40	16	10	25	40	37	2.5	75	43.5	4.5	101	108	96	194
GN 212.3-24-M12-50-*	24	M 12	50	16	10	25	40	37	2.5	75	43.5	4.5	101	108	96	201
GN 212.3-24-M12-63-*	24	M 12	63	16	10	25	40	37	2.5	75	43.5	4.5	101	108	96	209
GN 212.3-24-M12-80-*	24	M 12	80	16	10	25	40	37	2.5	75	43.5	4.5	101	108	96	217
GN 212.3-28-M10-16-*	28	M 10	16	19	12	30	48.5	44.5	4.5	89	52.5	4.5	116	124	110	277
GN 212.3-28-M10-20-*	28	M 10	20	19	12	30	48.5	44.5	4.5	89	52.5	4.5	116	124	110	280
GN 212.3-28-M10-25-*	28	M 10	25	19	12	30	48.5	44.5	4.5	89	52.5	4.5	116	124	110	285
GN 212.3-28-M10-32-*	28	M 10	32	19	12	30	48.5	44.5	4.5	89	52.5	4.5	116	124	110	289
GN 212.3-28-M10-40-*	28	M 10	40	19	12	30	48.5	44.5	4.5	89	52.5	4.5	116	124	110	311
GN 212.3-28-M10-50-*	28	M 10	50	19	12	30	48.5	44.5	4.5	89	52.5	4.5	116	124	110	312
GN 212.3-28-M10-63-*	28	M 10	63	19	12	30	48.5	44.5	4.5	89	52.5	4.5	116	124	110	312
GN 212.3-28-M12-16-*	28	M 12	16	19	12	30	48.5	44.5	4.5	89	52.5	4.5	116	124	110	286
GN 212.3-28-M12-20-*	28	M 12	20	19	12	30	48.5	44.5	4.5	89	52.5	4.5	116	124	110	287
GN 212.3-28-M12-25-*	28	M 12	25	19	12	30	48.5	44.5	4.5	89	52.5	4.5	116	124	110	292
GN 212.3-28-M12-32-*	28	M 12	32	19	12	30	48.5	44.5	4.5	89	52.5	4.5	116	124	110	297
GN 212.3-28-M12-40-*	28	M 12	40	19	12	30	48.5	44.5	4.5	89	52.5	4.5	116	124	110	302
GN 212.3-28-M12-50-*	28	M 12	50	19	12	30	48.5	44.5	4.5	89	52.5	4.5	116	124	110	309
GN 212.3-28-M12-63-*	28	M 12	63	19	12	30	48.5	44.5	4.5	89	52.5	4.5	116	124	110	319
GN 212.3-28-M12-80-*	28	M 12	80	19	12	30	48.5	44.5	4.5	89	52.5	4.5	116	124	110	330
GN 212.3-33-M12-25-*	33	M 12	25	23	12	32	55	51.5	6	100.5	60	5.5	131.5	140.5	124	428
GN 212.3-33-M12-32-*	33	M 12	32	23	12	32	55	51.5	6	100.5	60	5.5	131.5	140.5	124	431
GN 212.3-33-M12-40-*	33	M 12	40	23	12	32	55	51.5	6	100.5	60	5.5	131.5	140.5	124	431
GN 212.3-33-M12-50-*	33	M 12	50	23	12	32	55	51.5	6	100.5	60	5.5	131.5	140.5	124	438
GN 212.3-33-M12-63-*	33	M 12	63	23	12	32	55	51.5	6	100.5	60	5.5	131.5	140.5	124	446
GN 212.3-33-M16-32-*	33	M 16	32	23	12	32	55	51.5	6	100.5	60	5.5	131.5	140.5	124	440
GN 212.3-33-M16-40-*	33	M 16	40	23	12	32	55	51.5	6	100.5	60	5.5	131.5	140.5	124	451
GN 212.3-33-M16-50-*	33	M 16	50	23	12	32	55	51.5	6	100.5	60	5.5	131.5	140.5	124	463
GN 212.3-33-M16-63-*	33	M 16	63	23	12	32	55	51.5	6	100.5	60	5.5	131.5	140.5	124	482
GN 212.3-33-M16-80-*	33	M 16	80	23	12	32	55	51.5	6	100.5	60	5.5	131.5	140.5	124	504
GN 212.3-40-M16-40-*	40	M 16	40	28	14	35	68	64	6	118	71.5	5.5	148	158	138	743
GN 212.3-40-M16-50-*	40	M 16	50	28	14	35	68	64	6	118	71.5	5.5	148	158	138	757
GN 212.3-40-M16-63-*	40	M 16	63	28	14	35	68	64	6	118	71.5	5.5	148	158	138	772
GN 212.3-40-M16-80-*	40	M 16	80	28	14	35	68	64	6	118	71.5	5.5	148	158	138	797
GN 212.3-40-M20-40-*	40	M 20	40	28	14	35	68	64	6	118	71.5	5.5	148	158	138	777
GN 212.3-40-M20-50-*	40	M 20	50	28	14	35	68	64	6	118	71.5	5.5	148	158	138	780
GN 212.3-40-M20-63-*	40	M 20	63	28	14	35	68	64	6	118	71.5	5.5	148	158	138	824
GN 212.3-40-M20-80-*	40	M 20	80	28	14	35	68	64	6	118	71.5	5.5	148	158	138	856

Weight type E

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Adjustable Stainless Steel-Tension levers

SPECIFICATION

Type
- Type **E**: angled lever

Stainless Steel AISI 303
Hub and shaft matt shot-blasted

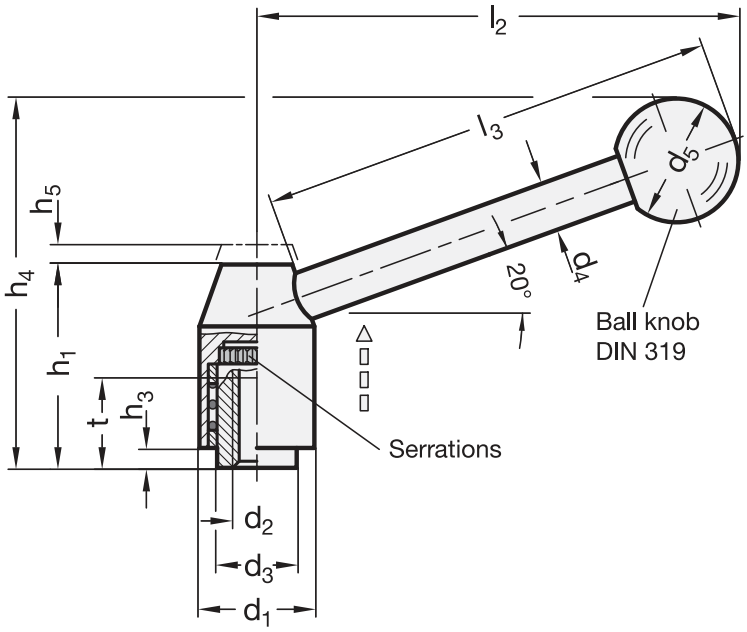
Ball knobs DIN 319 (see page 538)
Plastic, Duroplast
black, shiny finish

INFORMATION

Adjustable tension levers GN 212.5 have proved to be ideal whenever parts have to be clamped in a confined space or a particular lever position is required. The threaded insert is connected with the hub via serrations which can be disengaged.
Pulling the lever, disengages the serrations and allowing it to be swivelled to the ideal clamping position. On releasing the lever it will automatically re-engage.

ON REQUEST
- straight lever (90°)

TECHNICAL INFORMATION
- Stainless Steel characteristics (see page A26)



GN 212.5-with threaded insert — **STAINLESS STEEL**

Description	d1	d2	d3	d4	d5	h1	h3	h4	h5	l2	l3 ≈	t min.	⚖
GN 212.5-21-M6-E	21	M 6	13.5	8	20	33.5	1	59	4	75	70	11	97
GN 212.5-21-M8-E	21	M 8	13.5	8	20	33.5	1	59	4	75	70	11	93
GN 212.5-24-M8-E	24	M 8	16	10	25	40	2.5	75	4.5	101	96	14	170
GN 212.5-24-M10-E	24	M 10	16	10	25	40	2.5	75	4.5	101	96	14	161
GN 212.5-28-M10-E	28	M 10	19	12	30	48.5	4.5	89	4.5	116	110	17	261
GN 212.5-28-M12-E	28	M 12	19	12	30	48.5	4.5	89	4.5	116	110	17	258

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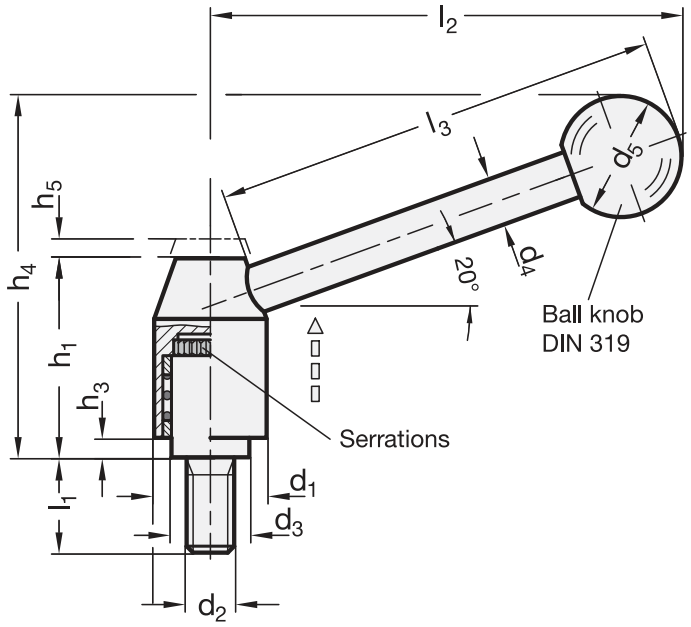
GN 212.5 | Adjustable Stainless Steel-Tension levers



GN 212.5-with threaded stud — **STAINLESS STEEL**

Description	d1	d2	l1	d3	d4	d5	h1	h3	h4	h5	l2	l3 ≈	⚖
GN 212.5-21-M8-16-E	21	M 8	16	13.5	8	20	33.5	1	59	4	75	70	104
GN 212.5-21-M8-20-E	21	M 8	20	13.5	8	20	33.5	1	59	4	75	70	105
GN 212.5-21-M8-25-E	21	M 8	25	13.5	8	20	33.5	1	59	4	75	70	107
GN 212.5-21-M8-32-E	21	M 8	32	13.5	8	20	33.5	1	59	4	75	70	107
GN 212.5-21-M8-40-E	21	M 8	40	13.5	8	20	33.5	1	59	4	75	70	112
GN 212.5-21-M8-50-E	21	M 8	50	13.5	8	20	33.5	1	59	4	75	70	114
GN 212.5-21-M8-63-E	21	M 8	63	13.5	8	20	33.5	1	59	4	75	70	119
GN 212.5-24-M10-20-E	24	M 10	20	16	10	25	40	2.5	75	4.5	101	96	173
GN 212.5-24-M10-25-E	24	M 10	25	16	10	25	40	2.5	75	4.5	101	96	175
GN 212.5-24-M10-32-E	24	M 10	32	16	10	25	40	2.5	75	4.5	101	96	178
GN 212.5-24-M10-40-E	24	M 10	40	16	10	25	40	2.5	75	4.5	101	96	182
GN 212.5-24-M10-50-E	24	M 10	50	16	10	25	40	2.5	75	4.5	101	96	188
GN 212.5-24-M10-63-E	24	M 10	63	16	10	25	40	2.5	75	4.5	101	96	195
GN 212.5-24-M10-80-E	24	M 10	80	16	10	25	40	2.5	75	4.5	101	96	202
GN 212.5-28-M12-25-E	28	M 12	25	19	12	30	48.5	4.5	89	4.5	116	110	295
GN 212.5-28-M12-32-E	28	M 12	32	19	12	30	48.5	4.5	89	4.5	116	110	300
GN 212.5-28-M12-40-E	28	M 12	40	19	12	30	48.5	4.5	89	4.5	116	110	305
GN 212.5-28-M12-50-E	28	M 12	50	19	12	30	48.5	4.5	89	4.5	116	110	310
GN 212.5-28-M12-63-E	28	M 12	63	19	12	30	48.5	4.5	89	4.5	116	110	322
GN 212.5-28-M12-80-E	28	M 12	80	19	12	30	48.5	4.5	89	4.5	116	110	333

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Adjustable clamping levers

PUSH to disengage

SPECIFICATION

Types

- Type **M**: Straigth lever
- Type **N**: Angled lever

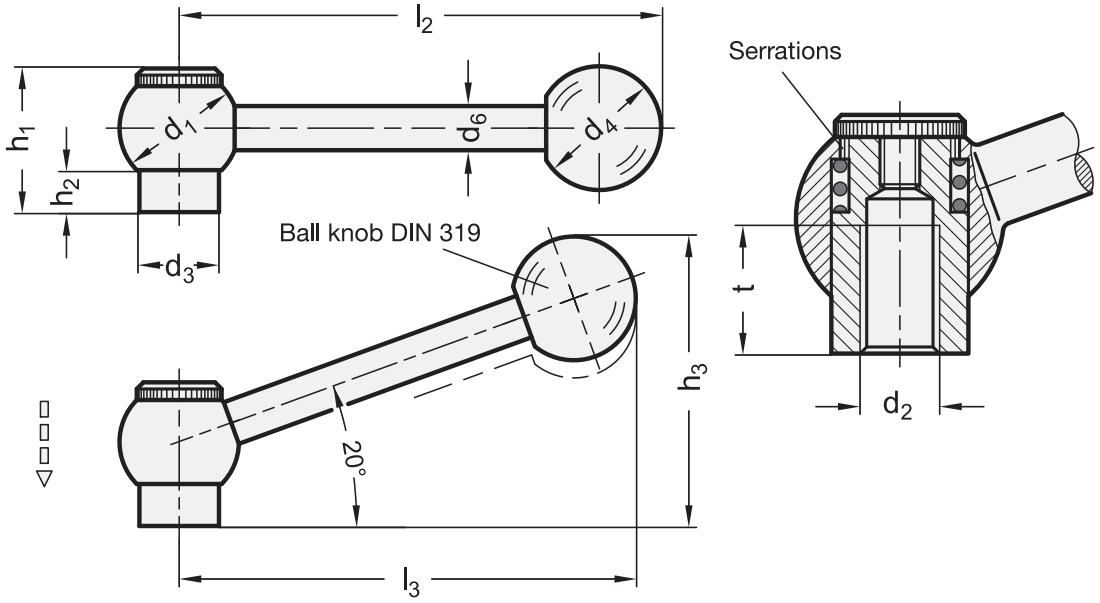
Steel
blackened

Tensile strength class 5.8

Ball knobs DIN 319 (see page 538)
Plastic, Duroplast
black, shiny finish

INFORMATION

Adjustable clamping levers GN 6337.3 have proved to be ideal whenever parts have to be clamped in a confined space or a particular lever position is required. The insert is connected by the lever via serrations in the ball bore which can be disengaged.
Pushing the lever down, disengages the serrations and the lever can be swivelled to the ideal clamping position. Engagement is achieved by releasing the lever.
Should a rotation of 360° not be possible, the insert can be lightly screwed in (after the lever is disengaged) via a slot in the knurled screw.



GN 6337.3-with threaded insert

Description	d1	d2	d3	d4	d6	h1	h2	h3 ≈	l2	l3 ≈	t min.	⚖
GN 6337.3-20-M6-M	20	M 6	13.5	20	8.5	25	8	-	74	-	12	61
GN 6337.3-20-M8-M	20	M 8	13.5	20	8.5	25	8	-	74	-	12	58
GN 6337.3-25-M8-M	25	M 8	16	25	11	29	8	-	93	-	15	114
GN 6337.3-25-M10-M	25	M 10	16	25	11	29	8	-	93	-	15	111
GN 6337.3-28-M10-M	28	M 10	19	30	13	33.5	10.5	-	116	-	18	189
GN 6337.3-28-M12-M	28	M 12	19	30	13	33.5	10.5	-	116	-	18	183
GN 6337.3-20-M6-N	20	M 6	13.5	20	8.5	25	8	46	-	70	12	61
GN 6337.3-20-M8-N	20	M 8	13.5	20	8.5	25	8	46	-	70	12	58
GN 6337.3-25-M8-N	25	M 8	16	25	11	29	8	58	-	87	15	114
GN 6337.3-25-M10-N	25	M 10	16	25	11	29	8	58	-	87	15	111
GN 6337.3-28-M10-N	28	M 10	19	30	13	33.5	10.5	70.5	-	109	18	189
GN 6337.3-28-M12-N	28	M 12	19	30	13	33.5	10.5	70.5	-	109	18	170

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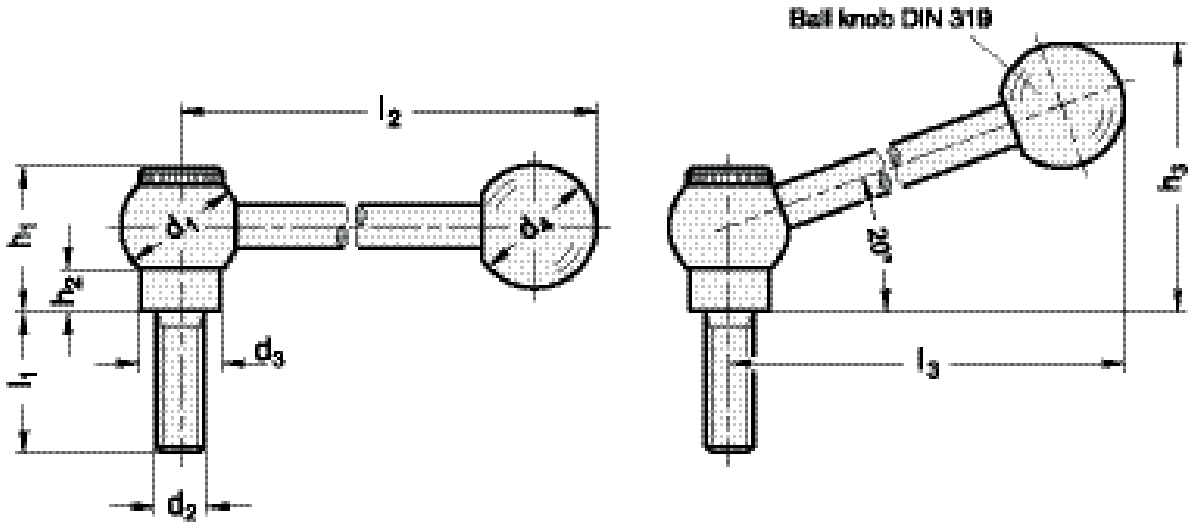
GN 6337.3 | Adjustable clamping levers



GN 6337.3-with threaded stud

Description	d1	d2	l1	d3	d4	h1	h2	h3 ≈	l2	l3 ≈	⚖
GN 6337.3-20-M8-20-M	20	M 8	20	13.5	20	25	8	-	74	-	69
GN 6337.3-20-M8-25-M	20	M 8	25	13.5	20	25	8	-	74	-	70
GN 6337.3-20-M8-32-M	20	M 8	32	13.5	20	25	8	-	74	-	73
GN 6337.3-20-M8-40-M	20	M 8	40	13.5	20	25	8	-	74	-	75
GN 6337.3-20-M8-50-M	20	M 8	50	13.5	20	25	8	-	74	-	78
GN 6337.3-20-M8-63-M	20	M 8	63	13.5	20	25	8	-	74	-	82
GN 6337.3-25-M10-20-M	25	M 10	20	16	25	29	8	-	93	-	129
GN 6337.3-25-M10-25-M	25	M 10	25	16	25	29	8	-	93	-	132
GN 6337.3-25-M10-32-M	25	M 10	32	16	25	29	8	-	93	-	136
GN 6337.3-25-M10-40-M	25	M 10	40	16	25	29	8	-	93	-	138
GN 6337.3-25-M10-50-M	25	M 10	50	16	25	29	8	-	93	-	144
GN 6337.3-25-M10-63-M	25	M 10	63	16	25	29	8	-	93	-	151
GN 6337.3-28-M12-25-M	28	M 12	25	19	30	33.5	10.5	-	116	-	217
GN 6337.3-28-M12-32-M	28	M 12	32	19	30	33.5	10.5	-	116	-	222
GN 6337.3-28-M12-40-M	28	M 12	40	19	30	33.5	10.5	-	116	-	228
GN 6337.3-28-M12-50-M	28	M 12	50	19	30	33.5	10.5	-	116	-	235
GN 6337.3-28-M12-63-M	28	M 12	63	19	30	33.5	10.5	-	116	-	243
GN 6337.3-28-M12-80-M	28	M 12	80	19	30	33.5	10.5	-	116	-	255
GN 6337.3-20-M8-20-N	20	M 8	20	13.5	20	25	8	46	-	70	69
GN 6337.3-20-M8-25-N	20	M 8	25	13.5	20	25	8	46	-	70	70
GN 6337.3-20-M8-32-N	20	M 8	32	13.5	20	25	8	46	-	70	73
GN 6337.3-20-M8-40-N	20	M 8	40	13.5	20	25	8	46	-	70	75
GN 6337.3-20-M8-50-N	20	M 8	50	13.5	20	25	8	46	-	70	78
GN 6337.3-20-M8-63-N	20	M 8	63	13.5	20	25	8	46	-	70	82
GN 6337.3-25-M10-20-N	25	M 10	20	16	25	29	8	58	-	87	129
GN 6337.3-25-M10-25-N	25	M 10	25	16	25	29	8	58	-	87	132
GN 6337.3-25-M10-32-N	25	M 10	32	16	25	29	8	58	-	87	136
GN 6337.3-25-M10-40-N	25	M 10	40	16	25	29	8	58	-	87	138
GN 6337.3-25-M10-50-N	25	M 10	50	16	25	29	8	58	-	87	144
GN 6337.3-25-M10-63-N	25	M 10	63	16	25	29	8	58	-	87	151
GN 6337.3-28-M12-25-N	28	M 12	25	19	30	33.5	10.5	70.5	-	109	217
GN 6337.3-28-M12-32-N	28	M 12	32	19	30	33.5	10.5	70.5	-	109	222
GN 6337.3-28-M12-40-N	28	M 12	40	19	30	33.5	10.5	70.5	-	109	228
GN 6337.3-28-M12-50-N	28	M 12	50	19	30	33.5	10.5	70.5	-	109	235
GN 6337.3-28-M12-63-N	28	M 12	63	19	30	33.5	10.5	70.5	-	109	243
GN 6337.3-28-M12-80-N	28	M 12	80	19	30	33.5	10.5	70.5	-	109	255

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Adjustable Flat tension levers

Steel, blackened

SPECIFICATION

Types

- Type **D**: straight lever
- Type **E**: angled lever

Steel
blackened

Tensile strength class 5.8

Plane surface with natural coloured, anodized Aluminium-disc

Ball knobs DIN 319 (see page 538)
Plastic, Duroplast
black, shiny finish

INFORMATION

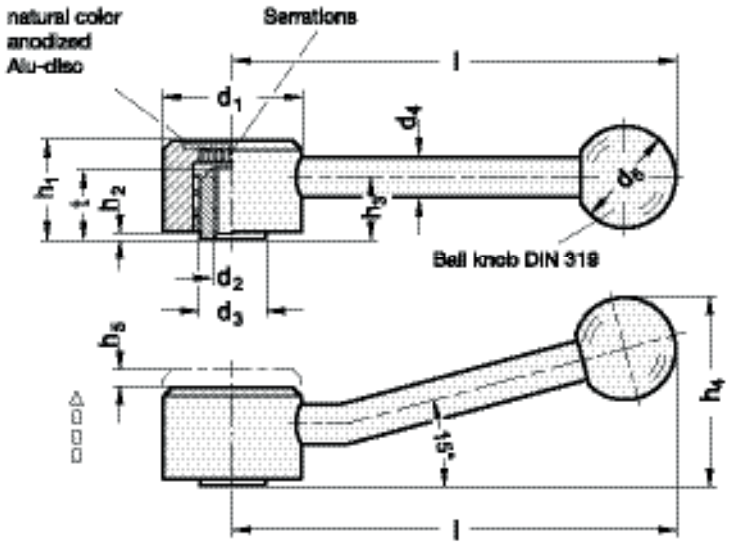
The overall height of tension levers GN 125 is reduced to a minimum. As all other adjustable levers, they are ideal whenever parts have to be clamped in a confined space, or a particular lever position is required. The threaded insert is connected with the hub via serrations which can be disengaged.
Pulling the lever, disengages the serrations and the lever can be swivelled to the ideal clamping position. On releasing the lever it will automatically re-engage.

ON REQUEST

- with threaded through hole

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)



*Complete with type of the Adjustable Flat tension levers (E or D)

D Straight lever
E Angled lever

GN 125-with threaded insert

Description	d1	d2	d3	d4	d5	h1	h2	h3	h4 ≈	h5	l	t min.	⚖
GN 125-32-M6-*	32	M 6	13.5	8	20	20.5	1.5	12.5	36	4	100	11	141
GN 125-32-M8-*	32	M 8	13.5	8	20	20.5	1.5	12.5	36	4	100	11	139
GN 125-36-M8-*	36	M 8	16	10	25	24.5	2	15	45	4.5	120	14	223
GN 125-36-M10-*	36	M 10	16	10	25	24.5	2	15	45	4.5	120	14	222
GN 125-36-M12-*	36	M 12	16	10	25	24.5	2	15	45	4.5	120	14	220
GN 125-40-M10-*	40	M 10	19	12	30	26.5	2	16	50	4.5	130	17	307
GN 125-40-M12-*	40	M 12	19	12	30	26.5	2	16	50	4.5	130	17	301
GN 125-45-M12-*	45	M 12	23	12	32	31.5	2	20	60	5	145	23	425
GN 125-45-M14-*	45	M 14	23	12	32	31.5	2	20	60	5	145	23	415
GN 125-45-M16-*	45	M 16	23	12	32	31.5	2	20	60	5	145	23	406

Weight type E

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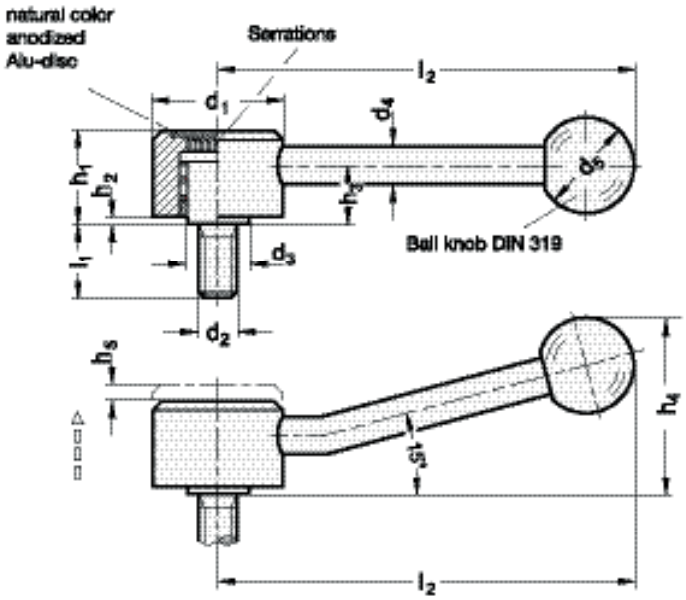
GN 125

Adjustable Flat tension levers



*Complete with type of the Adjustable Flat tension levers (E or D)

D	E
Straight lever	Angled lever

GN 125-with threaded stud

Description	d1	d2	l1	d3	d4	d5	h1	h2	h3	h4 ≈	h5	l2	⚖
GN 125-32-M8-12-*	32	M 8	12	13.5	8	20	20.5	1.5	12.5	36	4	100	147
GN 125-32-M8-16-*	32	M 8	16	13.5	8	20	20.5	1.5	12.5	36	4	100	148
GN 125-32-M8-20-*	32	M 8	20	13.5	8	20	20.5	1.5	12.5	36	4	100	149
GN 125-32-M8-25-*	32	M 8	25	13.5	8	20	20.5	1.5	12.5	36	4	100	151
GN 125-32-M8-32-*	32	M 8	32	13.5	8	20	20.5	1.5	12.5	36	4	100	153
GN 125-32-M8-40-*	32	M 8	40	13.5	8	20	20.5	1.5	12.5	36	4	100	156
GN 125-32-M8-50-*	32	M 8	50	13.5	8	20	20.5	1.5	12.5	36	4	100	158
GN 125-32-M8-63-*	32	M 8	63	13.5	8	20	20.5	1.5	12.5	36	4	100	163
GN 125-32-M10-20-*	32	M 10	20	13.5	8	20	20.5	1.5	12.5	36	4	100	155
GN 125-32-M10-25-*	32	M 10	25	13.5	8	20	20.5	1.5	12.5	36	4	100	155
GN 125-32-M10-32-*	32	M 10	32	13.5	8	20	20.5	1.5	12.5	36	4	100	159
GN 125-32-M10-40-*	32	M 10	40	13.5	8	20	20.5	1.5	12.5	36	4	100	172
GN 125-32-M10-50-*	32	M 10	50	13.5	8	20	20.5	1.5	12.5	36	4	100	173
GN 125-32-M10-63-*	32	M 10	63	13.5	8	20	20.5	1.5	12.5	36	4	100	173
GN 125-32-M10-80-*	32	M 10	80	13.5	8	20	20.5	1.5	12.5	36	4	100	193
GN 125-36-M10-16-*	36	M 10	16	16	10	25	24.5	2	15	45	4.5	120	235
GN 125-36-M10-20-*	36	M 10	20	16	10	25	24.5	2	15	45	4.5	120	237
GN 125-36-M10-25-*	36	M 10	25	16	10	25	24.5	2	15	45	4.5	120	239
GN 125-36-M10-32-*	36	M 10	32	16	10	25	24.5	2	15	45	4.5	120	242
GN 125-36-M10-40-*	36	M 10	40	16	10	25	24.5	2	15	45	4.5	120	246
GN 125-36-M10-50-*	36	M 10	50	16	10	25	24.5	2	15	45	4.5	120	250
GN 125-36-M10-63-*	36	M 10	63	16	10	25	24.5	2	15	45	4.5	120	259
GN 125-36-M10-80-*	36	M 10	80	16	10	25	24.5	2	15	45	4.5	120	266
GN 125-36-M12-25-*	36	M 12	25	16	10	25	24.5	2	15	45	4.5	120	245
GN 125-36-M12-32-*	36	M 12	32	16	10	25	24.5	2	15	45	4.5	120	250
GN 125-36-M12-40-*	36	M 12	40	16	10	25	24.5	2	15	45	4.5	120	256
GN 125-36-M12-50-*	36	M 12	50	16	10	25	24.5	2	15	45	4.5	120	263
GN 125-36-M12-63-*	36	M 12	63	16	10	25	24.5	2	15	45	4.5	120	271
GN 125-36-M12-80-*	36	M 12	80	16	10	25	24.5	2	15	45	4.5	120	283
GN 125-40-M12-25-*	40	M 12	25	19	12	30	26.5	2	16	50	4.5	130	336
GN 125-40-M12-32-*	40	M 12	32	19	12	30	26.5	2	16	50	4.5	130	342
GN 125-40-M12-40-*	40	M 12	40	19	12	30	26.5	2	16	50	4.5	130	348
GN 125-40-M12-50-*	40	M 12	50	19	12	30	26.5	2	16	50	4.5	130	355
GN 125-40-M12-63-*	40	M 12	63	19	12	30	26.5	2	16	50	4.5	130	364
GN 125-40-M12-80-*	40	M 12	80	19	12	30	26.5	2	16	50	4.5	130	376
GN 125-45-M16-32-*	45	M 16	32	23	12	32	31.5	2	20	60	5	145	488
GN 125-45-M16-40-*	45	M 16	40	23	12	32	31.5	2	20	60	5	145	498
GN 125-45-M16-50-*	45	M 16	50	23	12	32	31.5	2	20	60	5	145	512
GN 125-45-M16-63-*	45	M 16	63	23	12	32	31.5	2	20	60	5	145	529
GN 125-45-M16-80-*	45	M 16	80	23	12	32	31.5	2	20	60	5	145	549

Weight type E

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Adjustable Stainless Steel-Flat tension levers

SPECIFICATION

Types

- Type **D**: straight lever
- Type **E**: angled lever

Stainless Steel AISI 303
matt shot-blasted

Plane surface with natural coloured, anodized Aluminium-disc

Ball knobs DIN 319 (see page 538)
Plastic, Duroplast
black, shiny finish

INFORMATION

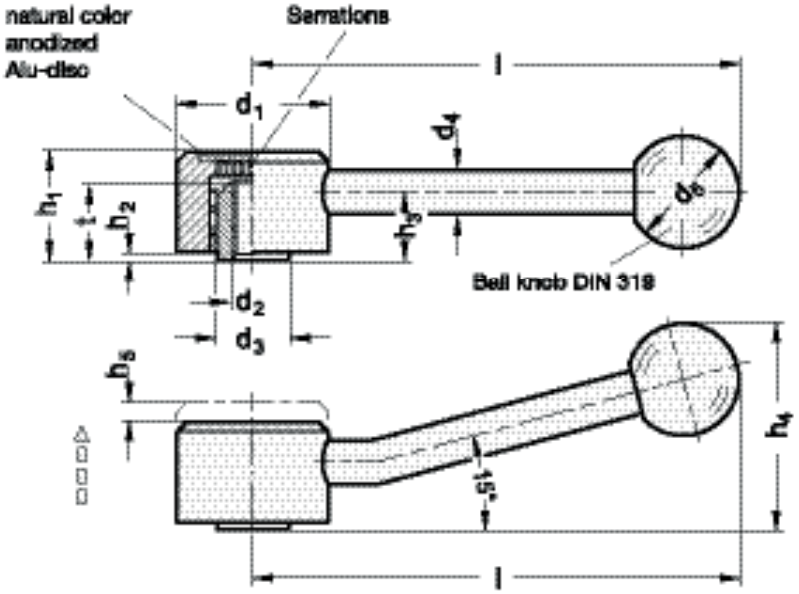
The overall height of Stainless Steel-tension levers GN 125.5 is reduced to a minimum.
As all other adjustable levers, they are ideal whenever parts have to be clamped in a confined space, or a particular lever position is required.
The threaded insert is connected with the hub via serrations which can be disengaged
Pulling the lever, disengages the serrations and the lever can be swivelled to the ideal clamping position. On releasing the lever it will automatically re-engage.

ON REQUEST

- with threaded through hole

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)



*Complete with type of the Adjustable Flat tension levers (E or D)

D	E
Straight lever	Angled lever

GN 125.5-with threaded insert — **STAINLESS STEEL**

Description	d1	d2	d3	d4	d5	h1	h2	h3	h4 ≈	h5	l	t min.	⚖
GN 125.5-32-M6-*	32	M 6	13.5	8	20	20.5	1.5	12.5	36	4	100	11	160
GN 125.5-32-M8-*	32	M 8	13.5	8	20	20.5	1.5	12.5	36	4	100	11	160
GN 125.5-36-M8-*	36	M 8	16	10	25	24.5	2	15	45	4.5	120	14	233
GN 125.5-36-M10-*	36	M 10	16	10	25	24.5	2	15	45	4.5	120	14	228
GN 125.5-40-M10-*	40	M 10	19	12	30	30	4	19	53	4.5	130	17	370
GN 125.5-40-M12-*	40	M 12	19	12	30	30	4	19	53	4.5	130	17	340
GN 125.5-45-M12-*	45	M 12	23	12	32	35.5	4	24	64	5	145	23	495
GN 125.5-45-M16-*	45	M 16	23	12	32	35.5	4	24	64	5	145	23	440

Weight type E

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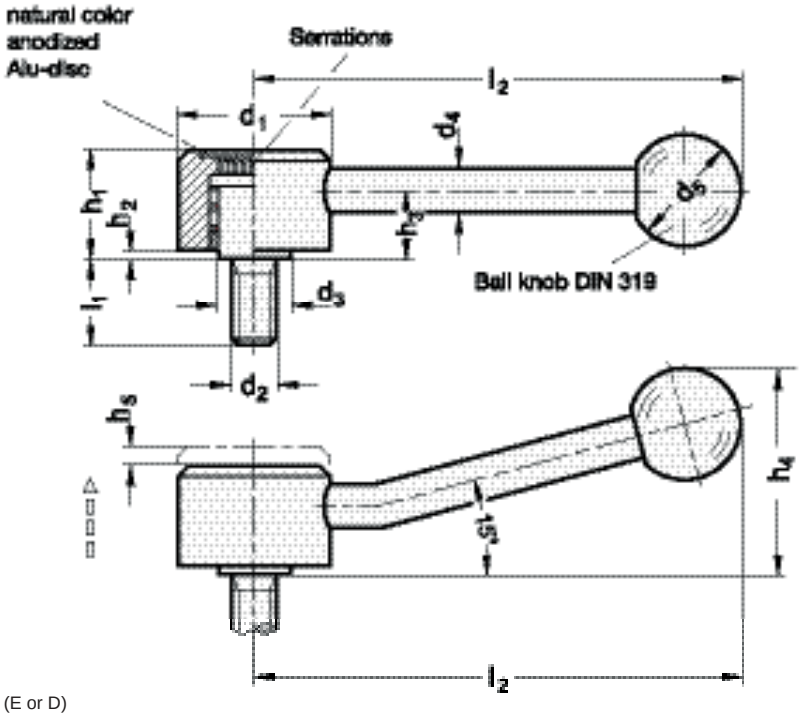
GN 125.5 | Adjustable Stainless Steel-Flat tension levers



*Complete with type of the Adjustable Flat tension levers (E or D)

D Straight lever **E** Angled lever

GN 125.5-with threaded stud **STAINLESS STEEL**

Description	d1	d2	l1	d3	d4	d5	h1	h2	h3	h4 ≈	h5	l2	⚖
GN 125.5-32-M8-12-*	32	M 8	12	13.5	8	20	20.5	1.5	12.5	36	4	100	155
GN 125.5-32-M8-16-*	32	M 8	16	13.5	8	20	20.5	1.5	12.5	36	4	100	160
GN 125.5-32-M8-20-*	32	M 8	20	13.5	8	20	20.5	1.5	12.5	36	4	100	160
GN 125.5-32-M8-25-*	32	M 8	25	13.5	8	20	20.5	1.5	12.5	36	4	100	159
GN 125.5-32-M8-32-*	32	M 8	32	13.5	8	20	20.5	1.5	12.5	36	4	100	160
GN 125.5-32-M8-40-*	32	M 8	40	13.5	8	20	20.5	1.5	12.5	36	4	100	160
GN 125.5-32-M8-50-*	32	M 8	50	13.5	8	20	20.5	1.5	12.5	36	4	100	180
GN 125.5-36-M10-16-*	36	M 10	16	16	10	25	24.5	2	15	45	4.5	120	240
GN 125.5-36-M10-20-*	36	M 10	20	16	10	25	24.5	2	15	45	4.5	120	250
GN 125.5-36-M10-25-*	36	M 10	25	16	10	25	24.5	2	15	45	4.5	120	253
GN 125.5-36-M10-32-*	36	M 10	32	16	10	25	24.5	2	15	45	4.5	120	250
GN 125.5-36-M10-40-*	36	M 10	40	16	10	25	24.5	2	15	45	4.5	120	260
GN 125.5-36-M10-50-*	36	M 10	50	16	10	25	24.5	2	15	45	4.5	120	260
GN 125.5-36-M10-63-*	36	M 10	63	16	10	25	24.5	2	15	45	4.5	120	282
GN 125.5-36-M10-80-*	36	M 10	80	16	10	25	24.5	2	15	45	4.5	120	260
GN 125.5-40-M12-25-*	40	M 12	25	19	12	30	30	4	19	53	4.5	130	280
GN 125.5-40-M12-32-*	40	M 12	32	19	12	30	30	4	19	53	4.5	130	380
GN 125.5-40-M12-40-*	40	M 12	40	19	12	30	30	4	19	53	4.5	130	380
GN 125.5-40-M12-50-*	40	M 12	50	19	12	30	30	4	19	53	4.5	130	380
GN 125.5-40-M12-63-*	40	M 12	63	19	12	30	30	4	19	53	4.5	130	400
GN 125.5-40-M12-80-*	40	M 12	80	19	12	30	30	4	19	53	4.5	130	407
GN 125.5-45-M16-32-*	45	M 16	32	23	12	32	35.5	4	24	64	5	145	540
GN 125.5-45-M16-40-*	45	M 16	40	23	12	32	35.5	4	24	64	5	145	540
GN 125.5-45-M16-50-*	45	M 16	50	23	12	32	35.5	4	24	64	5	145	683
GN 125.5-45-M16-63-*	45	M 16	63	23	12	32	35.5	4	24	64	5	145	580
GN 125.5-45-M16-80-*	45	M 16	80	23	12	32	35.5	4	24	64	5	145	724

Weight type E

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Safety tension levers

PUSH to engange

SPECIFICATION

Types

- Type **E**: angled lever
- Type **D**: straight lever

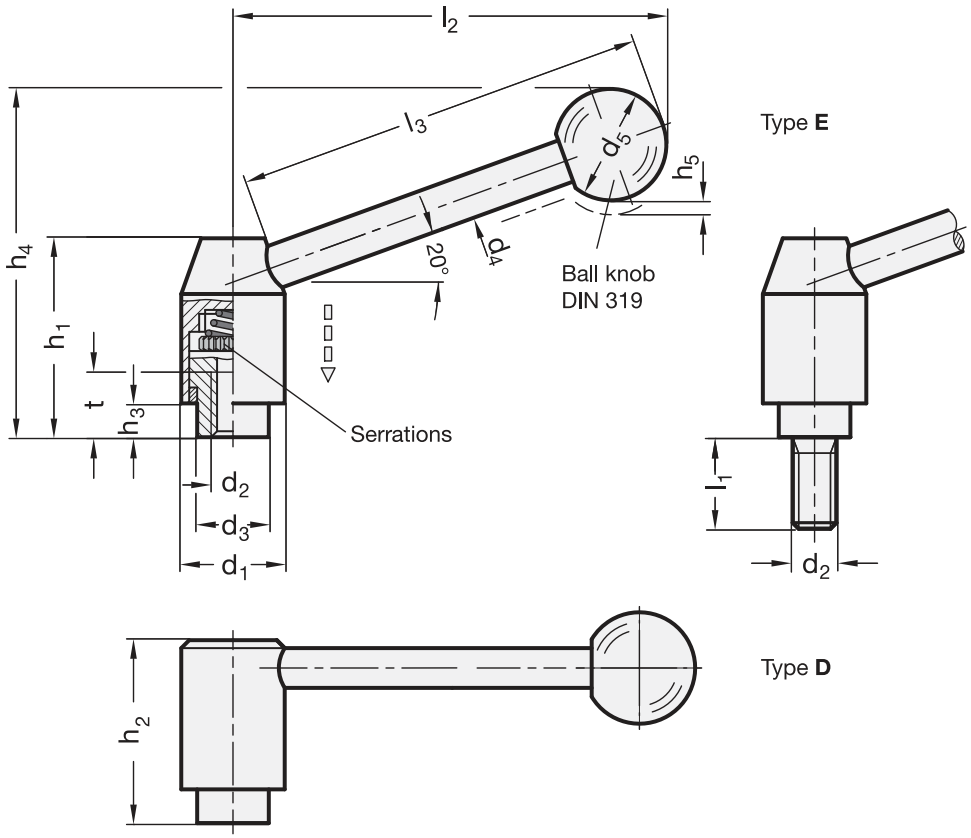
Steel
blackened

Tensile strength class 5.8

Ball knobs DIN 319 (see page 538)
Plastic, Duroplast
black, shiny finish

INFORMATION

Safety tension levers GN 312 are used on such applications where a thoughtless or mistaken releasing or re-positioning of the tension lever could lead to an accident.
The lever in its rest position is not connected with the internal spindle and can be rotated unhindered.
The tension lever engages in the serration only after pushing it down, thus allowing clamping or unclamping.
The "freewheel" position is re-established as soon as the handle is released.



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GN 312 | Safety tension levers

*Complete with type of the Safety tension levers (E or D)

E Angled lever **D** Straight lever

GN 312-with threaded insert

Description	d1	d2	d3	d4	d5	h1	h2	h3	h4 Type E	h4 Type D	h5	l2 Type E	l2 Type D	l3	t min.	⚖
GN 312-21-M6-*	21	M 6	13.5	8	20	37	34.5	4.5	62	39	3	75	39	70	11	101
GN 312-21-M8-*	21	M 8	13.5	8	20	37	34.5	4.5	62	39	3	75	39	70	11	99
GN 312-24-M8-*	24	M 8	16	10	25	44	41	6.5	78	47	3.5	101	47	96	14	165
GN 312-24-M10-*	24	M 10	16	10	25	44	41	6.5	78	47	3.5	101	47	96	14	161
GN 312-28-M10-*	28	M 10	19	12	30	53	49	8.5	93	56	4	116	56	110	17	286
GN 312-28-M12-*	28	M 12	19	12	30	53	49	8.5	93	56	4	116	56	110	17	270
GN 312-33-M12-*	33	M 12	23	12	32	60	56	10.5	105	65	4.5	131	65	124	22	407
GN 312-33-M16-*	33	M 16	23	12	32	60	56	10.5	105	65	4.5	131	65	124	22	390

GN 312-with threaded stud

Description	d1	d2	l1	d3	d4	d5	h1	h2	h3	h4 Type E	h4 Type D	h5	l2 Type E	l2 Type D	l3	⚖
GN 312-21-M8-16-*	21	M 8	16	13.5	8	20	37	34.5	4.5	62	39	3	75	81	70	108
GN 312-21-M8-20-*	21	M 8	20	13.5	8	20	37	34.5	4.5	62	39	3	75	81	70	109
GN 312-21-M8-25-*	21	M 8	25	13.5	8	20	37	34.5	4.5	62	39	3	75	81	70	111
GN 312-21-M8-32-*	21	M 8	32	13.5	8	20	37	34.5	4.5	62	39	3	75	81	70	113
GN 312-21-M8-40-*	21	M 8	40	13.5	8	20	37	34.5	4.5	62	39	3	75	81	70	116
GN 312-21-M8-50-*	21	M 8	50	13.5	8	20	37	34.5	4.5	62	39	3	75	81	70	118
GN 312-21-M8-63-*	21	M 8	63	13.5	8	20	37	34.5	4.5	62	39	3	75	81	70	123
GN 312-24-M10-20-*	24	M 10	20	16	10	25	44	41	6.5	78	47	3.5	101	108	96	179
GN 312-24-M10-25-*	24	M 10	25	16	10	25	44	41	6.5	78	47	3.5	101	108	96	181
GN 312-24-M10-32-*	24	M 10	32	16	10	25	44	41	6.5	78	47	3.5	101	108	96	184
GN 312-24-M10-40-*	24	M 10	40	16	10	25	44	41	6.5	78	47	3.5	101	108	96	188
GN 312-24-M10-50-*	24	M 10	50	16	10	25	44	41	6.5	78	47	3.5	101	108	96	194
GN 312-24-M10-63-*	24	M 10	63	16	10	25	44	41	6.5	78	47	3.5	101	108	96	201
GN 312-24-M10-80-*	24	M 10	80	16	10	25	44	41	6.5	78	47	3.5	101	108	96	210
GN 312-28-M12-20-*	28	M 12	20	19	12	30	53	49	8.5	93	56	4	116	124	110	299
GN 312-28-M12-25-*	28	M 12	25	19	12	30	53	49	8.5	93	56	4	116	124	110	304
GN 312-28-M12-32-*	28	M 12	32	19	12	30	53	49	8.5	93	56	4	116	124	110	309
GN 312-28-M12-40-*	28	M 12	40	19	12	30	53	49	8.5	93	56	4	116	124	110	314
GN 312-28-M12-50-*	28	M 12	50	19	12	30	53	49	8.5	93	56	4	116	124	110	321
GN 312-28-M12-63-*	28	M 12	63	19	12	30	53	49	8.5	93	56	4	116	124	110	331
GN 312-28-M12-80-*	28	M 12	80	19	12	30	53	49	8.5	93	56	4	116	124	110	342
GN 312-33-M16-32-*	33	M 16	32	23	12	32	60	56	10.5	105	65	4.5	131	140.5	124	455
GN 312-33-M16-40-*	33	M 16	40	23	12	32	60	56	10.5	105	65	4.5	131	140.5	124	477
GN 312-33-M16-50-*	33	M 16	50	23	12	32	60	56	10.5	105	65	4.5	131	140.5	124	492
GN 312-33-M16-63-*	33	M 16	63	23	12	32	60	56	10.5	105	65	4.5	131	140.5	124	508
GN 312-33-M16-80-*	33	M 16	80	23	12	32	60	56	10.5	105	65	4.5	131	140.5	124	530

Weight type D

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Clamping levers with eccentrical cam

Contact plate Plastic / Lever Zinc die casting

reddot design award

SPECIFICATION

Types

- Type **A**: Plastic contact plate with setting nut
- Type **B**: Plastic contact plate without setting nut

Lever
Zinc die casting

plastic coated (abrasion proof epoxy resin)
black, RAL 9005 **B**
orange, RAL 2004 **O**
red, RAL 3000 **R**
silver, RAL 9006 **S**

Contact plates
Plastic, glass fibre reinforced

- Type **A**: Polyacetal (POM)
- Type **B**: Polyamide (PA)

Version with threaded insert

Axis, lag nut, setting nut
Steel zinc plated, blue passivated

Version with threaded stud

Axis, lag screw, setting screw
Steel zinc plated, blue passivated

INFORMATION

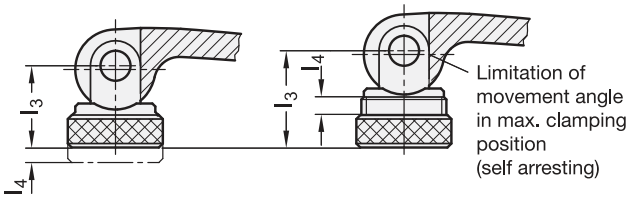
Clamping levers with eccentrical cam GN 927 are used for rapid clamping and releasing. Hereby, contrary to a clamping operation via a thread, these levers permit a **torque-free** clamping.
The lever has been designed to ensure that its movement cannot exceed the max. clamping force.
There are no loose components since they are all assembled and mounted in their correct order.
Type A has the following benefits:
The distance between the lever cam and the clamping surface is adjustable via a fine pitch thread, allowing the clamping position to be set easily with maximum clamping force. Also, the position of the lever relative to the clamping axis can be determined.
With these clamping levers with eccentrical cam, clamping forces of up to 8 kN can be reached.

TECHNICAL INFORMATION

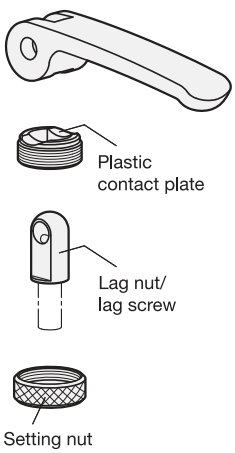
- Plastic characteristics (see page A2)

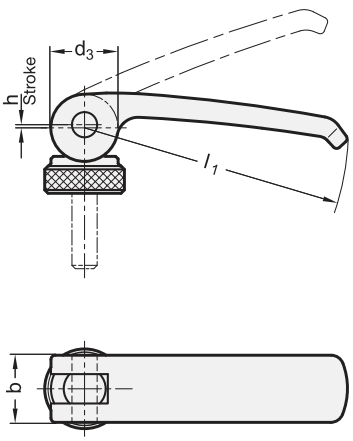
CONSCTRUCTIONAL FEATURES (TYPE A) / APPLICATION EXAMPLE

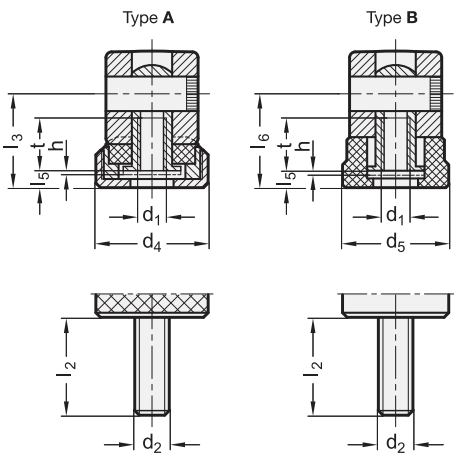
l_3 adjustable by the setting screw for optimum clamping force at the preferred lever position.



l_3 max. must not be exeeded. Otherwise there is the risk that the positioning thread can no longer absorb the clamping force or may be damaged.







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GN 927 | Clamping levers with eccentrical cam

* Complete with colour index of the Clamping lever (B, O, R or S)

B RAL9005 | O RAL2004 | R RAL3000 | S RAL9006

GN 927-with threaded insert

Description	l1	d1	b	d3	d4	d5	h	l3 min.	l3 max.	l4	l5	l6	t	⚖
GN 927-63-M5-A-*	63	M 5	16	16	19	-	0.75	16.3	18.8	2.5	3	-	10	56
GN 927-63-M6-A-*	63	M 6	16	16	19	-	0.75	16.3	18.8	2.5	3	-	10	56
GN 927-82-M6-A-*	82	M 6	20	20	25	-	1	19.5	22.5	3	3.7	-	12	110
GN 927-82-M8-A-*	82	M 8	20	20	25	-	1	19.5	22.5	3	3.7	-	12	110
GN 927-101-M8-A-*	101	M 8	25	26	30	-	1.5	25.3	29.3	4	4.8	-	15	218
GN 927-101-M10-A-*	101	M 10	25	26	30	-	1.5	25.3	29.3	4	4.8	-	15	210
GN 927-63-M5-B-*	63	M 5	16	16	-	18.5	0.75	-	-	-	3	16.3	10	52
GN 927-63-M6-B-*	63	M 6	16	16	-	18.5	0.75	-	-	-	3	16.3	10	51
GN 927-82-M6-B-*	82	M 6	20	20	-	22.5	1	-	-	-	3.7	19.5	12	110
GN 927-82-M8-B-*	82	M 8	20	20	-	22.5	1	-	-	-	3.7	19.5	12	96
GN 927-101-M8-B-*	101	M 8	25	26	-	27	1.5	-	-	-	4.8	25.3	15	175
GN 927-101-M10-B-*	101	M 10	25	26	-	27	1.5	-	-	-	4.8	25.3	15	156

GN 927-with threaded stud

Description	l1	d2	l2	b	d3	d4	d5	h	l3 min.	l3 max.	l4	l5	l6	⚖
GN 927-63-M5-16-A-*	63	M 5	16	16	16	19	-	0.75	16.3	18.8	2.5	3	-	60
GN 927-63-M5-20-A-*	63	M 5	20	16	16	19	-	0.75	16.3	18.8	2.5	3	-	61
GN 927-63-M5-25-A-*	63	M 5	25	16	16	19	-	0.75	16.3	18.8	2.5	3	-	62
GN 927-63-M5-30-A-*	63	M 5	30	16	16	19	-	0.75	16.3	18.8	2.5	3	-	63
GN 927-63-M5-35-A-*	63	M 5	35	16	16	19	-	0.75	16.3	18.8	2.5	3	-	63
GN 927-63-M5-40-A-*	63	M 5	40	16	16	19	-	0.75	16.3	18.8	2.5	3	-	63
GN 927-63-M5-50-A-*	63	M 5	50	16	16	19	-	0.75	16.3	18.8	2.5	3	-	65
GN 927-63-M6-16-A-*	63	M 6	16	16	16	19	-	0.75	16.3	18.8	2.5	3	-	60
GN 927-63-M6-20-A-*	63	M 6	20	16	16	19	-	0.75	16.3	18.8	2.5	3	-	61
GN 927-63-M6-25-A-*	63	M 6	25	16	16	19	-	0.75	16.3	18.8	2.5	3	-	63
GN 927-63-M6-30-A-*	63	M 6	30	16	16	19	-	0.75	16.3	18.8	2.5	3	-	64
GN 927-63-M6-35-A-*	63	M 6	35	16	16	19	-	0.75	16.3	18.8	2.5	3	-	65
GN 927-63-M6-40-A-*	63	M 6	40	16	16	19	-	0.75	16.3	18.8	2.5	3	-	66
GN 927-63-M6-50-A-*	63	M 6	50	16	16	19	-	0.75	16.3	18.8	2.5	3	-	68
GN 927-82-M6-20-A-*	82	M 6	20	20	20	25	-	1	19.5	22.5	3	3.7	-	120
GN 927-82-M6-25-A-*	82	M 6	25	20	20	25	-	1	19.5	22.5	3	3.7	-	120
GN 927-82-M6-30-A-*	82	M 6	30	20	20	25	-	1	19.5	22.5	3	3.7	-	120
GN 927-82-M6-35-A-*	82	M 6	35	20	20	25	-	1	19.5	22.5	3	3.7	-	120
GN 927-82-M6-40-A-*	82	M 6	40	20	20	25	-	1	19.5	22.5	3	3.7	-	120
GN 927-82-M6-50-A-*	82	M 6	50	20	20	25	-	1	19.5	22.5	3	3.7	-	120
GN 927-82-M6-60-A-*	82	M 6	60	20	20	25	-	1	19.5	22.5	3	3.7	-	120
GN 927-82-M8-20-A-*	82	M 8	20	20	20	25	-	1	19.5	22.5	3	3.7	-	123
GN 927-82-M8-25-A-*	82	M 8	25	20	20	25	-	1	19.5	22.5	3	3.7	-	122
GN 927-82-M8-30-A-*	82	M 8	30	20	20	25	-	1	19.5	22.5	3	3.7	-	124
GN 927-82-M8-35-A-*	82	M 8	35	20	20	25	-	1	19.5	22.5	3	3.7	-	125
GN 927-82-M8-40-A-*	82	M 8	40	20	20	25	-	1	19.5	22.5	3	3.7	-	125
GN 927-82-M8-50-A-*	82	M 8	50	20	20	25	-	1	19.5	22.5	3	3.7	-	129
GN 927-82-M8-60-A-*	82	M 8	60	20	20	25	-	1	19.5	22.5	3	3.7	-	134
GN 927-101-M8-25-A-*	101	M 8	25	25	26	30	-	1.5	25.3	29.3	4	4.8	-	227
GN 927-101-M8-30-A-*	101	M 8	30	25	26	30	-	1.5	25.3	29.3	4	4.8	-	227
GN 927-101-M8-35-A-*	101	M 8	35	25	26	30	-	1.5	25.3	29.3	4	4.8	-	228
GN 927-101-M8-40-A-*	101	M 8	40	25	26	30	-	1.5	25.3	29.3	4	4.8	-	232
GN 927-101-M8-50-A-*	101	M 8	50	25	26	30	-	1.5	25.3	29.3	4	4.8	-	233
GN 927-101-M8-60-A-*	101	M 8	60	25	26	30	-	1.5	25.3	29.3	4	4.8	-	237

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GN 927 | Clamping levers with eccentrical cam

* Complete with colour index of the Clamping lever (B, O, R or S)

B RAL9005 | O RAL2004 | R RAL3000 | S RAL9006

GN 927-with threaded stud

Description	l1	d2	l2	b	d3	d4	d5	h	l3 min.	l3 max.	l4	l5	l6	⚖
GN 927-101-M10-20-A-*	101	M 10	20	25	26	30	-	1.5	25.3	29.3	4	4.8	-	230
GN 927-101-M10-25-A-*	101	M 10	25	25	26	30	-	1.5	25.3	29.3	4	4.8	-	231
GN 927-101-M10-30-A-*	101	M 10	30	25	26	30	-	1.5	25.3	29.3	4	4.8	-	233
GN 927-101-M10-35-A-*	101	M 10	35	25	26	30	-	1.5	25.3	29.3	4	4.8	-	237
GN 927-101-M10-40-A-*	101	M 10	40	25	26	30	-	1.5	25.3	29.3	4	4.8	-	238
GN 927-101-M10-50-A-*	101	M 10	50	25	26	30	-	1.5	25.3	29.3	4	4.8	-	245
GN 927-101-M10-60-A-*	101	M 10	60	25	26	30	-	1.5	25.3	29.3	4	4.8	-	250
GN 927-63-M5-16-B-*	63	M 5	16	16	16	-	18.5	0.75	-	-	-	3	16.3	56
GN 927-63-M5-20-B-*	63	M 5	20	16	16	-	18.5	0.75	-	-	-	3	16.3	55
GN 927-63-M5-25-B-*	63	M 5	25	16	16	-	18.5	0.75	-	-	-	3	16.3	56
GN 927-63-M5-30-B-*	63	M 5	30	16	16	-	18.5	0.75	-	-	-	3	16.3	56
GN 927-63-M5-35-B-*	63	M 5	35	16	16	-	18.5	0.75	-	-	-	3	16.3	56
GN 927-63-M5-40-B-*	63	M 5	40	16	16	-	18.5	0.75	-	-	-	3	16.3	56
GN 927-63-M5-50-B-*	63	M 5	50	16	16	-	18.5	0.75	-	-	-	3	16.3	56
GN 927-63-M6-16-B-*	63	M 6	16	16	16	-	18.5	0.75	-	-	-	3	16.3	56
GN 927-63-M6-20-B-*	63	M 6	20	16	16	-	18.5	0.75	-	-	-	3	16.3	56
GN 927-63-M6-25-B-*	63	M 6	25	16	16	-	18.5	0.75	-	-	-	3	16.3	56
GN 927-63-M6-30-B-*	63	M 6	30	16	16	-	18.5	0.75	-	-	-	3	16.3	60
GN 927-63-M6-35-B-*	63	M 6	35	16	16	-	18.5	0.75	-	-	-	3	16.3	60
GN 927-63-M6-40-B-*	63	M 6	40	16	16	-	18.5	0.75	-	-	-	3	16.3	60
GN 927-63-M6-50-B-*	63	M 6	50	16	16	-	18.5	0.75	-	-	-	3	16.3	60
GN 927-82-M6-20-B-*	82	M 6	20	20	20	-	22.5	1	-	-	-	3.7	19.5	122
GN 927-82-M6-25-B-*	82	M 6	25	20	20	-	22.5	1	-	-	-	3.7	19.5	122
GN 927-82-M6-30-B-*	82	M 6	30	20	20	-	22.5	1	-	-	-	3.7	19.5	122
GN 927-82-M6-35-B-*	82	M 6	35	20	20	-	22.5	1	-	-	-	3.7	19.5	122
GN 927-82-M6-40-B-*	82	M 6	40	20	20	-	22.5	1	-	-	-	3.7	19.5	122
GN 927-82-M6-50-B-*	82	M 6	50	20	20	-	22.5	1	-	-	-	3.7	19.5	122
GN 927-82-M6-60-B-*	82	M 6	60	20	20	-	22.5	1	-	-	-	3.7	19.5	122
GN 927-82-M8-20-B-*	82	M 8	20	20	20	-	22.5	1	-	-	-	3.7	19.5	122
GN 927-82-M8-25-B-*	82	M 8	25	20	20	-	22.5	1	-	-	-	3.7	19.5	100
GN 927-82-M8-30-B-*	82	M 8	30	20	20	-	22.5	1	-	-	-	3.7	19.5	107
GN 927-82-M8-35-B-*	82	M 8	35	20	20	-	22.5	1	-	-	-	3.7	19.5	108
GN 927-82-M8-40-B-*	82	M 8	40	20	20	-	22.5	1	-	-	-	3.7	19.5	110
GN 927-82-M8-50-B-*	82	M 8	50	20	20	-	22.5	1	-	-	-	3.7	19.5	120
GN 927-82-M8-60-B-*	82	M 8	60	20	20	-	22.5	1	-	-	-	3.7	19.5	120
GN 927-101-M8-20-B-*	101	M 8	20	25	26	-	27	1.5	-	-	-	4.8	25.3	200
GN 927-101-M8-25-B-*	101	M 8	25	25	26	-	27	1.5	-	-	-	4.8	25.3	202
GN 927-101-M8-30-B-*	101	M 8	30	25	26	-	27	1.5	-	-	-	4.8	25.3	204
GN 927-101-M8-35-B-*	101	M 8	35	25	26	-	27	1.5	-	-	-	4.8	25.3	204
GN 927-101-M8-40-B-*	101	M 8	40	25	26	-	27	1.5	-	-	-	4.8	25.3	208
GN 927-101-M8-50-B-*	101	M 8	50	25	26	-	27	1.5	-	-	-	4.8	25.3	210
GN 927-101-M8-60-B-*	101	M 8	60	25	26	-	27	1.5	-	-	-	4.8	25.3	213
GN 927-101-M10-20-B-*	101	M 10	20	25	26	-	27	1.5	-	-	-	4.8	25.3	205
GN 927-101-M10-25-B-*	101	M 10	25	25	26	-	27	1.5	-	-	-	4.8	25.3	207
GN 927-101-M10-30-B-*	101	M 10	30	25	26	-	27	1.5	-	-	-	4.8	25.3	209
GN 927-101-M10-35-B-*	101	M 10	35	25	26	-	27	1.5	-	-	-	4.8	25.3	212
GN 927-101-M10-40-B-*	101	M 10	40	25	26	-	27	1.5	-	-	-	4.8	25.3	215
GN 927-101-M10-50-B-*	101	M 10	50	25	26	-	27	1.5	-	-	-	4.8	25.3	219
GN 927-101-M10-60-B-*	101	M 10	60	25	26	-	27	1.5	-	-	-	4.8	25.3	224

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GN 927.4

Clamping levers with eccentrical cam

Single parts Stainless Steel / Contact plate Plastic / Lever Zinc die casting

SPECIFICATION

Types

- Type **A**: Plastic contact plate with setting nut
- Type **B**: Plastic contact plate without setting nut

Lever
Zinc die casting

plastic coated (abrasion proof epoxy resin)
black, RAL 9005 **B**
orange, RAL 2004 **O**
red, RAL 3000 **R**
silver, RAL 9006 **S**

Contact plates
Plastic, glass fibre reinforced

- Type A: Polyacetal (POM)
- Type B: Polyamide (PA)

Version with threaded insert

Axis, lag nut, setting nut
Stainless Steel AISI 303

Version with threaded stud

Axis, lag screw, setting screw
Stainless Steel AISI 303

INFORMATION

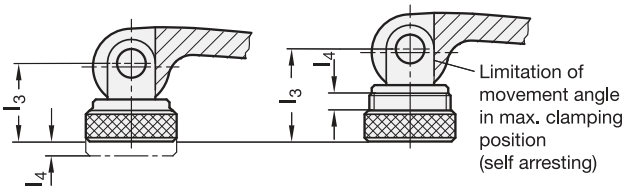
Clamping levers with eccentrical cam GN 927.4 with stainless steel internal thread are used for rapid clamping and releasing. Hereby, contrary to a clamping operation via a thread, these levers permit a **torque-free** clamping.
The lever has been designed to ensure that its movement cannot exceed the max. clamping force.
There are no loose components since they are all assembled and mounted in their correct order.
Type A has the following benefits:
The distance between the lever cam and the clamping surface is adjustable via a fine pitch thread, allowing the clamping position to be set easily with maximum clamping force. Also, the position of the lever relative to the clamping axis can be determined.
With these clamping levers with eccentrical cam, clamping forces of up to 8 kN can be reached.

TECHNICAL INFORMATION

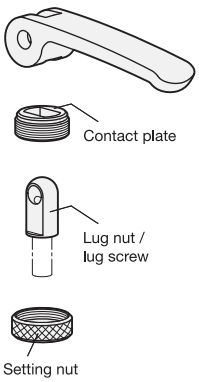
- Plastic characteristics (see page A2)
- Stainless Steel characteristics (see page A26)

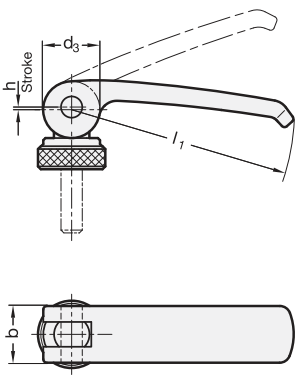
CONSTRUCTIONAL FEATURES (TYPE A) / APPLICATION EXAMPLE

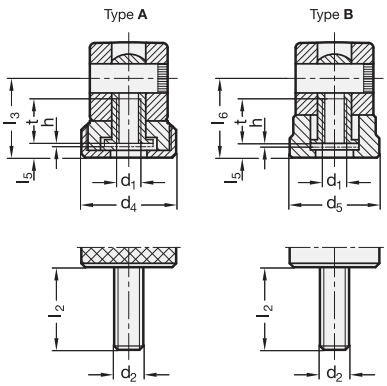
l_3 adjustable by the setting screw for optimum clamping force at the preferred lever position.



l_3 max. must not be exeeded. Otherwise there is the risk that the positioning thread can no longer absorb the clamping force or may be damaged.







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GN 927.4 | Clamping levers with eccentrical cam

* Complete with colour index of the Clamping lever (B, O, R or S)

B	O	R	S
RAL9005	RAL2004	RAL3000	RAL9006

GN 927.4-with threaded insert

Description	l1	d1	b	d3	d4	d5	h	l3 min.	l3 max.	l4	l5	l6	t	⚖
GN 927.4-63-M5-A-*	63	M 5	16	16	19	-	0.75	16.3	18.8	2.5	3	-	10	57
GN 927.4-63-M6-A-*	63	M 6	16	16	19	-	0.75	16.3	18.8	2.5	3	-	10	56
GN 927.4-82-M6-A-*	82	M 6	20	20	25	-	1	19.5	22.5	3	3.7	-	12	112
GN 927.4-82-M8-A-*	82	M 8	20	20	25	-	1	19.5	22.5	3	3.7	-	12	110
GN 927.4-101-M8-A-*	101	M 8	25	26	30	-	1.5	25.3	29.3	4	4.8	-	15	213
GN 927.4-101-M10-A-*	101	M 10	25	26	30	-	1.5	25.3	29.3	4	4.8	-	15	211
GN 927.4-63-M5-B-*	63	M 5	16	16	-	18.5	0.75	-	-	-	3	16.3	10	51
GN 927.4-63-M6-B-*	63	M 6	16	16	-	18.5	0.75	-	-	-	3	16.3	10	50
GN 927.4-82-M6-B-*	82	M 6	20	20	-	22.5	1	-	-	-	3.7	19.5	12	97
GN 927.4-82-M8-B-*	82	M 8	20	20	-	22.5	1	-	-	-	3.7	19.5	12	98
GN 927.4-101-M8-B-*	101	M 8	25	26	-	27	1.5	-	-	-	4.8	25.3	15	185
GN 927.4-101-M10-B-*	101	M 10	25	26	-	27	1.5	-	-	-	4.8	25.3	15	185

GN 927.4-with threaded stud

Description	l1	d2	l2	b	d3	d4	d5	h	l3 min.	l3 max.	l4	l5	l6	⚖
GN 927.4-63-M5-16-A-*	63	M 5	16	16	16	19	-	0.75	16.3	18.8	2.5	3	-	60
GN 927.4-63-M5-20-A-*	63	M 5	20	16	16	19	-	0.75	16.3	18.8	2.5	3	-	61
GN 927.4-63-M5-25-A-*	63	M 5	25	16	16	19	-	0.75	16.3	18.8	2.5	3	-	61
GN 927.4-63-M5-30-A-*	63	M 5	30	16	16	19	-	0.75	16.3	18.8	2.5	3	-	63
GN 927.4-63-M5-35-A-*	63	M 5	35	16	16	19	-	0.75	16.3	18.8	2.5	3	-	63
GN 927.4-63-M5-40-A-*	63	M 5	40	16	16	19	-	0.75	16.3	18.8	2.5	3	-	65
GN 927.4-63-M5-50-A-*	63	M 5	50	16	16	19	-	0.75	16.3	18.8	2.5	3	-	65
GN 927.4-63-M6-16-A-*	63	M 6	16	16	16	19	-	0.75	16.3	18.8	2.5	3	-	60
GN 927.4-63-M6-20-A-*	63	M 6	20	16	16	19	-	0.75	16.3	18.8	2.5	3	-	61
GN 927.4-63-M6-25-A-*	63	M 6	25	16	16	19	-	0.75	16.3	18.8	2.5	3	-	62
GN 927.4-63-M6-30-A-*	63	M 6	30	16	16	19	-	0.75	16.3	18.8	2.5	3	-	64
GN 927.4-63-M6-35-A-*	63	M 6	35	16	16	19	-	0.75	16.3	18.8	2.5	3	-	64
GN 927.4-63-M6-40-A-*	63	M 6	40	16	16	19	-	0.75	16.3	18.8	2.5	3	-	65
GN 927.4-63-M6-50-A-*	63	M 6	50	16	16	19	-	0.75	16.3	18.8	2.5	3	-	77
GN 927.4-82-M6-20-A-*	82	M 6	20	20	20	25	-	1	19.5	22.5	3	3.7	-	118
GN 927.4-82-M6-25-A-*	82	M 6	25	20	20	25	-	1	19.5	22.5	3	3.7	-	119
GN 927.4-82-M6-30-A-*	82	M 6	30	20	20	25	-	1	19.5	22.5	3	3.7	-	120
GN 927.4-82-M6-35-A-*	82	M 6	35	20	20	25	-	1	19.5	22.5	3	3.7	-	120
GN 927.4-82-M6-40-A-*	82	M 6	40	20	20	25	-	1	19.5	22.5	3	3.7	-	122
GN 927.4-82-M6-50-A-*	82	M 6	50	20	20	25	-	1	19.5	22.5	3	3.7	-	123
GN 927.4-82-M6-60-A-*	82	M 6	60	20	20	25	-	1	19.5	22.5	3	3.7	-	126
GN 927.4-82-M8-20-A-*	82	M 8	20	20	20	25	-	1	19.5	22.5	3	3.7	-	121
GN 927.4-82-M8-25-A-*	82	M 8	25	20	20	25	-	1	19.5	22.5	3	3.7	-	122
GN 927.4-82-M8-30-A-*	82	M 8	30	20	20	25	-	1	19.5	22.5	3	3.7	-	123
GN 927.4-82-M8-35-A-*	82	M 8	35	20	20	25	-	1	19.5	22.5	3	3.7	-	125
GN 927.4-82-M8-40-A-*	82	M 8	40	20	20	25	-	1	19.5	22.5	3	3.7	-	128
GN 927.4-82-M8-50-A-*	82	M 8	50	20	20	25	-	1	19.5	22.5	3	3.7	-	130
GN 927.4-82-M8-60-A-*	82	M 8	60	20	20	25	-	1	19.5	22.5	3	3.7	-	132
GN 927.4-101-M8-25-A-*	101	M 8	25	25	26	30	-	1.5	25.3	29.3	4	4.8	-	228
GN 927.4-101-M8-30-A-*	101	M 8	30	25	26	30	-	1.5	25.3	29.3	4	4.8	-	230
GN 927.4-101-M8-35-A-*	101	M 8	35	25	26	30	-	1.5	25.3	29.3	4	4.8	-	231
GN 927.4-101-M8-40-A-*	101	M 8	40	25	26	30	-	1.5	25.3	29.3	4	4.8	-	232
GN 927.4-101-M8-50-A-*	101	M 8	50	25	26	30	-	1.5	25.3	29.3	4	4.8	-	235

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GN 927.4 | Clamping levers with eccentrical cam

* Complete with colour index of the Clamping lever (B, O, R or S)

B RAL9005 O RAL2004 R RAL3000 S RAL9006

GN 927.4-with threaded stud

Description	l1	d2	l2	b	d3	d4	d5	h	l3 min.	l3 max.	l4	l5	l6	⚖
GN 927.4-101-M8-60-A-*	101	M 8	60	25	26	30	-	1.5	25.3	29.3	4	4.8	-	238
GN 927.4-101-M10-20-A-*	101	M 10	20	25	26	30	-	1.5	25.3	29.3	4	4.8	-	229
GN 927.4-101-M10-25-A-*	101	M 10	25	25	26	30	-	1.5	25.3	29.3	4	4.8	-	232
GN 927.4-101-M10-30-A-*	101	M 10	30	25	26	30	-	1.5	25.3	29.3	4	4.8	-	234
GN 927.4-101-M10-35-A-*	101	M 10	35	25	26	30	-	1.5	25.3	29.3	4	4.8	-	237
GN 927.4-101-M10-40-A-*	101	M 10	40	25	26	30	-	1.5	25.3	29.3	4	4.8	-	240
GN 927.4-101-M10-50-A-*	101	M 10	50	25	26	30	-	1.5	25.3	29.3	4	4.8	-	234
GN 927.4-101-M10-60-A-*	101	M 10	60	25	26	30	-	1.5	25.3	29.3	4	4.8	-	250
GN 927.4-63-M5-16-B-*	63	M 5	16	16	16	-	18.5	0.75	-	-	-	3	16.3	55
GN 927.4-63-M5-20-B-*	63	M 5	20	16	16	-	18.5	0.75	-	-	-	3	16.3	55
GN 927.4-63-M5-25-B-*	63	M 5	25	16	16	-	18.5	0.75	-	-	-	3	16.3	56
GN 927.4-63-M5-30-B-*	63	M 5	30	16	16	-	18.5	0.75	-	-	-	3	16.3	56
GN 927.4-63-M5-35-B-*	63	M 5	35	16	16	-	18.5	0.75	-	-	-	3	16.3	58
GN 927.4-63-M5-40-B-*	63	M 5	40	16	16	-	18.5	0.75	-	-	-	3	16.3	58
GN 927.4-63-M5-50-B-*	63	M 5	50	16	16	-	18.5	0.75	-	-	-	3	16.3	59
GN 927.4-63-M6-16-B-*	63	M 6	16	16	16	-	18.5	0.75	-	-	-	3	16.3	54
GN 927.4-63-M6-20-B-*	63	M 6	20	16	16	-	18.5	0.75	-	-	-	3	16.3	55
GN 927.4-63-M6-25-B-*	63	M 6	25	16	16	-	18.5	0.75	-	-	-	3	16.3	56
GN 927.4-63-M6-30-B-*	63	M 6	30	16	16	-	18.5	0.75	-	-	-	3	16.3	57
GN 927.4-63-M6-35-B-*	63	M 6	35	16	16	-	18.5	0.75	-	-	-	3	16.3	58
GN 927.4-63-M6-40-B-*	63	M 6	40	16	16	-	18.5	0.75	-	-	-	3	16.3	59
GN 927.4-63-M6-50-B-*	63	M 6	50	16	16	-	18.5	0.75	-	-	-	3	16.3	60
GN 927.4-82-M6-20-B-*	82	M 6	20	20	20	-	22.5	1	-	-	-	3.7	19.5	103
GN 927.4-82-M6-25-B-*	82	M 6	25	20	20	-	22.5	1	-	-	-	3.7	19.5	104
GN 927.4-82-M6-30-B-*	82	M 6	30	20	20	-	22.5	1	-	-	-	3.7	19.5	106
GN 927.4-82-M6-35-B-*	82	M 6	35	20	20	-	22.5	1	-	-	-	3.7	19.5	106
GN 927.4-82-M6-40-B-*	82	M 6	40	20	20	-	22.5	1	-	-	-	3.7	19.5	108
GN 927.4-82-M6-50-B-*	82	M 6	50	20	20	-	22.5	1	-	-	-	3.7	19.5	111
GN 927.4-82-M6-60-B-*	82	M 6	60	20	20	-	22.5	1	-	-	-	3.7	19.5	111
GN 927.4-82-M8-20-B-*	82	M 8	20	20	20	-	22.5	1	-	-	-	3.7	19.5	106
GN 927.4-82-M8-25-B-*	82	M 8	25	20	20	-	22.5	1	-	-	-	3.7	19.5	110
GN 927.4-82-M8-30-B-*	82	M 8	30	20	20	-	22.5	1	-	-	-	3.7	19.5	111
GN 927.4-82-M8-35-B-*	82	M 8	35	20	20	-	22.5	1	-	-	-	3.7	19.5	112
GN 927.4-82-M8-40-B-*	82	M 8	40	20	20	-	22.5	1	-	-	-	3.7	19.5	114
GN 927.4-82-M8-50-B-*	82	M 8	50	20	20	-	22.5	1	-	-	-	3.7	19.5	116
GN 927.4-82-M8-60-B-*	82	M 8	60	20	20	-	22.5	1	-	-	-	3.7	19.5	120
GN 927.4-101-M8-20-B-*	101	M 8	20	25	26	-	27	1.5	-	-	-	4.8	25.3	200
GN 927.4-101-M8-25-B-*	101	M 8	25	25	26	-	27	1.5	-	-	-	4.8	25.3	203
GN 927.4-101-M8-30-B-*	101	M 8	30	25	26	-	27	1.5	-	-	-	4.8	25.3	204
GN 927.4-101-M8-35-B-*	101	M 8	35	25	26	-	27	1.5	-	-	-	4.8	25.3	208
GN 927.4-101-M8-40-B-*	101	M 8	40	25	26	-	27	1.5	-	-	-	4.8	25.3	209
GN 927.4-101-M8-50-B-*	101	M 8	50	25	26	-	27	1.5	-	-	-	4.8	25.3	210
GN 927.4-101-M8-60-B-*	101	M 8	60	25	26	-	27	1.5	-	-	-	4.8	25.3	214
GN 927.4-101-M10-20-B-*	101	M 10	20	25	26	-	27	1.5	-	-	-	4.8	25.3	200
GN 927.4-101-M10-25-B-*	101	M 10	25	25	26	-	27	1.5	-	-	-	4.8	25.3	203
GN 927.4-101-M10-30-B-*	101	M 10	30	25	26	-	27	1.5	-	-	-	4.8	25.3	210
GN 927.4-101-M10-35-B-*	101	M 10	35	25	26	-	27	1.5	-	-	-	4.8	25.3	220
GN 927.4-101-M10-40-B-*	101	M 10	40	25	26	-	27	1.5	-	-	-	4.8	25.3	215
GN 927.4-101-M10-50-B-*	101	M 10	50	25	26	-	27	1.5	-	-	-	4.8	25.3	221
GN 927.4-101-M10-60-B-*	101	M 10	60	25	26	-	27	1.5	-	-	-	4.8	25.3	221

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Clamping levers with eccentrical cam

Contact plate Plastic, Lever Steel

SPECIFICATION

Types

- Type **A**: Plastic contact plate with setting nut
- Type **B**: Plastic contact plate without setting nut

Lever
Steel (precision casting)
zinc plated, blue passivated

Contact plates
Plastic, glass fibre reinforced

- Type A: Polyacetal (POM)
- Type B: Polyamide (PA)

Version with threaded insert

Axis, lag nut, setting nut
Steel zinc plated, blue passivated

Version with threaded stud

Axis, lag screw, setting screw
Steel zinc plated, blue passivated

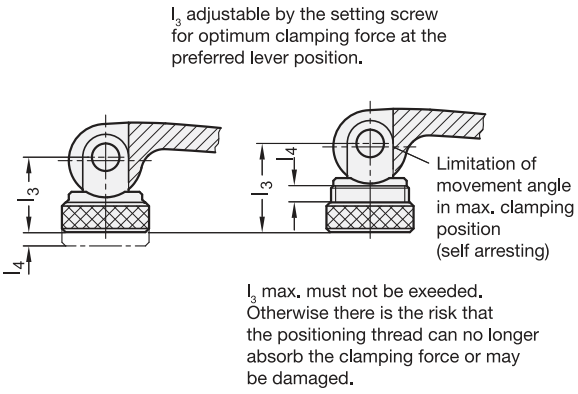
INFORMATION

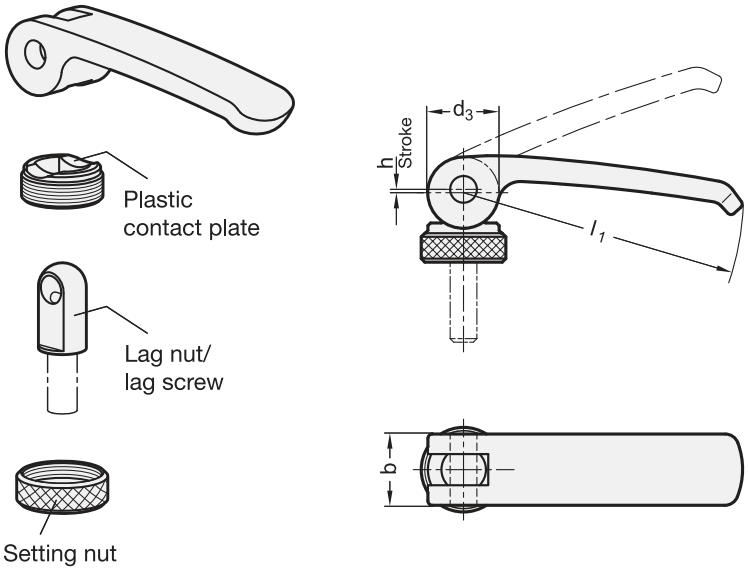
Clamping levers with eccentrical cam GN 927.3 are used for rapid clamping and releasing. Hereby, contrary to a clamping operation via a thread, these levers permit a **torque-free** clamping.
The lever has been designed to ensure that its movement cannot exceed the max. clamping force.
There are no loose components since they are all assembled and mounted in their correct order.
Type A has the following benefits:
The distance between the lever cam and the clamping surface is adjustable via a fine pitch thread, allowing the clamping position to be set easily with maximum clamping force. Also, the position of the lever relative to the clamping axis can be determined.
With these clamping levers with eccentrical cam, clamping forces of up to 8 kN can be reached.

TECHNICAL INFORMATION

- Plastic characteristics (see page A2)

CONSCTRUCTIONAL FEATURES (TYPE A) / APPLICATION EXAMPLE





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GN 927.3 | Clamping levers with eccentrical cam

*Complete with type of the Clamping lever (A or B)

A with setting nut

B without setting nut

GN 927.3-with threaded insert

Description	l1	d1	b	d3	d4	d5	h	l3 min.	l3 max.	l4	l5	l6	t	⚖
GN 927.3-63-M5-*	63	M 5	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	10	63
GN 927.3-63-M6-*	63	M 6	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	10	63
GN 927.3-82-M6-*	82	M 6	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	12	125
GN 927.3-82-M8-*	82	M 8	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	12	123
GN 927.3-101-M8-*	101	M 8	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	15	243
GN 927.3-101-M10-*	101	M 10	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	15	240

GN 927.3-with threaded stud

Description	l1	d2	l2	b	d3	d4	d5	h	l3 min.	l3 max.	l4	l5	l6	⚖
GN 927.3-63-M5-16-*	63	M 5	16	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	45
GN 927.3-63-M5-20-*	63	M 5	20	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	66
GN 927.3-63-M5-25-*	63	M 5	25	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	68
GN 927.3-63-M5-30-*	63	M 5	30	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	69
GN 927.3-63-M5-35-*	63	M 5	35	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	69
GN 927.3-63-M5-40-*	63	M 5	40	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	70
GN 927.3-63-M5-50-*	63	M 5	50	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	71
GN 927.3-63-M6-16-*	63	M 6	16	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	67
GN 927.3-63-M6-20-*	63	M 6	20	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	67
GN 927.3-63-M6-25-*	63	M 6	25	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	69
GN 927.3-63-M6-30-*	63	M 6	30	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	70
GN 927.3-63-M6-35-*	63	M 6	35	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	70
GN 927.3-63-M6-40-*	63	M 6	40	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	72
GN 927.3-63-M6-50-*	63	M 6	50	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	76
GN 927.3-82-M6-20-*	82	M 6	20	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	131
GN 927.3-82-M6-25-*	82	M 6	25	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	131
GN 927.3-82-M6-30-*	82	M 6	30	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	132
GN 927.3-82-M6-35-*	82	M 6	35	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	134
GN 927.3-82-M6-40-*	82	M 6	40	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	137
GN 927.3-82-M6-50-*	82	M 6	50	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	137
GN 927.3-82-M6-60-*	82	M 6	60	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	138
GN 927.3-82-M8-20-*	82	M 8	20	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	121
GN 927.3-82-M8-25-*	82	M 8	25	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	124
GN 927.3-82-M8-30-*	82	M 8	30	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	124
GN 927.3-82-M8-35-*	82	M 8	35	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	126
GN 927.3-82-M8-40-*	82	M 8	40	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	126
GN 927.3-82-M8-50-*	82	M 8	50	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	130
GN 927.3-82-M8-60-*	82	M 8	60	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	134
GN 927.3-101-M8-20-*	101	M 8	20	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	255
GN 927.3-101-M8-25-*	101	M 8	25	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	256
GN 927.3-101-M8-30-*	101	M 8	30	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	258
GN 927.3-101-M8-35-*	101	M 8	35	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	260
GN 927.3-101-M8-40-*	101	M 8	40	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	261
GN 927.3-101-M8-50-*	101	M 8	50	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	262
GN 927.3-101-M8-60-*	101	M 8	60	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	266
GN 927.3-101-M10-20-*	101	M 10	20	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	233
GN 927.3-101-M10-25-*	101	M 10	25	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	236
GN 927.3-101-M10-30-*	101	M 10	30	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	238
GN 927.3-101-M10-35-*	101	M 10	35	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	238
GN 927.3-101-M10-40-*	101	M 10	40	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	241
GN 927.3-101-M10-50-*	101	M 10	50	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	257
GN 927.3-101-M10-60-*	101	M 10	60	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	260

Weight type A

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Stainless Steel-Clamping levers with eccentrical cam

Single parts Stainless Steel / Contact plate Plastic / Lever Stainless Steel

SPECIFICATION

Types

- Type **A**: Plastic contact plate with setting nut
- Type **B**: Plastic contact plate without setting nut

Lever
Stainless Steel AISI CF-8
(precision casting)

Contact plates
Plastic, glass fibre reinforced

- Type A: Polyacetal (POM)
- Type B: Polyamide (PA)

Version with threded insert

Axis, lag nut, setting nut
Stainless Steel AISI 303

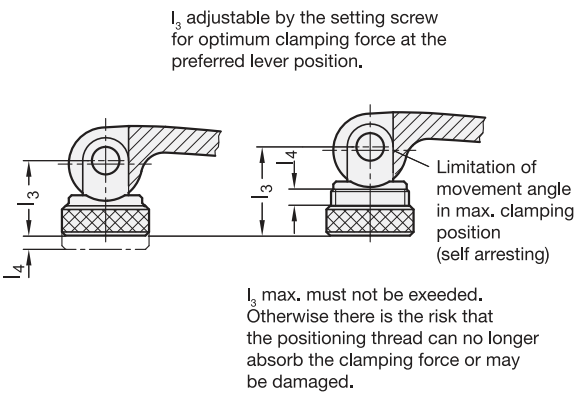
Version with threaded stud

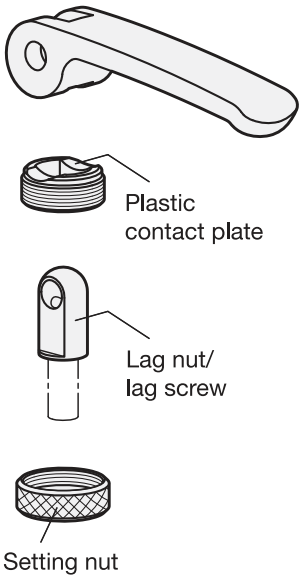
Axis, lag screw, setting screw
Stainless Steel AISI 303

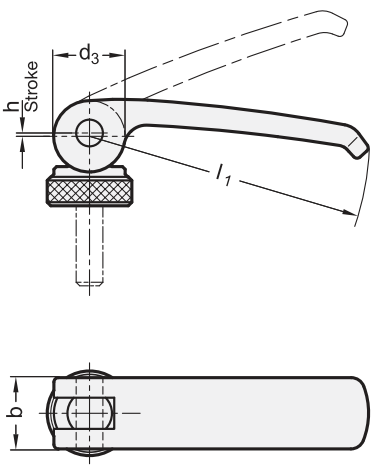
INFORMATION

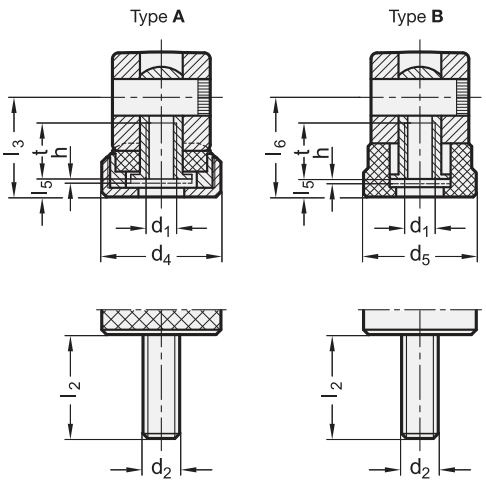
Clamping levers with eccentrical cam GN 927.5 with stainless steel internal thread are used for rapid clamping and releasing. Hereby, contrary to a clamping operation via a thread, these levers permit a **torque-free** clamping.
The lever has been designed to ensure that its movement cannot exceed the max. clamping force.
There are no loose components since they are all assembled and mounted in their correct order.
Type A has the following benefits:
The distance between the lever cam and the clamping surface is adjustable via a fine pitch thread, allowing the clamping position to be set easily with maximum clamping force. Also, the position of the lever relative to the clamping axis can be determined.
With these clamping levers with eccentrical cam, clamping forces of up to 8 kN can be reached.

CONSTRUCTIONAL FEATURES (TYPE A) / APPLICATION EXAMPLE









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GN 927.5 | Stainless Steel-Clamping levers with eccentrical cam

*Complete with type of the Clamping lever (A or B)

A with setting nut

B without setting nut

GN 927.5-with threaded insert

STAINLESS STEEL

Description	l1	d1	b	d3	d4	d5	h	l3 min.	l3 max.	l4	l5	l6	t	⚖
GN 927.5-63-M5-*	63	M 5	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	10	57
GN 927.5-63-M6-*	63	M 6	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	10	56
GN 927.5-82-M6-*	82	M 6	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	12	126
GN 927.5-82-M8-*	82	M 8	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	12	124
GN 927.5-101-M8-*	101	M 8	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	15	239
GN 927.5-101-M10-*	101	M 10	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	15	238

GN 927.5-with threaded stud

STAINLESS STEEL

Description	l1	d2	l2	b	d3	d4	d5	h	l3 min.	l3 max.	l4	l5	l6	⚖
GN 927.5-63-M5-16-*	63	M 5	16	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	66
GN 927.5-63-M5-20-*	63	M 5	20	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	66
GN 927.5-63-M5-25-*	63	M 5	25	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	67
GN 927.5-63-M5-30-*	63	M 5	30	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	67
GN 927.5-63-M5-35-*	63	M 5	35	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	68
GN 927.5-63-M5-40-*	63	M 5	40	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	68
GN 927.5-63-M5-50-*	63	M 5	50	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	70
GN 927.5-63-M6-16-*	63	M 6	16	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	60
GN 927.5-63-M6-20-*	63	M 6	20	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	61
GN 927.5-63-M6-25-*	63	M 6	25	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	62
GN 927.5-63-M6-30-*	63	M 6	30	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	63
GN 927.5-63-M6-35-*	63	M 6	35	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	64
GN 927.5-63-M6-40-*	63	M 6	40	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	64
GN 927.5-63-M6-50-*	63	M 6	50	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	66
GN 927.5-82-M6-20-*	82	M 6	20	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	132
GN 927.5-82-M6-25-*	82	M 6	25	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	132
GN 927.5-82-M6-30-*	82	M 6	30	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	133
GN 927.5-82-M6-35-*	82	M 6	35	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	135
GN 927.5-82-M6-40-*	82	M 6	40	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	135
GN 927.5-82-M6-50-*	82	M 6	50	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	137
GN 927.5-82-M6-60-*	82	M 6	60	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	139
GN 927.5-82-M8-20-*	82	M 8	20	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	121
GN 927.5-82-M8-25-*	82	M 8	25	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	123
GN 927.5-82-M8-30-*	82	M 8	30	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	130
GN 927.5-82-M8-35-*	82	M 8	35	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	134
GN 927.5-82-M8-40-*	82	M 8	40	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	134
GN 927.5-82-M8-50-*	82	M 8	50	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	136
GN 927.5-82-M8-60-*	82	M 8	60	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	138
GN 927.5-101-M8-20-*	101	M 8	20	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	228
GN 927.5-101-M8-25-*	101	M 8	25	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	229
GN 927.5-101-M8-30-*	101	M 8	30	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	233
GN 927.5-101-M8-35-*	101	M 8	35	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	234
GN 927.5-101-M8-40-*	101	M 8	40	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	236
GN 927.5-101-M8-50-*	101	M 8	50	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	239
GN 927.5-101-M8-60-*	101	M 8	60	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	241
GN 927.5-101-M10-20-*	101	M 10	20	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	233
GN 927.5-101-M10-25-*	101	M 10	25	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	235
GN 927.5-101-M10-30-*	101	M 10	30	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	238
GN 927.5-101-M10-35-*	101	M 10	35	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	240
GN 927.5-101-M10-40-*	101	M 10	40	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	243
GN 927.5-101-M10-50-*	101	M 10	50	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	248
GN 927.5-101-M10-60-*	101	M 10	60	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	251

Weight type A

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Stainless Steel-Clamping levers with eccentrical cam

Contact plate, Stainless Steel

SPECIFICATION

Types

- Type **A**: Stainless Steel contact plate with setting nut
- Type **B**: Stainless Steel contact plate without setting nut

Lever
Stainless Steel AISI CF-8

Contact plates
Stainless Steel AISI 431
hardened

Version with threaded insert

Axis, lag nut, setting nut
Stainless Steel AISI 303

Version with threaded stud

Axis, lag screw, setting screw
Stainless Steel AISI 303

INFORMATION

Stainless Steel-Clamping levers with eccentrical cam GN 927.7 are used for rapid clamping and releasing. Hereby, contrary to a clamping operation via a thread, these levers permit a **torque-free** clamping.
The lever has been designed to ensure that its movement cannot exceed the max. clamping force.
There are no loose components since they are all assembled and mounted in their correct order.
Type A has the following benefits:
The distance between the lever cam and the clamping surface is adjustable via a fine pitch thread, allowing the clamping position to be set easily with maximum clamping force. Also, the position of the lever relative to the clamping axis can be determined.
With these clamping levers with eccentrical cam, clamping forces of up to 8 kN can be reached.

ON REQUEST

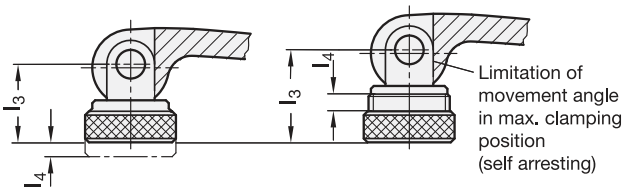
- Clamping surface free of grease

TECHNICAL INFORMATION

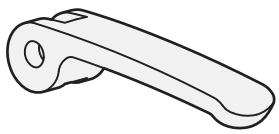
- Stainless Steel characteristics (see page A26)

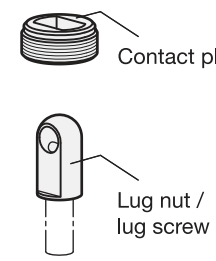
CONSTRUCTIONAL FEATURES (TYPE A) / APPLICATION EXAMPLE

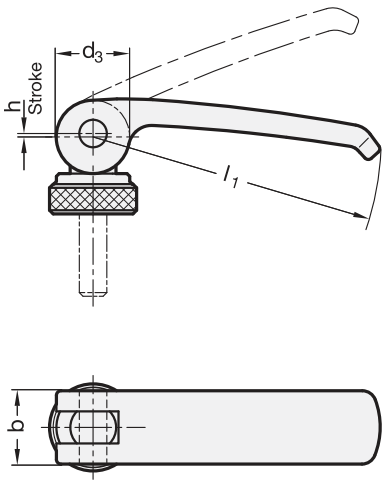
l_3 adjustable by the setting screw for optimum clamping force at the preferred lever position.

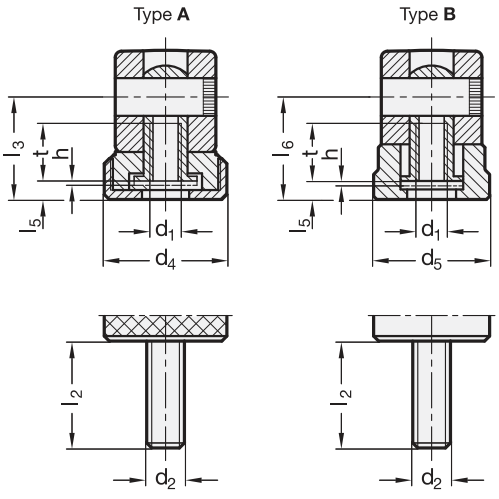


l_3 max. must not be exeeded. Otherwise there is the risk that the positioning thread can no longer absorb the clamping force or may be damaged.









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GN 927.7 | Stainless Steel-Clamping levers with eccentrical cam

*Complete with type of the Clamping lever (A or B)

A with setting nut

B without setting nut

GN 927.7-with threaded insert

STAINLESS STEEL

Description	l1	d1	b	d3	d4	d5	h	l3 min.	l3 max.	l4	l5	l6	t	⚖
GN 927.7-63-M5-*	63	M 5	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	10	66
GN 927.7-63-M6-*	63	M 6	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	10	65
GN 927.7-82-M6-*	82	M 6	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	12	129
GN 927.7-82-M8-*	82	M 8	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	12	128
GN 927.7-101-M8-*	101	M 8	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	15	250
GN 927.7-101-M10-*	101	M 10	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	15	247

GN 927.7-with threaded stud

STAINLESS STEEL

Description	l1	d2	l2	b	d3	d4	d5	h	l3 min.	l3 max.	l4	l5	l6	⚖
GN 927.7-63-M5-16-*	63	M 5	16	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	69
GN 927.7-63-M5-20-*	63	M 5	20	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	70
GN 927.7-63-M5-25-*	63	M 5	25	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	70
GN 927.7-63-M5-30-*	63	M 5	30	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	71
GN 927.7-63-M5-35-*	63	M 5	35	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	71
GN 927.7-63-M5-40-*	63	M 5	40	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	72
GN 927.7-63-M5-50-*	63	M 5	50	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	73
GN 927.7-63-M6-16-*	63	M 6	16	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	69
GN 927.7-63-M6-20-*	63	M 6	20	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	70
GN 927.7-63-M6-25-*	63	M 6	25	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	71
GN 927.7-63-M6-30-*	63	M 6	30	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	71
GN 927.7-63-M6-35-*	63	M 6	35	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	72
GN 927.7-63-M6-40-*	63	M 6	40	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	73
GN 927.7-63-M6-50-*	63	M 6	50	16	16	19	18.5	0.75	16.3	18.8	2.5	3	16.3	75
GN 927.7-82-M6-20-*	82	M 6	20	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	135
GN 927.7-82-M6-25-*	82	M 6	25	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	136
GN 927.7-82-M6-30-*	82	M 6	30	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	137
GN 927.7-82-M6-35-*	82	M 6	35	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	138
GN 927.7-82-M6-40-*	82	M 6	40	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	139
GN 927.7-82-M6-50-*	82	M 6	50	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	140
GN 927.7-82-M6-60-*	82	M 6	60	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	142
GN 927.7-82-M8-20-*	82	M 8	20	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	139
GN 927.7-82-M8-25-*	82	M 8	25	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	140
GN 927.7-82-M8-30-*	82	M 8	30	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	141
GN 927.7-82-M8-35-*	82	M 8	35	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	143
GN 927.7-82-M8-40-*	82	M 8	40	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	145
GN 927.7-82-M8-50-*	82	M 8	50	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	146
GN 927.7-82-M8-60-*	82	M 8	60	20	20	25	22.5	1	19.5	22.5	3	3.7	19.5	150
GN 927.7-101-M8-20-*	101	M 8	20	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	263
GN 927.7-101-M8-25-*	101	M 8	25	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	265
GN 927.7-101-M8-30-*	101	M 8	30	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	266
GN 927.7-101-M8-35-*	101	M 8	35	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	267
GN 927.7-101-M8-40-*	101	M 8	40	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	266
GN 927.7-101-M8-50-*	101	M 8	50	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	272
GN 927.7-101-M8-60-*	101	M 8	60	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	273
GN 927.7-101-M10-20-*	101	M 10	20	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	267
GN 927.7-101-M10-25-*	101	M 10	25	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	267
GN 927.7-101-M10-30-*	101	M 10	30	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	271
GN 927.7-101-M10-35-*	101	M 10	35	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	272
GN 927.7-101-M10-40-*	101	M 10	40	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	277
GN 927.7-101-M10-50-*	101	M 10	50	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	281
GN 927.7-101-M10-60-*	101	M 10	60	25	26	30	27	1.5	25.3	29.3	4	4.8	25.3	286

Weight type A

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Cam levers

Technopolymer

ELESA Original design

CAM LEVER BODY
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

ROTATING PIN
Glossy zinc-plated steel or AISI 303 stainless steel, with threaded hole or threaded stud.

CONNECTION AND RETENTION ELEMENT BETWEEN THE LEVER AND THE CAM SLIDING BASE
Polyamide based technopolymer (PA), black colour.

CAM SLIDING BASE
Polyamide-based SUPER-technopolymer (PA), black colour.

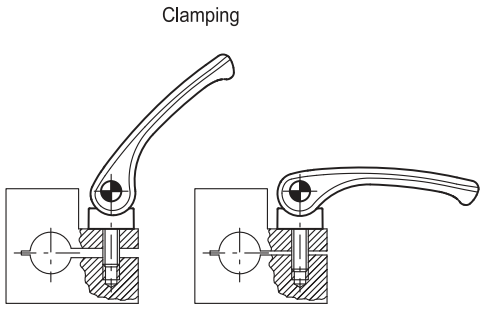
ADJUSTABLE KNURLED RING-NUT
Polyamide-based SUPER-technopolymer (PA), black colour.

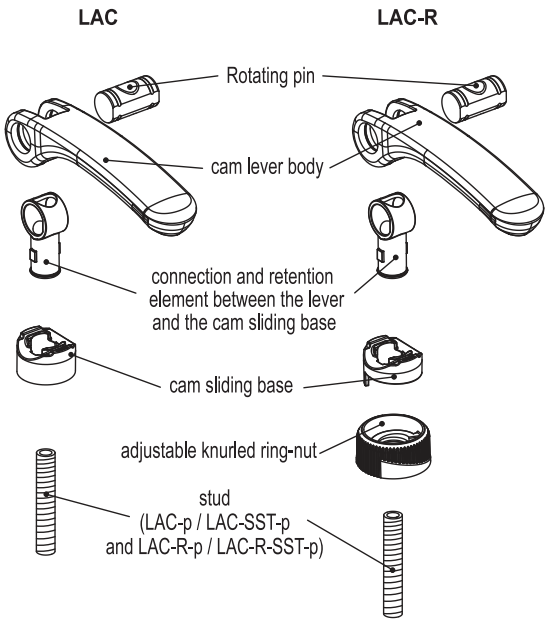
STANDARD EXECUTIONS
- **LAC-B**: positioning without adjustable ring-nut, rotating pin with zinc-plated steel threaded hole.
- **LAC-SST**: positioning without adjustable ring-nut, rotating pin with AISI 303 stainless steel threaded hole.
- **LAC-p**: positioning without adjustable ring-nut, rotating pin with zinc-plated steel threaded stud, chamfered flat end UNI 947: ISO 4753 (see Technical Data on page A11).
- **LAC-SST-p**: positioning without adjustable ring-nut, rotating pin with AISI 303 stainless steel threaded stud, chamfered flat end UNI 947: ISO 4753 (see Technical Data on page A11).
- **LAC-R-B**: positioning with adjustable ring-nut, rotating pin with zinc-plated steel threaded hole.
- **LAC-R-p**: positioning with adjustable ring-nut, rotating pin with zinc-plated steel threaded stud, chamfered flat end UNI 947: ISO 4753 (see Technical Data on page A11).
- **LAC-R-SST**: positioning with adjustable ring-nut, rotating pin with AISI 303 stainless steel threaded hole.
- **LAC-R-SST-p**: positioning with adjustable ring-nut, rotating pin with threaded stud in AISI 303 stainless steel, chamfered flat end UNI 947: ISO 4753 (see Technical Data on page A11).

FEATURES AND APPLICATIONS
Cam lever is a device which allows a quick and secure clamping.
The LAC-R model with adjustable ring-nut (ELESA patent) offers quick and secure clamping. The knurled ring-nut on the base allows to adjust the clamping force applied while locking the lever in the desired position.

RECOMMENDATIONS FOR ASSEMBLY
LAC-B, LAC-SST, LAC-R-B and LAC-R-SST with threaded hole. The screw where the cam lever is mounted must protrude from the assembly surface by a maximum length of h1 max from the end-stop as shown in table and fig.1. The user will notice the h1 max value is reached as the screw rests on the end-stop in the connecting element.

INSTRUCTIONS FOR CLAMPING AND ADJUSTMENT
LAC: lift and rotate the lever clockwise until it stops, then, to complete clamping, lower the lever whose fulcrum is an eccentric cam which controls the base by rotating.
LAC-R: rotate the lever clockwise until it stops.
Fine adjustment: rotate clockwise or anti-clockwise the knurled adjustable ring-nut to calibrate the clamping force and put the lever in the desired position. The ring-nut is marked with minimum and maximum adjustment values: half a turn is enough for adjustment.
Clamping: lower the lever whose fulcrum is an eccentric cam which controls the adjusting base by rotating.





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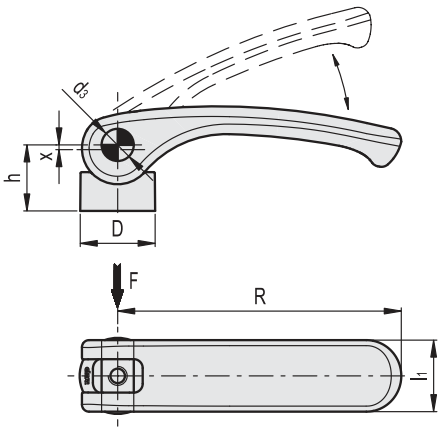
LAC-B
LAC-SST



LAC-p
LAC-SST-p

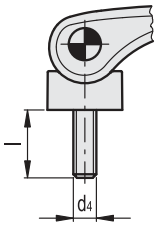
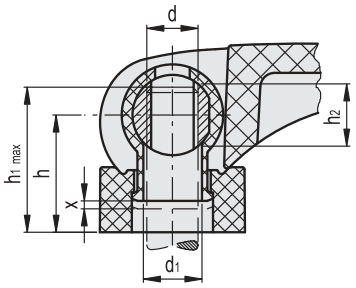


Fig.1



LAC-B

Code	Description	R	d	D	h	h1 max	h2	d1	d3	l1	x	Fmax [N]	⚖
33482	LAC.63 B-M6	63	M6	18	18	20	4	6.1	9	18	0.75	4000	23
33562	LAC.80 B-M8	79	M8	20	21	25.5	7	8.1	11	20	1	7000	32

LAC-SST STAINLESS STEEL

Code	Description
33487	LAC.63 SST-M6
33567	LA C.80 SST-M8

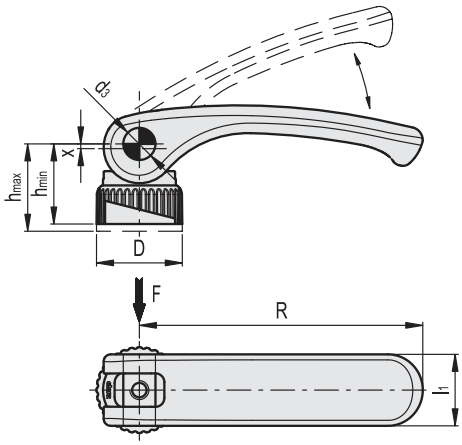
LAC-p

Code	Description	R	d4	D	h	d1	d3	l	l1	x	Fmax [N]	⚖
33492	LAC.63 p-M6x25	63	M6	18	18	6.1	9	25	18	0.75	4000	33
33496	LAC.63 p-M6x50	63	M6	18	18	6.1	9	50	18	0.75	4000	42
33582	LAC.80 p-M8x25	79	M8	20	21	8.1	11	25	20	1	7000	46
33586	LAC.80 p-M8x50	79	M8	20	21	8.1	11	50	20	1	7000	55

LAC-SST-p STAINLESS STEEL

Code	Description
33497	LAC-63 SST-p-M6x25
33501	LAC-63 SST-p-M6x50
33587	LAC-80 SST-p-M8x25
33591	LAC-80 SST-p-M8x50

LAC-R-B
LAC-R-SST



LAC-R-p
LAC-R-SST-p

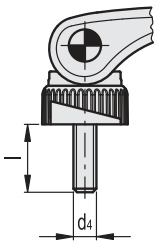
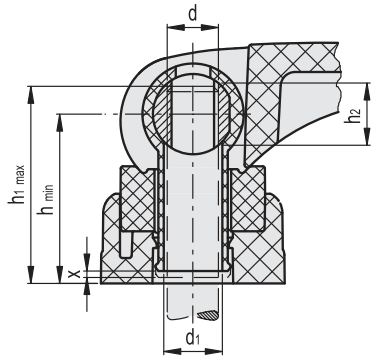


Fig.1



LAC-R-B

Code	Description	R	d	D	hmin	hmax	h1 max	h2	d1	d3	l1	x	Fmax [N]	⚖
33462	LAC-R-63 B-M6	63	M6	21	22.5	24	26	4	6.1	9	18	0.75	4000	25
33512	LAC-R-80 B-M8	79	M8	25	26.5	28	32.5	7	8.1	11	20	1	7000	39

LAC-R-SST STAINLESS STEEL

Code	Description
33467	LAC-R-63 SST-M6
33517	LAC-R-80 SST-M8

LAC-R-p

Code	Description	R	d4	D	hmin	hmax	d1	d3	l	l1	x	Fmax [N]	⚖
33472	LAC-R-63 p-M6x25	63	M6	21	22.5	24	6.1	9	25	18	0.75	4000	35
33476	LAC-R-63 p-M6x50	63	M6	21	22.5	24	6.1	9	50	18	0.75	4000	44
33532	LAC-R-80 p-M8x25	79	M8	25	26.5	28	8.1	11	25	20	1	7000	53
33536	LAC-R-80 p-M8x50	79	M8	25	26.5	28	8.1	11	50	20	1	7000	62

LAC-R-SST-p STAINLESS STEEL

Code	Description
33477	LAC-R-63 SST-p-M6x25
33481	LAC-R-63 SST-p-M6x50
33537	LAC-R-80 SST-p-M8x25
33541	LAC-R-80 SST-p-M8x50

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Lever handles

Technopolymer

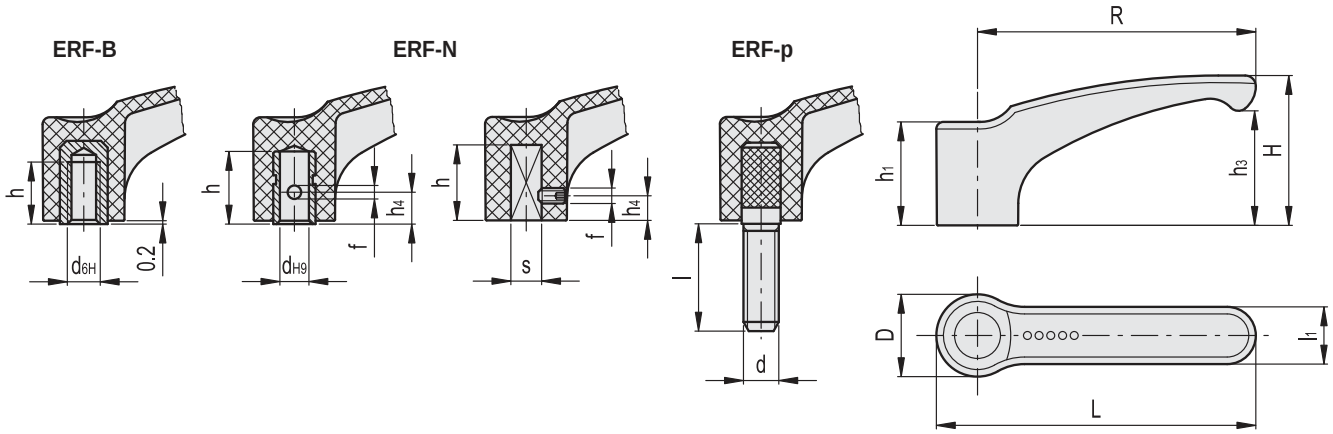
MATERIAL

Glass-fibre reinforced polyamide based (PA) technopolymer, grey-black colour, matte finish.

STANDARD EXECUTIONS

- **ERF-B:** brass boss, threaded blind hole.
- **ERF-N:**
  - cylindrical blind hole, brass reinforcement and transversal semi-machined hole for pinning to shaft.
  - square blind hole, brass reinforcement with transversal set screw UNI 5929-85 (grub screws with hexagon socket and cup end).
- **ERF-p**: zinc-plated steel threaded stud, chamfered flat end UNI 947 : ISO 4753 (see Technical Data on page A11).

ERGOSTYLE®



ERF-B

Code	Description	R	d6H	L	D	H	h	h1	h3	l1	⚖
232103-C1	ERF.44 B-M5-C1	44	M5	52	15.5	26.5	10	19	19	11	10
232101-C1	ERF.44 B-M6-C1	44	M6	52	15.5	26.5	12	19	19	11	9
232121-C1	ERF.63 B-M8-C1	63	M8	73.5	19	35	13	24.5	26.5	13.5	19
232141-C1	ERF.78 B-M10-C1	78	M10	90.5	23	42	17	29.5	32	16	42
232161-C1	ERF.95 B-M12-C1	95	M12	109	26.5	51.5	20	34	40	18	48

ERF-N

Code	Description	R	dH9	sH10	L	D	H	h	h1	h3	h4	l1	f	⚖
232106-C1	ERF.44 N-5x5-C1	44	-	5	52	15.5	26.5	15	19	19	7	11	M4	5
232111-C1	ERF.44 N-6-C1	44	6	-	52	15.5	26.5	15	19	19	7	11	3	5
232126-C1	ERF.63 N-6x6-C1	63	-	6	73.5	19	35	20	24.5	26.5	8	13.5	M4	11
232131-C1	ERF.63 N-8-C1	63	8	-	73.5	19	35	20	24.5	26.5	8	13.5	4	11
232146-C1	ERF.78 N-8x8-C1	78	-	8	90.5	23	42	25	29.5	32	9	16	M5	31
232151-C1	ERF.78 N-10-C1	78	10	-	90.5	23	42	25	29.5	32	9	16	4	31
232166-C1	ERF.95 N-10x10-C1	95	-	10	109	26.5	51.5	30	34	40	10	18	M5	37
232171-C1	ERF.95 N-12-C1	95	12	-	109	26.5	51.5	30	34	40	10	18	5	37

ERF-p

Code	Description	R	d6g	L	D	H	h1	h3	l	l1	⚖
232116-C1	ERF.44 p-M6x16-C1	44	M6	52	15.5	26.5	19	19	16	11	13
232136-C1	ERF.63 p-M8x25-C1	63	M8	73.5	19	35	24.5	26.5	25	13.5	32
232140-C1	ERF.63 p-M8x45-C1	63	M8	73.5	19	35	24.5	26.5	45	13.5	42
232156-C1	ERF.78 p-M10x30-C1	78	M10	90.5	23	42	29.5	32	30	16	61
232176-C1	ERF.95 p-M12x50-C1	95	M12	109	26.5	51.5	34	40	50	18	85

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Flat lever handles

Technopolymer

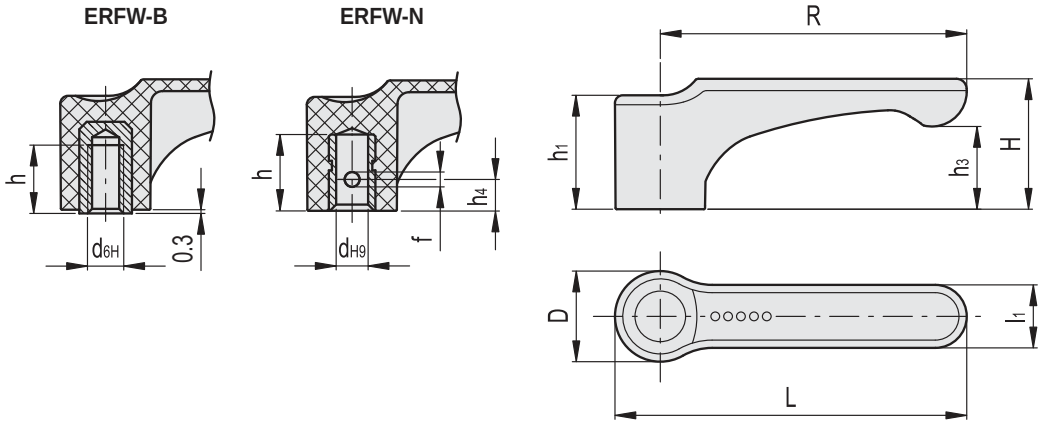
MATERIAL

Glass-fibre reinforced polyamide based (PA) technopolymer, grey-black colour, matte finish.

STANDARD EXECUTIONS

- **ERFW-B:** brass boss, threaded blind hole.
- **ERFW-N:** cylindrical blind hole, brass reinforcement and transversal semi-machined hole for pinning to shaft.

ERGOSTYLE®



ERFW-B

Code	Description	R	d6H	L	D	H	h	h1	h3	l1	⚖
232301-C1	ERFW.44 B-M6-C1	44	M6	52	15.5	21	12	19	13	11	9
232321-C1	ERFW.63 B-M8-C1	63	M8	73	19	28	13	25	18	13.5	19
232341-C1	ERFW.78 B-M10-C1	78	M10	90.5	23	33	17	30	21	16	42

ERFW-N

Code	Description	R	dH9	L	D	H	h	h1	h3	h4	l1	f	⚖
232311-C1	ERFW.44 N-6-C1	44	6	52	15.5	21	15	19	13	7	11	3	5
232331-C1	ERFW.63 N-8-C1	63	8	73	19	28	20	25	18	8	13.5	4	11
232351-C1	ERFW.78 N-10-C1	78	10	90.5	23	33	25	30	21	9	16	4	31

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Lever handles

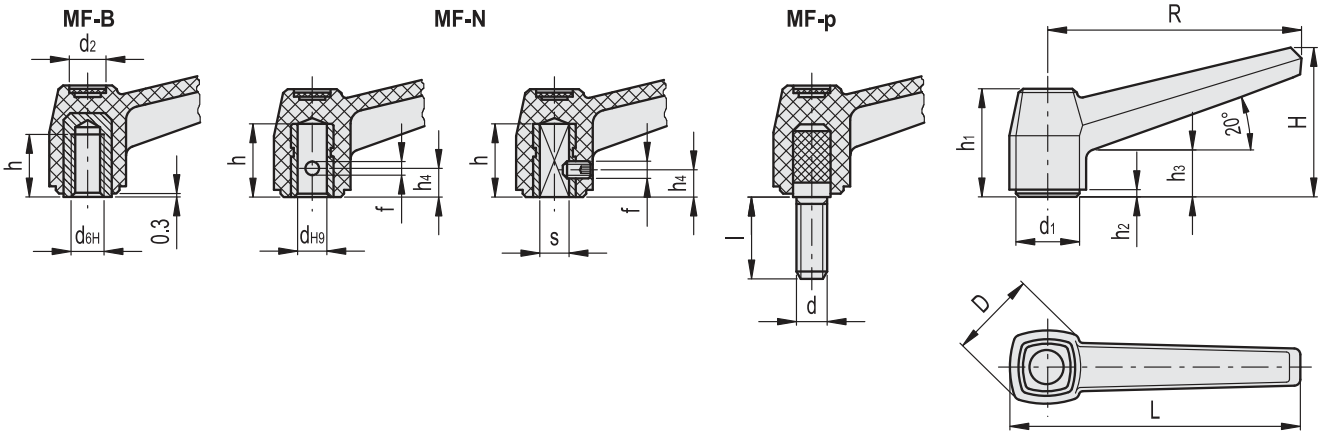
Technopolymer

MATERIAL
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

FRONT PLATE
Matte anodised aluminium.

STANDARD EXECUTIONS
- **MF-B:** brass boss, threaded blind hole.
- **MF-N:**
  - cylindrical blind hole, brass reinforcement and transversal semi-machined hole for pinning to shaft.
  - square blind hole, brass reinforcement with transversal set screw UNI 5929-85 (grub screws with hexagon socket and cup end).
- **MF-p:** zinc-plated steel threaded stud, chamfered flat end UNI 947 : ISO 4753 (see Technical Data on page A11).

ELESA Original design



MF-B

Code	Description	R	d6H	L	D	H	h	h1	h2	h3	d1	d2	⚖
39041	MF.40 B-M5	42	M5	50	18	27	10	22	1.8	9	11.5	9	14
39001	MF.40 B-M6	42	M6	50	18	27	12	22	1.8	9	11.5	9	13
39111	MF.63 B-M8	63	M8	73	23	37	13	27	2	11	14.5	9	23
39211	MF.80 B-M10	80	M10	92	28	47	17	34	2.2	14	18.5	11	39
39311	MF.100 B-M12	100	M12	115	35	57	20	40	2.4	16	23.5	13	70

MF-N

Code	Description	R	dH9	sH9	L	D	H	h	h1	h2	h3	h4	d1	d2	f	⚖
39011	MF.40 N-5x5	42	-	5	50	18	27	15	22	1.8	9	7	11.5	9	M4	7
39021	MF.40 N-6	42	6	-	50	18	27	15	22	1.8	9	7	11.5	9	3	7
39121	MF.63 N-6x6	63	-	6	73	23	37	20	27	2	11	8	14.5	9	M4	14
39131	MF.63 N-8	63	8	-	73	23	37	20	27	2	11	8	14.5	9	4	14
39221	MF.80 N-8x8	80	-	8	92	28	47	25	34	2.2	14	9	18.5	11	M5	27
39231	MF.80 N-10	80	10	-	92	28	47	25	34	2.2	14	9	18.5	11	4	27
39321	MF.100 N-10x10	100	-	10	115	35	57	30	40	2.4	16	10	23.5	13	M5	50
39331	MF.100 N-12	100	12	-	115	35	57	30	40	2.4	16	10	23.5	13	5	50

MF-p

Code	Description	R	d6g	L	D	H	h1	h2	h3	d1	d2	l	⚖
39031	MF.40 p-M6x16	42	M6	50	18	27	22	1.8	9	11.5	9	16	12
39141	MF.63 p-M8x25	63	M8	73	23	37	27	2	11	14.5	9	25	28
39241	MF.80 p-M10x30	80	M10	92	28	47	34	2.2	14	18.5	11	30	51
39341	MF.100 p-M12x50	100	M12	115	35	57	40	2.4	16	23.5	13	50	104

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GN 316

Ratchet spanner

SPECIFICATION

Housing
Steel
plastic coated
black matt, textured finish

Shaft
Stainless Steel AISI 303
matt shot-blasted

Wearing parts hardened

Domes gear knobs I.222 N (see page 537)
Plastic, Duroplast
black, shiny finish

INFORMATION

Ratchet spanners GN 316 are well designed of robust construction and simple to use.
To exchange the inserts remove screw and cover. They are, however, also practical for fixed applications on any machinery and equipment. For example for assembly and repair work. The inserts are easily interchanged and can be supplied individually.

ON REQUEST

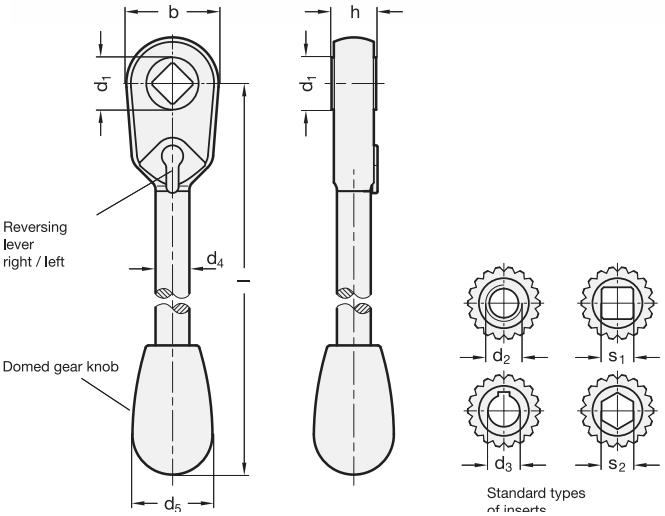
- other inserts

TECHNICAL INFORMATION

- Square DIN 79 (see page A16)
- ISO-Fundamental Tolerances (see page A21)

Function

In order to reverse the operation of this spanner move the cam lever from its middle position either to the left or the right to obtain the function required. In the middle position the ratchet funtion is eliminated and the spann can be used in both directions as an ordinary spanner.



GN 316

Description	d1	d2	d3 H7	s1	s2	b	d4	d5	h	l	Max. torque in Nm	⚖
GN 316-12-M8	12	M 8	-	-	-	22	9	20	11	118	40	88
GN 316-12-V8	12	-	-	V 8	-	22	9	20	11	118	40	87
GN 316-17-K10	17	-	K 10	-	-	30	11	26	14	156	70	194
GN 316-17-K12	17	-	K 12	-	-	30	11	26	14	156	70	200
GN 316-17-M10	17	M 10	-	-	-	30	11	26	14	156	70	190
GN 316-17-M12	17	M 12	-	-	-	30	11	26	14	156	70	180
GN 316-17-SK12	17	-	-	-	SK 12*	30	11	26	14	156	70	189
GN 316-17-V10	17	-	-	V 10	-	30	11	26	14	156	70	191
GN 316-22-K14	22	-	K 14	-	-	39.5	14	33	17	187	130	420
GN 316-22-K16	22	-	K 16	-	-	39.5	14	33	17	187	130	375
GN 316-22-M14	22	M 14*	-	-	-	39.5	14	33	17	187	130	97
GN 316-22-M16	22	M 16	-	-	-	39.5	14	33	17	187	130	380
GN 316-22-SK14	22	-	-	-	SK 14*	39.5	14	33	17	187	130	380
GN 316-22-V12	22	-	-	V 12	-	39.5	14	33	17	187	130	380
GN 316-22-V14	22	-	-	V 14	-	39.5	14	33	17	187	130	360
GN 316-26-K18	26	-	K 18	-	-	46	17	33	22	219	180	610
GN 316-26-M20	26	M 20	-	-	-	46	17	33	22	219	180	600
GN 316-26-SK17	26	-	-	-	SK 17*	46	17	33	22	219	180	600
GN 316-26-V17	26	-	-	V 17	-	46	17	33	22	219	180	605

* not available from stock, requires a minimum order quantity.

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Control levers

Steel, blackened

SPECIFICATION

Steel
blackened

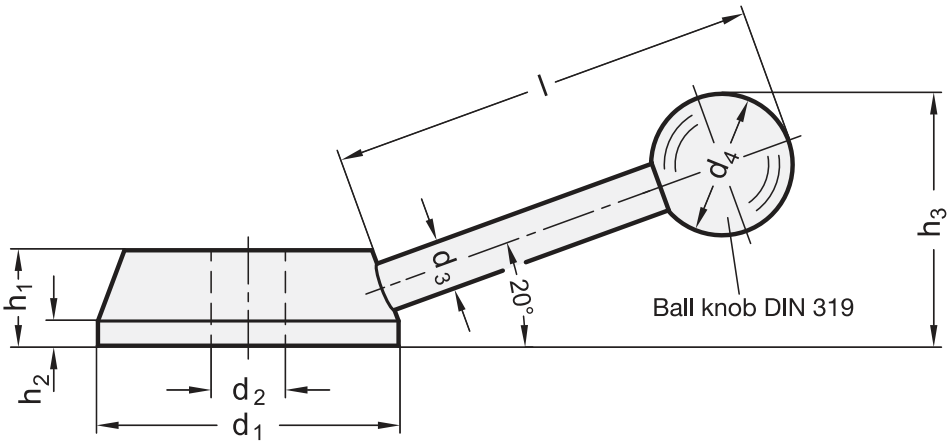
Ball knobs DIN 319 (see page 538)
Plastic, Duroplast
black, shiny finish

INFORMATION

Control levers GN 211 can be used in connection with indexing elements, grooves for angle limitations and such like due to their comparably big hub diameter.
Spring plungers as well as indexing plungers can be used as indexing elements.
Control levers GN 211 can also be supplied as standard with:
Square DIN 79 **V** + Bore-Ø
Keyway DIN 6885 **K** + Bore-Ø

TECHNICAL INFORMATION

- Keyway P9 DIN 6885 (see page A16)
- ISO-Fundamental Tolerances (see page A21)



GN 211

Description	d1	d2 H7	d3	d4	h1	h2	h3 ≈	l ≈	⚖
GN 211-50-B12	50	B 12	8	20	17	5	45	82	244
GN 211-55-B14	55	B 14	10	25	18	5	52	96	321
GN 211-65-B16	65	B 16	12	30	20	5	60	110	519
GN 211-80-B20	80	B 20	14	35	24	6	74	138	951

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DIN 6337

Ball levers

Steel, blackened

SPECIFICATION

Types

- Type **K***: Straight lever with plain bore H7
- Type **L**: Angled lever with plain bore H7
- Type **M***: Straight lever with threaded bore
- Type **N**: Angled lever with threaded bore

* not available from stock, requires a minimum order quantity

Steel

- turned
- blackened

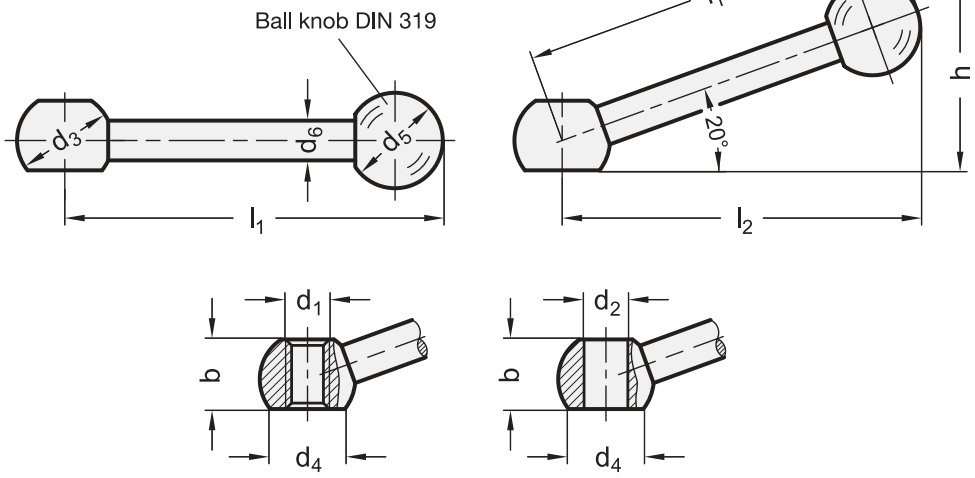
Ball knobs DIN 319 (see page 538)
Plastic, black

INFORMATION

The official DIN standard sheet specifies additional sizes 200 - M24 / B24.

TECHNICAL INFORMATION

- ISO Fundamental Tolerances (see page A21)



DIN 6337

Description	l1	d1	d2 H7	b	d3	d4	d5	d6	h ≈	l2 ≈	⚖
DIN 6337-63-B8-K	63*	-	B 8	12	16	12.5	20	8	-	-	32
DIN 6337-80-B10-K	80*	-	B 10	14.5	20	16	20	9	-	-	53
DIN 6337-100-B12-K	100*	-	B 12	18.5	25	20	25	11	-	-	100
DIN 6337-125-B16-K	125*	-	B 16	24	32	25	32	15	-	-	216
DIN 6337-160-B20-K	160*	-	B 20	30	40	31	40	18	-	-	415
DIN 6337-63-B8-L	63	-	B 8	12	16	12.5	20	8	33	60	32
DIN 6337-80-B10-L	80	-	B 10	14.5	20	16	20	9	40	76	53
DIN 6337-100-B12-L	100	-	B 12	18.5	25	20	25	11	50	95	100
DIN 6337-125-B16-L	125	-	B 16	24	32	25	32	15	63	119	216
DIN 6337-160-B20-L	160	-	B 20	30	40	31	40	18	80	152	415
DIN 6337-63-M8-M	63*	M 8	-	12	16	12.5	20	8	-	-	32
DIN 6337-80-M10-M	80*	M 10	-	14.5	20	16	20	9	-	-	54
DIN 6337-100-M12-M	100*	M 12	-	18.5	25	20	25	11	-	-	102
DIN 6337-125-M16-M	125*	M 16	-	24	32	25	32	15	-	-	223
DIN 6337-160-M20-M	160*	M 20	-	30	40	31	40	18	-	-	425
DIN 6337-63-M8-N	63	M 8	-	12	16	12.5	20	8	33	60	32
DIN 6337-80-M10-N	80	M 10	-	14.5	20	16	20	9	40	76	54
DIN 6337-100-M12-N	100	M 12	-	18.5	25	20	25	11	50	95	102
DIN 6337-125-M16-N	125	M 16	-	24	32	25	32	15	63	119	223
DIN 6337-160-M20-N	160	M 20	-	30	40	31	40	18	80	152	425

* not available from stock, requires a minimum order quantity.

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Tension levers

Steel / Stainless Steel

SPECIFICATION

Types

- Type **C**: Angled lever with plain bore H7
- Type **E**: Angled lever with threaded bore
- Type **B***: Straight lever with plain bore H7
- Type **D***: Straight lever with threaded bore

* not available from stock, requires a minimum order quantity

Version in Steel, blackened

Ball knobs DIN 319 (see page 538)
Plastic, Duroplast
black, shiny finish

Version in Stainless Steel AISI 303 NI

- matt shot-blasted
- only type E

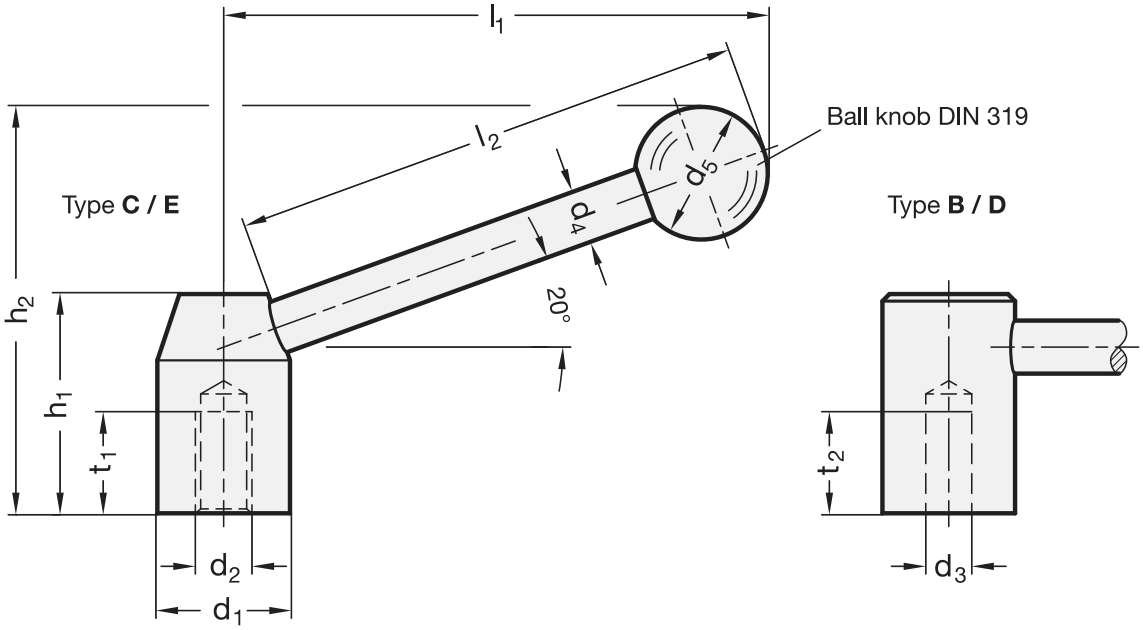
Ball knobs DIN 319 (see page 538)
Plastic, Duroplast
black, shiny finish

INFORMATION

Tension levers GN 212 are used as clamping element as well as operating levers.

TECHNCIAL INFORMATION

- Cross holes GN 110 (see page A17)
- ISO Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)



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GN 212 | Tension levers

GN 212-ST

Description	d1	d2	d3 H7	d4	d5	h1	h2 ≈	l1 ≈	l2	t1 min.	t2 min.	⚖
GN 212-22-B10-B	22	-	B 10	8	20	37	40.5	96	85	-	19	127
GN 212-25-B12-B	25	-	B 12	10	25	42	47	107.5	95	-	21	195
GN 212-28-B12-B	28	-	B 12	12	30	47	53	122	108	-	23	294
GN 212-32-B16-B	32	-	B 16	12	32	52	59	142	126	-	28	382
GN 212-36-B16-B	36	-	B 16	14	35	58	64.5	156	138	-	28	580
GN 212-40-B20-B	40	-	B 20	16	40	64	72	174	154	-	30	778
GN 212-22-B10-C	22	-	B 10	8	20	37	67	89.5	85	-	19	114
GN 212-25-B12-C	25	-	B 12	10	25	42	76	100.5	95	-	21	174
GN 212-28-B12-C	28	-	B 12	12	30	47	87	114	108	-	23	275
GN 212-32-B16-C	32	-	B 16	12	32	52	98	133	126	-	28	349
GN 212-36-B16-C	36	-	B 16	14	35	58	108	146	138	-	28	500
GN 212-40-B20-C	40	-	B 20	16	40	64	120	162.5	154	-	30	724
GN 212-22-M10-D	22	M 10	-	8	20	37	40.5	96	85	15	-	131
GN 212-25-M12-D	25	M 12	-	10	25	42	47	107.5	95	18	-	203
GN 212-28-M12-D	28	M 12	-	12	30	47	53	122	108	18	-	296
GN 212-32-M16-D	32	M 16	-	12	32	52	59	142	126	23	-	385
GN 212-36-M16-D	36	M 16	-	14	35	58	64.5	156	138	24	-	503
GN 212-40-M20-D	40	M 20	-	16	40	64	72	174	154	27	-	261
GN 212-22-M10-E	22	M 10	-	8	20	37	67	89.5	85	15	-	118
GN 212-25-M12-E	25	M 12	-	10	25	42	76	100.5	95	18	-	182
GN 212-28-M12-E	28	M 12	-	12	30	47	87	114	108	18	-	274
GN 212-32-M16-E	32	M 16	-	12	32	52	98	133	126	23	-	352
GN 212-36-M16-E	36	M 16	-	14	35	58	108	146	138	24	-	525
GN 212-40-M20-E	40	M 20	-	16	40	64	120	162.5	154	27	-	709

GN 212-NI **STAINLESS STEEL**

Description	d1	d2	d4	d5	h1	h2 ≈	l1 ≈	l2	t1 min.	⚖
GN 212-22-M8-E-NI	22	M 8	8	20	37	67	89.5	85	18	121
GN 212-25-M10-E-NI	25	M 10	10	25	42	76	100.5	95	18	186
GN 212-28-M12-E-NI	28	M 12	12	30	47	87	114	108	20	272
GN 212-32-M16-E-NI	32	M 16	12	32	52	98	133	126	25	340

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Clamping levers

Steel / Stainless Steel

SPECIFICATION

Types

- Type **K***: Straight lever with plain bore H7 (only l_1 = 50 to 160)
- Type **M***: Straight lever with threaded bore H7 (only l_1 = 50 to 160)
- Type **L**: Angled lever with plain bore H7
- Type **N**: Angled lever with threaded bore

* only Steel version.

Version in Steel

- turned
- blackened

Version in Stainless Steel

Stainless Steel AISI 303 **NI**
matt shot-blasted

INFORMATION

The official DIN standard sheet specifies additional sizes 40 - M5 / B5.

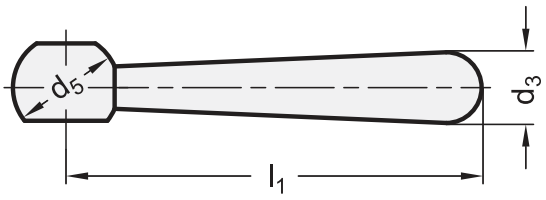
ON REQUEST

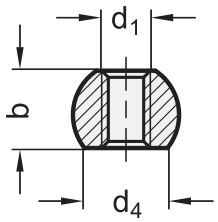
Stainless Steel-Lever handles with straight lever

TECHNICAL INFORMATION

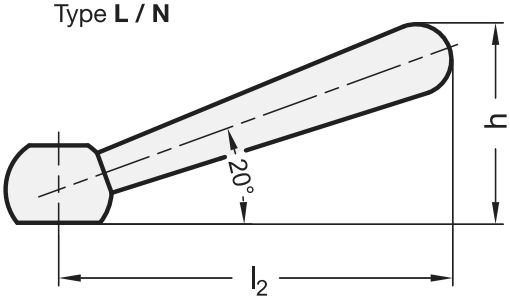
- ISO Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)

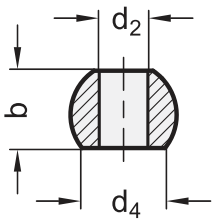
Type **K / M**





Type **L / N**





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DIN 99

Description	l1	d1	d2 H7	b	d3	d4 ≈	d5 -0.2	h ≈	l2 ≈	⚖
DIN 99-50-B6-K	50	-	B 6	9.5	8	7.5	12	-	-	17
DIN 99-63-B8-K	63	-	B 8	12	10	11	16	-	-	36
DIN 99-80-B10-K	80	-	B 10	14.5	13	15	20	-	-	74
DIN 99-100-B12-K	100	-	B 12	18.5	16	19	25	-	-	139
DIN 99-125-B16-K	125	-	B 16	24	20	23.5	32	-	-	283
DIN 99-160-B20-K	160	-	B 20	30	25	29.5	40	-	-	545
DIN 99-50-B6-L	-	-	B 6	9.5	8	7.5	12	24	48	17
DIN 99-63-B8-L	-	-	B 8	12	10	11	16	30	60	36
DIN 99-80-B10-L	-	-	B 10	14.5	13	15	20	38	76	74
DIN 99-100-B12-L	-	-	B 12	18.5	16	19	25	47	95	139
DIN 99-125-B16-L	-	-	B 16	24	20	23.5	32	59.5	119	283
DIN 99-160-B20-L	-	-	B 20	30	25	29.5	40	76	152	545
DIN 99-200-B24-L	-	-	B 24	40	32	33	50	97	190	1128
DIN 99-50-M6-M	50	M 6	-	9.5	8	7.5	12	-	-	17
DIN 99-63-M8-M	63	M 8	-	12	10	11	16	-	-	37
DIN 99-80-M10-M	80	M 10	-	14.5	13	15	20	-	-	73
DIN 99-100-M12-M	100	M 12	-	18.5	16	19	25	-	-	141
DIN 99-125-M16-M	125	M 16	-	24	20	23.5	32	-	-	287
DIN 99-160-M20-M	160	M 20	-	30	25	29.5	40	-	-	569
DIN 99-50-M6-N	-	M 6	-	9.5	8	7.5	12	24	48	17
DIN 99-63-M8-N	-	M 8	-	12	10	11	16	30	60	37
DIN 99-80-M10-N	-	M 10	-	14.5	13	15	20	38	76	73
DIN 99-100-M12-N	-	M 12	-	18.5	16	19	25	47	95	141
DIN 99-125-M16-N	-	M 16	-	24	20	23.5	32	59.5	119	280
DIN 99-160-M20-N	-	M 20	-	30	25	29.5	40	76	152	569
DIN 99-200-M24-N	-	M 24	-	40	32	33	50	97	190	1116

DIN 99-NI

STAINLESS STEEL

Description	l1	d1	d2 H7	b	d3	d4 ≈	d5 -0.2	h ≈	l2 ≈	⚖
DIN 99-63-B8-L-NI	63	-	B 8	12	10	11	16	30.5	60	36
DIN 99-80-B10-L-NI	80	-	B 10	14.5	13	15	20	38	76	77
DIN 99-100-B12-L-NI	100	-	B 12	18.5	16	19	25	47	95	139
DIN 99-50-M6-N-NI	50	M 6	-	9.5	8	7.5	12	24	48	17
DIN 99-63-M8-N-NI	63	M 8	-	12	10	11	16	30.5	60	37
DIN 99-80-M10-N-NI	80	M 10	-	14.5	13	15	20	38	76	73
DIN 99-100-M12-N-NI	100	M 12	-	18.5	16	19	25	47	95	130
DIN 99-125-M16-N-NI	125	M 16	-	24	20	23.5	32	59.5	119	287

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GN 99.2

Clamping levers

PUSH to disengage

SPECIFICATION

Types

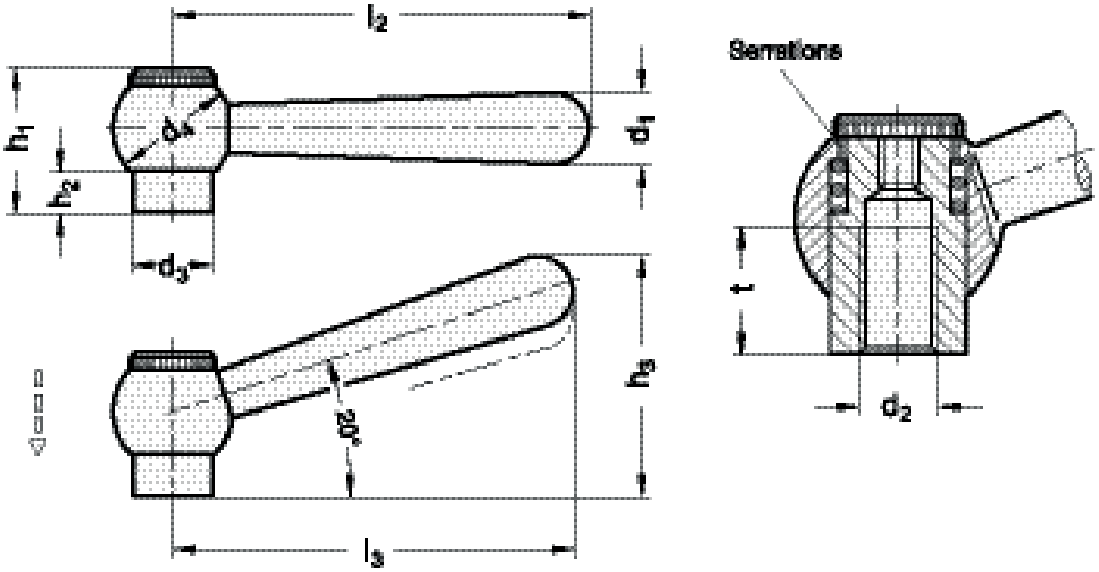
- Type **M**: Straight lever
- Type **N**: Angled lever

Steel
blackened

Version with threaded stud
Tensile strength class 5.8

INFORMATION

Clamping levers GN 99.2 are known for their small dimensions. They are for use in applications where either the clamping range is limited or where a specific lever position is required. The serrated bore in the spherical hub is fitted with a threaded bolt insert which engages in the hub with its own serrations.
By depressing the clamping lever the serrations are disengaged freeing it for re-positioning in the most convenient position. When releasing the lever the serrations will re-engage automatically.
Should a rotation of 360° not be possible the insert can be slightly screwed in (after the lever has been disengaged) by means of the slotted knurled screw.



GN 99.2-with threaded insert

Description	d1	d2	d3	d4	h1	h2	h3 ≈	l2	l3 ≈	t min.	⚖
GN 99.2-10-M6-M	10	M 6	13.5	20	25	8	-	63	-	12	61
GN 99.2-10-M8-M	10	M 8	13.5	20	25	8	-	63	-	12	59
GN 99.2-13-M8-M	13	M 8	16	25	29	8	-	80	-	15	122
GN 99.2-13-M10-M	13	M 10	16	25	29	8	-	80	-	15	118
GN 99.2-16-M10-M	16	M 10	19	28	33.5	10.5	-	100	-	18	192
GN 99.2-16-M12-M	16	M 12	19	28	33.5	10.5	-	100	-	18	195
GN 99.2-10-M6-N	10	M 6	13.5	20	25	8	39.5	-	60	12	61
GN 99.2-10-M8-N	10	M 8	13.5	20	25	8	39.5	-	60	12	59
GN 99.2-13-M8-N	13	M 8	16	25	29	8	49.5	-	76	15	122
GN 99.2-13-M10-N	13	M 10	16	25	29	8	49.5	-	76	15	118
GN 99.2-16-M10-N	16	M 10	19	28	33.5	10.5	60.5	-	95	18	200
GN 99.2-16-M12-N	16	M 12	19	28	33.5	10.5	60.5	-	95	18	192

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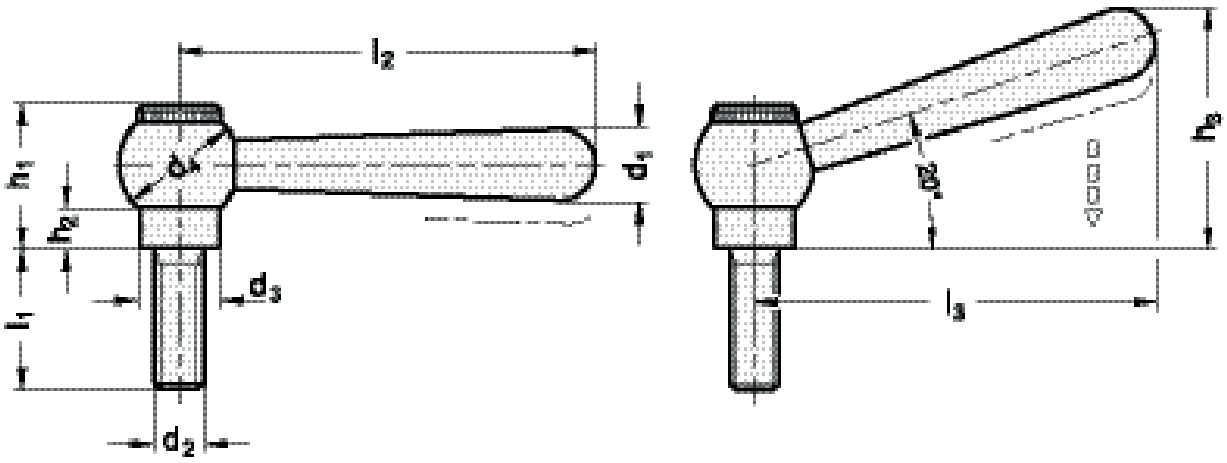

GN 99.2-with threaded stud

Description	d1	d2	l1	d3	d4	h1	h2	h3 ≈	l2	l3 ≈	⚖
GN 99.2-10-M8-20-M	10	M 8	20	13.5	20	25	8	-	63	-	69
GN 99.2-10-M8-25-M	10	M 8	25	13.5	20	25	8	-	63	-	71
GN 99.2-10-M8-32-M	10	M 8	32	13.5	20	25	8	-	63	-	73
GN 99.2-10-M8-40-M	10	M 8	40	13.5	20	25	8	-	63	-	75
GN 99.2-10-M8-50-M	10	M 8	50	13.5	20	25	8	-	63	-	81
GN 99.2-10-M8-63-M	10	M 8	63	13.5	20	25	8	-	63	-	85
GN 99.2-13-M10-20-M	13	M 10	20	16	25	29	8	-	80	-	130
GN 99.2-13-M10-25-M	13	M 10	25	16	25	29	8	-	80	-	130
GN 99.2-13-M10-32-M	13	M 10	32	16	25	29	8	-	80	-	143
GN 99.2-13-M10-40-M	13	M 10	40	16	25	29	8	-	80	-	147
GN 99.2-13-M10-50-M	13	M 10	50	16	25	29	8	-	80	-	153
GN 99.2-13-M10-63-M	13	M 10	63	16	25	29	8	-	80	-	159
GN 99.2-16-M12-25-M	16	M 12	25	19	28	33.5	10.5	-	100	-	220
GN 99.2-16-M12-32-M	16	M 12	32	19	28	33.5	10.5	-	100	-	226
GN 99.2-16-M12-40-M	16	M 12	40	19	28	33.5	10.5	-	100	-	232
GN 99.2-16-M12-50-M	16	M 12	50	19	28	33.5	10.5	-	100	-	238
GN 99.2-16-M12-63-M	16	M 12	63	19	28	33.5	10.5	-	100	-	247
GN 99.2-16-M12-80-M	16	M 12	80	19	28	33.5	10.5	-	100	-	250
GN 99.2-10-M8-20-N	10	M 8	20	13.5	20	25	8	39.5	-	60	65
GN 99.2-10-M8-25-N	10	M 8	25	13.5	20	25	8	39.5	-	60	71
GN 99.2-10-M8-32-N	10	M 8	32	13.5	20	25	8	39.5	-	60	73
GN 99.2-10-M8-40-N	10	M 8	40	13.5	20	25	8	39.5	-	60	75
GN 99.2-10-M8-50-N	10	M 8	50	13.5	20	25	8	39.5	-	60	81
GN 99.2-10-M8-63-N	10	M 8	63	13.5	20	25	8	39.5	-	60	85
GN 99.2-13-M10-20-N	13	M 10	20	16	25	29	8	49.5	-	76	137
GN 99.2-13-M10-25-N	13	M 10	25	16	25	29	8	49.5	-	76	139
GN 99.2-13-M10-32-N	13	M 10	32	16	25	29	8	49.5	-	76	140
GN 99.2-13-M10-40-N	13	M 10	40	16	25	29	8	49.5	-	76	147
GN 99.2-13-M10-50-N	13	M 10	50	16	25	29	8	49.5	-	76	153
GN 99.2-13-M10-63-N	13	M 10	63	16	25	29	8	49.5	-	76	159
GN 99.2-16-M12-25-N	16	M 12	25	19	28	33.5	10.5	60.5	-	95	220
GN 99.2-16-M12-32-N	16	M 12	32	19	28	33.5	10.5	60.5	-	95	226
GN 99.2-16-M12-40-N	16	M 12	40	19	28	33.5	10.5	60.5	-	95	232
GN 99.2-16-M12-50-N	16	M 12	50	19	28	33.5	10.5	60.5	-	95	238
GN 99.2-16-M12-63-N	16	M 12	63	19	28	33.5	10.5	60.5	-	95	247
GN 99.2-16-M12-80-N	16	M 12	80	19	28	33.5	10.5	60.5	-	95	250

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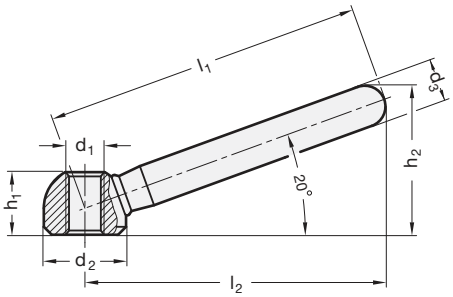
GN 99.5

Clamp nuts

SPECIFICATION

Steel
zinc plated, blue passivated

Shaft butt-welded to nut



GN 99.5

Description	l1	d1	d2	d3	h1	h2 ≈	l2 ≈	⚖
GN 99.5-63-M8	63	M 8	16	10	12.5	30.5	60	39
GN 99.5-80-M10	80	M 10	20	12	15	37	76	82
GN 99.5-100-M12	100	M 12	25	14	19	46	95	149
GN 99.5-125-M16	125	M 16	32	18	25	58.5	119	309
GN 99.5-160-M20	160	M 20	40	20	31	73	152	522

GN 99.6

Stainless Steel-Clamp nuts

SPECIFICATION

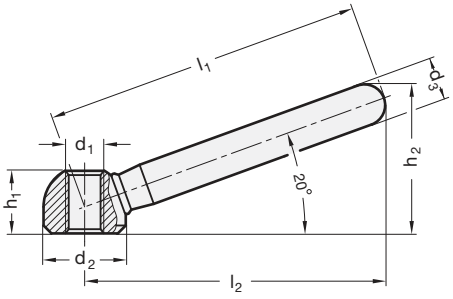
Stainless Steel

- AISI 304
- AISI 316L **A4**
- matt shot-blasted

Shaft butt-welded to nut

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)



GN 99.6 STAINLESS STEEL

Description	l1	d1	d2	d3	h1	h2 ≈	l2 ≈	⚖
GN 99.6-63-M8-A4	63	M 8	16	10	12.5	30.5	60	45
GN 99.6-80-M10-A4	80	M 10	20	12	15	37	76	75
GN 99.6-100-M12-A4	100	M 12	25	14	19	46	95	149
GN 99.6-63-M8	63	M 8	16	10	12.5	30.5	60	45
GN 99.6-80-M10	80	M 10	20	12	15	37	76	75
GN 99.6-100-M12	100	M 12	25	14	19	46	95	149
GN 99.6-125-M16	125	M 16	32	18	25	58.5	119	309
GN 99.6-160-M20	160	M 20	40	20	31	73	152	526

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GN 204

Short clamping levers

SPECIFICATION

Types

- Type **N**: Angled lever with threaded bore
- Type **L**: Angled lever with plain bore H7

Steel

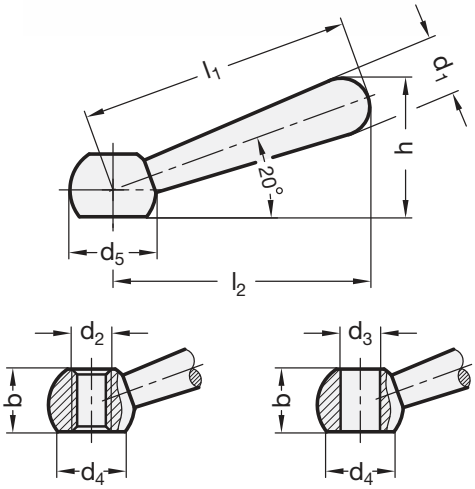
- turned
- blackened

ON REQUEST

- Short clamping levers with straight lever

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)



GN 204

Description	d1	d2	d3 H7	b	d4 ≈	d5	h ≈	l1	l2 ≈	⚖
GN 204-13-B10-L	13	-	B 10	14	16	20	32	63	60	61
GN 204-16-B12-L	16	-	B 12	17.5	20	25	40	80	76	180
GN 204-20-B16-L	20	-	B 16	23	25	32	51	100	95	220
GN 204-10-M8-N	10	M 8	-	11	12.5	16	26	50	48	30
GN 204-13-M10-N	13	M 10	-	14	16	20	32	63	60	60
GN 204-16-M12-N	16	M 12	-	17.5	20	25	40	80	76	120
GN 204-20-M16-N	20	M 16	-	23	25	32	51	100	95	232
GN 204-25-M20-N	25	M 20	-	30	31	40	63.5	125	119	445

GN 223

Control levers

Steel, blackened

SPECIFICATION

Steel
blackened

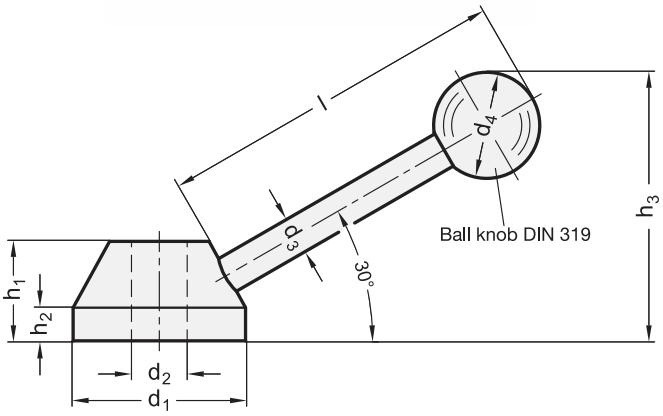
Ball knobs DIN 319 (see page 538)
Plastic, Duroplast
black, shiny finish

INFORMATION

Control levers GN 223 can also be supplied as standard with:
Square DIN 79 **V** + Bore-Ø
Keyway DIN 6885 **K** + Bore-Ø

TECHNICAL INFORMATION

- Keyway P9 DIN 6885 (see page A16)
- ISO-Fundamental Tolerances (see page A21)



GN 223

Description	d1	d2 H7	d3	d4	h1	h2	h3 ≈	l ≈	⚖
GN 223-25-B8	25	B 8	6	16	14	5	35	45	50
GN 223-32-B10	32	B 10	8	20	18	6.5	48	62	103
GN 223-40-B12	40	B 12	10	30	22	8.5	77	95	214
GN 223-52-B16	52	B 16	14	40	28	11	96	136	503

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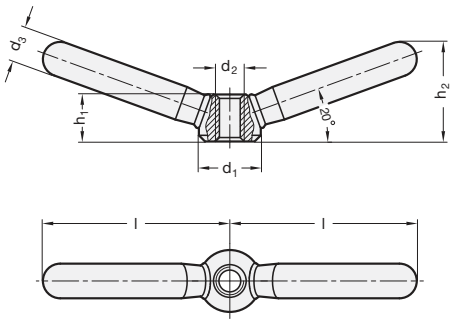
GN 99.7

Clamp nuts with double lever

SPECIFICATION

Steel
zinc plated, blue passivated

Shaft butt-welded to nut



GN 99.7

Description	d1	d2	d3	h1	h2 ≈	l ≈	⚖
GN 99.7-16-M8	16	M 8	10	12.5	26	47.5	55
GN 99.7-20-M10	20	M 10	12	15	32	59.5	110
GN 99.7-25-M12	25	M 12	14	19	40	75.5	210
GN 99.7-32-M16	32	M 16	18	25	52	94.5	432
GN 99.7-40-M20	40	M 20	20	31	62	118	716

GN 99.8

Stainless Steel-Clamp nuts with double lever

SPECIFICATION

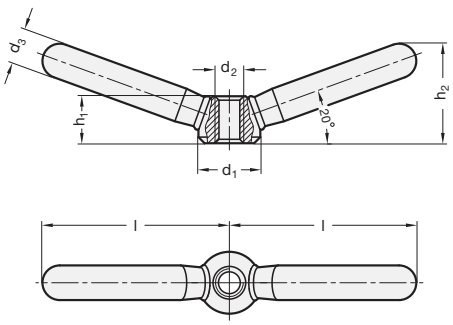
Stainless Steel

- AISI 304
- AISI 316L **A4**
- matt shot-blasted

Shaft butt-welded to nut

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)



GN 99.8 **STAINLESS STEEL**

Description	d1	d2	d3	h1	h2 ≈	l ≈	⚖
GN 99.8-16-M8-A4	16	M 8	10	12.5	26	47.5	50
GN 99.8-20-M10-A4	20	M 10	12	15	32	59.5	102
GN 99.8-25-M12-A4	25	M 12	14	19	40	75.5	213
GN 99.8-16-M8	16	M 8	10	12.5	26	47.5	50
GN 99.8-20-M10	20	M 10	12	15	32	59.5	102
GN 99.8-25-M12	25	M 12	14	19	40	75.5	211
GN 99.8-32-M16	32	M 16	18	25	52	94.5	435
GN 99.8-40-M20	40	M 20	20	31	62	118	710

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GN 206

Clamp nuts

Cast iron / Stainless Steel

SPECIFICATION

Version in malleable cast iron

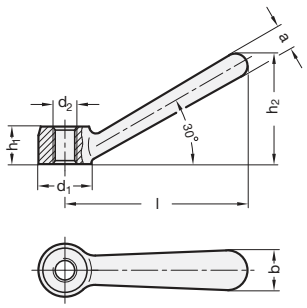
- fettled
- Contact face machined

Version in Stainless Steel precision casting AISI CF-8 NI

- fettled
- Contact face machined

TECHNCIAL INFORMATION

- Stainless Steel characteristics (see page A26)



GN 206

Description	d1	d2	a	b	h1	h2 ≈	l ≈	⚖
GN 206-16-M8	16	M 8	7	12	12	34	56	34
GN 206-20-M10	20	M 10	9	14	14	42.5	70	63
GN 206-25-M12	25	M 12	11	18	18	53	87	125
GN 206-32-M16	32	M 16	15	22	22	66.5	109	248
GN 206-40-M20	40	M 20	18	28	28	84.5	140	518

GN 206-NI — STAINLESS STEEL

Description	d1	d2	a	b	h1	h2 ≈	l ≈	⚖
GN 206-16-M8-NI	16	M 8	7	12	12	34	56	30
GN 206-20-M10-NI	20	M 10	9	14	14	42.5	70	62
GN 206-25-M12-NI	25	M 12	11	18	18	53	87	125
GN 206-32-M16-NI	32	M 16	15	22	22	66.5	109	248
GN 206-40-M20-NI	40	M 20	18	28	28	84.5	140	491

GN 206.1

Clamp nuts with double lever

Cast iron / Stainless Steel

SPECIFICATION

Version in malleable cast iron

- fettled
- Contact faces machined

Version in Stainless Steel NI

Stainless Steel-Precision casting

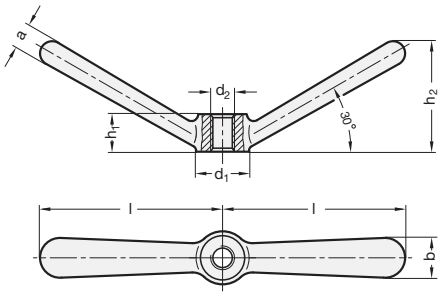
- AISI CF-8
- fettled
- Contact faces machined

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)

ON REQUEST

- Clamp nuts with double lever GN 206.1, plastic coated



GN 206.1

Description	d1	d2	a	b	h1	h2 ≈	l ≈	⚖
GN 206.1-16-M8	16	M 8	7	12	12	34	56	61
GN 206.1-20-M10	20	M 10	9	14	14	42.5	70	104
GN 206.1-25-M12	25	M 12	11	18	18	53	87	220
GN 206.1-32-M16	32	M 16	15	22	22	66.5	109	400
GN 206.1-40-M20	40	M 20	18	28	28	84.5	140	760

GN 206.1-NI — STAINLESS STEEL

Description	d1	d2	a	b	h1	h2 ≈	l ≈	⚖
GN 206.1-16-M8-NI	16	M 8	7	12	12	34	56	53
GN 206.1-20-M10-NI	20	M 10	9	14	14	42	70	98
GN 206.1-25-M12-NI	25	M 12	11	18	18	53	87	196
GN 206.1-32-M16-NI	32	M 16	15	22	22	66	109	396
GN 206.1-40-M20-NI	40	M 20	18	28	28	84	140	720

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GN 150

Split hubs

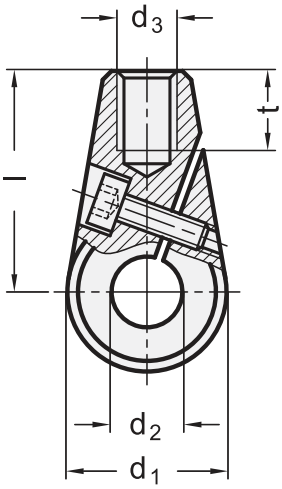
SPECIFICATION

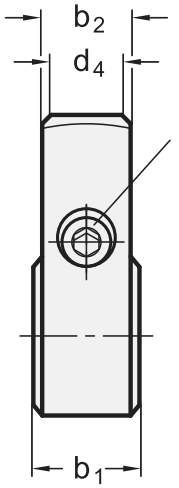
Sintered Steel
black oxidised with vapor

Cylinder head screw
Steel, black

INFORMATION

Split hubs GN 150 are distinguished by the method of simple clamping to any shaft.
This can be achieved without prior machining of the shaft, eliminating clamping parts and assembly work.
A further advantage is the positioning of the lever arm to any required position.
The shaft tolerance should be within h11; to transmit higher torques the hub can be supplied with a keyway.





GN 150

Description	d1	d2	b1 ±0.2	b2	d3	d4	l	t min.	⚖
GN 150-24-B10	24	B 10	15.5	13	M 8	10	36	11	64
GN 150-24-B12	24	B 12	15.5	13	M 8	10	36	11	64
GN 150-28-B12	28	B 12	17.5	15	M 10	12	41	14	100
GN 150-28-B14	28	B 14	17.5	15	M 10	12	41	14	94
GN 150-32-B14	32	B 14	19.5	17	M 12	14	45	16	140
GN 150-32-B16	32	B 16	19.5	17	M 12	14	45	16	137

GN 150.5

Stainless Steel-Split hubs

SPECIFICATION

Stainless Steel (Sintered Steel) AISI 316L

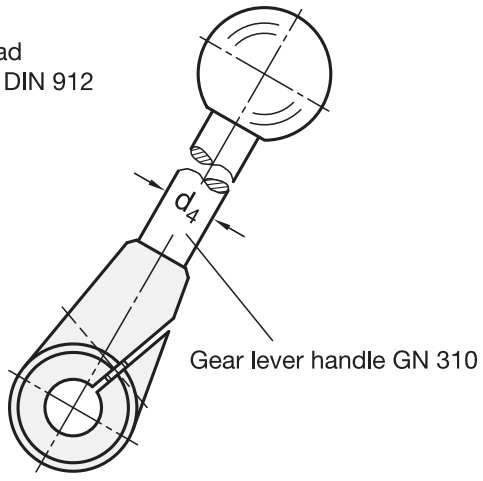
Cylinder head screw
Stainless Steel AISI 304

INFORMATION

Split hubs GN 150.5 are distinguished by the method of simple clamping to any shaft.
This can be achieved without prior machining of the shaft, eliminating clamping parts and assembly work.
A further advantage is the positioning of the lever arm to any required position.
The shaft tolerance should be within h1; to transmit higher torques the hub can be supplied with a keyway.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)



GN 150.5 STAINLESS STEEL

Description	d1	d2	b1 ±0.2	b2	d3	d4	l	t min.	⚖
GN 150.5-24-B10	24	B 10	15.5	13	M 8	10	36	11	64
GN 150.5-24-B12	24	B 12	15.5	13	M 8	10	36	11	61
GN 150.5-28-B12	28	B 12	17.5	15	M 10	12	41	14	94
GN 150.5-28-B14	28	B 14	17.5	15	M 10	12	41	14	90
GN 150.5-32-B14	32	B 14	19.5	17	M 12	14	45	16	140
GN 150.5-32-B16	32	B 16	19.5	17	M 12	14	45	16	132

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DIN 6304

Tommy screws

with fixed bar

SPECIFICATION

Types

- Type **E**: without thrust pad
- Type **F**: with thrust pad DIN 6311 (see page 938)

Steel
Tensile strength class 5.8

- blackened
- Thrust point hardened

INFORMATION

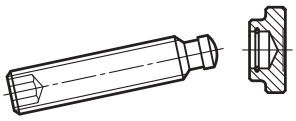
The thrust point of these screws DIN 6304 is designed to be used with or without a thrust pad for clamping.
The snap ring is a simple and quick method to connect the thrust pad to the tommy screw.
Instead of DIN 6311 (see page 938) a thrust pad GN 6311.1 (see page 939) can be used. In that case the tommy screw and the thrust pad have to be ordered separately .

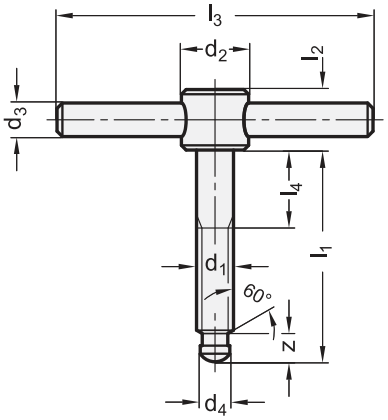
TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)

HINT FOR INSTALLATION (TYPE F)

The thrust pad has to be held at an angle allowing the circlip to drop to the bottom of its groove with the split end downwards. The thrust point is then offered up tp the spit end of the circlip at the lowest possible angle and pressed home.





*Complete with type of the Tommy screws (E or F)

E without thrust pad **F** with thrust pad

DIN 6304

Description	d1	l1	d2	d3	d4 h11	l2	l3	l4	l5 ≈	z ≈	⚖
DIN 6304-M6-40-*	M 6	40	12	5	4.5	10	50	10	2.2	5.4	26
DIN 6304-M6-50-*	M 6	50	12	5	4.5	10	50	10	2.2	5.4	27
DIN 6304-M8-50-*	M 8	50	14	6	6	12	60	15	3	6.8	49
DIN 6304-M8-60-*	M 8	60	14	6	6	12	60	15	3	6.8	52
DIN 6304-M10-60-*	M 10	60	18	8	8	14	80	20	3.6	8.2	100
DIN 6304-M10-70-*	M 10	70	18	8	8	14	80	20	3.6	8.2	105
DIN 6304-M12-70-*	M 12	70	20	10	8	18	100	20	4.5	8.6	171
DIN 6304-M12-80-*	M 12	80	20	10	8	18	100	20	4.5	8.6	179
DIN 6304-M16-75-*	M 16	75	24	12	12	20	120	20	5.3	10.6	260
DIN 6304-M16-90-*	M 16	90	24	12	12	20	120	20	5.3	10.6	324
DIN 6304-M16-110-*	M 16	110	24	12	12	20	120	20	5.3	10.6	354
DIN 6304-M20-75-*	M 20	75	30	16	15.5	28	140	20	5.6	12.4	475
DIN 6304-M20-90-*	M 20	90	30	16	15.5	28	140	20	5.6	12.4	602
DIN 6304-M20-110-*	M 20	110	30	16	15.5	28	140	20	5.6	12.4	644

Weight type F

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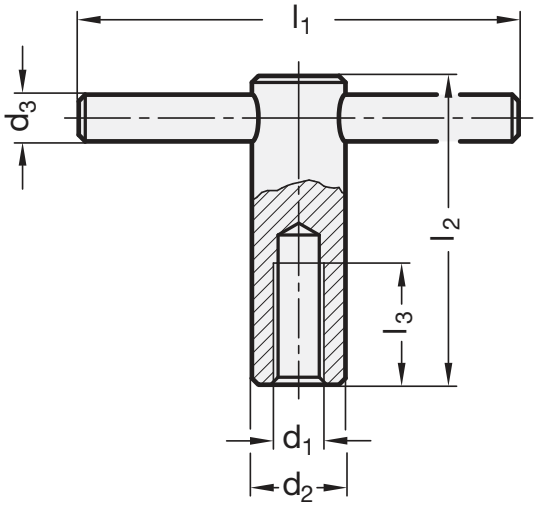
Tommy nuts

with fixed bar

SPECIFICATION

Steel
Tensile strength class 5
blackened



DIN 6305

Description	d1	d2	d3	l1	l2	l3 min.	⚖
DIN 6305-M10	M 10	18	8	80	60	20	129
DIN 6305-M12	M 12	20	10	100	70	25	194
DIN 6305-M16	M 16	24	12	120	85	35	322
DIN 6305-M20	M 20	30	16	140	95	40	589

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DIN 6306

Tommy screws

with movable bar

SPECIFICATION

Types

- Type **D**: without thrust pad
- Type **E**: with thrust pad DIN 6311 (see page 938)

Steel
Tensile strength class 5.8

- blackened
- Thrust point hardened

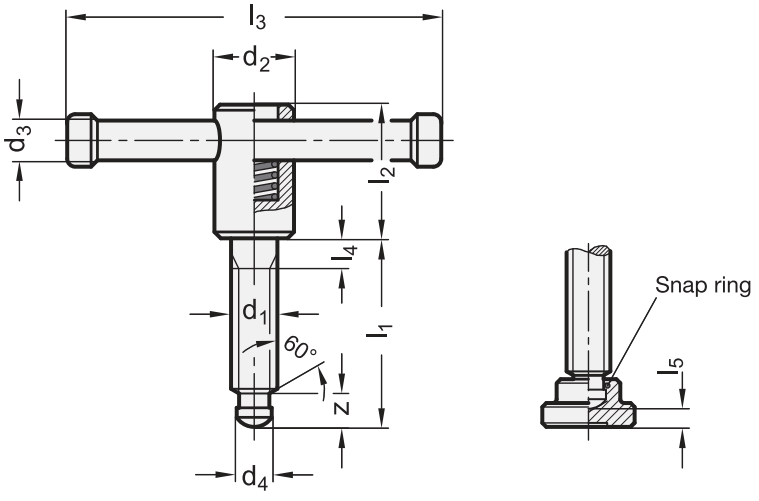
Bar end caps
Plastic, grey

INFORMATION

The thrust point of these screws DIN 6306 is designed to be used with or without the thrust pad for clamping.
The snap ring is a simple and quick method to connect the thrust pad to the tommy screw.
Instead of DIN 6311 (see page 938) a thrust pad GN 6311.1 (see page 939) can be used. In that case the tommy screw and the thrust pad have to be ordered separately.
The movable bar of the tommy screw DIN 6306 is held in any position by the pressure spring.
The end caps are pressed on to the bar and thus limit the bar travel, they can also be supplied separately should the bar be plated first.
The official DIN standard sheets provides for steel rings at this point.

TECHNCIAL INFORMATION

- Thrust pads DIN 6311 (see page 938)
- ISO-Fundamental Tolerances (see page A21)



*Complete with type of the Tommy screws (D or E)

D	E
without thrust pad	with thrust pad

DIN 6306

Description	d1	l1	d2	d3	d4 H11	l2	l3	l4	l5 ≈	z ≈	⚖
DIN 6306-M10-40-*	M 10	40	18	8	8	32	80	10	3.6	8.2	103
DIN 6306-M10-50-*	M 10	50	18	8	8	32	80	10	3.6	8.2	109
DIN 6306-M12-50-*	M 12	50	20	10	8	35	100	10	4.5	8.6	177
DIN 6306-M12-60-*	M 12	60	20	10	8	35	100	10	4.5	8.6	184
DIN 6306-M16-55-*	M 16	55	24	13	12	40	120	10	5.3	10.6	346
DIN 6306-M16-70-*	M 16	70	24	13	12	40	120	10	5.3	10.6	367
DIN 6306-M16-90-*	M 16	90	24	13	12	40	120	10	5.3	10.6	359
DIN 6306-M20-55-*	M 20	55	30	16	15.5	45	140	10	5.6	12.4	607
DIN 6306-M20-70-*	M 20	70	30	16	15.5	45	140	10	5.6	12.4	637
DIN 6306-M20-90-*	M 20	90	30	16	15.5	45	140	10	5.6	12.4	657

Weight type E

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Tommy nuts

with moveable bar

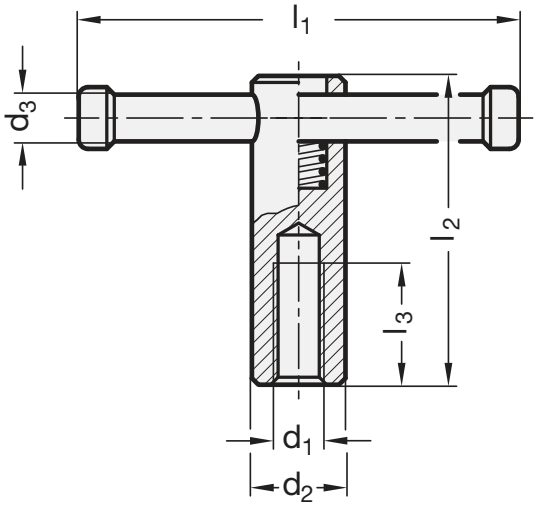
SPECIFICATION

Steel
Tensile strength class 5
blackened

Bar end caps
Plastic, grey

INFORMATION

The movable bar of the tommy nut DIN 6307 is held in any position by the pressure spring.
The plastic end caps limit the travel distance. They are pressed on with form-lock and may be supplied separately if the parts are to be electro-plated. The official DIN standard sheets provides for steel rings at this point.



DIN 6307

Description	d1	d2	d3	l1	l2	l3 min.	⚖
DIN 6307-M10	M 10	18	8	80	60	20	110
DIN 6307-M12	M 12	20	10	100	70	25	173
DIN 6307-M16	M 16	24	13	120	85	35	320
DIN 6307-M20	M 20	30	16	140	95	40	568

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GN 6305.1

Quick release toogle nuts

SPECIFICATION

Steel
zinc plated, blue passivated

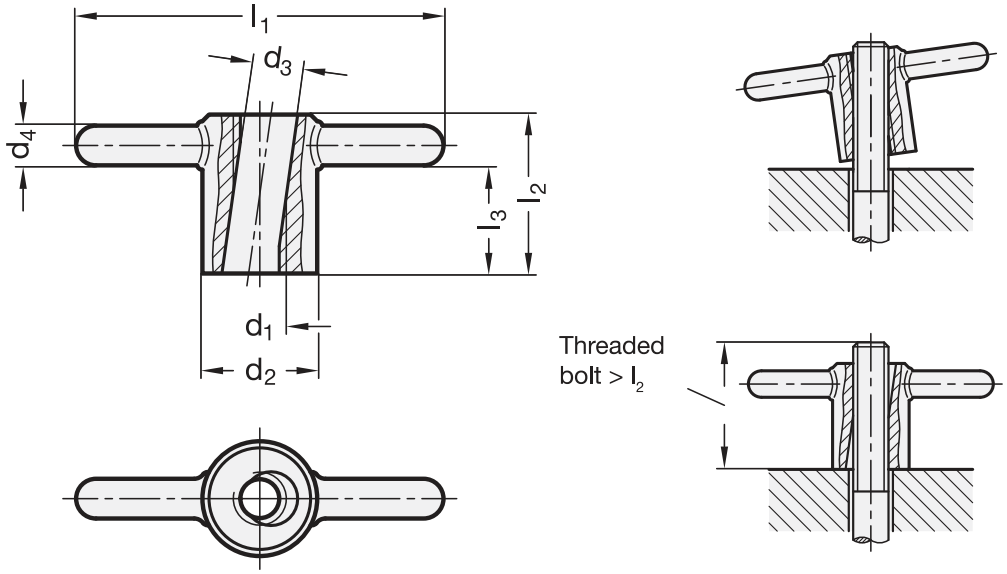
Butt-welded-toogle

INFORMATION

Quick release toggle nuts GN 6305.1 are used in such applications where the knob has to be completely removed after the releasing operation and refitted rapidly for re-clamping.
Plug the toggle nut onto the threaded bolt at an oblique angle. During the clamping action, it engages into the threads of the bolt.

ON REQUEST

- in Stainless Steel



GN 6305.1

Description	d1	d2	d3	d4	l1 ≈	l2	l3 ≈	⚖
GN 6305.1-M10-ST	M 10	24	10.5	8	68	30	20	100
GN 6305.1-M12-ST	M 12	26	13	9	82	36	24.5	138
GN 6305.1-M16-ST	M 16	32	17	10	98	45	32	240

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DESIGNED
FOR ENGINEERING

8 Indexing elements

Indexing plungers

Lock pins

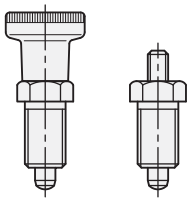
Spring plungers

Cam action indexing plungers

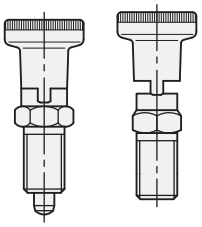
Indexing plungers - Types

Unlocking by pulling the plunger pin

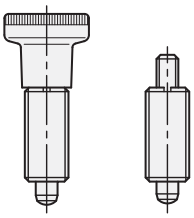
GN 617
GN 617 ... NI
see page 744
without rest position
Ø 5/6/8/10



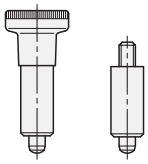
GN 617.1
GN 617.1 ... NI
see page 746
with rest position
Ø 5/6/8/10



GN 613
GN 613 ... NI
see page 748
without rest position
Ø 5/6/8/10

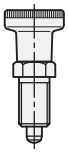


GN 618
see page 760
without rest position
without thread
weldable steel
Ø 5/6/8

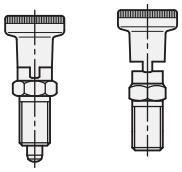


Other features:
- Guide steel, blackened or Stainless Steel
- GN 617 / GN 613 / GN 618 with or without knob
- Stainles Steel version with plastic or Stainless Steel knob
- Sturdy plunger pin: no change in Ø over the entire length
- Plunger pin, steel hardened
- High precision plunger pin guide

PMT.100
see page 750
without rest position
SUPER-Technopolymer
Ø 5 / 6 / 8 / 10

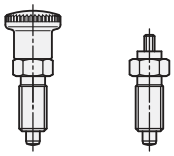


PMT.101
see page 752
with rest position
SUPER-Technopolymer
Ø 5 / 6 / 8 / 10

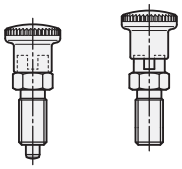


Other features:
- SUPER-technopolymer threaded body Lightness and high mechanical strength
- Steel (hardened) or Stainless Steel plunger pin
- Anticorrosive material: suitable even in the presence of liquid or humidity
- Low friction factor to the plunger stroke; no lubricating maintenance is required
- Resistant to several cleaning cycles with solvents and other chemical agents

GN 817
GN 817 ... NI
see page 754
Type B / G
without rest position
Ø 4/5/6/8/
10/12/16

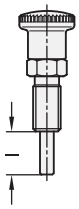


GN 817
GN 817 ... NI
see page 754
Type C
with rest position
Ø 4/5/6/8/
10/12/16

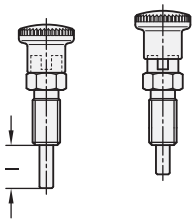


Other features:
- Guide steel, blackened or Stainless Steel
- Type G without knob, Type B/C with black or red knob
- 2 strokes/plunger pin Ø 4/5/6/8
- Plunger pin, steel hardened
- High precision plunger pin guide
- Locking mechanism integrated in the knob
- reduced dimensions

GN 817.8
GN 817.8 ... NI
see page 756
Type B
without rest position
Ø 4/5/6/8/
10/12/16



GN 817.8
GN 817.8 ... NI
see page 756
Type C
with rest position
Ø 4/5/6/8/
10/12/16



Other features:
- Designed for plunger pins in special design for small pieces
- All individual parts are delivered as an unassembled set so that the plunger pins can be modified.
- Guide steel, blackened or Stainless Steel
- Plunger pin Stainless Steel
- High precision plunger pin guide
- Locking mechanism integrated in the knob
- reduced dimensions

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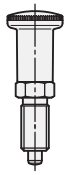
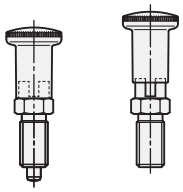
Indexing plungers - Types

Unlocking by pulling the plunger pin

GN 817.2
GN 817.2 ... NI
see page 758
Type B
without rest position
with long
operating knob
Ø 4/5/6/8/10/12



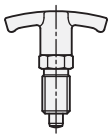
GN 817.2
GN 817.2 ... NI
see page 758
Type C
with rest position
with long
operating knob
Ø 4/5/6/8/10/12



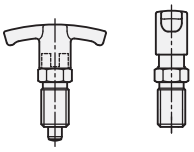
Other features:

- Guide steel, blackened or Stainless Steel
- 2 strokes/Plunger pin-Ø 4/5/6/8
- Plunger pin, steel hardened
- High precision plunger pin guide
- Locking mechanism integrated in the knob
- reduced dimensions

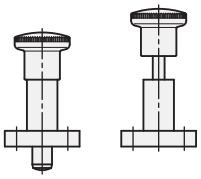
GN 817.4
GN 817.4 ... NI
see page 761
Type B
without rest position
with T-handle
Ø 6/8/10/12



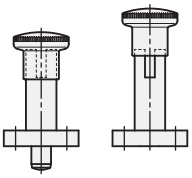
GN 817.4
GN 817.4 ... NI
see page 761
Type C
with rest position
with T-handle
Ø 6/8/10/12



GN 817.1
see page 762
Type B
without rest position
Ø 6/8/10



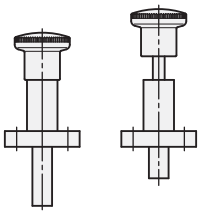
GN 817.1
see page 762
Type C
with rest position
Ø 6/8/10



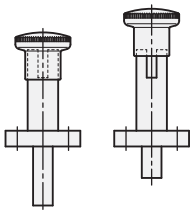
Other features:

- Guide Zinc die casting, black plastic coated
- Plunger pin Stainless Steel
- with black or red knob
- Locking mechanism integrated in the knob

GN 817.9
see page 763
Type B
without rest position
Ø 7 /8/10
Length: 20/25/30



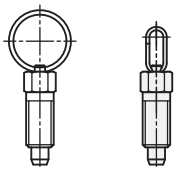
GN 817.9
see page 763
Type C
with rest position
Ø 7 /8/10
Length: 20/25/30



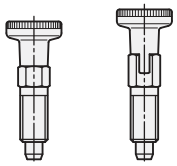
Other features:

- Designed for plunger pins in special design for small pieces
- All individual parts are delivered as an unassembled set so that the plunger pins can be modified.
- Guide zinc die casting, black plastic coated
- Plunger pin Stainless Steel
- Locking mechanism integrated in the knob

GN 717 ... ST
GN 717 ... NI
see page 764
Type A / D
without rest position
Ø 3/4/5/6/8/10



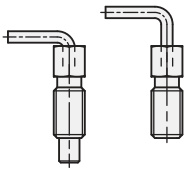
GN 717 ... ST
GN 717 ... NI
see page 764
Type B
without rest position
Type C
with rest position
Ø 3/4/5/6/8/10



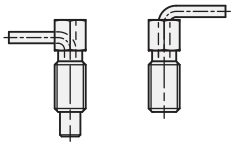
Other features:

- Guide steel, zinc plated or Stainless Steel
- Type A: with lifting ring
- Type D: with wire loop
- Standard or fine thread
- Reduced dimensions
- Reasonably priced versions

GN 7017 ... ST
GN 7017 ... NI
see page 767
Type B / BK
without rest position
Ø 4/5/6/8/10



GN 7017 ... ST
GN 7017 ... NI
see page 767
Type C / CK
with rest position
Ø 4/5/6/8/10



Other features:

- Guide steel, zinc plated or Stainless Steel
- with lever
- Reduced dimensions
- Reasonably priced versions

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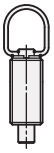
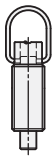
Indexing plungers - Types

Unlocking by pulling the plunger pin

GN 413 ... ST
GN 413 ... NI
see page 768
Type A
without rest position
Ø 5/6/8/10

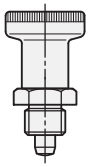


GN 413 ... ST
GN 413 ... NI
see page 768
Type C
with rest position
Ø 5/6/8/10

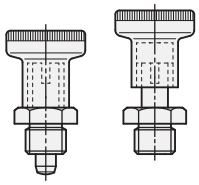


Other features:
- Guide steel, blackened or Stainless Steel
- Standard or fine thread
- Plunger pin Stainless Steel
- Reduced dimensions

GN 607 ... ST
GN 607 ... NI
see page 769
without rest position
Ø 6/8

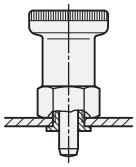


GN 607.1 ... ST
GN 607.1 ... NI
see page 769
with rest position
Ø 6/8

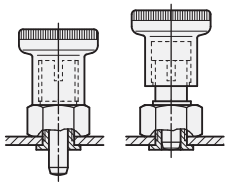


Other features:
- Guide steel, blackened or Stainless Steel
- Plunger pin, steel hardened
- High precision plunger pin guide
- Locking mechanism integrated in the knob

GN 607.2 ... ST
GN 607.2 ... NI
see page 771
without rest position
Ø 6/8

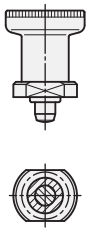


GN 607.3 ... ST
GN 607.3 ... NI
see page 772
with rest position
Ø 6/8

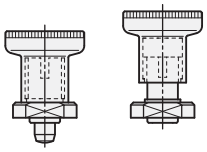


Other features:
- Designed for use in thin walled sheet metal parts
- Guide steel, zinc plated
- Plunger pin Stainless Steel
- Locking mechanism integrated in the knob

GN 607.4 ... ST
see page 773
without rest position
Ø 6/8

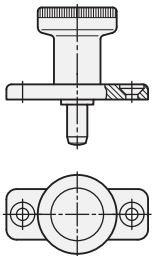


GN 607.5 ... ST
see page 774
with rest position
Ø 6/8

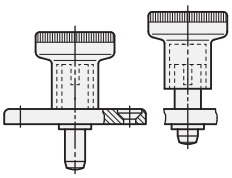


Other features:
- Plunger for welding
- Guide steel, blackened
- Plunger pin steel, hardened
- Locking mechanism integrated in the knob

GN 608
GN 608.5
see page 776
without rest position
Ø 6/8

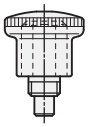


GN 608.1
GN 608.6
see page 778
with rest position
Ø 6/8

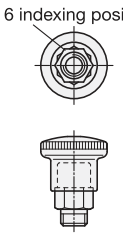


Other features:
- Guide zinc die casting, zinc plated
- GN 608/GN 608.1: Plunger pin steel, hardened
- GN 608.5/GN 608.6: Plunger pin Stainless Steel
- Locking mechanism integrated in the knob

GN 822 ... ST
GN 822 ... NI
see page 780
Type B
without rest position
Ø 4/5/6/7



GN 822 ... ST
GN 822 ... NI
see page 780
Type C
with rest position
Ø 4/5/6/7



Other features:
- Smallest dimensions (indexing plungers)
- Thread without recessed stud for fastening to thin walls (sheets)
- Guide steel, zinc plated or Stainless Steel
- Plunger pin Stainless Steel
- Knob plastic
- Covered indexing mechanism

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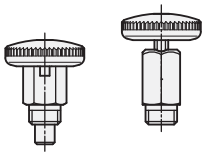
Indexing plungers - Types

Unlocking by pulling the plunger pin

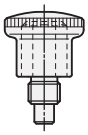
GN 822.1 ... ST
GN 822.1 ... NI
see page 782
Type B
without rest position
with low knob
Ø 4/5/6/7

GN 822.1 ... ST
GN 822.1 ... NI
see page 782
Type C
with rest position
with low knob
Ø 4/5/6/7



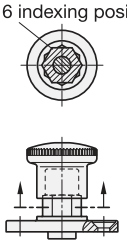
Other features:
- Smallest dimensions (indexing plungers)
- Thread without recessed stud for fastening to thin walls (sheets)
- Guide steel, zinc plated or Stainless Steel
- Plunger pin Stainless Steel
- Knob plastic
- open indexing mechanism

GN 822.6
GN 822.7
see page 775
Type B / BN
without rest position
Ø 4/5/6/7/8/10



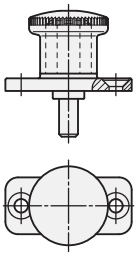
GN 822.6
GN 822.7
see page 775
Type C / CN
with rest position
Ø 4/5/6/7/8/10

6 indexing positions



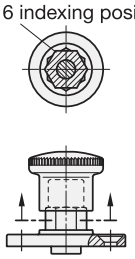
Other features:
- Smallest dimensions (indexing plungers)
- Guide steel, zinc plated or Stainless Steel
- Stainless Steel version with plastic or Stainless Steel knob
- Plunger pin Stainless Steel
- Standard or fine thread

GN 822.8
GN 822.9
see page 786
Type B / BN
without rest position
Ø 4/5/6/ 8/10



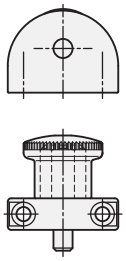
GN 822.8
GN 822.9
see page 786
Type C /CN
with rest position
Ø 4/5/6/ 8/10

6 indexing positions



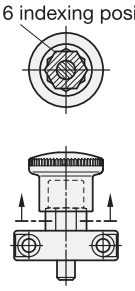
Other features:
- Reduced dimensions
- Guide zinc die casting, black plastic coated or Stainless Steel (GN 822.9)
- Plunger pin Stainless Steel
- Stainless Steel version (GN 822.9 with plastic or Stainless Steel knob)

GN 412
see page 789
Type B
without rest position
Ø 5/6 /8 /10



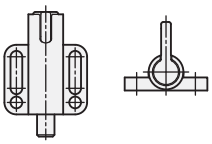
GN 412
see page 789
Type C
with rest position
Ø 5/6/8/10

6 indexing positions

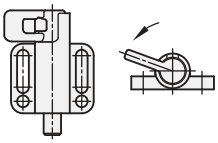


Other features:
- Short length
- Mounting from the front or rear (female thread)
- Guide zinc die casting, black plastic coated
- Plunger pin Stainless Steel
- Mounting blocks GN 412.1

GN 416
see page 790
Type S
without locking
in normal position
without rest position
Ø 6 / 8 / 10 / 12



GN 416
see page 790
Type L1 / R1
with locking
in normal position
with rest position
Ø 6/8/10/12



Other features:
- Guide zinc die casting, black plastic coated
- Plunger pin steel, zinc plated
- Latch lever plastic
- Operation beyond the plunger axis
- Assembly sets for profile systems
- Type L1/R1: Locking via clockwise or counterclockwise rotation of the latch lever
- Locators GN 416.1

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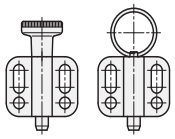
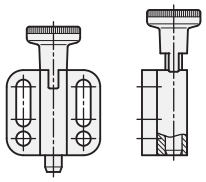
Indexing plungers - Types

Unlocking by pulling the plunger pin

GN 417
see page 792
Type A / B
without rest position
Ø 4/5/6/8/10

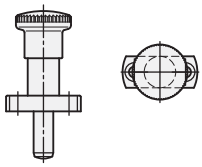


GN 417
see page 792
Type C
with rest position
Ø 4/5/6/8/10

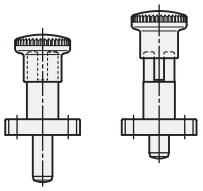


Other features:
- Indexing plungers for welding
- Guide steel, blackened
- Plunger pin steel, hardened
- Locking mechanism integrated in the knob

GN 817.3
see page 795
Type B
without rest position
Plunger pin
cylindrical
Ø 6/8/10

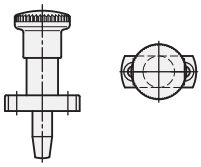


GN 817.3
see page 795
Type C
with rest position
Plunger pin
cylindrical
Ø 6/8/10

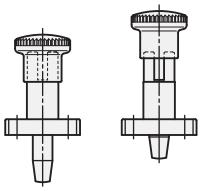


Other features:
- Designed for precision positioning by using positioning bushings
- Guide steel, blackened
- Plunger pin hardened
- Locking mechanism integrated in the knob
- reduced dimensions

GN 817.5
see page 796
Type B
without rest position
Plunger pin conical
Ø 6/8/10

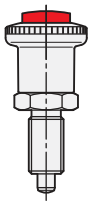


GN 817.5
see page 796
Type C
with rest position
Plunger pin conical
Ø 6/8/10



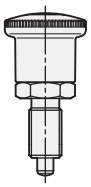
Other features:
- Designed for precision positioning by using positioning bushings
- Guide steel, blackened
- Plunger pin hardened
- Locking mechanism integrated in the knob
- reduced dimensions

GN 414
GN 414 ... NI
see page 797
with safety lock
Ø 6/8/10



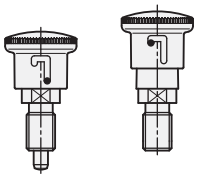
Other features:
- The latching is done automatically in case of a protruding plunger pin and the unlocking using the push-button
- Guide steel, blackened or Stainless Steel
- Plunger pin, steel hardened
- Knob black, push-button red

GN 414.1
GN 414.1 ... NI
see page 802
with rest position
Ø 6/8/10

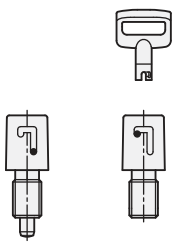


Other features:
- The rest position is achieved automatically in case of a retracted plunger pin and the unlocking using the push-button
- Guide steel, blackened or Stainless Steel
- Plunger pin, steel hardened
- Knob black, push-button red

GN 816
see page 798
Type A
Plunger pin
in normal position
protruded
with rest position
Operation with knob
Ø 6/8/10



GN 816
see page 798
Type B
Plunger pin in normal
position protruded
with rest position
Operation with key
Ø 6/8/10



Other features:
- Rest position secured against unintended release
- Guide steel, zinc plated
- Plunger pin Stainless Steel AISI 303
- Type B: Operation possible only with special key GN 816-10 (safety function)

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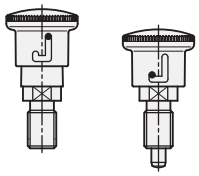
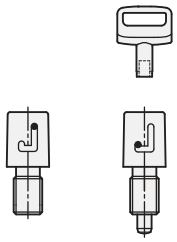
Indexing plungers - Types

Unlocking by pulling the plunger pin

GN 816.1
see page 800
Type A
Plunger pin
in normal position
retratcted
with locking
Operation with knob
Ø 6/8/10

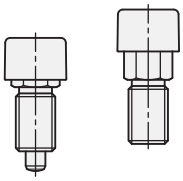


GN 816.1
see page 800
Type B
Plunger pin
in normal position
retratcted
with locking
Operation with key
Ø 6/8/10



Other features:
- Latch secured against unintended release
- Guide steel, zinc plated
- Plunger pin Stainless Steel AISI 303
- Type B: Operation possible only with special key GN 816.1-10 (safety function)

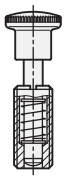
GN 514
see page 803
with PUSH-PUSH
mechanism
Ø 6/8



Other features:
- The plunger pin is moved over a so-called 'heart-curve'. This causes the plunger pin to be extended as well as retracted only by pressing the actuation buttons.
- Guide steel, blackened
- Knob plastic

GN 313 ... ST
GN 313 ... NI
see page 804
Plunger pin
in normal position
retratcted
Type A: with knob
Ø 5/6/8/10

INOX STAINLESS STEEL

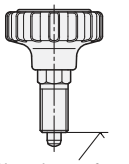


GN 313 ... ST
GN 313 ... NI
see page 804
Plunger pin
in normal position
retratcted
Type D: without knob
Ø 5/6/8/10

INOX STAINLESS STEEL

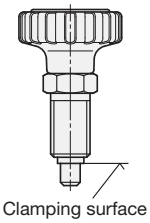
Other features:
- In the normal position (non-actuated), the bolt is not protruding, i.e. it remains retracted by a thrust spring
- Guide steel, blackened or Stainless Steel
- Plunger pin Stainless Steel

GN 7336.7
see page 806
Clamping knobs
with plunger pin
Ø 5/6/8



Other features:
- Knurled screw with "integrated" spring plunger pin. Thus, elements to be adjusted can be positioned and clamped simultaneously
- Guide steel, blackened
- Plunger pin Stainless Steel
- Knurled knob plastic

GN 7336.8
see page 807
Clamping
indexing plungers
Ø 6/8

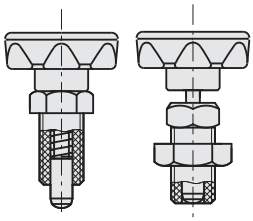


Other features:
- Application like GN 7336.7 with additional safety function. Knurled screw does not help in clamping, but in positioning. The clamping is done using a plunger pin that is connected to an anti-twist knurled knob.

After releasing the clamping, the plunger pin cannot be retracted (safety feature!), but only after some rotations of the knurled knob
- Guide steel, zinc plated
- Plunger pin steel, nitrided
- Knurled knob plastic

PMT.110
see page 808
Indexing plunger
with knob
Ø 8/10

INOX STAINLESS STEEL | SUGRA TECHNO POLYMER



Other features:
- SUPER-technopolymer threaded body. Lightness and high mechanical strength
- Steel (hardened) or Stainless Steel plunger pin
- Anticorrosive material: suitable even in the presence of liquid or humidity
- Low friction factor to the plunger stroke; no lubricating maintenance is required
- Resistant to several cleaning cycles with solvents and other chemical agents

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Indexing plungers

Steel / Stainless Steel without rest position

SPECIFICATION

Types

- Type **A**: with Plastic Knob, without lock nut
- Type **AK**: with Plastic-Knob, with lock nut
- Type **AN**: with Stainless Steel-Knob, without lock nut
- Type **AKN**: with Stainless Steel-Knob, with lock nut
- Type **G**: with threaded rod, without lock nut
- Type **GK**: with threaded rod, with lock nut

Version in Steel

- blackened
- Pin hardened

Version in Stainless Steel AISI 303 NI

Pin chemically nickel plated

Knob Type A / AK

- Plastic (Polyamide PA)
- black, matt
- not removable

Knob Type AN / AKN

- Stainless Steel AISI 303
- not removable

INFORMATION

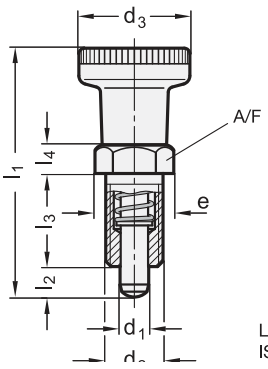
Type G or GK of the GN 617 indexing plungers have been designed for applications where the indexing plunger is not operated with the standard knob.
The indexing plungers are designed such that the plunger set in the end position (spring is "on block") can also absorb axial forces. For applications in which these forces are substantially above the tensile force applied by the operator (Type G), GN 817 (see page 754) indexing plungers are to be preferred.

- Range of indexing plungers (see page 738)

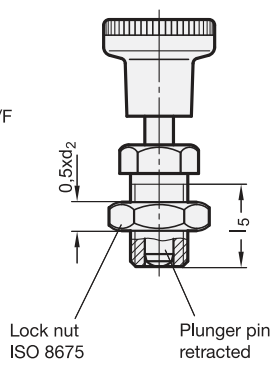
TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)

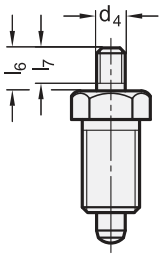
Type **A**



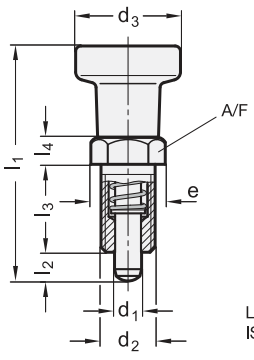
Type **AK**



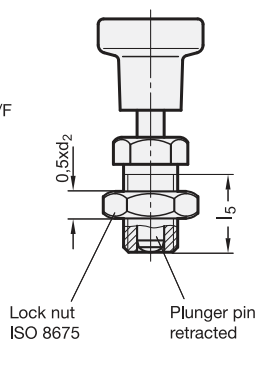
Type **G**



Type **AN**



Type **AKN**



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GN 617 (Steel with Plastic knob)

Description	d1 Pin -0.02/-0.05 Bore H7	d2	d3	d4	e	l1 ≈	l2 min.	l3	l4	l5	l6 min.	l7	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 617-5-A	5	M 10 x 1	21	-	13.8	45	5	17	5	15	-	-	12	7	17	19
GN 617-6-A	6	M 12 x 1.5	25	-	16.2	54.5	6	20	6	17	-	-	14	9	24	31
GN 617-8-A	8	M 16 x 1.5	31	-	21.9	69	8	26	8	23	-	-	19	11	30	70
GN 617-10-A	10	M 20 x 1.5	31	-	25.4	80	10	33	10	30	-	-	22	19	45	110
GN 617-5-AK	5	M 10 x 1	21	-	13.8	45	5	17	5	15	-	-	12	7	17	24
GN 617-6-AK	6	M 12 x 1.5	25	-	16.2	54.5	6	20	6	17	-	-	14	9	24	38
GN 617-8-AK	8	M 16 x 1.5	31	-	21.9	69	8	26	8	23	-	-	19	11	30	89
GN 617-10-AK	10	M 20 x 1.5	31	-	25.4	80	10	33	10	30	-	-	22	19	45	143
GN 617-5-G	5	M 10 x 1	-	M 5	13.8	-	5	17	5	15	6	4.5	12	7	17	14
GN 617-6-G	6	M 12 x 1.5	-	M 6	16.2	-	6	20	6	17	10	8	14	9	24	23
GN 617-8-G	8	M 16 x 1.5	-	M 8	21.9	-	8	26	8	23	12	10	19	11	30	54
GN 617-10-G	10	M 20 x 1.5	-	M 8	25.4	-	10	33	10	30	12	12	22	19	45	98
GN 617-5-GK	5	M 10 x 1	-	M 5	13.8	-	5	17	5	15	6	4.5	12	7	17	22
GN 617-6-GK	6	M 12 x 1.5	-	M 6	16.2	-	6	20	6	17	10	8	14	9	24	35
GN 617-8-GK	8	M 16 x 1.5	-	M 8	21.9	-	8	26	8	23	12	10	19	11	30	72
GN 617-10-GK	10	M 20 x 1.5	-	M 8	25.4	-	10	33	10	30	12	12	22	19	45	130

GN 617-NI (Stainless Steel with Plastic knob)

STAINLESS STEEL

Description	d1 Pin -0.02/-0.05 Bore H7	d2	d3	d4	e	l1 ≈	l2 min.	l3	l4	l5	l6 min.	l7	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 617-5-A-NI	5	M 10 x 1	21	-	13.8	45	5	17	5	15	-	-	12	6	15	19
GN 617-6-A-NI	6	M 12 x 1.5	25	-	16.2	54.5	6	20	6	17	-	-	14	8	21	31
GN 617-8-A-NI	8	M 16 x 1.5	31	-	21.9	69	8	26	8	23	-	-	19	9	26	71
GN 617-10-A-NI	10	M 20 x 1.5	31	-	25.4	80	10	33	10	30	-	-	22	17	40	115
GN 617-5-AK-NI	5	M 10 x 1	21	-	13.8	45	5	17	5	15	-	-	12	6	15	24
GN 617-6-AK-NI	6	M 12 x 1.5	25	-	16.2	54.5	6	20	6	17	-	-	14	8	21	42
GN 617-8-AK-NI	8	M 16 x 1.5	31	-	21.9	69	8	26	8	23	-	-	19	9	26	85
GN 617-10-AK-NI	10	M 20 x 1.5	31	-	25.4	80	10	33	10	30	-	-	22	17	40	143
GN 617-5-G-NI	5	M 10 x 1	-	M 5	13.8	-	5	17	5	15	6	4.5	12	6	15	15
GN 617-6-G-NI	6	M 12 x 1.5	-	M 6	16.2	-	6	20	6	17	10	8	14	8	21	25
GN 617-8-G-NI	8	M 16 x 1.5	-	M 8	21.9	-	8	26	8	23	12	10	19	9	26	55
GN 617-10-G-NI	10	M 20 x 1.5	-	M 8	25.4	-	10	33	10	30	12	12	22	17	40	98
GN 617-5-GK-NI	5	M 10 x 1	-	M 5	13.8	-	5	17	5	15	6	4.5	12	6	15	22
GN 617-6-GK-NI	6	M 12 x 1.5	-	M 6	16.2	-	6	20	6	17	10	8	14	8	21	35
GN 617-8-GK-NI	8	M 16 x 1.5	-	M 8	21.9	-	8	26	8	23	12	10	19	9	26	77
GN 617-10-GK-NI	10	M 20 x 1.5	-	M 8	25.4	-	10	33	10	30	12	12	22	17	40	131

GN 617-NI (Stainless Steel knob)

STAINLESS STEEL

Description	d1 Pin -0.02/-0.05 Bore H7	d2	d3	e	l1 ≈	l2 min.	l3	l4	l5	l6 min.	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 617-5-AN-NI	5	M 10 x 1	21	13.8	45	5	17	5	6	15	12	6	15	39
GN 617-6-AN-NI	6	M 12 x 1.5	25	16.2	54.5	6	20	6	10	17	14	8	21	65
GN 617-8-AN-NI	8	M 16 x 1.5	31	21.9	69	8	26	8	12	23	19	9	26	135
GN 617-10-AN-NI	10	M 20 x 1.5	31	25.4	80	10	33	10	12	30	22	17	40	175
GN 617-5-AKN-NI	5	M 10 x 1	21	13.8	45	5	17	5	6	15	12	6	15	40
GN 617-6-AKN-NI	6	M 12 x 1.5	25	16.2	54.5	6	20	6	10	17	14	8	21	130
GN 617-8-AKN-NI	8	M 16 x 1.5	31	21.9	69	8	26	8	12	23	19	9	26	156
GN 617-10-AKN-NI	10	M 20 x 1.5	31	25.4	80	10	33	10	12	30	22	17	40	220

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Indexing plungers

Steel / Stainless Steel with rest position

SPECIFICATION

Types

- Type **A**: with Plastic-Knob, without lock nut
- Type **AK**: with Plastic-Knob, with lock nut
- Type **AN**: with Stainless Steel-Knob, without lock nut
- Type **AKN**: with Stainless Steel-Knob, with lock nut

Version in Steel

- blackened
- Pin hardened

Version in Stainless Steel AISI 303 NI

Pin chemically nickel plated

Knob Type A / AK

- Plastic (Polyamide PA)
- black, matt
- not removable

Knob Type AN / AKN

- Stainless Steel AISI 303
- not removable

INFORMATION

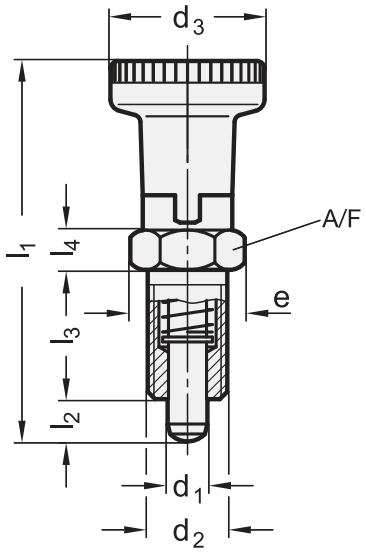
Indexing plungers GN 617.1 with rest position are used for such applications where the plunger has to stay in its retracted position. To achieve this, the knob is rotated by 90° degrees after being retracted. A notch keeps the plunger in this position.

- Range of indexing plungers (see page 738)

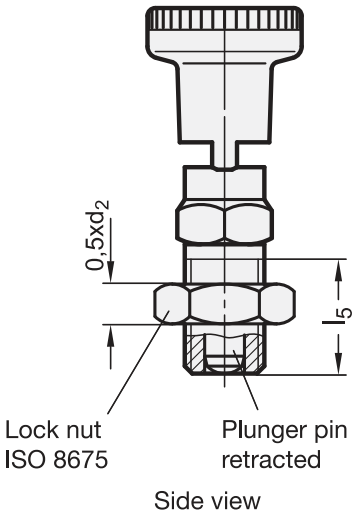
TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)

Type **A**



Type **AK**



Side view

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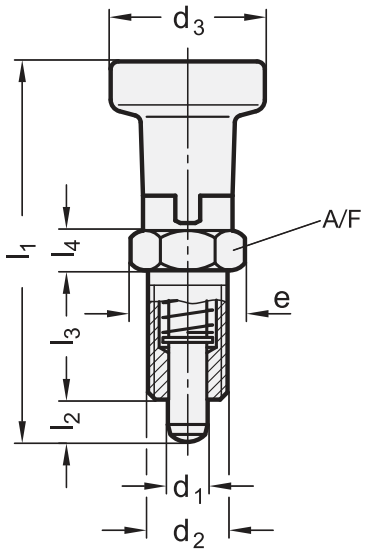
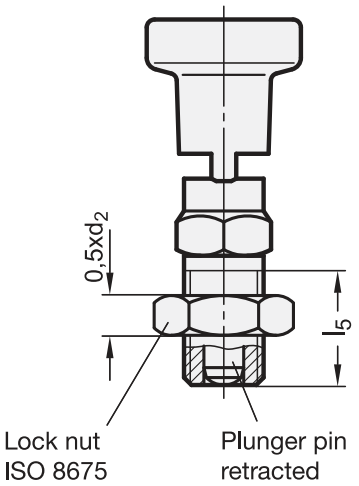
Type **AN**



Type **AKN**



GN 617.1 (Steel with Plastic knob)

Description	d1 Pin -0.02/-0.05 Bore H7	d2	d3	e	l1 ≈	l2	l3	l4	l5 min.	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 617.1-5-A	5	M 10 x 1	21	13.8	51	5	17	5	15	12	7	17	22
GN 617.1-6-A	6	M 12 x 1.5	25	16.2	61	6	20	6	17	14	9	24	35
GN 617.1-8-A	8	M 16 x 1.5	31	21.9	75.5	7	26	8	23	19	11	30	78
GN 617.1-10-A	10	M 20 x 1.5	31	25.4	91	10	33	10	30	22	19	45	100
GN 617.1-5-AK	5	M 10 x 1	21	13.8	51	5	17	5	15	12	7	17	27
GN 617.1-6-AK	6	M 12 x 1.5	25	16.2	61	6	20	6	17	14	9	24	43
GN 617.1-8-AK	8	M 16 x 1.5	31	21.9	75.5	7	26	8	23	19	11	30	96
GN 617.1-10-AK	10	M 20 x 1.5	31	25.4	91	10	33	10	30	22	19	45	163

GN 617.1-NI (Stainless Steel with Plastic knob) **STAINLESS STEEL**

Description	d1 Pin -0.02/-0.05 Bore H7	d2	d3	e	l1 ≈	l2	l3	l4	l5 min.	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 617.1-5-A-NI	5	M 10 x 1	21	13.8	51	5	17	5	15	12	6	15	22
GN 617.1-6-A-NI	6	M 12 x 1.5	25	16.2	61	6	20	6	17	14	8	21	36
GN 617.1-8-A-NI	8	M 16 x 1.5	31	21.9	75.5	7	26	8	23	19	9	26	79
GN 617.1-10-A-NI	10	M 20 x 1.5	31	25.4	91	10	33	10	30	22	17	40	135
GN 617.1-5-AK-NI	5	M 10 x 1	21	13.8	51	5	17	5	15	12	6	15	27
GN 617.1-6-AK-NI	6	M 12 x 1.5	25	16.2	61	6	20	6	17	14	8	21	43
GN 617.1-8-AK-NI	8	M 16 x 1.5	31	21.9	75.5	7	26	8	23	19	9	26	96
GN 617.1-10-AK-NI	10	M 20 x 1.5	31	25.4	91	10	33	10	30	22	17	40	136

GN 617.1-NI (Stainless Steel knob) **STAINLESS STEEL**

Description	d1 Pin -0.02/-0.05 Bore H7	d2	d3	e	l1 ≈	l2	l3	l4	l5 min.	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 617.1-5-AN-NI	5	M 10 x 1	21	13.8	51	5	17	5	15	12	6	15	47
GN 617.1-6-AN-NI	6	M 12 x 1.5	25	16.2	61	6	20	6	17	14	8	21	74
GN 617.1-8-AN-NI	8	M 16 x 1.5	31	21.9	75.5	7	26	8	23	19	9	26	150
GN 617.1-10-AN-NI	10	M 20 x 1.5	31	25.4	91	10	33	10	30	22	17	40	200
GN 617.1-5-AKN-NI	5	M 10 x 1	21	13.8	51	5	17	5	15	12	6	15	52
GN 617.1-6-AKN-NI	6	M 12 x 1.5	25	16.2	61	6	20	6	17	14	8	21	82
GN 617.1-8-AKN-NI	8	M 16 x 1.5	31	21.9	75.5	7	26	8	23	19	9	26	168
GN 617.1-10-AKN-NI	10	M 20 x 1.5	31	25.4	91	10	33	10	30	22	17	40	240

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Indexing plungers

Steel / Stainless Steel without rest position

SPECIFICATION

Types

- Type **A**: with Plastic-Knob, without lock nut
- Type **AK**: with Plastic-Knob, with lock nut
- Type **AN**: with Stainless Steel-Knob, without lock nut
- Type **AKN**: with Stainless Steel-Knob, with lock nut
- Type **G**: with threaded rod, without lock nut
- Type **GK**: with threaded rod, with lock nut

Steel

- blackened
- Pin hardened

Stainless Steel AISI 303 **NI**
Pin chemically nickel plated

Knob Type A / AK

- Plastic (Polyamide PA)
- black, matt
- not removable

Knob Type AN / AKN

- Stainless Steel AISI 303
- not removable

INFORMATION

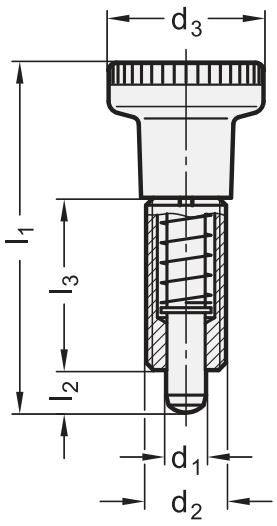
Type G or GK of the GN 613 indexing plungers have been designed for applications where the indexing plunger is not operated with the standard knob.
The indexing plungers are designed such that the plunger set in the end position (spring is "on block") can also absorb axial forces. For applications in which these forces are substantially above the tensile force applied by the operator (Type G), GN 817 (see page 754) indexing plungers are to be preferred.
A special screw driver GN 613.1 is available. Two slots are provided in the upper end of the body which are accessible with the knob in its retracted position.

- Range of indexing plungers (see page 738)

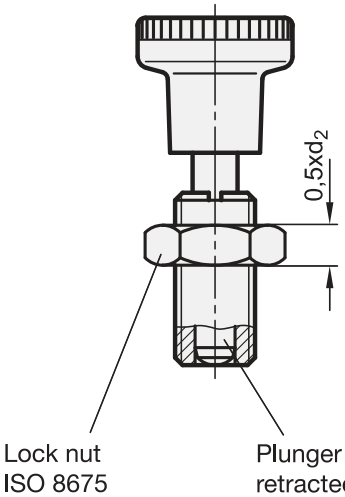
TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)

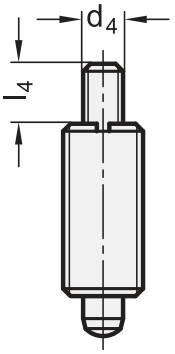
Type **A**



Type **AK**



Type **G**



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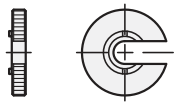

GN 613 (Steel with Plastic knob)

Description	d1 Pin -0.02/-0.05 Bore H7	d2	d3	d4	l1 ≈	l2 min.	l3	l4	Spring load in N ≈ initial	Spring load in N ≈ end	Code no. Screw driver	⚖
GN 613-5-A	5	M 10 x 1	21	-	45	5	22	6	7	17	GN 613.1-5	17
GN 613-6-A	6	M 12 x 1.5	25	-	54.5	6	26	10	9	24	GN 613.1-6	29
GN 613-8-A	8	M 16 x 1.5	31	-	69	8	34	12	11	30	GN 613.1-8	62
GN 613-10-A	10	M 20 x 1.5	31	-	80	10	43	12	19	45	GN 613.1-10	92
GN 613-5-AK	5	M 10 x 1	21	-	45	5	22	6	7	17	GN 613.1-5	25
GN 613-6-AK	6	M 12 x 1.5	25	-	54.5	6	26	10	9	24	GN 613.1-6	38
GN 613-8-AK	8	M 16 x 1.5	31	-	69	8	34	12	11	30	GN 613.1-8	82
GN 613-10-AK	10	M 20 x 1.5	31	-	80	10	43	12	19	45	GN 613.1-10	127
GN 613-5-G	5	M 10 x 1	-	M 5	-	5	22	6	7	17	GN 613.1-5	14
GN 613-6-G	6	M 12 x 1.5	-	M 6	-	6	26	10	9	24	GN 613.1-6	20
GN 613-8-G	8	M 16 x 1.5	-	M 8	-	8	34	12	11	30	GN 613.1-8	40
GN 613-10-G	10	M 20 x 1.5	-	M 8	-	10	43	12	19	45	GN 613.1-10	86
GN 613-5-GK	5	M 10 x 1	-	M 5	-	5	22	6	7	17	GN 613.1-5	21
GN 613-6-GK	6	M 12 x 1.5	-	M 6	-	6	26	10	9	24	GN 613.1-6	37
GN 613-8-GK	8	M 16 x 1.5	-	M 8	-	8	34	12	11	30	GN 613.1-8	64
GN 613-10-GK	10	M 20 x 1.5	-	M 8	-	10	43	12	19	45	GN 613.1-10	121

GN 613-NI (Stainless Steel with Plastic knob)

STAINLESS STEEL

Description	d1 Pin -0.02/-0.05 Bore H7	d2	d3	d4	l1 ≈	l2 min.	l3	l4	Spring load in N ≈ initial	Spring load in N ≈ end	Code no. Screw driver	⚖
GN 613-5-A-NI	5	M 10 x 1	21	-	45	5	22	6	6	15	GN 613.1-5	15
GN 613-6-A-NI	6	M 12 x 1.5	25	-	54.5	6	26	10	8	21	GN 613.1-6	29
GN 613-8-A-NI	8	M 16 x 1.5	31	-	69	8	34	12	9	26	GN 613.1-8	64
GN 613-10-A-NI	10	M 20 x 1.5	31	-	80	10	43	12	17	40	GN 613.1-10	106
GN 613-5-AK-NI	5	M 10 x 1	21	-	45	5	22	6	6	15	GN 613.1-5	25
GN 613-6-AK-NI	6	M 12 x 1.5	25	-	54.5	6	26	10	8	21	GN 613.1-6	35
GN 613-8-AK-NI	8	M 16 x 1.5	31	-	69	8	34	12	9	26	GN 613.1-8	82
GN 613-10-AK-NI	10	M 20 x 1.5	31	-	80	10	43	12	17	40	GN 613.1-10	127
GN 613-5-G-NI	5	M 10 x 1	-	M 5	-	5	22	6	6	15	GN 613.1-5	14
GN 613-6-G-NI	6	M 12 x 1.5	-	M 6	-	6	26	10	8	21	GN 613.1-6	19
GN 613-8-G-NI	8	M 16 x 1.5	-	M 8	-	8	34	12	9	26	GN 613.1-8	44
GN 613-10-G-NI	10	M 20 x 1.5	-	M 8	-	10	43	12	17	40	GN 613.1-10	88
GN 613-5-GK-NI	5	M 10 x 1	-	M 5	-	5	22	6	6	15	GN 613.1-5	21
GN 613-6-GK-NI	6	M 12 x 1.5	-	M 6	-	6	26	10	8	21	GN 613.1-6	27
GN 613-8-GK-NI	8	M 16 x 1.5	-	M 8	-	8	34	12	9	26	GN 613.1-8	64
GN 613-10-GK-NI	10	M 20 x 1.5	-	M 8	-	10	43	12	17	40	GN 613.1-10	123

GN 613-NI (Stainless Steel knob)

STAINLESS STEEL

Description	d1 Pin -0.02/-0.05 Bore H7	d2	d3	l1 ≈	l2 min.	l3	Spring load in N ≈ initial	Spring load in N ≈ end	Code no. Screw driver	⚖
GN 613-5-AN-NI	5	M 10 x 1	21	45	5	22	6	15	GN 613.1-5	37
GN 613-6-AN-NI	6	M 12 x 1.5	25	54.5	6	26	8	21	GN 613.1-6	61
GN 613-8-AN-NI	8	M 16 x 1.5	31	69	8	34	9	26	GN 613.1-8	123
GN 613-10-AN-NI	10	M 20 x 1.5	31	80	10	43	17	40	GN 613.1-10	171
GN 613-5-AKN-NI	5	M 10 x 1	21	45	5	22	6	15	GN 613.1-5	40
GN 613-6-AKN-NI	6	M 12 x 1.5	25	54.5	6	26	8	21	GN 613.1-6	69
GN 613-8-AKN-NI	8	M 16 x 1.5	31	69	8	34	9	26	GN 613.1-8	140
GN 613-10-AKN-NI	10	M 20 x 1.5	31	80	10	43	17	40	GN 613.1-10	200

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Indexing plungers

SUPER-technopolymer body

THREADED BODY
Glass-fibre reinforced polyamide based (PA) SUPER-tecnopolymer.

PLUNGER
Black-oxide hardened steel or AISI 303 stainless steel.
Suggested tolerance for matching hole = H7.

KNOB
High-resilience polyamide based (PA) technopolymer, black colour or RAL 3000 red colour (C6), matte finish.

SPRING
AISI 302 stainless steel.

LOCKING NUT (NTT)
Glass-fibre reinforced polyamide based (PA) SUPER-tecnopolymer.
Available also as accessory sold separately (see table NTT).

STANDARD EXECUTIONS
- **PMT.100-A:** black-oxide steel plunger, without locking nut.
- **PMT.100-AK:** black-oxide steel plunger, with locking nut (supplied not assembled).
- **PMT.100-SST-A:** AISI 303 stainless steel plunger, without locking nut, not magnetic.
- **PMT.100-SST-AK:** AISI 303 stainless steel plunger, with locking nut (supplied not assembled), not magnetic.

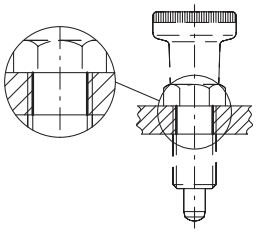
FEATURES AND APPLICATIONS
- Lightness and high mechanical resistance of the product.
- The SUPER-technopolymer threaded body of the plunger offers a low friction factor to the plunger stroke; no lubricating maintenance is required.
- Anticorrosive material: suitable even in the presence of liquid or humidity (PMT.100-SST).
- Resistant to several cleaning cycles with solvents and other chemical agents, for this reason they are suitable for applications as in the pharmaceutical or food industry.

ASSEMBLY INSTRUCTIONS
Make sure that no machining residues are left on the threaded hole for the assembly of PMT.100 indexing plunger (see fig. 1). Do not make any chamfering in the hole (see fig. 2).
SUPER-technopolymer product based on ELESA technology, dimensions according to GN 617 (see page 744) standards as agreed with Otto Ganter GmbH Co. KG.

ANOTHER STANDARD EXECUTION
PMT.101: (see page 752) indexing plungers with rest position.

ELESA Original design

Fig.1



PMT.100-A
PMT.100-SST-A

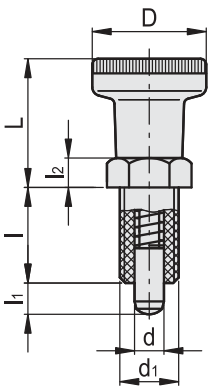
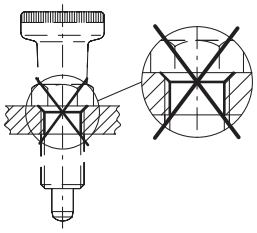
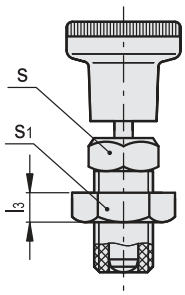


Fig.2



PMT.100-AK
PMT.100-SST-AK



NTT

Code	Description
301083	NTT-M10x1
301085	NTT-M12x1,5
301087	NTT-M16x1,5
301089	NTT-M20x1,5

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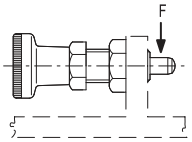
PMT.100 | Indexing plungers



PMT.100

Code	Description	d -0.15 -0.1	d1	L	D	l	l1	l2	l3	s	s1	[N]*	[N]#	Max. tightening torque [Nm]	Static load at breakage F [N]	⚖
51501	PMT.100-5-M10x1-A	5	M10x1	23	21	17	5	5	-	12	-	7	17	6	2300	13
51501-C6	PMT.100-5-M10x1-A-C6	5	M10x1	23	21	17	5	5	-	12	-	7	17	6	2300	13
51502	PMT.100-6-M12x1.5-A	6	M12x1.5	28	25	20	6	6	-	14	-	9	24	10	3500	20
51502-C6	PMT.100-6-M12x1,5-A-C6	6	M12x1.5	28	25	20	6	6	-	14	-	9	24	10	3500	20
51511	PMT.100-8-M16x1.5-A	8	M16x1.5	35	31	26	8	8	-	19	-	11	30	18	5900	25
51511-C6	PMT.100-8-M16x1,5-A-C6	8	M16x1.5	35	31	26	8	8	-	19	-	11	30	18	5900	25
51512	PMT.100-10-M20x1.5-A	10	M20x1.5	37	31	33	10	10	-	22	-	19	45	25	7700	32
51512-C6	PMT.100-10-M20x1,5-A-C6	10	M20x1.5	37	31	33	10	10	-	22	-	19	45	25	7700	32
51521	PMT.100-5-M10x1-AK	5	M10x1	23	21	17	5	5	7	12	16	7	17	6	2300	23
51521-C6	PMT.100-5-M10x1-AK-C6	5	M10x1	23	21	17	5	5	7	12	16	7	17	6	2300	23
51522	PMT.100-6-M12x1.5-AK	6	M12x1.5	28	25	20	6	6	8	14	19	9	24	10	3500	33
51522-C6	PMT.100-6-M12x1,5-AK-C6	6	M12x1.5	28	25	20	6	6	8	14	19	9	24	10	3500	33
51531	PMT.100-8-M16x1.5-AK	8	M16x1.5	35	31	26	8	8	10	19	24	11	30	18	5900	50
51531-C6	PMT.100-8-M16x1,5-AK-C6	8	M16x1.5	35	31	26	8	8	10	19	24	11	30	18	5900	50
51532	PMT.100-10-M20x1.5-AK	10	M20x1.5	37	31	33	10	10	11	22	30	19	45	25	7700	69
51532-C6	PMT.100-10-M20x1,5-AK-C6	10	M20x1.5	37	31	33	10	10	11	22	30	19	45	25	7700	69

PMT.100-SST

STAINLESS STEEL

Code	Description	d -0.15 -0.1	d1	L	D	l	l1	l2	l3	s	s1	[N]*	[N]#	Max. tightening torque [Nm]	Static load at breakage F [N]	⚖
51551	PMT.100-SST-5-M10x1-A	5	M10x1	23	21	17	5	5	-	12	-	7	17	6	1800	13
51551-C6	PMT.100-SST-5-M10x1-A-C6	5	M10x1	23	21	17	5	5	-	12	-	7	17	6	1800	13
51552	PMT.100-SST-6-M12x1.5-A	6	M12x1.5	28	25	20	6	6	-	14	-	9	24	10	2900	20
51552-C6	PMT.100-SST-6-M12x1,5-A-C6	6	M12x1.5	28	25	20	6	6	-	14	-	9	24	10	2900	20
51561	PMT.100-SST-8-M16x1.5-A	8	M16x1.5	35	31	26	8	8	-	19	-	11	30	18	4400	25
51561-C6	PMT.100-SST-8-M16x1,5-A-C6	8	M16x1.5	35	31	26	8	8	-	19	-	11	30	18	4400	25
51562	PMT.100-SST-10-M20x1.5-A	10	M20x1.5	37	31	33	10	10	-	22	-	19	45	25	6800	32
51562-C6	PMT.100-SST-10-M20x1,5-A-C6	10	M20x1.5	37	31	33	10	10	-	22	-	19	45	25	6800	32
51571	PMT.100-SST-5-M10x1-AK	5	M10x1	23	21	17	5	5	7	12	16	7	17	6	1800	23
51571-C6	PMT.100-SST-5-M10x1-AK-C6	5	M10x1	23	21	17	5	5	7	12	16	7	17	6	1800	23
51572	PMT.100-SST-6-M12x1.5-AK	6	M12x1.5	28	25	20	6	6	8	14	19	9	24	10	2900	33
51572-C6	PMT.100-SST-6-M12x1,5-AK-C6	6	M12x1.5	28	25	20	6	6	8	14	19	9	24	10	2900	33
51581	PMT.100-SST-8-M16x1.5-AK	8	M16x1.5	35	31	26	8	8	10	19	24	11	30	18	4400	50
51581-C6	PMT.100-SST-8-M16x1,5-AK-C6	8	M16x1.5	35	31	26	8	8	10	19	24	11	30	18	4400	50
51582	PMT.100-SST-10-M20x1.5-AK	10	M20x1.5	37	31	33	10	10	11	22	30	19	45	25	6800	69
51582-C6	PMT.100-SST-10-M20x1,5-AK-C6	10	M20x1.5	37	31	33	10	10	11	22	30	19	45	25	6800	69

Index C6: indexing plunger with RAL 3000 red colour knob.

***** Spring preload

Spring maximum load

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Indexing plungers

Rest position, SUPER-technopolymer body

THREADED BODY
Glass-fibre reinforced polyamide based (PA) SUPER-tecnopolymer.

PLUNGER
Black-oxide hardened steel or AISI 303 stainless steel.
Suggested tolerance for matching hole = H7.

KNOB
High-resilienceolyamide based (PA) technopolymer, black colour or RAL 3000 red colour (C6), matte finish.

SPRING
AISI 302 stainless steel.

LOCKING NUT NTT
Glass-fibre reinforced polyamide based (PA) SUPER-tecnopolymer.
Available also as accessory sold separately (see table NTT).

STANDARD EXECUTIONS
- **PMT.101-A:** black-oxide steel plunger, without locking nut.
- **PMT.101-AK:** black-oxide steel plunger, with locking nut (supplied not assembled).
- **PMT.101-SST-A:** AISI 303 stainless steel plunger, without locking nut, not magnetic.
- **PMT.101-SST-AK:** AISI 303 stainless steel plunger, with locking nut (supplied not assembled), not magnetic.

FEATURES AND APPLICATIONS
- Lightness and mechanical resistance of the product.
- The SUPER-technopolymer threaded body of the plunger offers a low friction factor to the plunger stroke; no lubricating maintenance is required.
- Anticorrosive material: suitable even in the presence of liquid or humidity (PMT.101-SST).
- Resistant to several cleaning cycles with solvents and other chemical agents, for this reason they are suitable for applications as in the pharmaceutical or food industry.
- The stop toothing (for the rest position), made out of SUPER-technopolymer, protects the device from seizure or wear.

ASSEMBLY INSTRUCTIONS
Make sure that no machining residues are left on the threaded hole for the assembly of PMT.101 indexing plunger (see fig. 1). Do not make any chamfering in the hole (see fig. 2).
SUPER-technopolymer product based on ELESA technology, dimensions according to GN 617 (see page 744) standards as agreed with Otto Ganter GmbH Co. KG.

ANOTHER STANDARD EXECUTION
PMT.100: (see page 750) indexing plungers without rest position.

ELESA Original design

Fig.1

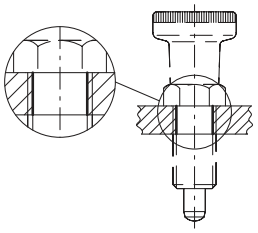
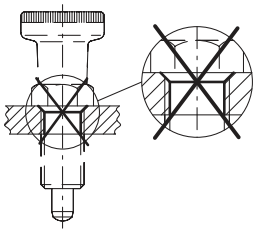
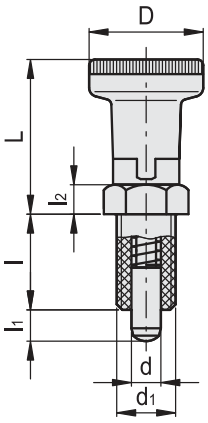


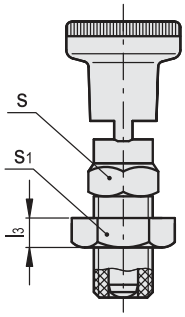
Fig.2



PMT.101-A
PMT.101-SST-A



PMT.101-AK
PMT.101-SST-AK



NTT

Code	Description
301083	NTT-M10x1
301085	NTT-M12x1,5
301087	NTT-M16x1,5
301089	NTT-M20x1,5

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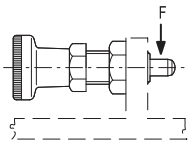
PMT.101 | Indexing plungers



PMT.101

Code	Description	d-0.15 -0.1	d1	L	D	l	l1	l2	l3	s	s1	[N]*	[N]#	Max. tightening torque [Nm]	Static load at breakage F [N]	⚖
51601	PMT.101-5-M10x1-A	5	M10x1	29	21	17	5	5	-	12	-	7	17	6	2300	13
51601-C6	PMT.101-5-M10x1-A-C6	5	M10x1	29	21	17	5	5	-	12	-	7	17	6	2300	13
51602	PMT.101-6-M12x1.5-A	6	M12x1.5	35	25	20	6	6	-	14	-	9	24	10	3500	20
51602-C6	PMT.101-6-M12x1,5-A-C6	6	M12x1.5	35	25	20	6	6	-	14	-	9	24	10	3500	20
51611	PMT.101-8-M16x1.5-A	8	M16x1.5	43	31	26	8	8	-	19	-	11	30	18	5900	25
51611-C6	PMT.101-8-M16x1,5-A-C6	8	M16x1.5	43	31	26	8	8	-	19	-	11	30	18	5900	25
51612	PMT.101-10-M20x1.5-A	10	M20x1.5	48	31	33	10	10	-	22	-	19	45	25	7700	32
51612-C6	PMT.101-10-M20x1,5-A-C6	10	M20x1.5	48	31	33	10	10	-	22	-	19	45	25	7700	32
51621	PMT.101-5-M10x1-AK	5	M10x1	29	21	17	5	5	7	12	16	7	17	6	2300	23
51621-C6	PMT.101-5-M10x1-AK-C6	5	M10x1	29	21	17	5	5	7	12	16	7	17	6	2300	23
51622	PMT.101-6-M12x1.5-AK	6	M12x1.5	35	25	20	6	6	8	14	19	9	24	10	3500	33
51622-C6	PMT.101-6-M12x1,5-AK-C6	6	M12x1.5	35	25	20	6	6	8	14	19	9	24	10	3500	33
51631	PMT.101-8-M16x1.5-AK	8	M16x1.5	43	31	26	8	8	10	19	24	11	30	18	5900	50
51631-C6	PMT.101-8-M16x1,5-AK-C6	8	M16x1.5	43	31	26	8	8	10	19	24	11	30	18	5900	50
51632	PMT.101-10-M20x1.5-AK	10	M20x1.5	48	31	33	10	10	11	22	30	19	45	25	7700	69
51632-C6	PMT.101-10-M20x1,5-AK-C6	10	M20x1.5	48	31	33	10	10	11	22	30	19	45	25	7700	69

PMT.101-SST

STAINLESS STEEL

Code	Description	d-0.15 -0.1	d1	L	D	l	l1	l2	l3	s	s1	[N]*	[N]#	Max. tightening torque [Nm]	Static load at breakage F [N]	⚖
51651	PMT.101-SST-5-M10x1-A	5	M10x1	29	21	17	5	5	-	12	-	7	17	6	1800	13
51651-C6	PMT.101-SST-5-M10x1-A-C6	5	M10x1	29	21	17	5	5	-	12	-	7	17	6	1800	13
51652	PMT.101-SST-6-M12x1.5-A	6	M12x1.5	35	25	20	6	6	-	14	-	9	24	10	2900	20
51652-C6	PMT.101-SST-6-M12x1,5-A-C6	6	M12x1.5	35	25	20	6	6	-	14	-	9	24	10	2900	20
51661	PMT.101-SST-8-M16x1.5-A	8	M16x1.5	43	31	26	8	8	-	19	-	11	30	18	4400	25
51661-C6	PMT.101-SST-8-M16x1,5-A-C6	8	M16x1.5	43	31	26	8	8	-	19	-	11	30	18	4400	25
51662	PMT.101-SST-10-M20x1.5-A	10	M20x1.5	48	31	33	10	10	-	22	-	19	45	25	6800	32
51662-C6	PMT.101-SST-10-M20x1,5-A-C6	10	M20x1.5	48	31	33	10	10	-	22	-	19	45	25	6800	32
51671	PMT.101-SST-5-M10x1-AK	5	M10x1	29	21	17	5	5	7	12	16	7	17	6	1800	23
51671-C6	PMT.101-SST-5-M10x1-AK-C6	5	M10x1	29	21	17	5	5	7	12	16	7	17	6	1800	23
51672	PMT.101-SST-6-M12x1.5-AK	6	M12x1.5	35	25	20	6	6	8	14	19	9	24	10	2900	33
51672-C6	PMT.101-SST-6-M12x1,5-AK-C6	6	M12x1.5	35	25	20	6	6	8	14	19	9	24	10	2900	33
51681	PMT.101-SST-8-M16x1.5-AK	8	M16x1.5	43	31	26	8	8	10	19	24	11	30	18	4400	50
51681-C6	PMT.101-SST-8-M16x1,5-AK-C6	8	M16x1.5	43	31	26	8	8	10	19	24	11	30	18	4400	50
51682	PMT.101-SST-10-M20x1.5-AK	10	M20x1.5	48	31	33	10	10	11	22	30	19	45	25	6800	69
51682-C6	PMT.101-SST-10-M20x1,5-AK-C6	10	M20x1.5	48	31	33	10	10	11	22	30	19	45	25	6800	69

Index C6: indexing plunger with RAL 3000 red colour knob.

***** Spring preload

Spring maximum load

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Indexing plungers

Steel / Stainless Steel, with and without rest position

SPECIFICATION

Types

- Type **B**: without rest position, without lock nut
- Type **BK**: without rest position, with lock nut
- Type **C**: with rest position, without lock nut
- Type **CK**: with rest position, with lock nut
- Type **G**: with threaded rod, without lock nut
- Type **GK**: with threaded rod, with lock nut

Steel

- blackened
- Pin hardened

Stainless Steel AISI 303 **NI**
Pin chemically nickel plated

Knob Plastic (Polyamide PA)

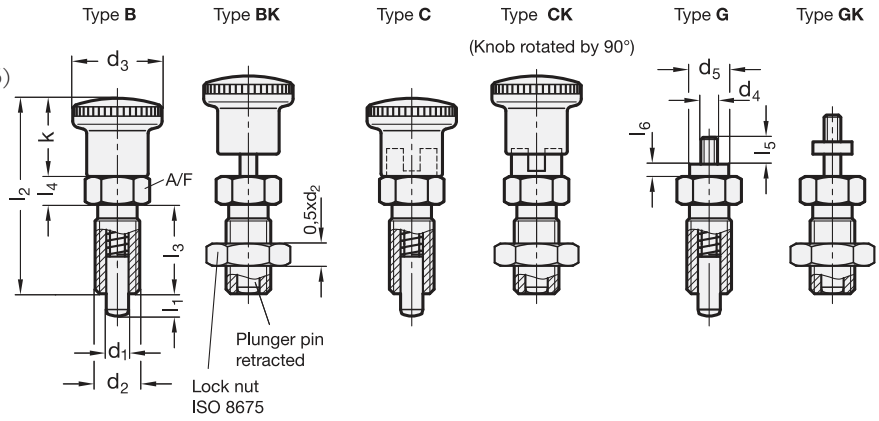
- black, matt
- red **RT** RAL 3000 (add RT on order code)
- not removable

INFORMATION

Indexing plungers GN 817 with rest position (Type C / CK) are used for such applications where the plunger has to stay in its rectracted position.
To achieve this, the knob is rotated by 90° degrees after being retracted. A notch keeps the plunger in this position.
- Range of indexing plungers (see page 738)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)



*Complete with type index of the Indexing plungers (B, BK, C, CK, G or GK)

B **BK** **C** **CK** **G** **GK**

GN 817

Description	d1 Pin -0.02/-0.05 Bore H7	l1	d2	d3	d4	d5	k	l2	l3	l4	l5	l6	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 817-4-4-*	4	4	M 8 x 1	16	M 3	7	14	35	16	5	4.5	2.5	10	4.5	12	11
GN 817-4-6-*	4	6	M 8 x 1	16	M 3	7	14	35	16	5	4.5	2.5	10	4	12.5	12
GN 817-5-5-*	5	5	M 10 x 1	19	M 4	8	16	40	18	6	5.5	3	12	5	15	19
GN 817-5-8-*	5	8	M 10 x 1	19	M 4	8	16	40	18	6	5.5	3	12	5	18	20
GN 817-6-6-*	6	6	M 12 x 1.5	23	M 5	9	20	48	22	6	7	3.5	14	6.5	19	30
GN 817-6-9-*	6	9	M 12 x 1.5	23	M 5	9	20	48	22	6	7	3.5	14	6	25	31
GN 817-8-8-*	8	8	M 16 x 1.5	28	M 6	10	24	58	26	8	8.5	4	17	8.5	26	64
GN 817-8-12-*	8	12	M 16 x 1.5	28	M 6	10	24	58	26	8	8.5	4	17	8.5	28	65
GN 817-10-12-*	10	12	M 16 x 1.5	28	M 6	10	24	58	26	8	8.5	4	17	9.5	38	65
GN 817-12-15-*	12	15	M 20 x 1.5	33	M 6	12	28.5	71.5	33	10	8.5	4	22	11.5	40	118
GN 817-16-20-*	16	20	M 24 x 2	33	M 8	15	28.5	78.5	38	12	11.5	5	27	13	54	203

Weight type B

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GN 817 | Indexing plungers

*Complete with type index of the Indexing plungers (B, BK, C, CK, G or GK)

B BK C CK G GK

GN 817-NI

STAINLESS STEEL

Description	d1 Pin -0.02/-0.05 Bore H7	l1	d2	d3	d4	d5	k	l2	l3	l4	l5	l6	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 817-4-4-*-NI	4	4	M 8 x 1	16	M 3	7	14	35	16	5	4.5	2.5	10	4.5	12	11
GN 817-4-6-*-NI	4	6	M 8 x 1	16	M 3	7	14	35	16	5	4.5	2.5	10	4	12.5	11
GN 817-5-5-*-NI	5	5	M 10 x 1	19	M 4	8	16	40	18	6	5.5	3	12	5	15	19
GN 817-5-8-*-NI	5	8	M 10 x 1	19	M 4	8	16	40	18	6	5.5	3	12	5	18	19
GN 817-6-6-*-NI	6	6	M 12 x 1.5	23	M 5	9	20	48	22	6	7	3.5	14	6.5	19	30
GN 817-6-9-*-NI	6	9	M 12 x 1.5	23	M 5	9	20	48	22	6	7	3.5	14	6	25	30
GN 817-8-8-*-NI	8	8	M 16 x 1.5	28	M 6	10	24	58	26	8	8.5	4	17	8.5	26	63
GN 817-8-12-*-NI	8	12	M 16 x 1.5	28	M 6	10	24	58	26	8	8.5	4	17	8.5	28	63
GN 817-10-12-*-NI	10	12	M 16 x 1.5	28	M 6	10	24	58	26	8	8.5	4	17	9.5	38	66
GN 817-12-15-*-NI	12	15	M 20 x 1.5	33	M 6	12	28.5	71.5	33	10	8.5	4	22	11.5	40	118
GN 817-16-20-*-NI	16	20	M 24 x 2	33	M 8	15	28.5	78.5	38	12	11.5	5	27	13	54	260

*Complete with type index of the Indexing plungers (B, BK, C or CK)

B BK C CK

GN 817 (red knob)

Description	d1 Pin -0.02/-0.05 Bore H7	l1	d2	d3	k	l2	l3	l4	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 817-4-4-*-RT	4	4	M 8 x 1	16	14	35	16	5	10	4.5	12	11
GN 817-4-6-*-RT	4	6	M 8 x 1	16	14	35	16	5	10	4	12.5	12
GN 817-5-5-*-RT	5	5	M 10 x 1	19	16	40	18	6	12	5	15	19
GN 817-5-8-*-RT	5	8	M 10 x 1	19	16	40	18	6	12	5	18	19
GN 817-6-6-*-RT	6	6	M 12 x 1.5	23	20	48	22	6	14	6.5	19	31
GN 817-6-9-*-RT	6	9	M 12 x 1.5	23	20	48	22	6	14	6	25	30
GN 817-8-8-*-RT	8	8	M 16 x 1.5	28	24	58	26	8	17	8.5	26	63
GN 817-8-12-*-RT	8	12	M 16 x 1.5	28	24	58	26	8	17	8.5	28	65
GN 817-10-12-*-RT	10	12	M 16 x 1.5	28	24	58	26	8	17	9.5	38	70
GN 817-12-15-*-RT	12	15	M 20 x 1.5	33	28.5	71.5	33	10	22	11.5	40	118
GN 817-16-20-*-RT	16	20	M 24 x 2	33	28.5	78.5	38	12	27	13	54	203

GN 817-NI (red knob)

STAINLESS STEEL

Description	d1 Pin -0.02/-0.05 Bore H7	l1	d2	d3	k	l2	l3	l4	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 817-4-4-*-NI-RT	4	4	M 8 x 1	16	14	35	16	5	10	4.5	12	12
GN 817-4-6-*-NI-RT	4	6	M 8 x 1	16	14	35	16	5	10	4	12.5	12
GN 817-5-5-*-NI-RT	5	5	M 10 x 1	19	16	40	18	6	12	5	15	19
GN 817-5-8-*-NI-RT	5	8	M 10 x 1	19	16	40	18	6	12	5	18	19
GN 817-6-6-*-NI-RT	6	6	M 12 x 1.5	23	20	48	22	6	14	6.5	19	30
GN 817-6-9-*-NI-RT	6	9	M 12 x 1.5	23	20	48	22	6	14	6	25	30
GN 817-8-8-*-NI-RT	8	8	M 16 x 1.5	28	24	58	26	8	17	8.5	26	63
GN 817-8-12-*-NI-RT	8	12	M 16 x 1.5	28	24	58	26	8	17	8.5	28	63
GN 817-10-12-*-NI-RT	10	12	M 16 x 1.5	28	24	58	26	8	17	9.5	38	69
GN 817-12-15-*-NI-RT	12	15	M 20 x 1.5	33	28.5	71.5	33	10	22	11.5	40	118
GN 817-16-20-*-NI-RT	16	20	M 24 x 2	33	28.5	78.5	38	12	27	13	54	200

Weight type B

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Indexing plungers

Steel / Stainless Steel, removable, with or without rest position

SPECIFICATION

Types

- Type **B**: without rest position, without lock nut
- Type **BK**: without rest position, with lock nut
- Type **C**: with rest position, without lock nut
- Type **CK**: with rest position, with lock nut

Version in Steel ST

blackened

- Threaded body
- Lock nut

Version in Stainless Steel NI

- Threaded body, AISI 303
- Lock nut, AISI 304

Pin
Stainless Steel AISI 303

Countersunk screw DIN 7991
Stainless Steel AISI 304

Knob

- Plastic (Polyamide PA)
- black, matt

INFORMATION

Indexing plungers GN 817.8 have been designed such that special versions of the indexing pins can also be made economically in smaller unit quantities.
If reqired, the indexing pins can be machined or made by the user as shown in the drawing above. They are assembled with a countersunk screw and can therefore be assembled several times. All parts are supplied in a non-assembled set.
The indexing plungers type C / CK are used for such applications where the plunger has to stay in its retracted position. To achieve this, the knob is rotated by 90° degrees after being retracted. A notch keeps the plunger in this position.

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)

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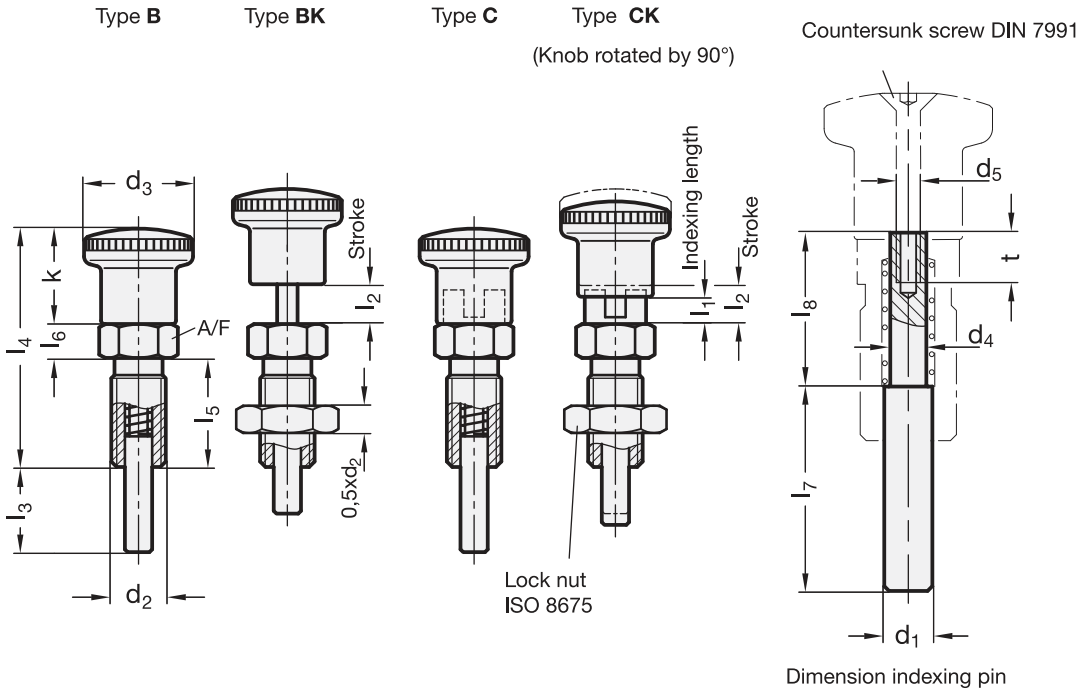

*Complete with type index of the Indexing plungers (B, BK, C or CK)

B BK C CK

GN 817.8

Description	d1 Pin -0.02/-0.05 Bore H7	l1	l2	d2	d3	d4	d5	k	l3	l4	l5	l6	l7	l8	t	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 817.8-7-6-*-ST	7	6	8	M12x1.5	23	5	M3	20	20	48	22	6	31	17.6	7	14	6.5	19	20
GN 817.8-7-9-*-ST	7	9	11	M12x1.5	23	5	M3	20	20	48	22	6	27.5	21.1	7	14	6	25	53
GN 817.8-8-8-*-ST	8	8	10	M16x1.5	28	6	M4	24	25	58	26	8	39	20.6	8	17	8.5	26	72
GN 817.8-8-12-*-ST	8	12	14	M16x1.5	28	6	M4	24	25	58	26	8	34	25.6	8	17	8.5	28	93
GN 817.8-10-12-*-ST	10	12	14	M16x1.5	28	7.5	M4	24	30	58	26	8	39.2	25.4	8	17	9.5	38	75
GN 817.8-12-15-*-ST	12	15	17	M20x1.5	33	9	M6	28.5	35	71.5	33	10	47.3	31.3	13.5	22	11.5	40	147

GN 817.8-NI **STAINLESS STEEL**

Description	d1 Pin -0.02/-0.05 Bore H7	l1	l2	d2	d3	d4	d5	k	l3	l4	l5	l6	l7	l8	t	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 817.8-7-6-*-NI	7	6	8	M12x1.5	23	5	M3	20	20	48	22	6	31	17.6	7	14	6.5	19	20
GN 817.8-7-9-*-NI	7	9	11	M12x1.5	23	5	M3	20	20	48	22	6	27.5	21.1	7	14	6	25	53
GN 817.8-8-8-*-NI	8	8	10	M16x1.5	28	6	M4	24	25	58	26	8	39	20.6	8	17	8.5	26	68
GN 817.8-8-12-*-NI	8	12	14	M16x1.5	28	6	M4	24	25	58	26	8	34	25.6	8	17	8.5	28	75
GN 817.8-10-12-*-NI	10	12	14	M16x1.5	28	7.5	M4	24	30	58	26	8	39.2	25.4	8	17	9.5	38	84
GN 817.8-12-15-*-NI	12	15	17	M20x1.5	33	9	M6	28.5	35	71.5	33	10	47.3	31.3	13.5	22	11.5	40	148

Weight type B

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Indexing plungers

Steel / Stainless Steel, with long knob, with and without rest position

SPECIFICATION

Types

- Type **B**: without rest position, without lock nut
- Type **BK**: without rest position, with lock nut
- Type **C**: with rest position, without lock nut
- Type **CK**: with rest position, with lock nut

Version in Steel

- blackened
- Pin hardened

Version in Stainless Steel NI

- AISI 303
- Pin chemically nickel plated

Knob Plastic (Polyamide PA)

- black, matt
- not removable

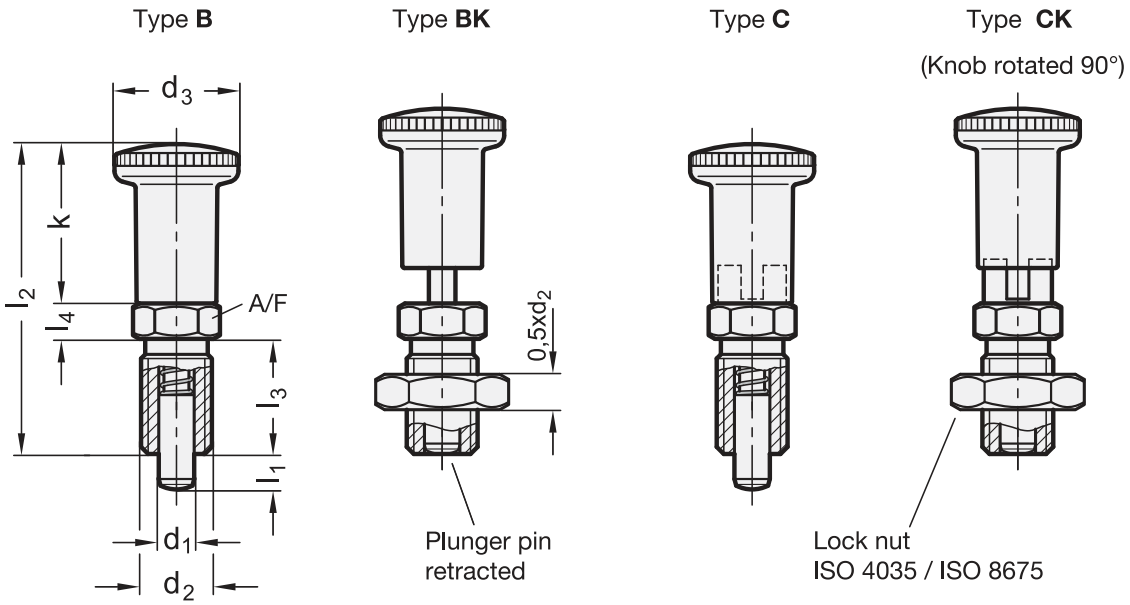
INFORMATION

Indexing plungers GN 817.2 correspond to GN 817 (see page 754), they only differ by a longer knob.
Type C / CK are used for such applications where the plunger has to stay in its retracted position. To achieve this, the knob is roated by 90° degrees after being retracted. A notch keeps the plunger in this position.

- Range of indexing plungers (see page 738)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)



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*Complete with type index of the Indexing plungers (B, BK, C or CK)

B **BK** **C** **CK**

GN 817.2

Description	d1 -0.02/-0.05	l1 min.	d2	d3	k	l2	l3	l4	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 817.2-4-4-*	4	4	M 8 x 1	16	21	42	16	5	10	4.5	12	11
GN 817.2-4-6-*	4	6	M 8 x 1	16	21	42	16	5	10	4	12.5	14
GN 817.2-5-5-*	5	5	M 10 x 1	19	24	48	18	6	12	5	15	20
GN 817.2-5-8-*	5	8	M 10 x 1	19	24	48	18	6	12	5	18	24
GN 817.2-6-6-*	6	6	M 12 x 1.5	23	30	58	22	6	14	6.5	19	40
GN 817.2-6-9-*	6	9	M 12 x 1.5	23	30	58	22	6	14	6	25	44
GN 817.2-8-8-*	8	8	M 16 x 1.5	28	36	70	26	8	17	8.5	26	60
GN 817.2-8-12-*	8	12	M 16 x 1.5	28	36	70	26	8	17	8.5	28	64
GN 817.2-10-12-*	10	12	M 16 x 1.5	28	36	70	26	8	17	9.5	38	70
GN 817.2-12-15-*	12	15	M 20 x 1.5	28	36	79	33	10	22	11.5	40	120

GN 817.2-NI **STAINLESS STEEL**

Description	d1 -0.02/-0.05	l1 min.	d2	d3	k	l2	l3	l4	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 817.2-4-4-*-NI	4	4	M 8 x 1	16	21	42	16	5	10	4.5	12	11
GN 817.2-4-6-*-NI	4	6	M 8 x 1	16	21	42	16	5	10	4	12.5	16
GN 817.2-5-5-*-NI	5	5	M 10 x 1	19	24	48	18	6	12	5	15	19
GN 817.2-5-8-*-NI	5	8	M 10 x 1	19	24	48	18	6	12	5	18	24
GN 817.2-6-6-*-NI	6	6	M 12 x 1.5	23	30	58	22	6	14	6.5	19	31
GN 817.2-6-9-*-NI	6	9	M 12 x 1.5	23	30	58	22	6	14	6	25	40
GN 817.2-8-8-*-NI	8	8	M 16 x 1.5	28	36	70	26	8	17	8.5	26	64
GN 817.2-8-12-*-NI	8	12	M 16 x 1.5	28	36	70	26	8	17	8.5	28	70
GN 817.2-10-12-*-NI	10	12	M 16 x 1.5	28	36	70	26	8	17	9.5	38	80
GN 817.2-12-15-*-NI	12	15	M 20 x 1.5	28	36	79	33	10	22	11.5	40	121

Weight type B

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Indexing plungers

without thread, without rest position

SPECIFICATION

Types

- Type **A**: with knob
- Type **G**: with threaded rod

Steel

- weldable
- blackened
- Pin hardened

Knob Plastic (Polyamide PA)

- black, matt
- not removable

INFORMATION

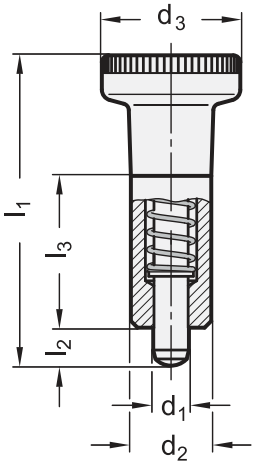
Indexing plungers GN 618 without thread are for applications where welding, resin bonding (Loctite) or clamping is favoured.
Type G has been designed for applications where the indexing plunger is not operated with the standard knob.
The indexing plungers are designed such that the plunger set in the end position (spring is "on block") can also absorb axial forces. For applications in which these forces are substantially above the tensile force applied by the operator (Type G), additional information can be submitted on request.

- Range of indexing plungers (see page 738)

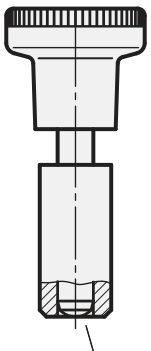
TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Plastic characteristics (see page A2)

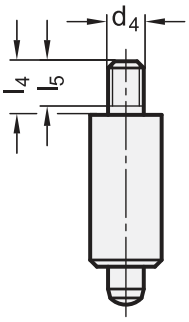
Type **A**



Type **A**



Type **G**



GN 618

Description	d1 Pin -0.02/-0.05 Bore G7	d2 h9	d3	d4	l1 ≈	l2	l3	l4	l5	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 618-5-A	5	12	21	-	45	5	22	-	-	7	17	30
GN 618-6-A	6	14	25	-	54.5	6	26	-	-	9	24	40
GN 618-8-A	8	18	31	-	69	8	34	-	-	11	30	84
GN 618-5-G	5	12	-	M 5	-	5	22	6	4.5	7	17	25
GN 618-6-G	6	14	-	M 6	-	6	26	10	8	9	24	37
GN 618-8-G	8	18	-	M 8	-	8	34	12	10	11	30	69

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GN 817.4

Indexing plungers

Steel / Stainless Steel, with T-Handle, with and without rest position

SPECIFICATION

Types

- Type **B**: without rest position, without lock nut
- Type **BK**: without rest position, with lock nut
- Type **C**: with rest position, without lock nut
- Type **CK**: with rest position, with lock nut

Version in Steel

- blackened
- Pin hardened and grounded

Version in Stainless Steel NI

- AISI 303
- Pin chemically nickel plated

T-Handle
Plastic Polyamide (PA)

- not removable
- black, matt

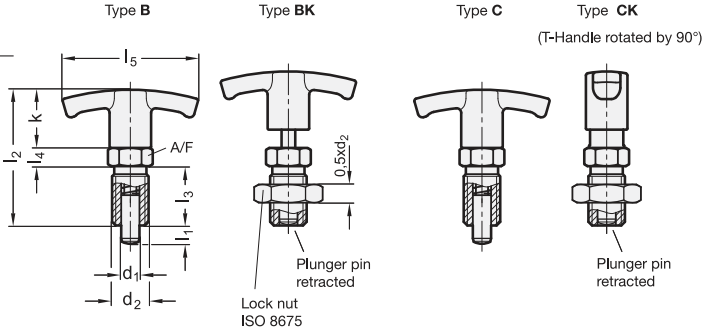
INFORMATION

Indexing plungers GN 817.4 are similar to GN 817 (see page 754) but with a T-handle instead of a round head.
This shape allows better visual orientation of the indexing position of Type C and is advantageouse when greater unlocking forces occur.
Type C with rest position is used in such applications where the plunger must not protrude continually. In that case the knob is retracted and afterwards turned by 90°. A notch keeps the plunger in this position.

- Range of indexing plungers (see page 738)

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)



*Complete with type index of the Indexing plungers (B, BK, C or CK)
B BK C CK

GN 817.4

Description	d1 Pin -0.02/-0.05 Bore H7	l1	d2	k	l2	l3	l4	l5	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 817.4-6-6-*	6	6	M 12 x 1.5	20	48	22	6	54	14	6.5	19	31
GN 817.4-6-9-*	6	9	M 12 x 1.5	20	48	22	6	54	14	6	25	34
GN 817.4-8-8-*	8	8	M 16 x 1.5	25	59	26	8	59	17	8.5	26	64
GN 817.4-8-12-*	8	12	M 16 x 1.5	25	59	26	8	59	17	8.5	28	65
GN 817.4-10-12-*	10	12	M 16 x 1.5	25	59	26	8	59	17	9.5	38	72
GN 817.4-12-15-*	12	15	M 20 x 1.5	25	68	33	10	59	22	11.5	40	120

GN 817.4-NI

STAINLESS STEEL

Description	d1 Pin -0.02/-0.05 Bore H7	l1	d2	k	l2	l3	l4	l5	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 817.4-6-6-*-NI	6	6	M 12 x 1.5	20	48	22	6	54	14	6.5	19	31
GN 817.4-6-9-*-NI	6	9	M 12 x 1.5	20	48	22	6	54	14	6	25	35
GN 817.4-8-8-*-NI	8	8	M 16 x 1.5	25	59	26	8	59	17	8.5	26	64
GN 817.4-8-12-*-NI	8	12	M 16 x 1.5	25	59	26	8	59	17	8.5	28	69
GN 817.4-10-12-*-NI	10	12	M 16 x 1.5	25	59	26	8	59	17	9.5	38	72
GN 817.4-12-15-*-NI	12	15	M 20 x 1.5	25	68	33	10	59	22	11.5	40	120

Weight type B

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Indexing plungers

with or without rest position

SPECIFICATION

Types

- Type **B**: without rest position
- Type **C**: with rest position

Guide
Zinc die casting
plastic coated
black, matt textured finish

Pin
Stainless Steel AISI 303
- chemically nickel plated

Knob
Plastic (Polyamide PA)

- black, matt
- red **RT** RAL 3000, add RT on order code
- not removable

INFORMATION

Indexing plungers GN 817.1 (Type C) are used for such applications wehere the plunger has to stay in its retracted position. To achieve this, the knob is rotated 90° degrees after being retracted. A notch keeps the plunger in this position.

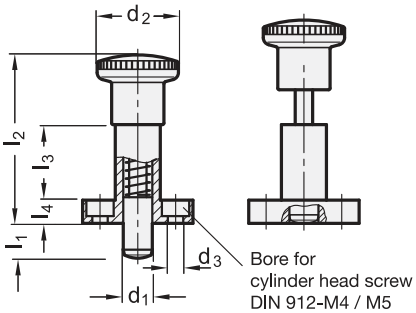
ON REQUEST

- Indexing plungers with T-Handle

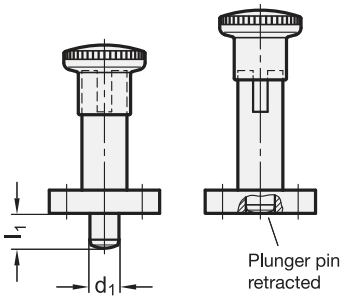
TECHNICAL INFORMATION

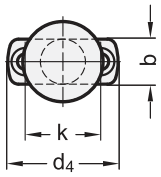
- Plastic characteristics (see page A2)
- Stainless Steel characteristics (see page A26)

Type **B**



Type **C**
(Knob rotated by 90°)





*Complete with type index of the Indexing plungers (B or C)

B without rest position
C with rest position

GN 817.1

Description	d1 Pin -0.02/-0.05 Bore +0.10/+0.03	l1	b	d2	d3	d4	k	l2	l3	l4	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 817.1-6-6-*	6	6	13	23	4.3	34	22	48	22	6	6.5	19	38
GN 817.1-6-6-*-RT	6	6	13	23	4.3	34	22	48	22	6	6.5	19	39
GN 817.1-6-9-*	6	9	13	23	4.3	34	22	48	22	6	6	25	42
GN 817.1-6-9-*-RT	6	9	13	23	4.3	34	22	48	22	6	6	25	41
GN 817.1-8-8-*	8	8	16	28	5.3	38	26	58	26	8	8.5	26	68
GN 817.1-8-8-*-RT	8	8	16	28	5.3	38	26	58	26	8	8.5	26	67
GN 817.1-8-12-*	8	12	16	28	5.3	38	26	58	26	8	8.5	28	74
GN 817.1-8-12-*-RT	8	12	16	28	5.3	38	26	58	26	8	8.5	28	73
GN 817.1-10-12-*	10	12	16	28	5.3	38	26	58	26	8	9.5	38	76
GN 817.1-10-12-*-RT	10	12	16	28	5.3	38	26	58	26	8	9.5	38	75

Weight type B

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GN 817.9

Indexing plungers

removable, with or without rest position

SPECIFICATION

Types

- Type **B**: without rest position
- Type **C**: with rest position

Guide
Zinc die casting
plastic coated
black, textured finish

Pin
Stainless Steel AISI 303

Countersunk screw DIN 7991
Stainless Steel AISI 304

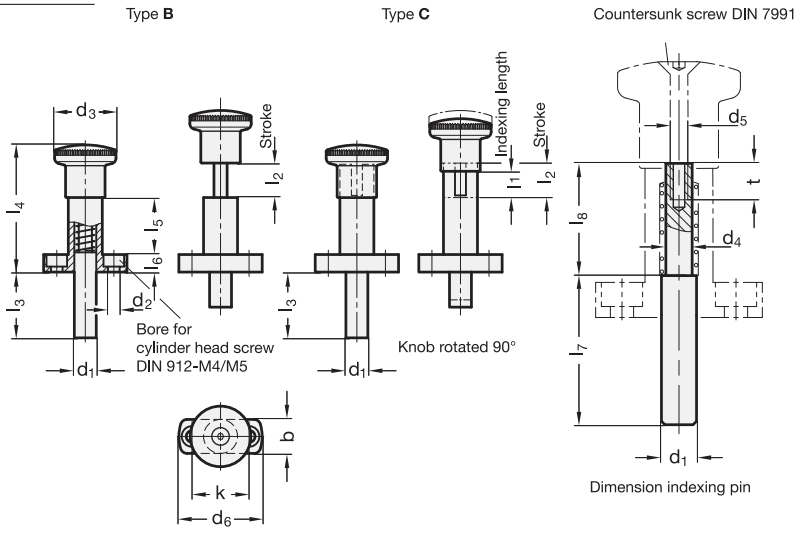
Knob
Plastic (Polyamide PA)
black, matt

INFORMATION

Indexing plungers GN 817.9 have been designed such that special versions of the indexing pins can also be made economically in smaller unit quantities.
If reqired, the indexing pins can be machined or made by the user as shown in the drawing above. They are assembled with a countersunk screw and can therefore be assembled several times. All parts are supplied in a non-assembled set.
The indexing plungers type C are used for such applications where the plunger has to stay in its retracted position. To achieve this, the knob is rotated by 90° degrees after being retracted. A notch keeps the plunger in this position.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)



GN 817.9

Description	d1 Pin -0.02/-0.05 Bore +0.10/+0.03	l1	l2	b	d2	d3	d4	d5	d6	k	l3	l4	l5	l6	l7	l8	t	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 817.9-7-6-B	7	6	8	13	4.3	23	5	M 3	34	22	20	48	22	6	31	17.6	7	6.5	19	47
GN 817.9-7-9-B	7	9	11	13	4.3	23	5	M 3	34	22	20	48	22	6	27.5	21.1	7	6	25	48
GN 817.9-8-8-B	8	8	10	16	5.3	28	6	M 4	38	26	25	58	26	8	39	20.6	8	8.5	26	78
GN 817.9-8-12-B	8	12	14	16	5.3	28	6	M 4	38	26	25	58	26	8	34	25.6	8	8.5	28	79
GN 817.9-10-12-B	10	12	14	16	5.3	28	7.5	M 4	38	26	30	58	26	8	39.2	25.4	8	9.5	38	85
GN 817.9-7-6-C	7	6	8	13	4.3	23	5	M 3	34	22	20	48	22	6	31	17.6	7	6.5	19	49
GN 817.9-7-9-C	7	9	11	13	4.3	23	5	M 3	34	22	20	48	22	6	27.5	21.1	7	6	25	50
GN 817.9-8-8-C	8	8	10	16	5.3	28	6	M 4	38	26	25	58	26	8	39.	20.6	8	8.5	26	81
GN 817.9-8-12-C	8	12	14	16	5.3	28	6	M 4	38	26	25	58	26	8	34	25.6	8	8.5	28	82
GN 817.9-10-12-C	10	12	14	16	5.3	28	7.5	M 4	38	26	30	58	26	8	39.5	25.4	8	9.5	38	90

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Indexing plungers

Steel / Stainless Steel, with and without rest position

SPECIFICATION

Types

- Type **A**: withl lifting ring, without lock nut
- Type **AK**: with lifting ring, with lock nut
- Type **B**: without rest position (Knob), without lock nut
- Type **BK**: without rest position (Knob), with lock nut
- Type **C**: with rest position (Knob), without lock nut
- Type **CK**: with rest position (Knob), with lock nut
- Type **D**: with wire loop, without lock nut
- Type **DK**: with wire loop, with lock nut

Threaded body

- Version in Steel zinc plated, blue passivated **ST**
- Version in Stainless Steel AISI 303 **NI**

Plunger
Stainless Steel AISI 303

Spring
Stainless Steel AISI 301

Lifting ring / Wire loop
Stainless Steel AISI 301

Knob Plastic (Polyamide PA)

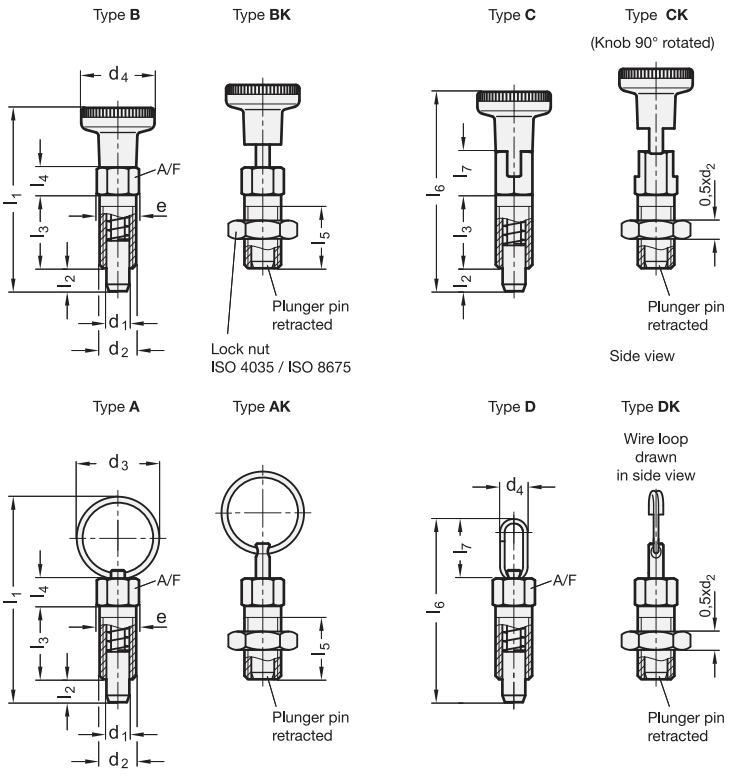
- black, matt
- not removable

INFORMATION

GN 717 Indexing plungers are characterized by small dimensions. These indexing plungers are universally applicable due to their prevention of misalignments and positioning errors of the mating indexing bores.
The type C / CK with rest position are used for such applications where the plunger has to stay in its retracted position.
During assembly, the max. tightening torques shown in the table should not be exceeded when securing the lock nut.
- Range of indexing plungers (see page 738)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)



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*Complete with Material of the Indexing plungers (ST or NI)

ST Steel

NI Stainless Steel

GN 717

Description	d1 Bore +0.03/+0.08 Plunger 0.05	d2	d3	d4	e	l1	l2	l3	l4	l5 min.	l6	l7	A/F	Max. tightening torque in Nm	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 717-3-M6-A-*	3	M 6	14	-	6.9	-	3.5	12	4.5	10	-	-	6	2	3	12	5
GN 717-3-M6x0,75-A-*	3	M 6 x 0.75	14	-	6.9	-	3.5	12	4.5	10	-	-	6	3	3	12	5
GN 717-4-M6-A-*	4	M 6	14	-	6.9	-	4	12	4.5	10	-	-	6	2	3	12	5
GN 717-4-M8x1-A-*	4	M 8 x 1	14	-	9.2	-	4.5	16	6	13.5	-	-	8	8	5	24	10
GN 717-5-M8-A-*	5	M 8	18	-	9.2	-	5	16	6	13.5	-	-	8	7	5	24	9
GN 717-5-M8x1-A-*	5	M 8 x 1	18	-	9.2	-	5	16	6	13.5	-	-	8	7	5	24	14
GN 717-5-M10x1-A-*	5	M 10 x 1	18	-	11.5	-	5	16	6	13.5	-	-	10	22	5	24	14
GN 717-6-M10-A-*	6	M 10	24	-	11.5	-	6	20	7.5	17	-	-	10	15	5	21	18
GN 717-6-M12x1,5-A-*	6	M 12 x 1.5	24	-	13.8	-	6	20	7.5	16.5	-	-	12	38	5	21	24
GN 717-8-M12-A-*	8	M 12	30	-	13.8	-	8	24	9	20.5	-	-	12	20	6	22	31
GN 717-8-M12x1,5-A-*	8	M 12 x 1.5	30	-	13.8	-	8	24	9	20.5	-	-	12	20	6	22	33
GN 717-8-M16x1,5-A-*	8	M 16 x 1.5	30	-	19.6	-	8	24	9	20.5	-	-	17	80	6	22	55
GN 717-10-M16x1,5-A-*	10	M 16 x 1.5	30	-	19.6	-	10	26	9	22.5	-	-	17	80	4	25	56
GN 717-3-M6-AK-*	3	M 6	14	-	6.9	-	3.5	12	4.5	10	-	-	6	2	3	12	3
GN 717-3-M6x0,75-AK-*	3	M 6 x 0.75	14	-	6.9	-	3.5	12	4.5	10	-	-	6	3	3	12	6
GN 717-4-M6-AK-*	4	M 6	14	-	6.9	-	4	12	4.5	10	-	-	6	2	3	12	6
GN 717-4-M8x1-AK-*	4	M 8 x 1	18	-	9.2	-	4.5	16	6	13.5	-	-	8	8	5	24	12
GN 717-5-M8-AK-*	5	M 8	18	-	9.2	-	5	16	6	13.5	-	-	8	7	5	24	12
GN 717-5-M8x1-AK-*	5	M 8 x 1	18	-	9.2	-	5	16	6	13.5	-	-	8	7	5	24	14
GN 717-5-M10x1-AK-*	5	M 10 x 1	18	-	11.5	-	5	16	6	13.5	-	-	10	22	5	24	19
GN 717-6-M10-AK-*	6	M 10	24	-	11.5	-	6	20	7.5	17	-	-	10	15	5	21	23
GN 717-6-M12x1,5-AK-*	6	M 12 x 1.5	24	-	13.8	-	6	20	7.5	16.5	-	-	12	38	5	21	31
GN 717-8-M12-AK-*	8	M 12	30	-	13.8	-	8	24	9	20.5	-	-	12	20	6	22	39
GN 717-8-M12x1,5-AK-*	8	M 12 x 1.5	30	-	13.8	-	8	24	9	20.5	-	-	12	20	6	22	40
GN 717-8-M16x1,5-AK-*	8	M 16 x 1.5	30	-	19.6	-	8	24	9	20.5	-	-	17	80	6	22	71
GN 717-10-M16x1,5-AK-*	10	M 16 x 1.5	30	-	19.6	-	10	26	9	22.5	-	-	17	80	4	25	81
GN 717-3-M6-B-*	3	M 6	-	12	6.9	30	3.5	12	4.5	10	-	-	6	2	3	12	4
GN 717-3-M6x0,75-B-*	3	M 6 x 0.75	-	12	6.9	30	3.5	12	4.5	10	-	-	6	3	3	12	5
GN 717-4-M6-B-*	4	M 6	-	12	6.9	30.5	4	12	4.5	10	-	-	6	2	3	12	5
GN 717-4-M8x1-B-*	4	M 8 x 1	-	16	9.2	39.5	4.5	16	6	13.5	-	-	8	8	5	24	10
GN 717-5-M8-B-*	5	M 8	-	16	9.2	40	5	16	6	13.5	-	-	8	7	5	24	10
GN 717-5-M8x1-B-*	5	M 8 x 1	-	16	9.2	40	5	16	6	13.5	-	-	8	7	5	24	10
GN 717-5-M10x1-B-*	5	M 10 x 1	-	18	11.5	42.5	5	16	6	13.5	-	-	10	22	5	24	15
GN 717-6-M10-B-*	6	M 10	-	18	11.5	49	6	20	7.5	17	-	-	10	15	5	21	19
GN 717-6-M12x1,5-B-*	6	M 12 x 1.5	-	21	13.8	52	6	20	7.5	16.5	-	-	12	38	5	21	27
GN 717-8-M12-B-*	8	M 12	-	21	13.8	59	8	24	9	20.5	-	-	12	20	6	22	32
GN 717-8-M12x1,5-B-*	8	M 12 x 1.5	-	21	13.8	59	8	24	9	20.5	-	-	12	20	6	22	33
GN 717-8-M16x1,5-B-*	8	M 16 x 1.5	-	25	19.6	63.5	8	24	9	20.5	-	-	17	80	6	22	55
GN 717-10-M16x1,5-B-*	10	M 16 x 1.5	-	25	19.6	67.5	10	26	9	22.5	-	-	17	80	4	25	19
GN 717-3-M6-BK-*	3	M 6	-	12	6.9	30	3.5	12	4.5	10	-	-	6	2	3	12	6
GN 717-3-M6x0,75-BK-*	3	M 6 x 0.75	-	12	6.9	30	3.5	12	4.5	10	-	-	6	3	3	12	6
GN 717-4-M6-BK-*	4	M 6	-	12	6.9	30.5	4	12	4.5	10	-	-	6	2	3	12	6
GN 717-4-M8x1-BK-*	4	M 8 x 1	-	16	9.2	39.5	4.5	16	6	13.5	-	-	8	8	5	24	13
GN 717-5-M8-BK-*	5	M 8	-	16	9.2	40	5	16	6	13.5	-	-	8	7	5	24	13
GN 717-5-M8x1-BK-*	5	M 8 x 1	-	16	9.2	40	5	16	6	13.5	-	-	8	7	5	24	13
GN 717-5-M10x1-BK-*	5	M 10 x 1	-	18	11.5	42.5	5	16	6	13.5	-	-	10	22	5	24	21
GN 717-6-M10-BK-*	6	M 10	-	18	11.5	49	6	20	7.5	17	-	-	10	15	5	21	24
GN 717-6-M12x1,5-BK-*	6	M 12 x 1.5	-	21	13.8	52	6	20	7.5	16.5	-	-	12	38	5	21	36
GN 717-8-M12-BK-*	8	M 12	-	21	13.8	59	8	24	9	20.5	-	-	12	20	6	22	41
GN 717-8-M12x1,5-BK-*	8	M 12 x 1.5	-	21	13.8	59	8	24	9	20.5	-	-	12	20	6	22	44
GN 717-8-M16x1,5-BK-*	8	M 16 x 1.5	-	25	19.6	63.5	8	24	9	20.5	-	-	17	80	6	22	71
GN 717-10-M16x1,5-BK-*	10	M 16 x 1.5	-	25	19.6	67.5	10	26	9	22.5	-	-	17	80	4	25	67

Weight ST

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GN 717

Indexing plungers

*Complete with Material of the Indexing plungers (ST or NI)

ST Steel
NI Stainless Steel

GN 717

Description	d1 Bore +0.03/+0.08 Plunger 0.05	d2	d3	d4	e	l1	l2	l3	l4	l5 min.	l6	l7	A/F	Max. tigh-tening torque in Nm	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 717-3-M6-C-*	3	M 6	-	12	6.9	-	3.5	12	-	10	32.5	7	6	2	3	12	5
GN 717-3-M6x0,75-C-*	3	M 6 x 0.75	-	12	6.9	-	3.5	12	-	10	32.5	7	6	3	3	12	6
GN 717-4-M6-C-*	4	M 6	-	12	6.9	-	4	12	-	10	33	7	6	2	3	12	5
GN 717-4-M8x1-C-*	4	M 8 x 1	-	16	9.2	-	4.5	16	-	13.5	43	9.5	8	8	5	24	11
GN 717-5-M8-C-*	5	M 8	-	16	9.2	-	5	16	-	13.5	43.5	9.5	8	7	5	24	11
GN 717-5-M8x1-C-*	5	M 8 x 1	-	16	9.2	-	5	16	-	13.5	43.5	9.5	8	7	5	24	11
GN 717-5-M10x1-C-*	5	M 10 x 1	-	18	11.5	-	5	16	-	13.5	46	9.5	10	22	5	24	17
GN 717-6-M10-C-*	6	M 10	-	18	11.5	-	6	20	-	17	52	10.5	10	15	5	21	19
GN 717-6-M12x1,5-C-*	6	M 12 x 1.5	-	21	13.8	-	6	20	-	16.5	55	10.5	12	38	5	21	28
GN 717-8-M12-C-*	8	M 12	-	21	13.8	-	8	24	-	20.5	63.5	13.5	12	20	6	22	33
GN 717-8-M12x1,5-C-*	8	M 12 x 1.5	-	21	13.8	-	8	24	-	20.5	63.5	13.5	12	20	6	22	34
GN 717-8-M16x1,5-C-*	8	M 16 x 1.5	-	25	19.6	-	8	24	-	20.5	68	13.5	17	80	6	22	60
GN 717-10-M16x1,5-C-*	10	M 16 x 1.5	-	25	19.6	-	10	26	-	22.5	72.5	14	17	80	4	25	66
GN 717-3-M6-CK-*	3	M 6	-	12	6.9	-	3.5	12	-	10	32.5	7	6	2	3	12	7
GN 717-3-M6x0,75-CK-*	3	M 6 x 0,75	-	12	6.9	-	3.5	12	-	10	32.5	7	6	3	3	12	7
GN 717-4-M6-CK-*	4	M 6	-	12	6.9	-	4	12	-	10	33	7	6	2	3	12	6
GN 717-4-M8x1-CK-*	4	M 8 x 1	-	16	9.2	-	4.5	16	-	13.5	43	9.5	8	8	5	24	13
GN 717-5-M8-CK-*	5	M 8	-	16	9.2	-	5	16	-	13.5	43.5	9.5	8	7	5	24	14
GN 717-5-M8x1-CK-*	5	M 8 x 1	-	16	9.2	-	5	16	-	13.5	43.5	9.5	8	7	5	24	14
GN 717-5-M10x1-CK-*	5	M 10 x 1	-	18	11.5	-	5	16	-	13.5	46	9.5	10	22	5	24	20
GN 717-6-M10-CK-*	6	M 10	-	18	11.5	-	6	20	-	17	52	10.5	10	15	5	21	24
GN 717-6-M12x1,5-CK-*	6	M 12 x 1.5	-	21	13.8	-	6	20	-	16.5	55	10.5	12	38	5	21	36
GN 717-8-M12-CK-*	8	M 12	-	21	13.8	-	8	24	-	20.5	63.5	13.5	12	20	6	22	57
GN 717-8-M12x1,5-CK-*	8	M 12 x 1.5	-	21	13.8	-	8	24	-	20.5	63.5	13.5	12	20	6	22	23
GN 717-8-M16x1,5-CK-*	8	M 16 x 1.5	-	25	19.6	-	8	24	-	20.5	68	13.5	17	80	6	22	81
GN 717-10-M16x1,5-CK-*	10	M 16 x 1.5	-	25	19.6	-	10	26	-	22.5	72.5	14	17	80	4	25	84
GN 717-3-M6-D-*	3	M 6	-	6	6.9	-	3.5	12	-	10	32.7	12.9	6	2	3	12	5
GN 717-3-M6x0,75-D-*	3	M 6 x 0.75	-	6	6.9	-	3.5	12	-	10	32.7	12.9	6	3	3	12	6
GN 717-4-M6-D-*	4	M 6	-	6	6.9	-	4	12	-	10	33.2	12.9	6	2	3	12	5
GN 717-4-M8x1-D-*	4	M 8 x 1	-	6	9.2	-	4.5	16	-	13.5	42.5	15.5	8	8	5	24	11
GN 717-5-M8-D-*	5	M 8	-	7.2	9.2	-	5	16	-	13.5	42.5	15.5	8	7	5	24	11
GN 717-5-M8x1-D-*	5	M 8 x 1	-	7.2	9.2	-	5	16	-	13.5	42.5	15.5	8	7	5	24	11
GN 717-5-M10x1-D-*	5	M 10 x 1	-	7.2	11.5	-	5	16	-	13.5	42.5	15.5	10	22	5	24	17
GN 717-6-M10-D-*	6	M 10	-	9.5	11.5	-	6	20	-	17	54.4	15.5	10	15	5	21	19
GN 717-6-M12x1,5-D-*	6	M 12 x 1.5	-	9.5	13.8	-	6	20	-	16.5	54.4	20.9	12	38	5	21	28
GN 717-8-M12-D-*	8	M 12	-	11.8	13.8	-	8	24	-	20.5	67.2	20.9	12	20	6	22	33
GN 717-8-M12x1,5-D-*	8	M 12 x 1.5	-	11.8	13.8	-	8	24	-	20.5	67.2	20.9	12	20	6	22	33
GN 717-8-M16x1,5-D-*	8	M 16 x 1.5	-	11.8	19.6	-	8	24	-	20.5	67.2	25.9	17	80	6	22	52
GN 717-10-M16x1,5-D-*	10	M 16 x 1.5	-	11.8	19.6	-	10	26	-	22.5	70.9	25.9	17	80	4	25	66
GN 717-3-M6-DK-*	3	M 6	-	6	6.9	-	3.5	12	-	10	32.7	12.9	6	2	3	12	7
GN 717-3-M6x0,75-DK-*	3	M 6 x 0,75	-	6	6.9	-	3.5	12	-	10	32.7	12.9	6	3	3	12	7
GN 717-4-M6-DK-*	4	M 6	-	6	6.9	-	4	12	-	10	32.7	12.9	6	2	3	12	6
GN 717-4-M8x1-DK-*	4	M 8 x 1	-	7.2	9.2	-	4.5	16	-	13.5	42.5	15.5	8	8	5	24	13
GN 717-5-M8-DK-*	5	M 8	-	7.2	9.2	-	5	16	-	13.5	42.5	15.5	8	7	5	24	14
GN 717-5-M8x1-DK-*	5	M 8 x 1	-	7.2	9.2	-	5	16	-	13.5	42.5	15.5	8	7	5	24	14
GN 717-5-M10x1-DK-*	5	M 10 x 1	-	7.2	11.5	-	5	16	-	13.5	42.5	15.5	10	22	5	24	20
GN 717-6-M10-DK-*	6	M 10	-	9.5	11.5	-	6	20	-	17	54.5	20.9	10	15	5	21	24
GN 717-6-M12x1,5-DK-*	6	M 12 x 1.5	-	9.5	13.8	-	6	20	-	16.5	54.4	20.9	12	38	5	21	36
GN 717-8-M12-DK-*	8	M 12	-	11.8	13.8	-	8	24	-	20.5	67.2	25.9	12	20	6	22	43
GN 717-8-M12x1,5-DK-*	8	M 12 x 1.5	-	11.8	13.8	-	8	24	-	20.5	67.2	25.9	12	20	6	22	64
GN 717-8-M16x1,5-DK-*	8	M 16 x 1.5	-	11.8	19.6	-	8	24	-	20.5	67.2	25.9	17	80	6	22	81
GN 717-10-M16x1,5-DK-*	10	M 16 x 1.5	-	11.8	19.6	-	10	26	-	22.5	70.9	25.9	17	80	4	25	84

Weight ST

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GN 7017

Indexing plungers

Steel / Stainless Steel, with lever, with and without rest position

SPECIFICATION

Types

- Type **B**: without rest position, without locknut
- Type **BK**: without rest position, with locknut
- Type **C**: with rest position, without locknut
- Type **CK**: with rest position, with locknut

- Version in Steel zinc plated, blue passivated **ST**
- Version in Stainless Steel AISI 303 **NI**

Spring
Stainless Steel AISI 301

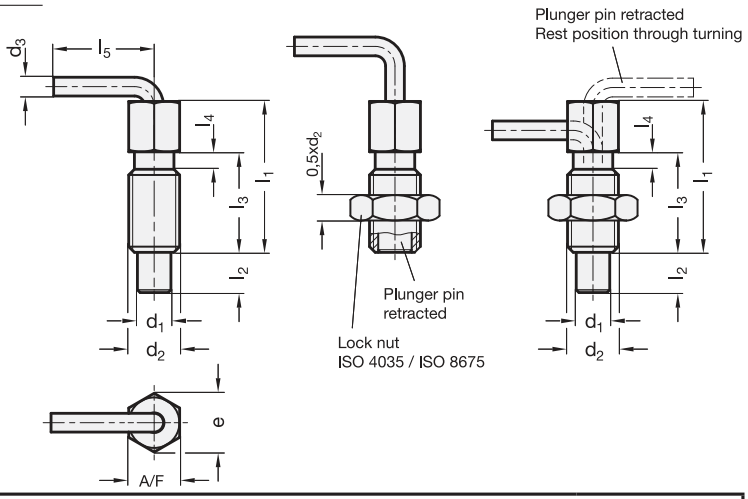
INFORMATION

GN 7017 indexing plungers are activated through a lever and are characterized by small dimensions. These indexing plungers are universally applicable due to their prevention of misalignments and positioning errors of the mating indexing bores.
The type C / CK with rest position are used for such applications where the plunger has to stay in its retracted position.
During assembly, the max. tightening torques shown in the table should not be exceeded when securing the lock nut
- Range of indexing plungers (see page 738)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Load rating information (see page A42)

Type **B** Type **BK** Type **C / CK**



*Complete with type index of the Indexing plungers (B, BK, C or CK)

B **BK** **C** **CK**

GN 7017

Description	d1 Bore +0.03/+0.08 Pin h11	d2	d3	e	l1	l2 min.	l3	l4	l5 min.	A/F	Max. tigh-tening torque in Nm	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 7017-4-M6-*-ST	4	M 6	2.5	6.9	32	9.5	20	2.5	16	6	1.6	3	10	6
GN 7017-5-M8-*-ST	5	M 8	3	9.2	42	12	27	3.1	19.5	8	4.5	3.5	13.5	18
GN 7017-6-M10-*-ST	6	M 10	3.5	11.5	51	14	33.5	3.7	24	10	10	4	16	30
GN 7017-8-M12-*-ST	8	M 12	5	13.8	54	19	31.8	4.3	32	12	13	4	22	46
GN 7017-10-M16-*-ST	10	M 16	5	19.6	77.5	25	50.5	5	33.5	16	42	4	23	110

GN 7017-NI

STAINLESS STEEL

Description	d1 Bore +0.03/+0.08 Pin h11	d2	d3	e	l1	l2 min.	l3	l4	l5 min.	A/F	Max. tigh-tening torque in Nm	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 7017-4-M6-*-NI	4	M 6	2.5	6.9	32	9.5	20	2.5	16	6	1.6	3	10	22
GN 7017-5-M8-*-NI	5	M 8	3	9.2	42	12	27	3.1	19.5	8	4.5	3.5	13.5	30
GN 7017-6-M10-*-NI	6	M 10	3.5	11.5	51	14	33.5	3.7	24	10	10	4	16	38
GN 7017-8-M12-*-NI	8	M 12	5	13.8	54	19	31.8	4.3	32	12	13	4	22	39
GN 7017-10-M16-*-NI	10	M 16	5	19.6	77.5	25	50.5	5	33.5	16	42	4	23	70

Weight type B

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Indexing plungers

Steel / Stainless Steel, with and without rest position

SPECIFICATION

Types

- Type **A**: without rest position, without lock nut
- Type **AK**: without rest position, with lock nut
- Type **C**: with rest position, without lock nut
- Type **CK**: with rest position, with lock nut

Guide (Threaded socket)
Version in Steel **ST**
blackened

Guide (Threaded socket)
Version in Stainless Steel AISI 303 **NI**

Pin
Stainless Steel AISI 303
chemically nickel plated

Spring / Lifting ring
Stainless Steel AISI 301

INFORMATION

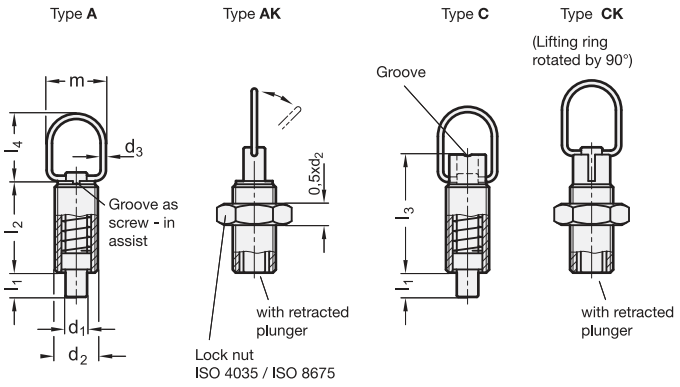
Owing to its shape, the lifting ring of the indexing plungers GN 413 can be used both as a screw-in assist during assembly or as indexing lock (Type C / Type CK).
Indexing plungers with rest position are used when the indexing pin is temporarily not allowed to protrude. After the pin is pulled in, turn the pull ring by 90°. The ring is held in position by an indexing notch.

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Load rating information (see page A42)

*Complete with type index of the Indexing plungers (A, AK, C or CK)

A **AK** **C** **CK**



GN 413

Description	d_1 Pin -0.05/-0.10 Bore H7	d_2	d_3	l_1 min.	l_2	l_3	l_4	m	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 413-5-M10-*-ST	5	M 10	1.5	5	22	28	23	18	5	15	11
GN 413-5-M10x1-*-ST	5	M 10 x 1	1.5	5	22	28	23	18	5	15	12
GN 413-6-M12-*-ST	6	M 12	2	6	24	31	25	22	6	21	18
GN 413-6-M12x1,5-*-ST	6	M 12 x 1.5	2	6	24	31	25	22	6	21	18
GN 413-8-M16-*-ST	8	M 16	2	9	34	44	25	22	7	27	45
GN 413-8-M16x1,5-*-ST	8	M 16 x 1.5	2	9	34	44	25	22	7	27	45
GN 413-10-M16-*-ST	10	M 16	2	9	34	44	25	22	7	27	47
GN 413-10-M16x1,5-*-ST	10	M 16 x 1.5	2	9	34	44	25	22	7	27	47

GN 413-NI

STAINLESS STEEL

Description	d_1 Pin -0.05/-0.10 Bore H7	d_2	d_3	l_1 min.	l_2	l_3	l_4	m	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 413-5-M10-*-NI	5	M 10	1.5	5	22	28	23	18	5	15	11
GN 413-5-M10x1-*-NI	5	M 10 x 1	1.5	5	22	28	23	18	5	15	12
GN 413-6-M12-*-NI	6	M 12	2	6	24	31	25	22	6	21	18
GN 413-6-M12x1,5-*-NI	6	M 12 x 1.5	2	6	24	31	25	22	6	21	18
GN 413-8-M16-*-NI	8	M 16	2	9	34	44	25	22	7	27	42
GN 413-8-M16x1,5-*-NI	8	M 16 x 1.5	2	9	34	44	25	22	7	27	45
GN 413-10-M16-*-NI	10	M 16	2	9	34	44	25	22	7	27	47
GN 413-10-M16x1,5-*-NI	10	M 16 x 1.5	2	9	34	44	25	22	7	27	47

Weight type A

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GN 607

Indexing plungers

Steel / Stainlees Steel, without rest position

SPECIFICATION

Types

- Type **A**: without lock nut
- Type **AK**: with lock nut

Version in Steel ST

- blackened
- Pin hardened

Version in Stainless Steel AISI 303 NI

Pin chemically nickel plated

Knob
Plastic (Polyamide PA)

- black, matt
- not removable

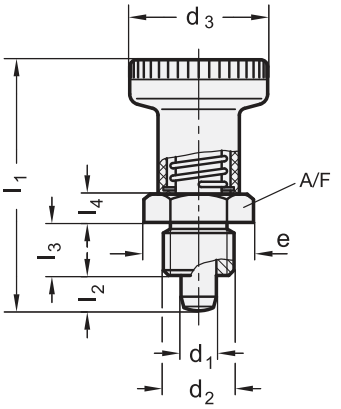
INFORMATION

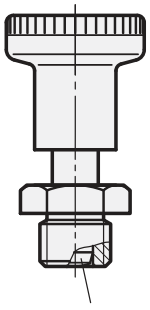
Indexing plungers GN 607 are distinguished for their small dimensions. The extremely low luck nuts GN 909 (see page 809) / GN 909.5 (see page 809) enlarge the mounting options.

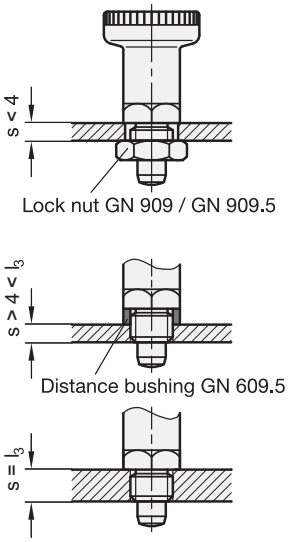
- Range of indexing plungers (see page 738)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)
- Load rating information (see page A42)







GN 607

Description	d1 Pin -0.02/-0.05 Bore H7	d2	d3	e ≈	l1	l2 ±0.5	l3 -0.15	l4	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	Axial load in N	⚖
GN 607-6-A-ST	6	M 12 x 1.5	25	19.6	45	6	10	5	17	11	28	400	34
GN 607-8-A-ST	8	M 16 x 1.5	31	21.9	54	8	12	6	19	15	29	500	61
GN 607-6-AK-ST	6	M 12 x 1.5	25	19.6	45	6	10	5	17	11	28	400	40
GN 607-8-AK-ST	8	M 16 x 1.5	31	21.9	54	8	12	6	19	15	29	500	62

GN 607-NI STAINLESS STEEL

Description	d1 Pin -0.02/-0.05 Bore H7	d2	d3	e ≈	l1	l2 ±0.5	l3 -0.15	l4	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	Axial load in N	⚖
GN 607-6-A-NI	6	M 12 x 1.5	25	19.6	45	6	10	5	17	9	25	400	40
GN 607-8-A-NI	8	M 16 x 1.5	31	21.9	54	8	12	6	19	13	26	500	60
GN 607-6-AK-NI	6	M 12 x 1.5	25	19.6	45	6	10	5	17	9	25	400	43
GN 607-8-AK-NI	8	M 16 x 1.5	31	21.9	54	8	12	6	19	13	26	500	70

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Indexing plungers

Steel / Stainless Steel, with rest position

SPECIFICATION

Types

- Type **A**: without lock nut
- Type **AK**: with lock nut

Version in Steel ST

- blackened
- Pin hardened

Version in Stainless Steel AISI 303 NI

Pin chemically nickel plated

Knob
Plastic (Polyamide PA)

- black, matt
- not removable

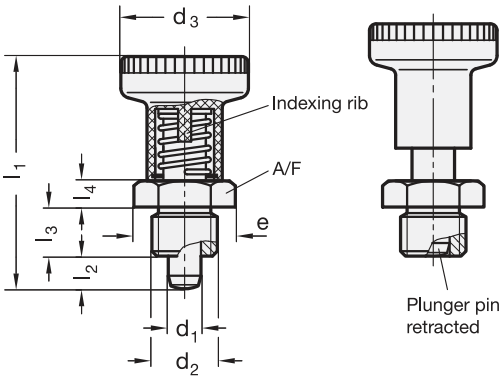
INFORMATION

Indexing plungers GN 607.1 with rest position are used for such applications where the plunger has to stay in its rectracted position. To achieve this, the knob is roated by 90° degrees after being rectracted. A notch keept the plunger in this position.
Indexing plungers GN 607.1 are distinguished for their small dimensions. The extremely low luck nuts GN 909 (see page 809) / GN 909.5 (see page 809) enlarge the mounting options. The locking tab is an integral part of the knob thus giving reliable operations at all times.

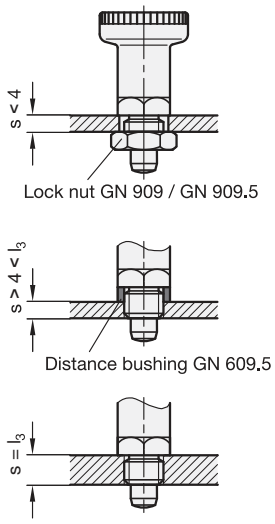
- Range of indexing plungers (see page 738)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)
- Load rating information (see page A42)



Assembly examples



GN 607.1

Description	d1 Pin -0.02/-0.05 Bore H7	d2	d3	e ≈	l1	l2 ±0.5	l3 -0.15	l4	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	Axial load in N	⚖
GN 607.1-6-A-ST	6	M 12 x 1.5	25	19.6	45	6	10	5	17	11	28	400	34
GN 607.1-8-A-ST	8	M 16 x 1.5	31	21.9	54	8	12	6	19	15	29	500	59
GN 607.1-6-AK-ST	6	M 12 x 1.5	25	19.6	45	6	10	5	17	11	28	400	39
GN 607.1-8-AK-ST	8	M 16 x 1.5	31	21.9	54	8	12	6	19	15	29	500	69

GN 607.1-NI STAINLESS STEEL

Description	d1 Pin -0.02/-0.05 Bore H7	d2	d3	e ≈	l1	l2 ±0.5	l3 -0.15	l4	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	Axial load in N	⚖
GN 607.1-6-A-NI	6	M 12 x 1.5	25	19.6	45	6	10	5	17	9	25	400	34
GN 607.1-8-A-NI	8	M 16 x 1.5	31	21.9	54	8	12	6	19	13	26	500	50
GN 607.1-6-AK-NI	6	M 12 x 1.5	25	19.6	45	6	10	5	17	9	25	400	42
GN 607.1-8-AK-NI	8	M 16 x 1.5	31	21.9	54	8	12	6	19	13	26	500	78

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GN 607.2

Indexing plungers

for installation in thin walled equipment, without rest position

SPECIFICATION

Guide Steel **ST**
zinc plated, blue passivated

Pin Stainless Steel AISI 303
chemically nickel plated

Knob Plastic (Polyamide PA)

- black, matt
- not removable

INFORMATION

Indexing plungers GN 607.2 have been developed for installation in thin walled equipment.
It has to be taken into consideration that, depending on the mounting plate thickness 's', the protruding plunger length 'l1' and the position of the hexagon nut on its centre bush, the plunger nose might not always be fully retractable.
For design reasons the positional accuracy of this indexing plunger is not as precise as plunger GN 607 (see page 769).

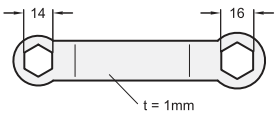
- Range of indexing plungers (see page 738)

TECHNICAL INFORMATION

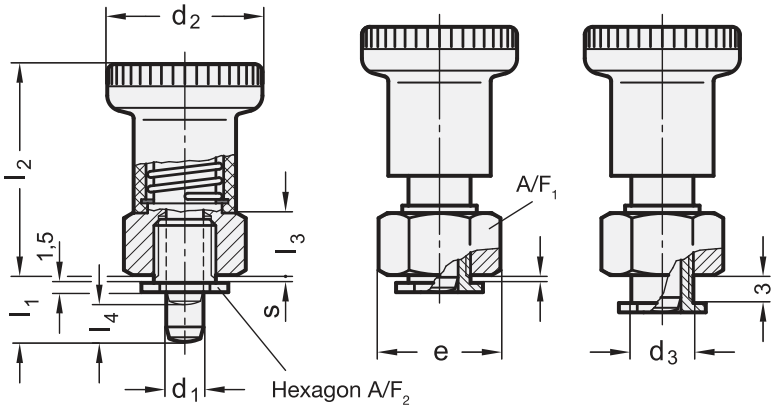
- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)
- Load rating information (see page A42)

ACCESSORY

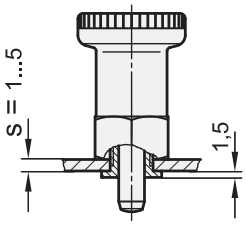
- Double ring spanner GN 607.9 -SW14-SW16 (assembling aid)



Plunger pin retracted



Assembly instruction



GN 607.2

Description	d1 Pin -0.02/-0.05 Bore G7	l1	d2	d3	e	l2	l3	l4	s	A/F 1	A/F 2	Spring load in N ≈ initial	Spring load in N ≈ end	Axial load in N	⚖
GN 607.2-6-8,5-ST	6	8.5	25	10	19.5	34	10	6	1 ... 5	17	14	9	25	400	40
GN 607.2-6-10,5-ST	6	10.5	25	10	19.5	34	10	6	1 ... 5	17	14	9	26	400	40
GN 607.2-8-10-ST	8	10	31	12	22	40	12	7.5	1 ... 5	19	16	13	25	500	62
GN 607.2-8-12-ST	8	12	31	12	22	40	12	7.5	1 ... 5	19	16	13	26	500	63

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GN 607.3

Indexing plungers

for installation in thin walled equipment, with rest position

SPECIFICATION

Guide Steel **ST**
zinc plated, blue passivated

Pin Stainless Steel AISI 303
chemically nickel plated

Knob Plastic (Polyamide PA)

- black, matt
- not removable

INFORMATION

Indexing plungers GN 607.3 have been developed for installation in thin walled equipment.
It has to be taken into consideration that, depending on the mounting plate thickness 's', the protruding plunger length 'l1' and the position of the hexagon nut on its centre bush, the plunger nose might not always be fully retractable.
For design reasons the positional accuracy of this indexing plunger is not as precise as plunger GN 607 (see page 769).
Indexing plungers with rest position are used for such applications where the plunger pin has to stay in its retracted position. To achieve this, the knob is rotated by 90° degrees after being retracted. A notch keeps the plunger in this position.

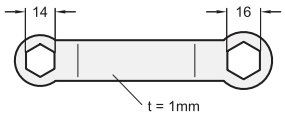
- Range of indexing plungers (see page 738)

TECHNICAL INFORMATION

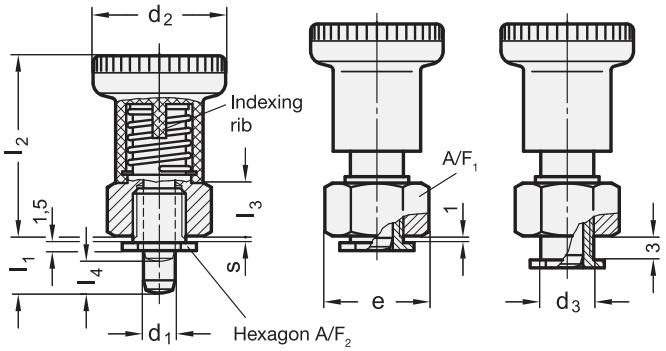
- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)
- Load rating information (see page A42)

ACCESSORY

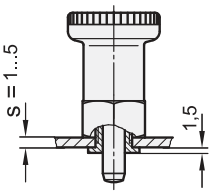
- Double ring spanner GN 607.9 -SW14-SW16 (assembling aid)



Plunger pin retracted



Assembly instruction



GN 607.3

Description	d1 Pin -0.02/-0.05 Bore G7	l1	d2	d3	e	l2	l3	l4	s	A/F 1	A/F 2	Spring load in N ≈ initial	Spring load in N ≈ end	Axial load in N	⚖
GN 607.3-6-8,5-ST	6	8.5	25	10	19.5	34	10	6	1 ... 5	17	14	9	25	400	39
GN 607.3-6-10,5-ST	6	10.5	25	10	19.5	34	10	6	1 ... 5	17	14	9	25	400	39
GN 607.3-8-10-ST	8	10	31	12	22	40	12	7.5	1 ... 5	19	16	13	26	500	62
GN 607.3-8-12-ST	8	12	31	12	22	40	12	7.5	1 ... 5	19	16	13	26	500	61

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GN 607.4

Indexing plungers

for welding, without rest position

SPECIFICATION

Steel **ST**

- blackened
- Pin hardened

Knob Plastic (Polyamide PA)

- black, matt
- not removable

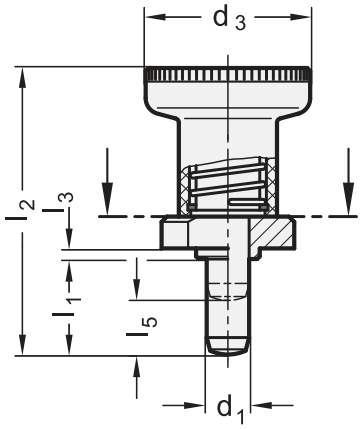
INFORMATION

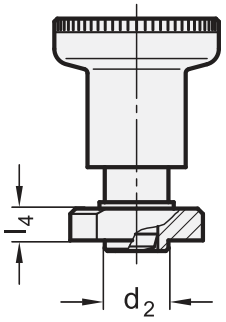
Indexing plungers GN 607.4 are designed for welded fixing, in particular for use in steel square tubings.
The lug d_2 is intended for positioning.
The plastic knob with the in-moulded indexing pin is driven on after the welding process.

- Range of indexing plungers (see page 738)

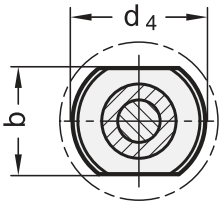
TECHNICAL INFORMATION

- Plastic characteristics (see page A2)

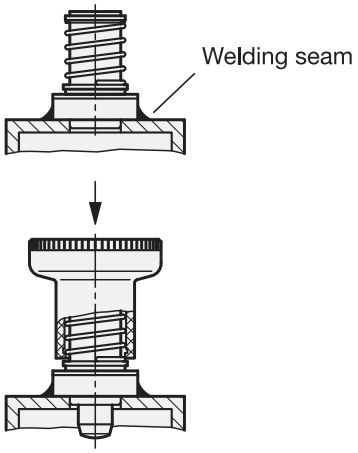




Plunger pin retracted
(if $l_1 = d_1$)



Assembly instruction



To prevent damage of the plastic knob, it will be driven onto the shaft using a plastic mallet, after the welding process.

GN 607.4

Description	d1 Pin -0.02/-0.05 Bore +0.30/+0.25	l1	b +0.3	d2 -0.02/-0.1	d3	d4	l2	l3	l4	l5	Spring load in N ≈ initial	Spring load in N ≈ end	Axial load in N	⚖
GN 607.4-6-6-ST	6	6	18	10	25	22	37	1.5	5.5	6	11	28	400	35
GN 607.4-6-14-ST	6	14	18	10	25	22	45	1.5	5.5	6	11	28	400	36
GN 607.4-8-8-ST	8	8	20	12	31	25	44	2	6.5	8	15	29	500	55
GN 607.4-8-18-ST	8	18	20	12	31	25	54	2	6.5	8	15	29	500	60

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Indexing plungers

for welding, with rest position

SPECIFICATION

Steel **ST**

- blackened
- Pin hardened

Knob Plastic (Polyamide PA)

- black, matt
- not removable

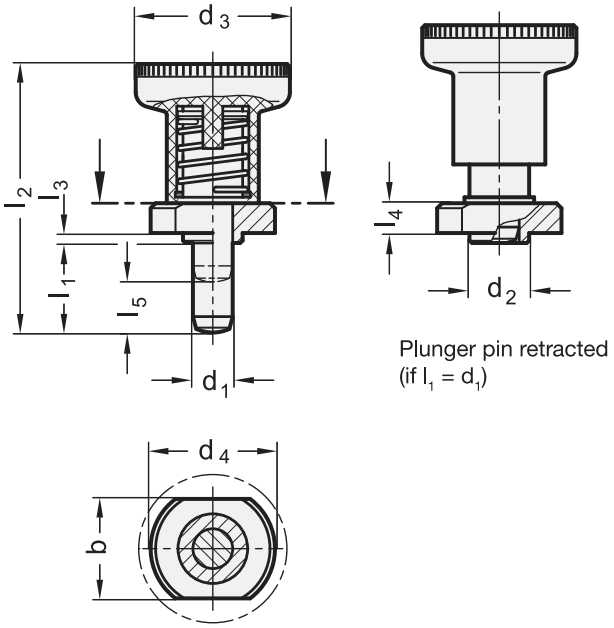
INFORMATION

Indexing plungers GN 607.5 with rest position are used in cases where the indexing pin is temporarily not allowed to protrude. After pulling out, the knob is turned by 90°.
A notch keeps the plunger in this position.
The GN 607.5 indexing plungers are intended for welded fixing, in particular for use in steel square tubings.
The lug d_2 is intended for positioning.
The plastic knob with the in-moulded indexing pin is driven on after the welding process.

- Range of indexing plungers (see page 738)

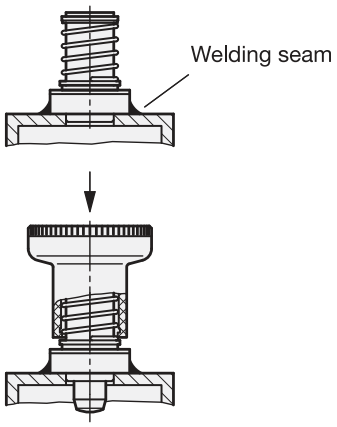
TECHNICAL INFORMATION

- Plastic characteristics (see page A2)
- Load rating information (see page A42)



Plunger pin retracted
(if $l_1 = d_1$)

Assembly instruction



To prevent damage of the plastic knob, it will be driven onto the shaft using a plastic mallet, after the welding process.

GN 607.5

Description	d1 Pin -0.02/-0.05 Bore +0.30/+0.25	l1	b	d2 -0.02/-0.1	d3	d4	l2	l3	l4	l5	Spring load in N ≈ initial	Spring load in N ≈ end	Axial load in N	⚖
GN 607.5-6-6-ST	6	6	18	10	25	22	37	1.5	5.5	6	9	25	400	34
GN 607.5-6-14-ST	6	14	18	10	25	22	45	1.5	5.5	6	9	25	400	36
GN 607.5-8-8-ST	8	8	20	12	31	25	44	2	6.5	8	13	26	500	54
GN 607.5-8-18-ST	8	18	20	12	31	25	54	2	6.5	8	13	26	500	62

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GN 822.6

Mini indexing plungers

with and without rest position

SPECIFICATION

Types

- Type **B**: without rest position
- Type **C**: with rest position

Guide Steel zinc plated, blue passivated

Pin
Stainless Steel AISI 303

Spring
Stainless Steel AISI 301

Knob Plastic (Polyamide PA)

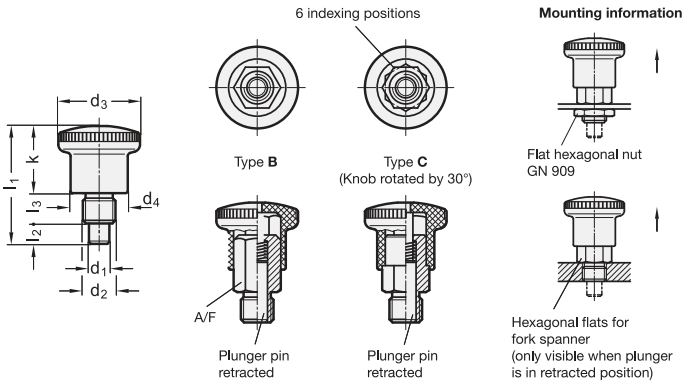
- black, matt
- not removable

INFORMATION

Mini indexing plungers GN 822.6 are distinguished for their small dimensions.
Based on the principle of the GN 822 (see page 780) mini indexing plungers, this model combines their clever type of construction with a complete series of all current sizes of bolts and threads. They provide a reasonably priced alternative to the GN 607 (see page 769) / GN 607.1 (see page 770) indexing plungers of the appropriate sizes.
To mount, first turn the mini indexing plunger in with the knurled button. Pulling the indexing pin will release the hexagon nut which can then be tightened with an open-end spanner.
They are inserted into position by holding them by the serrated knob. The spanner flats on the lock nut are revealed when retracting the pin, so that the mini indexing plunger can be easily tightened by means of a fork spanner.
In type C, the button can be turned by 30° after retracting the indexing pin, holding it in the "retraced" position using the indexing lock.
- Range of indexing plungers (see page 738)

ACCESSORY

Distance bushings GN 609.5 (see page 810) or flat hexagonal nuts GN 909 (see page 809) are to be ordered seperately.



*Complete with type index of the Mini indexing plungers (B or C)

B without rest position
C with rest position

GN 822.6

Description	d1 Bore +0.03/+0.08 Pin h9	d2	d3	d4	l1	l2 min.	l3	k	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 822.6-4-M8-*	4	M 8	21	15	27.5	5	6	16.5	10	4	12	14
GN 822.6-4-M8x1-*	4	M 8x1	21	15	27.5	5	6	16.5	10	4	12	14
GN 822.6-5-M10-*	5	M10	25	18	34	6	8	20	12	6	16	25
GN 822.6-5-M10x1-*	5	M 10x1	25	18	34	6	8	20	12	6	16	26
GN 822.6-6-M10-*	6	M10	25	18	34	6	8	20	12	6	16	40
GN 822.6-6-M10x1-*	6	M 10x1	25	18	34	6	8	20	12	6	16	42
GN 822.6-6-M12-*	6	M12	28	20	40.5	7	10	23.5	14	10	23	60
GN 822.6-6-M12x1,5-*	6	M12x1.5	28	20	40.5	7	10	23.5	14	10	23	67
GN 822.6-7-M12-*	7	M12	28	20	40.5	7	10	23.5	14	10	23	69
GN 822.6-7-M12x1,5-*	7	M12x1.5	28	20	40.5	7	10	23.5	14	10	23	70
GN 822.6-8-M16-*	8	M 16	33	23	47.5	10	12	25.5	17	11	35	71
GN 822.6-8-M16x1,5-*	8	M 16x1.5	33	23	47.5	10	12	25.5	17	11	35	72
GN 822.6-10-M16-*	10	M 16	33	23	47.5	10	12	25.5	17	11	35	75
GN 822.6-10-M16x1,5-*	10	M 16x1.5	33	23	47.5	10	12	25.5	17	11	35	76

Weight type B

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Indexing plungers

without rest position

SPECIFICATION

Guide
Zinc die casting
zinc plated, blue passivated

Knob
Plastic (Polyamide PA)

- black, matt
- not removable

Pin
Steel, hardened
Single components Steel / Brass

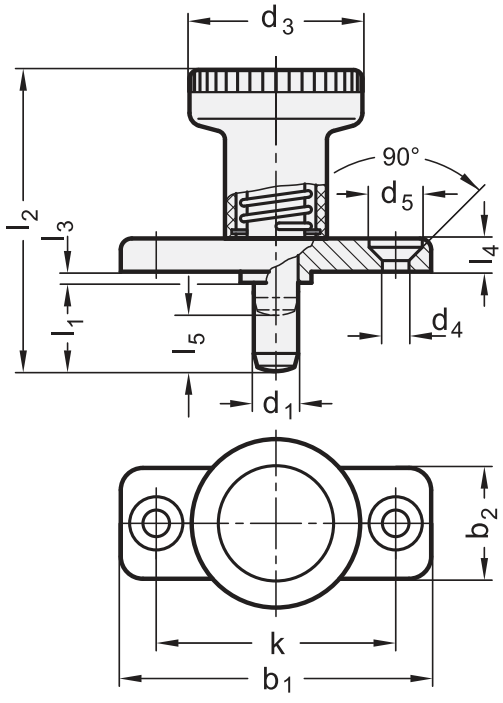
INFORMATION

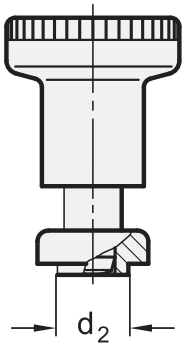
Indexing plungers GN 608 are distinguished for their small dimensions.

- Range of indexing plungers (see page 738)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)
- Load rating information (see page A42)





Plunger retracted
(if $l_1 = d_1$)

GN 608

Description	d1 Pin -0.02/-0.05 Bore H7	l1	b1	b2	d2 -0.02/-0.1	d3	d4	l3 -0.15	l4	l5	Spring load in N ≈ initial	Spring load in N ≈ end	Axial load in N	⚖
GN 608-6-6	6	6	40	18	10	25	4.3	2.5	4.5	6	9	25	400	36
GN 608-6-14	6	14	40	18	10	25	4.3	2.5	4.5	6	9	25	400	39
GN 608-8-8	8	8	46	20	12	31	5.3	2.5	4.5	8	13	26	500	59
GN 608-8-18	8	18	46	20	12	31	5.3	2.5	4.5	8	13	26	500	64

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GN 608.5

Indexing plungers with Stainless Steel-Plunger

without rest position

SPECIFICATION

Guide
Zinc die casting
zinc plated, blue passivated

Knob
Plastic (Polyamide PA)

- black, matt
- not removable

Pin Stainless Steel AISI 303
chemically nickel plated

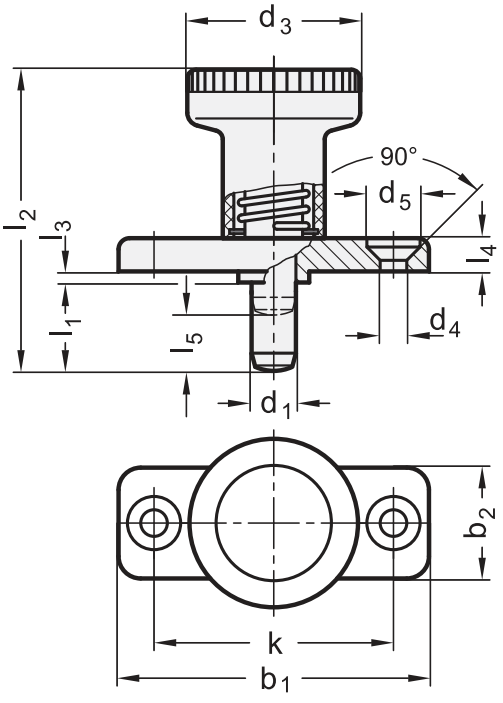
Single components Stainless Steel

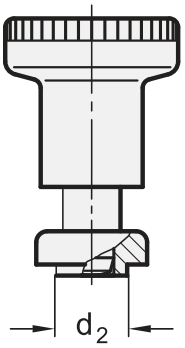
INFORMATION

Indexing plungers with Stainless Steel-Plunger GN 608.5 are distinguished for their small dimensions.
- Range of indexing plungers (see page 738)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)
- Load rating information (see page A42)





Plunger retracted
(if $l_1 = d_1$)

GN 608.5 **STAINLESS STEEL**

Description	d1 Pin -0.02/-0.05 Bore H7	l1	b1	b2	d2 -0.02/-0.1	d3	d4	l3 -0.15	l4	l5	Spring load in N ≈ initial	Spring load in N ≈ end	Axial load in N	⚖
GN 608.5-6-6	6	6	40	18	10	25	4.3	2.5	4.5	6	9	25	400	36
GN 608.5-6-14	6	14	40	18	10	25	4.3	2.5	4.5	6	9	25	400	38
GN 608.5-8-8	8	8	46	20	12	31	5.3	2.5	4.5	8	13	26	500	50
GN 608.5-8-18	8	18	46	20	12	31	5.3	2.5	4.5	8	13	26	500	59

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Indexing plungers

with rest position

SPECIFICATION

Guide
Zinc die casting
zinc plated, blue passivated

Knob
Plastic (Polyamide PA)

- black, matt
- not removable

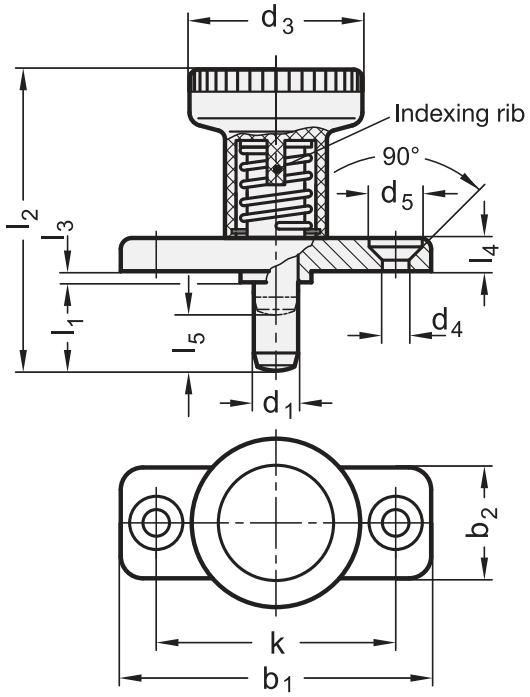
Pin
Steel, hardened
Single components Steel / Brass

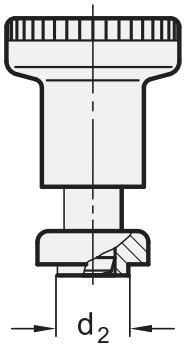
INFORMATION

Indexing plungers GN 608.1 with rest position are used for such applications where the plunger has to stay in its retracted position. To achieve this, the knob is rotated by 90° degrees after being retracted. A notch keeps the plunger in this position.
Indexing plungers GN 608.1 are distinguished for their small dimensions. The locking tab is integrated into the knob thus giving reliable operation at all times.
- Range of indexing plungers (see page 738)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Plastic characteristics (see page A2)
- Load rating information (see page A42)





Plunger retracted
(if $l_1 = d_1$)

GN 608.1

Description	d1 Pin -0.02/-0.05 Bore H7	l1	b1	b2	d2 -0.02/-0.1	d3	d4	d5	k	l2	l3 -0.15	l4	l5	Spring load in N ≈ initial	Spring load in N ≈ end	Axial load in N	⚖
GN 608.1-6-6	6	6	40	18	10	25	4.3	8.3	30	37	2.5	4.5	6	9	25	400	36
GN 608.1-6-14	6	14	40	18	10	25	4.3	8.3	30	45	2.5	4.5	6	9	25	400	38
GN 608.1-8-8	8	8	46	20	12	31	5.3	10.4	34	44	2.5	5.5	8	13	26	500	60
GN 608.1-8-18	8	18	46	20	12	31	5.3	10.4	34	54	2.5	5.5	8	13	26	500	62

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GN 608.6

Indexing plungers with Stainless Steel-Plunger

with rest position

SPECIFICATION

Guide
Zinc die casting
zinc plated, blue passivated

Knob Plastic (Polyamide PA)

- black, matt
- not removable

Pin Stainless Steel AISI 303
chemically nickel plated

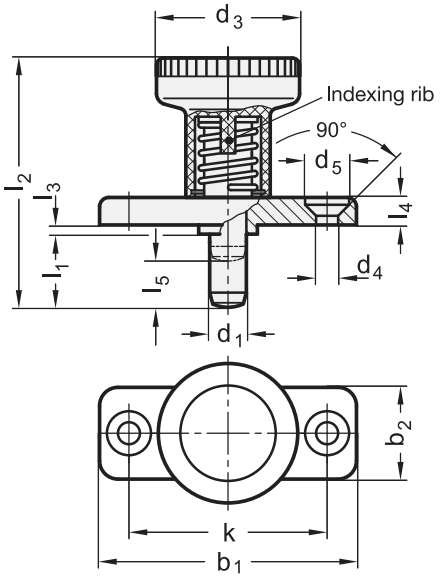
Single components Stainless Steel

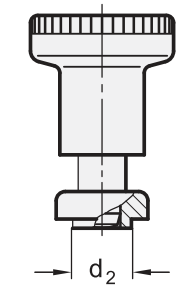
INFORMATION

Indexing plungers with Stainless Steel-Plunger GN 608.6 with rest position are used for such applications where the plunger has to stay in its retracted position. To achieve this, the knob is rotated by 90° degrees after being retracted. A notch keeps the plunger in this position.
Indexing plungers GN 608.6 are distinguished for their small dimensions. The locking tab is integrated into the knob thus giving reliable operation at all times.
- Range of indexing plungers (see page 738)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)
- Load rating information (see page A42)





Plunger retracted
(if $l_1 = d_1$)

GN 608.6 **STAINLESS STEEL**

Description	d1 Pin -0.02/-0.05 Bore H7	l1	b1	b2	d2 -0.02/-0.1	d3	d4	d5	k	l2	l3 -0.15	l4	l5	Spring load in N ≈ initial	Spring load in N ≈ end	Axial load in N	⚖
GN 608.6-6-6	6	6	40	18	10	25	4.3	8.3	30	37	2.5	4.5	6	9	25	400	30
GN 608.6-6-14	6	14	40	18	10	25	4.3	8.3	30	45	2.5	4.5	6	9	25	400	39
GN 608.6-8-8	8	8	46	20	12	31	5.3	10.4	34	44	2.5	5.5	8	13	26	500	58
GN 608.6-8-18	8	18	46	20	12	31	5.3	10.4	34	54	2.5	5.5	8	13	26	500	63

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Mini indexing plungers

Steel / Stainless Steel, Covered indexing mechanism, with and without rest position

SPECIFICATION

Types

- Type **B**: without rest position
- Type **C**: with rest position

Version in Steel ST

zinc plated, blue passivated

Version in Stainless Steel AISI 303 NI

Pin
Stainless Steel AISI 303

Spring
Stainless Steel AISI 301

Knob Plastic (Polyamide PA)

- black, matt
- red, RAL 3000 **RT**
- not removable

INFORMATION

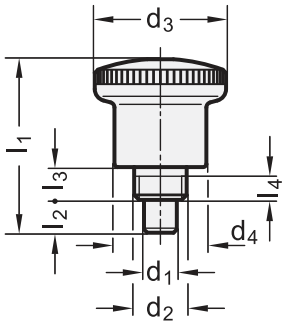
Mini indexing plungers GN 822 are distinguished for their small dimensions. They have been designed for installation in thin walled sheet metal constructions.
They are inserted into position by holding them by the serrated knob. The spanner flats on the lock nut are revealed when retracting the pin, so that the mini indexing plunger can be easily tightened by means of a fork spanner.
With Type C the knob can be turned by 30° and a notch keeps the knob in this position.
- Range of indexing plungers (see page 738)

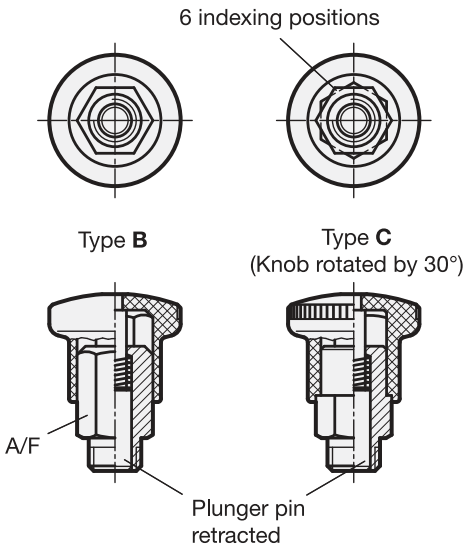
ACCESSORY

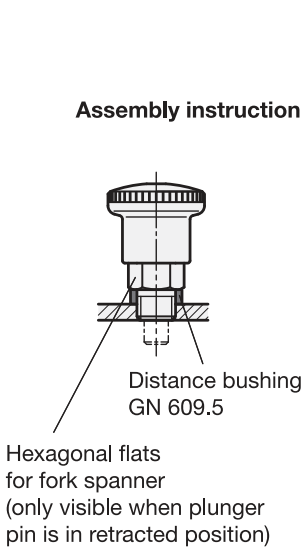
Distance bushings GN 609.5 (see page 810) are to be ordered seperately.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)
- Load rating information (see page A42)







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GN 822

Description	d1 Pin 0/-0.06 Bore +0.05/+0.1	d2	d3	d4	l1	l2 min.	l3	l4 min.	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 822-4-B-ST	4	M 8 x 0.75	21	15	26.5	5	5	3.5	10	4.5	12	14
GN 822-5-B-ST	5	M 8 x 0.75	21	15	26.5	5	5	3.5	10	4.5	12	14
GN 822-6-B-ST	6	M 10 x 1	25	18	34	7	7	4.5	12	5	18	25
GN 822-7-B-ST	7	M 10 x 1	25	18	34	7	7	4.5	12	5	18	26
GN 822-4-C-ST	4	M 8 x 0.75	21	15	26.5	5	5	3.5	10	4.5	12	13
GN 822-5-C-ST	5	M 8 x 0.75	21	15	26.5	5	5	3.5	10	4.5	12	14
GN 822-6-C-ST	6	M 10 x 1	25	18	34	7	7	4.5	12	5	18	23
GN 822-7-C-ST	7	M 10 x 1	25	18	34	7	7	4.5	12	5	18	24
GN 822-4-B-ST-RT	4	M 8 x 0.75	21	15	26.5	5	5	3.5	10	4.5	12	13
GN 822-5-B-ST-RT	5	M 8 x 0.75	21	15	26.5	5	5	3.5	10	4.5	12	14
GN 822-6-B-ST-RT	6	M 10 x 1	25	18	34	7	7	4.5	12	5	18	25
GN 822-7-B-ST-RT	7	M 10 x 1	25	18	34	7	7	4.5	12	5	18	26
GN 822-4-C-ST-RT	4	M 8 x 0.75	21	15	26.5	5	5	3.5	10	4.5	12	13
GN 822-5-C-ST-RT	5	M 8 x 0.75	21	15	26.5	5	5	3.5	10	4.5	12	14
GN 822-6-C-ST-RT	6	M 10 x 1	25	18	34	7	7	4.5	12	5	18	24
GN 822-7-C-ST-RT	7	M 10 x 1	25	18	34	7	7	4.5	12	5	18	25

GN 822-NI

STAINLESS STEEL

Description	d1 Pin 0/-0.06 Bore +0.05/+0.1	d2	d3	d4	l1	l2 min.	l3	l4 min.	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 822-4-B-NI	4	M 8 x 0.75	21	15	26.5	5	5	3.5	10	4.5	12	13
GN 822-5-B-NI	5	M 8 x 0.75	21	15	26.5	5	5	3.5	10	4.5	12	14
GN 822-6-B-NI	6	M 10 x 1	25	18	34	7	7	4.5	12	5	18	25
GN 822-7-B-NI	7	M 10 x 1	25	18	34	7	7	4.5	12	5	18	26
GN 822-4-C-NI	4	M 8 x 0.75	21	15	26.5	5	5	3.5	10	4.5	12	14
GN 822-5-C-NI	5	M 8 x 0.75	21	15	26.5	5	5	3.5	10	4.5	12	14
GN 822-6-C-NI	6	M 10 x 1	25	18	34	7	7	4.5	12	5	18	24
GN 822-7-C-NI	7	M 10 x 1	25	18	34	7	7	4.5	12	5	18	25
GN 822-4-B-NI-RT	4	M 8 x 0.75	21	15	26.5	5	5	3.5	10	4.5	12	13
GN 822-5-B-NI-RT	5	M 8 x 0.75	21	15	26.5	5	5	3.5	10	4.5	12	14
GN 822-6-B-NI-RT	6	M 10 x 1	25	18	34	7	7	4.5	12	5	18	25
GN 822-7-B-NI-RT	7	M 10 x 1	25	18	34	7	7	4.5	12	5	18	26
GN 822-4-C-NI-RT	4	M 8 x 0.75	21	15	26.5	5	5	3.5	10	4.5	12	10
GN 822-5-C-NI-RT	5	M 8 x 0.75	21	15	26.5	5	5	3.5	10	4.5	12	20
GN 822-6-C-NI-RT	6	M 10 x 1	25	18	34	7	7	4.5	12	5	18	24
GN 822-7-C-NI-RT	7	M 10 x 1	25	18	34	7	7	4.5	12	5	18	30

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Mini indexing plungers

Steel / Stainless Steel, opening indexing mechanism, with and without rest position

SPECIFICATION

Types

- Type **B**: without rest position
- Type **C**: with rest position

Version in Steel ST

zinc plated, blue passivated

Version in Stainless Steel AISI 303 NI

Pin
Stainless Steel AISI 303

Spring
Stainless Steel AISI 301

Knob Plastic (Polyamide PA)

- black, matt
- red, RAL 3000 **RT**
- not removable

INFORMATION

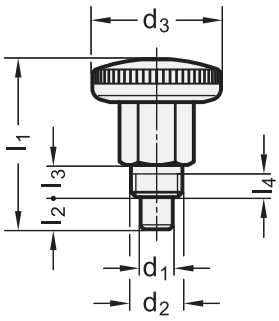
Mini indexing plungers GN 822.1 are distinguished for their small dimensions. They have been designed for installation in thin walled sheet metal constructions.
Type C with rest position is used for such applications where the plunger has to stay in its retracted position. To achieve this, the knob is rotated by 90° degrees after being retracted. A notch keeps the plunger in this position.

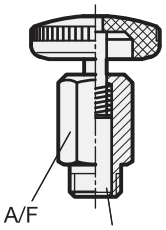
- Range of indexing plungers (see page 738)

TECHNICAL INFORMATION

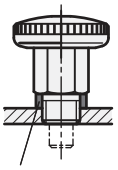
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)
- Load rating information (see page A42)

Type **B**



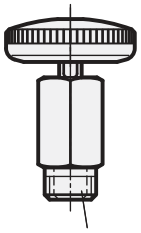


Assembly instruction



Type **C**

(Knob rotated by 90°)



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GN 822.1

Description	d1 Pin 0/-0.06 Bore +0.05/+0.1	d2	d3	l1	l2 min.	l3	l4 min.	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 822.1-4-B-ST	4	M 8 x 0.75	21	26.5	5	5	3.5	10	4.5	12	13
GN 822.1-5-B-ST	5	M 8 x 0.75	21	26.5	5	5	3.5	10	4.5	12	13
GN 822.1-6-B-ST	6	M 10 x 1	25	34	7	7	4.5	12	5	18	23
GN 822.1-7-B-ST	7	M 10 x 1	25	34	7	7	4.5	12	5	18	23
GN 822.1-4-C-ST	4	M 8 x 0.75	21	26.5	5	5	3.5	10	4.5	12	12
GN 822.1-5-C-ST	5	M 8 x 0.75	21	26.5	5	5	3.5	10	4.5	12	12
GN 822.1-6-C-ST	6	M 10 x 1	25	34	7	7	4.5	12	5	18	22
GN 822.1-7-C-ST	7	M 10 x 1	25	34	7	7	4.5	12	5	18	22
GN 822.1-4-B-ST-RT	4	M 8 x 0.75	21	26.5	5	5	3.5	10	4.5	12	13
GN 822.1-5-B-ST-RT	5	M 8 x 0.75	21	26.5	5	5	3.5	10	4.5	12	13
GN 822.1-6-B-ST-RT	6	M 10 x 1	25	34	7	7	4.5	12	5	18	23
GN 822.1-7-B-ST-RT	7	M 10 x 1	25	34	7	7	4.5	12	5	18	23
GN 822.1-4-C-ST-RT	4	M 8 x 0.75	21	26.5	5	5	3.5	10	4.5	12	12
GN 822.1-5-C-ST-RT	5	M 8 x 0.75	21	26.5	5	5	3.5	10	4.5	12	12
GN 822.1-6-C-ST-RT	6	M 10 x 1	25	34	7	7	4.5	12	5	18	22
GN 822.1-7-C-ST-RT	7	M 10 x 1	25	34	7	7	4.5	12	5	18	22

GN 822.1-NI **STAINLESS STEEL**

Description	d1 Pin 0/-0.06 Bore +0.05/+0.1	d2	d3	l1	l2 min.	l3	l4 min.	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 822.1-4-B-NI	4	M 8 x 0.75	21	26.5	5	5	3.5	10	4.5	12	13
GN 822.1-5-B-NI	5	M 8 x 0.75	21	26.5	5	5	3.5	10	4.5	12	13
GN 822.1-6-B-NI	6	M 10 x 1	25	34	7	7	4.5	12	5	18	23
GN 822.1-7-B-NI	7	M 10 x 1	25	34	7	7	4.5	12	5	18	23
GN 822.1-4-C-NI	4	M 8 x 0.75	21	26.5	5	5	3.5	10	4.5	12	12
GN 822.1-5-C-NI	5	M 8 x 0.75	21	26.5	5	5	3.5	10	4.5	12	13
GN 822.1-6-C-NI	6	M 10 x 1	25	34	7	7	4.5	12	5	18	22
GN 822.1-7-C-NI	7	M 10 x 1	25	34	7	7	4.5	12	5	18	23
GN 822.1-4-B-NI-RT	4	M 8 x 0.75	21	26.5	5	5	3.5	10	4.5	12	13
GN 822.1-5-B-NI-RT	5	M 8 x 0.75	21	26.5	5	5	3.5	10	4.5	12	13
GN 822.1-6-B-NI-RT	6	M 10 x 1	25	34	7	7	4.5	12	5	18	23
GN 822.1-7-B-NI-RT	7	M 10 x 1	25	34	7	7	4.5	12	5	18	23
GN 822.1-4-C-NI-RT	4	M 8 x 0.75	21	26.5	5	5	3.5	10	4.5	12	12
GN 822.1-5-C-NI-RT	5	M 8 x 0.75	21	26.5	5	5	3.5	10	4.5	12	13
GN 822.1-6-C-NI-RT	6	M 10 x 1	25	34	7	7	4.5	12	5	18	22
GN 822.1-7-C-NI-RT	7	M 10 x 1	25	34	7	7	4.5	12	5	18	23

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Stainless Steel-
Mini indexing plungers

with and without rest position

SPECIFICATION

Types

- Type **B**: without rest position, with plastic knob
- Type **BN**: without rest position, with Stainless Steel-Knob
- Type **C**: with rest position, with plastic knob
- Type **CN**: with rest position, with Stainless Steel-Knob

Guide / Pin
Stainless Steel AISI 303

Spring
Stainless Steel AISI 301

Version with Plastic knob

Knob Type B and C

- Plastic (Polyamide PA)
- black, matt
- not removable

Version with Stainless Steel knob

Knob Type BN and CN

- Stainless Steel AISI CF-8
- matt blasted
- not removable

INFORMATION

Mini indexing plungers GN 822.7 are distinguished for their small dimensions.
Based on the principle of the GN 822 (see page 780) mini indexing plungers, this model combines their clever type of construction with a complete series of all current sizes of bolts and threads. They provide a reasonably priced alternative to the GN 607 (see page 769) / GN 607.1 (see page 770) indexing plungers of the appropriate sizes.
To mount, first turn the mini indexing plunger in with the knurled button. Pulling the indexing pin will release the hexagon nut which can then be tightened with an open-end spanner.
The spanner flats on the lock nut are revealed when retracting the pin, so that the mini indexing plunger can be easily tightened by means of a fork spanner.
In types C and CN, the button can be turned by 30° after retracting the indexing pin, holding it in the "retraced" position using the indexing lock.

- Range of indexing plungers (see page 738)

ACCESSORY

Distance bushings GN 609.5 (see page 810) or flat hexagonal nuts GN 909.5 (see page 809) are to be ordered seperately.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)
- ISO-Fundamental tolerances (see page A21)
- Load rating information (see page A42)

ON REQUEST

- with red knob

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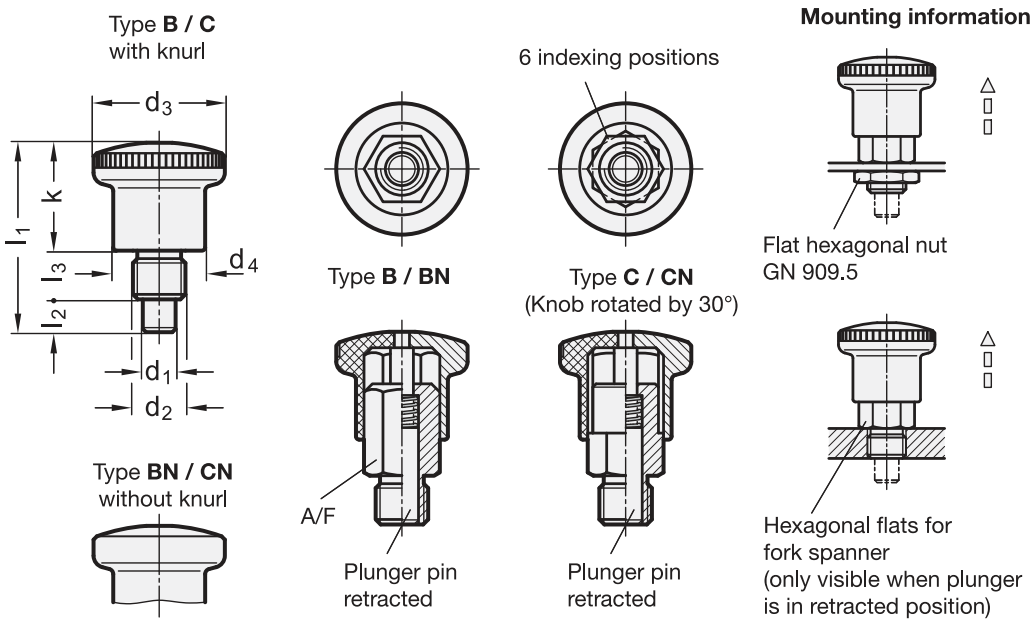
GN 822.7 | Stainless Steel-Mini indexing plungers



* Complete with type index of the mini indexing plungers (B or C)

B without rest position

C with rest position

GN 822.7 — **STAINLESS STEEL**

Description	d1 Bore +0.03/+0.08 Pin h9	d2	d3	d4	l1	l2 min.	l3	k	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 822.7-4-M8-*	4	M 8	21	15	27.5	5	6	16.5	10	4	12	14
GN 822.7-4-M8x1-*	4	M 8 x 1	21	15	27.5	5	6	16.5	10	4	12	15
GN 822.7-5-M10-*	5	M 10	25	18	34	6	8	20	12	6	16	25
GN 822.7-5-M10x1-*	5	M 10 x 1	25	18	34	6	8	20	12	6	16	25
GN 822.7-6-M10-*	6	M 10	25	18	34	6	8	20	12	6	16	26
GN 822.7-6-M10x1-*	6	M 10 x 1	25	18	34	6	8	20	12	6	16	26
GN 822.7-6-M12-*	6	M 12	28	20	40.5	7	10	23.5	14	10	23	40
GN 822.7-6-M12x1,5-*	6	M 12 x 1.5	28	20	40.5	7	10	23.5	14	10	23	40
GN 822.7-7-M12-*	7	M 12	28	20	40.5	7	10	23.5	14	10	23	41
GN 822.7-7-M12x1,5-*	7	M 12 x 1.5	28	20	40.5	7	10	23.5	14	10	23	41
GN 822.7-8-M16-*	8	M 16	33	23	47.5	10	12	25.5	17	11	35	67
GN 822.7-8-M16x1,5-*	8	M 16 x 1.5	33	23	47.5	10	12	25.5	17	11	35	67
GN 822.7-10-M16-*	10	M 16	33	23	47.5	10	12	25.5	17	11	35	68
GN 822.7-10-M16x1,5-*	10	M 16 x 1.5	33	23	47.5	10	12	25.5	17	11	35	70

Weight type B

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Stainless Steel-
Mini indexing plungers

with and without rest position

SPECIFICATION

Types

- Type **B**: without rest position, with plastic knob
- Type **BN**: without rest position, with Stainless Steel knob
- Type **C**: with rest position, with plastic knob
- Type **CN**: with rest postion, with Stainless Steel knob

Guide
Stainless Steel AISI 304

Pin
Stainless Steel AISI 303

Spring
Stainless Steel AISI 301

Version with Plastic knob

Knob type B and C

- Plastic (Polyamide PA)
- black, matt
- not removable

Version with Stainless Steel knob

Knob type BN and CN

- AISI CF-8
- matt, blasted
- not removable

INFORMATION

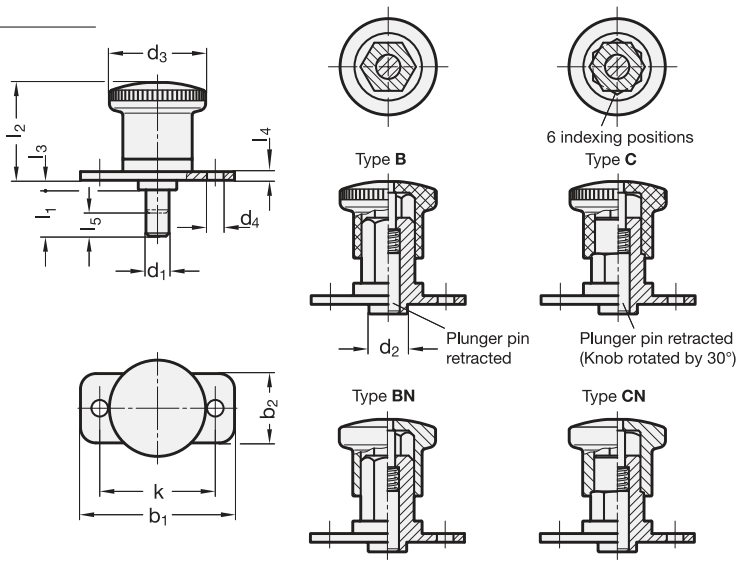
Stainless Steel-Mini indexing plungers GN 822.9 are distinguished for their small dimensions. They are mounted by countersunk screws.
The Stainless Steel-Mini indexing plungers present an affordable alternative to the GN 608.5 (see page) and GN 608.6 (see page 779) Stainless Steel-Indexing plungers.
In types C and CN, the button can be turned by 30° after retracting the indexing pin, holding it in the „retraced" position using the indexing lock.
- Range of indexing plungers (see page 738)

TECHNICAL INFORMATION

- ISO-Fundamental tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)
- Load rating information (see page A42)

ON REQUEST

- with red knob



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GN 822.9 | Stainless Steel-Mini indexing plungers

GN 822.9-B/C

STAINLESS STEEL

Description	d1 Bore +0.03/+0.08 Pin h9	l1	b1	b2	d2	d3	d4	k	l2	l3	l4	l5	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 822.9-4-5-B	4	5	35	15	8	21	4.3	25	20.5	2	2	5	4	12	23
GN 822.9-4-10-B	4	10	35	15	8	21	4.3	25	20.5	2	2	5	4	12	23
GN 822.9-5-6-B	5	6	40	18	10	25	4.3	30	25.5	2.5	2	6	6	16	40
GN 822.9-5-12-B	5	12	40	18	10	25	4.3	30	25.5	2.5	2	6	6	16	41
GN 822.9-6-6-B	6	6	40	18	10	25	4.3	30	25.5	2.5	2	6	6	16	40
GN 822.9-6-12-B	6	12	40	18	10	25	4.3	30	25.5	2.5	2	6	6	16	42
GN 822.9-8-10-B	8	10	50	23	14	33	5.3	38	35	2.5	3	10	11	35	100
GN 822.9-8-20-B	8	20	50	23	14	33	5.3	38	35	2.5	3	10	11	35	105
GN 822.9-10-10-B	10	10	50	23	14	33	5.3	38	35	2.5	3	10	11	35	103
GN 822.9-10-20-B	10	20	50	23	14	33	5.3	38	35	2.5	3	10	11	35	109
GN 822.9-4-5-C	4	5	35	15	8	21	4.3	25	20.5	2	2	5	4	12	23
GN 822.9-4-10-C	4	10	35	15	8	21	4.3	25	20.5	2	2	5	4	12	24
GN 822.9-5-6-C	5	6	40	18	10	25	4.3	30	25.5	2.5	2	6	6	16	40
GN 822.9-5-12-C	5	12	40	18	10	25	4.3	30	25.5	2.5	2	6	6	16	41
GN 822.9-6-6-C	6	6	40	18	10	25	4.3	30	25.5	2.5	2	6	6	16	40
GN 822.9-6-12-C	6	12	40	18	10	25	4.3	30	25.5	2.5	2	6	6	16	42
GN 822.9-8-10-C	8	10	50	23	14	33	5.3	38	35	2.5	3	10	11	35	99
GN 822.9-8-20-C	8	20	50	23	14	33	5.3	38	35	2.5	3	10	11	35	103
GN 822.9-10-10-C	10	10	50	23	14	33	5.3	38	35	2.5	3	10	11	35	102
GN 822.9-10-20-C	10	20	50	23	14	33	5.3	38	35	2.5	3	10	11	35	108

GN 822.9-BN/CN

STAINLESS STEEL

Description	d1 Bore +0.03/+0.08 Pin h9	l1	b1	b2	d2	d3	d4	k	l2	l3	l4	l5	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 822.9-4-5-BN	4	5	35	15	8	21	4.3	25	20.5	2	2	5	4	12	37
GN 822.9-4-10-BN	4	10	35	15	8	21	4.3	25	20.5	2	2	5	4	12	37
GN 822.9-5-6-BN	5	6	40	18	10	25	4.3	30	25.5	2.5	2	6	6	16	64
GN 822.9-5-12-BN	5	12	40	18	10	25	4.3	30	25.5	2.5	2	6	6	16	65
GN 822.9-6-6-BN	6	6	40	18	10	25	4.3	30	25.5	2.5	2	6	6	16	65
GN 822.9-6-12-BN	6	12	40	18	10	25	4.3	30	25.5	2.5	2	6	6	16	66
GN 822.9-8-10-BN	8	10	50	23	14	33	5.3	38	35	2.5	3	10	11	35	146
GN 822.9-8-20-BN	8	20	50	23	14	33	5.3	38	35	2.5	3	10	11	35	150
GN 822.9-10-10-BN	10	10	50	23	14	33	5.3	38	35	2.5	3	10	11	35	149
GN 822.9-10-20-BN	10	20	50	23	14	33	5.3	38	35	2.5	3	10	11	35	155
GN 822.9-4-5-CN	4	5	35	15	8	21	4.3	25	20.5	2	2	5	4	12	37
GN 822.9-4-10-CN	4	10	35	15	8	21	4.3	25	20.5	2	2	5	4	12	37
GN 822.9-5-6-CN	5	6	40	18	10	25	4.3	30	25.5	2.5	2	6	6	16	64
GN 822.9-5-12-CN	5	12	40	18	10	25	4.3	30	25.5	2.5	2	6	6	16	65
GN 822.9-6-6-CN	6	6	40	18	10	25	4.3	30	25.5	2.5	2	6	6	16	47
GN 822.9-6-12-CN	6	12	40	18	10	25	4.3	30	25.5	2.5	2	6	6	16	66
GN 822.9-8-10-CN	8	10	50	23	14	33	5.3	38	35	2.5	3	10	11	35	146
GN 822.9-8-20-CN	8	20	50	23	14	33	5.3	38	35	2.5	3	10	11	35	150
GN 822.9-10-10-CN	10	10	50	23	14	33	5.3	38	35	2.5	3	10	11	35	148
GN 822.9-10-20-CN	10	20	50	23	14	33	5.3	38	35	2.5	3	10	11	35	154

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Mini indexing plungers

with and without rest position

SPECIFICATION

Types

- Type **B**: without rest position
- Type **C**: with rest position

Guide
Zinc die casting
plastic coated
black, textured finish

Pin
Stainless Steel AISI 303

Spring
Stainless Steel AISI 301

Knob
Plastic (Polyamide PA)

- black, matt
- not removable

INFORMATION

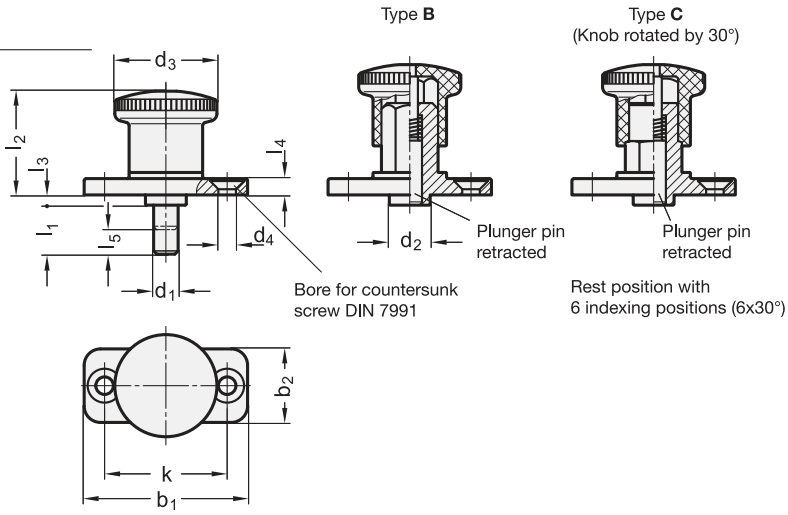
Mini indexing plungers GN 822.8 are distinguished for their small dimensions. They are mounted by countersunk screws.
The mini indexing plungers present an affordable alternative to the GN 608 (see page 776) and GN 608.1 (see page 778) indexing plungers.
In type C, the button can be turned by 30° after retracting the indexing pin, holding it in the "retraced" position using the indexing lock.
- Range of indexing plungers (see page 738)

ON REQUEST

- with red knob

TECHNICAL INFORMATION

- ISO-Fundamental tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)
- Load rating information (see page A42)



*Complete with type index of the Mini indexing plunger (B or C)

B
without rest position

C
with rest position

GN 822.8

Description	d1 Bore +0.03/+0.08 Pin h9	l1	b1	b2	d2 -0.15	d3	d4	k	l2	l3	l4	l5	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 822.8-4-5-*	4	5	35	15	8	21	4.3	25	20.5	2	4	5	4	12	23
GN 822.8-4-10-*	4	10	35	15	8	21	4.3	25	20.5	2	4	5	4	12	23
GN 822.8-5-6-*	5	6	40	18	10	25	4.3	30	25.5	2.5	4	6	6	16	39
GN 822.8-5-12-*	5	12	40	18	10	25	4.3	30	25.5	2.5	4	6	6	16	40
GN 822.8-6-6-*	6	6	40	18	10	25	4.3	30	25.5	2.5	4	6	6	16	39
GN 822.8-6-12-*	6	12	40	18	10	25	4.3	30	25.5	2.5	4	6	6	16	41
GN 822.8-8-10-*	8	10	50	23	14	33	5.3	38	35	2.5	5	10	11	35	94
GN 822.8-8-20-*	8	20	50	23	14	33	5.3	38	35	2.5	5	10	11	35	98
GN 822.8-10-10-*	10	10	50	23	14	33	5.3	38	35	2.5	5	10	11	35	96
GN 822.8-10-20-*	10	20	50	23	14	33	5.3	38	35	2.5	5	10	11	35	102

Weight type B

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GN 412

Indexing plungers

with and without rest position

SPECIFICATION

Types

- Type **B**: without rest position
- Type **C**: with rest position

Identification no.

- No. **1**: Mounting from the front
- No. **2**: Mounting from the back

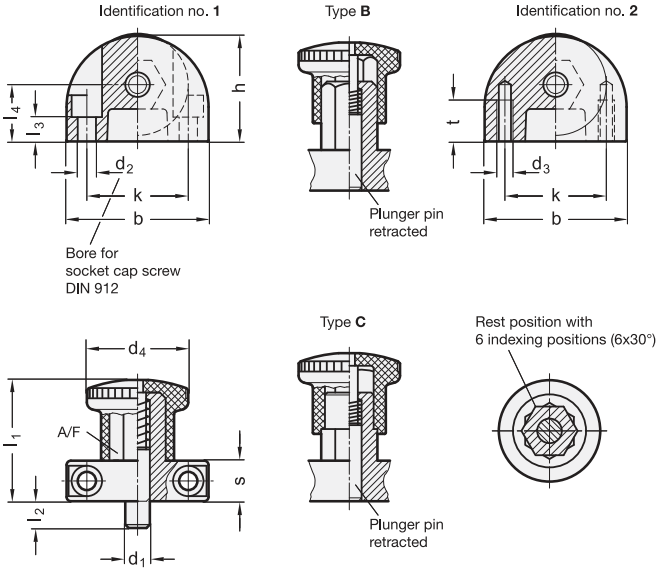
Guide
Zinc die casting
plastic coated
black, textured finish

Pin
Stainless Steel AISI 303

Spring
Stainless Steel AISI 301

Knob
Plastic (Polyamide PA)

- black, matt finish
- not removable



INFORMATION

The outstanding feature of the indexing plungers GN 412 is their compact design. They are mounted either from the front with cylinder head screws or from the back through threads. In Type C, the knob can be turned by 30° after retracting the indexing pin, holding it in the "retracted" position by means of the indexing lock.
The dimensions and connection measurements match the combination with GN 412.1 (see page 814) mounting blocks in connection with positioning bushings GN 412.2 (see page 813) or GN 412.3 (see page 812).

TECHNICAL INFORMATION

- Plastic characteristics (see page A2)
- Stainless Steel characteristics (see page A26)
- Load rating information (see page A42)

GN 412

Description	d1 Pin 0/-0.06 Bore +0.05/+0.1	b	d2	d3	d4	h	k	l1	l2 min.	l3	l4	s	A/F	t	Spring load in initial N ≈	Spring load in end N ≈	⚖
GN 412-5-35-B-1	5	35	4.3	-	25	26	25	32	6	6	14	12	12	-	5	15	63
GN 412-5-35-B-2	5	35	-	M 4	25	26	25	32	6	-	14	12	12	10	5	15	71
GN 412-6-35-B-1	6	35	4.3	-	25	26	25	32	6	6	14	12	12	-	5	15	64
GN 412-6-35-B-2	6	35	-	M 4	25	26	25	32	6	-	14	12	12	10	5	15	71
GN 412-8-47-B-1	8	47	5.3	-	33	34	35	39	10	10	18	14	17	-	9	35	140
GN 412-8-47-B-2	8	47	-	M 5	33	34	35	39	10	-	18	14	17	12	9	35	152
GN 412-10-47-B-1	10	47	5.3	-	33	34	35	39	10	10	18	14	17	-	9	35	143
GN 412-10-47-B-2	10	47	-	M 5	33	34	35	39	10	-	18	14	17	12	9	35	154
GN 412-5-35-C-1	5	35	4.3	-	25	26	25	32	6	6	14	12	12	-	5	15	63
GN 412-5-35-C-2	5	35	-	M 4	25	26	25	32	6	-	14	12	12	10	5	15	70
GN 412-6-35-C-1	6	35	4.3	-	25	26	25	32	6	6	14	12	12	-	5	15	64
GN 412-6-35-C-2	6	35	-	M 4	25	26	25	32	6	-	14	12	12	10	5	15	71
GN 412-8-47-C-1	8	47	5.3	-	33	34	35	39	10	10	18	14	17	-	9	35	130
GN 412-8-47-C-2	8	47	-	M 5	33	34	35	39	10	-	18	14	17	12	9	35	152
GN 412-10-47-C-1	10	47	5.3	-	33	34	35	39	10	10	18	14	17	-	9	35	143
GN 412-10-47-C-2	10	47	-	M 5	33	34	35	39	10	-	18	14	17	12	9	35	155

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Spring latches

SPECIFICATION

Types

- Type **S**: with locking, without rest position
- Type **L1**: Locking / Rest position via counterclockwise rotation
- Type **R1**: Locking / Rest position via clockwise rotation

Guide
Zinc die casting
plastic coated, RAL 9005, textured finish

Plunger pin
Steel
zinc plated, blue passivated

Spring
Stainless Steel AISI 301

Latch lever
Plastic, Technopolymer (Polyamide PA)

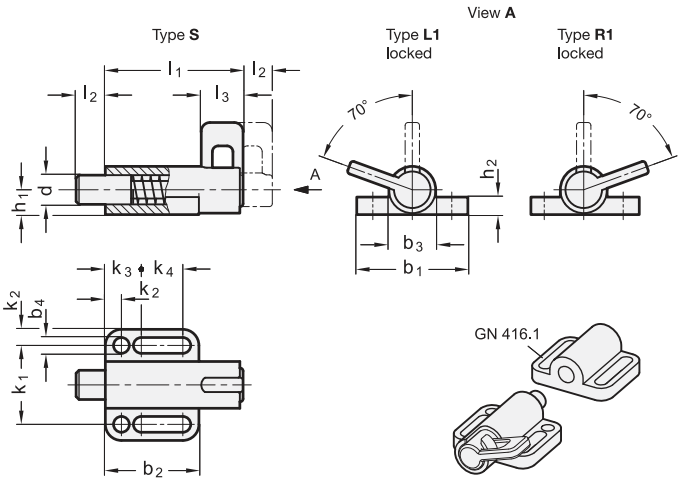
- black, matte
- not removable

INFORMATION

The plunger of spring latches GN 416 is operated by an axial pulling of the latch lever. This kind of operation from the top side is advantageous in certain installation situations.
The pins of Type S spring latches are engaged in the housing to prevent rotation, and therefore lock in the starting position but not the retracted position. Types R1 and L1 spring latches offer a locking function in the starting as well as in the retracted position, preventing an unintentional operation. A lock notch holds the latch lever in both positions.
The adjustment range is designed in such a way that ISO 7092 washers can be used within the adjustment slot in the housing.

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)



GN 416

Description	d Pin -0.05 Bore +0.1/+0.05	b1	b2	b3	b4	h1	h2	k1	k2	k3	k4	l1	l2 min.	l3	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 416-6-38-L1	6	38	32	16	5.4	8.5	6	27	5.5	12	14.5	47	10	14	21	27	67
GN 416-8-38-L1	8	38	32	16	5.4	8.5	6	27	5.5	12	14.5	47	10	14	21	27	69
GN 416-8-46-L1	8	46	40	20	6.4	11	6	33	6.5	14.5	19	59	12	17	25	38	130
GN 416-10-38-L1	10	38	32	16	5.4	8.5	6	27	5.5	12	14.5	47	10	14	21	27	72
GN 416-10-46-L1	10	46	40	20	6.4	11	6	33	6.5	14.5	19	59	12	17	25	38	132
GN 416-12-46-L1	12	46	40	20	6.4	11	6	33	6.5	14.5	19	59	12	17	25	38	136
GN 416-6-38-S	6	38	32	16	5.4	8.5	6	27	5.5	12	14.5	47	10	14	21	27	68
GN 416-8-38-S	8	38	32	16	5.4	8.5	6	27	5.5	12	14.5	47	10	14	21	27	69
GN 416-8-46-S	8	46	40	20	6.4	11	6	33	6.5	14.5	19	59	12	17	25	38	140
GN 416-10-38-S	10	38	32	16	5.4	8.5	6	27	5.5	12	14.5	47	10	14	21	27	70
GN 416-10-46-S	10	46	40	20	6.4	11	6	33	6.5	14.5	19	59	12	17	25	38	132
GN 416-12-46-S	12	46	40	20	6.4	11	6	33	6.5	14.5	19	59	12	17	25	38	135
GN 416-6-38-R1	6	38	32	16	5.4	8.5	6	27	5.5	12	14.5	47	10	14	21	27	66
GN 416-8-38-R1	8	38	32	16	5.4	8.5	6	27	5.5	12	14.5	47	10	14	21	27	69
GN 416-8-46-R1	8	46	40	20	6.4	11	6	33	6.5	14.5	19	59	12	17	25	38	120
GN 416-10-38-R1	10	38	32	16	5.4	8.5	6	27	5.5	12	14.5	47	10	14	21	27	71
GN 416-10-46-R1	10	46	40	20	6.4	11	6	33	6.5	14.5	19	59	12	17	25	38	150
GN 416-12-46-R1	12	46	40	20	6.4	11	6	33	6.5	14.5	19	59	12	17	25	38	135

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GN 416.1

Locators

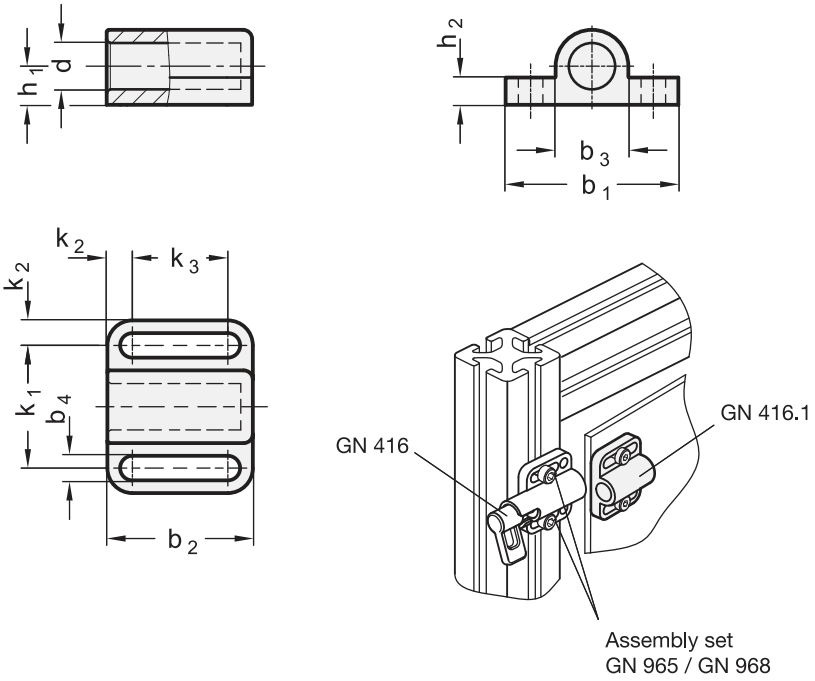
for spring latches GN 416

SPECIFICATION

Zinc die casting
plastic coated
black, RAL 2005, textured finish

INFORMATION

Locators GN 416.1 are matched to the spring latches GN 416 and are used to position the indexing pin.



GN 416.1

Description	d Nominal dimension	d Actual dimension +0.15/-0.05	b1	b2	b3	b4	h1	h2	k1	k2	k3	⚖
GN 416.1-6-38	6	6.2	38	28	16	5.4	8.5	6	27	5.5	17	51
GN 416.1-8-38	8	8.2	38	28	16	5.4	8.5	6	27	5.5	17	47
GN 416.1-8-46	8	8.2	46	38	20	6.4	11	6	33	6.5	25	94
GN 416.1-10-38	10	10.2	38	28	16	5.4	8.5	6	27	5.5	17	20
GN 416.1-10-46	10	10.2	46	38	20	6.4	11	6	33	6.5	25	87
GN 416.1-12-46	12	12.2	46	38	20	6.4	11	6	33	6.5	25	79

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Indexing plungers

with and without rest position

SPECIFICATION

Version without rest position

Types

- Type **A**: without rest position (lifting ring)
- Type **B**: without rest position (Knob)

Version with rest position

Type

- Type **C**: with rest position (Knob)

This information applies to both standards:
Guide
Zinc die casting
plastic coated
black, textured finish

Pin
Stainless Steel AISI 303

Spring
Stainless Steel AISI 301

Lifting ring
Stainless Steel AISI 301

Knob
Plastic (Polyamide PA)

- black, matt
- not removable

INFORMATION

The screwing range of indexing plungers GN 417 is chosen in such a way that washers ISO 7092 can be used.
Indexing plungers GN 417 type C with rest position are used in such applications where the plunger has to stay in its retracted position. To achieve this, the knob is rotated by 90° degrees after being retracted. A notch keeps the plunger in this position.

- Range of indexing plungers (see page 738)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)
- Load rating information (see page A42)

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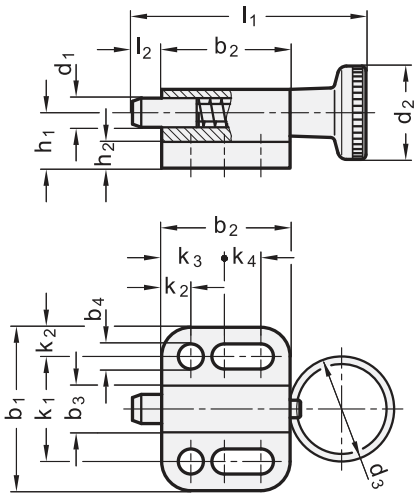
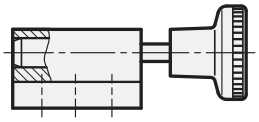
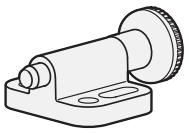


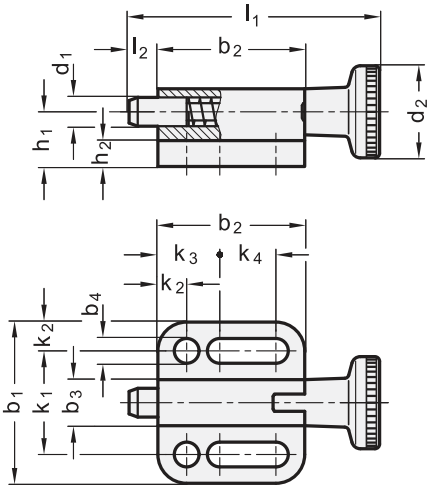
Plunger pin retracted



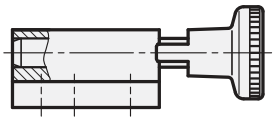


GN 417

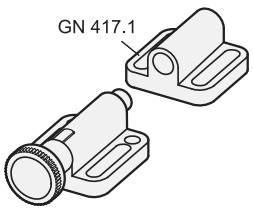
Description	d1 Bore +0.03/+0.08 Plunger h11	d2	d3	b1	b2	b3	b4 -0.2	h1	h2	k1 ±0.05	k2	k3	k4	l1	l2 ±0.5	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 417-4-A	4	-	14	22	16.5	6	3.3	7	4	14	4	8	4.5	-	4	3	12	11
GN 417-5-A	5	-	18	28	22	8	4.3	9.5	4.5	18	5	10	7	-	5	5	24	22
GN 417-6-A	6	-	24	32	27.5	10	5.4	10.5	5	21	5.5	12	10	-	6	5	21	36
GN 417-8-A	8	-	30	34	33	12	5.4	12.5	6	23	5.5	12	15.5	-	8	6	22	58
GN 417-10-A	10	-	30	39	35	14.5	6.5	14.5	6	27	6	15	13.5	-	10	4	25	83
GN 417-4-B	4	12	-	22	16.5	6	3.3	7	4	14	4	8	4.5	30.5	4	3	12	11
GN 417-5-B	5	16	-	28	22	8	4.3	9.5	4.5	18	5	10	7	40	5	5	24	22
GN 417-6-B	6	18	-	32	27.5	10	5.4	10.5	5	21	5.5	12	10	49	6	5	21	25
GN 417-8-B	8	21	-	34	33	12	5.4	12.5	6	23	5.5	12	15.5	59	8	6	22	59
GN 417-10-B	10	25	-	39	35	14.5	6.5	14.5	6	27	6	15	13.5	67.5	10	4	25	34



Plunger pin retracted



GN 417.1



GN 417-C

Description	d1 Bore +0.03/+0.08 Plunger h11	d2	b1	b2	b3	b4 -0.2	h1	h2	k1 ±0.05	k2	k3	k4	l1	l2 min.	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 417-4-C	4	12	22	19	6	3.3	7	4	14	4	8	7	33	4	3	12	14
GN 417-5-C	5	16	28	25.5	8	4.3	9.5	4.5	18	5	10	10.5	43.5	5	5	24	25
GN 417-6-C	6	18	32	30.5	10	5.4	10.5	5	21	5.5	12	13	52	6	5	21	41
GN 417-8-C	8	21	34	37.5	12	5.4	12.5	6	23	5.5	12	20	63.5	8	6	22	66
GN 417-10-C	10	25	39	40	14.5	6.5	14.5	6	27	6	15	18.5	72.5	10	4	25	97

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Locators

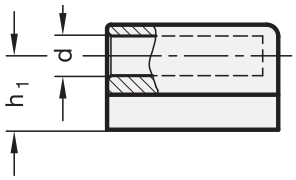
for indexing plungers GN 417

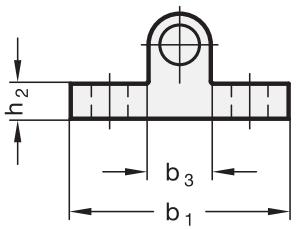
SPECIFICATION

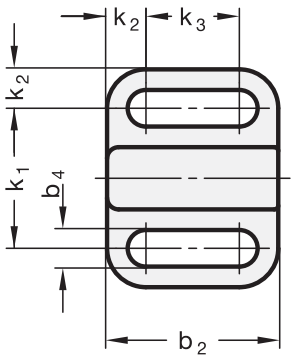
Steel
plastic coated
black, textured finish

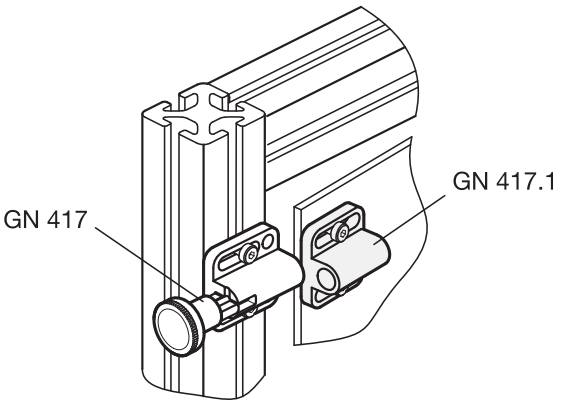
INFORMATION

Locators GN 417.1 are matched to the indexing plungers GN 417 (see page 792) and are used to position the indexing pin.









GN 417.1

Description	d Nominal dimension	d Actual dimension +0.1	b1	b2	b3	b4	h1	h2	k1	k2	k3	⚖
GN 417.1-4	4	4.1	22	16.5	6	3.3	7	4	14	4	8.5	10
GN 417.1-5	5	5.1	28	22	8	4.3	9.5	4.5	18	5	12	20
GN 417.1-6	6	6.2	32	27.5	10	5.4	10.5	5	21	5.5	16.5	30
GN 417.1-8	8	8.2	34	33	12	5.4	12.5	6	23	5.5	22	50
GN 417.1-10	10	10.2	39	35	14.5	6.8	14.5	6	27	6	23	70

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GN 817.3

Indexing plungers

for precision locating, plunger cylindrical

SPECIFICATION

Types

- Type **B**: without rest position
- Type **C**: with rest position

Steel

- blackened
- Pin hardened and grounded

Knob Plastic (Polyamide PA)

- black, matt
- not removable

INFORMATION

Indexing plungers GN 817.3 realize a reasonable priced precision locating when guide bushings DIN 179 (see page 1008) are used .
For this purpose a guide bushing DIN 179 (see page 1008) is used as guide, whereby the dimension l3 of the plunger determines the length of the bushing .
The precise location is, therefore, not dependent on the guide pin in the plunger, but on the accuracy of the guide bushing (bore tolerance F7) and the plunger (tolerance h7). Both components are hardened and ground. It goes without saying that the bushing length also influences the accuracy of the positioning.
Type C is used for such applications where the plunger has to stay in its retracted position. To achieve this, the knob is rotated by 90° degrees after being retracted. A notch keeps the plunger in this position.
- Range of indexing plungers (see page 738)

ACCESSORY

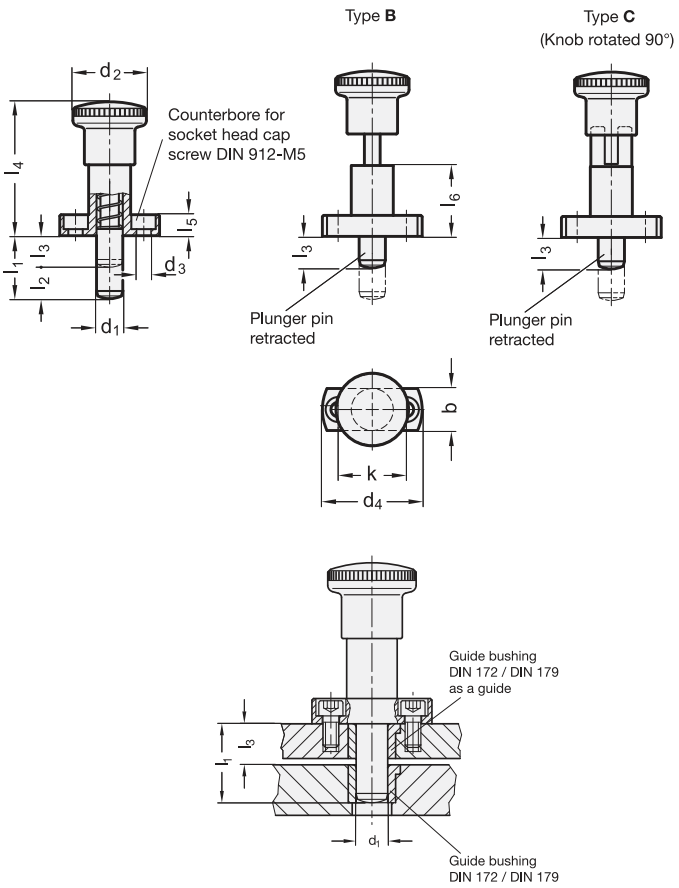
- Guide bushings DIN 179 (see page 1008)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Plastic characteristics (see page A2)

CONSTRUCTION AND ASSEMBLY INSTRUCTIONS

Two different plunger pin lengths l1 are available for each indexing plunger diameter d1.
The length l3 must ensure that the indexing pin fully disengages, bushing length and plate thickness plus any gap can then be selected within certain margins.
For mounting bushings with tolerance n6, a hole with tolerance H7 corresponding to the external diameter is usually provided.
A selection of suitable guide bushings DIN 172 (see page 1006) and DIN 179 (see page 1008) is given.



*Complete with type index of the Indexing plungers (B or C)

B without rest position
C with rest position

GN 817.3

Description	d1 h7	l1	l2	l3	b	d2	d3	d4	k	l4	l5	l6	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 817.3-6-18-*	6	18	9	9	13	23	4.3	34	23	45	6	25	6	25	43
GN 817.3-6-24-*	6	24	9	15	13	23	4.3	34	23	45	6	25	6	25	45
GN 817.3-8-20-*	8	20	10	10	16	28	5.5	38	26	51	8	27	8.5	28	74
GN 817.3-8-26-*	8	26	10	16	16	28	5.5	38	26	51	8	27	8.5	28	77
GN 817.3-10-24-*	10	24	12	12	16	28	5.5	38	26	51	8	27	9.5	38	83
GN 817.3-10-32-*	10	32	12	20	16	28	5.5	38	26	51	8	27	9.5	38	100

Weight type B

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Indexing plungers

for precision locating, plunger conical

SPECIFICATION

Types

- Type **B**: without rest position
- Type **C**: with rest position

Steel

- blackened
- Pin hardened and grounded

Knob Plastic (Polyamide PA)

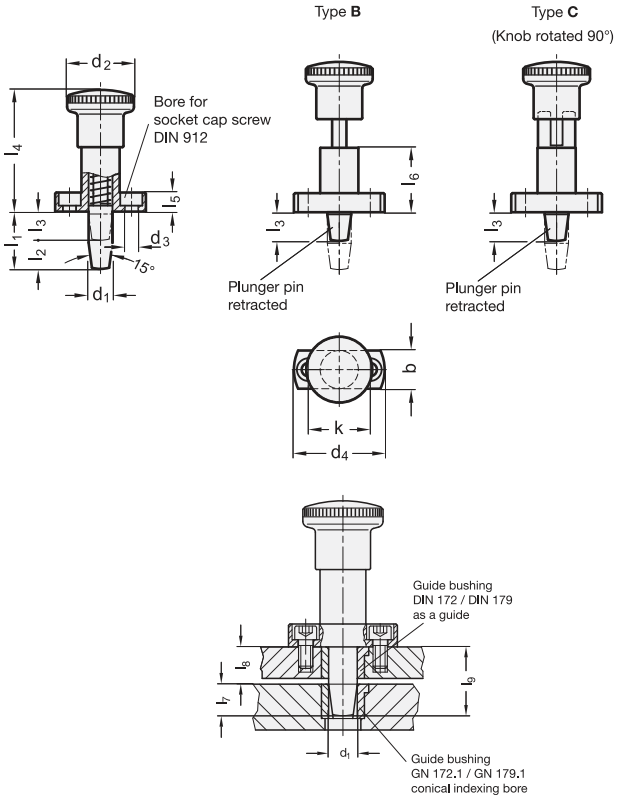
- black, matt
- not removable

INFORMATION

Indexing plungers GN 817.5 allow highly accurate positioning, with the guidance made by the positioning bushings DIN 172 / DIN 179 with cylindrical bore. The actual indexing bore is fitted with positioning bushings GN 172.1 / GN 179.1 with conical bores.
The conical shape of the indexing pin / the indexing bore makes the positioning virtually clearance-free and therefore highly precise.
Type C is used for such applications where the plunger has to stay in its retracted position. To achieve this, the knob is rotated by 90° degrees after being retracted. A notch keeps the plunger in this position.
- Range of indexing plungers (see page 738)

CONSTRUCTION AND ASSEMBLY INSTRUCTIONS

The length l_7 is determined by the penetration depth of the indexing pin into the cone of the bushing.
The length l_8 must ensure that the indexing pin fully disengages, bushing length and plate thickness olus any gap can then be selected within certain margins.
If engaged, the pin must have a minimum remaining stroke of 0.5 mm to make sure that the conical section of the pin is located without clearance in the cone of the guide bushing.
Two different plunger pin lengths l_1 are available for each indexing plunger diameter d_1 (see product table).
For a safe remaining stroke length: $l_9 = l_1 - 0.5$ mm
For mounting bushings with tolerance n6, a hole with tolerance H7 corresponding to the external diameter is usually provided.
A selection of suitable guide bushings DIN 172 (see page 1006) and DIN 179 (see page 1008) with cylindrical bore and guide bushings GN 172.1 (see page 1010) / GN 179.1 (see page 1010) with conical bore.



*Complete with type index of the Indexing plungers (B or C)

B
without rest position

C
with rest position

GN 817.5

Description	d1 Plunger h6	l1	l2	l3	b	d2	d3	d4	k	l4	l5	l6	l7	l8 min.	l8 max.	l9	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 817.5-6-18-*	6	18	9	9	13	23	4.3	34	23	45	6	25	7	9	10	17.5	6	25	43
GN 817.5-6-24-*	6	24	9	15	13	23	4.3	34	23	45	6	25	7	15	16	23.5	6	25	50
GN 817.5-8-20-*	8	20	10.6	9.4	16	28	5.3	38	26	51	8	27	9	9.4	10	19.5	8.5	28	75
GN 817.5-8-26-*	8	26	10.6	15.4	16	28	5.3	38	26	51	8	27	9	15.4	16	25.5	8.5	28	80
GN 817.5-10-24-*	10	24	12.6	11.4	16	28	5.3	38	26	51	8	27	11	11.4	12	23.5	11.5	40	83
GN 817.5-10-32-*	10	32	12.6	19.4	16	28	5.3	38	26	51	8	27	11	19.4	20	31.5	11.5	40	87

Weight type B

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GN 414

Indexing plungers

Steel / Stainless Steel, with safety lock, unlocking with push-button

SPECIFICATION

Types

- Type **A**: without lock nut
- Type **AK**: with lock nut

Version in Steel

- blackened
- Pin hardened

Version in Stainless Steel AISI 303 NI

Pin chemically nickel plated

Knob
Plastic (Polyamide PA)

- black-grey, RAL 7021, matt
- temperature resistant up to 80 °C
- not removable

Push-button
Plastic (Polyacetal POM)
red, RAL 3000, matt

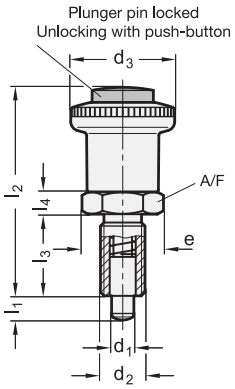
INFORMATION

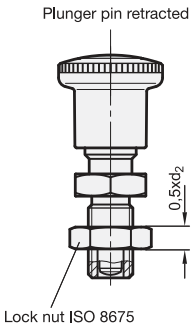
Indexing plungers GN 414 with safety function are used when the inadvertent retraction of the plunger pin is to be prevented. The protruding plunger is first locked and may be unlocked for pulling only by exerting axial pressure on the red safety push-button
In every case, the safety lock engages in the front end position, i.e. automatically if the indexing pin protrudes, with the locking mechanism housed fully in the operating button and protected from malfunctions. The specified axial load bearing capacity refers to the locking force of the bolt against inadvertent operation which must not be exceeded.

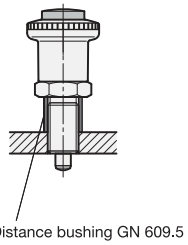
- Range of indexing plungers (see page 738)

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)







*Complete with type index of the Indexing plungers

A **AK**

GN 414

Description	d1 Pin -0.02/-0.04 Bore H7	l1 min.	d2	d3	e	l2 ≈	l3	l4	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	Axial load in N	⚖
GN 414-6-6-*	6	6	M 12 x 1.5	28	21.9	56	22	6	19	6.5	19	120	44
GN 414-6-9-*	6	9	M 12 x 1.5	28	21.9	56	22	6	19	6	25	120	45
GN 414-8-8-*	8	8	M 16 x 1.5	28	21.9	62	26	8	19	8.5	26	120	70
GN 414-8-12-*	8	12	M 16 x 1.5	28	21.9	62	26	8	19	8.5	28	120	72
GN 414-10-12-*	10	12	M 16 x 1.5	28	21.9	62	26	8	19	9.5	38	120	74

GN 414-NI

STAINLESS STEEL

Description	d1 Pin -0.02/-0.04 Bore H7	l1 min.	d2	d3	e	l2 ≈	l3	l4	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	Axial load in N	⚖
GN 414-6-6-*-NI	6	6	M 12 x 1.5	28	21.9	56	22	6	19	6.5	19	120	44
GN 414-6-9-*-NI	6	9	M 12 x 1.5	28	21.9	56	22	6	19	6	25	120	45
GN 414-8-8-*-NI	8	8	M 16 x 1.5	28	21.9	62	26	8	19	8.5	26	120	70
GN 414-8-12-*-NI	8	12	M 16 x 1.5	28	21.9	62	26	8	19	8.5	28	120	72
GN 414-10-12-*-NI	10	12	M 16 x 1.5	28	21.9	62	26	8	19	9.5	38	120	74

Weight type A

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Locking plungers

Pin in normal position protruded

SPECIFICATION

Types

- Type **A**: Operation with knob, sleeve black, without lock nut
- Type **AK**: Operation with knob, sleeve black, with lock nut
- Type **AR**: Operation with knob, sleeve red, without lock nut
- Type **ARK**: Operation with knob, sleeve red, with lock nut
- Type **B**: Operation with key, sleeve black, without lock nut
- Type **BK**: Operation with key, sleeve black, with lock nut

Threaded body
Steel zinc plated, blue passivated

Pin
Stainless Steel AISI 303

Spring
Stainless Steel AISI 301

Knob
Plastic (Polyamide PA)

- black, matt
- not removable

Sleeve
Plastic (Polyamid PA)

- black, matt or red
- not removable

INFORMATION

If not operated, the plunger of the locking plungers GN 816 protrudes. To retract, move against the spring force and hold in the end position by turning by 90°.
The shape of the cam curve secures the plunger against accidental operation.
When operating the button (Type AR/ARK), to visible **red** covering sleeve indicates the locing status: Indexing pin does **not** protrude.
For the execution with operation with key (Type B / BK) a key is required to move the plunger. In this execution, a cover sleeve provides additional security and safety from unauthorized removal of the locking plunger. The cover sleeve also provides additional protection against malfunction caused by dirt.
- Range of indexing plungers (see page 738)

ACCESSORY

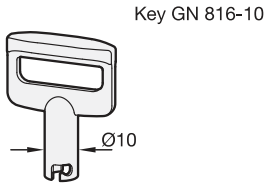
Keys **GN 816-10**
Plastic (Polyamide PA)
(Locking plungers Ø 6 and Ø 8 have the same keys)

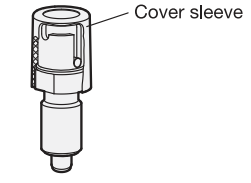
TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)
- Load rating information (see page A42)

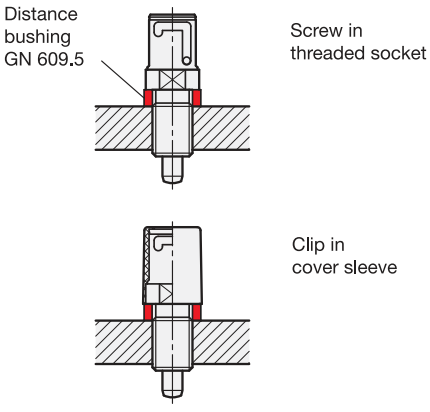
ASSEMBLY INSTRUCTIONS

Version with key (Type B / Type BK)





Assembly instruction



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Type **A / AR**

Plunger protruded

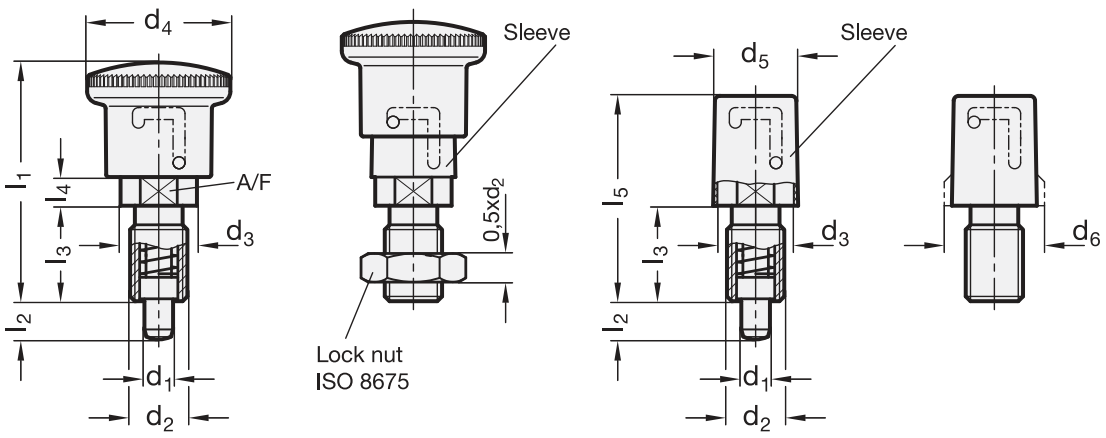
Type **AK / ARK**

Plunger retracted and locked

Type **B**

Plunger protruded

Plunger retracted and locked



GN 816

Description	d1 Pin 0/-0.05 Bore +0.15/+0.07	d2	d3	d4	d5	d6	l1 ≈	l2	l3	l4 ≈	l5	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 816-6-M12x1,5-A	6	M 12 x 1.5	16	28	-	-	50	8	20	6	-	14	13	28	50
GN 816-8-M12x1,5-A	8	M 12 x 1.5	16	28	-	-	50	8	20	6	-	14	13	28	20
GN 816-8-M16x1,5-A	8	M 16 x 1.5	18	28	-	-	52	10	22	6	-	16	14	38	60
GN 816-10-M16x1,5-A	10	M 16 x 1.5	18	28	-	-	52	10	22	6	-	16	14	38	64
GN 816-6-M12x1,5-AK	6	M 12 x 1.5	16	28	-	-	50	8	20	6	-	14	13	28	40
GN 816-8-M12x1,5-AK	8	M 12 x 1.5	16	28	-	-	50	8	20	6	-	14	13	28	29
GN 816-8-M16x1,5-AK	8	M 16 x 1.5	18	28	-	-	52	10	22	6	-	16	14	38	80
GN 816-10-M16x1,5-AK	10	M 16 x 1.5	18	28	-	-	52	10	22	6	-	16	14	38	81
GN 816-6-M12x1,5-AR	6	M 12 x 1.5	16	28	-	-	50	8	20	6	-	14	13	28	42
GN 816-8-M12x1,5-AR	8	M 12 x 1.5	16	28	-	-	50	8	20	6	-	14	13	28	20
GN 816-8-M16x1,5-AR	8	M 16 x 1.5	18	28	-	-	52	10	22	6	-	16	14	38	50
GN 816-10-M16x1,5-AR	10	M 16 x 1.5	18	28	-	-	52	10	22	6	-	16	14	38	20
GN 816-6-M12x1,5-ARK	6	M 12 x 1.5	16	28	-	-	50	8	20	6	-	14	13	28	190
GN 816-8-M12x1,5-ARK	8	M 12 x 1.5	16	28	-	-	50	8	20	6	-	14	13	28	29
GN 816-8-M16x1,5-ARK	8	M 16 x 1.5	18	28	-	-	52	10	22	6	-	16	14	38	80
GN 816-10-M16x1,5-ARK	10	M 16 x 1.5	18	28	-	-	52	10	22	6	-	16	14	38	20
GN 816-6-M12x1,5-B	6	M 12 x 1.5	16	-	-	-	-	8	20	-	43	14	13	28	30
GN 816-8-M12x1,5-B	8	M 12 x 1.5	16	-	-	-	-	8	20	-	43	14	13	28	42
GN 816-8-M16x1,5-B	8	M 16 x 1.5	18	-	17	20	-	10	22	-	48	16	14	38	50
GN 816-10-M16x1,5-B	10	M 16 x 1.5	18	-	17	20	-	10	22	-	48	16	14	38	71
GN 816-6-M12x1,5-BK	6	M 12 x 1.5	16	-	17	-	-	8	20	-	43	14	13	28	30
GN 816-8-M12x1,5-BK	8	M 12 x 1.5	16	-	17	-	-	8	20	-	43	14	13	28	42
GN 816-8-M16x1,5-BK	8	M 16 x 1.5	18	-	17	20	-	10	22	-	48	16	14	38	50
GN 816-10-M16x1,5-BK	10	M 16 x 1.5	18	-	17	20	-	10	22	-	48	16	14	38	71

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Locking plungers

Pin in normal position retracted

SPECIFICATION

Types

- Type **A**: Operation with knob, sleeve black, without lock nut
- Type **AK**: Operation with knob, sleeve black, with lock nut
- Type **AR**: Operation with knob, sleeve red, without lock nut
- Type **ARK**: Operation with knob, sleeve red, with lock nut
- Type **B**: Operation with key, sleeve black without lock nut
- Type **BK**: Operation with key, sleeve black, with lock nut

Threaded body
Steel zinc plated, blue passivated

Pin
Stainless Steel AISI 303

Spring
Stainless Steel AISI 301

Knob
Plastic (Polyamide PA)

- black, matt
- not removable

Sleeve
Plastic (Polyamid PA)

- black, matt or red
- not removable

INFORMATION

If not operated, the plunger of the locking plungers GN 816.1 protrudes. To retract, move against the spring force and hold in the end position by turning by 90°.
The shape of the cam curve secures the plunger against accidental operation.
When operating button (Type AR / ARK), the visible **red** covering sleeve indicates the locking status: Indexing pin does **not** protrude.
For the execution with operation with key (Type B / BK) a key is required to move the plunger. In this execution, a cover sleeve provides additional security and safety from unauthorized removal of the locking plunger. The cover sleeve also provides additional protection against malfunction caused by dirt.
- Range of indexing plungers (see page 738)

ACCESSORY

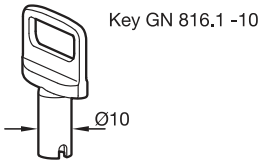
Keys **GN 816.1-10**
Plastic (Polyamide PA)
(Locking plungers Ø 6 and Ø 8 have the same keys)

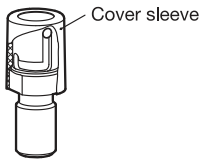
TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)
- Load rating information (see page A42)

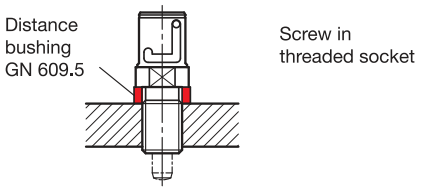
ASSEMBLY INSTRUCTION

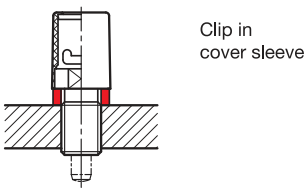
Version with key (Type B / Type BK)





Assembly instruction





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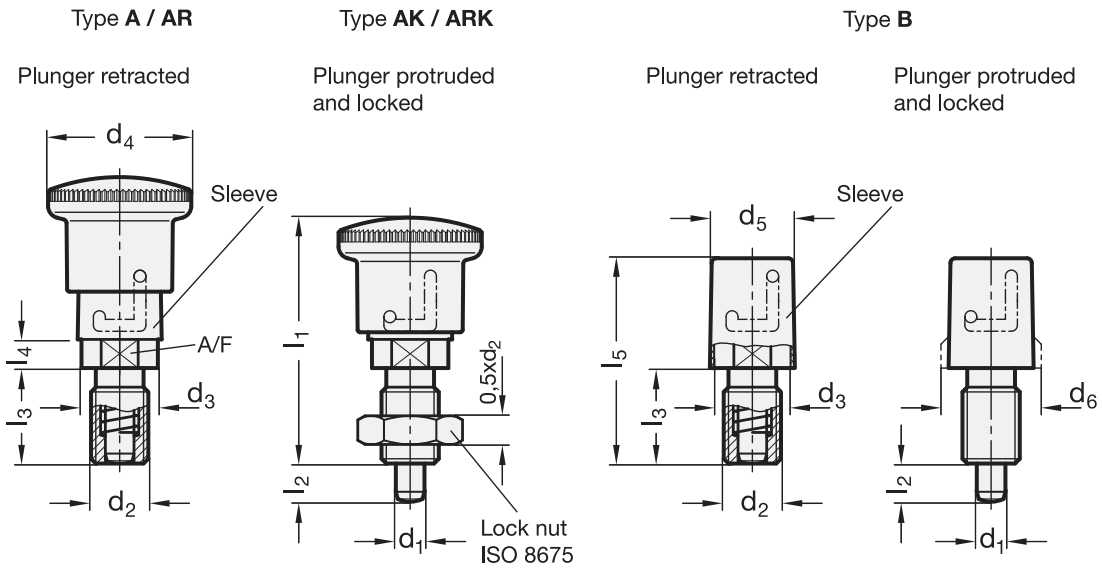
GN 816.1 | Locking plungers



GN 816.1

Description	d1 Pin 0/-0.05 Bore +0.15/+0.07	d2	d3	d4	d5	d6	l1 ≈	l2	l3	l4 ≈	l5	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 816.1-6-M12x1,5-A	6	M 12 x 1.5	16	28	-	-	51.5	8	20	6	-	14	12	27	50
GN 816.1-8-M16x1,5-A	8	M 16 x 1.5	18	28	-	-	54.5	10	22	6	-	16	12	35	50
GN 816.1-6-M12x1,5-AK	6	M 12 x 1.5	16	28	-	-	51.5	8	20	6	-	14	12	27	55
GN 816.1-8-M16x1,5-AK	8	M 16 x 1.5	18	28	-	-	54.5	10	22	6	-	16	12	35	80
GN 816.1-6-M12x1,5-AR	6	M 12 x 1.5	16	28	-	-	51.5	8	20	6	-	14	12	27	50
GN 816.1-8-M16x1,5-AR	8	M 16 x 1.5	18	28	-	-	54.5	10	22	6	-	16	12	35	50
GN 816.1-6-M12x1,5-ARK	6	M 12 x 1.5	16	28	-	-	51.5	8	20	6	-	14	12	27	55
GN 816.1-8-M16x1,5-ARK	8	M 16 x 1.5	18	28	-	-	54.5	10	22	6	-	16	12	35	80
GN 816.1-6-M12x1,5-B	6	M 12 x 1.5	16	-	17	-	-	8	20	-	43	14	12	27	43
GN 816.1-8-M16x1,5-B	8	M 16 x 1.5	18	-	17	20	-	10	22	-	48	16	12	35	50
GN 816.1-6-M12x1,5-BK	6	M 12 x 1.5	16	-	17	-	-	8	20	-	43	14	12	27	43
GN 816.1-8-M16x1,5-BK	8	M 16 x 1.5	18	-	17	20	-	10	22	-	48	16	12	35	70

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Indexing plungers

Steel / Stainless Steel, with click-type safety lock, unlocking with push-button

SPECIFICATION

Types

- Type **A**: without lock nut
- Type **AK**: with lock nut

Version in Steel

- blackened
- Pin hardened

Version in Stainless Steel AISI 303 NI

Pin chemically nickel plated

Knob
Plastic (Polyamide PA)

- black matt finish
- not removable
- black grey, RAL 7021, matt

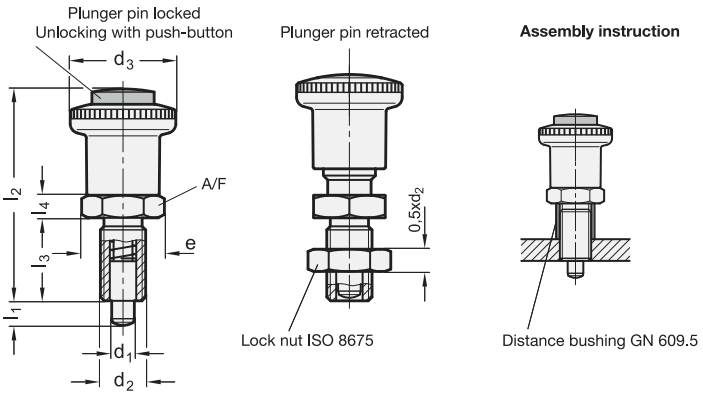
Push-button
Technopolymer (Polyacetal POM)
red, RAL 3000, matt

INFORMATION

Indexing plungers GN 414.1 with click-type safety lock are used when the plunger pin is to be briefly prevented from protruding. When the pin is retracted to its end position, the button engages with a clearly audible click.
The safety lock can be unlocked only by exerting axial pressure on the red safety pushbutton, with the plunger pin then returning to its starting position by spring force.
- Range of indexing plungers (see page 738)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)



*Complete with type index of the Indexing plungers (A or AK)

A	AK
without lock nut	with lock nut

GN 414.1

Description	d1 Pin -0.02/-0.04 Bore H7	l1 min.	d2	d3	e	l2 ≈	l3	l4	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 414.1-6-6-*	6	6	M 12 x 1.5	30	21.9	53.5	22	6	19	6.5	19	47
GN 414.1-6-9-*	6	9	M 12 x 1.5	30	21.9	53.5	22	6	19	6	25	48
GN 414.1-8-8-*	8	8	M 16 x 1.5	30	21.9	59.5	26	8	19	8.5	26	74
GN 414.1-8-12-*	8	12	M 16 x 1.5	30	21.9	59.5	26	8	19	8.5	28	77
GN 414.1-10-12-*	10	12	M 16 x 1.5	30	21.9	59.5	26	8	19	9.5	38	78

GN 414.1-NI

STAINLESS STEEL

Description	d1 Pin -0.02/-0.04 Bore H7	l1 min.	d2	d3	e	l2 ≈	l3	l4	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 414.1-6-6-*-NI	6	6	M 12 x 1.5	30	21.9	53.5	22	6	19	6.5	19	47
GN 414.1-6-9-*-NI	6	9	M 12 x 1.5	30	21.9	53.5	22	6	19	6	25	49
GN 414.1-8-8-*-NI	8	8	M 16 x 1.5	30	21.9	59.5	26	8	19	8.5	26	75
GN 414.1-8-12-*-NI	8	12	M 16 x 1.5	30	21.9	59.5	26	8	19	8.5	28	78
GN 414.1-10-12-*-NI	10	12	M 16 x 1.5	30	21.9	59.5	26	8	19	9.5	38	79

Weight type A

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GN 514

Locking plungers

with PUSH-PUSH locking mechanism

SPECIFICATION

Types

- Type **A**: without lock nut
- Type **AK**: with lock nut

Steel

- nitrided
- blackened

Knob
Plastic (Polyamide PA)
black, matt

INFORMATION

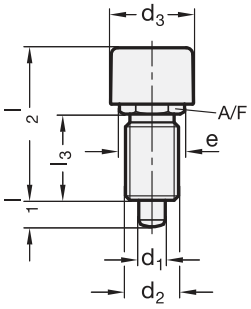
The indexing pin in the locking plungers GN 514 is moved via a so-called cardioid mechanism.
This mechanism means that the indexing pin is both extended and retracted alone by **pressing** the operating button (PUSH-PUSH locking mechanism).
Please note that the indexing pin **cannot absorb any axial forces** and that it retracts virtually by spring action; the indexing pin must therefore remain free and easy to move.

- Range of indexing plungers (see page 738)

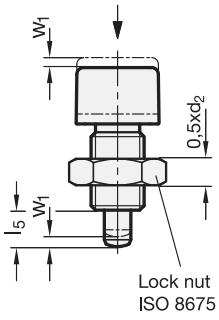
TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Plastic characteristics (see page A2)
- Load rating information (see page A42)

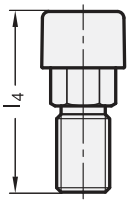
Indexing pin protrudes and is in locking position

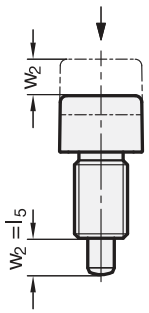


Button pushed by w_1: Indexing pin unlocked



Indexing pin retracted via pressure spring and held in position





Button pushed by w_2: Indexing pin moves back into locking position

GN 514

Description	d1 Pin -0.02/-0.04 Bore H7	d2	d3	e	l1	l2	l3	l4	l5	A/F	w1	w2	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 514-6-A	6	M 12 x 1.5	19	15	6	38	20	44.5	9	13	3	9	8.5	25	28
GN 514-8-A	8	M 16 x 1.5	25	19	8	46	26	54.5	11	17	3	11	18	44	46
GN 514-6-AK	6	M 12 x 1.5	19	15	6	38	20	44.5	9	13	3	9	8.5	25	35
GN 514-8-AK	8	M 16 x 1.5	25	19	8	46	26	54.5	11	17	3	11	18	44	79

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Spring bolts

Steel / Stainless Steel, Pin retracted in normal position

SPECIFICATION

Types

- Type **A**: with knob, without lock nut
- Type **AK**: with knob, with lock nut
- Type **D**: without knob, without lock nut
- Type **DK**: without knob, with lock nut

Identification no.

- Version **1**: Plunger without internal thread
- Version **2**: Plunger with internal thread

Guide (Threaded socket)
Steel **ST**
blackened

Guide (Threaded socket)
Stainless Steel AISI 303 **NI**

Pin
Stainless Steel

- AISI 303
- chemically nickel plated

Knob
Plastic (Polyamide PA)

- black, matt
- not removable

INFORMATION

The pin of the spring bolts GN 313 does not protrude in the inoperative position.
It can be operated manually or in Type D and DK mechanically (pneumatic cylinder, cam plate, etc.) when it will protrude only as long as it is operated.
Using the internal thread at identification 2 on the pressure side, special pressure bolts or a rod arrangement can be operated, for instance.

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)
- Load rating information (see page A42)

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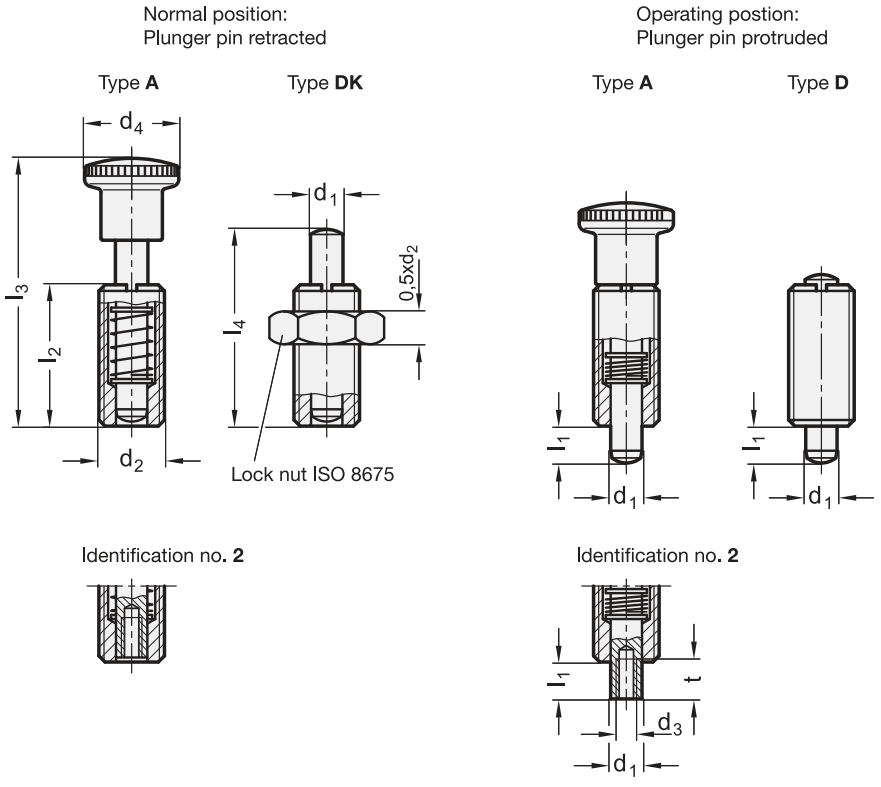
GN 313 | Spring bolts



*Complete with type index of the Indexing plungers (A, AK, D or DK)

A **AK** **D** **DK**

GN 313

Description	d1 Pin -0.02/-0.05 Bore H7	d2	d3	d4	l1	l2	l3 ≈	l4 ≈	t min.	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 313-5-*-1-ST	5	M 10 x 1	-	16	6	22	42	29	-	8	20	13
GN 313-6-*-1-ST	6	M12 x 1.5	-	19	7	26	49	35	-	9	28	21
GN 313-8-*-1-ST	8	M 16 x 1.5	-	23	9	34	65	48	-	12	40	48
GN 313-10-*-1-ST	10	M 20 x 1.5	-	28	11	43	78	57	-	22	50	98
GN 313-5-*-2-ST	5	M 10 x 1	M 3	16	6	22	42	29	7	8	20	13
GN 313-6-*-2-ST	6	M12 x 1.5	M 4	19	7	26	49	35	7	9	28	20
GN 313-8-*-2-ST	8	M 16 x 1.5	M 5	23	9	34	65	48	9	12	40	47
GN 313-10-*-2-ST	10	M 20 x 1.5	M 6	28	11	43	78	57	12	22	50	75

GN 313-NI

STAINLESS STEEL

Description	d1 Pin -0.02/-0.05 Bore H7	d2	d3	d4	l1	l2	l3 ≈	l4 ≈	t min.	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 313-5-*-1-NI	5	M 10 x 1	-	16	6	22	42	29	-	7	18	13
GN 313-6-*-1-NI	6	M12 x 1.5	-	19	7	26	49	35	-	8	21	21
GN 313-8-*-1-NI	8	M 16 x 1.5	-	23	9	34	65	48	-	11	32	48
GN 313-10-*-1-NI	10	M 20 x 1.5	-	28	11	43	78	57	-	18	43	100
GN 313-5-*-2-NI	5	M 10 x 1	M 3	16	6	22	42	29	7	7	18	13
GN 313-6-*-2-NI	6	M12 x 1.5	M 4	19	7	26	49	35	7	8	21	21
GN 313-8-*-2-NI	8	M 16 x 1.5	M 5	23	9	34	65	48	9	11	32	47
GN 313-10-*-2-NI	10	M 20 x 1.5	M 6	28	11	43	78	57	12	18	43	65

Weight type A

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RoHS

Clamping knobs with indexing plungers

SPECIFICATION

Knurled knob GN 7336 (see page)
Plastic (Polyamide PA)
black, matt

Cover
Plastic (Polyamide PA)
light grey, matt

Fixing thread
Steel zinc plated, blue passivated

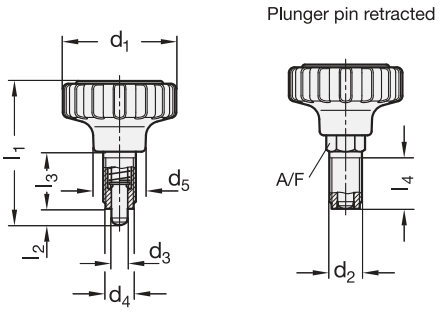
Plunger pin
Stainless Steel AISI 303

INFORMATION

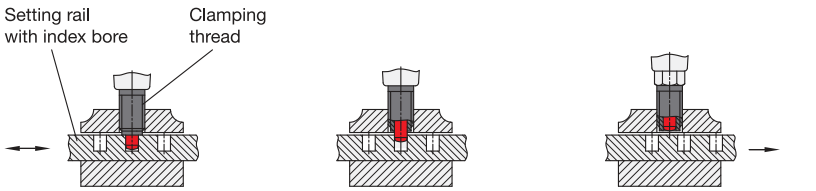
Clamping knobs with indexing plunger GN 7336.7 are used for positioning, securing and clamping adjusting elements at the same time.
The axial movement of the handle (pulling) pulls the indexing pin from the engaged position against the spring force, with the star know at the same time remaining connected with form-lock to the clamping screw via a hexagonal element, allowing both clamping and releasing.
- Range of indexing plungers (see page 738)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)
- Load rating information (see page A42)



Assembly example



Setting rail positioned through indexing plunger, clamped with in position clamping handle

Clamping action released, indexing plunger still engaged

Clamping action released, indexing plunger disengaged, setting rail can be moved

GN 7336.7

Description	d1	d2	d3 Pin -0.02/-0.04 Bore G7	d4	d5	l1	l2	l3	l4 min.	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 7336.7-34-M10x1-5	34	M 10 x 1	5	8.6	15.5	45	5	19	17	10	7	17	25
GN 7336.7-42-M12x1,5-6	42	M 12 x 1.5	6	9.9	19	53	6	21	19	12	9	24	41
GN 7336.7-53-M12x1,5-6	53	M 12 x 1.5	6	9.9	22.5	59	6	21	19	12	9	24	60
GN 7336.7-53-M16x1,5-8	53	M 16 x 1.5	8	13.9	22.5	68	8	28	26	16	11	30	90

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GN 7336.8

Clamping indexing plungers

with safety function

SPECIFICATION

Knurled knob
Plastic (Polyamide PA)
black, matt

Cover
Plastic (Polyamide PA)
light grey, matt

Fixing thread
Steel zinc plated, blue passivated

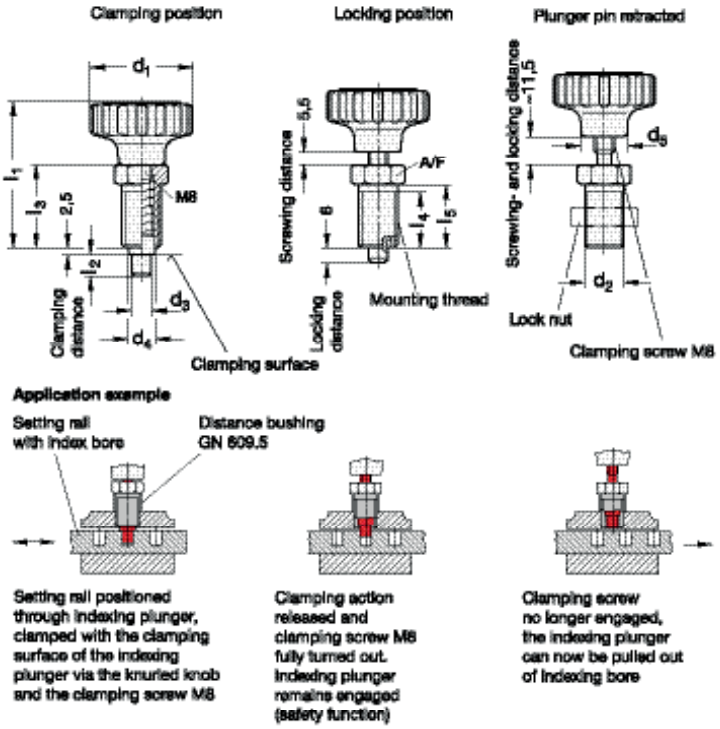
Plunger pin
Steel nitrided and blackened

INFORMATION

Clamping indexing GN 7336.8 plungers are an advanced development of the GN 7336.7 clamping knobs with indexing plunger.
Like the latter, they are used for positioning, securing and clamping adjusting elements at the same time. This configuration ensures that the indexing pin cannot be pulled from the indexing bore by turning the knurled knob, but only be deliberately pulling the handle (safety function).
- Range of indexing plungers (see page 738)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Plastic characteristics (see page A2)
- Load rating information (see page A42)



GN 7336.8

Description	d1	d2	d3 Pin -0.02/-0.04 Bore G7	d4	d5	l1	l2	l3	l4 min.	l5	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 7336.8-42-M16x1,5-6	42	M 16 x 1.5	6	11	19	60	9	34	23	26	19	14	26	90
GN 7336.8-42-M16x1,5-8	42	M 16 x 1.5	8	11	19	60	9	34	23	26	19	14	26	96
GN 7336.8-53-M16x1,5-6	53	M 16 x 1.5	6	11	24	66	9	34	23	26	19	14	26	120
GN 7336.8-53-M16x1,5-8	53	M 16 x 1.5	8	11	24	66	9	34	23	26	19	14	26	120

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PMT.110

Indexing plungers

SUPER-technopolymer body

THREADED BODY
Glass-fibre reinforced polyamide based (PA) SUPER-technopolymer.

PLUNGER
Black-oxide hardened steel or AISI 303 stainless steel.
Suggested tolerance for matching hole = H7.

KNOB
Glass-fibre reinforced polyamide based (PA) technopolymer, grey-black colour, matte finish.

SPRING
AISI 302 stainless steel.

LOCKING NUT NTT
Glass-fibre reinforced polyamide based (PA) SUPER-tecnopolymer.
Available also as accessory sold separately (see table NTT).

STANDARD EXECUTIONS
- **PMT.110-A:** black-oxide steel plunger, without locking nut.
- **PMT.110-AK:** black-oxide steel plunger, with locking nut (supplied not assembled).
- **PMT.110-SST-A:** AISI 303 stainless steel plunger, without locking nut, not magnetic.
- **PMT.110-SST-AK:** AISI 303 stainless steel plunger, with locking nut (supplied not assembled), not magnetic.

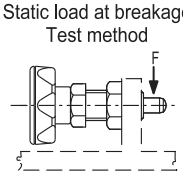
FEATURES AND APPLICATIONS
- Lightness and high mechanical resistance of the product.
- Anticorrosive material: suitable even in the presence of liquid or humidity (PMT.110-SST).
- The SUPER-technopolymer threaded body of the plunger offers a low friction factor to the plunger stroke; no lubricating maintenance is required.
- Resistant to several cleaning cycles with solvents and other chemical agents, for this reason they are suitable for applications as in the pharmaceutical or food industry.

ASSEMBLY INSTRUCTIONS
Make sure that no machining residues are left on the threaded hole for the tightening of PMT.110 indexing plunger (see fig. 1). Do not make any chamfering in the hole (see fig. 2).
SUPER-technopolymer product based on ELESA technology, dimensions of the threaded body and plunger according to GN 612 standards as agreed with Otto Ganter GmbH Co. KG.
ELK knob type: ELESA original design.

ELESA Original design

Fig.1

Static load at breakage
Test method



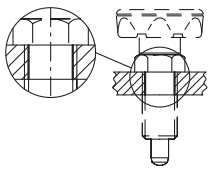
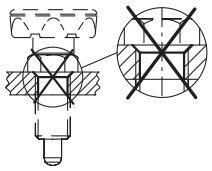
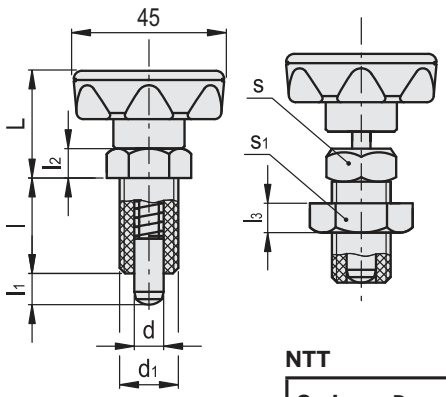


Fig.2



PMT.110-A
PMT.110-SST-A

PMT.110-AK
PMT.110-SST-AK



NTT

Code	Description
301087	NTT-M16x1,5
301089	NTT-M20x1,5

PMT.110

Code	Description	d -0.15 -0.1	d1	L	l	l1	l2	l3	s	s1	[N]*	[N]#	Max. tightening torque [Nm]	Static load at breakage F [N]	⚖
51811	PMT.110-8-M16x1.5-A	8	M16x1.5	34	26	8	8	-	19	-	11	30	18	5900	47
51821	PMT.110-8-M16x1.5-AK	8	M16x1.5	34	26	8	8	10	19	24	11	30	18	5900	51
51812	PMT.110-10-M20x1.5-A	10	M20x1.5	36	33	10	10	-	22	-	19	45	25	7700	62
51822	PMT.110-10-M20x1.5-AK	10	M20x1.5	36	33	10	10	11	22	30	19	45	25	7700	70

PMT.110-SST **STAINLESS STEEL**

51831	PMT.110-SST-8-M16x1.5-A	8	M16x1.5	34	26	8	8	-	19	-	11	30	18	4400	47
51841	PMT.110-SST-8-M16x1.5-AK	8	M16x1.5	34	26	8	8	10	19	24	11	30	18	4400	51
51832	PMT.110-SST-10-M20x1.5-A	10	M20x1.5	36	33	10	10	-	22	-	19	45	25	6800	62
51842	PMT.110-SST-10-M20x1.5-AK	10	M20x1.5	36	33	10	10	11	22	30	19	45	25	6800	70

***** Spring preload

Spring maximum load

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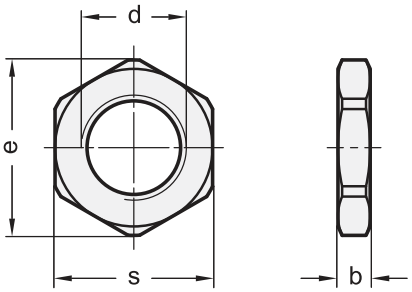
GN 909

Flat hexagonal nuts
for indexing plungers

SPECIFICATION
Steel
blackened **BT**

INFORMATION
With their smaller dimensions, flat hexagonal nuts GN 909 expand the mounting options of indexing plungers and cam action indexing plungers.



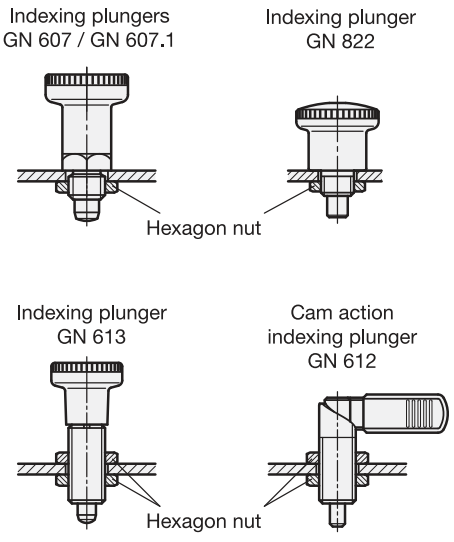
GN 909.5

Stainless Steel-
Flat hexagonal nuts
for indexing plungers

SPECIFICATION
Stainless Steel AISI 303

INFORMATION
With their smaller dimensions, flat hexagonal nuts GN 909.5 expand the mounting options of indexing plungers and cam action indexing plungers.

TECHNICAL INFORMATION
- Stainless Steel characteristics (see page A26)



GN 909

Description	d	b	e	s	⚖
GN 909-M8x1-BT	M 8 x 1	3.5	14.3	13	3
GN 909-M10x1-BT	M 10 x 1	3.5	16.6	15	3
GN 909-M12x1,5-BT	M 12 x 1.5	4	18.9	17	4
GN 909-M16x1,5-BT	M 16 x 1.5	4.5	24.5	22	8
GN 909-M20x1,5-BT	M 20 x 1.5	4.5	29.5	27	11

GN 909.5 **STAINLESS STEEL**

Description	d	b	e	s	⚖
GN 909.5-M8x1	M 8 x 1	3.5	14.3	13	3
GN 909.5-M10x1	M 10 x 1	3.5	16.6	15	3
GN 909.5-M12x1,5	M 12 x 1.5	4	18.9	17	4
GN 909.5-M16x1,5	M 16 x 1.5	4.5	24.5	22	8
GN 909.5-M20x1,5	M 20 x 1.5	4.5	29.5	27	11

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Stainless Steel-
Distance bushings

**for indexing plungers /
cam action indexing plungers assembly**

SPECIFICATION

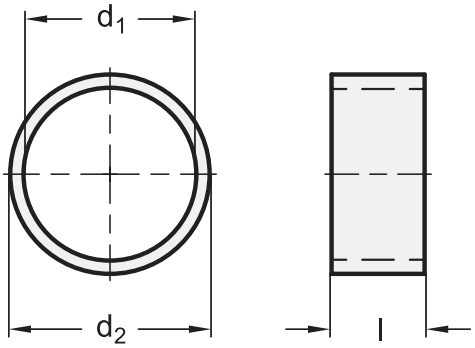
Stainless Steel AISI 303

INFORMATION

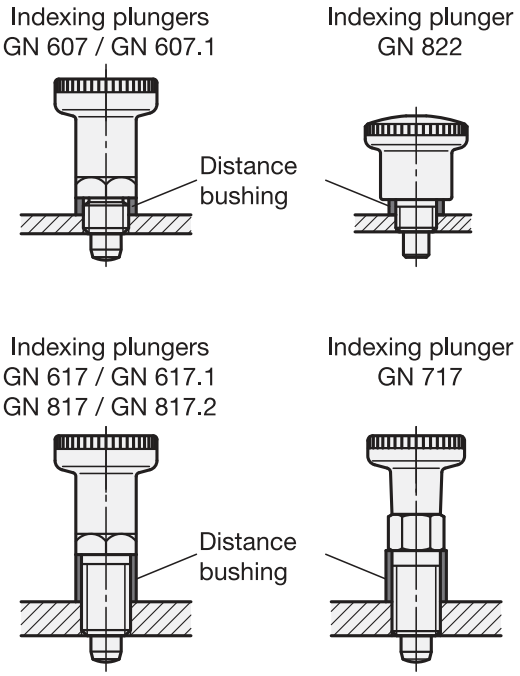
Distance bushings GN 609.5 compensate for the body thread length on the indexing plungers to allow mounting through walls of varying thickness.

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)



Examples of application



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GN 609.5 | Stainless Steel-Distance bushings

GN 609.5 **STAINLESS STEEL**

Description	d1 H12	d2 -0.1	l ±0.1	For thread Ø	For indexing plungers	⚖
GN 609.5-6-7-2	6	7	2	M 6	GN 717	1
GN 609.5-6-7-4	6	7	4	M 6	GN 717	1
GN 609.5-6-7-6	6	7	6	M 6	GN 717	1
GN 609.5-6-7-8	6	7	8	M 6	GN 717	1
GN 609.5-8-10-2	8	10	2	M 8	GN 717 / GN 817 / GN 817.2 / GN 822	1
GN 609.5-8-10-4	8	10	4	M 8	GN 717 / GN 817 / GN 817.2 / GN 822	1
GN 609.5-8-10-6	8	10	6	M 8	GN 717 / GN 817 / GN 817.2 / GN 822	1
GN 609.5-8-10-8	8	10	8	M 8	GN 717 / GN 817 / GN 817.2 / GN 822	2
GN 609.5-8-10-10	8	10	10	M 8	GN 717 / GN 817 / GN 817.2 / GN 822	3
GN 609.5-10-12-2	10	12	2	M 10	GN 617 |.1 |.2 / GN 717 / GN 817 |.2 / GN 822 |.1 |.6 |.7	1
GN 609.5-10-12-4	10	12	4	M 10	GN 617 |.1 |.2 / GN 717 / GN 817 |.2 / GN 822 |.1 |.6 |.7	2
GN 609.5-10-12-6	10	12	6	M 10	GN 617 |.1 |.2 / GN 717 / GN 817 |.2 / GN 822 |.1 |.6 |.7	2
GN 609.5-10-12-8	10	12	8	M 10	GN 617 |.1 |.2 / GN 717 / GN 817 |.2 / GN 822 |.1 |.6 |.7	2
GN 609.5-10-12-10	10	12	10	M 10	GN 617 |.1 |.2 / GN 717 / GN 817 |.2 / GN 822 |.1 |.6 |.7	3
GN 609.5-10-12-12	10	12	12	M 10	GN 617 |.1 |.2 / GN 717 / GN 817 |.2 / GN 822 |.1 |.6 |.7	3
GN 609.5-12-14-2	12	14	2	M 12	GN 617 |.1 |.2 / GN 717 / PMT.200 / GN 816 |.1 / GN 817 |.2 |.4|.8 / GN 514 / GN 612.8 / GN 822 |.1 |.6 |.7	1
GN 609.5-12-14-4	12	14	4	M 12	GN 617 |.1 |.2 / GN 717 / PMT.200 / GN 816 |.1 / GN 817 |.2 |.4|.8 / GN 514 / GN 612.8 / GN 822 |.1 |.6 |.7	1
GN 609.5-12-14-6	12	14	6	M 12	GN 617 |.1 |.2 / GN 717 / PMT.200 / GN 816 |.1 / GN 817 |.2 |.4|.8 / GN 514 / GN 612.8 / GN 822 |.1 |.6 |.7	2
GN 609.5-12-14-8	12	14	8	M 12	GN 617 |.1 |.2 / GN 717 / PMT.200 / GN 816 |.1 / GN 817 |.2 |.4|.8 / GN 514 / GN 612.8 / GN 822 |.1 |.6 |.7	2
GN 609.5-12-14-10	12	14	10	M 12	GN 617 |.1 |.2 / GN 717 / PMT.200 / GN 816 |.1 / GN 817 |.2 |.4|.8 / GN 514 / GN 612.8 / GN 822 |.1 |.6 |.7	2
GN 609.5-12-14-12	12	14	12	M 12	GN 617 |.1 |.2 / GN 717 / PMT.200 / GN 816 |.1 / GN 817 |.2 |.4|.8 / GN 514 / GN 612.8 / GN 822 |.1 |.6 |.7	4
GN 609.5-12-14-14	12	14	14	M 12	GN 617 |.1 |.2 / GN 717 / PMT.200 / GN 816 |.1 / GN 817 |.2 |.4|.8 / GN 514 / GN 612.8 / GN 822 |.1 |.6 |.7	4
GN 609.5-12-17-2	12	17	2	M 12	GN 414 |.1 / GN 607 |.1	2
GN 609.5-12-17-4	12	17	4	M 12	GN 414 |.1 / GN 607 |.1	3
GN 609.5-12-17-5	12	17	5	M 12	GN 414 |.1 / GN 607 |.1	4
GN 609.5-12-17-6	12	17	6	M 12	GN 414 |.1 / GN 607 |.1	6
GN 609.5-12-17-8	12	17	8	M 12	GN 414 |.1 / GN 607 |.1	7
GN 609.5-12-17-10	12	17	10	M 12	GN 414 |.1 / GN 607 |.1	8
GN 609.5-12-17-12	12	17	12	M 12	GN 414 |.1 / GN 607 |.1	10
GN 609.5-16-17-2	16	17	2	M 16	GN 514 / GN 717 / GN 816 |.1 / GN 817 |.2 |.4|.8 / GN 822 |.1 |.6 |.7|.8	1
GN 609.5-16-17-4	16	17	4	M 16	GN 514 / GN 717 / GN 816 |.1 / GN 817 |.2 |.4|.8 / GN 822 |.1 |.6 |.7|.8	1
GN 609.5-16-17-6	16	17	6	M 16	GN 514 / GN 717 / GN 816 |.1 / GN 817 |.2 |.4|.8 / GN 822 |.1 |.6 |.7|.8	1
GN 609.5-16-17-8	16	17	8	M 16	GN 514 / GN 717 / GN 816 |.1 / GN 817 |.2 |.4|.8 / GN 822 |.1 |.6 |.7|.8	1
GN 609.5-16-17-10	16	17	10	M 16	GN 514 / GN 717 / GN 816 |.1 / GN 817 |.2 |.4|.8 / GN 822 |.1 |.6 |.7|.8	2
GN 609.5-16-17-12	16	17	12	M 16	GN 514 / GN 717 / GN 816 |.1 / GN 817 |.2 |.4|.8 / GN 822 |.1 |.6 |.7|.8	2
GN 609.5-16-19-2	16	19	2	M 16	GN 414 |.1 / GN 607 |.1 / GN 612.8 / PMT.200 / GN 617 |.1 |.2 / GN 7336.8 / GN 816.1 / GN 822 |.1 |.6 |.7	1
GN 609.5-16-19-4	16	19	4	M 16	GN 414 |.1 / GN 607 |.1 / GN 612.8 / PMT.200 / GN 617 |.1 |.2 / GN 7336.8 / GN 816.1 / GN 822 |.1 |.6 |.7	2
GN 609.5-16-19-6	16	19	6	M 16	GN 414 |.1 / GN 607 |.1 / GN 612.8 / PMT.200 / GN 617 |.1 |.2 / GN 7336.8 / GN 816.1 / GN 822 |.1 |.6 |.7	4
GN 609.5-16-19-8	16	19	8	M 16	GN 414 |.1 / GN 607 |.1 / GN 612.8 / PMT.200 / GN 617 |.1 |.2 / GN 7336.8 / GN 816.1 / GN 822 |.1 |.6 |.7	5
GN 609.5-16-19-10	16	19	10	M 16	GN 414 |.1 / GN 607 |.1 / GN 612.8 / PMT.200 / GN 617 |.1 |.2 / GN 7336.8 / GN 816.1 / GN 822 |.1 |.6 |.7	6
GN 609.5-16-19-12	16	19	12	M 16	GN 414 |.1 / GN 607 |.1 / GN 612.8 / PMT.200 / GN 617 |.1 |.2 / GN 7336.8 / GN 816.1 / GN 822 |.1 |.6 |.7	7
GN 609.5-20-22-6	20	22	6	M 20	GN 612.8 / GN 617 |.1 |.2 / GN 817 |.2 |.4|.8	3
GN 609.5-20-22-8	20	22	8	M 20	GN 612.8 / GN 617 |.1 |.2 / GN 817 |.2 |.4|.8	4
GN 609.5-20-22-10	20	22	10	M 20	GN 612.8 / GN 617 |.1 |.2 / GN 817 |.2 |.4|.8	10
GN 609.5-20-22-12	20	22	12	M 20	GN 612.8 / GN 617 |.1 |.2 / GN 817 |.2 |.4|.8	6
GN 609.5-20-22-14	20	22	14	M 20	GN 612.8 / GN 617 |.1 |.2 / GN 817 |.2 |.4|.8	7
GN 609.5-20-22-16	20	22	16	M 20	GN 612.8 / GN 617 |.1 |.2 / GN 817 |.2 |.4|.8	9
GN 609.5-20-22-18	20	22	18	M 20	GN 612.8 / GN 617 |.1 |.2 / GN 817 |.2 |.4|.8	9

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Positioning bushings with ramping cone

for indexing plungers

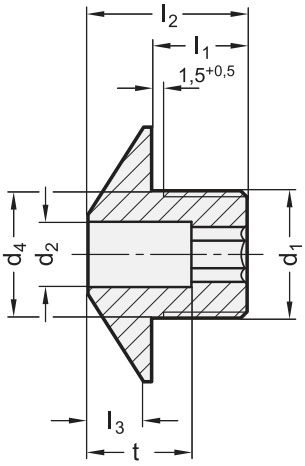
SPECIFICATION

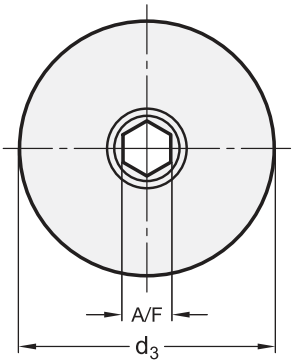
Steel

- hardened
- blackened

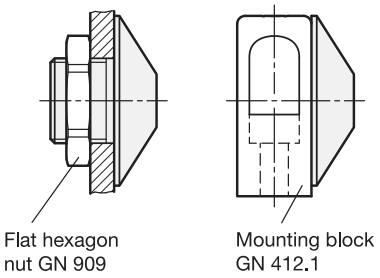
INFORMATION

Positioning bushings with ramping cone GN 412.3 are used in connection with bolts of indxing plungers.
The threads are adapted to the mounting blocks GN 412.1 (see page 814) and GN 612.1 (see page 815).

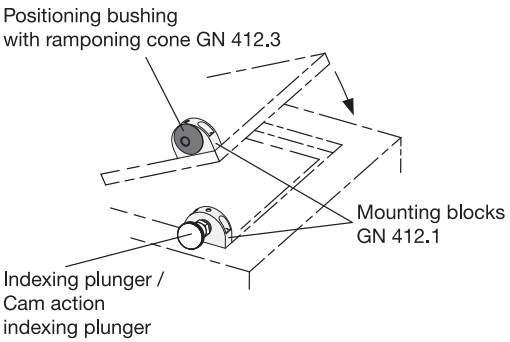




Assembly examples



Application example



GN 412.3

Description	d1	d2 +0.1	d3	d4 -0.05	l1	l2	l3	A/F	t	⚖
GN 412.3-M12x1,5-B5,2	M 12 x 1.5	B 5.2	24	12	10	16	5	4	11	16
GN 412.3-M12x1,5-B6,2	M 12 x 1.5	B 6.2	24	12	10	16	5	4	11	16
GN 412.3-M16x1,5-B8,2	M 16 x 1.5	B 8.2	32	16	12	20	7	6	13	36
GN 412.3-M16x1,5-B10,2	M 16 x 1.5	B 10.2	32	16	12	20	7	6	13	35

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GN 412.2

Positioning bushings

for indexing plungers / cam action indexing plungers

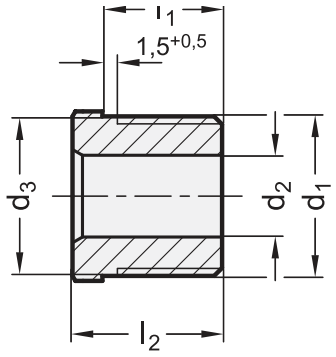
SPECIFICATION

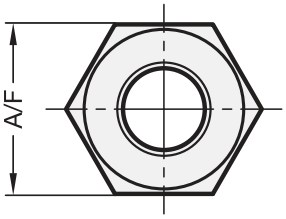
Steel

- hardened
- blackened

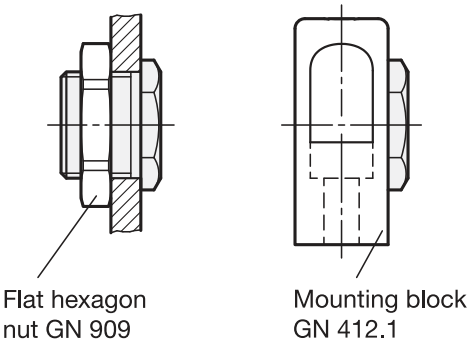
INFORMATION

Positioning bushings GN 412.2 are used in connection with bolts of indxing plungers and cam action indexing plungers.
The threads are adapted to the mounting blocks GN 412.1 (see page 814) and GN 612.1 (see page 815).

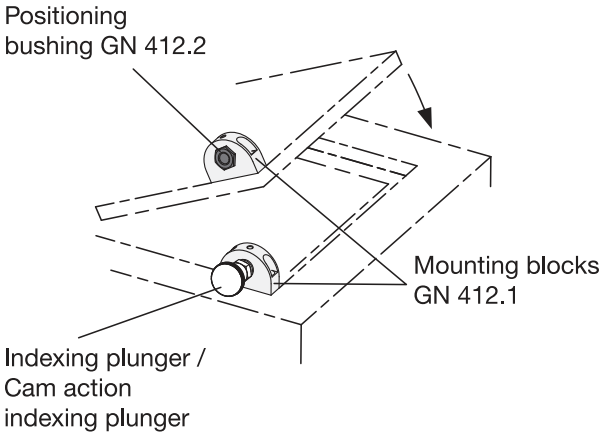




Assembly examples



Application example



GN 412.2

Description	d1	d2 +0.1	d3 -0.05	l1 -0.2	l2	A/F	⚖
GN 412.2-M12x1,5-B4,2	M 12 x 1.5	B 4.2	12	10	13	13	11
GN 412.2-M12x1,5-B5,2	M 12 x 1.5	B 5.2	12	10	13	13	11
GN 412.2-M12x1,5-B6,2	M 12 x 1.5	B 6.2	12	10	13	13	10
GN 412.2-M16x1,5-B8,2	M 16 x 1.5	B 8.2	16	12	15	17	19
GN 412.2-M16x1,5-B10,2	M 16 x 1.5	B 10.2	16	12	15	17	15
GN 412.2-M16x1,5-B12,2	M 16 x 1.5	B 12.2	16	12	15	17	10

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Mounting blocks

for indexing plungers / cam action indexing plungers

SPECIFICATION

Identification no.

- No. **1**: Mounting from the front
- No. **2**: Mounting from the back

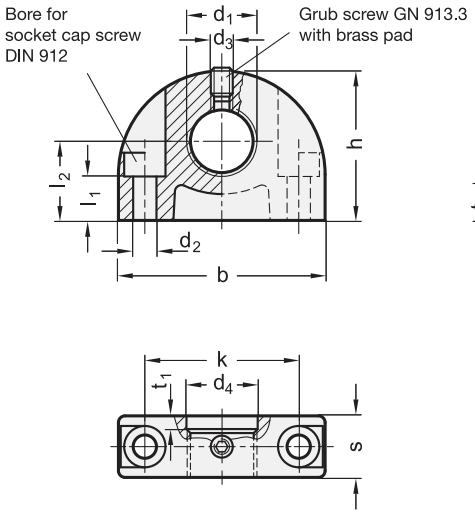
Zinc die casting

plastic coated
black, textured finish

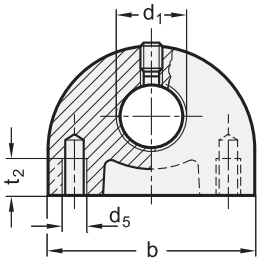
INFORMATION

Mounting blocks GN 412.1 are reasonably priced fitting aid for indexing plungers, cam action indexing plungers and for setting bolts and buffers.
To position the indexing pin of an indexing plunger or cam action indexing plunger, they can also hold positioning bushings GN 412.2 (see page 813).

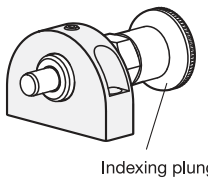
Identification no. **1**



Identification no. **2**



Application example



GN 412.1

Description	b	d1	d2	d3	d4	d5	h	k	l1	l2	s	t1	t2 min.	⚖
GN 412.1-35-M8-1	35	M 8	4.3	M 4	8.2	-	26	25	6	14	12	2	-	40
GN 412.1-35-M8x1-1	35	M 8 x 1	4.3	M 4	8.2	-	26	25	6	14	12	2	-	39
GN 412.1-35-M10-1	35	M 10	4.3	M 4	10.2	-	26	25	6	14	12	2	-	38
GN 412.1-35-M10x1-1	35	M 10 x 1	4.3	M 4	10.2	-	26	25	6	14	12	2	-	39
GN 412.1-35-M12-1	35	M 12	4.3	M 4	12.2	-	26	25	6	14	12	3	-	35
GN 412.1-35-M12x1,5-1	35	M 12 x 1.5	4.3	M 4	12.2	-	26	25	6	14	12	3	-	37
GN 412.1-47-M16-1	47	M 16	5.3	M 5	16.2	-	34	35	10	18	14	3	-	76
GN 412.1-47-M16x1,5-1	47	M 16 x 1.5	5.3	M 5	16.2	-	34	35	10	18	14	3	-	71
GN 412.1-47-M20x1,5-1	47	M 20 x 1.5	5.3	M 5	20.2	-	34	35	10	18	14	3	-	68
GN 412.1-35-M8-2	35	M 8	-	M 4	8.2	M 5	26	25	-	14	12	2	10	48
GN 412.1-35-M8x1-2	35	M 8 x 1	-	M 4	8.2	M 5	26	25	-	14	12	2	10	48
GN 412.1-35-M10-2	35	M 10	-	M 4	10.2	M 5	26	25	-	14	12	2	10	46
GN 412.1-35-M10x1-2	35	M 10 x 1	-	M 4	10.2	M 5	26	25	-	14	12	2	10	46
GN 412.1-35-M12-2	35	M 12	-	M 4	12.2	M 5	26	25	-	14	12	3	12	44
GN 412.1-35-M12x1,5-2	35	M 12 x 1.5	-	M 4	12.2	M 5	26	25	-	14	12	3	12	44
GN 412.1-47-M16-2	47	M 16	-	M 5	16.2	M 6	34	35	-	18	14	3	12	90
GN 412.1-47-M16x1,5-2	47	M 16 x 1.5	-	M 5	16.2	M 6	34	35	-	18	14	3	12	70
GN 412.1-47-M20x1,5-2	47	M 20 x 1.5	-	M 5	20.2	M 6	34	35	-	18	14	3	12	79

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GN 612.1

Mounting blocks

Steel / Stainless Steel, for indexing plungers / cam action indexing plungers

SPECIFICATION

Types

- Type **A**: fixing holes parallel to plunger
- Type **B**: fixing holes vertical to plunger

Version in Steel

- blackened
- Grub screw GN 913.3 with brass pad (see page 921)

Version in Stainless Steel AISI 303 NI

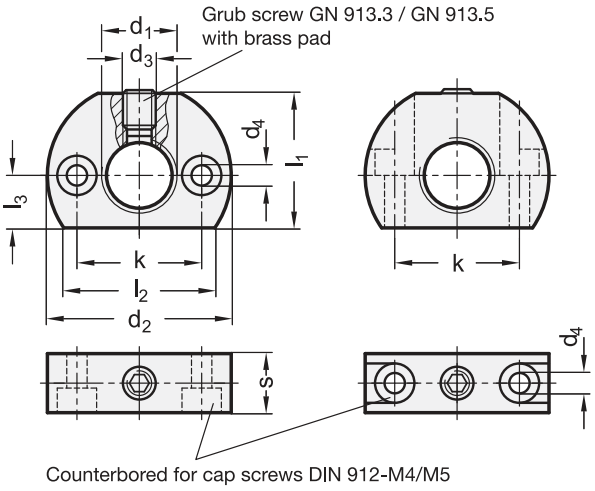
Grub screw GN 913.5 with brass pad (see page 922)

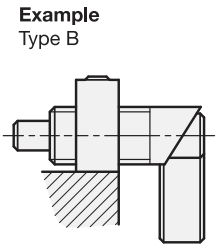
INFORMATION

Mounting blocks GN 612.1 broaden the mounting possibilities and are and added feature for the cam action indexing plungers GN 612 (see page 820) and cam action indexing plungers GN 712 (see page 823) / GN 712.1 (see page 824).
To position the indexing pin of an indexing plunger or cam action indexing plunger, they can also hold GN 412.2 (see page 813) positioning bushings.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)





GN 612.1

Description	d1	d2	d3	d4	k ±0.1	l1	l2 ≈	l3	s	⚖
GN 612.1-M12x1,5-A	M 12 x 1.5	32	M 5	4.5	21	22	26.5	9	12	44
GN 612.1-M16x1,5-A	M 16 x 1.5	46	M 8	5.5	32	33	37	13	15	122
GN 612.1-M20x1,5-A	M 20 x 1.5	46	M 8	5.5	32	33	37	13	15	95
GN 612.1-M12x1,5-B	M 12 x 1.5	32	M 5	4.5	21	22	26.5	9	12	30
GN 612.1-M16x1,5-B	M 16 x 1.5	46	M 8	5.5	32	33	37	13	15	107
GN 612.1-M20x1,5-B	M 20 x 1.5	46	M 8	5.5	32	33	37	13	15	94

GN 612.1-NI **STAINLESS STEEL**

Description	d1	d2	d3	d4	k ±0.1	l1	l2 ≈	l3	s	⚖
GN 612.1-M12x1,5-A-NI	M 12 x 1.5	32	M 5	4.5	21	22	26.5	9	12	43
GN 612.1-M16x1,5-A-NI	M 16 x 1.5	46	M 8	5.5	32	33	37	13	15	121
GN 612.1-M20x1,5-A-NI	M 20 x 1.5	46	M 8	5.5	32	33	37	13	15	110
GN 612.1-M12x1,5-B-NI	M 12 x 1.5	32	M 5	4.5	21	22	26.5	9	12	37
GN 612.1-M16x1,5-B-NI	M 16 x 1.5	46	M 8	5.5	32	33	37	13	15	56
GN 612.1-M20x1,5-B-NI	M 20 x 1.5	46	M 8	5.5	32	33	37	13	15	100

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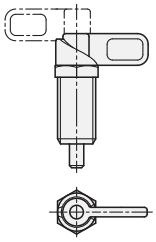
Cam action indexing plungers / Spring latches - Types

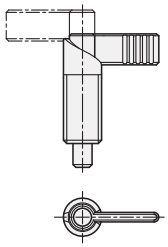
Unlocking by turning the plunger over curves

GN 612.8
see page 825
Ø 4 / 5 / 6 / 8 / 10 / 12



Features:
- Guide zinc die casting with nano®-coating
- Plunger pin steel, zinc plated
- Latch plastic
- Reasonably priced versions

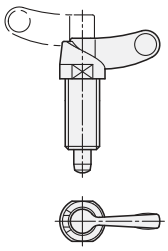
GN 612
GN 612 ... NI
see page 820
Ø 4 / 5 / 6 / 8 / 10 / 12



Features:
- Guide steel, blackened or Stainless Steel
- Plunger pin steel, nitrided resp. Stainless Steel
- Latch steel, blackened resp. Stainless Steel
- Latch with or without plastic cover
- High precision plunger pin guide

PMT.200
Indexing plunger
with lever
see page 822
Ø 4 / 5 / 6 / 8 / 10 / 12

INOX STAINLESS STEEL · SUPER TECHNO POLYMER



Features:
- SUPER-technopolymer threaded body and lever. Lightness and high mechanical strength
- Steel (hardened) or Stainless Steel plunger pin
- Anticorrosive material: suitable even in the presence of liquid or humidity
- Low friction factor to the plunger stroke; no lubricating maintenance is required
- Resistant to several cleaning cycles with solvents and other chemical agents

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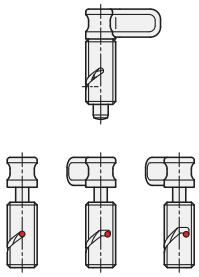
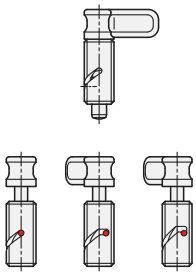
GN 712
see page 823
Ø 6 / 8 / 10
Plunger pin in
standard position
protruded



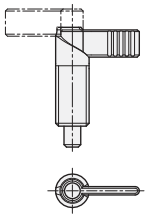
Features:
- Plunger in end positions locked, not locked or arrested and additionally locked (safety version)
- Guide steel, zinc plated
- Plunger pin Stainless Steel
- Latch plastic

GN 712.1
see page 824
Ø 6 / 8 / 10
Plunger pin in
standard position
retracted



GN 721
GN 721.5
see page 826
Ø 5 / 6 / 8 / 10 /
without locking function

INOX STAINLESS STEEL



Features:
- Guide steel, blackened or Stainless Steel
- Plunger pin steel, hardened resp. Stainless Steel
- Latch steel, blackened resp. Stainless Steel
- Right- or left- hand lock
- Latch with or without plastic cover
- High precision plunger pin guide

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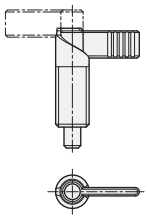
Cam action indexing plungers / Spring latches - Types

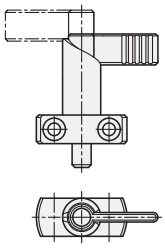
Unlocking by turning the plunger over curves

GN 721.1
GN 721.6
see page 828
Ø 4 / 5 / 6 / 8 / 10 / 12
with locking function



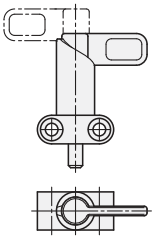
Features:
- Guide steel, blackened or Stainless Steel
- Plunger pin steel, hardened resp. Stainless steel
- Latch steel, blackened resp. Stainless Steel
- Right- or left- hand lock
- Latch with or without plastic cover
- High precision plunger pin guide

GN 612.2
see page 830
Ø 6 / 8 / 10 / 12



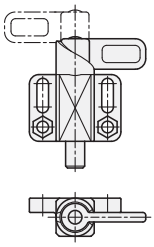
Features:
- Guide steel, blackened
- Plunger pin steel, nitrided
- Latch steel, blackened
- Latch with or without plastic cover

GN 612.9
see page 831
Ø 6 / 8 / 10 / 12



Features:
- Guide, Zinc die casting, black plastic coated
- Plunger pin steel, zinc plated
- Latch plastic
- Reasonably priced versions

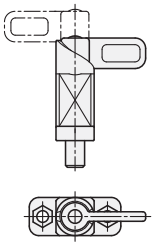
GN 722.3
see page 832
Ø 8 / 10 / 12 / 14



Features:
- Guide steel (fine casting), zinc plated or black plastic coated
- Plunger pin steel, zinc plated
- Latch steel, zinc plated
- Left or or right indexing cam
- Designed for use in „steel construction“ or in „locksmith shops“ i.e. for less precise positioning

---

GN 722.2
see page 834
Ø 8 / 10 / 12 / 14



Features:
- Guide steel (fine casting), zinc plated or black plastic coated
- Plunger pin steel, zinc plated
- Latch position right-angled or paralell to fixing holes
- Designed for use in „steel construction“ or in „locksmith shops“ i.e. for less precise positioning

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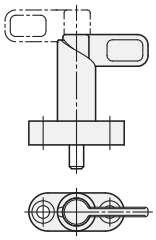
Cam action indexing plungers / Spring latches - Types

Unlocking by turning the plunger over curves

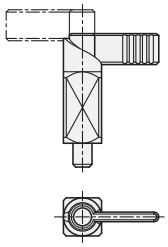
GN 612.10
see page 836
Ø 6 / 8 / 10 / 12



Features:
- Guide, zinc die casting, black plastic coated
- Plunger pin steel, zinc plated
- Latch plastic
- Reasonably priced versions

GN 612.3
GN 612.3 ... NI
see page 820
Ø 6 / 8 / 10 / 12

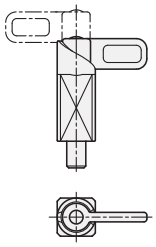
INOX STAINLESS STEEL



Features:
- Cam action indexing plunger for welding
- Guide steel, blackened or Stainless Steel
- Plunger pin steel, nitrided or Stainless Steel
- Latch with or without plastic cover

GN 722.1 ... ST
GN 722.1 ... A4
see page 838
Ø 8 / 10 / 12 / 14

INOX STAINLESS STEEL



Features:
- Cam action indexing plunger for welding
- Guide steel precison casting, blackened or Stainless Steel-precision casting
- Plunger pin steel, zinc plated or Stainless Steel
- Latch steel precison casting, blackened or Stainless Steel-precision casting
- Designed for use in „steel construction“ or in „locksmith shops“ i.e. for less precise positioning

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Cam action indexing plungers

Steel / Stainless Steel

SPECIFICATION

Types

- Type **A**: without plastic cover, without lock nut
- Type **B**: with plastic cover, without lock nut
- Type **AK**: without plastic cover, with lock nut
- Type **BK**: with plastic cover, with lock nut

Version in Steel

- blackened
- Pin nitrided

Version in Stainless Steel AISI 303 NI

Spring
Stainless Steel AISI 301

Plastic cover (Polyamide PA)
black, matt

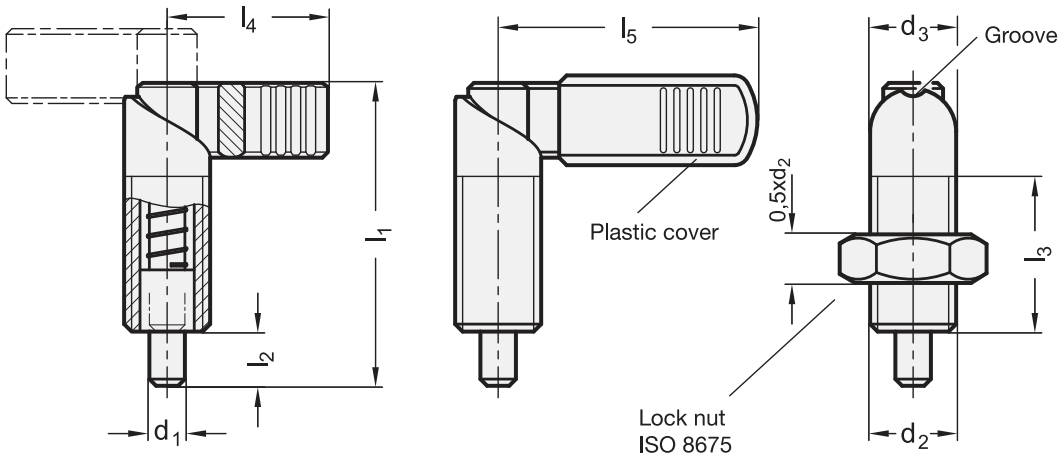
INFORMATION

Cam action indexing plungers GN 612 are used in cases where the locking pin must not protude all the time. By rotating the lock through 180° the locking pin withdraws itself. A groove is provided in either position to prevent the lock from rotating.

- Range of cam action indexing plungers (see page 816)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)
- Load rating information (see page A42)



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GN 612 | Cam action indexing plungers

*Complete with type index of the Cam action indexing plungers
A AK B BK

GN 612

Description	d1 Pin -0.02/-0.04 Bore H7	d2	d3	l1	l2	l3 +1.5	l4	l5	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 612-4-M10-*	4**	M 10	10	37.5	6	19	21	-	7	20	17
GN 612-4-M10x1-*	4**	M 10 x 1	10	37.5	6	19	21	-	7	20	17
GN 612-5-M10-*	5**	M 10	10	37.5	6	19	21	-	7	20	17
GN 612-5-M10x1-*	5**	M 10 x 1	10	37.5	6	19	21	-	7	20	18
GN 612-5-M12-*	5	M 12	12	47	8	26	26	32	8	18	28
GN 612-5-M12x1,5-*	5	M 12 x 1.5	12	47	8	26	26	32	8	18	28
GN 612-6-M10-*	6**	M 10	10	37.5	6	19	21	-	7	20	18
GN 612-6-M10x1-*	6**	M 10 x 1	10	37.5	6	19	21	-	7	20	18
GN 612-6-M12-*	6	M 12	12	47	8	26	26	32	8	18	29
GN 612-6-M12x1,5-*	6	M 12 x 1.5	12	47	8	26	26	32	8	18	30
GN 612-6-M16-*	6	M 16	16	56	10	30	32	42	11	29	57
GN 612-6-M16x1,5-*	6	M 16 x 1.5	16	56	10	30	32	42	11	29	59
GN 612-8-M12-*	8	M 12	12	47	8	26	26	32	8	18	30
GN 612-8-M12x1,5-*	8	M 12 x 1.5	12	47	8	26	26	32	8	18	29
GN 612-8-M16-*	8	M 16	16	56	10	30	32	42	11	29	59
GN 612-8-M16x1,5-*	8	M 16 x 1.5	16	56	10	30	32	42	11	29	61
GN 612-8-M20x1,5-*	8	M 20 x 1.5	20	69	12	37	37	52	21	57	111
GN 612-8-M20-*	8	M 20	20	69	12	37	37	52	21	57	115
GN 612-10-M16x1,5-*	10	M 16 x 1.5	16	56	10	30	32	42	11	29	60
GN 612-10-M16-*	10	M 16	16	56	10	30	32	42	11	29	61
GN 612-10-M20x1,5-*	10	M 20 x 1.5	20	69	12	37	37	52	21	57	114
GN 612-10-M20-*	10	M 20	20	69	12	37	37	52	21	57	121
GN 612-12-M20x1,5-*	12	M 20 x 1.5	20	69	12	37	37	52	21	57	100
GN 612-12-M20-*	12	M 20	20	69	12	37	37	52	21	57	120

GN 612-NI

STAINLESS STEEL

Description	d1 Pin -0.06/-0.08 Bore H7	d2	d3	l1	l2	l3 +1.5	l4	l5	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 612-4-M10-*-NI	4**	M 10	10	37.5	6	19	21	-	7	20	16
GN 612-4-M10x1-*-NI	4**	M 10 x 1	10	37.5	6	19	21	-	7	20	17
GN 612-5-M10-*-NI	5**	M 10	10	37.5	6	19	21	-	7	20	17
GN 612-5-M10x1-*-NI	5**	M 10 x 1	10	37.5	6	19	21	-	7	20	18
GN 612-5-M12-*-NI	5	M 12	12	47	8	26	26	32	8	18	28
GN 612-5-M12x1,5-*-NI	5	M 12 x 1.5	12	47	8	26	26	32	8	18	28
GN 612-6-M10-*-NI	6**	M 10	10	37.5	6	19	21	-	7	20	18
GN 612-6-M10x1-*-NI	6**	M 10 x 1	10	37.5	6	19	21	-	7	20	18
GN 612-6-M12-*-NI	6	M 12	12	47	8	26	26	32	8	18	29
GN 612-6-M12x1,5-*-NI	6	M 12 x 1.5	12	47	8	26	26	32	8	18	30
GN 612-6-M16-*-NI	6	M 16	16	56	10	30	32	42	11	29	57
GN 612-6-M16x1,5-*-NI	6	M 16 x 1.5	16	56	10	30	32	42	11	29	59
GN 612-8-M12-*-NI	8	M 12	12	47	8	26	26	32	8	18	30
GN 612-8-M12x1,5-*-NI	8	M 12 x 1.5	12	47	8	26	26	32	8	18	30
GN 612-8-M16-*-NI	8	M 16	16	56	10	30	32	42	11	29	58
GN 612-8-M16x1,5-*-NI	8	M 16 x 1.5	16	56	10	30	32	42	11	29	60
GN 612-8-M20x1,5-*-NI	8	M 20 x 1.5	20	69	12	36	37	52	21	57	121
GN 612-8-M20-*-NI	8	M 20	20	69	12	36	37	52	21	57	115
GN 612-10-M16x1,5-*-NI	10	M 16 x 1.5	16	56	10	30	32	42	11	29	64
GN 612-10-M16-*-NI	10	M 16	16	56	10	30	32	42	11	29	61
GN 612-10-M20x1,5-*-NI	10	M 20 x 1.5	20	69	12	36	37	52	21	57	120
GN 612-10-M20-*-NI	10	M 20	20	69	12	36	37	52	21	57	117
GN 612-12-M20x1,5-*-NI	12	M 20 x 1.5	20	69	12	36	37	52	21	57	130
GN 612-12-M20-*-NI	12	M 20	20	69	12	36	37	52	21	57	120

** These sizes are only available in Type A and Type AK.

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PMT.200

Indexing plungers

Rest position, SUPER-technopolymer body

THREADED BODY
Glass-fibre reinforced polyamide based (PA) SUPER-technopolymer.

PLUNGER
Black-oxide hardened steel or AISI 303 stainless steel.
Suggested tolerance H7 for matching hole.

LEVER
Self-lubricating glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

SPRING
AISI 302 stainless steel.

LOCKING NUT (NTT)
Glass-fibre reinforced polyamide based (PA) SUPER-tecnopolymer.
Available also as accessory sold separately (see table NTT).

STANDARD EXECUTIONS
- **PMT.200-A:** black-oxide steel plunger, without locking nut.
- **PMT.200-AK:** black-oxide steel plunger, with locking nut (supplied not assembled).
- **PMT.200-SST-A:** AISI 303 stainless steel plunger, without locking nut, not magnetic.
- **PMT.200-SST-AK:** AISI 303 stainless steel plunger, with locking nut (supplied not assembled), not magnetic.

FEATURES AND APPLICATIONS
- PMT.200 lever indexing plungers are used when the plunger must be retracted quickly.
- By rotating the lifting lever by 180°, the plunger stops in the retracted position in which the lever is kept by a notch.
- High lightness and high mechanical resistance of the product.
- Anticorrosive material: suitable even in the presence of liquid or humidity (PMT.200-SST).
- The SUPER-technopolymer threaded body of the plunger offers a low friction factor to the plunger stroke; no lubricating maintenance is required.

ASSEMBLY INSTRUCTIONS
Make sure that no machining residues are left on the threaded hole for the assembly of PMT.200 indexing plunger (see fig. 1). Do not make any chamfering in the hole (see fig. 2).
SUPER-technopolymer product based on ELESA technology, dimensions of the threaded body and plunger according to GN 612 standards as agreed with Otto Ganter GmbH Co. KG.

ELESA Original design

Fig.1

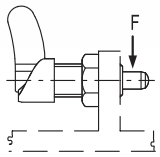
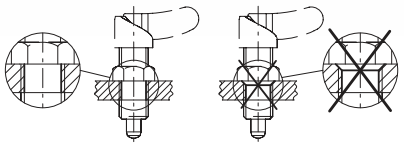
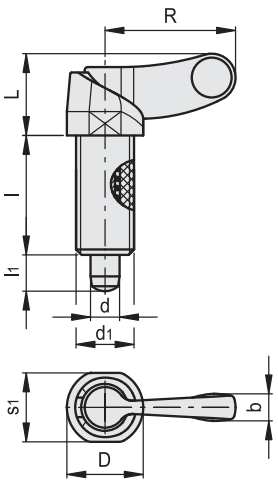


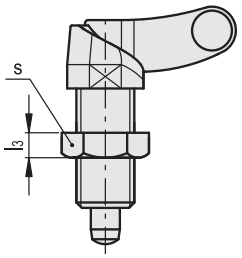
Fig.2



PMT.200-A
PMT.200-SST-A



PMT.200-AK
PMT.200-SST-AK



NTT

Code	Description
301085	NTT-M12x1,5
301087	NTT-M16x1,5

PMT.200

Code	Description	d -0.15 -0.1	d1	L	D	R	b	l	l1	l3	s	s1	[N]*	[N]#	Max. tightening torque [Nm]	Max. static load F[N]	⚖
51702	PMT.200-6-M12x1.5-A	6	M12x1.5	17	15.5	26.5	5.5	26	8	-	-	14	9	35	10	3000	20
51711	PMT.200-8-M16x1.5-A	8	M16x1.5	21	20.5	32.5	7	30	10	-	-	19	10	40	18	3000	26
51722	PMT.200-6-M12x1.5-AK	6	M12x1.5	17	15.5	26.5	5.5	26	8	8	19	14	9	35	10	3000	25
51731	PMT.200-8-M16x1.5-AK	8	M16x1.5	21	20.5	32.5	7	30	10	10	24	19	10	40	18	3000	31

PMT.200-SST **STAINLESS STEEL**

51752	PMT.200-SST-6-M12x1.5-A	6	M12x1.5	17	15.5	26.5	5.5	26	8	-	-	14	9	35	10	2000	20
51761	PMT.200-SST-8-M16x1.5-A	8	M16x1.5	21	20.5	32.5	7	30	10	-	-	19	10	40	18	2000	26
51772	PMT.200-SST-6-M12x1.5-AK	6	M12x1.5	17	15.5	26.5	5.5	26	8	8	19	14	9	35	10	2000	25
51781	PMT.200-SST-8-M16x1.5-AK	8	M16x1.5	21	20.5	32.5	7	30	10	10	24	19	10	40	18	2000	31

***** Spring preload

Spring maximum load

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GN 712

Cam action indexing plungers

Pin in standard position protruded

SPECIFICATION

Types

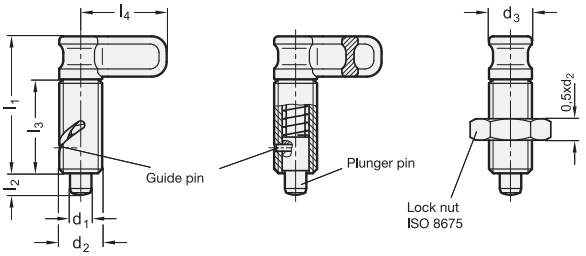
- Type **A**: without rest position, without lock nut
- Type **AK**: without rest position, with lock nut
- Type **R**: with rest position, without lock nut
- Type **RK**: with rest position, with lock nut
- Type **S**: with safety rest position, without lock nut
- Type **SK**: with safety rest position, with lock nut

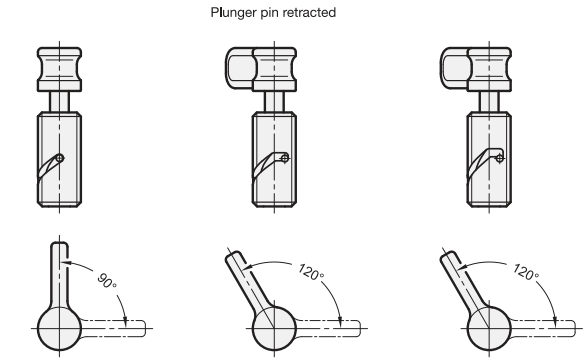
Steel
zinc plated, blue passivated

Pin
Stainless Steel AISI 303

Latch
Plastic (Polyamide PA)

- black, matt
- not removable





INFORMATION

Cam action indexing plungers GN 712 are used in such applications where the plunger must not protrude continually. When turning the cam by 90° resp. 120° degrees in anti-clockwise direction, the plunger is moved through a curved opening in the body. After that, the plunger is retracted.
Depending on the type, the plunger is moved back by a spring in its original position (Type A), is held in retracted position (Type R), resp. is secured against accidental operation (Type S).
In order to move the plunger, safety version Type S requires an additional lifting of the latch.

- Range of cam action indexing plungers (see page 816)

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)
- Load rating information (see page A42)

ON REQUEST

- Stainless Steel guide

GN 712

Description	d1 Pin -0.02/-0.05 Bore G7	d2	d3	l1 ≈	l2	l3 min.	l4	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 712-6-M16x1,5-A	6	M 16 x 1.5	16	51	8	35	32	6.5	20	50
GN 712-8-M16x1,5-A	8	M 16 x 1.5	16	51	8	35	32	6.5	20	50
GN 712-10-M16x1,5-A	10	M 16 x 1.5	16	51	8	35	32	6.5	20	55
GN 712-6-M16x1,5-AK	6	M 16 x 1.5	16	51	8	35	32	6.5	20	68
GN 712-8-M16x1,5-AK	8	M 16 x 1.5	16	51	8	35	32	6.5	20	69
GN 712-10-M16x1,5-AK	10	M 16 x 1.5	16	51	8	35	32	6.5	20	71
GN 712-6-M16x1,5-R	6	M 16 x 1.5	16	51	8	35	32	6.5	20	50
GN 712-8-M16x1,5-R	8	M 16 x 1.5	16	51	8	35	32	6.5	20	50
GN 712-10-M16x1,5-R	10	M 16 x 1.5	16	51	8	35	32	6.5	20	55
GN 712-6-M16x1,5-RK	6	M 16 x 1.5	16	51	8	35	32	6.5	20	60
GN 712-8-M16x1,5-RK	8	M 16 x 1.5	16	51	8	35	32	6.5	20	68
GN 712-10-M16x1,5-RK	10	M 16 x 1.5	16	51	8	35	32	6.5	20	70
GN 712-6-M16x1,5-S	6	M 16 x 1.5	16	51	8	35	32	6.5	20	60
GN 712-8-M16x1,5-S	8	M 16 x 1.5	16	51	8	35	32	6.5	20	61
GN 712-10-M16x1,5-S	10	M 16 x 1.5	16	51	8	35	32	6.5	20	63
GN 712-6-M16x1,5-SK	6	M 16 x 1.5	16	51	8	35	32	6.5	20	60
GN 712-8-M16x1,5-SK	8	M 16 x 1.5	16	51	8	35	32	6.5	20	71
GN 712-10-M16x1,5-SK	10	M 16 x 1.5	16	51	8	35	32	6.5	20	80

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Cam action indexing plungers

Plunger Pin in standard position retracted

SPECIFICATION

Types

- Type **A**: without rest position, without lock nut
- Type **AK**: without rest position, with lock nut
- Type **R**: with rest position, without lock nut
- Type **RK**: with rest position, with lock nut
- Type **S**: with safety rest position, without lock nut
- Type **SK**: with safety rest position, with lock nut

Steel
zinc plated, blue passivated

Pin
Stainless Steel AISI 303

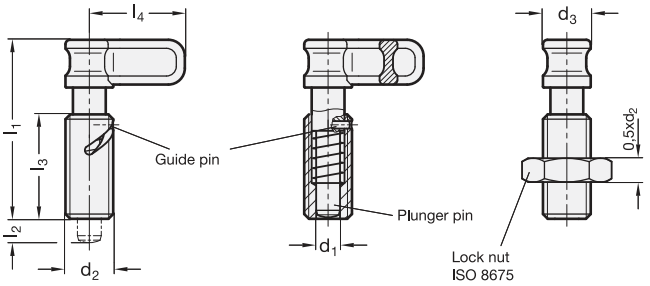
Latch
Plastic Technopolymer (Polyamide PA)

- black, matt
- not removable

INFORMATION

Cam action indexing plungers GN 712.1 are used in such applications where the plunger must not protrude continually. When turning the cam by 90° resp. 120° degrees in anti-clockwise direction, the plunger is moved through a curved opening in the body. After that, the plunger is protruded.
Depending on the type, the plunger is moved back by a spring in its original position (Type A), is held in protruded position (Type R), resp. is secured against accidental operation (Type S). In order to move the plunger, safety version Type S requires an additional pushing of the latch.

- Range of cam action indexing plungers (see page 816)

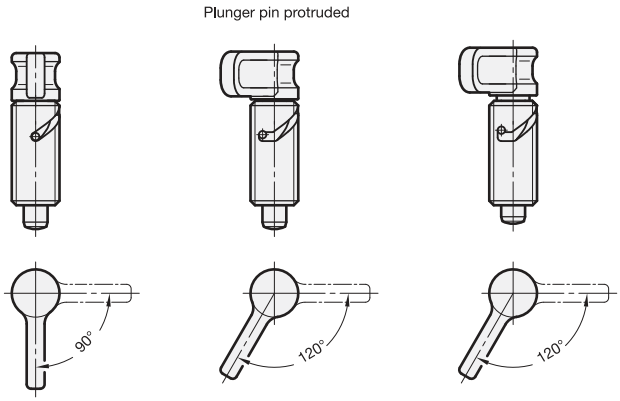


TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)
- Load rating information (see page A42)

ON REQUEST

- Stainless Steel guide



GN 712.1

Description	d1 Pin -0.02/-0.05 Bore G7	d2	d3	l1 ≈	l2 ±0.5	l3 min.	l4	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 712.1-6-M16x1,5-A	6	M 16 x 1.5	16	60	8	35	32	7	16.5	54
GN 712.1-8-M16x1,5-A	8	M 16 x 1.5	16	60	8	35	32	7	16.5	55
GN 712.1-6-M16x1,5-AK	6	M 16 x 1,5	16	60	8	35	32	7	16.5	60
GN 712.1-8-M16x1,5-AK	8	M 16 x 1.5	16	60	8	35	32	7	16.5	60
GN 712.1-6-M16x1,5-R	6	M 16 x 1.5	16	60	8	35	32	7	16.5	54
GN 712.1-8-M16x1,5-R	8	M 16 x 1.5	16	60	8	35	32	7	16.5	60
GN 712.1-6-M16x1,5-RK	6	M 16 x 1.5	16	60	8	35	32	7	16.5	60
GN 712.1-8-M16x1,5-RK	8	M 16 x 1.5	16	60	8	35	32	7	16.5	73
GN 712.1-6-M16x1,5-S	6	M 16 x 1.5	16	60	6	35	32	7	16.5	60
GN 712.1-8-M16x1,5-S	8	M 16 x 1.5	16	60	6	35	32	7	16.5	65
GN 712.1-6-M16x1,5-SK	6	M 16 x 1.5	16	60	6	35	32	7	16.5	70
GN 712.1-8-M16x1,5-SK	8	M 16 x 1.5	16	60	6	35	32	7	16.5	75

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GN 612.8

Cam action indexing plungers

Threaded body zinc die casting,
ZNDG Pass nano®-coating

SPECIFICATION

Types

- Type **A**: without lock nut
- Type **AK**: with lock nut

Threaded body (Guide)
Zinc die casting

- corrosion-resistant, ZNDG Pass nano®-coating
- anthracite

Plunger pin
Steel
zinc plated, blue passivated

Lever
Plastic (Polyamide PA)

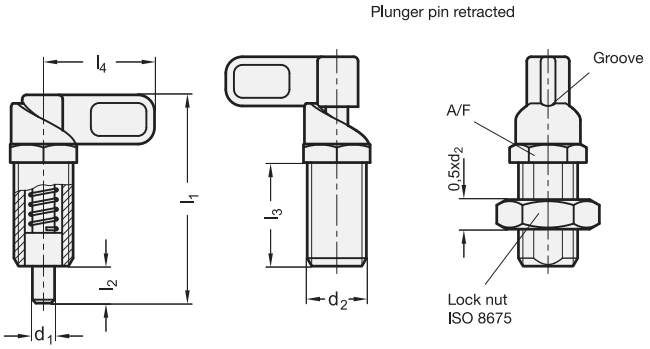
- black, matt
- not removable

INFORMATION

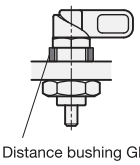
Cam action indexing plungers GN 612.8 are used in cases where the locking pin must not protrude all the time. By rotating the lock through 180° the locking pin withdraws itself. The groove allows safe positioning.
These cam action indexing plungers made of die-cast zinc are very reasonably priced design versions.
- Range of cam action indexing plungers (see page 816)

TECHNICAL INFORMATION

- Plastic characteristics (see page A2)
- Load rating information (see page A42)



Assembly instruction



GN 612.8

Description	d1 Pin-0.05 Bore +0.1/+0.05	d2	l1	l2	l3	l4	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 612.8-4-M12x1,5-A	4	M 12 x 1.5	48	8	25	25	13	8	22	49
GN 612.8-5-M12x1,5-A	5	M 12 x 1.5	48	8	25	25	13	8	22	51
GN 612.8-6-M12x1,5-A	6	M 12 x 1.5	48	8	25	25	13	8	22	23
GN 612.8-6-M16x1,5-A	6	M 16 x 1.5	56.5	10	28	30	18	11	30	45
GN 612.8-8-M16x1,5-A	8	M 16 x 1.5	56.5	10	28	30	18	11	30	47
GN 612.8-8-M20x1,5-A	8	M 20 x 1.5	69.5	12	36	37	22	20	56	94
GN 612.8-10-M16x1,5-A	10	M 16 x 1.5	56.5	10	28	30	18	11	30	49
GN 612.8-10-M20x1,5-A	10	M 20 x 1.5	69.5	12	36	37	22	20	56	92
GN 612.8-12-M20x1,5-A	12	M 20 x 1.5	69.5	12	36	37	22	20	56	100
GN 612.8-4-M12x1,5-AK	4	M 12 x 1.5	48	8	25	25	13	8	22	29
GN 612.8-5-M12x1,5-AK	5	M 12 x 1.5	48	8	25	25	13	8	22	60
GN 612.8-6-M12x1,5-AK	6	M 12 x 1.5	48	8	25	25	13	8	22	31
GN 612.8-6-M16x1,5-AK	6	M 16 x 1.5	56.5	10	28	30	18	11	30	60
GN 612.8-8-M16x1,5-AK	8	M 16 x 1.5	56.5	10	28	30	18	11	30	59
GN 612.8-8-M20x1,5-AK	8	M 20 x 1.5	69.5	12	36	37	22	20	56	130
GN 612.8-10-M16x1,5-AK	10	M 16 x 1.5	56.5	10	28	30	18	11	30	65
GN 612.8-10-M20x1,5-AK	10	M 20 x 1.5	69.5	12	36	37	22	20	56	128
GN 612.8-12-M20x1,5-AK	12	M 20 x 1.5	69.5	12	36	37	22	20	56	130

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Cam action indexing plungers

with 180° limit stop, without locking function

SPECIFICATION

Types

- Type **RA**: Right-hand lock
- Type **RB**: Right-hand lock, with plastic cover
- Type **RAK**: Right-hand lock, with lock nut
- Type **RBK**: Right-hand lock, with plastic cover, with lock nut
- Type **LA**: Left-hand lock
- Type **LB**: Left-hand lock, with plastic cover
- Type **LAK**: Left-hand lock, with lock nut
- Type **LBK**: Left-hand lock, with plastic cover, with lock nut

Steel

- blackened
- Pin nitrided

Spring
Stainless Steel AISI 301

Plastic cover
Technopolymer (Polyamdie PA)
black, matte

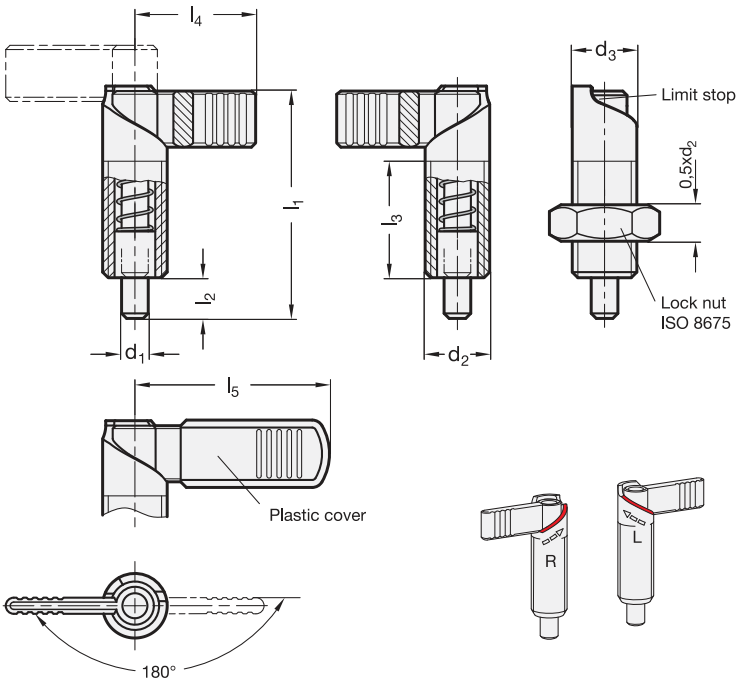
INFORMATION

For GN 721 cam action indexing plungers the indexing plunger pin is withdrawn by turning the lock by 180°.
When the cam action indexing plungers are positioned symmetrically, the left or right handed types allow for a practical, i.e. equal, direction setting of the lock.

- Range of cam action indexing plungers (see page 816)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Load rating information (see page A42)



*Complete with type index of the Cam action indexing plungers

RA **RB** **RAK** **RBK** **LA** **LB** **LAK** **LBK**

GN 721

Description	d1 Pin -0.02/-0.04 Bore H7	d2	d3	l1	l2	l3 +1.5	l4	l5	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 721-5-M10x1-*	5**	M10x1	10	37.5	6	19	21	-	7	20	18
GN 721-6-M12x1,5-*	6	M12x1.5	12	47	8	26	26	32	8	18	30
GN 721-8-M16x1,5-*	8	M16x1.5	16	56	10	30	32	42	11	29	64
GN 721-10-M20x1,5-*	10	M20x1.5	20	69	12	37	37	52	21	57	129

** This size is only available in types LA, LAK, RA and RAK.

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GN 721.5

Stainless Steel-Cam action indexing plungers

with 180° limit stop, without locking function

SPECIFICATION

Types

- Type **RA**: Right-hand lock
- Type **RB**: Right-hand lock, with plastic cover
- Type **RAK**: Right-hand lock, with lock nut
- Type **RBK**: Right-hand lock, with plastic cover, with lock nut
- Type **LA**: Left-hand lock
- Type **LB**: Left-hand lock, with plastic cover
- Type **LAK**: Left-hand lock, with lock nut
- Type **LBK**: Left-hand lock, with plastic cover, with lock nut

Stainless Steel AISI 303

Spring
Stainless Steel AISI 301

Plastic cover
Technopolymer (Polyamdie PA)
black, matte

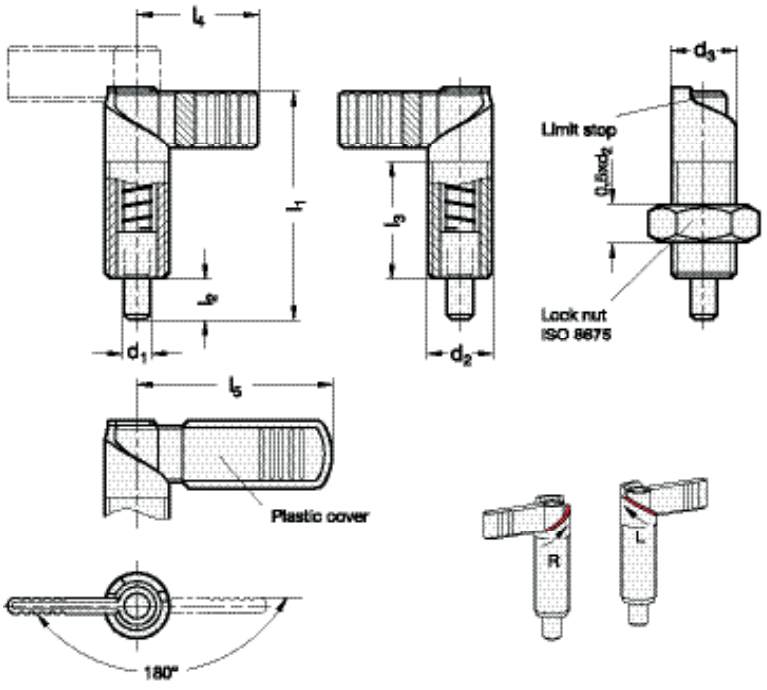
INFORMATION

For GN 721.5 Stainless Steel-Cam action indexing plungers the indexing plunger pin is withdrawn by turning the lock by 180°.
For opposing cam action indexing plungers the left or right-handed types allow practical use, that is the same setting of the lock.

- Range of cam action indexing plungers (see page 816)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Load rating information (see page A42)



*Complete with type index of the Cam action indexing plungers

RA RB RAK RBK LA LB LAK LBK

GN 721.5 — **STAINLESS STEEL**

Description	d1 Pin -0.06/-0.08 Bore H7	d2	d3	l1	l2	l3 +1.5	l4	l5	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 721.5-5-M10x1-*	5**	M10x1	10	37.5	6	19	21	-	7	20	90
GN 721.5-6-M12x1,5-*	6	M12x1.5	12	47	8	26	26	32	8	18	110
GN 721.5-8-M16x1,5-*	8	M16x1.5	16	56	10	30	32	42	11	29	120
GN 721.5-10-M20x1,5-*	10	M20x1.5	20	69	12	37	37	52	21	57	130

** This size is only available in types LA, LAK, RA and RAK.

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Cam action indexing plungers

with 180° limit stop, with locking function

SPECIFICATION

Types

- Type **RA**: Right-hand lock
- Type **RB**: Right-hand lock, with plastic cover
- Type **RAK**: Right-hand lock, with lock nut
- Type **RBK**: Right-hand lock, with plastic cover, with lock nut
- Type **LA**: Left-hand lock
- Type **LB**: Left-hand lock, with plastic cover
- Type **LAK**: Left-hand lock, with lock nut
- Type **LBK**: Left-hand lock, with plastic cover, with lock nut

Steel

- blackened
- Plunger nitrided

Spring
Stainless Steel AISI 301

Plastic cover
Technopolymer (Polyamdie PA)
black, matte

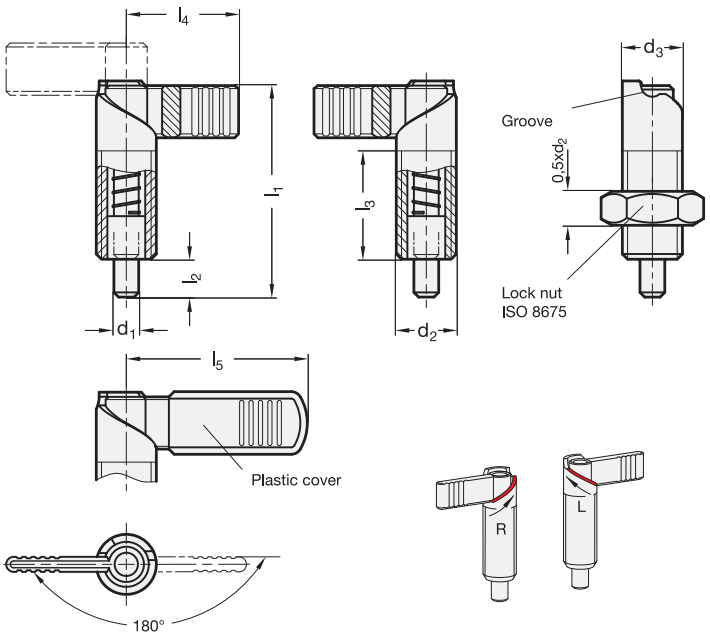
INFORMATION

The groove on GN 721.1 cam action indexing plungers ensures that the locking pin remains in its withdrawn position.
When the cam action indexing plungers are positioned symmetrically, the left or right handed types allow for a practical, i.e. equal, direction setting of the lock.

- Range of cam action indexing plungers (see page 816)

TECHNICAL INFORMATION

- ISO-Fundamental tolerances (see page A21)
- Load rating information (see page A42)



*Complete with type index of the Cam action indexing plungers

RA **RB** **RAK** **RBK** **LA** **LB** **LAK** **LBK**

GN 721.1

Description	d1 Pin -0.02/-0.04 Bore H7	d2	d3	l1	l2	l3 +1.5	l4	l5	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 721.1-5-M10x1-*	5**	M10x1	10	37.5	6	19	21	-	7	20	18
GN 721.1-6-M12x1,5-*	6	M12x1.5	12	47	8	26	26	32	9	21	31
GN 721.1-8-M16x1,5-*	8	M16x1.5	16	56	10	30	32	42	12	32	66
GN 721.1-10-M20x1,5-*	10	M20x1.5	20	69	12	37	37	52	21	58	129

** This size is only available in types LA, LAK, RA and RAK.

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GN 721.6

Stainless Steel-Cam action indexing plungers

with 180° limit stop, with locking function

SPECIFICATION

Types

- Type **RA**: Right-hand lock
- Type **RB**: Right-hand lock, with plastic cover
- Type **RAK**: Right-hand lock, with lock nut
- Type **RBK**: Right-hand lock, with plastic cover, with lock nut
- Type **LA**: Left-hand lock
- Type **LB**: Left-hand lock, with plastic cover
- Type **LAK**: Left-hand lock, with lock nut
- Type **LBK**: Left-hand lock, with plastic cover, with lock nut

Stainless Steel AISI 303

Spring
Stainless Steel AISI 301

Plastic cover
Technopolymer (Polyamdie PA)
black, matte

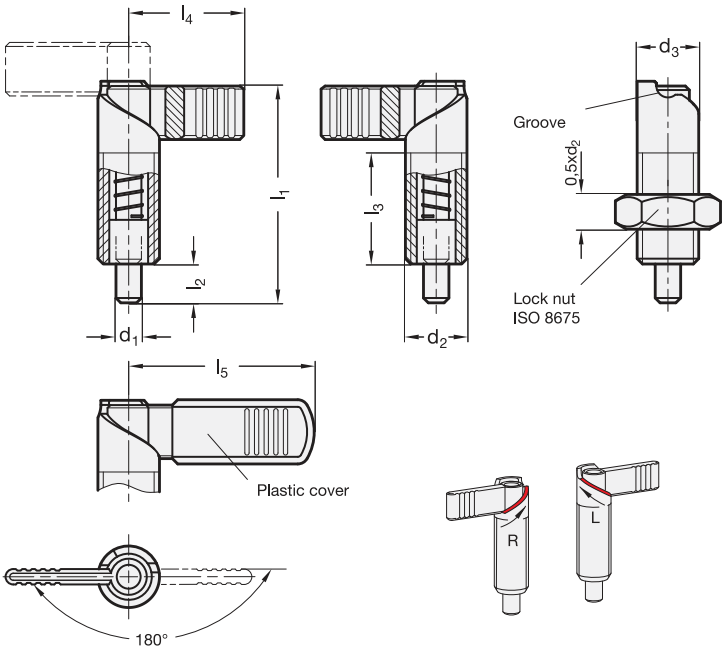
INFORMATION

For GN 721.6 Stainless Steel-Cam action indexing plungers the indexing plunger pin is withdrawn by turning the lock by 180°.
For opposing cam action indexing plungers the left or right-handed types allow practical use, that is the same setting of the lock.

- Range of cam action indexing plungers (see page 816)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Load rating information (see page A42)



*Complete with type index of the Cam action indexing plungers
RA RB RAK RBK LA LB LAK LBK

GN 721.6 STAINLESS STEEL

Description	d1 Pin -0.06/-0.08 Bore H7	d2	d3	l1	l2	l3 +1.5	l4	l5	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 721.6-5-M10x1-*	5**	M10x1	10	37.5	6	19	21	-	7	20	18
GN 721.6-6-M12x1,5-*	6	M12x1.5	12	47	8	26	26	32	8	18	31
GN 721.6-8-M16x1,5-*	8	M16x1.5	16	56	10	30	32	42	11	29	65
GN 721.6-10-M20x1,5-*	10	M20x1.5	20	69	12	37	37	52	21	57	130

** This size is only available in types LA, LAK, RA and RAK.

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Cam action indexing plungers

Guide steel, blackened

SPECIFICATION

Types

- Type **A**: without plastic cover
- Type **B**: with plastic cover

Steel

- blackened
- Pin nitrided

Plastic cover (Polyamide PA)
black, matt

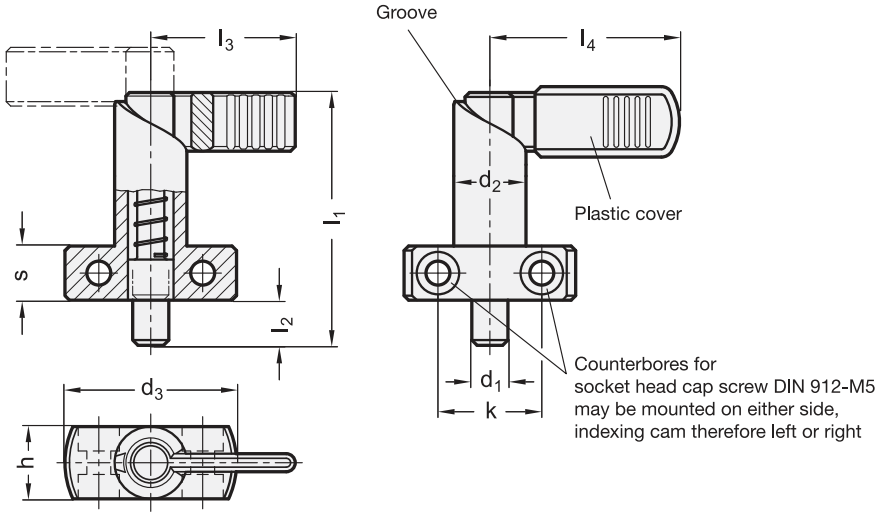
INFORMATION

Cam action indexing plungers GN 612.2 are used in cases where the locking pin must not protude all the time. By rotating the lock through 180° the locking pin withdraws itself. A groove keeps the plunger in this position.

- Range of cam action indexing plungers (see page 816)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Plastic characteristics (see page A2)
- Load rating information (see page A42)



GN 612.2

Description	d1 Pin 0/-0.05 Bore H7	d2	d3	h	k	l1	l2	l3	l4	s	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 612.2-6-16-A	6	16	35	16	20	56	10	32	-	12	12	32	62
GN 612.2-8-16-A	8	16	35	16	20	56	10	32	-	12	12	32	84
GN 612.2-8-20-A	8	20	40	20	22	69	12	37	-	15	21	58	167
GN 612.2-10-16-A	10	16	35	16	20	56	10	32	-	12	12	32	86
GN 612.2-10-20-A	10	20	40	20	22	69	12	37	-	15	21	58	169
GN 612.2-12-20-A	12	20	40	20	22	69	12	37	-	15	21	58	170
GN 612.2-6-16-B	6	16	35	16	20	56	10	-	42	12	12	32	85
GN 612.2-8-16-B	8	16	35	16	20	56	10	-	42	12	12	32	86
GN 612.2-8-20-B	8	20	40	20	22	69	12	-	52	15	21	58	170
GN 612.2-10-16-B	10	16	35	16	20	56	10	-	42	12	12	32	90
GN 612.2-10-20-B	10	20	40	20	22	69	12	-	52	15	21	58	173
GN 612.2-12-20-B	12	20	40	20	22	69	12	-	52	15	21	58	180

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GN 612.9

Cam action indexing plungers

with flange / Guide zinc die casting

SPECIFICATION

Guide
Zinc die casting
plastic coated
black, RAL 9005, textured finish **SW**

Plunger pin
Steel
zinc plated, blue passivated

Lever
Plastic (Polyamide PA)

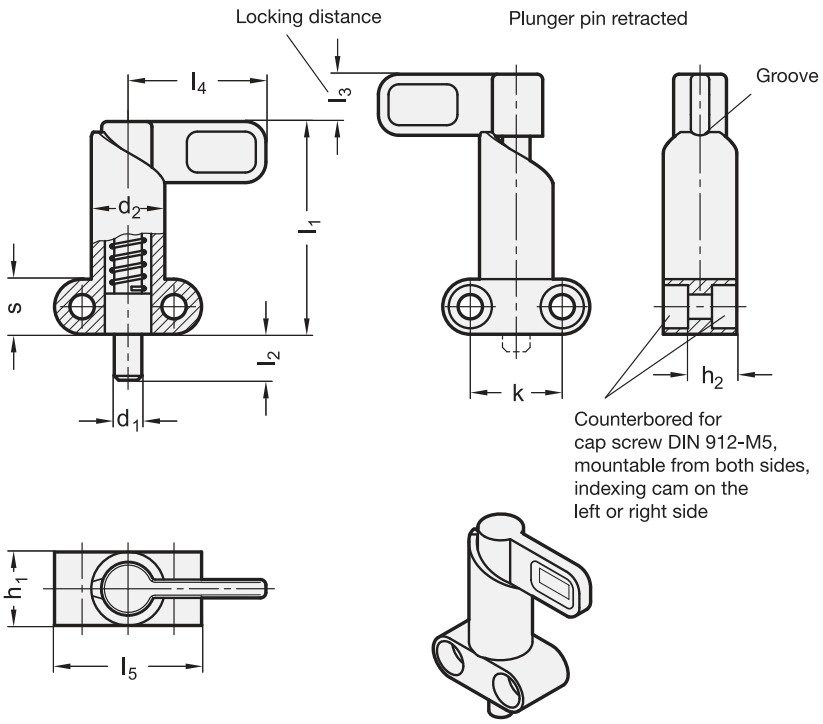
- black, matt
- not removable

INFORMATION

Cam action indexing plungers GN 612.9 are used in cases where the plunger must not protrude all the time. By rotating the lever through 180° the plunger withdraws itself. The groove allows safe positioning.
- Range of cam action indexing plungers (see page 816)

TECHNICAL INFORMATION

- Plastic characteristics (see page A2)



GN 612.9

Description	d1 Pin-0.05 Bore +0.1/+0.05	l2	d2	h1	h2	k	l1 ≈	l3	l4	l5	s	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 612.9-6-10-16-SW	6	10	16	16	10.5	20	46	10	30	32	12	12	32	57
GN 612.9-6-16-16-SW	6	16	16	16	10.5	20	46	10	30	32	12	12	32	60
GN 612.9-8-10-16-SW	8	10	16	16	10.5	20	46	10	30	32	12	12	32	58
GN 612.9-8-16-16-SW	8	16	16	16	10.5	20	46	10	30	32	12	12	32	60
GN 612.9-8-12-20-SW	8	12	20	20	14.5	22	57	12	37	37	15	21	58	120
GN 612.9-8-18-20-SW	8	18	20	20	14.5	22	57	12	37	37	15	21	58	120
GN 612.9-10-10-16-SW	10	10	16	16	10.5	20	46	10	30	32	12	12	32	61
GN 612.9-10-16-16-SW	10	16	16	16	10.5	20	46	10	30	32	12	12	32	120
GN 612.9-10-12-20-SW	10	12	20	20	14.5	22	57	12	37	37	15	21	58	122
GN 612.9-10-18-20-SW	10	18	20	20	14.5	22	57	12	37	37	15	21	58	120
GN 612.9-12-12-20-SW	12	12	20	20	14.5	22	57	12	37	37	15	21	58	127
GN 612.9-12-18-20-SW	12	18	20	20	14.5	22	57	12	37	37	15	21	58	130

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Spring latches

with flange for surface mounting

SPECIFICATION

Types

- Type **L**: left indexing cam
- Type **R**: right indexing cam

Version in Steel

Guide
Steel precision cast

zinc plated, blue passivated **ZB**

zinc plated and plastic coated
black, textured finish **SW**

Latch / Pin
Steel, zinc plated, blue passivated

Spring
Stainless Steel AISI 301

Version in Stainless Steel

Guide / Latch
Stainless Steel precision casting **A4**
weldable, AISI 316

Pin
Stainless Steel AISI 316

Spring
Stainless Steel AISI 316Ti

INFORMATION

Spring latches GN 722.3 are used when the indexing pin is temporarily not allowed to protrude. The indexing pin retracts by turning the latch by 180°. A lock notch will hold the latch in both positions.
Spring latches GN 722.3 are designed for use in **steel construction** or in **locksmith shops** where less precise positioning / locking is normally required. The dimensional tolerances are therefore chosen to ensure that functional safety is guaranteed under dirt exposure and that cost-effetive production methods are used.

- Range of cam action indexing plungers (see page 816)

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Load rating information (see page A42)

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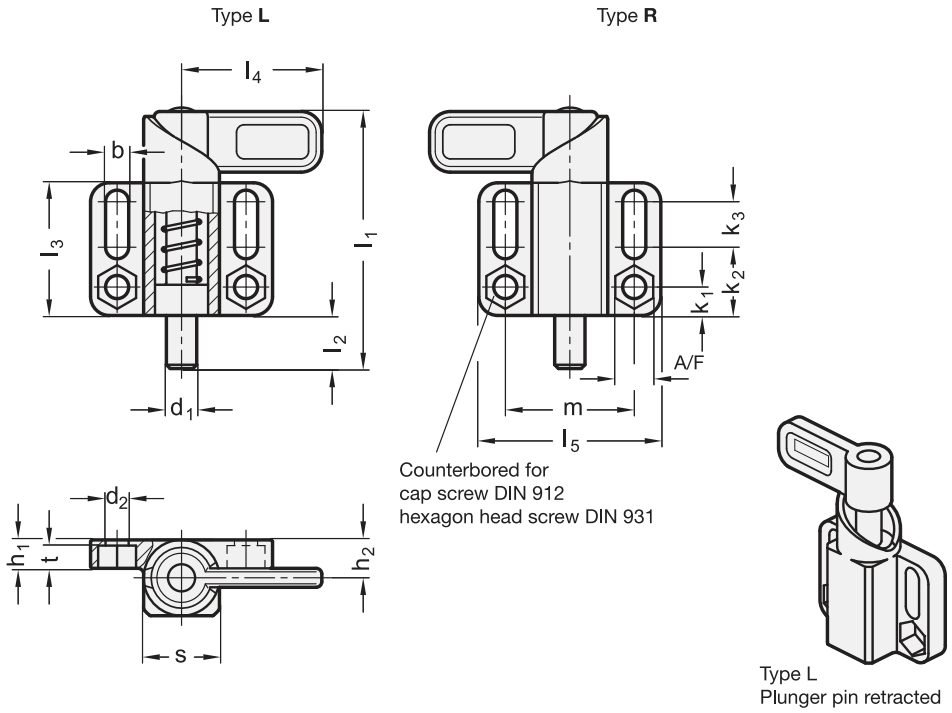
GN 722.3 | Spring latches



GN 722.3

Description	d Pin -0.05/-0.25 Bore +0.1/+0.3	s	d2 +0.2	h1	h2	k1	k2	k3	l1 ≈	l2	l3	l4	l5	m	A/F	t	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 722.3-8-20-R-SW	8	20	6.1	7.5	10	7.5	18	12	68	14	35	37	48	34	10	6.1	16	55	179
GN 722.3-8-20-R-ZB	8	20	6.1	7.5	10	7.5	18	12	68	14	35	37	48	34	10	6.1	16	55	179
GN 722.3-10-20-R-SW	10	20	6.1	7.5	10	7.5	18	12	68	14	35	37	48	34	10	6.1	16	55	180
GN 722.3-10-20-R-ZB	10	20	6.1	7.5	10	7.5	18	12	68	14	35	37	48	34	10	6.1	16	55	181
GN 722.3-12-20-R-SW	12	20	6.1	7.5	10	7.5	18	12	68	14	35	37	48	34	10	6.1	16	55	186
GN 722.3-12-20-R-ZB	12	20	6.1	7.5	10	7.5	18	12	68	14	35	37	48	34	10	6.1	16	55	184
GN 722.3-14-20-R-SW	14	20	6.1	7.5	10	7.5	18	12	68	14	35	37	48	34	10	6.1	16	55	190
GN 722.3-14-20-R-ZB	14	20	6.1	7.5	10	7.5	18	12	68	14	35	37	48	34	10	6.1	16	55	191
GN 722.3-8-20-L-SW	8	20	6.1	7.5	10	7.5	18	12	68	14	35	37	48	34	10	6.1	16	55	178
GN 722.3-8-20-L-ZB	8	20	6.1	7.5	10	7.5	18	12	68	14	35	37	48	34	10	6.1	16	55	176
GN 722.3-10-20-L-SW	10	20	6.1	7.5	10	7.5	18	12	68	14	35	37	48	34	10	6.1	16	55	180
GN 722.3-10-20-L-ZB	10	20	6.1	7.5	10	7.5	18	12	68	14	35	37	48	34	10	6.1	16	55	180
GN 722.3-12-20-L-SW	12	20	6.1	7.5	10	7.5	18	12	68	14	35	37	48	34	10	6.1	16	55	180
GN 722.3-12-20-L-ZB	12	20	6.1	7.5	10	7.5	18	12	68	14	35	37	48	34	10	6.1	16	55	183
GN 722.3-14-20-L-SW	14	20	6.1	7.5	10	7.5	18	12	68	14	35	37	48	34	10	6.1	16	55	180
GN 722.3-14-20-L-ZB	14	20	6.1	7.5	10	7.5	18	12	68	14	35	37	48	34	10	6.1	16	55	186

GN 722.3-A4

STAINLESS STEEL

Description	d Pin -0.05/-0.25 Bore +0.1/+0.3	s	d2 +0.2	h1	h2	k1	k2	k3	l1 ≈	l2	l3	l4	l5	m	A/F	t	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 722.3-8-20-R-A4	8	20	6.1	7.5	10	7.5	18	12	68	14	35	37	48	34	10	6.1	16	45	179
GN 722.3-10-20-R-A4	10	20	6.1	7.5	10	7.5	18	12	68	14	35	37	48	34	10	6.1	16	45	182
GN 722.3-12-20-R-A4	12	20	6.1	7.5	10	7.5	18	12	68	14	35	37	48	34	10	6.1	16	45	181
GN 722.3-14-20-R-A4	14	20	6.1	7.5	10	7.5	18	12	68	14	35	37	48	34	10	6.1	16	45	181
GN 722.3-8-20-L-A4	8	20	6.1	7.5	10	7.5	18	12	68	14	35	37	48	34	10	6.1	16	45	180
GN 722.3-10-20-L-A4	10	20	6.1	7.5	10	7.5	18	12	68	14	35	37	48	34	10	6.1	16	45	180
GN 722.3-12-20-L-A4	12	20	6.1	7.5	10	7.5	18	12	68	14	35	37	48	34	10	6.1	16	45	181
GN 722.3-14-20-L-A4	14	20	6.1	7.5	10	7.5	18	12	68	14	35	37	48	34	10	6.1	16	45	181

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Spring latches

with flange for surface mounting

SPECIFICATION

Types

- Type **A**: Latch position right-angled to fixing holes
- Type **B**: Latch position parallel to fixing holes

Version in Steel

Guide
Steel precision cast

zinc plated, blue passivated **ZB**

zinc plated and plastic coated
black, textured finish **SW**

Latch / Pin
zinc plated, blue passivated

Spring
Stainless Steel AISI 301

Version in Stainless Steel

Guide / Latch
Stainless Steel precision casting **A4**
weldable, AISI 316

Pin
Stainless Steel AISI 316

Spring
Stainless Steel AISI 316Ti

INFORMATION

Spring latches GN 722.2 are used when the indexing pin is temporarily not allowed to protrude. The indexing pin retracts by turning the latch by 180°. A lock notch will hold the latch in both positions.
Spring latches GN 722.2 are designed for use in **steel construction** or in **locksmith shops** where less precise positioning / locking is normally required. The dimensional tolerances are therefore chosen to ensure that functional safety is guaranteed under dirt exposure and that cost-effetive production methods are used.

- Range of cam action indexing plungers (see page 816)

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Load rating information (see page A42)

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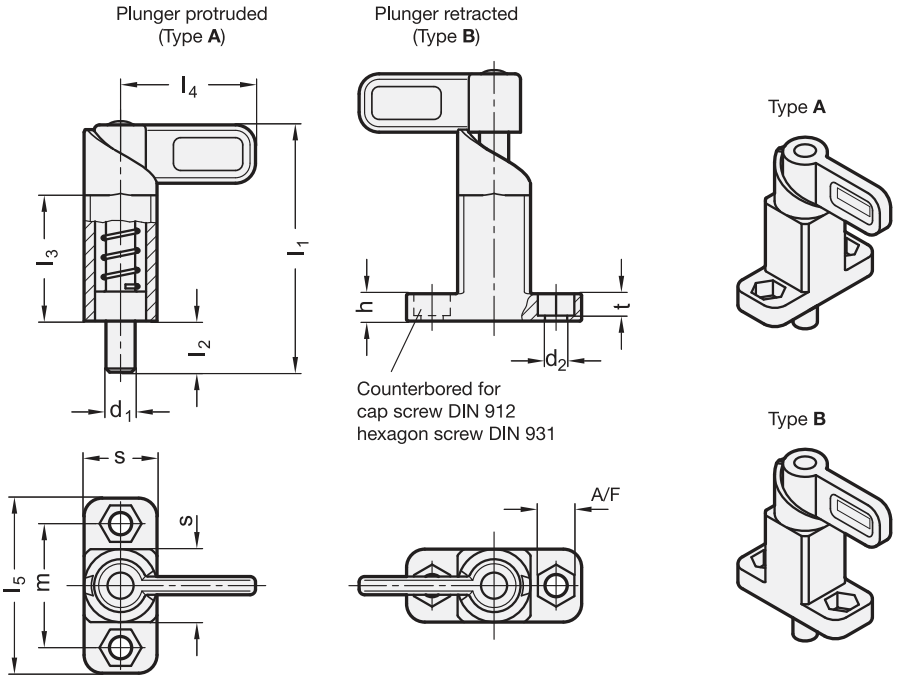
GN 722.2 | Spring latches



GN 722.2

Description	d Pin -0.05/-0.25 Bore +0.1/+0.3	s	d2 +0.2	h	l1 ≈	l2	l3	l4	l5	m	A/F	t	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 722.2-8-20-A-SW	8	20	6.1	7.5	68	14	35	37	48	34	10	6.1	16	55	160
GN 722.2-8-20-A-ZB	8	20	6.1	7.5	68	14	35	37	48	34	10	6.1	16	55	162
GN 722.2-10-20-A-SW	10	20	6.1	7.5	68	14	35	37	48	34	10	6.1	16	55	168
GN 722.2-10-20-A-ZB	10	20	6.1	7.5	68	14	35	37	48	34	10	6.1	16	55	170
GN 722.2-12-20-A-SW	12	20	6.1	7.5	68	14	35	37	48	34	10	6.1	16	55	172
GN 722.2-12-20-A-ZB	12	20	6.1	7.5	68	14	35	37	48	34	10	6.1	16	55	171
GN 722.2-14-20-A-SW	14	20	6.1	7.5	68	14	35	37	48	34	10	6.1	16	55	175
GN 722.2-14-20-A-ZB	14	20	6.1	7.5	68	14	35	37	48	34	10	6.1	16	55	176
GN 722.2-8-20-B-SW	8	20	6.1	7.5	68	14	35	37	48	34	10	6.1	16	55	160
GN 722.2-8-20-B-ZB	8	20	6.1	7.5	68	14	35	37	48	34	10	6.1	16	55	160
GN 722.2-10-20-B-SW	10	20	6.1	7.5	68	14	35	37	48	34	10	6.1	16	55	170
GN 722.2-10-20-B-ZB	10	20	6.1	7.5	68	14	35	37	48	34	10	6.1	16	55	170
GN 722.2-12-20-B-SW	12	20	6.1	7.5	68	14	35	37	48	34	10	6.1	16	55	170
GN 722.2-12-20-B-ZB	12	20	6.1	7.5	68	14	35	37	48	34	10	6.1	16	55	170
GN 722.2-14-20-B-SW	14	20	6.1	7.5	68	14	35	37	48	34	10	6.1	16	55	175
GN 722.2-14-20-B-ZB	14	20	6.1	7.5	68	14	35	37	48	34	10	6.1	16	55	175

GN 722.2-A4

STAINLESS STEEL

Description	d Pin -0.05/-0.25 Bore +0.1/+0.3	s	d2 +0.2	h	l1 ≈	l2	l3	l4	l5	m	A/F	t	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 722.2-8-20-A-A4	8	20	6.1	7.5	68	14	35	37	48	34	10	6.1	16	45	166
GN 722.2-10-20-A-A4	10	20	6.1	7.5	68	14	35	37	48	34	10	6.1	16	45	169
GN 722.2-12-20-A-A4	12	20	6.1	7.5	68	14	35	37	48	34	10	6.1	16	45	174
GN 722.2-14-20-A-A4	14	20	6.1	7.5	68	14	35	37	48	34	10	6.1	16	45	180
GN 722.2-8-20-B-A4	8	20	6.1	7.5	68	14	35	37	48	34	10	6.1	16	45	166
GN 722.2-10-20-B-A4	10	20	6.1	7.5	68	14	35	37	48	34	10	6.1	16	45	170
GN 722.2-12-20-B-A4	12	20	6.1	7.5	68	14	35	37	48	34	10	6.1	16	45	176
GN 722.2-14-20-B-A4	14	20	6.1	7.5	68	14	35	37	48	34	10	6.1	16	45	180

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Cam action indexing plungers

with flange for surface mounting,
Guide zinc die casting

SPECIFICATION

Guide
Zinc die casting
plastic coated
black, RAL 9005, textured finish **SW**

Pin
Steel
zinc plated, blue passivated

Lever
Plastic (Polyamide PA)

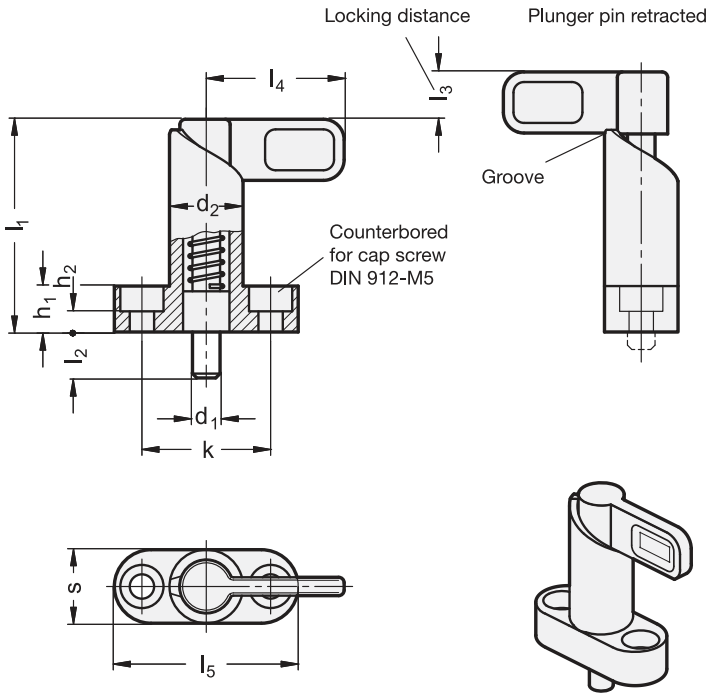
- black, matt
- not removable

INFORMATION

Cam action indexing plungers GN 612.10 are used in cases where the plunger must not protrude all the time. By rotating the lever through 180° the plunger withdraws itself. The groove allows safe positioning.
- Range of cam action indexing plungers (see page 816)

TECHNICAL INFORMATION

- Plastic characteristics (see page A2)



GN 612.10

Description	d1 Pin-0.05 Bore +0.1/+0.05	l2	d2	h1	h2	k	l1 ≈	l3	l4	l5	s	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 612.10-6-10-16-SW	6	10	16	10	4.5	28	46	10	30	40	16	12	32	53
GN 612.10-6-16-16-SW	6	16	16	10	4.5	28	46	10	30	40	16	12	32	67
GN 612.10-8-10-16-SW	8	10	16	10	4.5	28	46	10	30	40	16	12	32	68
GN 612.10-8-16-16-SW	8	16	16	10	4.5	28	46	10	30	40	16	12	32	50
GN 612.10-8-12-20-SW	8	12	20	10	4.5	32	57	12	37	45	20	21	58	20
GN 612.10-8-18-20-SW	8	18	20	10	4.5	32	57	12	37	45	20	21	58	120
GN 612.10-10-10-16-SW	10	10	16	10	4.5	28	46	10	30	40	16	12	32	70
GN 612.10-10-16-16-SW	10	16	16	10	4.5	28	46	10	30	40	16	12	32	74
GN 612.10-10-12-20-SW	10	12	20	10	4.5	32	57	12	37	45	20	21	58	126
GN 612.10-10-18-20-SW	10	18	20	10	4.5	32	57	12	37	45	20	21	58	130
GN 612.10-12-12-20-SW	12	12	20	10	4.5	32	57	12	37	45	20	21	58	130
GN 612.10-12-18-20-SW	12	18	20	10	4.5	32	57	12	37	45	20	21	58	135

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GN 612.3

Cam action indexing plungers

Steel / Stainless Steel, for welding

SPECIFICATION

Types

- Type **A**: without plastic cover
- Type **B**: with plastic cover

Version in Steel

- Guide blackened, weldable
- Pin nitrided

Version Stainless Steel NI

- Guide, weldable AISI 304
- Pin AISI 303

Spring
Stainless Steel AISI 301

Plastic cover (Polyamide PA)
black, matt

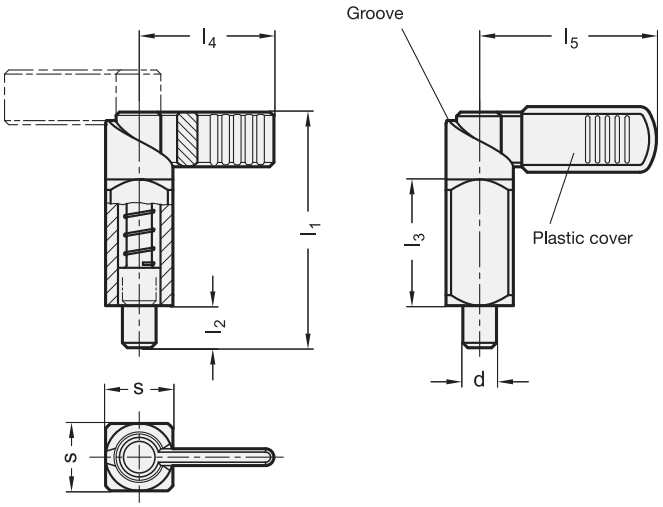
INFORMATION

Cam action indexing plungers GN 612.3 are used in cases where the locking pin must not protrude all the time. By rotating the lock through 180° the locking pin withdraws itself. A groove keeps the plunger in this position.
The square body can therefore be welded in any required position. In order to prevent a change in the spring load by the transferred heat we recommend spot welding the plunger body.

- Range of cam action indexing plungers (see page 816)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)
- Load rating information (see page A42)



*Complete with type index of the Cam action indexing plungers (A or B)

A without plastic cover
B with plastic cover

GN 612.3

Description	d Pin -0.02/-0.04 Bore +0.14/+0.1	s	l1	l2	l3	l4	l5	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 612.3-6-16-*	6	16	56	10	30	32	42	12	32	76
GN 612.3-8-16-*	8	16	56	10	30	32	42	12	32	79
GN 612.3-8-20-*	8	20	69	12	38	37	52	21	58	151
GN 612.3-10-16-*	10	16	56	10	30	32	42	12	32	80
GN 612.3-10-20-*	10	20	69	12	38	37	52	21	58	153
GN 612.3-12-20-*	12	20	69	12	38	37	52	21	58	158

GN 612.3-NI STAINLESS STEEL

Description	d Pin -0.02/-0.04 Bore +0.14/+0.1	s	l1	l2	l3	l4	l5	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 612.3-6-16-*-NI	6	16	56	10	30	32	42	12	32	76
GN 612.3-8-16-*-NI	8	16	56	10	30	32	42	12	32	76
GN 612.3-8-20-*-NI	8	20	69	12	38	37	52	21	58	151
GN 612.3-10-16-*-NI	10	16	56	10	30	32	42	12	32	76
GN 612.3-10-20-*-NI	10	20	69	12	38	37	52	21	58	153
GN 612.3-12-20-*-NI	12	20	69	12	38	37	52	21	58	158

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GN 722.1

Spring latches

for welding

SPECIFICATION

Version in Steel

Guide
Steel precision casting **ST**
blackened, weldable

Latch
Steel precision casting
zinc plated, blue passivated

Pin
Steel, zinc plated, blue passivated

Spring
Stainless Steel AISI 301

Version in Stainless Steel

Guide / Latch
Stainless Steel precision casting **A4**
weldable, AISI 316

Pin
Stainless Steel AISI 316

Spring
Stainless Steel AISI 316Ti

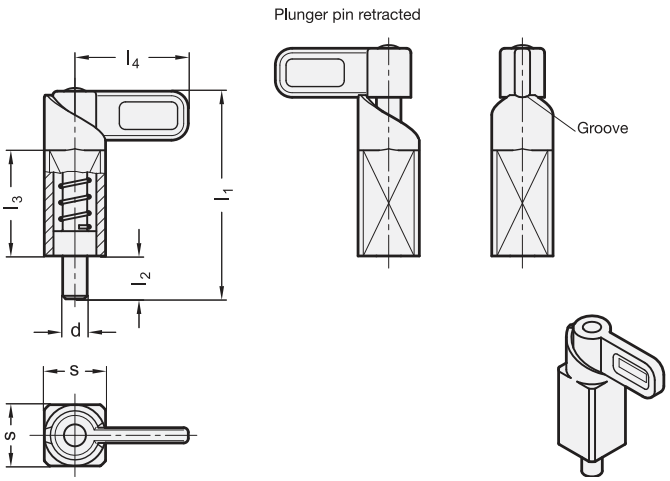
INFORMATION

Spring latches GN 722.1 are used when the indexing pin is temporarily not allowed to protrude. The indexing pin retracts by turning the latch by 180°. A lock notch will hold the latch in both positions.
The square bar allows the latch to be welded in any desired position. To prevent excessive heating up and the resulting change in the spring properties, fixing with welding spots is recommended.
Spring latches GN 722.1 are designed for use in **steel construction** or in **locksmith** shops where less precise positioning / locking is normally required. The dimensional tolerances are therefore chosen to ensure that functional safety is guaranteed under dirt exposure and that cost-effetive production methods are used.

- Range of cam action indexing plungers (see page 816)

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Load rating information (see page A42)



GN 722.1

Description	d Pin -0.05/-0.25 Bore +0.1/+0.3	s	l1 ≈	l2	l3	l4	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 722.1-8-20-ST	8	20	68	14	35	37	16	55	141
GN 722.1-10-20-ST	10	20	68	14	35	37	16	55	144
GN 722.1-12-20-ST	12	20	68	14	35	37	16	55	148
GN 722.1-14-20-ST	14	20	68	14	35	37	16	55	153

GN 722.1-A4 **STAINLESS STEEL**

Description	d Pin -0.05/-0.25 Bore +0.1/+0.3	s	l1 ≈	l2	l3	l4	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 722.1-8-20-A4	8	20	68	14	35	37	16	45	150
GN 722.1-10-20-A4	10	20	68	14	35	37	16	45	153
GN 722.1-12-20-A4	12	20	68	14	35	37	16	45	158
GN 722.1-14-20-A4	14	20	68	14	35	37	16	45	169

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Spring plungers

Steel / Stainless Steel, with ball / with slot

SPECIFICATION

Types

- Type **K**: Steel, standard spring load
- Type **KS**: Steel, high spring load
- Type **KN**: Stainless Steel, standard spring load
- Type **KSN**: Stainless Steel, high spring load

Type K / KS

- Housing Steel, blackened
- Ball Steel, 1.3505, hardened

Type KN / KSN

- Housing Stainless Steel AISI 303
- Ball Stainless Steel AISI 420C, hardened

Spring
Stainless Steel AISI 631

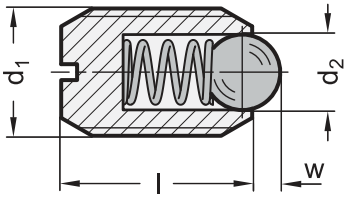
Marking of Type KS / KSN:
Housing with 2 longitudinal markings

INFORMATION

Spring plungers GN 615 are used as detents as well as for push-on and push-off applications and ejecetors.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)



GN 615-K/KS

Description	d1	d2	l ±0.1	w	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 615-M3-K	M 3	1.5	7	0.4	3	4.5	1
GN 615-M4-K	M 4	2.5	9	0.8	6	14.5	1
GN 615-M5-K	M 5	3	12	0.9	8	14	1
GN 615-M6-K	M 6	3.5	14	1	11	18	2
GN 615-M8-K	M 8	4.5	16	1.5	18	31	4
GN 615-M10-K	M 10	6	19	2	24	45	7
GN 615-M12-K	M 12	8	22	2.5	26	49	10
GN 615-M16-K	M 16	10	24	3.5	41	86	24
GN 615-M20-K	M 20	12	30	4.5	56	111	43
GN 615-M24-K	M 24	15	34	5.5	81	151	70
GN 615-M5-KS	M 5	3	12	0.9	15	22	1
GN 615-M6-KS	M 6	3.5	14	1	19	28	2
GN 615-M8-KS	M 8	4.5	16	1.5	36	62	4
GN 615-M10-KS	M 10	6	19	2	57	104	7
GN 615-M12-KS	M 12	8	22	2.5	61	110	10
GN 615-M16-KS	M 16	10	24	3.5	68	142	22
GN 615-M20-KS	M 20	12	30	4.5	84	166	43
GN 615-M24-KS	M 24	15	34	5.5	127	237	70

GN 615-KN/KSN

STAINLESS STEEL

Description	d1	d2	l ±0.1	w	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 615-M3-KN	M 3	1.5	7	0.4	3	4.5	1
GN 615-M4-KN	M 4	2.5	9	0.8	6	14.5	2
GN 615-M5-KN	M 5	3	12	0.9	8	14	1
GN 615-M6-KN	M 6	3.5	14	1	11	18	2
GN 615-M8-KN	M 8	4.5	16	1.5	18	31	4
GN 615-M10-KN	M 10	6	19	2	24	45	6
GN 615-M12-KN	M 12	8	22	2.5	26	49	10
GN 615-M16-KN	M 16	10	24	3.5	41	86	23
GN 615-M20-KN	M 20	12	30	4.5	56	111	43
GN 615-M24-KN	M 24	15	34	5.5	81	151	70
GN 615-M5-KSN	M 5	3	12	0.9	15	22	1
GN 615-M6-KSN	M 6	3.5	14	1	19	28	2
GN 615-M8-KSN	M 8	4.5	16	1.5	36	62	4
GN 615-M10-KSN	M 10	6	19	2	57	104	7
GN 615-M12-KSN	M 12	8	22	2.5	61	110	10
GN 615-M16-KSN	M 16	10	24	3.5	68	142	22
GN 615-M20-KSN	M 20	12	30	4.5	84	166	43
GN 615-M24-KSN	M 24	15	34	5.5	127	237	70

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Spring plungers

Steel / Stainless Steel, with ball / with internal hexagon

SPECIFICATION

Types

- Type **K**: Steel, standard spring load
- Type **KS**: Steel, high spring load
- Type **KN**: Stainless Steel, standard spring load
- Type **KSN**: Stainless Steel, high spring load

Type K / KS

- Steel, blackened
- Ball, hardened

Type KN / KSN

- Stainless Steel AISI 303 / AISI 420C
- Ball hardened

Marking of Type KS / KSN:
Housing with 2 longitudinal markings

- Thread lockings (optional)
- Polyamide patch **PFB**

Type K/KS M 3 ... M16
Type K*/KS* M20 ... M24
Type KN/KSN M3 ... M6
Type KN*/KSN* M20 ... M24

- Micro encapsulation* **MVK**

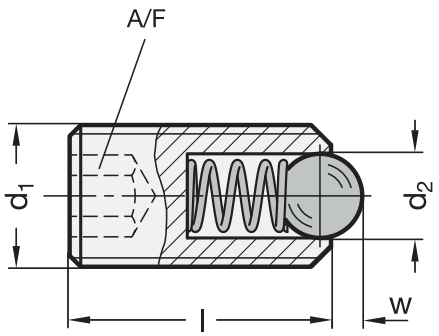
* not availble from stock, requires a minimum order quantity

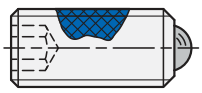
INFORMATION

The **PFB** patch is a **jamming** thread locking (Polyamide patch). The coating for Type K or KN (standard spring load) is indicated blue, for Type KS or KSN (high spring load) green. For this Type of thread locking a relatively high torque is required. Therefore this version with internal hexagon is more preferable than the version with slot GN 615 (see page 839).
MVK (Micro encapsulation) is a **gluing** thread locking (indicated red).

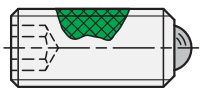
TECHNICAL INFORMATION

- More information to thread locking MVK (see page A24)
- More information to thread locking PFB (see page A24)

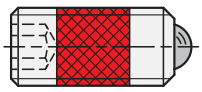




Thread locking **PFB**
Polyamide patch
for type **K** and **KN**



Thread locking **PFB**
Polyamide patch
for type **KS** and **KSN**



Thread locking **MVK**
Micro encapsulation precote
(for all types)

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GN 615.3 | Spring plungers

GN 615.3-K/KS

Description	d1	d2	l ±0.1	w	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 615.3-M3-K	M 3	1.5	8	0.4	1.5	3	4.5	1
GN 615.3-M4-K	M 4	2.5	12	0.8	2	8.5	14	1
GN 615.3-M5-K	M 5	3	14	0.9	2.5	8	14	1
GN 615.3-M6-K	M 6	3.5	15	1	3	11	18	2
GN 615.3-M8-K	M 8	4.5	18	1.5	4	18	31	4
GN 615.3-M10-K	M 10	6	23	2	5	24	45	8
GN 615.3-M12-K	M 12	8	26	2.5	6	26	49	13
GN 615.3-M16-K	M 16	10	33	3.5	8	41	86	31
GN 615.3-M20-K	M 20	12	43	4.5	10	56	111	65
GN 615.3-M24-K	M 24	15	48	5.5	12	81	151	103
GN 615.3-M5-KS	M 5	3	14	0.9	2.5	15	22	1
GN 615.3-M6-KS	M 6	3.5	15	1	3	19	28	2
GN 615.3-M8-KS	M 8	4.5	18	1.5	4	36	62	4
GN 615.3-M10-KS	M 10	6	23	2	5	57	104	8
GN 615.3-M12-KS	M 12	8	26	2.5	6	61	110	13
GN 615.3-M16-KS	M 16	10	33	3.5	8	68	142	32
GN 615.3-M20-KS	M 20	12	43	4.5	10	84	166	65
GN 615.3-M24-KS	M 24	15	48	5.5	12	127	237	105
GN 615.3-M3-K-MVK	M 3*	1.5	8	0.4	1.5	3	4.5	1
GN 615.3-M4-K-MVK	M 4*	2.5	12	0.8	2	8.5	14	1
GN 615.3-M5-K-MVK	M 5*	3	14	0.9	2.5	8	14	1
GN 615.3-M6-K-MVK	M 6*	3.5	15	1	3	11	18	1
GN 615.3-M8-K-MVK	M 8*	4.5	18	1.5	4	18	31	4
GN 615.3-M10-K-MVK	M 10*	6	23	2	5	24	45	8
GN 615.3-M12-K-MVK	M 12*	8	26	2.5	6	26	49	13
GN 615.3-M16-K-MVK	M 16*	10	33	3.5	8	41	86	26
GN 615.3-M20-K-MVK	M 20*	12	43	4.5	10	56	111	65
GN 615.3-M24-K-MVK	M 24*	15	48	5.5	12	81	151	103
GN 615.3-M5-KS-MVK	M 5*	3	14	0.9	2.5	15	22	1
GN 615.3-M6-KS-MVK	M 6*	3.5	15	1	3	19	28	2
GN 615.3-M8-KS-MVK	M 8*	4.5	18	1.5	4	36	62	4
GN 615.3-M10-KS-MVK	M 10*	6	23	2	5	57	104	8
GN 615.3-M12-KS-MVK	M 12*	8	26	2.5	6	61	110	13
GN 615.3-M16-KS-MVK	M 16*	10	33	3.5	8	68	142	32
GN 615.3-M20-KS-MVK	M 20*	12	43	4.5	10	84	166	65
GN 615.3-M24-KS-MVK	M 24*	15	48	5.5	12	127	237	103
GN 615.3-M3-K-PFB	M 3	1.5	8	0.4	1.5	3	4.5	1
GN 615.3-M4-K-PFB	M 4	2.5	12	0.8	2	8.5	14	1
GN 615.3-M5-K-PFB	M 5	3	14	0.9	2.5	8	14	1
GN 615.3-M6-K-PFB	M 6	3.5	15	1	3	11	18	2
GN 615.3-M8-K-PFB	M 8	4.5	18	1.5	4	18	31	4
GN 615.3-M10-K-PFB	M 10	6	23	2	5	24	45	8
GN 615.3-M12-K-PFB	M 12	8	26	2.5	6	26	49	13
GN 615.3-M16-K-PFB	M 16	10	33	3.5	8	41	86	30
GN 615.3-M20-K-PFB	M 20*	12	43	4.5	10	56	111	65
GN 615.3-M24-K-PFB	M 24*	15	48	5.5	12	81	151	103
GN 615.3-M5-KS-PFB	M 5	3	14	0.9	2.5	15	22	1
GN 615.3-M6-KS-PFB	M 6	3.5	15	1	3	19	28	2
GN 615.3-M8-KS-PFB	M 8	4.5	18	1.5	4	36	62	4
GN 615.3-M10-KS-PFB	M 10	6	23	2	5	57	104	8
GN 615.3-M12-KS-PFB	M 12	8	26	2.5	6	61	110	13
GN 615.3-M16-KS-PFB	M 16	10	33	3.5	8	68	142	32
GN 615.3-M20-KS-PFB	M 20*	12	43	4.5	10	84	166	65
GN 615.3-M24-KS-PFB	M 24*	15	48	5.5	12	127	237	103

* not availble from stock, requires a minimum order quantity

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GN 615.3 | Spring plungers

GN 615.3-KN/KSN

STAINLESS STEEL

Description	d1	d2	l ±0.1	w	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 615.3-M3-KN	M 3	1.5	8	0.4	1.5	3	4.5	1
GN 615.3-M4-KN	M 4	2.5	12	0.8	2	8.5	14	1
GN 615.3-M5-KN	M 5	3	14	0.9	2.5	8	14	1
GN 615.3-M6-KN	M 6	3.5	15	1	3	11	18	2
GN 615.3-M8-KN	M 8	4.5	18	1.5	4	18	31	4
GN 615.3-M10-KN	M 10	6	23	2	5	24	45	8
GN 615.3-M12-KN	M 12	8	26	2.5	6	26	49	13
GN 615.3-M16-KN	M 16	10	33	3.5	8	41	86	32
GN 615.3-M20-KN	M 20	12	43	4.5	10	56	111	65
GN 615.3-M24-KN	M 24	15	48	5.5	12	81	151	100
GN 615.3-M5-KSN	M 5	3	14	0.9	2.5	15	22	1
GN 615.3-M6-KSN	M 6	3.5	15	1	3	19	28	2
GN 615.3-M8-KSN	M 8	4.5	18	1.5	4	36	62	4
GN 615.3-M10-KSN	M 10	6	23	2	5	57	104	8
GN 615.3-M12-KSN	M 12	8	26	2.5	6	61	110	13
GN 615.3-M16-KSN	M 16	10	33	3.5	8	68	142	32
GN 615.3-M20-KSN	M 20	12	43	4.5	10	84	166	65
GN 615.3-M24-KSN	M 24	15	48	5.5	12	127	237	100
GN 615.3-M5-KN-MVK	M 5*	3	14	0.9	2.5	8	14	2
GN 615.3-M6-KN-MVK	M 6*	3.5	15	1	3	11	18	2
GN 615.3-M8-KN-MVK	M 8*	4.5	18	1.5	4	18	31	4
GN 615.3-M10-KN-MVK	M 10*	6	23	2	5	24	45	8
GN 615.3-M12-KN-MVK	M 12*	8	26	2.5	6	26	49	13
GN 615.3-M16-KN-MVK	M 16*	10	33	3.5	8	41	86	32
GN 615.3-M20-KN-MVK	M 20*	12	43	4.5	10	56	111	65
GN 615.3-M24-KN-MVK	M 24*	15	48	5.5	12	81	151	103
GN 615.3-M5-KSN-MVK	M 5*	3	14	0.9	2.5	15	22	1
GN 615.3-M6-KSN-MVK	M 6*	3.5	15	1	3	19	28	2
GN 615.3-M8-KSN-MVK	M 8*	4.5	18	1.5	4	36	62	4
GN 615.3-M10-KSN-MVK	M 10*	6	23	2	5	57	104	8
GN 615.3-M12-KSN-MVK	M 12*	8	26	2.5	6	61	110	13
GN 615.3-M16-KSN-MVK	M 16*	10	33	3.5	8	68	142	32
GN 615.3-M20-KSN-MVK	M 20*	12	43	4.5	10	84	166	65
GN 615.3-M24-KSN-MVK	M 24*	15	48	5.5	12	127	237	103
GN 615.3-M3-KN-PFB	M 3	1.5	8	0.4	1.5	3	4.5	2
GN 615.3-M4-KN-PFB	M 4	2.5	12	0.8	2	8.5	14	5
GN 615.3-M5-KN-PFB	M 5	3	14	0.9	2.5	8	14	1
GN 615.3-M6-KN-PFB	M 6	3.5	15	1	3	11	18	2
GN 615.3-M8-KN-PFB	M 8	4.5	18	1.5	4	18	31	4
GN 615.3-M10-KN-PFB	M 10	6	23	2	5	24	45	8
GN 615.3-M12-KN-PFB	M 12	8	26	2.5	6	26	49	13
GN 615.3-M16-KN-PFB	M 16	10	33	3.5	8	41	86	32
GN 615.3-M20-KN-PFB	M 20*	12	43	4.5	10	56	111	65
GN 615.3-M24-KN-PFB	M 24*	15	48	5.5	12	81	151	103
GN 615.3-M5-KSN-PFB	M 5	3	14	0.9	2.5	15	22	1
GN 615.3-M6-KSN-PFB	M 6	3.5	15	1	3	19	28	2
GN 615.3-M8-KSN-PFB	M 8	4.5	18	1.5	4	36	62	4
GN 615.3-M10-KSN-PFB	M 10	6	23	2	5	57	104	8
GN 615.3-M12-KSN-PFB	M 12	8	26	2.5	6	61	110	13
GN 615.3-M16-KSN-PFB	M 16	10	33	3.5	8	68	142	32
GN 615.3-M20-KSN-PFB	M 20*	12	43	4.5	10	84	166	65
GN 615.3-M24-KSN-PFB	M 24*	15	48	5.5	12	127	237	100

* not availble from stock, requires a minimum order quantity

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GN 615.4

Spring plungers

Steel / Stainless Steel, with bolt / with internal hexagon

SPECIFICATION

Types

- Type **B**: Steel, standard spring load
- Type **BN**: Stainless Steel, standard spring load
- Type **BS**: Steel, high spring load
- Type **BSN**: Stainless Steel, high spring load

Type B / BS:

- Steel, blackened
- Bolt hardened

Type BN / BSN

- Housing Stainless Steel AISI 303
- Bolt Stainless Steel AISI 420C, hardened

Marking of Type BS / BSN:
Housing with 2 longitudinal markings

Spring
Stainless Steel AISI 631

INFORMATION

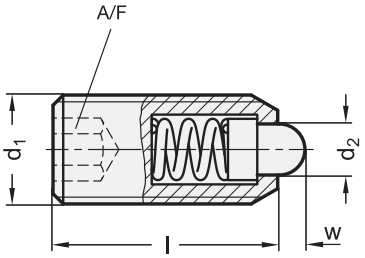
Spring plungers GN 615.4 are used as detents as well as for push-on and push-off applications and ejectors.

ON REQUEST

- with thread locking PFB / MVK

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)



GN 615.4-B/BS

Description	d1	d2 -0.1	l ±0.1	w	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 615.4-M4-B	M 4	1.8	12	1.5 +0.3/ -0.4	2	4.5	12.5	1
GN 615.4-M5-B	M 5	2.4	14	2	2.5	5	13	1
GN 615.4-M6-B	M 6	2.7	15	2	3	6	17	2
GN 615.4-M8-B	M 8	3.8	18	2	4	16	33	4
GN 615.4-M10-B	M 10	4.5	23	2.5	5	19	42	9
GN 615.4-M12-B	M 12	6.2	26	3.5	6	22	57	13
GN 615.4-M16-B	M 16	8.5	33	4.5 ±0.3	8	38	78	32
GN 615.4-M20-B	M 20	10	43	6.5	10	39	81	67
GN 615.4-M24-B	M 24	13	48	8	12	72	155	106
GN 615.4-M6-BS	M 6	2.7	15	2	3	11	25	2
GN 615.4-M8-BS	M 8	3.8	18	2	4	23	59	4
GN 615.4-M10-BS	M 10	4.5	23	2.5	5	20	54	9
GN 615.4-M12-BS	M 12	6.2	26	3.5	6	38	96	13
GN 615.4-M16-BS	M 16	8.5	33	4.5 ±0.3	8	50	100	32
GN 615.4-M20-BS	M 20	10	43	6.5	10	52	133	67
GN 615.4-M24-BS	M 24	13	48	8	12	91	223	100

GN 615.4-BN/BSN **STAINLESS STEEL**

Description	d1	d2 -0.1	l ±0.1	w	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 615.4-M4-BN	M 4	1.8	12	1.5 +0.3/ -0.4	2	4.5	12.5	1
GN 615.4-M5-BN	M 5	2.4	14	2	2.5	5	13	1
GN 615.4-M6-BN	M 6	2.7	15	2	3	6	17	2
GN 615.4-M8-BN	M 8	3.8	18	2	4	16	33	4
GN 615.4-M10-BN	M 10	4.5	23	2.5	5	19	42	9
GN 615.4-M12-BN	M 12	6.2	26	3.5	6	22	57	9
GN 615.4-M16-BN	M 16	8.5	33	4.5 ±0.3	8	38	78	32
GN 615.4-M20-BN	M 20	10	43	6.5	10	39	81	67
GN 615.4-M24-BN	M 24	13	48	8	12	72	155	104
GN 615.4-M6-BSN	M 6	2.7	15	2	3	11	25	2
GN 615.4-M8-BSN	M 8	3.8	18	2	4	23	59	4
GN 615.4-M10-BSN	M 10	4.5	23	2.5	5	20	54	9
GN 615.4-M12-BSN	M 12	6.2	26	3.5	6	38	96	13
GN 615.4-M16-BSN	M 16	8.5	33	4.5 ±0.3	8	50	100	32
GN 615.4-M20-BSN	M 20	10	43	6.5	10	52	133	68
GN 615.4-M24-BSN	M 24	13	48	8	12	91	223	105

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Spring plungers

Steel / Stainless Steel, with bolt / with slot

SPECIFICATION

Types

- Type **B**: Steel, standard spring load
- Type **BN**: Stainless Steel, standard spring load
- Type **BS**: Steel, high spring load
- Type **BSN**: Stainless Steel, high spring load

Type B / BS

- Steel, blackened
- Bolt, hardened

Type BN / BSN

- Housing Stainless Steel AISI 303
- Ball Stainless Steel AISI 420C, hardened

Spring
Stainless Steel AISI 631

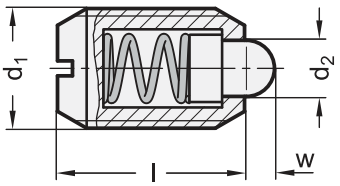
Marking of Type BS / BSN
Housing with 2 longitudinal markings

INFORMATION

Spring plungers GN 615.1 are used as detents as well as for push-on and push-off applications and ejectors.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)



GN 615.1-B/BS

Description	d1	d2 -0.1	l ±0.1	w	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 615.1-M4-B	M 4	1.8	9	1.5 +0.3/ -0.4	4.5	12.5	1
GN 615.1-M5-B	M 5	2.4	12	2	5	13	1
GN 615.1-M6-B	M 6	2.7	14	2	6	17	2
GN 615.1-M8-B	M 8	3.8	16	2	16	33	4
GN 615.1-M10-B	M 10	4.5	19	2.5	19	42	7
GN 615.1-M12-B	M 12	6	22	3.5	22	57	10
GN 615.1-M16-B	M 16	8.5	24	4.5 ±0.3	38	78	22
GN 615.1-M20-B	M 20	10	30	6.5	39	81	43
GN 615.1-M24-B	M 24	13	34	8	72	155	70
GN 615.1-M6-BS	M 6	2.7	14	2	11	25	2
GN 615.1-M8-BS	M 8	3.8	16	2	23	59	4
GN 615.1-M10-BS	M 10	4.5	19	2.5	20	54	7
GN 615.1-M12-BS	M 12	6	22	3.5	38	96	10
GN 615.1-M16-BS	M 16	8.5	24	4.5 ±0.3	50	100	24
GN 615.1-M20-BS	M 20	10	30	6.5	52	133	40
GN 615.1-M24-BS	M 24	13	34	8	91	223	70

GN 615.1-BN/BSN

STAINLESS STEEL

Description	d1	d2 -0.1	l ±0.1	w	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 615.1-M4-BN	M 4	1.8	9	1.5 +0.3/ -0.4	4.5	12.5	1
GN 615.1-M5-BN	M 5	2.4	12	2	5	13	1
GN 615.1-M6-BN	M 6	2.7	14	2	6	17	2
GN 615.1-M8-BN	M 8	3.8	16	2	16	33	4
GN 615.1-M10-BN	M 10	4.5	19	2.5	19	42	7
GN 615.1-M12-BN	M 12	6	22	3.5	22	57	10
GN 615.1-M16-BN	M 16	8.5	24	4.5 ±0.3	38	78	24
GN 615.1-M20-BN	M 20	10	30	6.5	39	81	40
GN 615.1-M24-BN	M 24	13	34	8	72	155	70
GN 615.1-M6-BSN	M 6	2.7	14	2	11	25	2
GN 615.1-M8-BSN	M 8	3.8	16	2	23	59	4
GN 615.1-M10-BSN	M 10	4.5	19	2.5	20	54	7
GN 615.1-M12-BSN	M 12	6	22	3.5	38	96	10
GN 615.1-M16-BSN	M 16	8.5	24	4.5 ±0.3	50	100	23
GN 615.1-M20-BSN	M 20	10	30	6.5	52	133	43
GN 615.1-M24-BSN	M 24	13	34	8	91	223	70

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GN 815

Spring plungers

Steel / Stainless Steel, with ball / with collar

SPECIFICATION

Version in Steel ST

- Housing blackened
- Ball hardened

Version in Stainless Steel NI

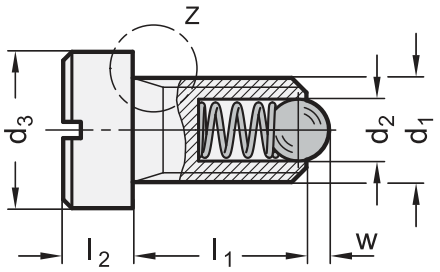
- Housing AISI 303
- Ball AISI 420C hardened

INFORMATION

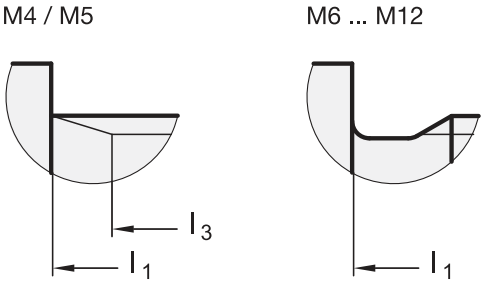
Spring plungers GN 815 are used as detents as well as for push-on and push-off applications and ejecotors.
The collar gives a defined installation position.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)



Detail Z; End of thread:



GN 815

Description	d1	d2	d3	l1	l2	l3	w	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 815-M4-ST	M 4	2.5	6	6.5	3	5	0.8	8	14	1
GN 815-M5-ST	M 5	3	8	8.5	4	6.7	0.9	8	14	5
GN 815-M6-ST	M 6	3.5	10	9	5	-	1	11	18	5
GN 815-M8-ST	M 8	4.5	13	11	5.5	-	1.5	18	31	10
GN 815-M10-ST	M 10	6	16	14	6	-	2	24	45	15
GN 815-M12-ST	M 12	8	18	15	7	-	2.5	26	49	25

GN 815-NI **STAINLESS STEEL**

Description	d1	d2	d3	l1	l2	l3	w	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 815-M4-NI	M 4	2.5	6	6.5	3	5	0.8	8	14	2
GN 815-M5-NI	M 5	3	8	8.5	4	6.7	0.9	8	14	5
GN 815-M6-NI	M 6	3.5	10	9	5	-	1	11	18	5
GN 815-M8-NI	M 8	4.5	13	11	5.5	-	1.5	18	31	8
GN 815-M10-NI	M 10	6	16	14	6	-	2	24	45	15
GN 815-M12-NI	M 12	8	18	15	7	-	2.5	26	49	20

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GN 615.2

Plastic-Spring plungers

with ball, with slot

SPECIFICATION

Housing
Plastic (Polyacetal POM)
temperature resistant up to 50 °C

Ball

- Stainless Steel AISI 420C **NI**, hardened
- Plastic (Polyacetal POM) **P**

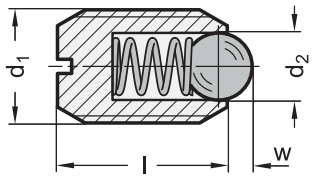
Spring
Stainless Steel AISI 631
(all versions)

INFORMATION

Plastic-Spring plungers GN 615.2 are used as detents as well as for push-on and push-off applications and ejectors.
These spring plungers are all stainless versions.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)



GN 615.2 — STAINLESS STEEL

Description	d1	d2	l	w	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 615.2-M6-P	M 6	3.5	14	0.9	12	17	1
GN 615.2-M8-P	M 8	5	16	1.5	20	35	1
GN 615.2-M10-P	M 10	6	19	1.9	25	45	2
GN 615.2-M6-NI	M 6	3.5	14	0.9	12	17	1
GN 615.2-M8-NI	M 8	5	16	1.5	20	35	1
GN 615.2-M10-NI	M 10	6	19	1.9	25	45	3

GN 614.2

Spring plunger

Press on type, ball double ended

SPECIFICATION

Housing
Brass

Ball
Stainless Steel AISI 420C
hardened

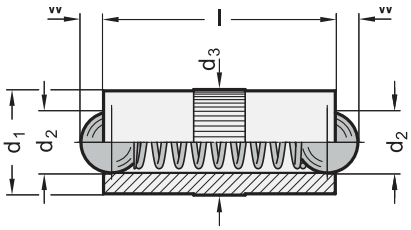
Spring
Stainless Steel AISI 631

INFORMATION

Spring plungers GN 614.2 are a result of a further development of spring plungers type GN 614 (see page 847) for special applications. A tolerance H8 is recommended for the locating bore of d1.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)



GN 614.2

Description	d1	d2	d3 +0.05	l	w	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 614.2-2,5	2.5	2	2.52	5.3	0.65	1.3	2.5	1
GN 614.2-3	3	2.5	3.02	7.3	0.8	2	4.5	1
GN 614.2-4	4	3	4.03	9	0.9	2.5	7.5	1
GN 614.2-5	5	4	5.03	10.8	1.2	3.5	8	1
GN 614.2-6	6	5	6.03	12.6	1.6	3.5	10.5	2
GN 614.2-7	7	6	7.03	14	2	4	12	3
GN 614.2-8	8	6.5	8.03	18	2.1	6	15	5

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Spring plungers

Stainless Steel / Brass / Plastic, Press on type, with ball

SPECIFICATION

Housing and Ball Stainless Steel NI

- AISI 305 / 420C
- Housing sheet-metal
- Ball hardened

Housing Brass MS

- turned
- Ball Stainless Steel AISI 420C, hardened

Housing Plastic (Polyacetal POM) KU

- temperature resistant up to 50 °C
- Ball Stainless Steel AISI 420C, hardened

Housing and Ball Plastic (Polyacetal POM) KD
temperature resistant up to 50 °C

Spring
Stainless Steel AISI 631

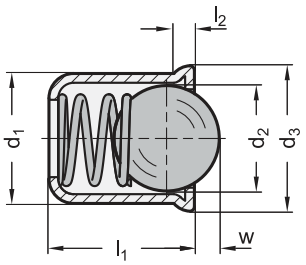
INFORMATION

Spring plungers GN 614 are used as detents as well as for push-on and push-off applications and ejectors.
A tolerance of H7 for the location hole of d_1 is recommended.
Due to different production methods, the dimensions l_2 and l_3 are different.

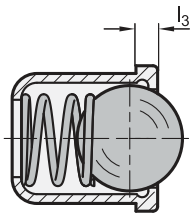
TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)

Type **NI**



Type **MS / KU / KD**



GN 614-NI

STAINLESS STEEL

Description	d1 +0.1	d2	d3	l1 ≈	l2 ≈	w	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 614-3-NI	3	2.4	3.5	4	0.75	0.7	1.8	3.5	1
GN 614-4-NI	4	3	4.6	5	0.9	1	2.5	6	1
GN 614-5-NI	5	4	5.6	6	0.9	1.4	3	6.5	1
GN 614-6-NI	6	5	6.5	7	1	1.8	5.5	11.5	1
GN 614-8-NI	8	6.5	8.5	9	1.1	2.4	7	12.5	2
GN 614-10-NI	10	8.5	11	13	1.5	3.3	8.5	18.5	4
GN 614-12-NI	12	10	13	16	2.3	4	12	26.5	8

GN 614-MS

Description	d1 +0.1	d2	d3	l1 ≈	l3 ±0.1	w	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 614-3-MS	3	2.4	3.5	4	0.6	0.6	1.8	3.5	2
GN 614-4-MS	4	3	4.6	5	1	0.8	2.5	6	1
GN 614-5-MS	5	4	5.6	6	1	1	3	6.5	1
GN 614-6-MS	6	5	6.5	7	1	1.6	5.5	11.5	1
GN 614-8-MS	8	6.5	8.5	9	1	1.9	7	12.5	3

GN 614-KU

Description	d1 +0.1	d2	d3	l1 ≈	l3 ±0.1	w	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 614-3-KU	3	2	3.5	4	0.6	0.6	1.7	3.6	1
GN 614-4-KU	4	3	4.6	5	1	0.8	2.5	6.5	1
GN 614-5-KU	5	4	5.6	6	1	1	4.5	9	1
GN 614-6-KU	6	5	6.5	7	1	1.6	6.5	13	1
GN 614-8-KU	8	6.5	8.5	9	1	1.9	8	18	2
GN 614-10-KU	10	8	11	13.5	1.5	2.4	12	23	3
GN 614-12-KU	12	10	13	16	1.5	3.3	13	25	6

GN 614-KD

Description	d1 +0.1	d2	d3	l1 ≈	l3 ±0.1	w	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 614-4-KD	4	3	4.6	5	1	0.8	2.5	6.5	1
GN 614-5-KD	5	4	5.6	6	1	1	4.5	9	1
GN 614-6-KD	6	5	6.5	7	1	1.6	6.5	13	1
GN 614-8-KD	8	6.5	8.5	9	1	1.9	8	18	1
GN 614-10-KD	10	8	11	13.5	1.5	2.4	12	23	1
GN 614-12-KD	12	10	13	16	1.5	3.3	13	25	2

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Holder for spring plungers / Side thrust pins

SPECIFICATION

Types

- Type **LKU**: Fixing from the left, with spring plunger
- Type **RKU**: Fixing from the right, with spring plunger
- Type **BKU**: Fixing from both sides, with spring plunger
- Type **L**: Fixing from the left, without spring plunger
- Type **R**: Fixing from the right, without spring plunger
- Type **B**: Fixing from both sides, without spring plunger

Zinc die casting
nickel plated

Spring plungers GN 614-KU (see page 847)

Housing
Plastic (Polyacetal POM)
temperature resistant up to 50 °C

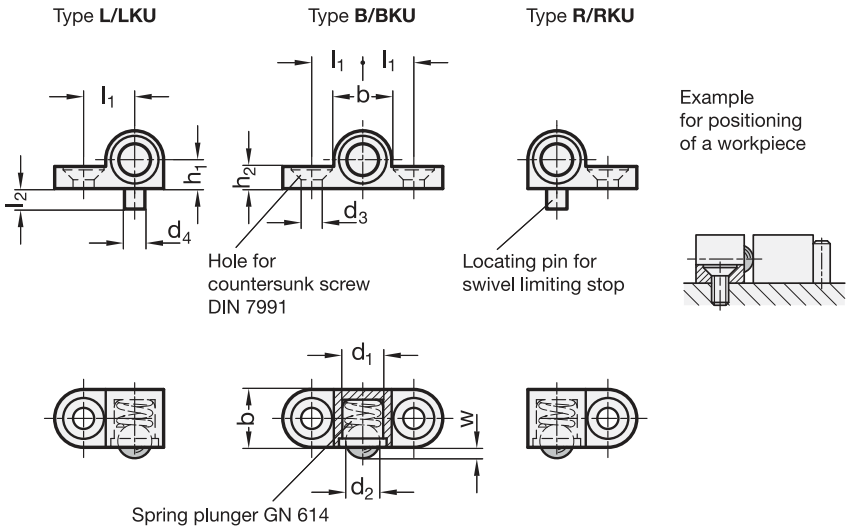
Ball Stainless Steel AISI 420C, hardened

INFORMATION

Holder for spring plungers / Side thrust pins GN 614.1 are used for arresting and as press-on or press-off elements. The easy attachment using one or two countersunk screws also allows its use where a location borehole with the tolerance field H7 for the spring plunger would not be possible from its size and manufacturability.
Side thrust pins GN 614.1 consist of a holder for spring plungers and a Stainless Steel-Spring plunger GN 614 of type KU (see page 847).
For types R, L and B, only a „empty" holder for spring plungers (without spring plungers) are supplied which can then be used together with all other design variants of GN 614-6 and GN 614-8 of the types KD, MS and NI.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)



*Complete with type index of the Holder for spring plungers

LKU **RKU** **BKU** **L** **R** **B**

GN 614.1

Description	d1	d2	d3	d4 -0.05	b	h1 ±0.05	h2	l1 ±0.05	l2	w -0.1	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 614.1-6-*	6	5	3.2 | M 3	3	8.5	4.25	3.2	7.5	3	1.6	6.5	13	4
GN 614.1-8-*	8	6.5	4.3 | M 4	4	10.5	5.25	4.2	9.5	4	1.9	8	18	7

Weight type LKU

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GN 614.5

Spring plungers

press on type, with ball

SPECIFICATION

Housing
Plastic (Polyacetal POM) **KU**
temperature resistant up to 50 °C

Ball
Stainless Steel

- AISI 420C
- hardened

Housing and ball
Plastic (Polyacetal POM) **KD**
temperature resistant up to 50 °C

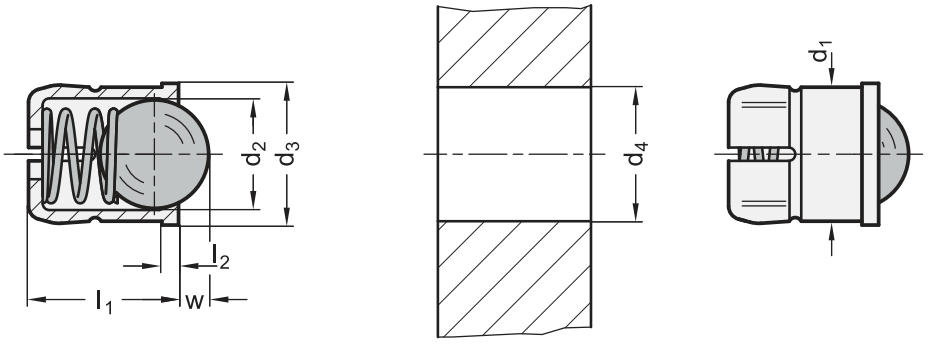
Spring
Stainless Steel AISI 631

INFORMATION

Spring plungers GN 614.5 are used as detents as well as for push-on and push-off applications and ejectors.
The geometric shape of the plastic housing generates a self-clamping function which compensates drill hole tolerances of as much as 0.2 mm. It also allows the hand-tightened assembly and makes overhead installation easier.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)



GN 614.5-KD — **STAINLESS STEEL**

Description	d1 +0.1	d2	d3	d4 +0.2	l1 ±0.2	l2	w	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 614.5-4-KD	4	3	4.6	4	5	1	0.8	3	6.5	1
GN 614.5-5-KD	5	4	5.6	5	6	1	1	6	9.4	1
GN 614.5-6-KD	6	5	6.5	6	7	1	1.6	6.2	12.6	1
GN 614.5-8-KD	8	6.5	8.5	8	9	1	1.9	10	20.4	1
GN 614.5-10-KD	10	8	11	10	13.5	1.5	2.4	11.9	22.3	2

GN 614.5-KU — **STAINLESS STEEL**

Description	d1 +0.1	d2	d3	d4 +0.2	l1 ±0.2	l2	w	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 614.5-4-KU	4	3	4.6	4	5	1	0.8	3	6.5	1
GN 614.5-5-KU	5	4	5.6	5	6	1	1	6	9.4	1
GN 614.5-6-KU	6	5	6.5	6	7	1	1.6	6.2	12.6	1
GN 614.5-8-KU	8	6.5	8.5	8	9	1	1.9	10	20.4	2
GN 614.5-10-KU	10	8	11	10	13.5	1.5	2.4	11.9	22.3	3

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Spring loaded shells

SPECIFICATION

Types

- Type **H**: Semi-spherical, Steel
- Type **HN**: Semi-spherical, Stainless Steel
- Type **K**: Pointed nose

Housing

- Type H / K: Steel, nickel plated
- Type HN: Stainless Steel AISI 305

Spring
Stainless Steel AISI 301

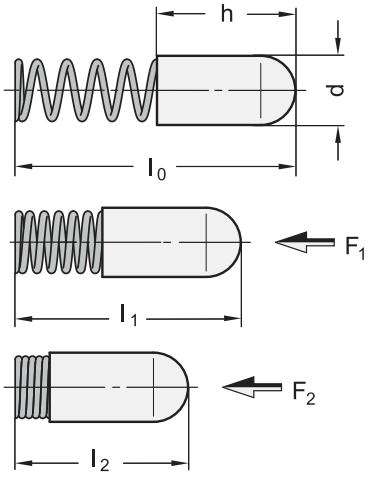
INFORMATION

Spring loaded sheels GN 610 have beend designed for applications where in a confined space relatively long strokes are required. In such cases the depth of the mounting hole is determined by the preload required.

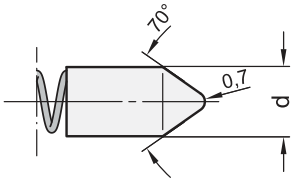
TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)

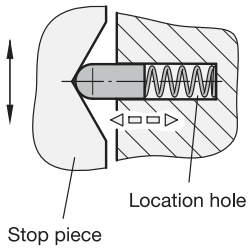
Type **H / HN**



Type **K**



Application example



GN 610 — **STAINLESS STEEL**

Description	d ±0.05	l0	h	l1	F1 Spring load in N ≈	l2	F2 Spring load in N ≈	⚖
GN 610-2,2-16-H	2.2	16	7.8	12	2.2	10.5	3	1
GN 610-2,6-8-H	2.6	8	3.8	6.5	1.1	5.2	2	1
GN 610-3-12-H	3	12	6	9	6.2	8.7	6.8	1
GN 610-3-16-H	3	16	8.5	13	4.8	10.7	8.4	1
GN 610-3,4-12-H	3.4	12	6	9	5	7.8	7	1
GN 610-3,4-15-H	3.4	15	7.3	12	5.9	8.2	13.3	1
GN 610-4-14-H	4	14	8	12	5	9	12.3	1
GN 610-5-16-H	5	16	8	13	8	10.4	15	1
GN 610-2,2-16-K	2.2	16	7.8	12	2.2	12.5	3	1
GN 610-3-11-K	3	11	5	9	1.6	6.7	3.4	1
GN 610-3-16-K	3	16	8.5	13	4.8	10.7	8.4	1
GN 610-3-16-HN	3	16	8	13	4.8	10.6	8.6	1
GN 610-3,6-18-HN	3.6	18	9	15	6.7	11.5	14.5	1
GN 610-4-16-HN	4	16	7.5	13	8	11.4	12.3	1

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GN 249

Ball buttons

for spring plungers

SPECIFICATION

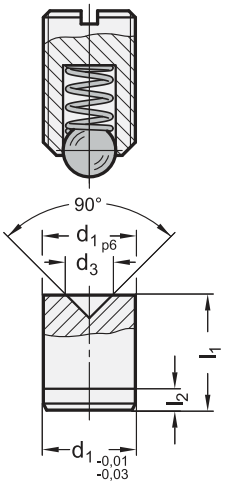
Steel
hardened and ground

INFORMATION

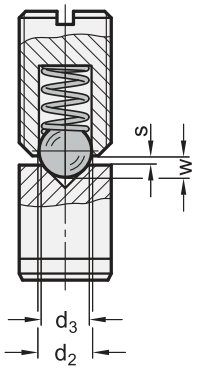
Ball buttons GN 249 are mainly used with spring plungers when a nonwearing and exact positioning is needed.
These ball buttons are especially recommended for use with spring plungers with high spring loads.

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)



$$s = w - \left(\frac{d_2 + d_3}{2} - \frac{\sqrt{2}}{2}\, d_2\right)$$



GN 249

Description	d1 p6	d2	d3	l1 ±0.05	l2	w	s For GN 614	s For GN 615, GN 615.2 GN 615.3	s For GN 615.1	s For GN 616	⚖
GN 249-4	4	*	1.5	5	2	*	-	M 4=0.6	M 4=1.1	M 4=1.1	1
GN 249-5	5	*	2	6	2	*	Ø 4=0.4	M 5=0.4	M 5=1.5	M 5=1.8	1
GN 249-6	6	*	2	8	2	*	Ø 5=0.8	M 6=0.6	M 6=1.6	M 6=2.1	2
GN 249-8	8	*	3	10	2	*	Ø 6=1.1	M 8=0.9	M 8=1.3	M 8=2.2	4
GN 249-10	10	*	4	12	3	*	Ø 8=1.2	M 10=1.2	M 10=1.4	M 10=1.8	7
GN 249-12	12	*	6	14	3	*	Ø 10=1.9	M 12=1.2	M 12=1.7	M 12=2.2	12
GN 249-16	16	*	8	18	3	*	Ø 12=1.9	M 16=1.6	M 16=2.3	M 16=2.5	20

* see spring plunger

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GN 250

Indent blocks

for spring plungers

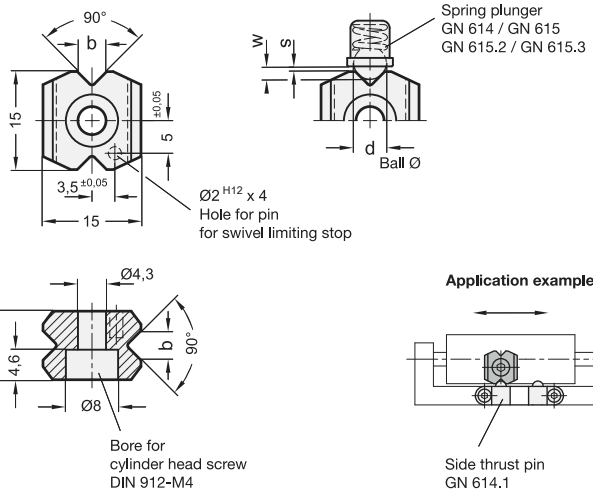
SPECIFICATION

Sintered Steel

- case hardened
- blank

INFORMATION

Indent blocks GN 250 are used together with spring plungers for detent or positioning of sliders, flaps and similar applications.



GN 250

Description	h	b ±0.1	Size	d	w	s min.	⚖
GN 250-8,5	8.5	3.4	M 8 *	5	1.6	0.9	10
GN 250-10,5	10.5	4.5	M10 *	6.5	1.9	1	11
GN 250-8,5	8.5	3.4	M 8 **	4.5	1.5	0.8	10
GN 250-10,5	10.5	4.5	M 10 **	6	2	1	11

* for GN 614 | ** for GN 615 / GN 615.2 / GN 615.3

GN 614.3

Stainless Steel-Spring plunger

with ball / without thread

SPECIFICATION

Housing
Stainless Steel AISI 303 **NI**

Ball
Stainless Steel AISI 420C
hardened

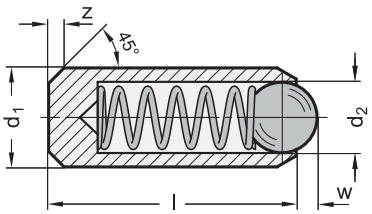
Spring
Stainless Steel AISI 631

INFORMATION

Spring plungers GN 614.3 are installed axially through the depth of the bore whereby the dimension "z" of the chamfer has to be taken into consideration.
Due to the thin wall of the shell press fitting is not recommended.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)



GN 614.3 **STAINLESS STEEL**

Description	d1 ±0.04	d2	l	w	z	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 614.3-3-NI	3	2	7	0.65	0.15	4.5	7.5	1
GN 614.3-3,5-NI	3.5	2.5	9	0.8	0.15	6	14.5	1
GN 614.3-4-NI	4	3	11	0.9	0.25	8	14	1
GN 614.3-4,5-NI	4.5	3.2	12	0.95	0.25	9.5	16.5	1
GN 614.3-5-NI	5	3.5	13	1	0.25	11	18	2
GN 614.3-5,5-NI	5.5	4	14	1.2	0.3	15.5	25	2
GN 614.3-6-NI	6	4.5	15	1.5	0.3	18	31	2

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GN 614.4

Spring plungers

Press on type / with bolt

SPECIFICATION

Housing
Stainless Steel AISI 305

Bolt

Stainless Steel AISI 303 **NI**

Plastic **KU**
Polyacetal POM, white
temperature resistant up to +50 °C

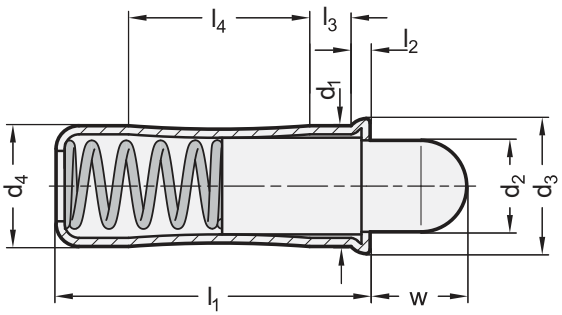
Spring
Stainless Steel AISI 631

INFORMATION

Spring plungers GN 614.4 are used for locking, as pressing and back-off pins, but also as impact dampers.
A tolerance of H7 for the location hole of d_1 is recommended.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)



GN 614.4-KU

Description	d1 +0.1	d2	d3	d4 ±0.0.5	l1	l2 ≈	l3 ≈	l4 ≈	w	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 614.4-4-KU	4	2.8	4.6	4	10.7	0.9	1.8	5.6	2.7	3	8.2	1
GN 614.4-5-KU	5	3.8	5.6	5	12	0.9	2.1	6	4	3.3	9	1
GN 614.4-6-KU	6	4.8	6.5	6	15	1	2.3	8.2	5.5	6.1	12	1
GN 614.4-8-KU	8	6.2	8.5	8	18	1.1	2.9	9.5	6.5	10.7	17	3
GN 614.4-10-KU	10	8	11	10	26	1.5	3.5	15	8	16.2	29	3

GN 614.4-NI **STAINLESS STEEL**

Description	d1 +0.1	d2	d3	d4 ±0.0.5	l1	l2 ≈	l3 ≈	l4 ≈	w	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 614.4-4-NI	4	2.8	4.6	4	10.7	0.9	1.8	5.6	2.7	3	8.2	1
GN 614.4-5-NI	5	3.8	5.6	5	12	0.9	2.1	6	4	3.3	9	1
GN 614.4-6-NI	6	4.8	6.5	6	15	1	2.3	8.2	5.5	6.1	12	2
GN 614.4-8-NI	8	6.2	8.5	8	18	1.1	2.9	9.5	6.5	10.7	17	4
GN 614.4-10-NI	10	8	11	10	26	1.5	3.5	15	8	16.2	29	9

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Spring plungers

Steel / Stainless Steel, with bolt / with internal hexagon

SPECIFICATION

Version in Steel

Types

- Type **S**: Bolt Steel, standard spring load
- Type **SS**: Bolt Steel, high spring load
- Type **K**: Bolt Plastic, standard spring load

Housing

Steel, blackened

Type S / SS
Bolt Steel, hardened

Type K
Bolt Plastic (Polyacetal POM)
temperature resistant up to 50 °C

Spring
Stainless Steel AISI 631

Marking of Type SS
Housing with 2 longitudinal markings

Version in Stainless Steel

Types

- Type **SN**: Bolt Stainless Steel, standard spring load
- Type **KN**: Bolt Plastic, standard spring load

Housing
Stainless Steel AISI 303

Type SN
Bolt Stainless Steel AISI 303

Type KN
Bolt Plastic (Polyacetal POM)
temperature resistant up to 50 °C

Spring
Stainless Steel AISI 631

INFORMATION

Spring plungers GN 616 are used as detents as well as for push-on and push-off applications and ejecetors.
The slot on the plunger side is provieded for blind hole applications.
A special screw driver GN 616.5 is available.

ACCESSORY

- Screw drivers GN 616.5 (Code no. see table)

ON REQUEST

- with thread locking PFB / MVK

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)

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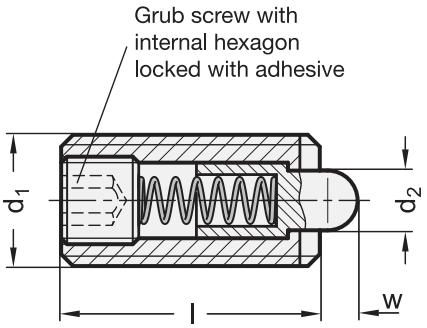
GN 616 | Spring plungers



GN 616

Description	d1	d2	l ±0.2	A/F	w +0.3/0.1	Spring load in N ≈ initial	Spring load in N ≈ end	Code no. for screw driver	⚖
GN 616-M3-S	M 3	1	12	0.7	1	2	4	GN 616.5-M3	1
GN 616-M4-S	M 4	1.5	15	1.3	1.5	4.5	16	GN 616.5-M4	1
GN 616-M5-S	M 5	2.4	18	1.5	2.3	6	19	GN 616.5-M5	2
GN 616-M6-S	M 6	2.7	20	2	2.5	6	19	GN 616.5-M6	3
GN 616-M8-S	M 8	3.5	22	2.5	3	10	39	GN 616.5-M8	6
GN 616-M10-S	M 10	4	22	3	3	10	39	GN 616.5-M10	9
GN 616-M12-S	M 12	6	28	4	4	12	53	GN 616.5-M12	16
GN 616-M16-S	M 16	7.5	32	5	5	45	100	GN 616.5-M16	35
GN 616-M20-S	M 20	10	40	6	7	52	125	GN 616.5-M20	65
GN 616-M24-S	M 24	12	52	8	10	70	170	GN 611.5-M24	131
GN 616-M8-SS	M 8	3.5	22	2.5	3	20	75	GN 616.5-M8	6
GN 616-M10-SS	M 10	4	22	3	3	20	75	GN 616.5-M10	9
GN 616-M12-SS	M 12	6	28	4	4	54	120	GN 616.5-M12	16
GN 616-M16-SS	M 16	7.5	32	5	5	64	160	GN 616.5-M16	30
GN 616-M20-SS	M 20	10	40	6	7	75	195	GN 616.5-M20	65
GN 616-M24-SS	M 24	12	52	8	10	75	245	GN 611.5-M24	120
GN 616-M4-K	M 4	1.5	15	1.3	1.5	4.5	16	GN 616.5-M4	1
GN 616-M5-K	M 5	2.4	18	1.5	2.3	6	19	GN 616.5-M5	2
GN 616-M6-K	M 6	2.7	20	2	2.5	6	19	GN 616.5-M6	2
GN 616-M8-K	M 8	3.5	22	2.5	3	10	39	GN 616.5-M8	5
GN 616-M10-K	M 10	4	22	3	3	10	39	GN 616.5-M10	10
GN 616-M12-K	M 12	6	28	4	4	12	53	GN 616.5-M12	14
GN 616-M16-K	M 16	7.5	32	5	5	45	100	GN 616.5-M16	31

GN 616-SN/KN **STAINLESS STEEL**

Description	d1	d2	l ±0.2	A/F	w +0.3/0.1	Spring load in N ≈ initial	Spring load in N ≈ end	Code no. for screw driver	⚖
GN 616-M4-SN	M 4	1.5	15	1.3	1.5	4.5	16	GN 616.5-M4	1
GN 616-M5-SN	M 5	2.4	18	1.5	2.3	6	19	GN 616.5-M5	2
GN 616-M6-SN	M 6	2.7	20	2	2.5	6	19	GN 616.5-M6	3
GN 616-M8-SN	M 8	3.5	22	2.5	3	10	39	GN 616.5-M8	6
GN 616-M10-SN	M 10	4	22	3	3	10	39	GN 616.5-M10	9
GN 616-M12-SN	M 12	6	28	4	4	12	53	GN 616.5-M12	16
GN 616-M16-SN	M 16	7.5	32	5	5	45	100	GN 616.5-M16	35
GN 616-M20-SN	M 20	10	40	6	7	52	125	GN 616.5-M20	67
GN 616-M4-KN	M 4	1.5	15	1.3	1.5	4.5	16	GN 616.5-M4	1
GN 616-M5-KN	M 5	2.4	18	1.5	2.3	6	19	GN 616.5-M5	2
GN 616-M6-KN	M 6	2.7	20	2	2.5	6	19	GN 616.5-M6	3
GN 616-M8-KN	M 8	3.5	22	2.5	3	10	39	GN 616.5-M8	5
GN 616-M10-KN	M 10	4	22	3	3	10	39	GN 616.5-M10	9
GN 616-M12-KN	M 12	6	28	4	4	12	53	GN 616.5-M12	16
GN 616-M16-KN	M 16	7.5	32	5	5	45	100	GN 616.5-M16	32

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Spring plungers

with bolt / long version

SPECIFICATION

Types

- Type **L**: standard spring load
- Type **LS**: high spring load

Steel
blackened

Bolt
case hardened

Marking of Type LS:
Housing with 2 longitudinal markings

INFORMATION

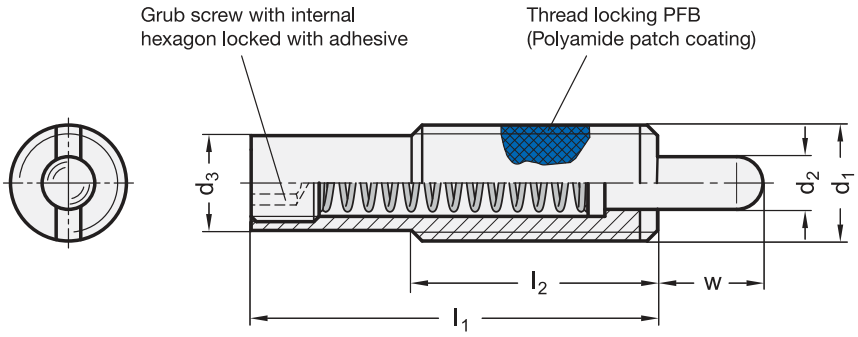
Spring plungers GN 611 are used as ejectors, push-on and push-off operations in the sheet metal industry, as well as cushioners.
The slot on the plunger side is provided for blind hole application.
A special screw driver GN 611.5 is available (see table).

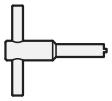
TECHNICAL INFORMATION

- More information to thread locking PFB (see page A24)

ACCESSORY

- Screw drivers GN 611.5 (Code no. see table)





GN 611

Description	d1	w	d2	d3	l1	l2	A/F	Spring load in N ≈ initial	Spring load in N ≈ end	Code no. for screw driver	⚖
GN 611-M10-8-L	M 10	8	4	7.8	35	25	3	6	16	GN 611.5-M10	13
GN 611-M12-10-L	M 12	10	5.5	9.5	43	35	4	4	18	GN 611.5-M12	22
GN 611-M16-10-L	M 16	10	8	13.4	48	35	6	7	24	GN 611.5-M16	42
GN 611-M16-15-L	M 16	15	8	13.4	58	35	6	9	33	GN 611.5-M16	54
GN 611-M16-20-L	M 16	20	8	13.4	58	35	6	4	23	GN 611.5-M16	66
GN 611-M16-25-L	M 16	25	8	13.4	98	35	6	13	41	GN 611.5-M16	78
GN 611-M16-30-L	M 16	30	8	13.4	98	35	6	13	47	GN 611.5-M16	80
GN 611-M16-40-L	M 16	40	8	13.4	148	35	6	13	63	GN 611.5-M16	115
GN 611-M16-50-L	M 16	50	8	13.4	148	35	6	7	43	GN 611.5-M16	127
GN 611-M12-10-LS	M 12	10	5.5	9.5	43	35	4	7	46	GN 611.5-M12	23
GN 611-M16-10-LS	M 16	10	8	13.4	48	35	6	10	43	GN 611.5-M16	42
GN 611-M16-15-LS	M 16	15	8	13.4	58	35	6	10	57	GN 611.5-M16	50
GN 611-M16-20-LS	M 16	20	8	13.4	83	35	6	18	72	GN 611.5-M16	71
GN 611-M16-25-LS	M 16	25	8	13.4	98	35	6	20	70	GN 611.5-M16	78
GN 611-M16-30-LS	M 16	30	8	13.4	98	35	6	20	80	GN 611.5-M16	83
GN 611-M16-40-LS	M 16	40	8	13.4	148	35	6	21	113	GN 611.5-M16	123
GN 611-M16-50-LS	M 16	50	8	13.4	148	35	6	13	75	GN 611.5-M16	127

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GN 615.7

Spring plungers
with limit switch

SPECIFICATION

Types

- Type **S**: normally open
- Type **O**: normally closed

Screw
Steel, nickel plated

Ball
Steel, hardened

Hexagonal nuts
Steel, nickel plated

Limit switch

- Voltage: 5 ... 24 V DC
- Switching load recom.: 5-10 mA
- Switching load max.: 20 mA DC
- Life expectancy: 3 million operations
- Temperature range: -10 °C ... +80 °C

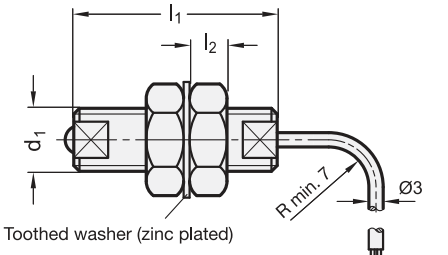
Supply cable PVC:

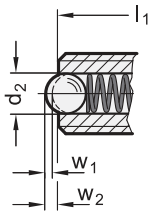
- Ø 3; 2 phase, ≈ 2 meters long
- max. tensile load 20 N
- grey, for Type S (normally open)
- black, for Type O (normally closed)

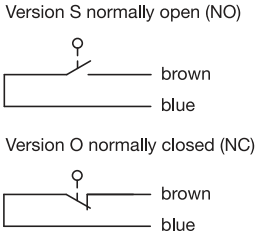
Protection class IP 40

INFORMATION

Spring plungers GN 615.7 are used for end stops as wells as contacts Simultaneously an electrical control signal can be released from the built-in limit switch.
- IP Protection classes (see page A23)







GN 615.7

Description	d1	d2	l1	s	l2	A/F	w1 ±0.1 Switching stroke	w2 ±0.1 Compression	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 615.7-M6-O	M 6	3	33	5	3.5	10	0.3	0.8	6	13	40
GN 615.7-M8-O	M 8	4	36	7	5	13	0.5	1	8	16	53
GN 615.7-M10-O	M 10	5	40	8	6	17	0.7	1.2	10	20	60
GN 615.7-M6-S	M 6	3	33	5	3.5	10	0.3	0.8	6	13	40
GN 615.7-M8-S	M 8	4	36	7	5	13	0.5	1	8	16	53
GN 615.7-M10-S	M 10	5	40	8	6	17	0.7	1.2	10	20	60

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GN 513

Spring elements

SPECIFICATION

Types

- Type **I**: Female thread
- Type **K**: Pointed nose
- Type **H**: Semi-spherical, Steel
- Type **P**: Prism (120°)

Identification No.

- Version **1**: standard spring load
- Version **2**: high spring load

Steel

Threaded sleeve
zinc plated, blue passivated

Spring bolt
case hardened, blackened

Identification

standard spring load:
Crescent shaped ring
phosphated (anthracite)

high spring load:
Crescent shaped ring
zinc plated, blue passivated

INFORMATION

Spring elements GN 513 are universal pressure elements used as detents, positioners or for clamping with spring pressure. The spring loaded nose can be used for a push-on or push-off operation. In addition the spring loaded nose cannot rotate.
At the pulling end the female thread will accept a pulling rod or an operating knob.
Type I with a female thread at the pushing end can be fitted with a special plunger nose.
The spring element can be screwed into a thread at the hexagon on the pulling end or the spanner flats at the pushing end of the plunger.

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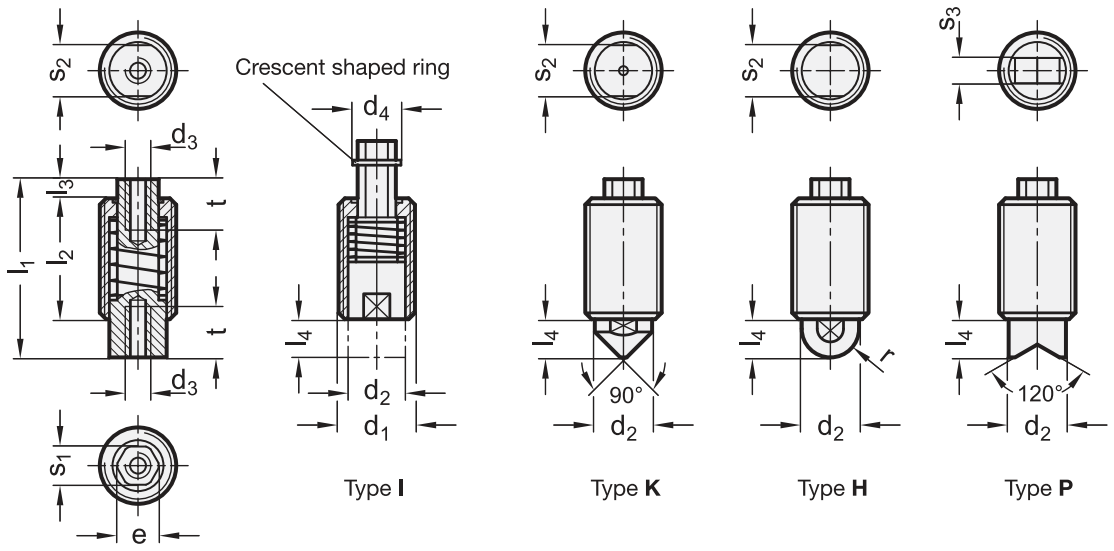

GN 513

Description	d1	d2	d3	d4	e	l1	l2	l3	l4	r	s1	s2	s3	t min.	Spring load in N ≈ initial	Spring load in N ≈ end	⚖
GN 513-M12x1,5-I-1	M 12 x 1.5	9	M 4	7.6	6.5	28	19	3	6	-	6	8	-	8	16	35	10
GN 513-M16x1,5-I-1	M 16 x 1.5	12	M 5	8.8	7.8	38	27	3	8	-	7	10	-	10	25	71	31
GN 513-M20x1,5-I-1	M 20 x 1.5	14.5	M 6	11.4	10	47	33	4	10	-	9	12	-	12	40	130	65
GN 513-M12x1,5-P-1	M 12 x 1.5	9	M 4	7.6	6.5	28	19	3	6	-	6	-	4	8	16	35	12
GN 513-M16x1,5-P-1	M 16 x 1.5	12	M 5	8.8	7.8	38	27	3	8	-	7	-	6	10	25	71	30
GN 513-M20x1,5-P-1	M 20 x 1.5	14.5	M 6	11.4	10	47	33	4	10	-	9	-	8	12	40	130	64
GN 513-M12x1,5-K-1	M 12 x 1.5	9	M 4	7.6	6.5	28	19	3	6	-	6	8	-	8	16	35	13
GN 513-M16x1,5-K-1	M 16 x 1.5	12	M 5	8.8	7.8	38	27	3	8	-	7	10	-	10	25	71	30
GN 513-M20x1,5-K-1	M 20 x 1,5	14.5	M 6	11.4	10	47	33	4	10	-	9	12	-	12	40	130	65
GN 513-M12x1,5-H-1	M 12 x 1.5	9	M 4	7.6	6.5	28	19	3	6	4.5	6	8	-	-	16	35	15
GN 513-M16x1,5-H-1	M 16 x 1.5	12	M 5	8.8	7.8	38	27	3	8	6	7	10	-	-	25	71	30
GN 513-M20x1,5-H-1	M 20 x 1.5	14.5	M 6	11.4	10	47	33	4	10	7.2	9	12	-	-	40	130	66
GN 513-M12x1,5-I-2	M 12 x 1.5	9	M 4	7.6	6.5	28	19	3	6	-	6	8	-	8	18	56	12
GN 513-M16x1,5-I-2	M 16 x 1.5	12	M 5	8.8	7.8	38	27	3	8	-	7	10	-	10	45	125	31
GN 513-M20x1,5-I-2	M 20 x 1.5	14.5	M 6	11.4	10	47	33	4	10	-	9	12	-	12	66	200	66
GN 513-M12x1,5-P-2	M 12 x 1.5	9	M 4	7.6	6.5	28	19	3	6	-	6	-	4	8	18	56	12
GN 513-M16x1,5-P-2	M 16 x 1.5	12	M 5	8.8	7.8	38	27	3	8	-	7	-	6	10	45	125	30
GN 513-M20x1,5-P-2	M 20 x 1.5	14.5	M 6	11.4	10	47	33	4	10	-	9	-	8	12	66	200	65
GN 513-M12x1,5-K-2	M 12 x 1.5	9	M 4	7.6	6.5	28	19	3	6	-	6	8	-	8	18	56	12
GN 513-M16x1,5-K-2	M 16 x 1.5	12	M 5	8.8	7.8	38	27	3	8	-	7	10	-	10	45	125	30
GN 513-M20x1,5-K-2	M 20 x 1,5	14.5	M 6	11.4	10	47	33	4	10	-	9	12	-	12	66	200	64
GN 513-M12x1,5-H-2	M 12 x 1.5	9	M 4	7.6	6.5	28	19	3	6	4.5	6	8	-	-	18	56	10
GN 513-M16x1,5-H-2	M 16 x 1.5	12	M 5	8.8	7.8	38	27	3	8	6	7	10	-	-	45	125	32
GN 513-M20x1,5-H-2	M 20 x 1.5	14.5	M 6	11.4	10	47	33	4	10	7.2	9	12	-	-	66	200	67

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Side thrust pins

Press on type

SPECIFICATION

Types

- Type **SA**: thrust pin Steel, without seal
- Type **KA**: thrust pin Plastic, without seal
- Type **SB**: thrust pin Steel, with seal
- Type **KB**: thrust pin Plastic, with seal

Housing Aluminium
blank

Type SA / SB
thrust pin Steel, hardened
zinc plated, blue passivated

Type KA / KB
thrust pin Plastic Polyacetal (POM)

Thrust spring coding
Force, low thrust: grey
medium thrust: black
high thrust: silver

Seal rubber
NBR (Perbunan)

INFORMATION

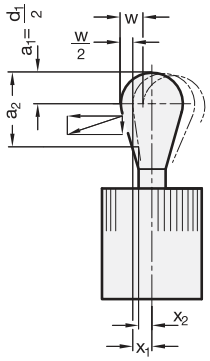
Spring loaded side thrust pins GN 715 are versatile and practical elements for holding, positioning and clamping of workpieces.
They eliminate costly alternatives, are space saving and easy to install. The knurled body requires only a hole tolerance of H8.
For easy mounting a suitable tool GN 715.1-... is available (see table).

TECHNICAL INFORMATION

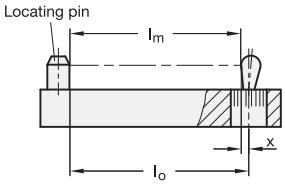
- ISO-Fundamental Tolerances (see page A21)
- Plastic characteristics (see page A2)
- Elastomer characteristics (see page A32)

TECHNICAL AND ASSEMBLY INSTRUCTIONS

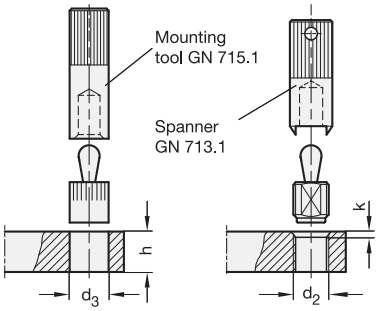
w = Movement of pin
F = Side thrust in N
initial thrust = F_0
end thrust = 1.1 x F_0
a_2-a_1 = Clamping range for workpiece
x = distance centre line – thrust point at w_2
x_1 for highest thrust point (a_1)
x_2 for lowest thrust point (a_2)
l_0 = Distance end stop – bore of thrust bush
$l_0 = l_m + x$
l_m = Average length of workpiece $l_{max.} + l_{min.}/2$
For contact points (workpiece height) between a_1 and a_2 a value for x has to be used lying between x_1 and x_2 (interpolation).



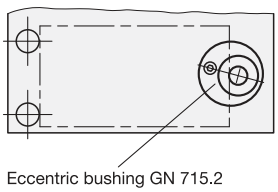
By observing the above values the full movement of the side thrust pin will be available to cover the tolerance of the workpiece.



For inserting the side thrust pins the use of a mounting tool GN 715.1 or spanner GN 713.1 is recommended.



Eccentric bushes GN 715.2 (see page 867) are tooling accessory for GN 714 (see page 862) / GN 715. They enable a precise optimum setting of side thrust pins. This allows an adjustment to l_0 to accommodate for instance a larger tolerance range on a workpiece.



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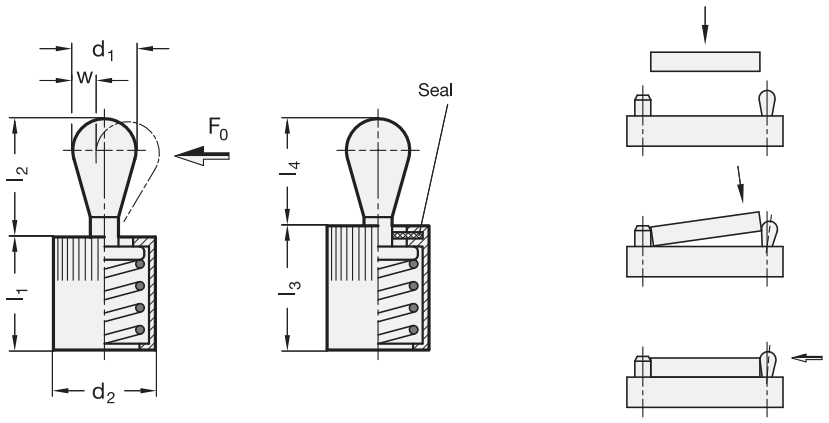
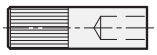
GN 715

Side thrust pins





GN 715

Description	d1	Side thrust F0 in N	a1	a2	d2	d3 H8	h min.	l1 -1	l2	l3 -1	l4	w	x1	x2	Code no. for mounting tool	⚖
GN 715-3-10-KA	3	10	1.5	3.5	6	6	7	7	4	7	4	0.9	1	0.75	GN 715.1-3	1
GN 715-5-20-KA	5	20	2.5	5.7	10	10	12	11	6.7	11.5	6	1.6	1.7	1.3	GN 715.1-5.6	1
GN 715-6-40-KA	6	40	3	7.7	10	10	12	11	10.7	11.5	10	1.8	1.9	1.4	GN 715.1-5.6	1
GN 715-8-50-KA	8	50	4	8.9	12	12	14	13	13.9	14	13	2.6	2.7	2.1	GN 715.1-8	3
GN 715-10-100-KA	10	100	5	10.7	16	16	18	17	16.7	18	16	3.2	3.4	2.7	GN 715.1-10	6
GN 715-3-10-KB	3	10	1.5	3.5	6	6	7	7	4	7	4	0.9	1	0.75	GN 715.1-3	1
GN 715-5-20-KB	5	20	2.5	5.7	10	10	12	11	6.7	11.5	6	1.6	1.7	1.3	GN 715.1-5.6	1
GN 715-6-40-KB	6	40	3	7.7	10	10	12	11	10.7	11.5	10	1.8	1.9	1.4	GN 715.1-5.6	2
GN 715-8-50-KB	8	50	4	8.9	12	12	14	13	13.9	14	13	2.6	2.7	2.1	GN 715.1-8	3
GN 715-10-100-KB	10	100	5	10.7	16	16	18	17	16.7	18	16	3.2	3.4	2.7	GN 715.1-10	7
GN 715-3-10-SA	3	10	1.5	3.5	6	6	7	7	4	7	4	0.9	1	0.75	GN 715.1-3	1
GN 715-3-20-SA	3	20	1.5	3.5	6	6	12	11	6.7	11.5	6	1.6	1.7	1.3	GN 715.1-3	1
GN 715-3-40-SA	3	40	1.5	3.5	6	6	12	11	10.7	11.5	10	1.8	1.9	1.4	GN 715.1-3	1
GN 715-5-20-SA	5	20	2.5	5.7	10	10	14	13	13.9	14	13	2.6	2.7	2.1	GN 715.1-5.6	3
GN 715-5-50-SA	5	50	2.5	5.7	10	10	18	17	16.7	18	16	3.2	3.4	2.7	GN 715.1-5.6	3
GN 715-5-100-SA	5	100	2.5	5.7	10	10	7	7	4	7	4	0.9	1	0.75	GN 715.1-5.6	3
GN 715-6-40-SA	6	40	3	7.7	10	10	12	11	6.7	11.5	6	1.6	1.7	1.3	GN 715.1-5.6	3
GN 715-6-75-SA	6	75	3	7.7	10	10	12	11	10.7	11.5	10	1.8	1.9	1.4	GN 715.1-5.6	4
GN 715-6-150-SA	6	150	3	7.7	10	10	14	13	13.9	14	13	2.6	2.7	2.1	GN 715.1-5.6	4
GN 715-8-50-SA	8	50	4	8.9	12	12	18	17	16.7	18	16	3.2	3.4	2.7	GN 715.1-8	7
GN 715-8-100-SA	8	100	4	8.9	12	12	7	7	4	7	4	0.9	1	0.75	GN 715.1-8	7
GN 715-8-200-SA	8	200	4	8.9	12	12	12	11	6.7	11.5	6	1.6	1.7	1.3	GN 715.1-8	7
GN 715-10-100-SA	10	100	5	10.7	16	16	12	11	10.7	11.5	10	1.8	1.9	1.4	GN 715.1-10	15
GN 715-10-200-SA	10	200	5	10.7	16	16	14	13	13.9	14	13	2.6	2.7	2.1	GN 715.1-10	15
GN 715-10-300-SA	10	300	5	10.7	16	16	18	17	16.7	18	16	3.2	3.4	2.7	GN 715.1-10	16
GN 715-3-10-SB	3	10	1.5	3.5	6	6	7	7	4	7	4	0.9	1	0.75	GN 715.1-3	1
GN 715-3-20-SB	3	20	1.5	3.5	6	6	12	11	6.7	11.5	6	1.6	1.7	1.3	GN 715.1-3	1
GN 715-3-40-SB	3	40	1.5	3.5	6	6	12	11	10.7	11.5	10	1.8	1.9	1.4	GN 715.1-3	1
GN 715-5-20-SB	5	20	2.5	5.7	10	10	14	13	13.9	14	13	2.6	2.7	2.1	GN 715.1-5.6	3
GN 715-5-50-SB	5	50	2.5	5.7	10	10	18	17	16.7	18	16	3.2	3.4	2.7	GN 715.1-5.6	3
GN 715-5-100-SB	5	100	2.5	5.7	10	10	7	7	4	7	4	0.9	1	0.75	GN 715.1-5.6	3
GN 715-6-40-SB	6	40	3	7.7	10	10	12	11	6.7	11.5	6	1.6	1.7	1.3	GN 715.1-5.6	3
GN 715-6-75-SB	6	75	3	7.7	10	10	12	11	10.7	11.5	10	1.8	1.9	1.4	GN 715.1-5.6	4
GN 715-6-150-SB	6	150	3	7.7	10	10	14	13	13.9	14	13	2.6	2.7	2.1	GN 715.1-5.6	4
GN 715-8-50-SB	8	50	4	8.9	12	12	18	17	16.7	18	16	3.2	3.4	2.7	GN 715.1-8	7
GN 715-8-100-SB	8	100	4	8.9	12	12	7	7	4	7	4	0.9	1	0.75	GN 715.1-8	7
GN 715-8-200-SB	8	200	4	8.9	12	12	12	11	6.7	11.5	6	1.6	1.7	1.3	GN 715.1-8	7
GN 715-10-100-SB	10	100	5	10.7	16	16	12	11	10.7	11.5	10	1.8	1.9	1.4	GN 715.1-10	15
GN 715-10-200-SB	10	200	5	10.7	16	16	14	13	13.9	14	13	2.6	2.7	2.1	GN 715.1-10	14
GN 715-10-300-SB	10	300	5	10.7	16	16	18	17	16.7	18	16	3.2	3.4	2.7	GN 715.1-10	16

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Side thrust pins

without pressure pin, press on type

SPECIFICATION

Housing Aluminium
blank

Thrust plate with female thread
hardened, blackened

Thrust spring coding
Force, low thrust: grey
medium thrust: lack
high thrust: silver

Seal rubber
NBR (Perbunan)

INFORMATION

Side thrust pins GN 714 are the result of further development of GN 715 (see page 860). It is left to the customer to design his own pressure pin which can be screwed into the thrust plate.
This design extends the field of applications for side thrust pins offering identical advantages i.e. they eliminate costly alternatives, are space saving and are simple to install. The knurled body requires bore to H8 tolerance only.
For easy mounting a suitable tool GN 715.1 is available (see table).

ACCESSORY

- Mounting tools GN 715.1 (Code no. see table)

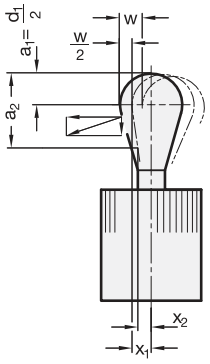
TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Elastomer characteristics (see page A32)

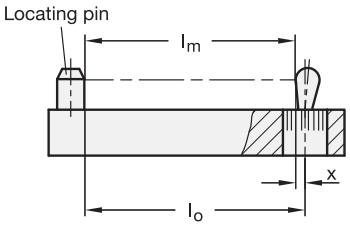
TECHNICAL AND ASSEMBLY INSTRUCTIONS

w = Movement of pin
F = Side thrust in N
initial thrust = F_0
end thrust = 1.1 x F_0
a_2-a_1 = Clamping range for workpiece
x = Distance centre line – thrust point at w_2
x_1 for highest thrust point (a_1)
x_2 for lowest thrust point (a_2)
l_0 = Distance end stop – bore of thrust bushing
$l_0 = l_m + x$
l_m = Average length of workpiece $l_{max.} + l_{min.}/2$
For contact points (workpiece height) between a_1 and a_2 a value for x has to be used lying between x_1 and x_2 (interpolation).

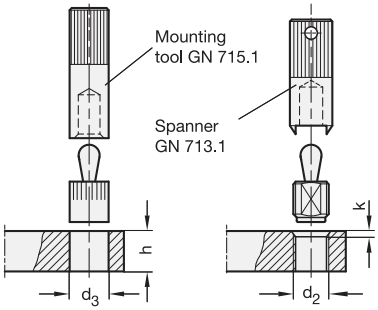
By observing the above values the full movement of the side thrust pin will be available to cover the tolerance of the workpiece.



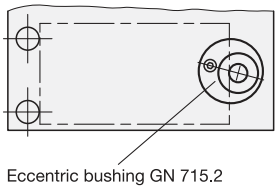
By observing the above values the full movement of the side thrust pin will be available to cover the tolerance of the workpiece.



For inserting the side thrust pins the use of a mounting tool GN 715.1 or spanner GN 713.1 is recommended.



Eccentric bushes GN 715.2 (see page 867) are tooling accessory for GN 714 (see page 862) / GN 715 (see page 860). They enable a precise optimum setting of side thrust pins. This allows an adjustment to l_0 to accommodate for instance a larger tolerance range on a workpiece.



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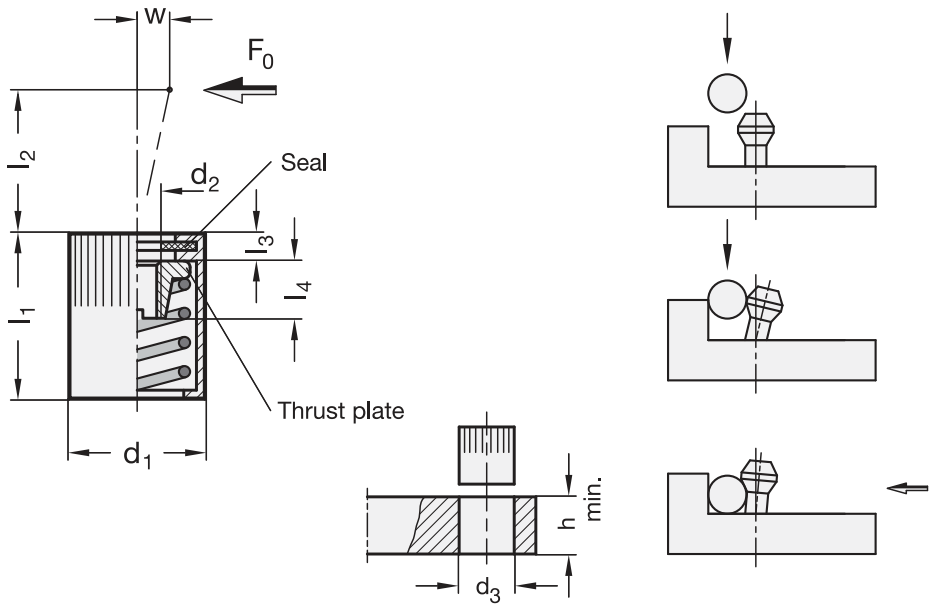
GN 714

Side thrust pins



GN 714

Description	d1	Side thrust F0 in N ≈ at l2	d2	d3 H8	h min.	l1 -1	l2	l3	l4	w	Code no.	⚖
GN 714-10-20	10	20	M 4	10	12	12	4	1.5	4.5	1.6	GN 715.1-5.6	2
GN 714-10-40	10	40	M 4	10	12	12	7.5	1.5	4.5	1.6	GN 715.1-5.6	2
GN 714-10-50	10	50	M 4	10	12	12	4	1.5	4.5	1.6	GN 715.1-5.6	2
GN 714-10-75	10	75	M 4	10	12	12	7.5	1.5	4.5	1.6	GN 715.1-5.6	2
GN 714-10-100	10	100	M 4	10	12	12	4	1.5	4.5	1.6	GN 715.1-5.6	2
GN 714-10-150	10	150	M 4	10	12	12	7.5	1.5	4.5	1.6	GN 715.1-5.6	2
GN 714-16-100	16	100	M 6	16	18	18	11.5	2	7.5	3.2	GN 715.1-10	9
GN 714-16-200	16	200	M 6	16	18	18	11.5	2	7.5	3.2	GN 715.1-10	9
GN 714-16-300	16	300	M 6	16	18	18	11.5	2	7.5	3.2	GN 715.1-10	10

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Side thrust pins

with thread

SPECIFICATION

Types

- Type **SB**: thrust pin Steel, with seal
- Type **SA***: thrust pin Steel, without seal

* not available from stock, requires a minimum order quantity

Housing Steel
zinc plated, blue passivated

Thrust pin Steel, hardened
zinc plated, blue passivated

Thrust spring coding
Force low thrust: grey
medium thrust: black
high thrust: silver

Seal rubber
NBR (Perbunan)

INFORMATION

Spring loaded side thrust pins GN 713 are versatile and practical elements for holding, positioning and clamping workpieces.
They eliminate costly alternatives, are space saving and simple to install. The protruding height of the thrust pin can be adjusted with the threaded body.
For easy mounting a suitable tool GN 713.1-is available (see table).

ACCESSORY

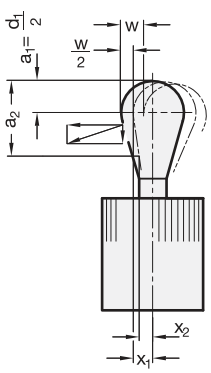
- Mounting tools GN 713.1 (Code no. see table)

TECHNICAL INFORMATION

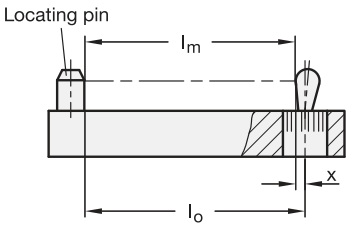
- Elastomer characteristics (see page A32)

TECHNICAL AND ASSEMBLY INSTRUCTIONS

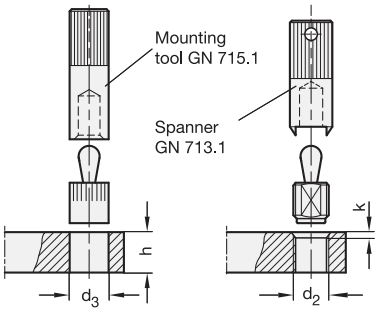
w = Movement of pin
F = Side thrust in N
initial thrust = F_0
end thrust = 1.1 x F_0
a_2-a_1 = Clamping range for workpiece
x = Distance centre line – thrust point at w_2
x_1 for highest thrust point (a_1)
x_2 for lowest thrust point (a_2)
l_0 = Distance end stop – bore of thrust bush
$l_0 = l_m + x$
l_m = Average length of workpiece $l_{max.} + l_{min.}/2$
For contact points (workpiece height) between a_1 and a_2 a value for x has to be used lying between x_1 and x_2 (interpolation).



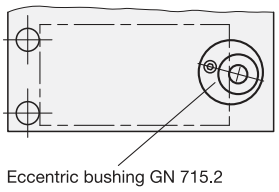
By observing the above values the full movement of the side thrust pin will be available to cover the tolerance of the workpiece.



For inserting the side thrust pins the use of a mounting tool GN 715.1 or spanner GN 713.1 is recommended.



Eccentric bushes GN 715.2 (see page 867) are tooling accessory for GN 714 (see page 862) / GN 715 (see page 860). They enable a precise optimum setting of side thrust pins. This allows an adjustment to l_0 to accommodate for instance a larger tolerance range on a workpiece.



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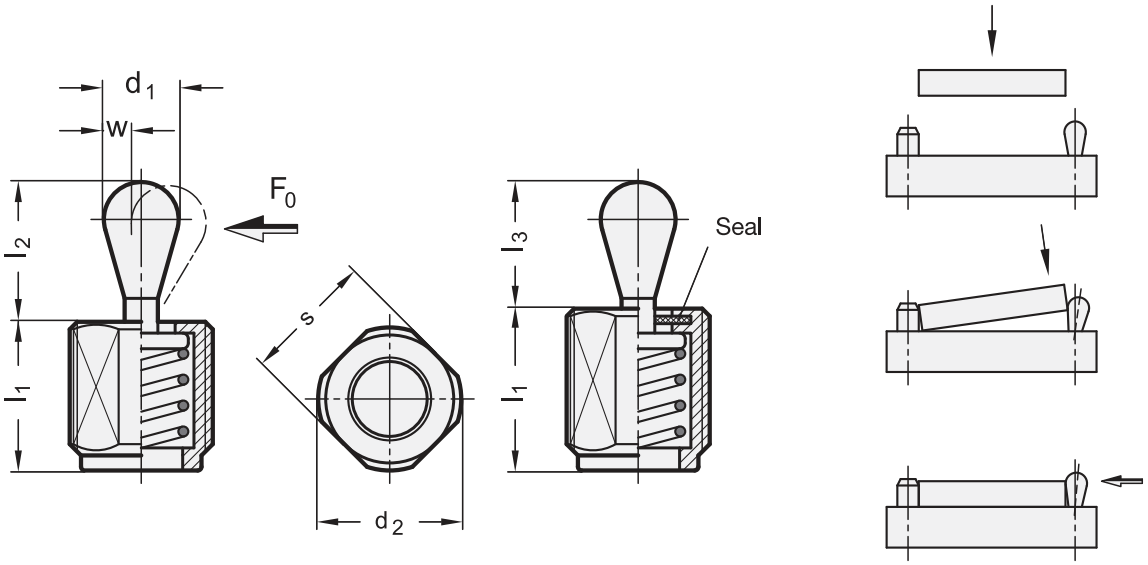
GN 713

Side thrust pins



*Complete with type index of the Side thrust pins (SB or SA)

SB SA

GN 713

Description	d1	Side thrust F0 in N ≈ at l2	l1 -1.5	d2	a1	a2	k	l2	l3	s	w	x1	x2	Code no. for mounting tool	⚖
GN 713-5-20-11,5-*	5	20	11.5	M 12	2.5	5.7	1.5x45°	6.7	6	10	1.6	1.7	1.3	GN 713.1-5.6	4
GN 713-5-20-19-*	5	20	19	M 12	2.5	5.7	1.5x45°	6.7	6	10	1.6	1.7	1.3	GN 713.1-5.6	6
GN 713-5-20-26,5-*	5	20	26.5**	M 12	2.5	5.7	1.5x45°	6.7	6	10	1.6	1.7	1.3	GN 713.1-5.6	8
GN 713-5-50-11,5-*	5	50	11.5	M 12	2.5	5.7	1.5x45°	6.7	6	10	1.6	1.7	1.3	GN 713.1-5.6	4
GN 713-5-50-19-*	5	50	19	M 12	2.5	5.7	1.5x45°	6.7	6	10	1.6	1.7	1.3	GN 713.1-5.6	6
GN 713-5-50-26,5-*	5	50	26.5**	M 12	2.5	5.7	1.5x45°	6.7	6	10	1.6	1.7	1.3	GN 713.1-5.6	8
GN 713-5-100-11,5-*	5	100	11.5	M 12	2.5	5.7	1.5x45°	6.7	6	10	1.6	1.7	1.3	GN 713.1-5.6	4
GN 713-5-100-19-*	5	100	19	M 12	2.5	5.7	1.5x45°	6.7	6	10	1.6	1.7	1.3	GN 713.1-5.6	7
GN 713-5-100-26,5-*	5	100	26.5**	M 12	2.5	5.7	1.5x45°	6.7	6	10	1.6	1.7	1.3	GN 713.1-5.6	9
GN 713-6-40-11,5-*	6	40	11.5	M 12	3	7.7	1.5x45°	10,7	10	10	1.8	1.9	1.4	GN 713.1-5.6	5
GN 713-6-40-19-*	6	40	19	M 12	3	7.7	1.5x45°	10,7	10	10	1.8	1.9	1.4	GN 713.1-5.6	7
GN 713-6-40-26,5-*	6	40	26.5**	M 12	3	7.7	1.5x45°	10,7	10	10	1.8	1.9	1.4	GN 713.1-5.6	8
GN 713-6-75-11,5-*	6	75	11.5	M 12	3	7.7	1.5x45°	10,7	10	10	1.8	1.9	1.4	GN 713.1-5.6	5
GN 713-6-75-19-*	6	75	19	M 12	3	7.7	1.5x45°	10,7	10	10	1.8	1.9	1.4	GN 713.1-5.6	7
GN 713-6-75-26,5-*	6	75	26.5**	M 12	3	7.7	1.5x45°	10,7	10	10	1.8	1.9	1.4	GN 713.1-5.6	9
GN 713-6-150-11,5-*	6	150	11.5	M 12	3	7.7	1.5x45°	10,7	10	10	1.8	1.9	1.4	GN 713.1-5.6	7
GN 713-6-150-19-*	6	150	19	M 12	3	7.7	1.5x45°	10,7	10	10	1.8	1.9	1.4	GN 713.1-5.6	8
GN 713-6-150-26,5-*	6	150	26.5**	M 12	3	7.7	1.5x45°	10,7	10	10	1.8	1.9	1.4	GN 713.1-5.6	10
GN 713-10-100-18-*	10	100	18	M 18 x 1.5	5	10.7	2x45°	16.7	16	16	3.2	3.4	2.7	GN 713.1-10	19
GN 713-10-100-31,5-*	10	100	31.5	M 18 x 1.5	5	10.7	2x45°	16.7	16	16	3.2	3.4	2.7	GN 713.1-10	28
GN 713-10-100-45-*	10	100	45**	M 18 x 1.5	5	10.7	2x45°	16.7	16	16	3.2	3.4	2.7	GN 713.1-10	36
GN 713-10-200-18-*	10	200	18	M 18 x 1.5	5	10.7	2x45°	16.7	16	16	3.2	3.4	2.7	GN 713.1-10	20
GN 713-10-200-31,5-*	10	200	31.5	M 18 x 1.5	5	10.7	2x45°	16.7	16	16	3.2	3.4	2.7	GN 713.1-10	29
GN 713-10-200-45-*	10	200	45**	M 18 x 1.5	5	10.7	2x45°	16.7	16	16	3.2	3.4	2.7	GN 713.1-10	40
GN 713-10-300-18-*	10	300	18	M 18 x 1.5	5	10.7	2x45°	16.7	16	16	3.2	3.4	2.7	GN 713.1-10	21
GN 713-10-300-31,5-*	10	300	31.5	M 18 x 1.5	5	10.7	2x45°	16.7	16	16	3.2	3.4	2.7	GN 713.1-10	30
GN 713-10-300-45-*	10	300	45**	M 18 x 1.5	5	10.7	2x45°	16.7	16	16	3.2	3.4	2.7	GN 713.1-10	38

** not available from stock, requires a minimum order quantity

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Side thrust pins

Press on type

SPECIFICATION

Types

- Type **ENI**: one-sided, ball Stainless Steel
- Type **EKU**: one-sided, ball Plastic
- Type **EST**: one-sided, ball Steel
- Type **BST**: both-sided, ball Steel

Housing Steel, blackened

Sleeve (for Ball)

- Type ENI / EKU: Plastic
- Type EST / BST: Steel, blackened

Ball

- Type ENI: Stainless Steel
- Type EKU: Plastic
- Type EST / BST: Steel

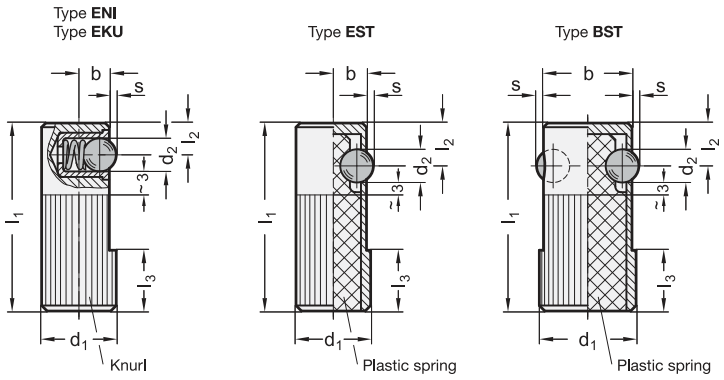
Spring

- Type ENI / EKU: Stainless Steel
- Type EST / BST: elastic plastic

temperature resistant up to 80 °C

INFORMATION

Side thrust pins GN 716 are designed for holding, positioning and locating a workpiece.
They have to pressed into the housing by a least the dimensions l_3, so as to ensure a positive hold.



GN 716

Description	d_1	d_2	b	l_1	l_2	l_3	s	Spring load in N ≈ initial	Spring load in N ≈ end	Locating bore H8	⚖
GN 716-8-ENI	8	3	3.2	25	3.6	6	0.9	2.5	6.5	8	9
GN 716-10-ENI	10	4	4	30	4.2	7	1	4.5	9	10	17
GN 716-12-ENI	12	5	5	35	4.8	9	1.5	6.5	13	12	29
GN 716-14-ENI	14	6.5	5.4	40	5.8	10	1.8	8	18	14	43
GN 716-8-EKU	8	3	3.2	25	3.6	6	0.9	2.5	6.5	8	9
GN 716-10-EKU	10	4	4	30	4.2	7	1	4.5	9	10	17
GN 716-12-EKU	12	5	5	35	4.8	9	1.5	6.5	13	12	29
GN 716-14-EKU	14	6.5	5.4	40	5.8	10	1.8	8	18	14	43
GN 716-10-EST	10	5.5	4.5	30	7	8	1	50	160	10	9
GN 716-12-EST	12	6.5	5.5	35	8	9	1.5	60	270	12	13
GN 716-14-EST	14	8	6.5	40	9	10	2	100	380	14	19
GN 716-16-BST	16	5.5	15	35	7	11	1.5	36	190	16	20
GN 716-18-BST	18	6.5	17	40	8	12	1.8	38	270	18	27
GN 716-22-BST	22	8	21	45	9	15	2.5	40	410	22	43

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GN 715.2

Eccentric bushes

for side thrust pins GN 714 / GN 715

SPECIFICATION

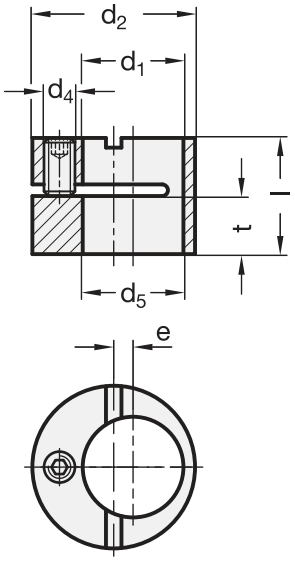
Steel
blackened

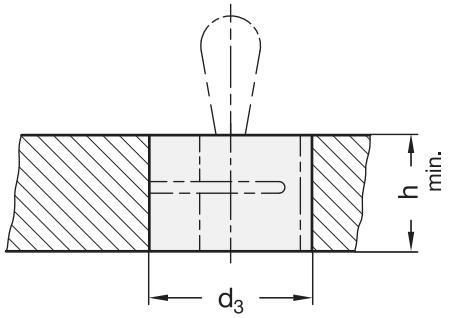
INFORMATION

Eccentric bushes GN 715.2 allows side thrust pins GN 715 (see page 860) / GN 714 (see page 862) to be adjusted. These bushes allow the side thrust pin to be precisely adjused to suit the requirements for clamping of a component.

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)





GN 715.2

Description	d1	d2 h9	d3 H7	d4	d5 +0.1	e	h min.	l -0.2	t	For side thrust pin-Ø	⚖
GN 715.2-6	6	12	12	M 4	6.2	2	10	9.9	4.4	3	5
GN 715.2-10	10	16	16	M 4	10.2	2	12	11.9	5.4	5 | 6	9
GN 715.2-12	12	18	18	M 4	12.2	2	14	13.9	6.6	8	13
GN 715.2-16	16	25	25	M 6	16.2	3	18	17.9	7.9	10	35

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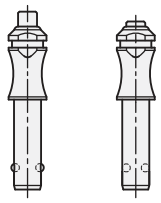
Locking pins with axial lock - Types

GN 113.3
GN 113.4
see page 870
Ø 5 / 6 / 8 / 10 / 12 / 16 / 20
with tightened gripping tray

INOX STAINLESS STEEL

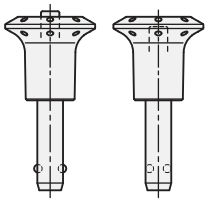


Function:
- The locking element consists of 2 balls, which are "retracted" by press of a button and brought back into the (form-locking) lock function by a spring.

Features:
- GN 113.3: Stainless Steel AISI 303
- GN 113.4: Stainless Steel AISI 630, precipitation-hardened

GN 113.5
GN 113.6
see page 874
Ø 5 / 6 / 8 / 10 / 12 / 16
with plastic knob

INOX STAINLESS STEEL

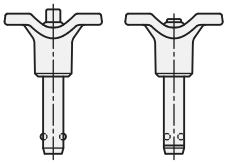


Function:
- The locking element consists of 2 balls, which are "retracted" by press of a button and brought back into the (form-locking) lock function by a spring.

Features:
- GN 113.5: Stainless Steel AISI 303
- GN 113.6: Stainless Steel AISI 630, precipitation-hardened

GN 113.7
GN 113.8
see page 878
Ø 5 / 6 / 8 / 10 / 12 / 16
with plastic-T-handle

INOX STAINLESS STEEL

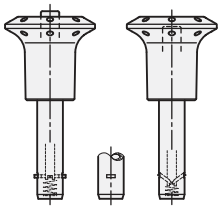


Function:
- The locking element consists of 2 balls, which are "retracted" by press of a button and brought back into the (form-locking) lock function by a spring.

Features:
- GN 113.7: Stainless Steel AISI 303
- GN 113.8: Stainless Steel AISI 630, precipitation-hardened

GN 114.2
GN 114.3
GN 114.6
see page 882
Ø 6 / 8 / 10 / 12 / 16 / 20
with knob

INOX STAINLESS STEEL

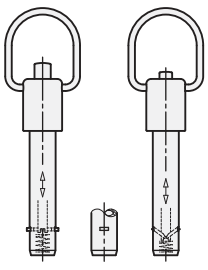


Function:
- The locking element consists of rectangular locking pawls, which are "retracted" by press of a button a brought back into the lock function by a spring (DBP).

Features:
- GN 114.2
  - Pin steel, zinc plated
  - Knob, push-button, slide plastic
- GN 114.3
  - Pin Stainless Steel AISI 303
  - Knob, push-button, slide plastic
- GN 114.6
  - Pin Stainless Steel AISI 303
  - Knob, push-button, slide Stainless Steel

GN 214.2
GN 214.3
GN 214.6
see page 888
Ø 6 / 8 / 10 / 12 / 16 / 20
with lifting ring
(Stainless Steel AISI 301)

INOX STAINLESS STEEL



Function:
- The locking element consists of rectangular locking pawls, which are "retracted" by press of a button a brought back into the lock function by a spring (DBP).

Features:
- GN 214.2
  - Pin steel, zinc plated
  - Push-button, slide plastic
- GN 214.3
  - Pin Stainless Steel AISI 303
  - Push-button, slide plastic
- GN 214.6
  - Pin Stainless Steel AISI 303
  - Push-button, slide Stainless Steel AISI 303

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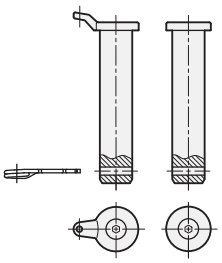
Locking pins with axial lock - Types

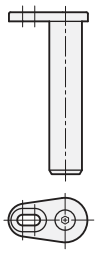
GN 2342
see page 898
Type B / E
Ø 8 / 10 / 12 / 16 / 20



Function:
- With type B and E Stainless Steel-Assembly pins, axial positioning is performed with a collar oer eyelet washer.
- Axial securing is by means of a transverse hole (id. no. 2) in which a spring cotter pin is inserted.
- Assembly pins with eyelet washers (type E), including the matching spring cotter pin, can additionally be secured against loss with a retaining cable.

Features:
- Pin Stainless Steel AISI 304

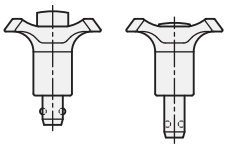
GN 2342
see page 898
Type L
Ø 6 / 8 / 10 / 12



Function:
- With type L Stainless Steel-Assembly pins, axial positioning is by means of a fastening tab.
- Fastened with a countersunk screw, the fastening tab holds the assembly pin in the hole so that is it secured against rotation and does not have any play.

Features:
- Pin Stainless Steel AISI 304

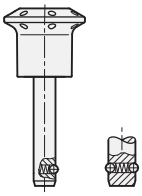
GN 113.1
see page 894
Ø 6 / 8 / 10 / 12



Function:
- The ball lock pins are used for quick fixing of thin-walled parts e.g. sheets.
- By depressing the spring-loaded push button the pin advances and at the same time frees the two balls.

Features:
- Pin Stainless Steel AISI 303
- Handle plastic

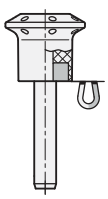
GN 124.2
see page 895
Ø 6 / 8 / 10 / 12



Function:
- The locking element consists of one or two guide balls that are held in the locking position using a thrust spring. The bolts can be quickly and easily inserted and removed from the locating hole.

Features:
- Pin Stainless Steel AISI 303
- Knob plastic

GN 124.1
see page 896
Ø 6 / 8 / 10 / 12



Function:
- Combined with magnetic componets. the magnet fitted at the bottom of the knob holds the locking pins in the axial direction.
- Good surfaces and perpendicular drilling heads help in achieving extremely good axial retaining forces.

Features:
- Pin Stainless Steel AISI 303
- Knob plastic
- Retaining magnet neodymium, iron, boron

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Stainless Steel-Ball lock pins

AISI 303, with hollow for grip

SPECIFICATION

Stainless Steel AISI 303

Balls
Stainless Steel AISI 420C

Spring
Stainless Steel AISI 631

temperature resistant up to 250 °C

INFORMATION

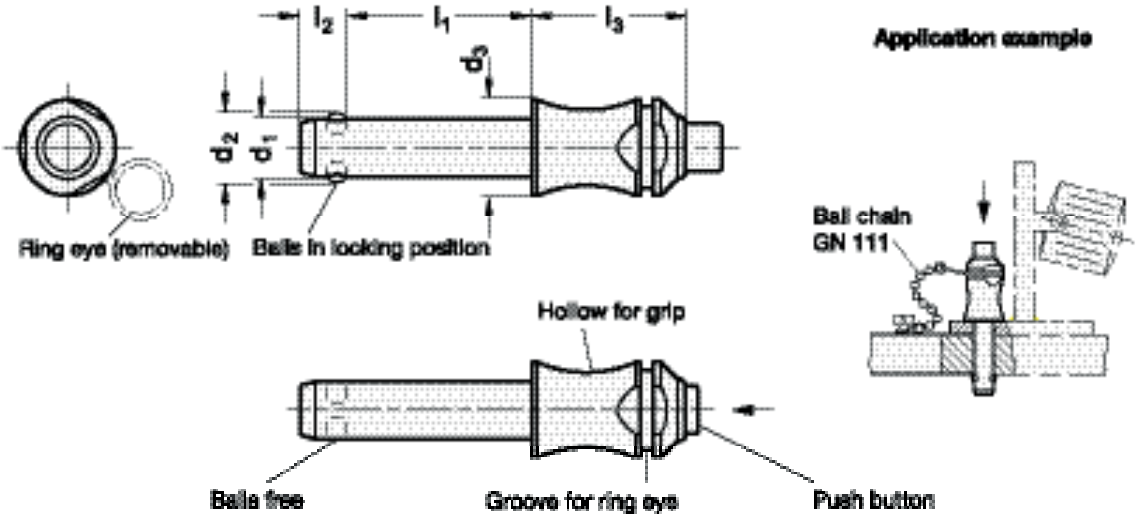
Stainless Steel-Ball lock pins GN 113.3 are used for quick fixing, connecting and locking of various parts and workpieces. A typical application is locating pins which have often to be removed and installed again.
By pressing the spring loaded push button both balls are unlocked and by releasing it the balls are locked again.
Ball lock pins GN 113.3 are renowned for their compactness. The eye ring is enclosed unmounted.
The load values given in the above table at shear stress are theoretically obtained and indicative only. They are non-binding recommended values and rule out any liability. They constitute no general warranty of quality and condition. The user must determine from case to case whether a product is suitable for the intended use.
- Range of lock pins (see page 868)

ACCESSORY

- Ball chains GN 111 (see page 904)
- Stainless Steel-Ball chains GN 111.5 (see page 905)
- Retaining cables GN 111.2 (see page 906)
- Spiral retaining cables GN 111.4 (see page 908)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)



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GN 113.3 | Stainless Steel-Ball lock pins

GN 113.3 **STAINLESS STEEL**

Description	d_1 -0.04/-0.08	l_1 +0.6	d_2	d_3	l_2 ±1	l_3+0.2	Locating bore H11	Load in kN ≈ Double sided shearing resistance according DIN 50141 (Breaking strength)	⚖
GN 113.3-5-10	5	10	5.5	10	6	22	5	14	17
GN 113.3-5-15	5	15	5.5	10	6	22	5	14	17
GN 113.3-5-20	5	20	5.5	10	6	22	5	14	20
GN 113.3-5-25	5	25	5.5	10	6	22	5	14	20
GN 113.3-5-30	5	30	5.5	10	6	22	5	14	20
GN 113.3-6-10	6	10	7	10	7	22	6	21	12
GN 113.3-6-15	6	15	7	10	7	22	6	21	15
GN 113.3-6-20	6	20	7	10	7	22	6	21	15
GN 113.3-6-25	6	25	7	10	7	22	6	21	17
GN 113.3-6-30	6	30	7	10	7	22	6	21	17
GN 113.3-6-35	6	35	7	10	7	22	6	21	20
GN 113.3-6-40	6	40	7	10	7	22	6	21	30
GN 113.3-6-45	6	45	7	10	7	22	6	21	36
GN 113.3-6-50	6	50	7	10	7	22	6	21	41
GN 113.3-8-20	8	20	9.5	14	8.2	27	8	38	35
GN 113.3-8-25	8	25	9.5	14	8.2	27	8	38	37
GN 113.3-8-30	8	30	9.5	14	8.2	27	8	38	38
GN 113.3-8-35	8	35	9.5	14	8.2	27	8	38	40
GN 113.3-8-40	8	40	9.5	14	8.2	27	8	38	42
GN 113.3-8-45	8	45	9.5	14	8.2	27	8	38	44
GN 113.3-8-50	8	50	9.5	14	8.2	27	8	38	46
GN 113.3-10-20	10	20	12	14	9.6	27	10	60	41
GN 113.3-10-25	10	25	12	14	9.6	27	10	60	44
GN 113.3-10-30	10	30	12	14	9.6	27	10	60	45
GN 113.3-10-35	10	35	12	14	9.6	27	10	60	46
GN 113.3-10-40	10	40	12	14	9.6	27	10	60	40
GN 113.3-10-45	10	45	12	14	9.6	27	10	60	50
GN 113.3-10-50	10	50	12	14	9.6	27	10	60	50
GN 113.3-10-60	10	60	12	14	9.6	27	10	60	65
GN 113.3-12-25	12	25	14.5	20	10.6	32	12	87	86
GN 113.3-12-30	12	30	14.5	20	10.6	32	12	87	90
GN 113.3-12-35	12	35	14.5	20	10.6	32	12	87	94
GN 113.3-12-40	12	40	14.5	20	10.6	32	12	87	98
GN 113.3-12-45	12	45	14.5	20	10.6	32	12	87	103
GN 113.3-12-50	12	50	14.5	20	10.6	32	12	87	107
GN 113.3-12-60	12	60	14.5	20	10.6	32	12	87	115
GN 113.3-12-70	12	70	14.5	20	10.6	32	12	87	124
GN 113.3-12-80	12	80	14.5	20	10.6	32	12	87	133
GN 113.3-16-30	16	30	19	20	14	32	16	155	120
GN 113.3-16-35	16	35	19	20	14	32	16	155	128
GN 113.3-16-40	16	40	19	20	14	32	16	155	130
GN 113.3-16-45	16	45	19	20	14	32	16	155	142
GN 113.3-16-50	16	50	19	20	14	32	16	155	150
GN 113.3-16-60	16	60	19	20	14	32	16	155	160
GN 113.3-16-70	16	70	19	20	14	32	16	155	180
GN 113.3-16-80	16	80	19	20	14	32	16	155	200
GN 113.3-20-60	20	60	25	28	20.5	39	20	244	323
GN 113.3-20-80	20	80	25	28	20.5	39	20	244	350
GN 113.3-20-100	20	100	25	28	20.5	39	20	244	420
GN 113.3-20-120	20	120	25	28	20.5	39	20	244	460

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Stainless Steel-Ball lock pins

AISI 630, with hollow for grip

SPECIFICATION

Stainless Steel AISI 630

- precipitation-hardened
- hard coated

Balls
Stainless Steel AISI 420C

Spring
Stainless Steel AISI 631

temperature resistant up to 250 °C

INFORMATION

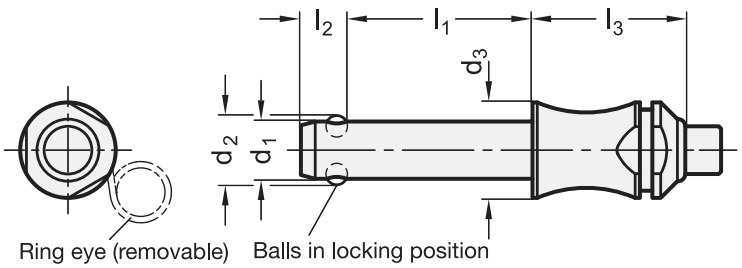
Stainless Steel-Ball lock pins GN 113.4 are used for quick fixing, connecting and locking of various parts and workpieces. A typical application is locating pins which have often to be removed and installed again.
By pressing the spring loaded push button both balls are unlocked and by releasing it the balls are locked again.
Ball lock pins GN 113.4 are renowned for their compactness. The eye ring is enclosed unmounted.
The load values given in the above table at shear stress are theoretically obtained and indicative only. They are non-binding recommended values and rule out any liability. They constitute no general warranty of quality and condition. The user must determine from case to case whether a product is suitable for the intended use.
- Range of locking pins (see page 868)

ACCESSORY

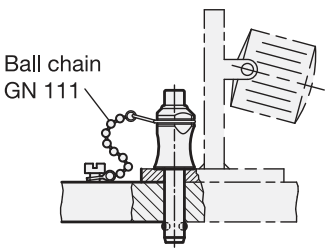
- Ball chains GN 111 (see page 904)
- Stainless Steel-Ball chains GN 111.5 (see page 905)
- Retaining cables GN 111.2 (see page 906)
- Spiral retaining cables GN 111.4 (see page 908)

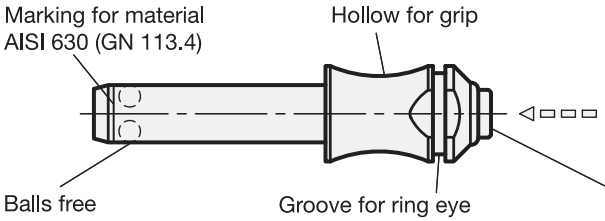
TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)



Application example





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GN 113.4 | Stainless Steel-Ball lock pins

GN 113.4 **STAINLESS STEEL**

Description	d1 -0.04/-0.08	l1 +0.6	d2	d3	l2 ±1	l3+0.2	Locating bore H11	Load in kN ≈ Double sided shearing resistance according DIN 50141 (Breaking strength)	⚖
GN 113.4-5-10	5	10	5.5	10	6	22	5	24	11
GN 113.4-5-15	5	15	5.5	10	6	22	5	24	20
GN 113.4-5-20	5	20	5.5	10	6	22	5	24	20
GN 113.4-5-25	5	25	5.5	10	6	22	5	24	20
GN 113.4-5-30	5	30	5.5	10	6	22	5	24	20
GN 113.4-6-10	6	10	7	10	7	22	6	35	12
GN 113.4-6-15	6	15	7	10	7	22	6	35	12
GN 113.4-6-20	6	20	7	10	7	22	6	35	15
GN 113.4-6-25	6	25	7	10	7	22	6	35	16
GN 113.4-6-30	6	30	7	10	7	22	6	35	16
GN 113.4-6-35	6	35	7	10	7	22	6	35	20
GN 113.4-6-40	6	40	7	10	7	22	6	35	20
GN 113.4-6-45	6	45	7	10	7	22	6	35	35
GN 113.4-6-50	6	50	7	10	7	22	6	35	35
GN 113.4-8-20	8	20	9.5	14	8.2	27	8	63	35
GN 113.4-8-25	8	25	9.5	14	8.2	27	8	63	35
GN 113.4-8-30	8	30	9.5	14	8.2	27	8	63	35
GN 113.4-8-35	8	35	9.5	14	8.2	27	8	63	40
GN 113.4-8-40	8	40	9.5	14	8.2	27	8	63	40
GN 113.4-8-45	8	45	9.5	14	8.2	27	8	63	40
GN 113.4-8-50	8	50	9.5	14	8.2	27	8	63	40
GN 113.4-10-20	10	20	12	14	9.6	27	10	100	40
GN 113.4-10-25	10	25	12	14	9.6	27	10	100	40
GN 113.4-10-30	10	30	12	14	9.6	27	10	100	40
GN 113.4-10-35	10	35	12	14	9.6	27	10	100	50
GN 113.4-10-40	10	40	12	14	9.6	27	10	100	50
GN 113.4-10-45	10	45	12	14	9.6	27	10	100	50
GN 113.4-10-50	10	50	12	14	9.6	27	10	100	60
GN 113.4-10-60	10	60	12	14	9.6	27	10	100	60
GN 113.4-12-25	12	25	14.5	20	10.6	32	12	144	80
GN 113.4-12-30	12	30	14.5	20	10.6	32	12	144	88
GN 113.4-12-35	12	35	14.5	20	10.6	32	12	144	90
GN 113.4-12-40	12	40	14.5	20	10.6	32	12	144	90
GN 113.4-12-45	12	45	14.5	20	10.6	32	12	144	110
GN 113.4-12-50	12	50	14.5	20	10.6	32	12	144	110
GN 113.4-12-60	12	60	14.5	20	10.6	32	12	144	120
GN 113.4-12-70	12	70	14.5	20	10.6	32	12	144	120
GN 113.4-12-80	12	80	14.5	20	10.6	32	12	144	140
GN 113.4-16-30	16	30	19	20	14	32	16	257	120
GN 113.4-16-35	16	35	19	20	14	32	16	257	120
GN 113.4-16-40	16	40	19	20	14	32	16	257	134
GN 113.4-16-45	16	45	19	20	14	32	16	257	140
GN 113.4-16-50	16	50	19	20	14	32	16	257	160
GN 113.4-16-60	16	60	19	20	14	32	16	257	160
GN 113.4-16-70	16	70	19	20	14	32	16	257	179
GN 113.4-16-80	16	80	19	20	14	32	16	257	200
GN 113.4-20-60	20	60	25	28	20.5	39	20	403	319
GN 113.4-20-80	20	80	25	28	20.5	39	20	403	400
GN 113.4-20-100	20	100	25	28	20.5	39	20	403	420
GN 113.4-20-120	20	120	25	28	20.5	39	20	403	440

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Stainless Steel-Ball lock pins

AISI 303, with plastic-knob

SPECIFICATION

Pin Stainless Steel AISI 303

Knob
Plastic (Polyamide PA)

- black-grey / red
- temperature resistant up to 80 °C

Balls
Stainless Steel AISI 420C

Spring
German Material No. 1.4565

INFORMATION

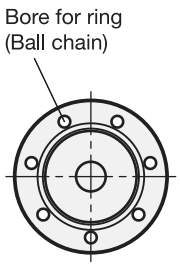
Stainless Steel-Ball lock pins GN 113.5 are used for quick fixing, connecting and locking of various parts and workpieces. A typical application is locating pins which have often to be removed and installed again.
By pressing the spring loaded push button both balls are unlocked and by releasing it, the balls are locked again.
The load values given in the above table at shear stress are theoretically obtained and indicative only. They are non-binding recommended values and rule out any liability. They constitute no general warranty of quality and condition. The user must determine from case to case whether a product is suitable for the intended use.
- Range of lock pins (see page 868)

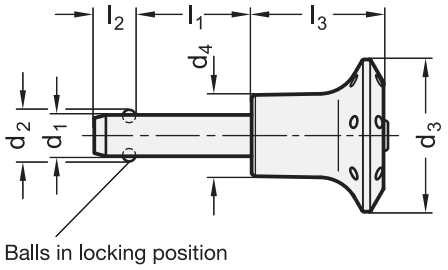
ACCESSORY

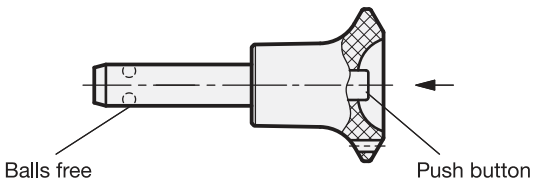
- Ball chains GN 111 (see page 904)
- Stainless Steel-Ball chains GN 111.5 (see page 905)
- Retaining cables GN 111.2 (see page 906)
- Spiral retaining cables GN 111.4 (see page 908)

TECHNICAL INFORMATION

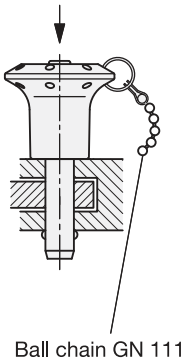
- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)







Application example



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GN 113.5 | Stainless Steel-Ball lock pins

GN 113.5 **STAINLESS STEEL**

Description	d1 -0.04/-0.08	l1 +0.6	d2	d3	d4	l2 ±0.1	l3 -0.2	Locating bore H11	Load in kN ≈ Double sided shearing resistance according DIN 50141 (Breaking strength)	⚖
GN 113.5-5-10	5	10	5.5	30	16	6	26	5	14	17
GN 113.5-5-15	5	15	5.5	30	16	6	26	5	14	18
GN 113.5-5-20	5	20	5.5	30	16	6	26	5	14	19
GN 113.5-5-25	5	25	5.5	30	16	6	26	5	14	20
GN 113.5-5-30	5	30	5.5	30	16	6	26	5	14	20
GN 113.5-6-10	6	10	7	30	16	7.1	26	6	21	19
GN 113.5-6-15	6	15	7	30	16	7.1	26	6	21	19
GN 113.5-6-20	6	20	7	30	16	7.1	26	6	21	20
GN 113.5-6-25	6	25	7	30	16	7.1	26	6	21	21
GN 113.5-6-30	6	30	7	30	16	7.1	26	6	21	23
GN 113.5-6-35	6	35	7	30	16	7.1	26	6	21	25
GN 113.5-6-40	6	40	7	30	16	7.1	26	6	21	25
GN 113.5-6-45	6	45	7	30	16	7.1	26	6	21	26
GN 113.5-6-50	6	50	7	30	16	7.1	26	6	21	27
GN 113.5-8-20	8	20	9.5	35	19	8.2	32.5	8	38	42
GN 113.5-8-25	8	25	9.5	35	19	8.2	32.5	8	38	44
GN 113.5-8-30	8	30	9.5	35	19	8.2	32.5	8	38	46
GN 113.5-8-35	8	35	9.5	35	19	8.2	32.5	8	38	48
GN 113.5-8-40	8	40	9.5	35	19	8.2	32.5	8	38	51
GN 113.5-8-45	8	45	9.5	35	19	8.2	32.5	8	38	52
GN 113.5-8-50	8	50	9.5	35	19	8.2	32.5	8	38	54
GN 113.5-10-20	10	20	12	35	19	9.6	32.5	10	60	49
GN 113.5-10-25	10	25	12	35	19	9.6	32.5	10	60	52
GN 113.5-10-30	10	30	12	35	19	9.6	32.5	10	60	55
GN 113.5-10-35	10	35	12	35	19	9.6	32.5	10	60	58
GN 113.5-10-40	10	40	12	35	19	9.6	32.5	10	60	62
GN 113.5-10-45	10	45	12	35	19	9.6	32.5	10	60	64
GN 113.5-10-50	10	50	12	35	19	9.6	32.5	10	60	68
GN 113.5-10-60	10	60	12	35	19	9.6	32.5	10	60	73
GN 113.5-12-25	12	25	14.5	42	25	10.6	39	12	87	100
GN 113.5-12-30	12	30	14.5	42	25	10.6	39	12	87	104
GN 113.5-12-35	12	35	14.5	42	25	10.6	39	12	87	108
GN 113.5-12-40	12	40	14.5	42	25	10.6	39	12	87	113
GN 113.5-12-45	12	45	14.5	42	25	10.6	39	12	87	117
GN 113.5-12-50	12	50	14.5	42	25	10.6	39	12	87	121
GN 113.5-12-60	12	60	14.5	42	25	10.6	39	12	87	129
GN 113.5-12-70	12	70	14.5	42	25	10.6	39	12	87	138
GN 113.5-12-80	12	80	14.5	42	25	10.6	39	12	87	148
GN 113.5-16-30	16	30	19	42	25	14	39	16	155	136
GN 113.5-16-35	16	35	19	42	25	14	39	16	155	143
GN 113.5-16-40	16	40	19	42	25	14	39	16	155	151
GN 113.5-16-45	16	45	19	42	25	14	39	16	155	158
GN 113.5-16-50	16	50	19	42	25	14	39	16	155	167
GN 113.5-16-60	16	60	19	42	25	14	39	16	155	183
GN 113.5-16-70	16	70	19	42	25	14	39	16	155	198
GN 113.5-16-80	16	80	19	42	25	14	39	16	155	213

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Stainless Steel-Ball lock pins

AISI 630, with plastic-knob

SPECIFICATION

Pin Stainless Steel AISI 630
precipitation-hardened

Knob
Plastic (Polyamide PA)

- black-grey / red
- temperature resistant up to 80 °C

Balls
Stainless Steel AISI 420C

Spring
German Material No. 1.4565

INFORMATION

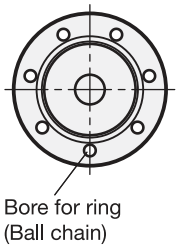
Stainless Steel-Ball lock pins GN 113.6 are used for quick fixing, connecting and locking of various parts and workpieces. A typical application is locating pins which have often to be removed and installed again.
By pressing the spring loaded push button both balls are unlocked and by releasing it, the balls are locked again.
The load values given in the above table at shear stress are theoretically obtained and indicative only. They are non-binding recommended values and rule out any liability. They constitute no general warranty of quality and condition. The user must determine from case to case whether a product is suitable for the intended use.
- Range of lock pins (see page 868)

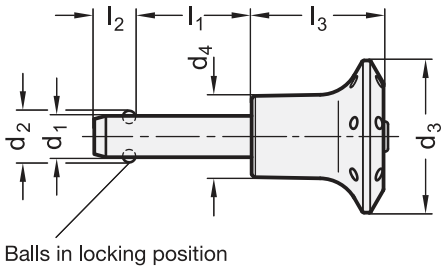
ACCESSORY

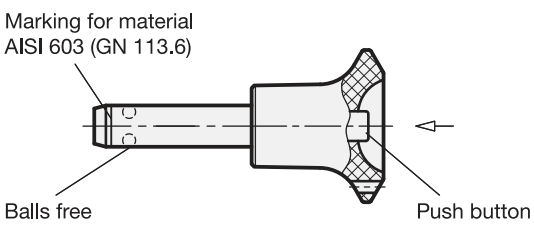
- Ball chains GN 111 (see page 904)
- Stainless Steel-Ball chains GN 111.5 (see page 905)
- Retaining cables GN 111.2 (see page 906)
- Spiral retaining cables GN 111.4 (see page 908)

TECHNICAL INFORMATION

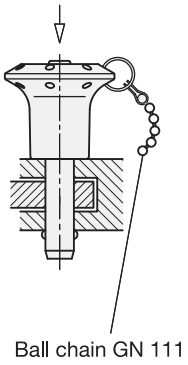
- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)







Application example



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GN 113.6 | Stainless Steel-Ball lock pins

GN 113.6 **STAINLESS STEEL**

Description	d1 -0.04/-0.08	l1 +0.6	d2	d3	d4	l2 ±0.1	l3 -0.2	Locating bore H11	Load in kN ≈ Double sided shearing resistance according DIN 50141 (Breaking strength)	⚖
GN 113.6-5-10	5	10	5.5	30	16	6	26	5	24	17
GN 113.6-5-15	5	15	5.5	30	16	6	26	5	24	18
GN 113.6-5-20	5	20	5.5	30	16	6	26	5	24	19
GN 113.6-5-25	5	25	5.5	30	16	6	26	5	24	20
GN 113.6-5-30	5	30	5.5	30	16	6	26	5	24	20
GN 113.6-6-10	6	10	7	30	16	7.1	26	6	35	19
GN 113.6-6-15	6	15	7	30	16	7.1	26	6	35	20
GN 113.6-6-20	6	20	7	30	16	7.1	26	6	35	21
GN 113.6-6-25	6	25	7	30	16	7.1	26	6	35	21
GN 113.6-6-30	6	30	7	30	16	7.1	26	6	35	22
GN 113.6-6-35	6	35	7	30	16	7.1	26	6	35	23
GN 113.6-6-40	6	40	7	30	16	7.1	26	6	35	24
GN 113.6-6-45	6	45	7	30	16	7.1	26	6	35	26
GN 113.6-6-50	6	50	7	30	16	7.1	26	6	35	26
GN 113.6-8-20	8	20	9.5	35	19	8.2	32.5	8	63	42
GN 113.6-8-25	8	25	9.5	35	19	8.2	32.5	8	63	44
GN 113.6-8-30	8	30	9.5	35	19	8.2	32.5	8	63	46
GN 113.6-8-35	8	35	9.5	35	19	8.2	32.5	8	63	48
GN 113.6-8-40	8	40	9.5	35	19	8.2	32.5	8	63	50
GN 113.6-8-45	8	45	9.5	35	19	8.2	32.5	8	63	52
GN 113.6-8-50	8	50	9.5	35	19	8.2	32.5	8	63	54
GN 113.6-10-20	10	20	12	35	19	9.6	32.5	10	100	49
GN 113.6-10-25	10	25	12	35	19	9.6	32.5	10	100	52
GN 113.6-10-30	10	30	12	35	19	9.6	32.5	10	100	55
GN 113.6-10-35	10	35	12	35	19	9.6	32.5	10	100	58
GN 113.6-10-40	10	40	12	35	19	9.6	32.5	10	100	60
GN 113.6-10-45	10	45	12	35	19	9.6	32.5	10	100	63
GN 113.6-10-50	10	50	12	35	19	9.6	32.5	10	100	67
GN 113.6-10-60	10	60	12	35	19	9.6	32.5	10	100	72
GN 113.6-12-25	12	25	14.5	42	25	10.6	39	12	144	98
GN 113.6-12-30	12	30	14.5	42	25	10.6	39	12	144	103
GN 113.6-12-35	12	35	14.5	42	25	10.6	39	12	144	107
GN 113.6-12-40	12	40	14.5	42	25	10.6	39	12	144	112
GN 113.6-12-45	12	45	14.5	42	25	10.6	39	12	144	115
GN 113.6-12-50	12	50	14.5	42	25	10.6	39	12	144	120
GN 113.6-12-60	12	60	14.5	42	25	10.6	39	12	144	129
GN 113.6-12-70	12	70	14.5	42	25	10.6	39	12	144	137
GN 113.6-12-80	12	80	14.5	42	25	10.6	39	12	144	145
GN 113.6-16-30	16	30	19	42	25	14	39	16	257	135
GN 113.6-16-35	16	35	19	42	25	14	39	16	257	143
GN 113.6-16-40	16	40	19	42	25	14	39	16	257	149
GN 113.6-16-45	16	45	19	42	25	14	39	16	257	157
GN 113.6-16-50	16	50	19	42	25	14	39	16	257	166
GN 113.6-16-60	16	60	19	42	25	14	39	16	257	180
GN 113.6-16-70	16	70	19	42	25	14	39	16	257	196
GN 113.6-16-80	16	80	19	42	25	14	39	16	257	211

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Stainless Steel-Ball lock pins

AISI 303, with plastic T-Handle

SPECIFICATION

Pin Stainless Steel AISI 303

T-Handle
Plastic (Polyamide PA)

- black
- temperature resistant up to 80 °C

Balls
Stainless Steel AISI 420C

Spring
Stainless Steel
German Material No. 14565

INFORMATION

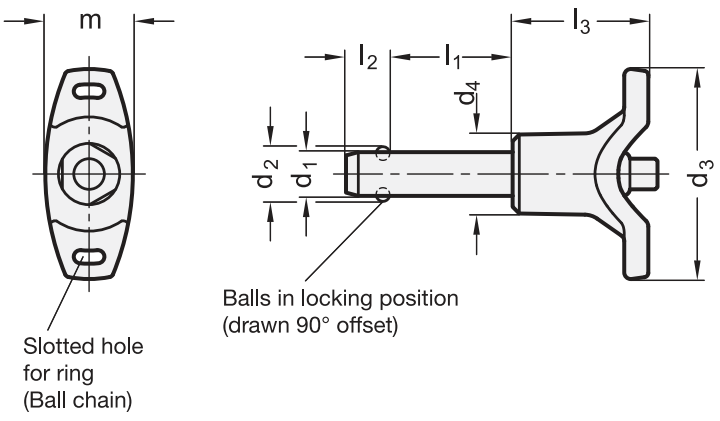
Stainless Steel-Ball lock pins GN 113.7 are used for quick fixing, connecting and locking of various parts and workpieces. A typical application is locating pins which have often to be removed and installed again.
By pressing the spring loaded push button both balls are unlocked and by releasing it, the balls are locked again.
The load values given in the above table at shar stress are theoretically obtained and indicative only. They are non-binding recommended values and rule out of any liability. They consstitute no general warranty of quality and condition. The user must determine from case to case whether a product ist suitable for the intended use.
- Range of lock pins (see page 868)

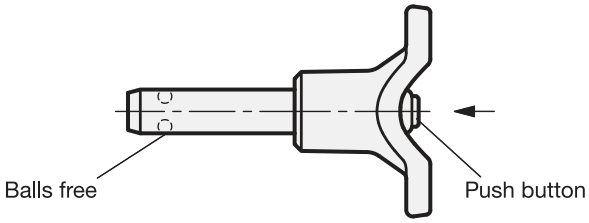
ACCESSORY

- Ball chains GN 111 (see page 904)
- Stainless Steel-Ball chains GN 111.5 (see page 905)
- Retaining cables GN 111.2 (see page 906)
- Spiral retaining cables GN 111.4 (see page 908)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)





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GN 113.7 | Stainless Steel-Ball lock pins

GN 113.7 **STAINLESS STEEL**

Description	d1 -0.04/-0.08	l1 +0.6	d2	d3	d4	l2 ±0.1	l3	m	Locating bore H11	Load in kN ≈ Double sided shearing resistance according DIN 50141 (Breaking strength)	⚖
GN 113.7-5-10	5	10	5.5	40	13.5	6	25	15.5	5	14	15
GN 113.7-5-15	5	15	5.5	40	13.5	6	25	15.5	5	14	16
GN 113.7-5-20	5	20	5.5	40	13.5	6	25	15.5	5	14	15
GN 113.7-5-25	5	25	5.5	40	13.5	6	25	15.5	5	14	17
GN 113.7-5-30	5	30	5.5	40	13.5	6	25	15.5	5	14	18
GN 113.7-6-10	6	10	7	40	13.5	7.1	25	15.5	6	21	16
GN 113.7-6-15	6	15	7	40	13.5	7.1	25	15.5	6	21	17
GN 113.7-6-20	6	20	7	40	13.5	7.1	25	15.5	6	21	18
GN 113.7-6-25	6	25	7	40	13.5	7.1	25	15.5	6	21	19
GN 113.7-6-30	6	30	7	40	13.5	7.1	25	15.5	6	21	20
GN 113.7-6-35	6	35	7	40	13.5	7.1	25	15.5	6	21	21
GN 113.7-6-40	6	40	7	40	13.5	7.1	25	15.5	6	21	22
GN 113.7-6-45	6	45	7	40	13.5	7.1	25	15.5	6	21	23
GN 113.7-6-50	6	50	7	40	13.5	7.1	25	15.5	6	21	24
GN 113.7-8-20	8	20	9.5	48	18	8.2	31	20.5	8	38	40
GN 113.7-8-25	8	25	9.5	48	18	8.2	31	20.5	8	38	42
GN 113.7-8-30	8	30	9.5	48	18	8.2	31	20.5	8	38	44
GN 113.7-8-35	8	35	9.5	48	18	8.2	31	20.5	8	38	46
GN 113.7-8-40	8	40	9.5	48	18	8.2	31	20.5	8	38	46
GN 113.7-8-45	8	45	9.5	48	18	8.2	31	20.5	8	38	50
GN 113.7-8-50	8	50	9.5	48	18	8.2	31	20.5	8	38	51
GN 113.7-10-20	10	20	12	48	18	9.6	31	20.5	10	60	47
GN 113.7-10-25	10	25	12	48	18	9.6	31	20.5	10	60	50
GN 113.7-10-30	10	30	12	48	18	9.6	31	20.5	10	60	53
GN 113.7-10-35	10	35	12	48	18	9.6	31	20.5	10	60	56
GN 113.7-10-40	10	40	12	48	18	9.6	31	20.5	10	60	59
GN 113.7-10-45	10	45	12	48	18	9.6	31	20.5	10	60	62
GN 113.7-10-50	10	50	12	48	18	9.6	31	20.5	10	60	65
GN 113.7-10-60	10	60	12	48	18	9.6	31	20.5	10	60	71
GN 113.7-12-25	12	25	14.5	58	24	10.6	36.5	27.5	12	87	94
GN 113.7-12-30	12	30	14.5	58	24	10.6	36.5	27.5	12	87	100
GN 113.7-12-35	12	35	14.5	58	24	10.6	36.5	27.5	12	87	104
GN 113.7-12-40	12	40	14.5	58	24	10.6	36.5	27.5	12	87	109
GN 113.7-12-45	12	45	14.5	58	24	10.6	36.5	27.5	12	87	113
GN 113.7-12-50	12	50	14.5	58	24	10.6	36.5	27.5	12	87	117
GN 113.7-12-60	12	60	14.5	58	24	10.6	36.5	27.5	12	87	125
GN 113.7-12-70	12	70	14.5	58	24	10.6	36.5	27.5	12	87	134
GN 113.7-12-80	12	80	14.5	58	24	10.6	36.5	27.5	12	87	142
GN 113.7-16-30	16	30	19	58	24	14	36.5	27.5	16	155	132
GN 113.7-16-35	16	35	19	58	24	14	36.5	27.5	16	155	140
GN 113.7-16-40	16	40	19	58	24	14	36.5	27.5	16	155	148
GN 113.7-16-45	16	45	19	58	24	14	36.5	27.5	16	155	155
GN 113.7-16-50	16	50	19	58	24	14	36.5	27.5	16	155	163
GN 113.7-16-60	16	60	19	58	24	14	36.5	27.5	16	155	187
GN 113.7-16-70	16	70	19	58	24	14	36.5	27.5	16	155	194
GN 113.7-16-80	16	80	19	58	24	14	36.5	27.5	16	155	209

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Stainless Steel-Ball lock pins

AISI 630, with plastic T-Handle

SPECIFICATION

Pin Stainless Steel AISI 630

- precipitation-hardened
- hard coated

T-Handle
Plastic (Polyamide PA)

- black
- temperature resistant up to 80 °C

Balls
Stainless Steel AISI 420C

Spring
Stainless Steel
German Material No. 14565

INFORMATION

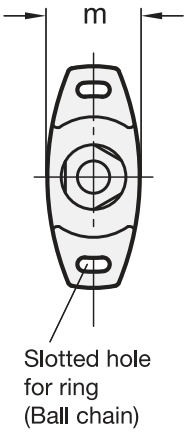
Stainless Steel-Ball lock pins GN 113.8 are used for quick fixing, connecting and locking of various parts and workpieces. A typical application is locating pins which have often to be removed and installed again.
By pressing the spring loaded push button both balls are unlocked and by releasing it, the balls are locked again.
Ball lock pins GN 113.8 have an extreme load capacity, the pin is made of heavy duty, hardened and highly abrasion-resistant stainless steel. The load values given in the above table at shar stress are theoretically obtained and indicative only. They are non-binding recommended values and rule out of any liability. They consstitute no general warranty of quality and condition. The user must determine from case to case whether a product ist suitable for the intended use.
- Range of lock pins (see page 868)

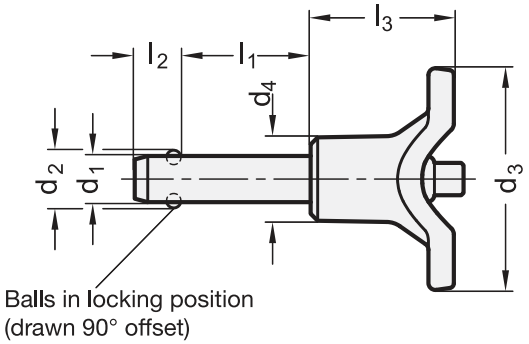
ACCESSORY

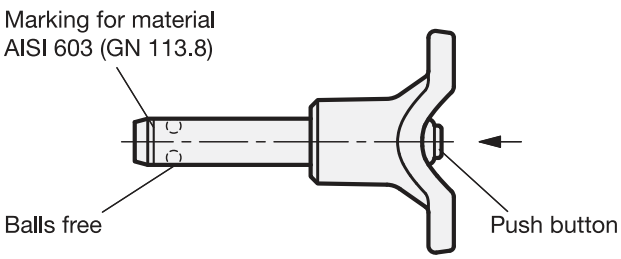
- Ball chains GN 111 (see page 904)
- Stainless Steel-Ball chains GN 111.5 (see page 905)
- Retaining cables GN 111.2 (see page 906)
- Spiral retaining cables GN 111.4 (see page 908)

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- ISO-Fundamental Tolerances (see page A21)







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GN 113.8 | Stainless Steel-Ball lock pins

GN 113.8 **STAINLESS STEEL**

Description	d1 -0.04/-0.08	l1 +0.6	d2	d3	d4	l2 ±0.1	l3	m	Locating bore H11	Load in kN ≈ Double sided shearing resistance according DIN 50141 (Breaking strength)	⚖
GN 113.8-5-10	5	10	5.5	40	13.5	6	25	15.5	5	24	15
GN 113.8-5-15	5	15	5.5	40	13.5	6	25	15.5	5	24	15
GN 113.8-5-20	5	20	5.5	40	13.5	6	25	15.5	5	24	16
GN 113.8-5-25	5	25	5.5	40	13.5	6	25	15.5	5	24	17
GN 113.8-5-30	5	30	5.5	40	13.5	6	25	15.5	5	24	18
GN 113.8-6-10	6	10	7	40	13.5	7.1	25	15.5	6	35	14
GN 113.8-6-15	6	15	7	40	13.5	7.1	25	15.5	6	35	16
GN 113.8-6-20	6	20	7	40	13.5	7.1	25	15.5	6	35	18
GN 113.8-6-25	6	25	7	40	13.5	7.1	25	15.5	6	35	19
GN 113.8-6-30	6	30	7	40	13.5	7.1	25	15.5	6	35	20
GN 113.8-6-35	6	35	7	40	13.5	7.1	25	15.5	6	35	21
GN 113.8-6-40	6	40	7	40	13.5	7.1	25	15.5	6	35	22
GN 113.8-6-45	6	45	7	40	13.5	7.1	25	15.5	6	35	23
GN 113.8-6-50	6	50	7	40	13.5	7.1	25	15.5	6	35	24
GN 113.8-8-20	8	20	9.5	48	18	8.2	31	20.5	8	63	40
GN 113.8-8-25	8	25	9.5	48	18	8.2	31	20.5	8	63	40
GN 113.8-8-30	8	30	9.5	48	18	8.2	31	20.5	8	63	43
GN 113.8-8-35	8	35	9.5	48	18	8.2	31	20.5	8	63	45
GN 113.8-8-40	8	40	9.5	48	18	8.2	31	20.5	8	63	47
GN 113.8-8-45	8	45	9.5	48	18	8.2	31	20.5	8	63	50
GN 113.8-8-50	8	50	9.5	48	18	8.2	31	20.5	8	63	50
GN 113.8-10-20	10	20	12	48	18	9.6	31	20.5	10	100	66
GN 113.8-10-25	10	25	12	48	18	9.6	31	20.5	10	100	66
GN 113.8-10-30	10	30	12	48	18	9.6	31	20.5	10	100	70
GN 113.8-10-35	10	35	12	48	18	9.6	31	20.5	10	100	72
GN 113.8-10-40	10	40	12	48	18	9.6	31	20.5	10	100	72
GN 113.8-10-45	10	45	12	48	18	9.6	31	20.5	10	100	73
GN 113.8-10-50	10	50	12	48	18	9.6	31	20.5	10	100	75
GN 113.8-10-60	10	60	12	48	18	9.6	31	20.5	10	100	75
GN 113.8-12-25	12	25	14.5	58	24	10.6	36.5	27.5	12	144	90
GN 113.8-12-30	12	30	14.5	58	24	10.6	36.5	27.5	12	144	90
GN 113.8-12-35	12	35	14.5	58	24	10.6	36.5	27.5	12	144	92
GN 113.8-12-40	12	40	14.5	58	24	10.6	36.5	27.5	12	144	110
GN 113.8-12-45	12	45	14.5	58	24	10.6	36.5	27.5	12	144	120
GN 113.8-12-50	12	50	14.5	58	24	10.6	36.5	27.5	12	144	125
GN 113.8-12-60	12	60	14.5	58	24	10.6	36.5	27.5	12	144	126
GN 113.8-12-70	12	70	14.5	58	24	10.6	36.5	27.5	12	144	134
GN 113.8-12-80	12	80	14.5	58	24	10.6	36.5	27.5	12	144	140
GN 113.8-16-30	16	30	19	58	24	14	36.5	27.5	16	257	156
GN 113.8-16-35	16	35	19	58	24	14	36.5	27.5	16	257	158
GN 113.8-16-40	16	40	19	58	24	14	36.5	27.5	16	257	160
GN 113.8-16-45	16	45	19	58	24	14	36.5	27.5	16	257	162
GN 113.8-16-50	16	50	19	58	24	14	36.5	27.5	16	257	164
GN 113.8-16-60	16	60	19	58	24	14	36.5	27.5	16	257	166
GN 113.8-16-70	16	70	19	58	24	14	36.5	27.5	16	257	168
GN 113.8-16-80	16	80	19	58	24	14	36.5	27.5	16	257	170

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Locking pins

with axial lock (Pawl)

SPECIFICATION

Pin
Steel
zinc plated, blue passivated

Pawl
Stainless Steel AISI 304 (sheet metal)

Knob
Plastic (Polyamide PA)

- black-grey
- temperature resistant up to 80 °C

Push button / Slide
Plastic

- Push button: red
- temperature resistant up to 80 °C

Spring
Stainless Steel AISI 301

INFORMATION

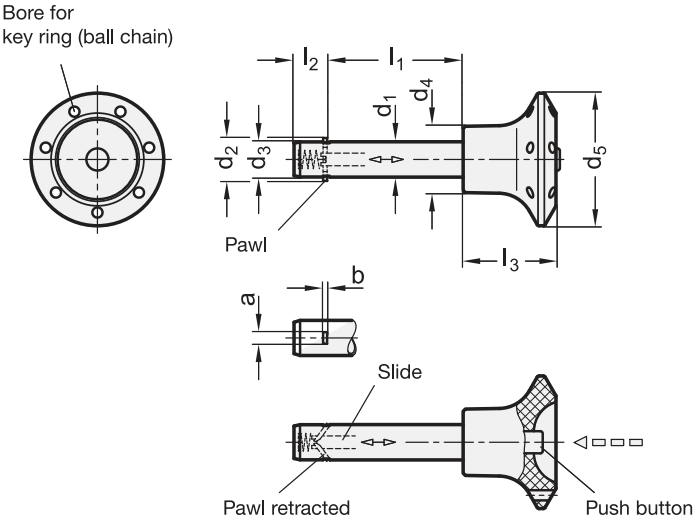
Locking pins with axial lock GN 114.2 are used for quick fixing, connecting and locking of various jig and fixture systems. A typical application is location pins which have to be often removed and replaced again.
The rectangular pawls made of Stainless Steel sheet metal keep the locking pin in an axial position in the bore. It can be retracted by pressing the button, once released it returns the pressure spring into its locking position.
The load values given in the above table at shear stress are theoretically obtained and indicative only. They are non-binding recommended values and rule our any liability. They constitute no general warranty of quality and condition. The user must determine from case to case whether a product is suitable for the intended use.
- Range of lock pins (see page 868)

ACCESSORY

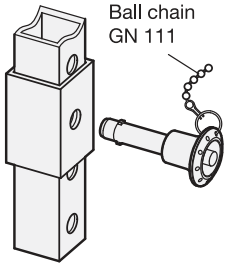
- Ball chains GN 111 (see page 904)
- Stainless Steel-Ball chains GN 111.5 (see page 905)
- Retaining cables GN 111.2 (see page 906)
- Spiral retaining cables GN 111.4 (see page 908)

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)



Application example



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GN 114.2 | Locking pins

GN 114.2

Description	d1 -0.1	l1 +0.4	a	b	d2	d3	d4	d5	l2	l3	Load in kN ≈ (Double sided shear force) see information	⚖
GN 114.2-6-10	6	10	2.3	0.5	7.5 +0.5	5.9	15	30	7	21	14	12
GN 114.2-6-12	6	12	2.3	0.5	7.5 +0.5	5.9	15	30	7	21	14	12
GN 114.2-6-16	6	16	2.3	0.5	7.5 +0.5	5.9	15	30	7	21	14	12
GN 114.2-6-20	6	20	2.3	0.5	7.5 +0.5	5.9	15	30	7	21	14	13
GN 114.2-6-25	6	25	2.3	0.5	7.5 +0.5	5.9	15	30	7	21	14	14
GN 114.2-6-30	6	30	2.3	0.5	7.5 +0.5	5.9	15	30	7	21	14	15
GN 114.2-6-35	6	35	2.3	0.5	7.5 +0.5	5.9	15	30	7	21	14	16
GN 114.2-6-40	6	40	2.3	0.5	7.5 +0.5	5.9	15	30	7	21	14	16
GN 114.2-6-45	6	45	2.3	0.5	7.5 +0.5	5.9	15	30	7	21	14	17
GN 114.2-6-50	6	50	2.3	0.5	7.5 +0.5	5.9	15	30	7	21	14	18
GN 114.2-8-16	8	16	2.8	0.6	10 +0.5	7.9	15	30	8.4	21	28	16
GN 114.2-8-20	8	20	2.8	0.6	10 +0.5	7.9	15	30	8.4	21	28	17
GN 114.2-8-25	8	25	2.8	0.6	10 +0.5	7.9	15	30	8.4	21	28	20
GN 114.2-8-30	8	30	2.8	0.6	10 +0.5	7.9	15	30	8.4	21	28	21
GN 114.2-8-35	8	35	2.8	0.6	10 +0.5	7.9	15	30	8.4	21	28	22
GN 114.2-8-40	8	40	2.8	0.6	10 +0.5	7.9	15	30	8.4	21	28	24
GN 114.2-8-45	8	45	2.8	0.6	10 +0.5	7.9	15	30	8.4	21	28	26
GN 114.2-8-50	8	50	2.8	0.6	10 +0.5	7.9	15	30	8.4	21	28	28
GN 114.2-10-20	10	20	3.3	1	12 +1	9.9	18	34	9.8	26	38	27
GN 114.2-10-25	10	25	3.3	1	12 +1	9.9	18	34	9.8	26	38	30
GN 114.2-10-30	10	30	3.3	1	12 +1	9.9	18	34	9.8	26	38	31
GN 114.2-10-35	10	35	3.3	1	12 +1	9.9	18	34	9.8	26	38	33
GN 114.2-10-40	10	40	3.3	1	12 +1	9.9	18	34	9.8	26	38	35
GN 114.2-10-45	10	45	3.3	1	12 +1	9.9	18	34	9.8	26	38	39
GN 114.2-10-50	10	50	3.3	1	12 +1	9.9	18	34	9.8	26	38	40
GN 114.2-10-60	10	60	3.3	1	12 +1	9.9	18	34	9.8	26	38	46
GN 114.2-12-25	12	25	3.8	1	14 +1	11.9	18	34	11.3	26	61	39
GN 114.2-12-30	12	30	3.8	1	14 +1	11.9	18	34	11.3	26	61	43
GN 114.2-12-35	12	35	3.8	1	14 +1	11.9	18	34	11.3	26	61	45
GN 114.2-12-40	12	40	3.8	1	14 +1	11.9	18	34	11.3	26	61	50
GN 114.2-12-45	12	45	3.8	1	14 +1	11.9	18	34	11.3	26	61	53
GN 114.2-12-50	12	50	3.8	1	14 +1	11.9	18	34	11.3	26	61	60
GN 114.2-12-60	12	60	3.8	1	14 +1	11.9	18	34	11.3	26	61	63
GN 114.2-12-70	12	70	3.8	1	14 +1	11.9	18	34	11.3	26	61	72
GN 114.2-12-80	12	80	3.8	1	14 +1	11.9	18	34	11.3	26	61	77
GN 114.2-16-30	16	30	4.8	1.2	19 +1	15.9	22	40	14.2	32	113	79
GN 114.2-16-35	16	35	4.8	1.2	19 +1	15.9	22	40	14.2	32	113	85
GN 114.2-16-40	16	40	4.8	1.2	19 +1	15.9	22	40	14.2	32	113	92
GN 114.2-16-45	16	45	4.8	1.2	19 +1	15.9	22	40	14.2	32	113	99
GN 114.2-16-50	16	50	4.8	1.2	19 +1	15.9	22	40	14.2	32	113	107
GN 114.2-16-60	16	60	4.8	1.2	19 +1	15.9	22	40	14.2	32	113	119
GN 114.2-16-70	16	70	4.8	1.2	19 +1	15.9	22	40	14.2	32	113	133
GN 114.2-16-80	16	80	4.8	1.2	19 +1	15.9	22	40	14.2	32	113	146
GN 114.2-20-30	20	30	4.8	1.2	23 +1	19.8	25	40	14.8	33	187	118
GN 114.2-20-35	20	35	4.8	1.2	23 +1	19.8	25	40	14.8	33	187	129
GN 114.2-20-40	20	40	4.8	1.2	23 +1	19.8	25	40	14.8	33	187	139
GN 114.2-20-45	20	45	4.8	1.2	23 +1	19.8	25	40	14.8	33	187	151
GN 114.2-20-50	20	50	4.8	1.2	23 +1	19.8	25	40	14.8	33	187	162
GN 114.2-20-60	20	60	4.8	1.2	23 +1	19.8	25	40	14.8	33	187	184
GN 114.2-20-70	20	70	4.8	1.2	23 +1	19.8	25	40	14.8	33	187	207
GN 114.2-20-80	20	80	4.8	1.2	23 +1	19.8	25	40	14.8	33	187	229

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Stainless Steel-Locking pins

Plastic knob, with axial lock (Pawl)

SPECIFICATION

Knob / Push button / Slide

- Plastic
- temperature resistant up to 80 °C
- Knob: black-grey
- Push button: red

Pin
Stainless Steel AISI 303

Pawl
Stainless Steel AISI 304 (sheet metal)

Spring
Stainless Steel AISI 301

INFORMATION

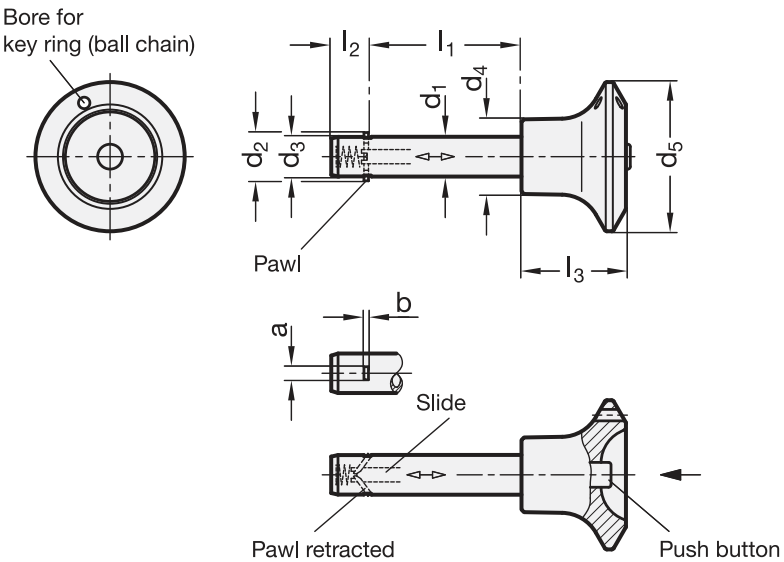
Stainless Steel-Pins with axial lock GN 114.3 are used for quick fixing, connecting and locking of various jig and fixture systems. A typical application is location pins which have to be often removed and replaced again.
The rectangular pawls made of Stainless Steel sheet metal keep the locking pin in an axial position in the bore. It can be retracted by pressing the button, once released it returns the pressure spring into its locking position.
The load values given in the above table at shear stress are theoretically obtained and indicative only. They are non-binding recommended values and rule out any liability. They constitute no general warranty of quality and condition. The user must determine from case to case whether a product is suitable for the intended use.
- Range of lock pins (see page 868)

ACCESSORY

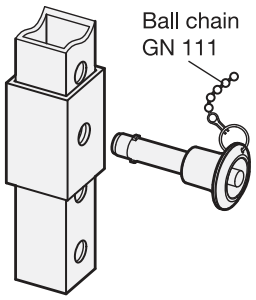
- Ball chains GN 111 (see page 904)
- Stainless Steel-Ball chains GN 111.5 (see page 905)
- Retaining cables GN 111.2 (see page 906)
- Spiral retaining cables GN 111.4 (see page 908)

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)



Application example



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GN 114.3 | Stainless Steel-Locking pins

GN 114.3 **STAINLESS STEEL**

Description	d1 -0.1	l1 +0.4	a	b	d2	d3	d4	d5	l2	l3	Load in kN ≈ (Double sided shear force) see information	⚖
GN 114.3-6-10	6	10	2.3	0.5	7.5 +0.5	5.9	15	30	7	21	17	12
GN 114.3-6-12	6	12	2.3	0.5	7.5 +0.5	5.9	15	30	7	21	17	12
GN 114.3-6-16	6	16	2.3	0.5	7.5 +0.5	5.9	15	30	7	21	17	13
GN 114.3-6-20	6	20	2.3	0.5	7.5 +0.5	5.9	15	30	7	21	17	13
GN 114.3-6-25	6	25	2.3	0.5	7.5 +0.5	5.9	15	30	7	21	17	14
GN 114.3-6-30	6	30	2.3	0.5	7.5 +0.5	5.9	15	30	7	21	17	14
GN 114.3-6-35	6	35	2.3	0.5	7.5 +0.5	5.9	15	30	7	21	17	16
GN 114.3-6-40	6	40	2.3	0.5	7.5 +0.5	5.9	15	30	7	21	17	16
GN 114.3-6-45	6	45	2.3	0.5	7.5 +0.5	5.9	15	30	7	21	17	17
GN 114.3-6-50	6	50	2.3	0.5	7.5 +0.5	5.9	15	30	7	21	17	18
GN 114.3-8-16	8	16	2.8	0.6	10 +0.5	7.9	15	30	8.4	21	35	16
GN 114.3-8-20	8	20	2.8	0.6	10 +0.5	7.9	15	30	8.4	21	35	18
GN 114.3-8-25	8	25	2.8	0.6	10 +0.5	7.9	15	30	8.4	21	35	19
GN 114.3-8-30	8	30	2.8	0.6	10 +0.5	7.9	15	30	8.4	21	35	20
GN 114.3-8-35	8	35	2.8	0.6	10 +0.5	7.9	15	30	8.4	21	35	20
GN 114.3-8-40	8	40	2.8	0.6	10 +0.5	7.9	15	30	8.4	21	35	24
GN 114.3-8-45	8	45	2.8	0.6	10 +0.5	7.9	15	30	8.4	21	35	26
GN 114.3-8-50	8	50	2.8	0.6	10 +0.5	7.9	15	30	8.4	21	35	27
GN 114.3-10-20	10	20	3.3	1	12 +1	9.9	18	34	9.8	26	47	27
GN 114.3-10-25	10	25	3.3	1	12 +1	9.9	18	34	9.8	26	47	29
GN 114.3-10-30	10	30	3.3	1	12 +1	9.9	18	34	9.8	26	47	31
GN 114.3-10-35	10	35	3.3	1	12 +1	9.9	18	34	9.8	26	47	35
GN 114.3-10-40	10	40	3.3	1	12 +1	9.9	18	34	9.8	26	47	36
GN 114.3-10-45	10	45	3.3	1	12 +1	9.9	18	34	9.8	26	47	39
GN 114.3-10-50	10	50	3.3	1	12 +1	9.9	18	34	9.8	26	47	41
GN 114.3-10-60	10	60	3.3	1	12 +1	9.9	18	34	9.8	26	47	45
GN 114.3-12-25	12	25	3.8	1	14 +1	11.9	18	34	11.3	26	75	38
GN 114.3-12-30	12	30	3.8	1	14 +1	11.9	18	34	11.3	26	75	42
GN 114.3-12-35	12	35	3.8	1	14 +1	11.9	18	34	11.3	26	75	45
GN 114.3-12-40	12	40	3.8	1	14 +1	11.9	18	34	11.3	26	75	49
GN 114.3-12-45	12	45	3.8	1	14 +1	11.9	18	34	11.3	26	75	53
GN 114.3-12-50	12	50	3.8	1	14 +1	11.9	18	34	11.3	26	75	57
GN 114.3-12-60	12	60	3.8	1	14 +1	11.9	18	34	11.3	26	75	63
GN 114.3-12-70	12	70	3.8	1	14 +1	11.9	18	34	11.3	26	75	69
GN 114.3-12-80	12	80	3.8	1	14 +1	11.9	18	34	11.3	26	75	80
GN 114.3-16-30	16	30	4.8	1.2	19 +1	15.9	22	40	14.2	32	138	70
GN 114.3-16-35	16	35	4.8	1.2	19 +1	15.9	22	40	14.2	32	138	85
GN 114.3-16-40	16	40	4.8	1.2	19 +1	15.9	22	40	14.2	32	138	92
GN 114.3-16-45	16	45	4.8	1.2	19 +1	15.9	22	40	14.2	32	138	99
GN 114.3-16-50	16	50	4.8	1.2	19 +1	15.9	22	40	14.2	32	138	106
GN 114.3-16-60	16	60	4.8	1.2	19 +1	15.9	22	40	14.2	32	138	119
GN 114.3-16-70	16	70	4.8	1.2	19 +1	15.9	22	40	14.2	32	138	132
GN 114.3-16-80	16	80	4.8	1.2	19 +1	15.9	22	40	14.2	32	138	145
GN 114.3-20-30	20	30	4.8	1.2	23 +1	19.8	25	40	14.8	33	228	117
GN 114.3-20-35	20	35	4.8	1.2	23 +1	19.8	25	40	14.8	33	228	128
GN 114.3-20-40	20	40	4.8	1.2	23 +1	19.8	25	40	14.8	33	228	139
GN 114.3-20-45	20	45	4.8	1.2	23 +1	19.8	25	40	14.8	33	228	151
GN 114.3-20-50	20	50	4.8	1.2	23 +1	19.8	25	40	14.8	33	228	162
GN 114.3-20-60	20	60	4.8	1.2	23 +1	19.8	25	40	14.8	33	228	185
GN 114.3-20-70	20	70	4.8	1.2	23 +1	19.8	25	40	14.8	33	228	206
GN 114.3-20-80	20	80	4.8	1.2	23 +1	19.8	25	40	14.8	33	228	229

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Stainless Steel-Locking pins

Stainless Steel knob, with axial lock (Pawl)

SPECIFICATION

Knob / Push button / Slide
Stainless Steel AISI 303

Pin
Stainless Steel AISI 303

Pawl
Stainless Steel AISI 304 (sheet metal)

Spring
Stainless Steel AISI 301

INFORMATION

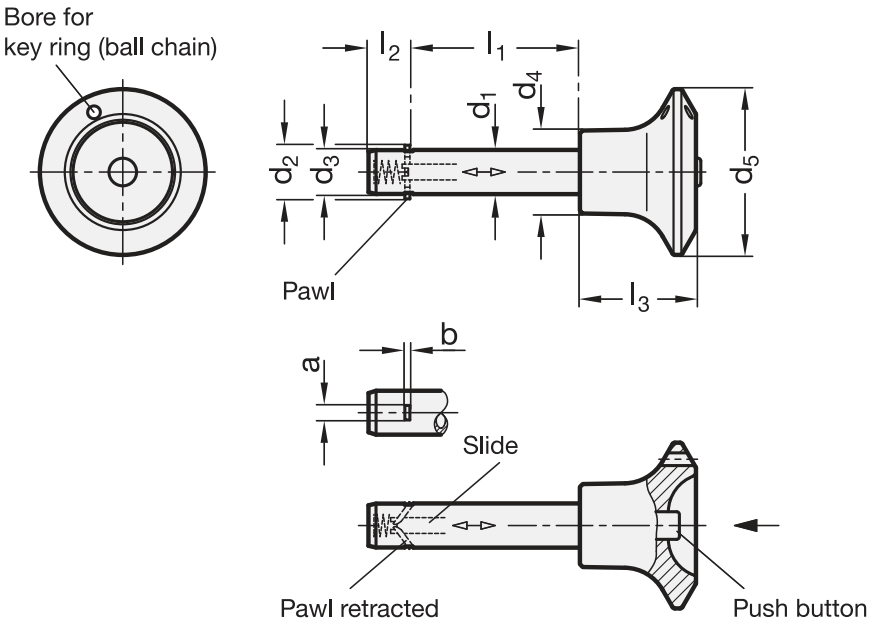
Stainless Steel-Locking pins with axial lock GN 114.6 are used for quick fixing, connecting and locking of various jig and fixture systems. A typical application is location pins which have to be often removed and replaced again.
The rectangular pawls made of Stainless Steel sheet metal keep the locking pin in an axial position in the bore. It can be retracted by pressing the button, once released it returns the pressure spring into its locking position.
The load values given in the above table at shear stress are theoretically obtained and indicative only. They are non-binding recommended values and rule out any liability. They constitute no general warranty of quality and condition. The user must determine from case to case whether a product is suitable for the intended use.
- Range of lock pins (see page 868)

ACCESSORY

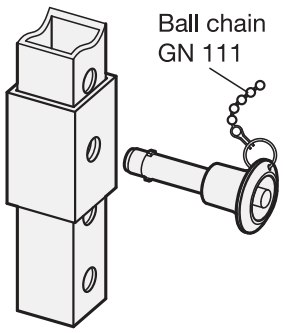
- Ball chains GN 111 (see page 904)
- Stainless Steel-Ball chains GN 111.5 (see page 905)
- Retaining cables GN 111.2 (see page 906)
- Spiral retaining cables GN 111.4 (see page 908)

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)



Application example



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GN 114.6 | Stainless Steel-Locking pins

GN 114.6 **STAINLESS STEEL**

Description	d1 -0.1	l1 +0.4	a	b	d2	d3	d4	d5	l2	l3	Load in kN ≈ (Double sided shear force) see information	⚖
GN 114.6-6-16	6	16	2.3	0.5	7.5 +0.5	5.9	12	25	7	20	17	33
GN 114.6-6-20	6	20	2.3	0.5	7.5 +0.5	5.9	12	25	7	20	17	34
GN 114.6-6-25	6	25	2.3	0.5	7.5 +0.5	5.9	12	25	7	20	17	35
GN 114.6-6-30	6	30	2.3	0.5	7.5 +0.5	5.9	12	25	7	20	17	36
GN 114.6-6-35	6	35	2.3	0.5	7.5 +0.5	5.9	12	25	7	20	17	37
GN 114.6-6-40	6	40	2.3	0.5	7.5 +0.5	5.9	12	25	7	20	17	38
GN 114.6-6-45	6	45	2.3	0.5	7.5 +0.5	5.9	12	25	7	20	17	40
GN 114.6-6-50	6	50	2.3	0.5	7.5 +0.5	5.9	12	25	7	20	17	40
GN 114.6-8-16	8	16	2.8	0.6	10 +0.5	7.9	15	30	8.4	21	35	53
GN 114.6-8-20	8	20	2.8	0.6	10 +0.5	7.9	15	30	8.4	21	35	55
GN 114.6-8-25	8	25	2.8	0.6	10 +0.5	7.9	15	30	8.4	21	35	57
GN 114.6-8-30	8	30	2.8	0.6	10 +0.5	7.9	15	30	8.4	21	35	59
GN 114.6-8-35	8	35	2.8	0.6	10 +0.5	7.9	15	30	8.4	21	35	60
GN 114.6-8-40	8	40	2.8	0.6	10 +0.5	7.9	15	30	8.4	21	35	62
GN 114.6-8-45	8	45	2.8	0.6	10 +0.5	7.9	15	30	8.4	21	35	65
GN 114.6-8-50	8	50	2.8	0.6	10 +0.5	7.9	15	30	8.4	21	35	66
GN 114.6-10-20	10	20	3.3	1	12 +1	9.9	18	34	9.8	26	47	87
GN 114.6-10-25	10	25	3.3	1	12 +1	9.9	18	34	9.8	26	47	90
GN 114.6-10-30	10	30	3.3	1	12 +1	9.9	18	34	9.8	26	47	93
GN 114.6-10-35	10	35	3.3	1	12 +1	9.9	18	34	9.8	26	47	56
GN 114.6-10-40	10	40	3.3	1	12 +1	9.9	18	34	9.8	26	47	99
GN 114.6-10-45	10	45	3.3	1	12 +1	9.9	18	34	9.8	26	47	103
GN 114.6-10-50	10	50	3.3	1	12 +1	9.9	18	34	9.8	26	47	106
GN 114.6-10-60	10	60	3.3	1	12 +1	9.9	18	34	9.8	26	47	111
GN 114.6-12-25	12	25	3.8	1	14 +1	11.9	18	34	11.3	26	75	99
GN 114.6-12-30	12	30	3.8	1	14 +1	11.9	18	34	11.3	26	75	104
GN 114.6-12-35	12	35	3.8	1	14 +1	11.9	18	34	11.3	26	75	109
GN 114.6-12-40	12	40	3.8	1	14 +1	11.9	18	34	11.3	26	75	113
GN 114.6-12-45	12	45	3.8	1	14 +1	11.9	18	34	11.3	26	75	117
GN 114.6-12-50	12	50	3.8	1	14 +1	11.9	18	34	11.3	26	75	121
GN 114.6-12-60	12	60	3.8	1	14 +1	11.9	18	34	11.3	26	75	124
GN 114.6-12-70	12	70	3.8	1	14 +1	11.9	18	34	11.3	26	75	139
GN 114.6-12-80	12	80	3.8	1	14 +1	11.9	18	34	11.3	26	75	146
GN 114.6-16-30	16	30	4.8	1.2	19 +1	15.9	22	40	14.2	32	138	181
GN 114.6-16-35	16	35	4.8	1.2	19 +1	15.9	22	40	14.2	32	138	188
GN 114.6-16-40	16	40	4.8	1.2	19 +1	15.9	22	40	14.2	32	138	196
GN 114.6-16-45	16	45	4.8	1.2	19 +1	15.9	22	40	14.2	32	138	203
GN 114.6-16-50	16	50	4.8	1.2	19 +1	15.9	22	40	14.2	32	138	212
GN 114.6-16-60	16	60	4.8	1.2	19 +1	15.9	22	40	14.2	32	138	226
GN 114.6-16-70	16	70	4.8	1.2	19 +1	15.9	22	40	14.2	32	138	243
GN 114.6-16-80	16	80	4.8	1.2	19 +1	15.9	22	40	14.2	32	138	258
GN 114.6-20-30	20	30	4.8	1.2	23 +1	19.8	25	40	14.8	33	228	219
GN 114.6-20-35	20	35	4.8	1.2	23 +1	19.8	25	40	14.8	33	228	229
GN 114.6-20-40	20	40	4.8	1.2	23 +1	19.8	25	40	14.8	33	228	241
GN 114.6-20-45	20	45	4.8	1.2	23 +1	19.8	25	40	14.8	33	228	256
GN 114.6-20-50	20	50	4.8	1.2	23 +1	19.8	25	40	14.8	33	228	266
GN 114.6-20-60	20	60	4.8	1.2	23 +1	19.8	25	40	14.8	33	228	293
GN 114.6-20-70	20	70	4.8	1.2	23 +1	19.8	25	40	14.8	33	228	314
GN 114.6-20-80	20	80	4.8	1.2	23 +1	19.8	25	40	14.8	33	228	330

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RoHS

Locking pins

with axial lock (Pawl)

SPECIFICATION

Pin
Steel
zinc plated, blue passivated

Pawl
Stainless Steel sheet metal AISI 304

Lifting ring
Stainless Steel AISI 301

Push button / Slide
Plastic

- temperature resistant up to 80 °C
- Push button red

Spring
Stainless Steel AISI 301

INFORMATION

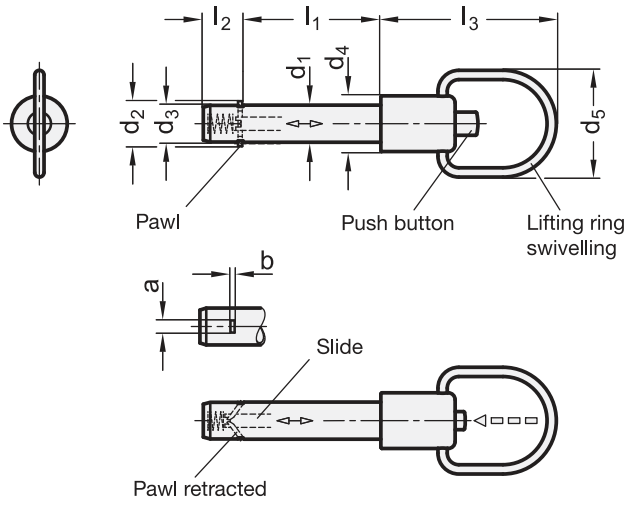
Locking pins with axial lock GN 214.2 are used for quick fixing, connecting and locking of various jig and fixture systems. A typical application is location pins which have to be often removed and replaced again.
The rectangular pawls made of Stainless Steel sheet metal keep the locking pin in an axial position in the bore. It can be retracted by pressing the button, once released it returns the pressure spring into its locking position.
The version with swivelling lifting ring is ideal for the use in confined spaces.
The load values given in the above table at shear stress are theoretically obtained and indicative only. They are non-binding recommended values and rule our any liability. They constitute no general warranty of quality and condition. The user must determine from case to case whether a product is suitable for the intended use.
- Range of locking pins (see page 868)

ACCESSORY

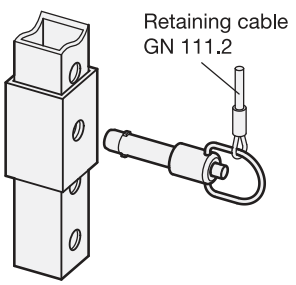
- Ball chains GN 111 (see page 904)
- Stainless Steel-Ball chains GN 111.5 (see page 905)
- Retaining cables GN 111.2 (see page 906)
- Spiral retaining cables GN 111.4 (see page 908)

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)



Application example



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GN 214.2

Description	d1 -0.1	l1 +0.4	a	b	d2	d3	d4	d5	l2	l3	Load in kN ≈ (Double sided shear force) see information	⚖
GN 214.2-6-10	6	10	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	14	18
GN 214.2-6-12	6	12	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	14	18
GN 214.2-6-16	6	16	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	14	18
GN 214.2-6-20	6	20	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	14	19
GN 214.2-6-25	6	25	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	14	20
GN 214.2-6-30	6	30	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	14	21
GN 214.2-6-35	6	35	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	14	22
GN 214.2-6-40	6	40	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	14	23
GN 214.2-6-45	6	45	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	14	23
GN 214.2-6-50	6	50	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	14	24
GN 214.2-8-16	8	16	2.8	0.6	10 +0.5	7.9	12	23	8.4	38	28	21
GN 214.2-8-20	8	20	2.8	0.6	10 +0.5	7.9	12	23	8.4	38	28	22
GN 214.2-8-25	8	25	2.8	0.6	10 +0.5	7.9	12	23	8.4	38	28	24
GN 214.2-8-30	8	30	2.8	0.6	10 +0.5	7.9	12	23	8.4	38	28	25
GN 214.2-8-35	8	35	2.8	0.6	10 +0.5	7.9	12	23	8.4	38	28	27
GN 214.2-8-40	8	40	2.8	0.6	10 +0.5	7.9	12	23	8.4	38	28	27
GN 214.2-8-45	8	45	2.8	0.6	10 +0.5	7.9	12	23	8.4	38	28	29
GN 214.2-8-50	8	50	2.8	0.6	10 +0.5	7.9	12	23	8.4	38	28	32
GN 214.2-10-20	10	20	3.3	1	12 +1	9.9	16	28	9.8	42	38	41
GN 214.2-10-25	10	25	3.3	1	12 +1	9.9	16	28	9.8	42	38	43
GN 214.2-10-30	10	30	3.3	1	12 +1	9.9	16	28	9.8	42	38	45
GN 214.2-10-35	10	35	3.3	1	12 +1	9.9	16	28	9.8	42	38	47
GN 214.2-10-40	10	40	3.3	1	12 +1	9.9	16	28	9.8	42	38	50
GN 214.2-10-45	10	45	3.3	1	12 +1	9.9	16	28	9.8	42	38	52
GN 214.2-10-50	10	50	3.3	1	12 +1	9.9	16	28	9.8	42	38	54
GN 214.2-10-60	10	60	3.3	1	12 +1	9.9	16	28	9.8	42	38	59
GN 214.2-12-25	12	25	3.8	1	14 +1	11.9	16	28	11.3	42	61	52
GN 214.2-12-30	12	30	3.8	1	14 +1	11.9	16	28	11.3	42	61	56
GN 214.2-12-35	12	35	3.8	1	14 +1	11.9	16	28	11.3	42	61	60
GN 214.2-12-40	12	40	3.8	1	14 +1	11.9	16	28	11.3	42	61	63
GN 214.2-12-45	12	45	3.8	1	14 +1	11.9	16	28	11.3	42	61	67
GN 214.2-12-50	12	50	3.8	1	14 +1	11.9	16	28	11.3	42	61	71
GN 214.2-12-60	12	60	3.8	1	14 +1	11.9	16	28	11.3	42	61	77
GN 214.2-12-70	12	70	3.8	1	14 +1	11.9	16	28	11.3	42	61	85
GN 214.2-12-80	12	80	3.8	1	14 +1	11.9	16	28	11.3	42	61	93
GN 214.2-16-30	16	30	4.8	1.2	19 +1	15.9	20	32	14.2	46.5	113	102
GN 214.2-16-35	16	35	4.8	1.2	19 +1	15.9	20	32	14.2	46.5	113	109
GN 214.2-16-40	16	40	4.8	1.2	19 +1	15.9	20	32	14.2	46.5	113	115
GN 214.2-16-45	16	45	4.8	1.2	19 +1	15.9	20	32	14.2	46.5	113	121
GN 214.2-16-50	16	50	4.8	1.2	19 +1	15.9	20	32	14.2	46.5	113	128
GN 214.2-16-60	16	60	4.8	1.2	19 +1	15.9	20	32	14.2	46.5	113	142
GN 214.2-16-70	16	70	4.8	1.2	19 +1	15.9	20	32	14.2	46.5	113	156
GN 214.2-16-80	16	80	4.8	1.2	19 +1	15.9	20	32	14.2	46.5	113	169

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Stainless Steel-Locking pins

Plastic slide, with axial lock (Pawl)

SPECIFICATION

Pin
Stainless Steel AISI 303

Slide / Push button
Plastic
temperature resistant up to 80 °C
red

Pawl
Stainless Steel sheet metal AISI 304

Lifting ring
Stainless Steel AISI 301

Spring
Stainless Steel AISI 301

INFORMATION

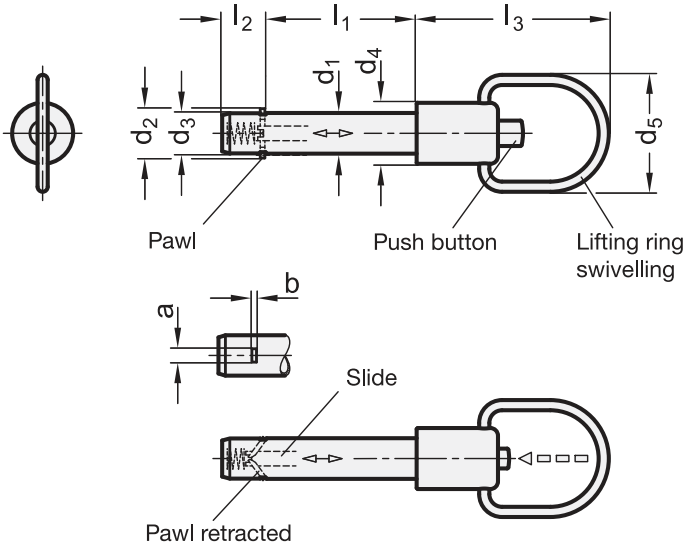
Stainless Steel-Locking pins with axial lock GN 214.3 are used for quick fixing, connecting and locking of various jig and fixture systems. A typical application is location pins which have to be often removed and re-placed again.
The rectangular pawls made of Stainless Steel sheet metal keep the locking pin in an axial position in the bore. It can be retracted by pressing the button, once released it returns the pressure spring into its locking position.
The version with swivelling lifting ring is ideal for the use in confined spaces.
The load values given in the above table at shear stress are theoretically obtained and indicative only. They are non-binding recommended values and rule our any liability. They constitute no general warranty of quality and condition. The user must determine from case to case whether a product is suitable for the intended use.
- Range of locking pins (see page 868)

ACCESSORY

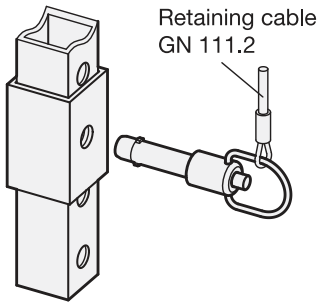
- Ball chains GN 111 (see page 904)
- Stainless Steel-Ball chains GN 111.5 (see page 905)
- Retaining cables GN 111.2 (see page 906)
- Spiral retaining cables GN 111.4 (see page 908)

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)



Application example



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GN 214.3 | Stainless Steel-Locking pins

GN 214.3 **STAINLESS STEEL**

Description	d_1 -0.1	l_1 +0.4	a	b	d_2	d_3	d_4	d_5	l_2	l_3	Load in kN ≈ (Double sided shear force) see information	⚖
GN 214.3-6-10	6	10	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	17	18
GN 214.3-6-12	6	12	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	17	18
GN 214.3-6-16	6	16	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	17	18
GN 214.3-6-20	6	20	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	17	19
GN 214.3-6-25	6	25	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	17	20
GN 214.3-6-30	6	30	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	17	21
GN 214.3-6-35	6	35	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	17	21
GN 214.3-6-40	6	40	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	17	22
GN 214.3-6-45	6	45	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	17	23
GN 214.3-6-50	6	50	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	17	24
GN 214.3-8-16	8	16	2.8	0.6	10 +0.5	7.9	12	23	8.4	38	35	21
GN 214.3-8-20	8	20	2.8	0.6	10 +0.5	7.9	12	23	8.4	38	35	22
GN 214.3-8-25	8	25	2.8	0.6	10 +0.5	7.9	12	23	8.4	38	35	24
GN 214.3-8-30	8	30	2.8	0.6	10 +0.5	7.9	12	23	8.4	38	35	25
GN 214.3-8-35	8	35	2.8	0.6	10 +0.5	7.9	12	23	8.4	38	35	27
GN 214.3-8-40	8	40	2.8	0.6	10 +0.5	7.9	12	23	8.4	38	35	29
GN 214.3-8-45	8	45	2.8	0.6	10 +0.5	7.9	12	23	8.4	38	35	31
GN 214.3-8-50	8	50	2.8	0.6	10 +0.5	7.9	12	23	8.4	38	35	32
GN 214.3-10-20	10	20	3.3	1	12 +1	9.9	16	28	9.8	42	47	39
GN 214.3-10-25	10	25	3.3	1	12 +1	9.9	16	28	9.8	42	47	42
GN 214.3-10-30	10	30	3.3	1	12 +1	9.9	16	28	9.8	42	47	45
GN 214.3-10-35	10	35	3.3	1	12 +1	9.9	16	28	9.8	42	47	47
GN 214.3-10-40	10	40	3.3	1	12 +1	9.9	16	28	9.8	42	47	50
GN 214.3-10-45	10	45	3.3	1	12 +1	9.9	16	28	9.8	42	47	52
GN 214.3-10-50	10	50	3.3	1	12 +1	9.9	16	28	9.8	42	47	54
GN 214.3-10-60	10	60	3.3	1	12 +1	9.9	16	28	9.8	42	47	59
GN 214.3-12-25	12	25	3.8	1	14 +1	11.9	16	28	11.3	42	75	53
GN 214.3-12-30	12	30	3.8	1	14 +1	11.9	16	28	11.3	42	75	55
GN 214.3-12-35	12	35	3.8	1	14 +1	11.9	16	28	11.3	42	75	59
GN 214.3-12-40	12	40	3.8	1	14 +1	11.9	16	28	11.3	42	75	62
GN 214.3-12-45	12	45	3.8	1	14 +1	11.9	16	28	11.3	42	75	67
GN 214.3-12-50	12	50	3.8	1	14 +1	11.9	16	28	11.3	42	75	70
GN 214.3-12-60	12	60	3.8	1	14 +1	11.9	16	28	11.3	42	75	77
GN 214.3-12-70	12	70	3.8	1	14 +1	11.9	16	28	11.3	42	75	84
GN 214.3-12-80	12	80	3.8	1	14 +1	11.9	16	28	11.3	42	75	91
GN 214.3-16-30	16	30	4.8	1.2	19 +1	15.9	20	32	14.2	46.5	138	102
GN 214.3-16-35	16	35	4.8	1.2	19 +1	15.9	20	32	14.2	46.5	138	109
GN 214.3-16-40	16	40	4.8	1.2	19 +1	15.9	20	32	14.2	46.5	138	116
GN 214.3-16-45	16	45	4.8	1.2	19 +1	15.9	20	32	14.2	46.5	138	122
GN 214.3-16-50	16	50	4.8	1.2	19 +1	15.9	20	32	14.2	46.5	138	129
GN 214.3-16-60	16	60	4.8	1.2	19 +1	15.9	20	32	14.2	46.5	138	143
GN 214.3-16-70	16	70	4.8	1.2	19 +1	15.9	20	32	14.2	46.5	138	155
GN 214.3-16-80	16	80	4.8	1.2	19 +1	15.9	20	32	14.2	46.5	138	168

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Stainless Steel-Locking pins

Stainless Steel-Slide, with axial lock (Pawl)

SPECIFICATION

Pin
Stainless Steel AISI 303

Slide / Push button
Stainless Steel AISI 303

Pawl
Stainless Steel sheet metal AISI 304

Lifting ring
Stainless Steel AISI 301

Spring
Stainless Steel AISI 301

INFORMATION

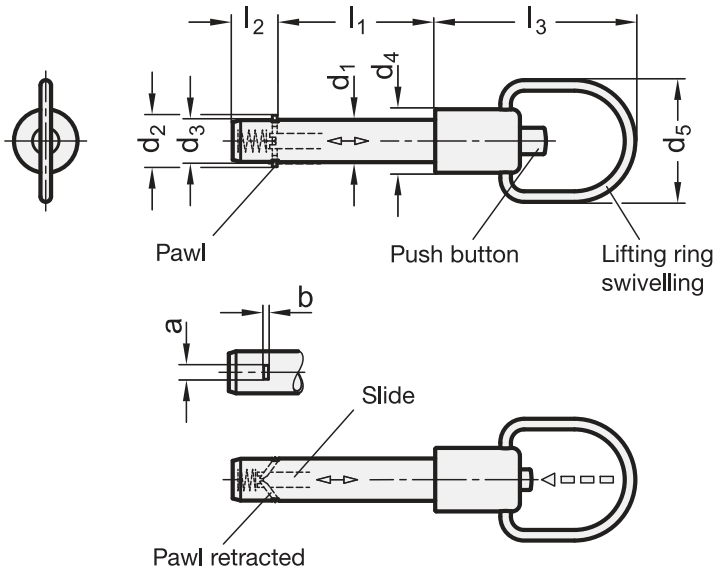
Stainless Steel-Locking pins with axial lock GN 214.6 are used for quick fixing, connecting and locking of various jig and fixture systems. A typical application is location pins which have to be often removed and re-placed again.
The rectangular pawls made of Stainless Steel sheet metal keep the locking pin in an axial position in the bore. It can be retracted by pressing the button, once released it returns the pressure spring into its locking position.
The version with swivelling lifting ring is ideal for the use in confined spaces.
The load values given in the above table at shear stress are theoretically obtained and indicative only. They are non-binding recommended values and rule our any liability. They constitute no general warranty of quality and condition. The user must determine from case to case whether a product is suitable for the intended use.
- Range of locking pins (see page 868)

ACCESSORY

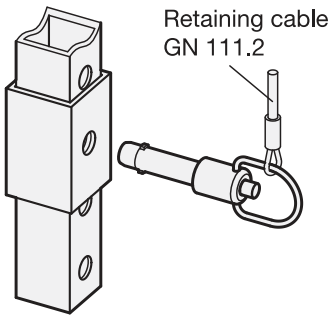
- Ball chains GN 111 (see page 904)
- Stainless Steel-Ball chains GN 111.5 (see page 905)
- Retaining cables GN 111.2 (see page 906)
- Spiral retaining cables GN 111.4 (see page 908)

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)



Application example



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GN 214.6 | Stainless Steel-Locking pins

GN 214.6 **STAINLESS STEEL**

Description	d1 -0.1	l1 +0.4	a	b	d2	d3	d4	d5	l2	l3	Load in kN ≈ (Double sided shear force) see information	⚖
GN 214.6-6-16	6	16	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	17	20
GN 214.6-6-20	6	20	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	17	21
GN 214.6-6-25	6	25	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	17	22
GN 214.6-6-30	6	30	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	17	23
GN 214.6-6-35	6	35	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	17	24
GN 214.6-6-40	6	40	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	17	25
GN 214.6-6-45	6	45	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	17	26
GN 214.6-6-50	6	50	2.3	0.5	7.5 +0.5	5.9	12	23	7	38	17	27
GN 214.6-8-16	8	16	2.8	0.6	10 +0.5	7.9	12	23	8.4	38	35	23
GN 214.6-8-20	8	20	2.8	0.6	10 +0.5	7.9	12	23	8.4	38	35	25
GN 214.6-8-25	8	25	2.8	0.6	10 +0.5	7.9	12	23	8.4	38	35	27
GN 214.6-8-30	8	30	2.8	0.6	10 +0.5	7.9	12	23	8.4	38	35	29
GN 214.6-8-35	8	35	2.8	0.6	10 +0.5	7.9	12	23	8.4	38	35	30
GN 214.6-8-40	8	40	2.8	0.6	10 +0.5	7.9	12	23	8.4	38	35	32
GN 214.6-8-45	8	45	2.8	0.6	10 +0.5	7.9	12	23	8.4	38	35	34
GN 214.6-8-50	8	50	2.8	0.6	10 +0.5	7.9	12	23	8.4	38	35	36
GN 214.6-10-20	10	20	3.3	1	12 +1	9.9	16	28	9.8	42	47	49
GN 214.6-10-25	10	25	3.3	1	12 +1	9.9	16	28	9.8	42	47	52
GN 214.6-10-30	10	30	3.3	1	12 +1	9.9	16	28	9.8	42	47	55
GN 214.6-10-35	10	35	3.3	1	12 +1	9.9	16	28	9.8	42	47	58
GN 214.6-10-40	10	40	3.3	1	12 +1	9.9	16	28	9.8	42	47	60
GN 214.6-10-45	10	45	3.3	1	12 +1	9.9	16	28	9.8	42	47	63
GN 214.6-10-50	10	50	3.3	1	12 +1	9.9	16	28	9.8	42	47	66
GN 214.6-10-60	10	60	3.3	1	12 +1	9.9	16	28	9.8	42	47	74
GN 214.6-12-25	12	25	3.8	1	14 +1	11.9	16	28	11.3	42	75	61
GN 214.6-12-30	12	30	3.8	1	14 +1	11.9	16	28	11.3	42	75	65
GN 214.6-12-35	12	35	3.8	1	14 +1	11.9	16	28	11.3	42	75	69
GN 214.6-12-40	12	40	3.8	1	14 +1	11.9	16	28	11.3	42	75	73
GN 214.6-12-45	12	45	3.8	1	14 +1	11.9	16	28	11.3	42	75	78
GN 214.6-12-50	12	50	3.8	1	14 +1	11.9	16	28	11.3	42	75	82
GN 214.6-12-60	12	60	3.8	1	14 +1	11.9	16	28	11.3	42	75	90
GN 214.6-12-70	12	70	3.8	1	14 +1	11.9	16	28	11.3	42	75	99
GN 214.6-12-80	12	80	3.8	1	14 +1	11.9	16	28	11.3	42	75	107
GN 214.6-16-30	16	30	4.8	1.2	19 +1	15.9	20	32	14.2	46.5	138	119
GN 214.6-16-35	16	35	4.8	1.2	19 +1	15.9	20	32	14.2	46.5	138	128
GN 214.6-16-40	16	40	4.8	1.2	19 +1	15.9	20	32	14.2	46.5	138	135
GN 214.6-16-45	16	45	4.8	1.2	19 +1	15.9	20	32	14.2	46.5	138	142
GN 214.6-16-50	16	50	4.8	1.2	19 +1	15.9	20	32	14.2	46.5	138	150
GN 214.6-16-60	16	60	4.8	1.2	19 +1	15.9	20	32	14.2	46.5	138	165
GN 214.6-16-70	16	70	4.8	1.2	19 +1	15.9	20	32	14.2	46.5	138	183
GN 214.6-16-80	16	80	4.8	1.2	19 +1	15.9	20	32	14.2	46.5	138	197

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Stainless Steel-Ball lock pins

with clamping length compensation

SPECIFICATION

Pin
Stainless Steel AISI 303

Handle
Plastic (Polyamide PA)

- black-grey / red
- temperature resistant up to 80 °C

Balls
Stainless Steel AISI 420C

Spring
Stainless Steel AISI 631

INFORMATION

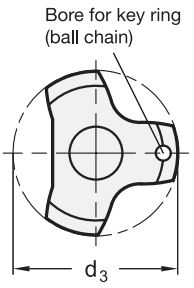
Stainless Steel-Ball lock pins GN 113.1 are used for rapid clamping and, at the same time, play-free clamping of thin components in particular where frequent clamping and releasing is required. A typical application is the alignment and clamping of sheet metal during a welding process.
By depressing the spring-loaded push button the pin advances by the length l_2 and at the same time frees the two balls.
- Range of locking pins (see page 868)

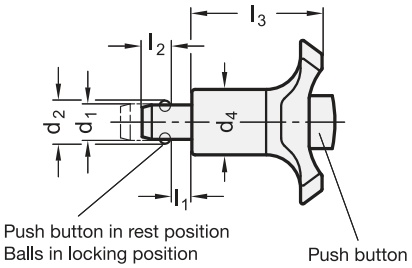
ACCESSORY

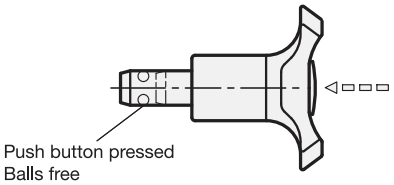
- Ball chains GN 111 (see page 904)
- Stainless Steel-Ball chains GN 111.5 (see page 905)
- Retaining cables GN 111.2 (see page 906)
- Spiral retaining cables GN 111.4 (see page 908)

TECHNICAL INFORMATION

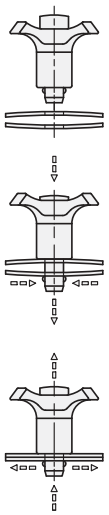
- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)







Application example



GN 113.1 — **STAINLESS STEEL**

Description	d1 -0.04/-0.08	l1 max.	l1 min.	d2	d3	d4	l2	l3	Locating bore H11	Clamping force max. in N ≈	⚖
GN 113.1-6-0	6	5	0	7	38	17.5	5	30	6	16	16
GN 113.1-6-5	6	10	5	7	38	17.5	5	30	6	18	23
GN 113.1-8-0	8	5	0	9.5	38	17.5	6.5	30	8	16	19
GN 113.1-8-5	8	10	5	9.5	38	17.5	6.5	30	8	18	20
GN 113.1-10-0	10	5	0	12	47	23	8.7	36	10	21	38
GN 113.1-10-5	10	10	5	12	47	23	8.7	36	10	23	39
GN 113.1-12-0	12	5	0	14	47	23	9.4	36	12	21	42
GN 113.1-12-5	12	10	5	14	47	23	9.4	36	12	23	44

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GN 124.2

Stainless Steel-Locking pins

with axial lock (Ball retainer)

SPECIFICATION

Pin
Stainless Steel AISI 303

Knob
Plastic Technopolymer (Polyamide PA)

- black-grey
- temperature resistant up to 80 °C

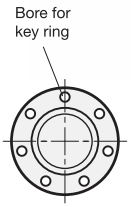
Ball
Stainless Steel AISI 420C

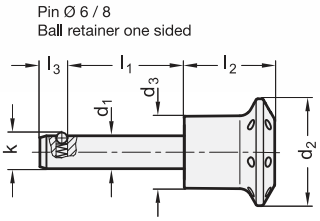
Spring
Stainless Steel AISI 631

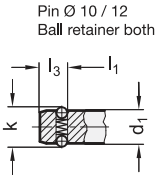
INFORMATION

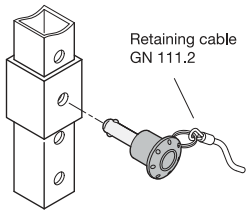
GN 124.2 Stainless Steel-Locking pins are used for quick fixing, connecting and locking of various jig and fixture systems.
The locking balls are held in position by a pressure spring and are therefore not rigidly locked. The bolts can be quickly and easily inserted and removed from the locating hole.
The rated shear stresses of the bolt cross-section are theoretical guide values only and do not constitute any warranty. They constitute no general warranty of quality and condition. The user must determine from case to case whether a product is suitable for the intended use.
This standard replaces the previous Stainless Steel-Locking pins GN 124.

- Range of locking pins (see page 868)









ACCESSORY

- Stainless Steel-Ball chains GN 111.5 (see page 905)
- Retaining cables GN 111.2 (see page 906)

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)

GN 124.2 **STAINLESS STEEL**

Description	d1 -0.04/-0.08	l1	d2	d3	k	l2	l3	Locating bore	Axial holding force in N ≈	Load in kN ≈ (Double sided shear force) according DIN 50141	⚖
GN 124.2-6-10	6	10	26	17.5	6.5	22	5	6	8	22	13
GN 124.2-6-15	6	15	26	17.5	6.5	22	5	6	8	22	15
GN 124.2-6-20	6	20	26	17.5	6.5	22	5	6	8	22	16
GN 124.2-6-25	6	25	26	17.5	6.5	22	5	6	8	22	16
GN 124.2-6-30	6	30	26	17.5	6.5	22	5	6	8	22	19
GN 124.2-6-50	6	50	26	17.5	6.5	22	5	6	8	22	19
GN 124.2-8-15	8	15	26	17.5	8.7	22	6.3	8	15	40	19
GN 124.2-8-20	8	20	26	17.5	8.7	22	6.3	8	15	40	19
GN 124.2-8-25	8	25	26	17.5	8.7	22	6.3	8	15	40	20
GN 124.2-8-30	8	30	26	17.5	8.7	22	6.3	8	15	40	25
GN 124.2-8-50	8	50	26	17.5	8.7	22	6.3	8	15	40	33
GN 124.2-10-15	10	15	34	23	12	28.5	8.7	10	30	62	39
GN 124.2-10-20	10	20	34	23	12	28.5	8.7	10	30	62	42
GN 124.2-10-25	10	25	34	23	12	28.5	8.7	10	30	62	45
GN 124.2-10-30	10	30	34	23	12	28.5	8.7	10	30	62	48
GN 124.2-10-50	10	50	34	23	12	28.5	8.7	10	30	62	59
GN 124.2-12-20	12	20	34	23	14.5	28.5	9.5	12	32	90	51
GN 124.2-12-30	12	30	34	23	14.5	28.5	9.5	12	32	90	59
GN 124.2-12-40	12	40	34	23	14.5	28.5	9.5	12	32	90	68
GN 124.2-12-50	12	50	34	23	14.5	28.5	9.5	12	32	90	75

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Stainless Steel-Locking pins

with axial lock (magnetic)

SPECIFICATION

Pin
Stainless Steel AISI 303

Knob
Plastic Technopolymer (Polyamide PA)

- black-grey
- temperature resistant up to 80 °C

Retaining magnet
Neodymium, iron, boron

INFORMATION

GN 124.1 Stainless Steel-Locking pins are used for quickly fixing, connecting and locking various parts and workpieces made of magnetic materials.
A neodymium magnet is recessed into the underside of the bolt and axially retains the bolt in its inserted procession. High-quality surfaces with perpendicular locating holes promote magnetic flux to produce excellent axial retention.
The rated shear stresses of the bolt cross-section are theoretical guide values only and do not constitute any warranty. They constitute no general warranty of quality and condition. The user must determine from case to case whether a product is suitable for the intended use.
- Range of locking pins (see page 868)

ACCESSORY

- Ball chains GN 111 (see page 904)
- Stainless Steel-Ball chains GN 111.5 (see page 905)
- Retaining cables GN 111.2 (see page 906)
- Spiral retaining cables GN 111.4 (see page 908)

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Plastic characteristics (see page A2)

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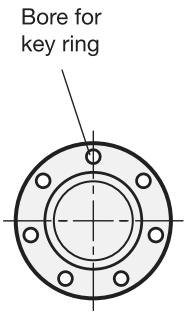
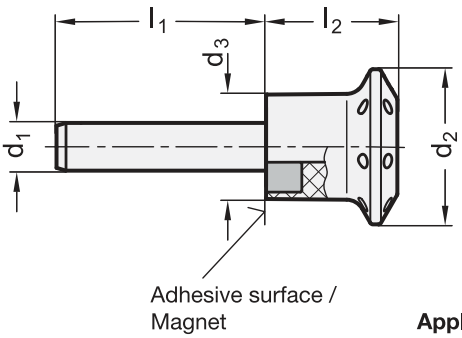
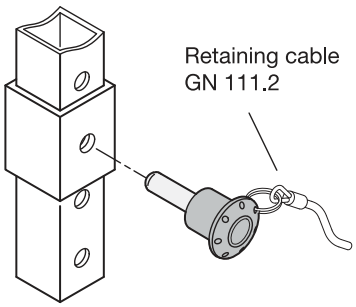
GN 124.1 | Stainless Steel-Locking pins





Application example



GN 124.1 **STAINLESS STEEL**

Description	d1 -0.04/-0.08	l1	d2	d3	l2	Locating bore	Axial holding force in N ≈	Load in kN ≈ (Double sided shear force) according DIN 50141	⚖
GN 124.1-6-12	6	12	26	17.5	22	6	65	22	13
GN 124.1-6-17	6	17	26	17.5	22	6	65	22	19
GN 124.1-6-22	6	22	26	17.5	22	6	65	22	20
GN 124.1-6-27	6	27	26	17.5	22	6	65	22	21
GN 124.1-6-32	6	32	26	17.5	22	6	65	22	22
GN 124.1-6-42	6	42	26	17.5	22	6	65	22	24
GN 124.1-6-52	6	52	26	17.5	22	6	65	22	27
GN 124.1-8-17	8	17	26	17.5	22	8	45	40	24
GN 124.1-8-22	8	22	26	17.5	22	8	45	40	24
GN 124.1-8-27	8	27	26	17.5	22	8	45	40	25
GN 124.1-8-32	8	32	26	17.5	22	8	45	40	27
GN 124.1-8-42	8	42	26	17.5	22	8	45	40	31
GN 124.1-8-52	8	52	26	17.5	22	8	45	40	35
GN 124.1-8-62	8	62	26	17.5	22	8	45	40	38
GN 124.1-10-18	10	18	34	23	28.5	10	95	62	43
GN 124.1-10-23	10	23	34	23	28.5	10	95	62	46
GN 124.1-10-28	10	28	34	23	28.5	10	95	62	49
GN 124.1-10-33	10	33	34	23	28.5	10	95	62	52
GN 124.1-10-43	10	43	34	23	28.5	10	95	62	58
GN 124.1-10-53	10	53	34	23	28.5	10	95	62	64
GN 124.1-10-63	10	63	34	23	28.5	10	95	62	71
GN 124.1-12-23	12	23	34	23	28.5	12	75	90	52
GN 124.1-12-33	12	33	34	23	28.5	12	75	90	61
GN 124.1-12-43	12	43	34	23	28.5	12	75	90	70
GN 124.1-12-53	12	53	34	23	28.5	12	75	90	78
GN 124.1-12-63	12	63	34	23	28.5	12	75	90	87
GN 124.1-12-83	12	83	34	23	28.5	12	75	90	104

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Stainless Steel-Assembly pins

SPECIFICATION

Types

- Type **B**: with plain washer
- Type **E**: with washer with eyelet, suitable for key rings
- Type **L**: with washer, with mounting shackle (only identification no.1)

Identification no.

- No. **1**: without cross hole
- No. **2**: with cross hole for spring cotter pin GN 1024 (see page 909)

Assembly pin
Stainless Steel AISI 304 **NI**

Washer
Stainless Steel

- Type B: turned AISI 304
- Type E: metal injection molded AISI 316 LHC
- Type L: sintered AISI 316 LHC

Countersunk screw DIN 7991
Stainless Steel AISI 304
not removable

INFORMATION

GN 2342 Stainless Steel-Assembly pins are characterized by their use in diverse applications.
Depending on the requirement there are three washer types to choose from, which place the assembly pin in an axial position in its insertion direction. With the washer with eyelet (Type E) the assembly pin and a corresponding GN 1024 (see page 909) spring cotter pin can be secured to prevent loss using a retaining cable or ball chain. The washer with mounting shackle (Type L) simultaneously acts as loss protection and anti-rotation protection. Assembly pins according to identification no. 2 are secured against falling out via a transverse drill hole which is aligned to the GN 1024 (see page 909).

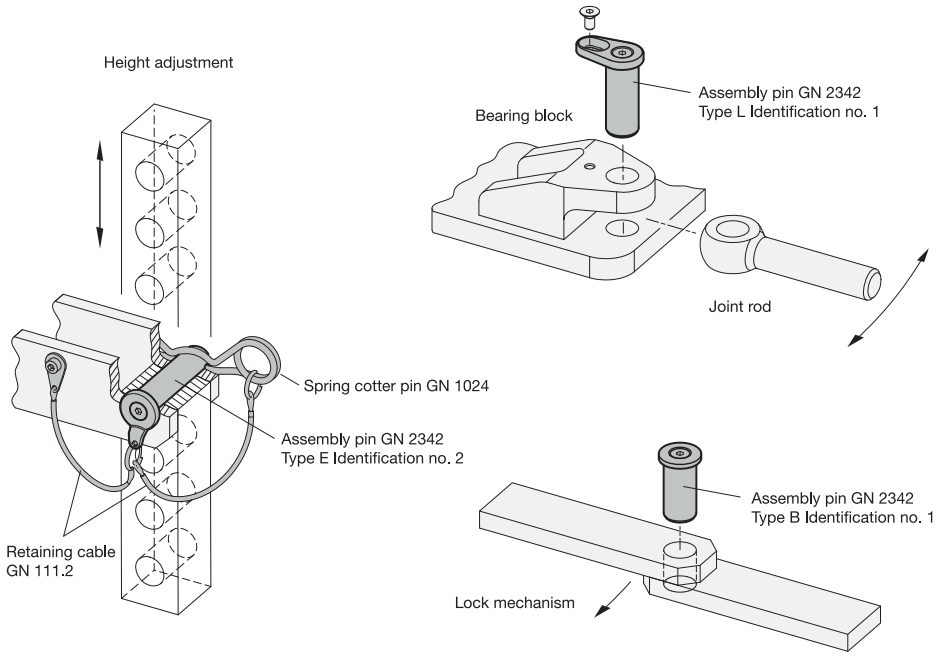
ACCESSORY

- Spring cotter pins GN 1024 (see page 909)
- Ball chains GN 111 (see page 904)
- Retaining cables GN 111.2 (see page 906)
- Key rings GN 111.3 (see page 903)

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)

APPLICATION EXAMPLE



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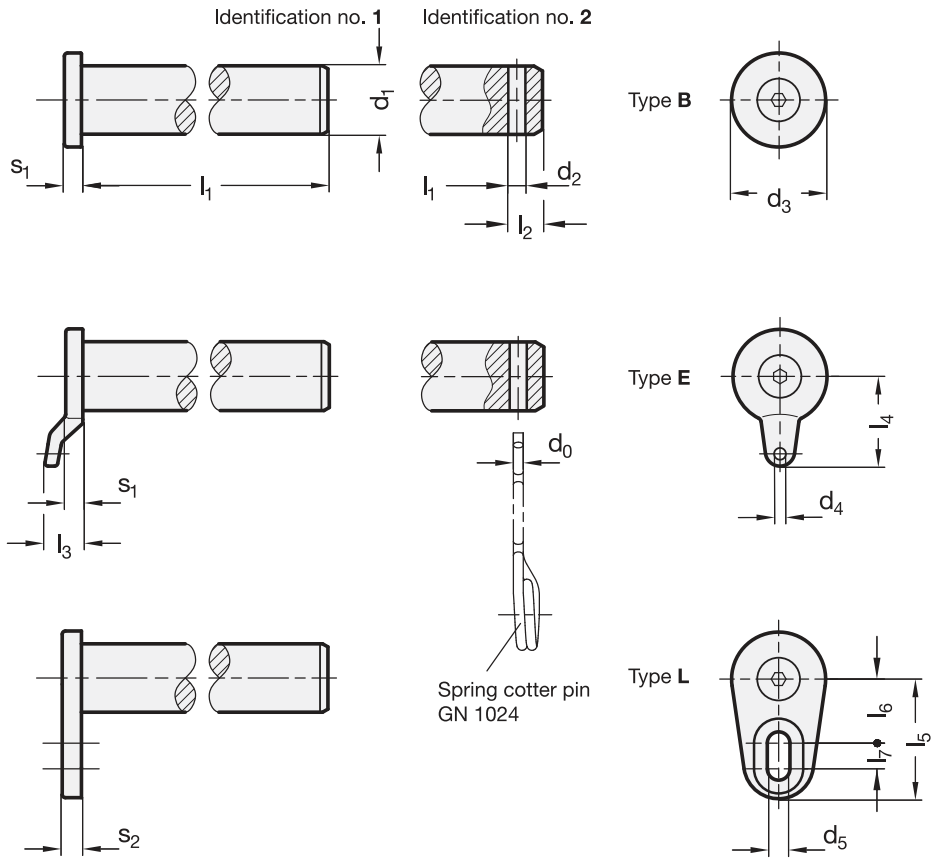
GN 2342 | Stainless Steel-Assembly pins



*Complete with type index of the Stainless Steel-Assembly Pins (B, E or L)

B E L**

GN 2342 STAINLESS STEEL

Description	d1 h9	l1	d2	d3	d4	d5	l2	l3	l4	l5	l6	l7	s1	s2	Suitable spring cotter pins for Identification no. 2	⚖
GN 2342-NI-8-16-*-1	8	16	2.5	12	2.5	4.3	5.5	7	13.5	18	10	2	3	4	-	10
GN 2342-NI-8-16-*-2	8**	16	2.5	12	2.5	-	5.5	7	13.5	-	-	-	3	4	GN 1024-NI-2-D	12
GN 2342-NI-8-20-*-1	8	20	2.5	12	2.5	4.3	5.5	7	13.5	18	10	2	3	4	-	11
GN 2342-NI-8-20-*-2	8**	20	2.5	12	2.5	-	5.5	7	13.5	-	-	-	3	4	GN 1024-NI-2-D	13
GN 2342-NI-8-24-*-1	8	24	2.5	12	2.5	4.3	5.5	7	13.5	18	10	2	3	4	-	13
GN 2342-NI-8-24-*-2	8**	24	2.5	12	2.5	-	5.5	7	13.5	-	-	-	3	4	GN 1024-NI-2-D	15
GN 2342-NI-8-28-*-1	8	28	2.5	12	2.5	4.3	5.5	7	13.5	18	10	2	3	4	-	14
GN 2342-NI-8-28-*-2	8**	28	2.5	12	2.5	-	5.5	7	13.5	-	-	-	3	4	GN 1024-NI-2-D	16
GN 2342-NI-8-30-*-1	8	30	2.5	12	2.5	4.3	5.5	7	13.5	18	10	2	3	4	-	15
GN 2342-NI-8-30-*-2	8**	30	2.5	12	2.5	-	5.5	7	13.5	-	-	-	3	4	GN 1024-NI-2-D	17
GN 2342-NI-8-32-*-1	8	32	2.5	12	2.5	4.3	5.5	7	13.5	18	10	2	3	4	-	16
GN 2342-NI-8-32-*-2	8**	32	2.5	12	2.5	-	5.5	7	13.5	-	-	-	3	4	GN 1024-NI-2-D	18
GN 2342-NI-8-35-*-1	8	35	2.5	12	2.5	4.3	5.5	7	13.5	18	10	2	3	4	-	17
GN 2342-NI-8-35-*-2	8**	35	2.5	12	2.5	-	5.5	7	13.5	-	-	-	3	4	GN 1024-NI-2-D	19
GN 2342-NI-8-40-*-1	8	40	2.5	12	2.5	4.3	5.5	7	13.5	18	10	2	3	4	-	19
GN 2342-NI-8-40-*-2	8**	40	2.5	12	2.5	-	5.5	7	13.5	-	-	-	3	4	GN 1024-NI-2-D	21
GN 2342-NI-8-45-*-1	8	45	2.5	12	2.5	4.3	5.5	7	13.5	18	10	2	3	4	-	21
GN 2342-NI-8-45-*-2	8**	45	2.5	12	2.5	-	5.5	7	13.5	-	-	-	3	4	GN 1024-NI-2-D	23
GN 2342-NI-8-50-*-1	8	50	2.5	12	2.5	4.3	5.5	7	13.5	18	10	2	3	4	-	23
GN 2342-NI-8-50-*-2	8**	50	2.5	12	2.5	-	5.5	7	13.5	-	-	-	3	4	GN 1024-NI-2-D	25
GN 2342-NI-8-55-*-1	8	55	2.5	12	2.5	4.3	5.5	7	13.5	18	10	2	3	4	-	25
GN 2342-NI-8-55-*-2	8**	55	2.5	12	2.5	-	5.5	7	13.5	-	-	-	3	4	GN 1024-NI-2-D	27
GN 2342-NI-8-60-*-1	8	60	2.5	12	2.5	4.3	5.5	7	13.5	18	10	2	3	4	-	27
GN 2342-NI-8-60-*-2	8**	60	2.5	12	2.5	-	5.5	7	13.5	-	-	-	3	4	GN 1024-NI-2-D	29

** This type (L) is only available in Identification no. 1

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GN 2342 | Stainless Steel-Assembly pins

*Complete with type index of the Stainless Steel-Assembly Pins (B, E or L)

B E L**

GN 2342 **STAINLESS STEEL**

Description	d1 h9	l1	d2	d3	d4	d5	l2	l3	l4	l5	l6	l7	s1	s2	Suitable spring cotter pins for Identification no. 2	⚖
GN 2342-NI-10-20-*-1	10	20	2.5	15	2.5	4.3	6	7	15	21	11	4	3	4	-	17
GN 2342-NI-10-20-*-2	10**	20	2.5	15	2.5	-	6	7	15	-	-	-	3	4	GN 1024-NI-2-E / ...-D	21
GN 2342-NI-10-24-*-1	10	24	2.5	15	2.5	4.3	6	7	15	21	11	4	3	4	-	19
GN 2342-NI-10-24-*-2	10**	24	2.5	15	2.5	-	6	7	15	-	-	-	3	4	GN 1024-NI-2-E / ...-D	23
GN 2342-NI-10-30-*-1	10	30	2.5	15	2.5	4.3	6	7	15	21	11	4	3	4	-	23
GN 2342-NI-10-30-*-2	10**	30	2.5	15	2.5	-	6	7	15	-	-	-	3	4	GN 1024-NI-2-E / ...-D	27
GN 2342-NI-10-35-*-1	10	35	2.5	15	2.5	4.3	6	7	15	21	11	4	3	4	-	26
GN 2342-NI-10-35-*-2	10**	35	2.5	15	2.5	-	6	7	15	-	-	-	3	4	GN 1024-NI-2-E / ...-D	30
GN 2342-NI-10-40-*-1	10	40	2.5	15	2.5	4.3	6	7	15	21	11	4	3	4	-	29
GN 2342-NI-10-40-*-2	10**	40	2.5	15	2.5	-	6	7	15	-	-	-	3	4	GN 1024-NI-2-E / ...-D	33
GN 2342-NI-10-45-*-1	10	45	2.5	15	2.5	4.3	6	7	15	21	11	4	3	4	-	32
GN 2342-NI-10-45-*-2	10**	45	2.5	15	2.5	-	6	7	15	-	-	-	3	4	GN 1024-NI-2-E / ...-D	36
GN 2342-NI-10-50-*-1	10	50	2.5	15	2.5	4.3	6	7	15	21	11	4	3	4	-	36
GN 2342-NI-10-50-*-2	10**	50	2.5	15	2.5	-	6	7	15	-	-	-	3	4	GN 1024-NI-2-E / ...-D	39
GN 2342-NI-10-55-*-1	10	55	2.5	15	2.5	4.3	6	7	15	21	11	4	3	4	-	39
GN 2342-NI-10-55-*-2	10**	55	2.5	15	2.5	-	6	7	15	-	-	-	3	4	GN 1024-NI-2-E / ...-D	42
GN 2342-NI-10-60-*-1	10	60	2.5	15	2.5	4.3	6	7	15	21	11	4	3	4	-	42
GN 2342-NI-10-60-*-2	10**	60	2.5	15	2.5	-	6	7	15	-	-	-	3	4	GN 1024-NI-2-E / ...-D	44
GN 2342-NI-10-65-*-1	10	65	2.5	15	2.5	4.3	6	7	15	21	11	4	3	4	-	45
GN 2342-NI-10-65-*-2	10**	65	2.5	15	2.5	-	6	7	15	-	-	-	3	4	GN 1024-NI-2-E / ...-D	48
GN 2342-NI-10-70-*-1	10	70	2.5	15	2.5	4.3	6	7	15	21	11	4	3	4	-	48
GN 2342-NI-10-70-*-2	10**	70	2.5	15	2.5	-	6	7	15	-	-	-	3	4	GN 1024-NI-2-E / ...-D	51
GN 2342-NI-10-80-*-1	10	80	2.5	15	2.5	4.3	6	7	15	21	11	4	3	4	-	54
GN 2342-NI-10-80-*-2	10**	80	2.5	15	2.5	-	6	7	15	-	-	-	3	4	GN 1024-NI-2-E / ...-D	58
GN 2342-NI-12-20-*-1	12	20	2.5	17	3	5.3	7	9	18.5	23	12	4	4	4.5	-	25
GN 2342-NI-12-20-*-2	12**	20	2.5	17	3	-	7	9	18.5	-	-	-	4	4.5	GN 1024-NI-2-E / ...-D	30
GN 2342-NI-12-24-*-1	12	24	2.5	17	3	5.3	7	9	18.5	23	12	4	4	4.5	-	29
GN 2342-NI-12-24-*-2	12**	24	2.5	17	3	-	7	9	18.5	-	-	-	4	4.5	GN 1024-NI-2-E / ...-D	34
GN 2342-NI-12-30-*-1	12	30	2.5	17	3	5.3	7	9	18.5	23	12	4	4	4.5	-	34
GN 2342-NI-12-30-*-2	12**	30	2.5	17	3	-	7	9	18.5	-	-	-	4	4.5	GN 1024-NI-2-E / ...-D	39
GN 2342-NI-12-35-*-1	12	35	2.5	17	3	5.3	7	9	18.5	23	12	4	4	4.5	-	45
GN 2342-NI-12-35-*-2	12**	35	2.5	17	3	-	7	9	18.5	-	-	-	4	4.5	GN 1024-NI-2-E / ...-D	46
GN 2342-NI-12-40-*-1	12	40	2.5	17	3	5.3	7	9	18.5	23	12	4	4	4.5	-	42
GN 2342-NI-12-40-*-2	12**	40	2.5	17	3	-	7	9	18.5	-	-	-	4	4.5	GN 1024-NI-2-E / ...-D	48
GN 2342-NI-12-45-*-1	12	45	2.5	17	3	5.3	7	9	18.5	23	12	4	4	4.5	-	47
GN 2342-NI-12-45-*-2	12**	45	2.5	17	3	-	7	9	18.5	-	-	-	4	4.5	GN 1024-NI-2-E / ...-D	53
GN 2342-NI-12-50-*-1	12	50	2.5	17	3	5.3	7	9	18.5	23	12	4	4	4.5	-	51
GN 2342-NI-12-50-*-2	12**	50	2.5	17	3	-	7	9	18.5	-	-	-	4	4.5	GN 1024-NI-2-E / ...-D	57
GN 2342-NI-12-55-*-1	12	55	2.5	17	3	5.3	7	9	18.5	23	12	4	4	4.5	-	56
GN 2342-NI-12-55-*-2	12**	55	2.5	17	3	-	7	9	18.5	-	-	-	4	4.5	GN 1024-NI-2-E / ...-D	61
GN 2342-NI-12-60-*-1	12	60	2.5	17	3	5.3	7	9	18.5	23	12	4	4	4.5	-	61
GN 2342-NI-12-60-*-2	12**	60	2.5	17	3	-	7	9	18.5	-	-	-	4	4.5	GN 1024-NI-2-E / ...-D	66
GN 2342-NI-12-65-*-1	12	65	2.5	17	3	5.3	7	9	18.5	23	12	4	4	4.5	-	65
GN 2342-NI-12-65-*-2	12**	65	2.5	17	3	-	7	9	18.5	-	-	-	4	4.5	GN 1024-NI-2-E / ...-D	70
GN 2342-NI-12-70-*-1	12	70	2.5	17	3	5.3	7	9	18.5	23	12	4	4	4.5	-	70
GN 2342-NI-12-70-*-2	12**	70	2.5	17	3	-	7	9	18.5	-	-	-	4	4.5	GN 1024-NI-2-E / ...-D	75

** This type (L) is only available in Identification no. 1

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GN 2342 | Stainless Steel-Assembly pins

*Complete with type index of the Stainless Steel-Assembly Pins (B, E or L)

B **E** **L****

GN 2342 **STAINLESS STEEL**

Description	d1 h9	l1	d2	d3	d4	d5	l2	l3	l4	l5	l6	l7	s1	s2	Suitable spring cotter pins for Identification no. 2	⚖
GN 2342-NI-12-80-*-1	12	80	2.5	17	3	5.3	7	9	18.5	23	12	4	4	4.5	-	78
GN 2342-NI-12-80-*-2	12**	80	2.5	17	3	-	7	9	18.5	-	-	-	4	4.5	GN 1024-NI-2-E / ...-D	84
GN 2342-NI-16-32-*-1	16	32	3.5	22	3	5.3	8	9	21	28	15	6	4	4.5	-	62
GN 2342-NI-16-32-*-2	16**	32	3.5	22	3	-	8	9	21	-	-	-	4	4.5	GN 1024-NI-3-E / ...-D	73
GN 2342-NI-16-35-*-1	16	35	3.5	22	3	5.3	8	9	21	28	15	6	4	4.5	-	67
GN 2342-NI-16-35-*-2	16**	35	3.5	22	3	-	8	9	21	-	-	-	4	4.5	GN 1024-NI-3-E / ...-D	77
GN 2342-NI-16-40-*-1	16	40	3.5	22	3	5.3	8	9	21	28	15	6	4	4.5	-	74
GN 2342-NI-16-40-*-2	16**	40	3.5	22	3	-	8	9	21	-	-	-	4	4.5	GN 1024-NI-3-E / ...-D	85
GN 2342-NI-16-45-*-1	16	45	3.5	22	3	5.3	8	9	21	28	15	6	4	4.5	-	82
GN 2342-NI-16-45-*-2	16**	45	3.5	22	3	-	8	9	21	-	-	-	4	4.5	GN 1024-NI-3-E / ...-D	93
GN 2342-NI-16-50-*-1	16	50	3.5	22	3	5.3	8	9	21	28	15	6	4	4.5	-	90
GN 2342-NI-16-50-*-2	16**	50	3.5	22	3	-	8	9	21	-	-	-	4	4.5	GN 1024-NI-3-E / ...-D	101
GN 2342-NI-16-55-*-1	16	55	3.5	22	3	5.3	8	9	21	28	15	6	4	4.5	-	98
GN 2342-NI-16-55-*-2	16**	55	3.5	22	3	-	8	9	21	-	-	-	4	4.5	GN 1024-NI-3-E / ...-D	109
GN 2342-NI-16-60-*-1	16	60	3.5	22	3	5.3	8	9	21	28	15	6	4	4.5	-	106
GN 2342-NI-16-60-*-2	16**	60	3.5	22	3	-	8	9	21	-	-	-	4	4.5	GN 1024-NI-3-E / ...-D	117
GN 2342-NI-16-65-*-1	16	65	3.5	22	3	5.3	8	9	21	28	15	6	4	4.5	-	114
GN 2342-NI-16-65-*-2	16**	65	3.5	22	3	-	8	9	21	-	-	-	4	4.5	GN 1024-NI-3-E / ...-D	125
GN 2342-NI-16-70-*-1	16	70	3.5	22	3	5.3	8	9	21	28	15	6	4	4.5	-	122
GN 2342-NI-16-70-*-2	16**	70	3.5	22	3	-	8	9	21	-	-	-	4	4.5	GN 1024-NI-3-E / ...-D	133
GN 2342-NI-16-80-*-1	16	80	3.5	22	3	5.3	8	9	21	28	15	6	4	4.5	-	138
GN 2342-NI-16-80-*-2	16**	80	3.5	22	3	-	8	9	21	-	-	-	4	4.5	GN 1024-NI-3-E / ...-D	149
GN 2342-NI-16-90-*-1	16	90	3.5	22	3	5.3	8	9	21	28	15	6	4	4.5	-	154
GN 2342-NI-16-90-*-2	16**	90	3.5	22	3	-	8	9	21	-	-	-	4	4.5	GN 1024-NI-3-E / ...-D	164
GN 2342-NI-16-100-*-1	16	100	3.5	22	3	5.3	8	9	21	28	15	6	4	4.5	-	170
GN 2342-NI-16-100-*-2	16**	100	3.5	22	3	-	8	9	21	-	-	-	4	4.5	GN 1024-NI-3-E / ...-D	180
GN 2342-NI-20-40-*-1	20	40	4.5	26	3.5	6.4	10.5	9	24	31	17	6	4	5	-	115
GN 2342-NI-20-40-*-2	20**	40	4.5	26	3.5	-	10.5	9	24	-	-	-	4	5	GN 1024-NI-4-E / ...-D	136
GN 2342-NI-20-45-*-1	20	45	4.5	26	3.5	6.4	10.5	9	24	31	17	6	4	5	-	126
GN 2342-NI-20-45-*-2	20**	45	4.5	26	3.5	-	10.5	9	24	-	-	-	4	5	GN 1024-NI-4-E / ...-D	158
GN 2342-NI-20-50-*-1	20	50	4.5	26	3.5	6.4	10.5	9	24	31	17	6	4	5	-	138
GN 2342-NI-20-50-*-2	20**	50	4.5	26	3.5	-	10.5	9	24	-	-	-	4	5	GN 1024-NI-4-E / ...-D	161
GN 2342-NI-20-55-*-1	20	55	4.5	26	3.5	6.4	10.5	9	24	31	17	6	4	5	-	150
GN 2342-NI-20-55-*-2	20**	55	4.5	26	3.5	-	10.5	9	24	-	-	-	4	5	GN 1024-NI-4-E / ...-D	173
GN 2342-NI-20-60-*-1	20	60	4.5	26	3.5	6.4	10.5	9	24	31	17	6	4	5	-	163
GN 2342-NI-20-60-*-2	20**	60	4.5	26	3.5	-	10.5	9	24	-	-	-	4	5	GN 1024-NI-4-E / ...-D	186
GN 2342-NI-20-65-*-1	20	65	4.5	26	3.5	6.4	10.5	9	24	31	17	6	4	5	-	175
GN 2342-NI-20-65-*-2	20**	65	4.5	26	3.5	-	10.5	9	24	-	-	-	4	5	GN 1024-NI-4-E / ...-D	198
GN 2342-NI-20-70-*-1	20	70	4.5	26	3.5	6.4	10.5	9	24	31	17	6	4	5	-	188
GN 2342-NI-20-70-*-2	20**	70	4.5	26	3.5	-	10.5	9	24	-	-	-	4	5	GN 1024-NI-4-E / ...-D	211
GN 2342-NI-20-80-*-1	20	80	4.5	26	3.5	6.4	10.5	9	24	31	17	6	4	5	-	212
GN 2342-NI-20-80-*-2	20**	80	4.5	26	3.5	-	10.5	9	24	-	-	-	4	5	GN 1024-NI-4-E / ...-D	235
GN 2342-NI-20-90-*-1	20	90	4.5	26	3.5	6.4	10.5	9	24	31	17	6	4	5	-	237
GN 2342-NI-20-90-*-2	20**	90	4.5	26	3.5	-	10.5	9	24	-	-	-	4	5	GN 1024-NI-4-E / ...-D	260
GN 2342-NI-20-100-*-1	20	100	4.5	26	3.5	6.4	10.5	9	24	31	17	6	4	5	-	262
GN 2342-NI-20-100-*-2	20**	100	4.5	26	3.5	-	10.5	9	24	-	-	-	4	5	GN 1024-NI-4-E / ...-D	287

** This type (L) is only available in Identification no. 1

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Stainless Steel-Retaining washers

SPECIFICATION

Types

- Type **E**: with eyelet
- Type **L**: with mounting shackle

Stainless Steel **NI**

- Type E: metal injection, molded, AISI 316 LHC, ground
- Type L: sintered AISI 316 LHC, ground

INFORMATION

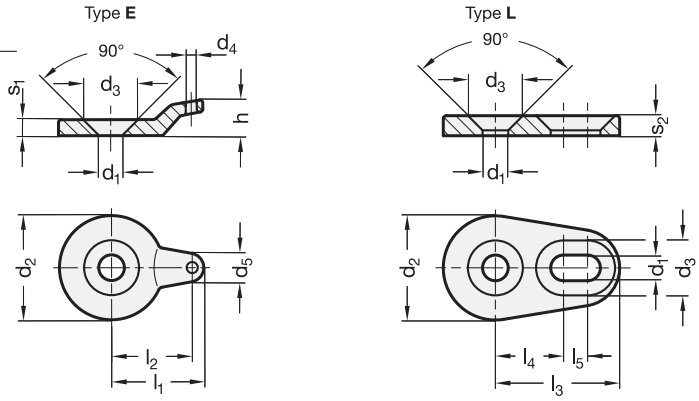
GN 2344 Stainless Steel-Retaining washers are universally usable standard parts.
Type E is suitable for use in connection with retaining cables and ball chains to mount other standard or securing parts in order to prevent loss.
Type L is suitable, for example, for mounting bolts or axes, which can thereby simultaneously be secured in an axial and also in a radial position.

ACCESSORY

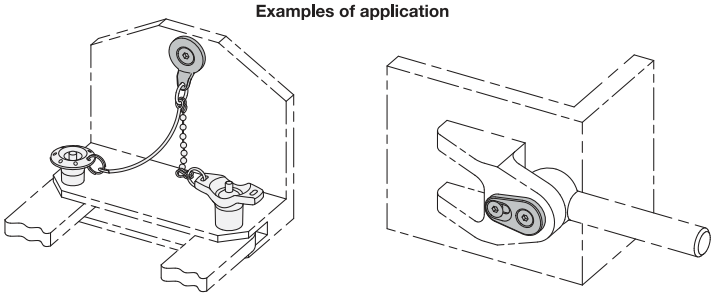
- Ball chains GN 111 (see page 904)
- Stainless Steel-Ball chains GN 111.5 (see page 905)
- Retaining cables GN 111.2 (see page 906)
- Spiral retaining cables GN 111.4 (see page 908)
- Key rings GN 111.3 (see page 903)

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)



Examples of application



GN 2344 — **STAINLESS STEEL**

Description	d1	d2	d3	d4	d5	h	l1	l2	l3	l4	l5	s1	s2	Suitable key rings for type E	⚖
GN 2344-NI-4,3-12-E	4.3	12	9.2	2.5	6	7	13.5	10.8	-	-	-	3	-	Ø14	2
GN 2344-NI-4,3-15-E	4.3	15	9.2	2.5	6.3	7	15	12.3	-	-	-	3	-	Ø14	4
GN 2344-NI-5,3-17-E	5.3	17	11.5	3	7.2	7	18.5	15	-	-	-	4	-	Ø14 | Ø18	7
GN 2344-NI-5,3-22-E	5.3	22	11.5	3	7.5	9	21	17.5	-	-	-	4	-	Ø14 | Ø18	12
GN 2344-NI-6,4-26-E	6.4	26	13.7	3.5	8.1	9	24	20.3	-	-	-	4	-	Ø14 | Ø18 | Ø24	15
GN 2344-NI-4,3-12-L	4.3	12	9.2	-	-	-	-	-	18	10	2	-	4	-	5
GN 2344-NI-4,3-15-L	4.3	15	9.2	-	-	-	-	-	21	11	4	-	4	-	7
GN 2344-NI-5,3-17-L	5.3	17	11.5	-	-	-	-	-	23	12	4	-	4.5	-	10
GN 2344-NI-5,3-22-L	5.3	22	11.5	-	-	-	-	-	28	15	6	-	4.5	-	16
GN 2344-NI-6,4-26-L	6.4	26	13.7	-	-	-	-	-	31	17	6	-	5	-	25

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GN 111.3

Key rings

SPECIFICATION

Stainless Steel

Suitable for ball lock pins and locking pins (see pages 870):

* GN 113.1, GN 113.3, GN 113.4, GN 113.7, GN 113.8, GN 214.2, GN 214.3, GN 214.6 for pins Ø 5, Ø 6, Ø 8

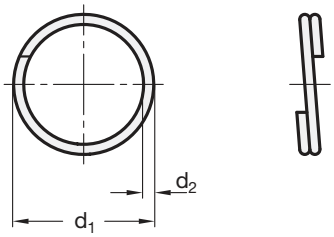
and

* GN 113.5, GN 113.6, GN 114.2, GN 114.3, GN 114.6, GN 124.1, GN 124.2 for all pins

** GN 113.1, GN 113.3, GN 113.4, GN 113.7, GN 113.8, GN 214.2, GN 214.3, GN 214.6 for pins Ø 10, Ø 12, Ø 16, Ø 20

INFORMATION

For ball chains GN 111, Stainless Steel-Ball chaines GN 111.5 (see page 905) retaining cables GN 111.2 (see page 906) and spiral retaining cables GN 111.4 (see page 908) there are single key rings available.
Some sizes can be used as loss protection for ball lock pins and locking pins e.g. in combination with a retaining cable.
Furthermore, key rings have uses in many other areas.



GN 111.3 — STAINLESS STEEL

Description	d1	d2	⚖
GN 111.3-14	14*	1	1
GN 111.3-18	18**	1.3	1
GN 111.3-24	24	1.5	1
GN 111.3-30	30	1.8	4

GN 111.6

Stainless Steel-Retaining rings

SPECIFICATION

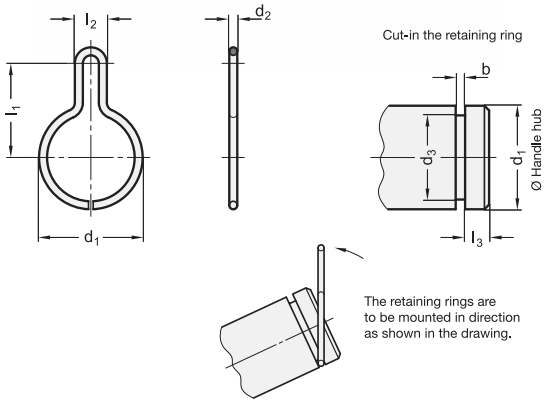
Stainless Steel AISI 301

INFORMATION

Retaining rings GN 111.6 are normally used together with ball chains or retaining cables.
One typical application involves making e.g. knurled screws captive, for instance.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)



GN 111.6 — STAINLESS STEEL

Description	d1	d2	d3 -0.1	b +0.2	l1	l2	l3 +0.3	⚖
GN 111.6-12	12	1.4	9.1	1.7	16	5.6	2.5	1
GN 111.6-14	14	1.5	10.9	1.8	17	6	3.2	1
GN 111.6-15	15	1.5	11.9	1.8	17	6	3.2	1
GN 111.6-16	16	1.5	12.9	1.8	17	6	3.2	1
GN 111.6-17	17	1.6	13.7	1.9	19	6.4	3.9	1
GN 111.6-18	18	1.6	14.7	1.9	19	6.4	3.9	1
GN 111.6-19	19	1.6	15.7	1.9	19	6.4	3.9	1
GN 111.6-20	20	1.6	16.7	1.9	19	6.4	3.9	1
GN 111.6-21	21	1.7	17.5	2	20	6.8	5.1	1
GN 111.6-22	22	1.7	18.5	2	20	6.8	5.1	1
GN 111.6-23	23	1.7	19.5	2	20	6.8	5.1	2
GN 111.6-24	24	1.7	20.5	2	20	6.8	5.1	2
GN 111.6-26	26	1.8	22.3	2.1	21	7.2	5.4	2

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Ball chains

with two key rings

SPECIFICATION

Ball chain
Brass, nickel plated

Key ring
Stainless Steel AISI 301

Suitable for ball lock pins and pins with axial lock (see pages 870):

* GN 113.1, GN 113.3, GN 113.4, GN 113.7, GN 113.8, GN 214.2, GN 214.3, GN 214.6 for pins Ø 5, Ø 6, Ø 8

and

* GN 113.5, GN 113.6, GN 114.2, GN 114.3, GN 114.6, GN 124.1, GN 124.2 for all pins

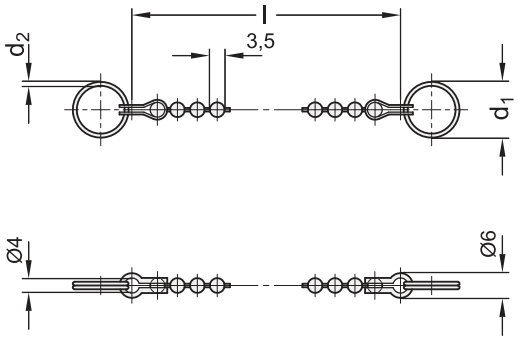
** GN 113.1, GN 113.3, GN 113.4, GN 113.7, GN 113.8, GN 214.2, GN 214.3, GN 214.6 for pins Ø 10, Ø 12, Ø 16, Ø 20

INFORMATION

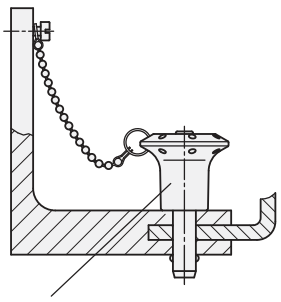
Ball chains GN 111 are mainly used in connection with ball lock pins and pins with axial lock.
The key rings are supplied unmounted. Both rings have the same Ø d_1.
The load values given in the above table at shear stress are theoretically obtained and indicative only.
They are non-binding recommended values and rule out any liability.

ACCESSORY

- Single key rings are supplied with code no. GN 111.3-d_1 (see page 903)



Application example



Locking pins
Ball lock pins

GN 111

Description	l ±3	d1	d2	Static load in N ≈ with key ring	Static load in N ≈ without key ring	⚖
GN 111-200-14	200	14*	1	50	180	7
GN 111-200-18	200	18**	1.3	90	180	9
GN 111-200-24	200	24	1.5	100	180	9
GN 111-200-30	200	30	1.8	120	180	9
GN 111-320-14	320	14*	1	50	180	10
GN 111-320-18	320	18**	1.3	90	180	11
GN 111-320-24	320	24	1.5	100	180	13
GN 111-320-30	320	30	1.8	120	180	15
GN 111-500-14	500	14*	1	50	180	14
GN 111-500-18	500	18**	1.3	90	180	15
GN 111-500-24	500	24	1.5	100	180	15
GN 111-500-30	500	30	1.8	120	180	20
GN 111-1000-14	1000	14*	1	50	180	28
GN 111-1000-18	1000	18**	1.3	90	180	30
GN 111-1000-24	1000	24	1.5	100	180	30
GN 111-1000-30	1000	30	1.8	120	180	32

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GN 111.5

Stainless Steel-Ball chains

with two key rings

SPECIFICATION

Ball chain
Stainless Steel AISI 304

Key ring
Stainless Steel AISI 301

Suitable for ball lock pins and pins with axial lock (see pages 870):

* GN 113.1, GN 113.3, GN 113.4, GN 113.7, GN 113.8, GN 214.2, GN 214.3, GN 214.6 for pins Ø 5, Ø 6, Ø 8

and

* GN 113.5, GN 113.6, GN 114.2, GN 114.3, GN 114.6, GN 124.1, GN 124.2 for all pins

** GN 113.1, GN 113.3, GN 113.4, GN 113.7, GN 113.8, GN 214.2, GN 214.3, GN 214.6 for pins Ø 10, Ø 12, Ø 16, Ø 20

INFORMATION

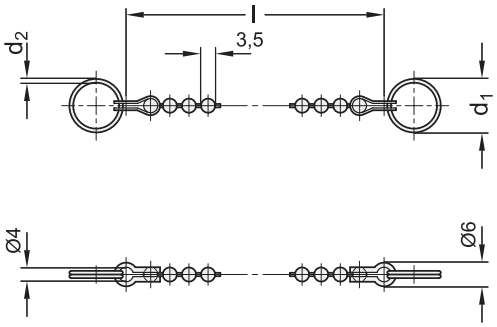
Ball chains GN 111.5 are mainly used in connection with ball lock pins and pins with axial lock.
The key rings are supplied unmounted. Both rings have the same Ø d_1.
The load values given in the above table at shear stress are theoretically obtained and indicative only.
They are non-binding recommended values and rule out any liability.

TECHNICAL INFORMATION

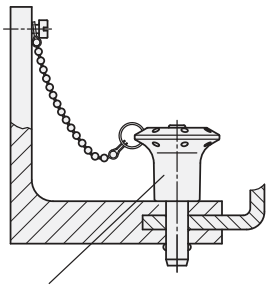
- Stainless Steel characteristics (see page A26)

ACCESSORY

- Single key rings are supplied with code no. GN 111.3-d_1 (see page 903)



Application example



Locking pins
Ball lock pins

GN 111.5 **STAINLESS STEEL**

Description	l ±3	d1	d2	Static load in N ≈ with key ring	Static load in N ≈ without key ring	⚖
GN 111.5-200-14	200	14*	1	50	180	5
GN 111.5-200-18	200	18**	1.3	90	180	10
GN 111.5-200-24	200	24	1.5	100	180	16
GN 111.5-200-30	200	30	1.8	120	180	20
GN 111.5-320-14	320	14*	1	50	180	10
GN 111.5-320-18	320	18**	1.3	90	180	15
GN 111.5-320-24	320	24	1.5	100	180	21
GN 111.5-320-30	320	30	1.8	120	180	25
GN 111.5-500-14	500	14*	1	50	180	10
GN 111.5-500-18	500	18**	1.3	90	180	16
GN 111.5-500-24	500	24	1.5	100	180	18
GN 111.5-500-30	500	30	1.8	120	180	20
GN 111.5-1000-14	1000	14*	1	50	180	18
GN 111.5-1000-18	1000	18**	1.3	90	180	30
GN 111.5-1000-24	1000	24	1.5	100	180	35
GN 111.5-1000-30	1000	30	1.8	120	180	50

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Stainless Steel-Retaining cables

with 2 mounting tabs

SPECIFICATION

Types

- Type **A**: with 2 key rings
- Type **B**: with tab and key ring
- Type **C**: with 2 tabs
- Type **D**: without tab and without key ring

Retaining cable
Stainless Steel A2
coated with clear plastic (PVC)

Tab
Stainless Steel AISI 304

Key ring
Stainless Steel AISI 301

Suitable for ball lock pins and locking pins with axial lock (see pages 870):

* GN 113.1, GN 113.3, GN 113.4, GN 113.7, GN 113.8, GN 214.2, GN 214.3, GN 214.6 for pins Ø 5, Ø 6, Ø 8

and

* GN 113.5, GN 113.6, GN 114.2, GN 114.3, GN 114.6, GN 124.1, GN 124.2 for all pins

** GN 113.1, GN 113.3, GN 113.4, GN 113.7, GN 113.8, GN 214.2, GN 214.3, GN 214.6 for pins Ø 10, Ø 12, Ø 16, Ø 20

INFORMATION

The key rings are supplied fixed to the retaining cable. In Type A, both rings have the same diameter d_1.
The details on static loads are guide values given without warranty.
Type A and B are suitable for ball lock pins and pins with axial lock:

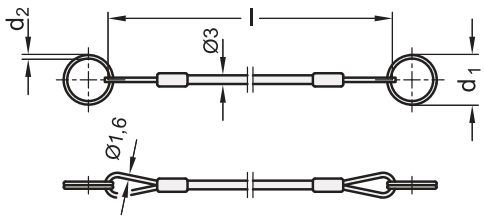
TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)

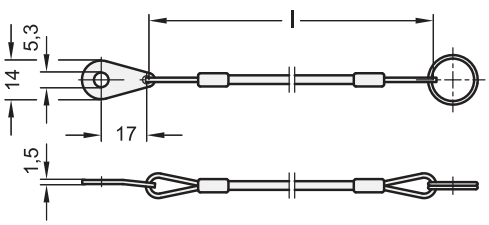
ACCESSORY

- Single key rings are supplied with code no. GN 111.3-d_1 (see page 903)

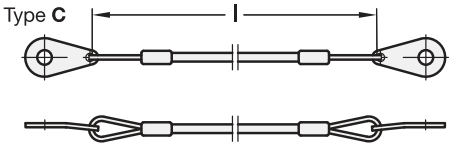
Type **A**



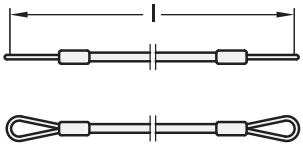
Type **B**



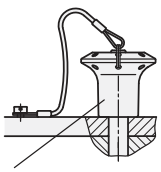
Type **C**



Type **D**



Application example



Locking pins
Ball lock pins

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GN 111.2

STAINLESS STEEL

Description	l	d1	d2	Static load in N ≈ with key ring	Static load in N ≈ without key ring	Static load in N ≈	⚖
GN 111.2-150-14-A	150	14 *	1	50	1800	-	5
GN 111.2-150-18-A	150	18 **	1.3	90	1800	-	7
GN 111.2-150-24-A	150	24	1.5	100	1800	-	8
GN 111.2-150-30-A	150	30	1.8	120	1800	-	12
GN 111.2-200-14-A	200	14 *	1	50	1800	-	6
GN 111.2-200-18-A	200	18 **	1.3	90	1800	-	8
GN 111.2-200-24-A	200	24	1.5	100	1800	-	9
GN 111.2-200-30-A	200	30	1.8	120	1800	-	13
GN 111.2-320-14-A	320	14 *	1	50	1800	-	9
GN 111.2-320-18-A	320	18 **	1.3	90	1800	-	10
GN 111.2-320-24-A	320	24	1.5	100	1800	-	11
GN 111.2-320-30-A	320	30	1.8	120	1800	-	15
GN 111.2-500-14-A	500	14 *	1	50	1800	-	12
GN 111.2-500-18-A	500	18 **	1.3	90	1800	-	14
GN 111.2-500-24-A	500	24	1.5	100	1800	-	15
GN 111.2-500-30-A	500	30	1.8	120	1800	-	20
GN 111.2-150-14-B	150	14 *	1	50	1800	-	7
GN 111.2-150-18-B	150	18 **	1.3	90	1800	-	7
GN 111.2-150-24-B	150	24	1.5	100	1800	-	7
GN 111.2-150-30-B	150	30	1.8	120	1800	-	10
GN 111.2-200-14-B	200	14 *	1	50	1800	-	7
GN 111.2-200-18-B	200	18 **	1.3	90	1800	-	8
GN 111.2-200-24-B	200	24	1.5	100	1800	-	11
GN 111.2-200-30-B	200	30	1.8	120	1800	-	15
GN 111.2-320-14-B	320	14 *	1	50	1800	-	10
GN 111.2-320-18-B	320	18 **	1.3	90	1800	-	11
GN 111.2-320-24-B	320	24	1.5	100	1800	-	12
GN 111.2-320-30-B	320	30	1.8	120	1800	-	16
GN 111.2-500-14-B	500	14 *	1	50	1800	-	13
GN 111.2-500-18-B	500	18 **	1.3	90	1800	-	15
GN 111.2-500-24-B	500	24	1.5	100	1800	-	18
GN 111.2-500-30-B	500	30	1.8	120	1800	-	21
GN 111.2-150-C	150	-	-	-	-	1800	10
GN 111.2-200-C	200	-	-	-	-	1800	10
GN 111.2-320-C	320	-	-	-	-	1800	12
GN 111.2-500-C	500	-	-	-	-	1800	12
GN 111.2-150-D	150	-	-	-	-	1800	4
GN 111.2-200-D	200	-	-	-	-	1800	5
GN 111.2-320-D	320	-	-	-	-	1800	7
GN 111.2-500-D	500	-	-	-	-	1800	10

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Spiral retaining cables

with two key rings

SPECIFICATION

Spriral retaining cable
Plastic (Polyuretan PUR)
black

Fixing loop
Copper, tin-plated

Key rings
Stainless Steel

Suitable for ball lock pins and pins with axial lock (see pages 870) :

* GN 113.1, GN 113.3, GN 113.4, GN 113.7, GN 113.8, GN 214.2, GN 214.3, GN 214.6 for pins Ø 5, Ø 6, Ø 8

and

* GN 113.5, GN 113.6, GN 114.2, GN 114.3, GN 114.6, GN 124.1, GN 124.2 for all pins

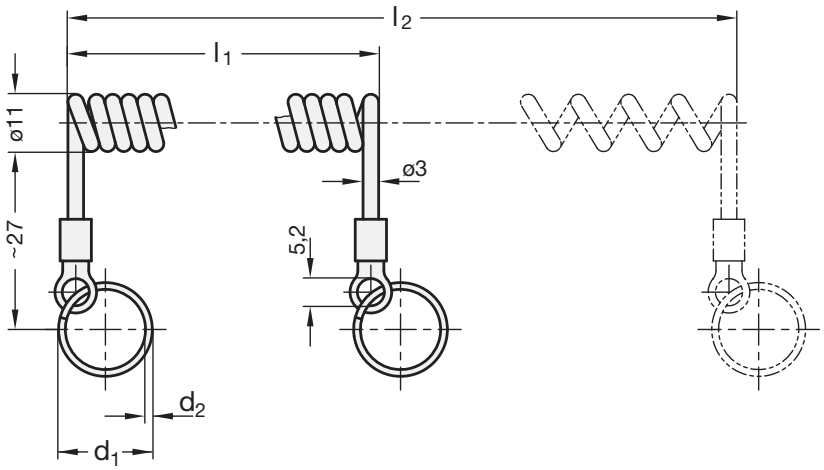
** 113.1, GN 113.3, GN 113.4, GN 113.7, GN 113.8, GN 214.2, GN 214.3, GN 214.6 for pins Ø 10, Ø 12, Ø 16, Ø 20

INFORMATION

Spiral retaining cables GN 111.4 are used in connection with low weight elements e. g. ball lock pins and pins with axial lock.
They are distinguished for a large "useable length".
The key rings are supplied unmounted. Both rings have the same Ø d_1.

ACCESSORY

- Single key rings are supplied with code no. GN 111.3-d_1 (see page 903)



GN 111.4

Description	l_1 ±3	d_1	l_2 max. ≈	d_2	Static load in N ≈ with key ring	Static load in N ≈ without key ring	⚖
GN 111.4-50-14	50	14*	250	1	50	60	10
GN 111.4-50-18	50	18**	250	1.3	60	60	10
GN 111.4-50-24	50	24	250	1.5	60	60	25
GN 111.4-100-14	100	14*	500	1	50	60	11
GN 111.4-100-18	100	18**	500	1.3	60	60	17
GN 111.4-100-24	100	24	500	1.5	60	60	12
GN 111.4-200-14	200	14*	1000	1	50	60	17
GN 111.4-200-18	200	18**	1000	1.3	60	60	17
GN 111.4-200-24	200	24	1000	1.5	60	60	18

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GN 1024

Spring cotter pins

Steel / Stainless Steel

SPECIFICATION

Types

- Type **E**: with single winding
- Type **D**: with double winding

Version in Steel ST
zinc plated, blue passivated

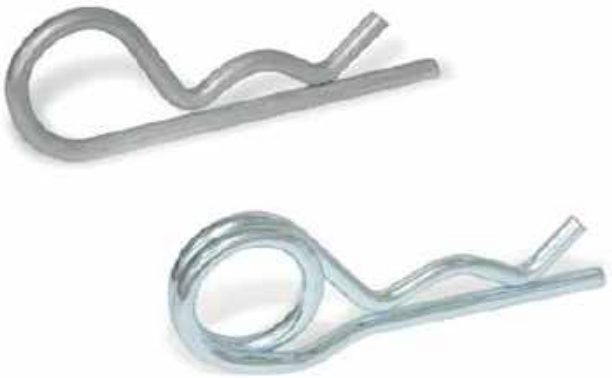
Version in Stainless Steel NI
AISI 303

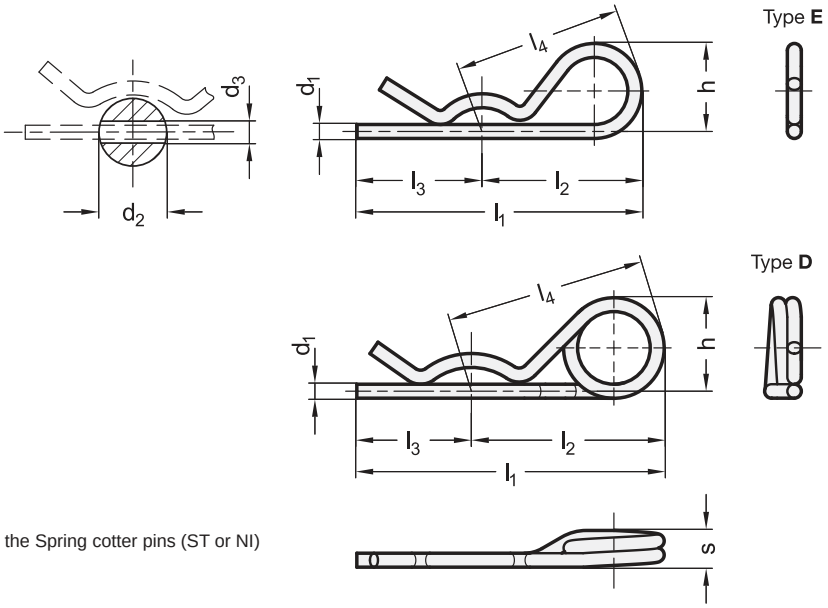
INFORMATION

Spring cotter pins GN 1024 are used for the axial fixing of bolts and axes and as distortion guard, e.g. for crown nuts DIN 935.
Owing to their double winding, spring cotter pins of Type D have a flatter spring characteristic and are therefore easier to install. Also, a retaining rope incldng a key ring can be attached to the double winding to safeguard the spring cotter pins against loss.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)





*Complete with material index of the Spring cotter pins (ST or NI)

ST	NI
Steel	Stainless Steel

GN 1024 — **STAINLESS STEEL**

Description	d1	d2	d3	h	l1	l2	l3	l4	s	Load in N ≈ Mounting	Load in N ≈ Dismantling	Load in N ≈ for bolt Ø	⚖
GN 1024-*-1,5-E	1.5	7 ... 12	2	9	45	25	20	25	-	9	8	8	1
GN 1024-*-2-E	2	9 ... 14	2.5	13	57	32	25	34	-	14	9	12	3
GN 1024-*-3-E	3	10 ... 16	3.5	23	72	42	30	44	-	55	40	16	9
GN 1024-*-4-E	4	16 ... 20	4.5	27	74	44	30	48	-	210	170	20	17
GN 1024-*-5-E	5	20 ... 28	5.5	32	102	57	45	61	-	280	210	25	34
GN 1024-*-6-E	6	28 ... 40	6.5	42	126	73	53	77	-	240	150	30	60
GN 1024-*-2-D	2	8 ... 14	2.5	14	56	31	25	33	5.5	10	9	12	4
GN 1024-*-3-D	3	14 ... 20	3.5	22	73	43	30	47	8	35	28	16	12
GN 1024-*-4-D	4	17 ... 24	4.5	32	94	58	36	62	10.5	50	35	20	29
GN 1024-*-5-D	5	18 ... 30	5.5	35	110	70	40	73	13.5	100	95	25	53
GN 1024-*-6-D	6	24 ... 36	6.5	41	142	85	57	90	16	190	125	30	93
GN 1024-*-7-D	7**	26 ... 40	7.5	42	152	92	60	96	19	350	210	40	135

** only available in steel

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DESIGNED
FOR ENGINEERING

10 Joints

Joints

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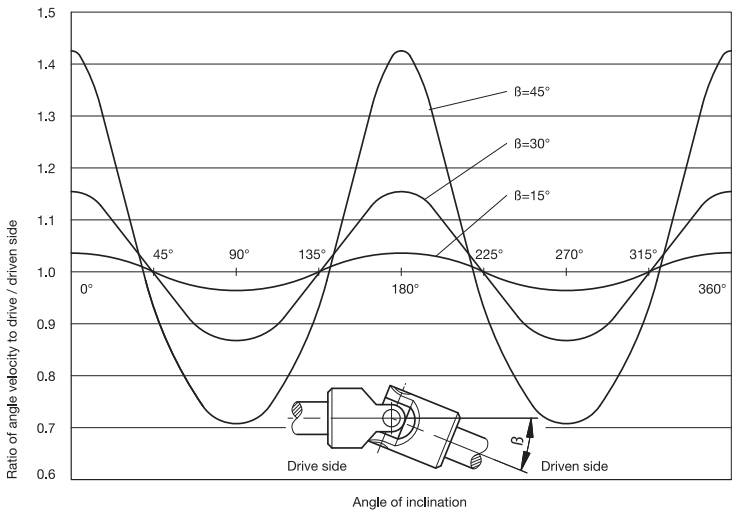
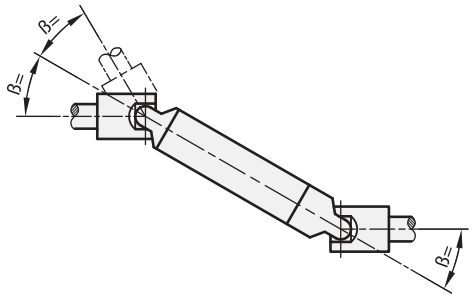
Universal joints and universal joint shafts

Mounting information

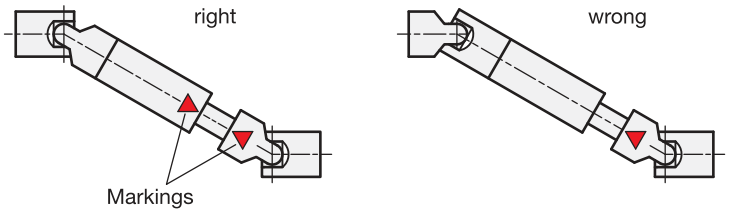


The single universal joints transfer the initial smooth rotation as an irregular rotation. One revolution of the drive shaft via single universal joint will cause the driven shaft to accelerate and decelerate twice. The extent of the irregularity depends on the operating angle ß.

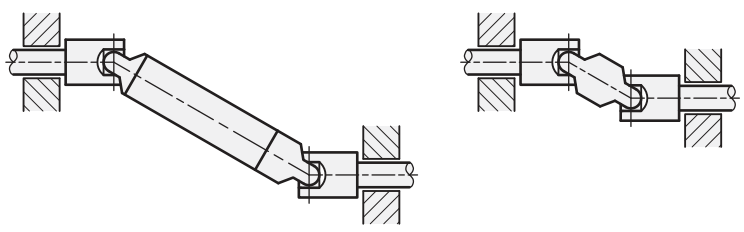
In order to obtain a smooth rotation of the driven shaft two single or one double universal joint is required. In such cases where minor irregularities in the movement are acceptable or where minor operating angles are the norm a single universal joint will do.



For a smooth transfer of a rotating speed, the angle of inclination ß must be equal at both ends of the connecting shaft.



Due to a misconnection of the universal joint shafts, the irregular rotation of each joint is not compensated, but strengthened. This allows joint bearings and wedge profiles to be destroyed. For this reason, the markings of the universal joint shaft halves have to be opposite to each other.



Furthermore the bearings must be as close as possible to the universal joints.

For continuous operation of universal joints with friction bearings adequate lubrication is essential. If drip lubrication is not possible they should be lubricated at least once a day. It is also possible to fit the universal joint with a gaiter GN 808.1 (see page 1131) which can be filled with oil or grease

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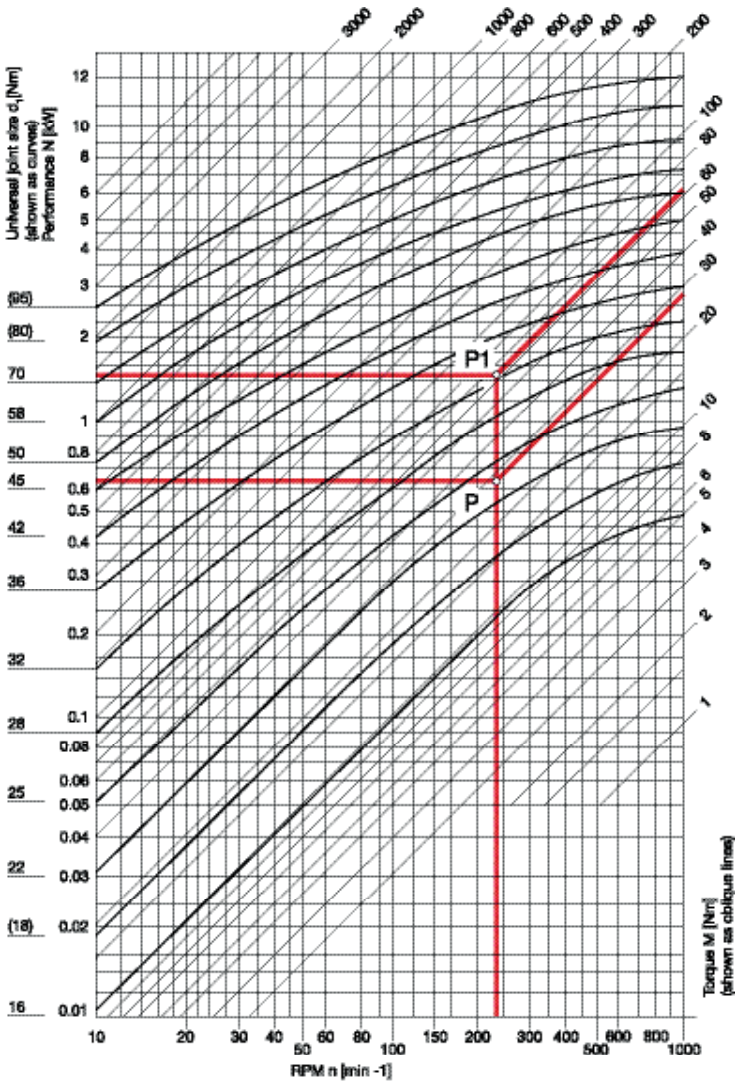
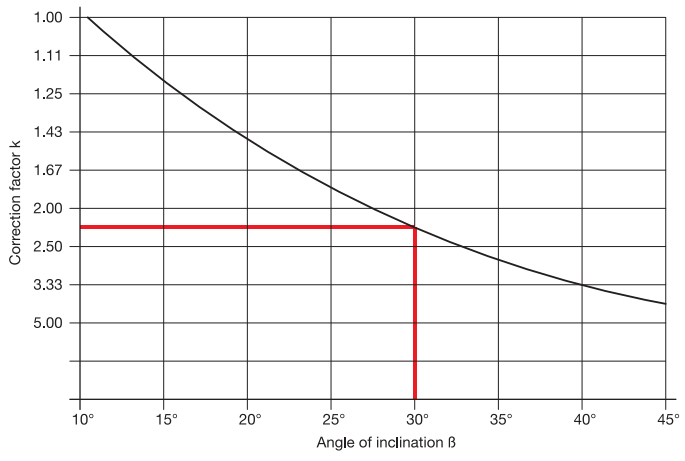
Universal joints with friction bearing, Type EG

Selection of the size





The table shows the transferable output N and/or torques M of universal joints DIN 808, type EG (single friction bearing) in relation to the r.p.m. n.

The values are only applicable to a constant speed of rotation, constant load and an operating inclination angle of max. 10°. They are not applicable to universal joints in Stainless Steel.

For larger inclination angles ß a nominal output N increased by the correction coefficient k and/or a nominal torque M has to be selected (see example below).

Conversion formulae:

$$\text{Torque M [Nm]} = 9550 \frac{\text{N [kW]}}{\text{n [min}^{-1}\text{]}}$$

$$\text{Output N [kW]} = \frac{\text{M [Nm] x n [min}^{-1}\text{]}}{9550}$$

1 kW = 1.36 PS 1 PS = 0.736 kW

Example 1

Output to be transferred N = 0.65 kW
R.p.m. n = 230 min^{-1}
Angle of inclination ß = 10°

Correction coefficient k = 1
Indicative output N = Nominal output N

Intersection point P is arrived at from 0.65 kW and 230 min^{-1} (which corresponds to a torque of 27 Nm).

The next size up universal joint corresponding to point P is the model with a diameter d1 = 25.

Example 2

Torque to be transferred M = 27 Nm
R.p.m. n = 230 min^{-1}
Angle of inclination ß = 30°

Correction coefficient k = 2.25
Indicative torque = 2.25 x 27 Nm = 60 Nm

Intersection point P1 is arrived at from 61 Nm and 230 min^{-1} (which is equivalent to an indicative output N = 1.47 kW).

The next size up universal joint corresponding to P1 is the model with a diameter d1 = 36.

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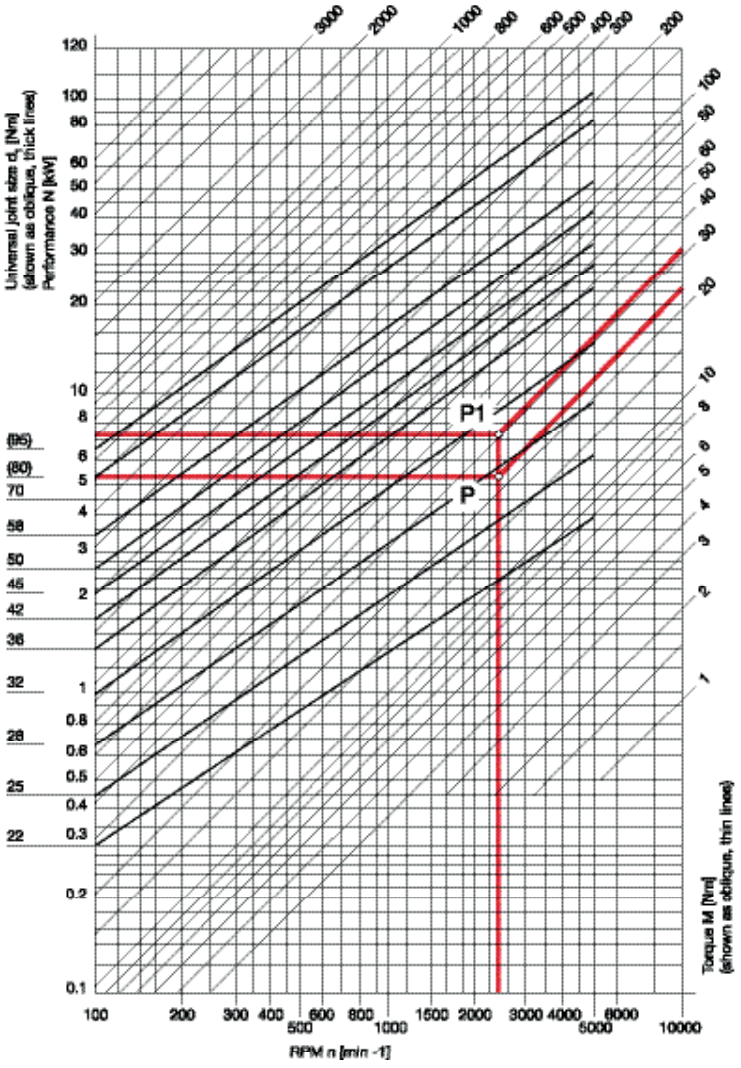
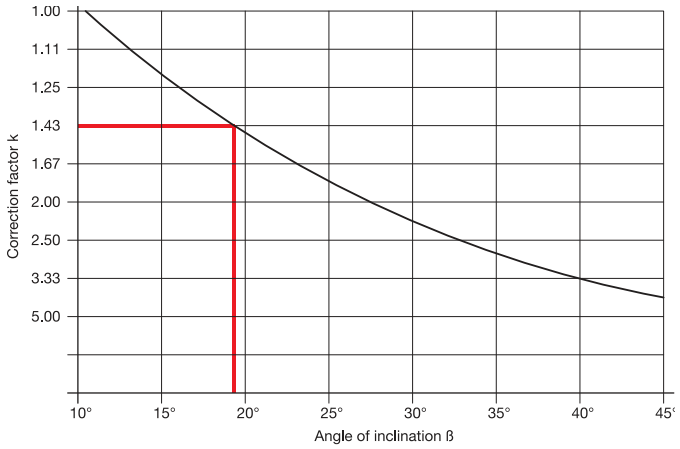
Universal joints with needle bearing, Type EW

Selection of the size





The table shows the transferable output N and/or torques M of universal joints DIN 808, type EW (single needle bearing) in relation to the r.p.m. n.

The values are only applicable to a constant speed of rotation, constant load and an operating inclination angle of max. 10°.

For larger inclination angles ß a nominal output N increased by the correction coefficient k and/or a nominal torque M has to be selected (see example below).

Conversion formulae:

$$\text{Torque M [Nm]} = 9550 \frac{\text{N [kW]}}{\text{n [min}^{-1}\text{]}}$$

$$\text{Output N [kW]} = \frac{\text{M [Nm]} \times \text{n [min}^{-1}\text{]}}{9550}$$

1 kW = 1.36 PS 1 PS = 0.736 kW

Example 1

Torque to be transferred N = 5.5 kW
R.p.m. n = 2300 min^{-1}
Angle of inclination ß = 10°

Correction coefficient k = 1
Indicative output N = Nominal output N

Intersection point P is arrived at from 5.5 kW and 2300 min^{-1} (which corresponds to a torque of 23 Nm).

The next size up universal joint corresponding to point P is the model with a diameter d1 = 28.

Example 2

Torque to be transferred M = 23 Nm
R.p.m. n = 2300 min^{-1}
Angle of inclination ß = 18°

Correction coefficient k = 1.43
Indicative torque = 1.43 x 23 Nm = 33 Nm

Intersection point P1 is arrived at from 33 Nm and 2300 min^{-1} (which is equivalent to an indicative output N = 7.9 kW).

The next size up universal joint corresponding to P1 is the model with a diameter d1 = 32.

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Universal joints

Steel / Stainless Steel, single or double

SPECIFICATION

Universal joints with friction bearing

Version in Steel

Types

- Type **EG**: single, friction bearing
- Type **DG**: double, friction bearing

Bore codes

- Version **B**: without keyway
- Version **K**: with keyway
- Version **V**: with square

Steel
blank

Joint bearing areas / pins / bearing sleeves
case hardened

Version in Stainless Steel

Types

- Type **EG**: single, friction bearing
- Type **DG**: double, friction bearing

Bore code

- Version **B**: without keyway
- Version **K**: with keyway
- Version **V**: with square

Stainless Steel AISI 304 **NI**

Universal joints with needle bearing

Types

- Type **EW**: single, needle bearing
- Type **DW**: double, needle bearing

Bore codes

- Version **B**: without keyway
- Version **K**: with keyway
- Version **V**: with square

Steel
blank

Joints bearing areas, pins
case hardened

INFORMATION

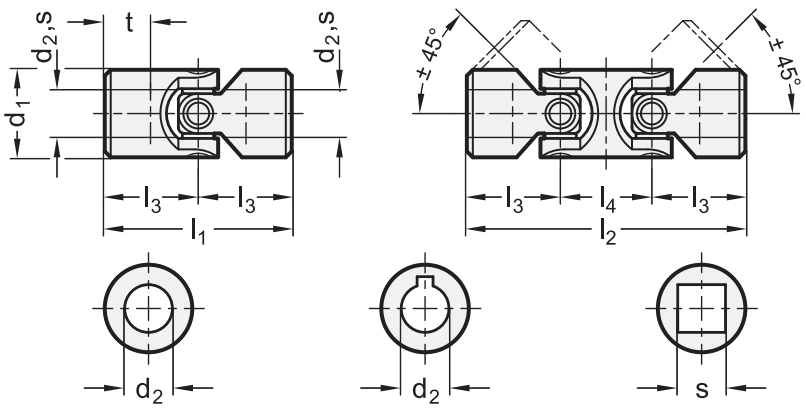
The permissible r.p.m. of universal joints with friction bearing DIN 808 is to a large extent dependent on the type of application such as load, duration, angular disposition as well as lubrication . For over 1000 r.p.m. universal joints with needle bearing should be used For continuous use ample lubrication is essential. This achieved by fitting the joint with a grease filled gaiter GN 808.1 (see page 1131).

ON REQUEST

- with other or unequal bores

TECHNICAL INFORMATION

- Permissible r.p.m. and torque (see page 1124)
- Keyway DIN 6885 (see page A16)
- Cross holes GN 110.1 (see page A18)
- Stainless Steel characteristics (see page A26)
- ISO-Fundamental Tolerances (see page A21)



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DIN 808-friction bearing

Description	d1	d2 H7	l1	l2	l3	l4	t+1 max. assembly length of the shaft	⚖
DIN 808-16-B6-34-EG	16	B 6	34	-	17	22	8	40
DIN 808-16-B6-56-DG	16	B 6	-	56	17	22	8	60
DIN 808-16-B8-40-EG	16	B 8	40	-	20	22	11	40
DIN 808-16-B8-62-DG	16	B 8	-	62	20	22	11	65
DIN 808-16-B10-52-EG	16	B 10	52	-	26	22	14	49
DIN 808-16-B10-74-DG	16	B 10	-	74	26	22	14	70
DIN 808-22-B10-48-EG	22	B 10	48	-	24	26	12	95
DIN 808-22-B10-74-DG	22	B 10	-	74	24	26	12	145
DIN 808-22-B12-62-EG	22	B 12	62	-	31	26	18	119
DIN 808-22-B12-88-DG	22	B 12	-	88	31	26	18	167
DIN 808-25-B12-56-EG	25	B 12	56	-	28	30	13	147
DIN 808-25-B12-86-DG	25	B 12	-	86	28	30	13	220
DIN 808-25-B16-74-EG	25	B 16	74	-	37	30	21	140
DIN 808-25-B16-105-DG	25	B 16	-	104	37	30	21	185
DIN 808-28-B14-60-EG	28	B 14	60	-	30	36	13	195
DIN 808-28-B14-96-DG	28	B 14	-	96	30	36	13	286
DIN 808-32-B16-68-EG	32	B 16	68	-	34	37	16	324
DIN 808-32-B16-105-DG	32	B 16	-	105	34	37	16	430
DIN 808-32-B20-86-EG	32	B 20	86	-	43	38	24	382
DIN 808-32-B20-124-DG	32	B 20	-	124	43	38	24	462
DIN 808-36-B18-74-EG	36	B 18	74	-	37	40	17	565
DIN 808-36-B18-114-DG	36	B 18	-	114	37	40	17	599
DIN 808-42-B20-82-EG	42	B 20	82	-	41	46	18	700
DIN 808-42-B20-128-DG	42	B 20	-	128	41	46	18	895
DIN 808-42-B25-108-EG	42	B 25	108	-	54	48	31	781
DIN 808-42-B25-156-DG	42	B 25	-	156	54	48	31	1035
DIN 808-45-B22-95-EG	45	B 22	95	-	47.5	50	22	1137
DIN 808-45-B22-145-DG	45	B 22	-	145	47.5	50	22	2220
DIN 808-50-B25-108-EG	50	B 25	108	-	54	55	26	1248
DIN 808-50-B25-163-DG	50	B 25	-	163	54	55	26	1620
DIN 808-50-B30-132-EG	50	B 30	132	-	66	56	38	1660
DIN 808-50-B30-188-DG	50	B 30	-	188	66	56	38	1248
DIN 808-58-B30-122-EG	58	B 30	122	-	61	68	29	1724
DIN 808-58-B30-190-DG	58	B 30	-	190	61	68	29	2528
DIN 808-58-B32-130-EG	58	B 32	130	-	65	68	33	1724
DIN 808-58-B32-198-DG	58	B 32	-	198	65	68	33	2619
DIN 808-70-B35-140-EG	70*	B 35	140	-	70	72	35	278
DIN 808-70-B35-212-DG	70*	B 35	-	212	70	72	35	375
DIN 808-16-K6-34-EG	16	K 6	34	-	17	22	8	39
DIN 808-16-K6-56-DG	16	K 6	-	56	17	22	8	62
DIN 808-16-K8-40-EG	16	K 8	40	-	20	22	11	40
DIN 808-16-K8-62-DG	16	K 8	-	62	20	22	11	65
DIN 808-16-K10-52-EG	16	K 10	52	-	26	22	14	47
DIN 808-16-K10-74-DG	16	K 10	-	74	26	22	14	69
DIN 808-22-K10-48-EG	22	K 10	48	-	24	26	12	96
DIN 808-22-K10-74-DG	22	K 10	-	74	24	26	12	144
DIN 808-22-K12-62-EG	22	K 12	62	-	31	26	18	118
DIN 808-22-K12-88-DG	22	K 12	-	88	31	26	18	157
DIN 808-25-K12-56-EG	25	K 12	56	-	28	30	13	163
DIN 808-25-K12-86-DG	25	K 12	-	86	28	30	13	222
DIN 808-25-K16-74-EG	25	B 16	74	-	37	30	21	163
DIN 808-25-K16-105-DG	25	B 16	-	104	37	30	21	222
DIN 808-28-K14-60-EG	28	B 14	60	-	30	36	13	185
DIN 808-28-K14-96-DG	28	K 14	-	96	30	36	13	285
DIN 808-32-K16-68-EG	32	K 16	68	-	34	37	16	283
DIN 808-32-K16-105-DG	32	K 16	-	105	34	37	16	426
DIN 808-32-K20-86-EG	32	K 20	86	-	43	38	24	317
DIN 808-32-K20-124-DG	32	K 20	-	124	43	38	24	460

* not available from stock, requires a minimum order quantity

DIN 808-friction bearing

Description	d1	d2 H7	s H10	l1	l2	l3	l4	t+1 max. assembly length of the shaft	⚖
DIN 808-36-K18-74-EG	36	K 18	-	74	-	37	40	17	375
DIN 808-36-K18-114-DG	36	K 18	-	-	114	37	40	17	565
DIN 808-42-K20-82-EG	42	K 20	-	82	-	41	46	18	595
DIN 808-42-K20-128-DG	42	K 20	-	-	128	41	46	18	905
DIN 808-42-K25-108-EG	42	K 25	-	108	-	54	48	31	715
DIN 808-42-K25-156-DG	42	K 25	-	-	156	54	48	31	1026
DIN 808-45-K22-95-EG	45	K 22	-	95	-	47.5	50	22	773
DIN 808-45-K22-145-DG	45	K 22	-	-	145	47.5	50	22	1121
DIN 808-50-K25-108-EG	50	K 25	-	108	-	54	55	26	1098
DIN 808-50-K25-163-DG	50	K 25	-	-	163	54	55	26	1600
DIN 808-50-K30-132-EG	50	K30	-	132	-	66	56	38	1241
DIN 808-50-K30-188-DG	50	K 30	-	-	188	66	56	38	17557
DIN 808-58-K30-122-EG	58	K 30	-	122	-	61	68	29	1646
DIN 808-58-K30-190-DG	58	K 30	-	-	190	61	68	29	2507
DIN 808-58-K32-130-EG	58	K 32	-	130	-	65	68	33	1703
DIN 808-58-K32-198-DG	58	K 32	-	-	198	65	68	33	2598
DIN 808-70-K35-140-EG	70*	K 35	-	140	-	70	72	35	40
DIN 808-70-K35-212-DG	70*	K 35	-	-	212	70	72	35	60
DIN 808-16-V6-34-EG	16	-	V 6*	34	-	17	22	8	40
DIN 808-16-V6-56-DG	16	-	V 6*	-	56	17	22	8	64
DIN 808-16-V8-40-EG	16	-	V 8*	40	-	20	22	11	56
DIN 808-16-V8-62-DG	16	-	V 8*	-	62	20	22	11	75
DIN 808-16-V8-52-EG	16	-	V 8*	52	-	26	22	14	100
DIN 808-16-V8-74-DG	16	-	V 8*	-	74	26	22	14	142
DIN 808-22-V10-48-EG	22	-	V 10*	48	-	24	26	12	123
DIN 808-22-V10-74-DG	22	-	V 10*	-	74	24	26	12	178
DIN 808-22-V10-62-EG	22	-	V 10*	62	-	31	26	18	145
DIN 808-22-V10-88-DG	22	-	V 10*	-	88	31	26	18	215
DIN 808-25-V12-56-EG	25	-	V 12*	56	-	28	30	13	189
DIN 808-25-V12-86-DG	25	-	V 12*	-	86	28	30	13	215
DIN 808-25-V12-74-EG	25	-	V 12*	74	-	37	30	21	230
DIN 808-25-V12-105-DG	25	-	V 12*	-	104	34	30	21	275
DIN 808-28-V14-60-EG	28	-	V 14*	60	-	30	36	13	348
DIN 808-28-V14-96-DG	28	-	V 14*	-	96	30	36	13	420
DIN 808-32-V16-68-EG	32	-	V 16*	68	-	34	37	16	274
DIN 808-32-V16-105-DG	32	-	V 16*	-	105	34	37	16	420
DIN 808-32-V16-86-EG	32	-	V 16*	86	-	43	38	24	274
DIN 808-32-V16-124-DG	32	-	V 16*	-	124	43	38	24	488
DIN 808-36-V18-74-EG	36	-	V 18*	74	-	37	40	17	366
DIN 808-36-V18-114-DG	36	-	V 18*	-	114	37	40	17	536
DIN 808-42-V20-82-EG	42	-	V 20*	82	-	41	46	18	580
DIN 808-42-V20-128-DG	42	-	V 20*	-	128	41	46	18	743
DIN 808-42-V20-108-EG	42	-	V 20*	108	-	54	48	31	774
DIN 808-42-V20-156-DG	42	-	V 20*	-	156	54	48	31	1009
DIN 808-45-V22-95-EG	45	-	V 22*	95	-	47.5	50	22	1000
DIN 808-45-V22-145-DG	45	-	V 22*	-	145	47.5	50	22	1009
DIN 808-50-V25-108-EG	50	-	V 25*	108	-	54	55	26	1025
DIN 808-50-V25-163-DG	50	-	V 25*	-	163	54	55	26	1565
DIN 808-50-V25-132-EG	50	-	V 25*	132	-	66	56	38	1050
DIN 808-50-V25-188-DG	50	-	V 25*	-	188	66	56	38	1790
DIN 808-58-V30-122-EG	58	-	V 30*	122	-	61	68	29	1565
DIN 808-58-V30-190-DG	58	-	V 30*	-	190	61	68	29	2420
DIN 808-58-V30-130-EG	58	-	V 30*	130	-	65	68	33	1600
DIN 808-58-V30-198-DG	58	-	V 30*	-	198	65	68	33	2500
DIN 808-70-V35-140-EG	70*	-	V 35*	140	-	70	72	35	2650
DIN 808-70-V35-212-DG	70*	-	V 35*	-	212	70	72	35	2800

* not available from stock, requires a minimum order quantity

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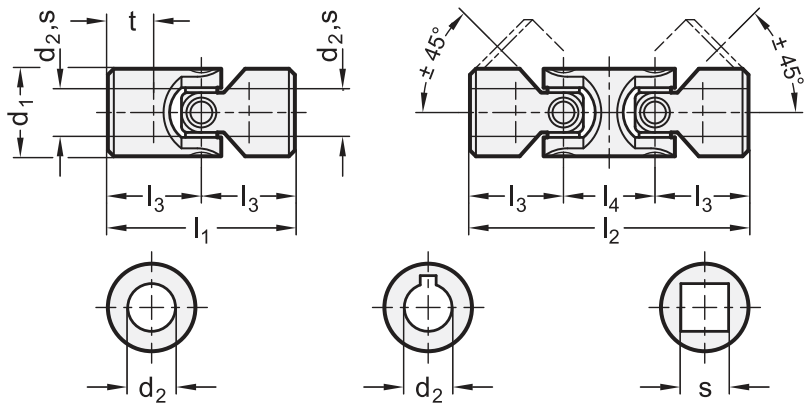
DIN 808 | Universal joints



DIN 808-NI friction bearing — **STAINLESS STEEL**

Description	d1	d2 H7	s H10	l1	l2	l3	l4	t+1 max. assembly length of the shaft	⚖
DIN 808-16-B6-34-EG-NI	16	B 6	-	34	-	54	22	8	40
DIN 808-16-B6-56-DG-NI	16	B 6	-	-	56	54	22	8	60
DIN 808-16-B8-40-EG-NI	16	B 8	-	40	-	66	22	11	33
DIN 808-16-B8-62-DG-NI	16	B 8	-	-	62	66	22	11	65
DIN 808-22-B10-48-EG-NI	22	B 10	-	48	-	61	26	12	100
DIN 808-22-B10-74-DG-NI	22	B 10	-	-	74	61	26	12	150
DIN 808-25-B12-56-EG-NI	25	B 12	-	56	-	65	30	13	150
DIN 808-25-B12-86-DG-NI	25	B 12	-	-	86	65	30	13	225
DIN 808-32-B16-68-EG-NI	32	B 16	-	68	-	70	36	16	290
DIN 808-32-B16-105-DG-NI	32	B 16	-	-	105	70	37	16	144
DIN 808-42-B20-82-EG-NI	42	B 20	-	82	-	24	46	18	600
DIN 808-42-B20-128-DG-NI	42	B 20	-	-	128	24	46	18	919
DIN 808-50-B25-108-EG-NI	50	B 25	-	108	-	31	55	26	1130
DIN 808-50-B25-163-DG-NI	50	B 25	-	-	163	31	55	26	1620
DIN 808-16-K6-34-EG-NI	16	K 6	-	34	-	28	22	8	38
DIN 808-16-K6-56-DG-NI	16	K 6	-	-	56	28	22	8	65
DIN 808-16-K8-40-EG-NI	16	K 8	-	40	-	37	22	11	40
DIN 808-16-K8-62-DG-NI	16	K 8	-	-	62	37	22	11	65
DIN 808-22-K10-48-EG-NI	22	K 10	-	48	-	30	26	12	97
DIN 808-22-K10-74-DG-NI	22	K 10	-	-	74	30	26	12	144
DIN 808-25-K12-56-EG-NI	25	K 12	-	56	-	34	30	13	146
DIN 808-25-K12-86-DG-NI	25	K 12	-	-	86	34	30	13	219
DIN 808-32-K16-68-EG-NI	32	K 16	-	68	-	43	36	16	289
DIN 808-32-K16-105-DG-NI	32	K 16	-	-	105	43	36	16	427
DIN 808-42-K20-82-EG-NI	42	K 20	-	82	-	37	46	18	598
DIN 808-42-K20-128-DG-NI	42	K 20	-	-	128	37	46	18	900
DIN 808-50-K25-108-EG-NI	50	K 25	-	108	-	41	55	26	1098
DIN 808-50-K25-163-DG-NI	50	K 25	-	-	163	41	55	26	1628
DIN 808-16-V6-34-EG-NI	16	-	V6*	34	-	54	22	8	40
DIN 808-16-V6-56-DG-NI	16	-	V6*	-	56	54	22	8	60
DIN 808-16-V8-40-EG-NI	16	-	V8*	40	-	47.5	22	11	40
DIN 808-16-V8-62-DG-NI	16	-	V8*	-	62	47.5	22	11	64
DIN 808-22-V10-48-EG-NI	22	-	V10*	48	-	54	26	12	100
DIN 808-22-V10-74-DG-NI	22	-	V10*	-	74	54	26	12	145
DIN 808-25-V12-56-EG-NI	25	-	V12*	56	-	66	30	13	140
DIN 808-25-V12-86-EG-NI	25	-	V12*	-	86	66	30	13	219
DIN 808-32-V16-68-EG-NI	32	-	V16*	68	-	61	36	16	274
DIN 808-32-V16-105-EG-NI	32	-	V16*	-	105	61	36	16	427
DIN 808-42-V20-82-EG-NI	42	-	V20*	82	-	65	46	18	570
DIN 808-42-V20-128-EG-NI	42	-	V20*	-	128	65	46	18	886
DIN 808-50-V25-108-EG-NI	50	-	V25*	108	-	70	55	26	1065
DIN 808-50-V25-163-EG-NI	50	-	V25*	-	163	70	55	26	1400

* not available from stock, requires a minimum order quantity

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DIN 808-needle bearing

Description	d1	d2 H7	l1	l2	l3	l4	t+1 max. assembly length of the shaft	⚖
DIN 808-22-B10-48-EW	22	B 10	48	-	17	26	12	95
DIN 808-22-B10-74-DW	22	B 10	-	74	17	26	12	140
DIN 808-22-B12-62-EW	22	B 12	62	-	20	26	18	118
DIN 808-22-B12-88-DW	22	B 12	-	88	20	26	18	170
DIN 808-25-B12-56-EW	25	B 12	56	-	24	30	13	145
DIN 808-25-B12-86-DW	25	B 12	-	86	24	30	13	216
DIN 808-25-B16-74-EW	25	B 16	74	-	28	30	21	165
DIN 808-25-B16-105-DW	25	B 16	-	104	28	30	21	183
DIN 808-28-B14-60-EW	28	B 14	60	-	34	36	13	183
DIN 808-28-B14-96-DW	28	B 14	-	96	34	36	13	284
DIN 808-32-B16-68-EW	32	B 16	68	-	41	37	16	424
DIN 808-32-B16-105-DW	32	B 16	-	105	41	37	16	320
DIN 808-32-B20-86-EW	32	B 20	86	-	54	38	24	320
DIN 808-32-B20-124-DW	32	B 20	-	124	54	38	24	461
DIN 808-36-B18-74-EW	36	B 18	74	-	17	40	17	378
DIN 808-36-B18-114-DW	36	B 18	-	114	17	40	17	554
DIN 808-42-B20-82-EW	42	B 20	82	-	20	46	18	450
DIN 808-42-B20-128-DW	42	B 20	-	128	20	46	18	898
DIN 808-42-B25-108-EW	42	B 25	108	-	24	48	31	718
DIN 808-42-B25-156-DW	42	B 25	-	156	24	48	31	1025
DIN 808-45-B22-95-EW	45	B 22	95	-	28	50	22	771
DIN 808-45-B22-145-DW	45	B 22	-	145	28	50	22	1125
DIN 808-50-B25-108-EW	50	B 25	108	-	34	55	26	1095
DIN 808-50-B25-163-DW	50	B 25	-	163	34	55	26	1594
DIN 808-50-B30-132-EW	50	B 30	132	-	41	56	38	1234
DIN 808-50-B30-188-DW	50	B 30	-	188	41	56	38	1751
DIN 808-58-B30-122-EW	58	B 30	122	-	54	68	29	1633
DIN 808-58-B30-190-DW	58	B 30	-	190	54	68	29	2496
DIN 808-58-B32-130-EW	58	B 32	130	-	17	68	33	1723
DIN 808-58-B32-198-DW	58	B 32	-	198	17	68	33	2532
DIN 808-70-B35-140-EW	70*	B 35	140	-	20	72	35	2600
DIN 808-70-B35-212-DW	70*	B 35	-	212	20	72	35	3200
DIN 808-22-K10-48-EW	22	K 10	48	-	24	26	12	95
DIN 808-22-K10-74-DW	22	K 10	-	74	24	26	12	141
DIN 808-22-K12-62-EW	22	K 12	62	-	28	26	18	116
DIN 808-22-K12-88-DW	22	K 12	-	88	28	26	18	163
DIN 808-25-K12-56-EW	25	K 12	56	-	34	30	13	142
DIN 808-25-K12-86-DW	25	K 12	-	86	34	30	13	212
DIN 808-25-K16-74-EW	25	K 16	74	-	41	30	21	162
DIN 808-25-K16-105-DW	25	K 16	-	104	41	30	21	180
DIN 808-28-K14-60-EW	28	K 14	60	-	54	36	13	180
DIN 808-28-K14-96-DW	28	K 14	-	96	54	36	13	280
DIN 808-32-K16-68-EW	32	K 16	68	-	24	37	16	280

* not available from stock, requires a minimum order quantity

DIN 808-needle bearing

Description	d1	d2 H7	s H10	l1	l2	l3	l4	t+1 max. assembly length of the shaft	⚖
DIN 808-32-K16-105-DW	32	K 16	-	-	105	24	37	16	417
DIN 808-32-K20-86-EW	32	K 20	-	86	-	31	38	24	313
DIN 808-32-K20-124-DW	32	K 20	-	-	124	31	38	24	458
DIN 808-36-K18-74-EW	36	K 18	-	74	-	28	40	17	373
DIN 808-36-K18-114-DW	36	K 18	-	-	114	28	40	17	558
DIN 808-42-K20-82-EW	42	K 20	-	82	-	37	46	18	559
DIN 808-42-K20-128-DW	42	K 20	-	-	128	37	46	18	889
DIN 808-42-K25-108-EW	42	K 25	-	108	-	30	48	31	703
DIN 808-42-K25-156-DW	42	K 25	-	-	156	30	48	31	1006
DIN 808-45-K22-95-EW	45	K 22	-	95	-	34	50	22	771
DIN 808-45-K22-145-DW	45	K 22	-	-	145	34	50	22	1117
DIN 808-50-K25-108-EW	50	K 25	-	108	-	43	55	26	1085
DIN 808-50-K25-163-DW	50	K 25	-	-	163	43	55	26	1590
DIN 808-50-K30-132-EW	50	K 30	-	132	-	37	56	38	1229
DIN 808-50-K30-188-DW	50	K 30	-	-	188	37	56	38	1714
DIN 808-58-K30-122-EW	58	K 30	-	122	-	41	68	29	1631
DIN 808-58-K30-190-DW	58	K 30	-	-	190	41	68	29	2531
DIN 808-58-K32-130-EW	58	K 32	-	130	-	54	68	33	1718
DIN 808-58-K32-198-DW	58	K 32	-	-	198	54	68	33	2541
DIN 808-70-K35-140-EW	70*	K 35	-	140	-	47.5	72	35	1920
DIN 808-70-K35-212-DW	70*	K 35	-	-	212	47.5	72	35	2760
DIN 808-22-V10-48-EW	22	-	V10*	48	-	54	26	12	91
DIN 808-22-V10-74-DW	22	-	V10*	-	74	54	26	12	141
DIN 808-25-V12-56-EW	25	-	V12*	56	-	61	30	13	91
DIN 808-25-V12-86-DW	25	-	V12*	-	86	61	30	13	208
DIN 808-28-V14-60-EW	28	-	V14*	60	-	70	36	13	174
DIN 808-28-V14-96-DW	28	-	V14*	-	96	70	36	13	287
DIN 808-32-V16-68-EW	32	-	V16*	68	-	24	37	16	174
DIN 808-32-V16-105-DW	32	-	V16*	-	104	24	37	16	414
DIN 808-36-V18-74-EW	36	-	V18*	74	-	28	40	17	380
DIN 808-36-V18-114-DW	36	-	V18*	-	114	28	40	17	414
DIN 808-42-V20-82-EW	42	-	V20*	82	-	37	46	18	572
DIN 808-42-V20-128-DW	42	-	V20*	-	128	37	46	18	620
DIN 808-45-V22-95-EW	45	-	V22*	95	-	34	50	22	740
DIN 808-45-V22-145-DW	45	-	V22*	-	145	34	50	22	810
DIN 808-50-V25-108-EW	50	-	V25*	108	-	43	55	26	1038
DIN 808-50-V25-163-DW	50	-	V25*	-	163	43	55	26	1518
DIN 808-58-V30-122-EW	58	-	V30*	122	-	41	68	29	1560
DIN 808-58-V30-190-DW	58	-	V30*	-	190	41	68	29	2040
DIN 808-70-V35-140-EW	70*	-	V35*	140	-	47.5	72	35	2540
DIN 808-70-V35-212-DW	70*	-	V35*	-	212	47.5	72	35	3000

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Universal joints

for ordinary applications

SPECIFICATION

Types

- Type **EG**: single, friction bearing
- Type **DG**: double, friction bearing

Steel

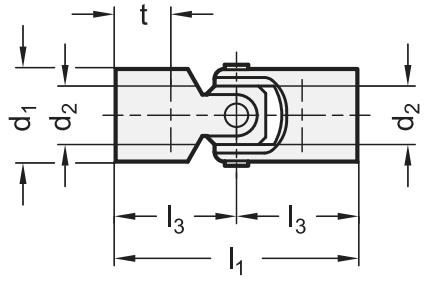
- not hardened
- blackened

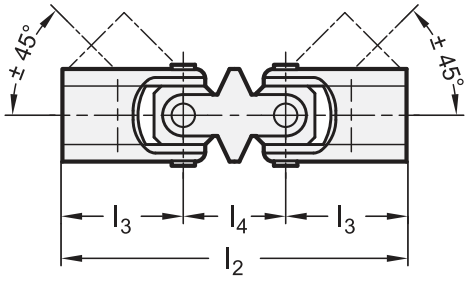
INFORMATION

Universal joints GN 9080 are a simple and very competitively priced variant.
They can only be used for applications with low revolutions. Typical applications are all types of manual operations such as the adjustment of louvers.

TECHNICAL INFORMATION

- Cross holes GN 110.1 (see page A17)
- ISO-Fundamental Tolerances (see page A21)





GN 9080

Description	d1	d2 H8	l1	l2	l3	l4	t+1 max. assembly length of the shaft	Max. torque in Nm	⚖
GN 9080-13-B8-DG	13	B 8	-	60	21	18	12	2	36
GN 9080-16-B10-DG	16	B 10	-	74	26	22	15	3	68
GN 9080-20-B12-DG	20	B 12	-	88	31	26	18	6	132
GN 9080-25-B16-DG	25	B 16	-	104	37	30	22	12	235
GN 9080-32-B20-DG	32	B 20	-	124	43	38	25	24	455
GN 9080-13-B8-EG	13	B 8	42	-	21	-	12	2	25
GN 9080-16-B10-EG	16	B 10	52	-	26	-	15	3	47
GN 9080-20-B12-EG	20	B 12	62	-	31	-	18	6	91
GN 9080-25-B16-EG	25	B 16	74	-	37	-	22	12	164
GN 9080-32-B20-EG	32	B 20	86	-	43	-	25	24	290

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GN 808.1

Gaiters

for universal joints DIN 808

SPECIFICATION

Types

- Type **E**: for single joints
- Type **D**: for double joints

Type **E**
Rubber (CR)
black

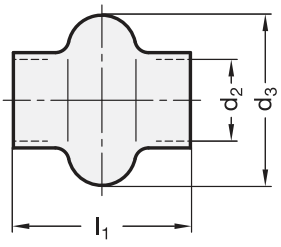
Type **D**
Elastomer plastic
smooth PVC
black

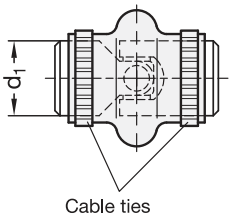
INFORMATION

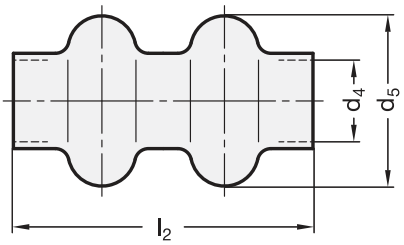
Gaiters GN 808.1 give universal joints full protection against ingress of dirt.
At the same time they can be filled with grease which gives long term lubrication for friction bearings.
The gaiters are secured at each end with two cable ties, which are supplied each sleeve.

TECHNICAL INFORMATION

- Elastomer characteristics (see page A32)







GN 808.1

Description	d1	d2	d3	d4	d5	l1	l2	⚖
GN 808.1-16-D	16	-	-	16	35	-	55	10
GN 808.1-22-D	22	-	-	20	36	-	65	11
GN 808.1-25-D	25	-	-	24	44	-	70	25
GN 808.1-28-D	28	-	-	28	51	-	80	25
GN 808.1-32-D	32	-	-	32	62	-	90	51
GN 808.1-42-D	42	-	-	40	73	-	120	84
GN 808.1-50-D	50	-	-	50	90	-	155	101
GN 808.1-16-E	16	15	28	-	-	34	-	7
GN 808.1-22-E	22	20.5	40	-	-	45	-	20
GN 808.1-25-E	25	24.5	48	-	-	50	-	10
GN 808.1-28-E	28	27.5	52	-	-	56	-	20
GN 808.1-32-E	32	30.5	56	-	-	65	-	20
GN 808.1-36-E	36	35.5	66	-	-	72	-	24
GN 808.1-42-E	42	40	75	-	-	82	-	40
GN 808.1-45-E	45	45	84	-	-	95	-	50
GN 808.1-50-E	50	50	92	-	-	108	-	63
GN 808.1-58-E	58	56	100	-	-	122	-	60

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GN 808.2

RoHS

Universal joint shafts with friction bearing

with longitudinal compensation

SPECIFICATION

Bore code

- Version **K**: with keyway

Steel blank

Joint bearing areas / pins / bearing sleeves
case hardened

INFORMATION

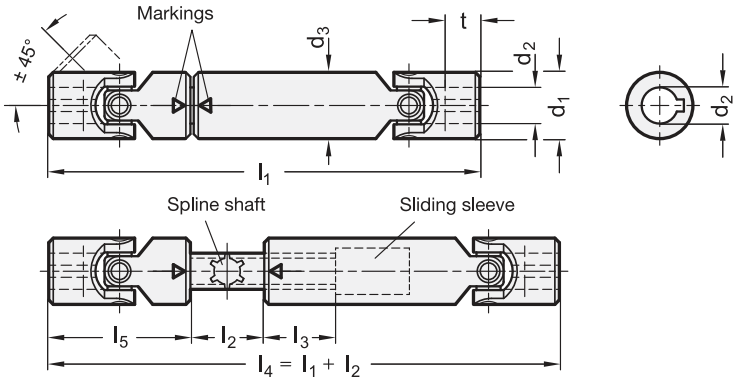
Universal joint shafts with friction bearing GN 808.2 not only join the offset between two shafts, but also enable the alignment of lengths, which depending on the overall length l_1 enables the corresponding extraction length l_2. The power transmission is achieved by two universal joints DIN 808 (type EG) (see page 1126) a splined shaft and a sliding sleeve.
It is important to check the accuracy when connec-ting the splined shaft to the sliding sleeve: The markings -> <- have to be opposite to each other. Any kind of misconnection leads to an inhomogeneous output and to a quick abrasion.

ON REQUEST

- different length l_1 - l_2
- Bores without keyway
- Bores with square
- with other or unequal bores

TECHNICAL INFORMATION

- Permissible r.p.m. and torque (see page 1124)
- Keyway DIN 6885 (see page A16)
- Cross holes GN 110.1 (see page A17)
- ISO-Fundamental Tolerances (see page A21)



GN 808.2

Description	d1	d2 H7	l1-l2	d3	l3	l5	t +1	⚖
GN 808.2-22-K10-140-30	22	K 10	140-30	22	30	48	12	310
GN 808.2-22-K10-160-40	22	K 10	160-40	22	30	48	12	368
GN 808.2-22-K10-180-60	22	K 10	180-60	22	30	48	12	400
GN 808.2-25-K12-160-30	25	K 12	160-30	26	40	56	13	502
GN 808.2-25-K12-180-45	25	K 12	180-45	29	40	56	13	554
GN 808.2-25-K12-200-70	25	K 12	200-70	29	40	56	13	620
GN 808.2-25-K12-250-105	25	K 12	250-105	29	40	56	13	770
GN 808.2-28-K14-170-30	28	K 14	170-30	32	40	60	13	630
GN 808.2-28-K14-200-60	28	K 14	200-60	37	40	60	13	719
GN 808.2-28-K14-220-80	28	K 14	220-80	37	40	60	13	785
GN 808.2-28-K14-280-140	28	K 14	280-140	37	40	60	13	965
GN 808.2-32-K16-190-30	32	K 16	190-30	37	40	68	16	900
GN 808.2-32-K16-240-80	32	K 16	240-80	42	40	68	16	1093
GN 808.2-32-K16-275-115	32	K 16	275-115	42	40	68	16	1245
GN 808.2-32-K16-380-210	32	K 16	380-210	42	40	68	16	1600

GN 808.2

Description	d1	d2 H7	l1-l2	d3	l3	l5	t +1	⚖
GN 808.2-36-K18-230-50	36	K 18	230-50	52	40	74	17	1368
GN 808.2-36-K18-270-100	36	K 18	270-100	52	40	74	17	1560
GN 808.2-36-K18-290-110	36	K 18	290-110	58	40	74	17	1665
GN 808.2-36-K18-400-220	36	K 18	400-220	58	40	74	17	2225
GN 808.2-42-K20-250-50	42	K 20	250-50	42	45	82	18	1990
GN 808.2-42-K20-320-120	42	K 20	320-120	42	45	82	18	2400
GN 808.2-42-K20-420-220	42	K 20	420-220	42	45	82	18	3130
GN 808.2-45-K22-270-50	45	K 22	270-50	45	50	95	22	2520
GN 808.2-45-K22-330-100	45	K 22	330-100	45	50	95	22	3010
GN 808.2-45-K22-470-240	45	K 22	470-240	45	50	95	22	4140
GN 808.2-50-K25-295-50	50	K 25	295-50	50	50	108	26	3400
GN 808.2-50-K25-350-100	50	K 25	350-100	50	50	108	26	3920
GN 808.2-50-K25-420-170	50	K 25	420-170	50	50	108	26	4605
GN 808.2-58-K30-330-50	58	K 30	330-50	58	60	122	29	4880
GN 808.2-58-K30-400-110	58	K 30	400-110	58	60	122	29	5880

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GN 808.3

Universal joint shafts with needle bearing

with longitudinal compensation

SPECIFICATION

Bore codes

- Version **K**: with keyway

Steel
blank

Joint bearing areas, pins
case hardened

INFORMATION

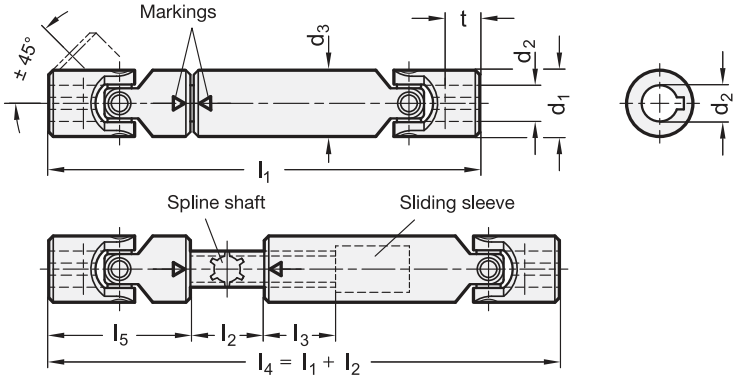
Universal joint shafts with needle bearing GN 808.3 not only join the offset between two shafts, but also enable the alignment of lengths, which depending on the overall length l1 enables the corresponding extraction length l2. The power transmission is achive-bed by two universal joints DIN 808 (type EW) (see page 1126) a splined shaft and a sliding sleeve . It is important to check the accuracy when connecting the splined shaft to the sliding sleeve. The markings -> <- have to be opposite to each other. Any kind of misconnection leads to an inhomogeneous output and to a quick abrasion.

ON REQUEST

- different length l_1 - l_2
- Bores without keyway
- Bores with square
- with other or unequal bores

TECHNICAL INFORMATION

- Permissible r.p.m. and torque (see page 1125)
- Keyway DIN 6885 (see page A16)
- Cross holes GN 110 (see page A17)
- ISO-Fundamental Tolerances (see page A21)



GN 808.3

Description	d1	d2 H7	l1-l2	d3	l3	l5	t +1	⚖
GN 808.3-22-K10-140-30	22	K 10	140-30	22	30	48	12	320
GN 808.3-22-K10-160-40	22	K 10	160-40	22	30	48	12	360
GN 808.3-22-K10-180-60	22	K 10	180-60	22	30	48	12	395
GN 808.3-25-K12-160-30	25	K 12	160-30	26	40	56	13	500
GN 808.3-25-K12-180-45	25	K 12	180-45	26	40	56	13	510
GN 808.3-25-K12-200-70	25	K 12	200-70	26	40	56	13	563
GN 808.3-25-K12-250-105	25	K 12	250-105	26	40	56	13	755
GN 808.3-28-K14-170-30	28	K 14	170-30	29	40	60	13	627
GN 808.3-28-K14-200-60	28	K 14	200-60	29	40	60	13	730
GN 808.3-28-K14-220-80	28	K 14	220-80	29	40	60	13	804
GN 808.3-28-K14-280-140	28	K 14	280-140	29	40	60	13	972
GN 808.3-32-K16-190-30	32	K 16	190-30	32	40	68	16	910
GN 808.3-32-K16-240-80	32	K 16	240-80	32	40	68	16	1106
GN 808.3-32-K16-275-115	32	K 16	275-115	32	40	68	16	1250
GN 808.3-32-K16-380-210	32	K 16	380-210	32	40	68	16	1640

GN 808.3

Description	d1	d2 H7	l1-l2	d3	l3	l5	t +1	⚖
GN 808.3-36-K18-230-50	36	K 18	230-50	37	40	74	17	1355
GN 808.3-36-K18-270-100	36	K 18	270-100	37	40	74	17	1575
GN 808.3-36-K18-290-110	36	K 18	290-110	37	40	74	17	1900
GN 808.3-36-K18-400-220	36	K 18	400-220	37	40	74	17	2241
GN 808.3-42-K20-250-50	42	K 20	250-50	42	45	82	18	1947
GN 808.3-42-K20-320-120	42	K 20	320-120	42	45	82	18	2480
GN 808.3-42-K20-420-220	42	K 20	420-220	42	45	82	18	3130
GN 808.3-45-K22-270-50	45	K 22	270-50	47	50	95	22	2540
GN 808.3-45-K22-330-100	45	K 22	330-100	47	50	95	22	3060
GN 808.3-45-K22-470-240	45	K 22	470-240	47	50	95	22	4140
GN 808.3-50-K25-295-50	50	K 25	295-50	52	50	108	26	3375
GN 808.3-50-K25-350-100	50	K 25	350-100	52	50	108	26	3940
GN 808.3-50-K25-420-170	50	K 25	420-170	52	50	108	26	4680
GN 808.3-58-K30-330-50	58	K 30	330-50	58	60	122	29	4900
GN 808.3-58-K30-400-110	58	K 30	400-110	58	60	122	29	5800

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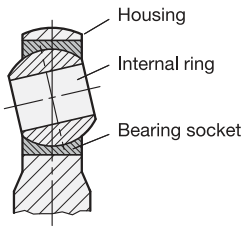
Ball joint heads DIN ISO 12240-4 / DIN 12240-1, Series K

Technical information



Steel version

Type **N**
Housing steel, zinc plated
Pairings
Internal ring steel, hardened
Bearing socket brass
lubrication possible.

Features of general use:

For general use, and in particular for continuously changing thrust and shock loads in radial and axial plane.

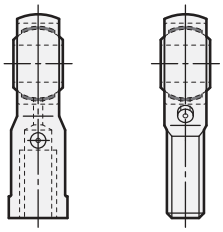
Type **W**
Housing steel, zinc plated
Pairings
Internal ring steel, hardened
Bearing socket steel, zinc plated with PTFE-insert
self lubricated.

For general use, especially for application under dynamic operating conditions.
Load bearing capacitiy than Type **N.**

Ball joint heads

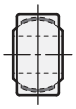
with female thread

with threaded bolt



Ball joints

without housing



Stainless Steel version

Type **NH**
Housing Stainless Steel
Pairings
Internal ring, hardened, hard chrome plated
Bearing socket bronze
lubrication possible.

As Type **N**
for use in corrosion endangered area.

Type **WH**
Housing Stainless Steel
Pairings
Internal ring steel, hardened
Bearing socket bronze, with PTFE-insert
self lubricated.

As Type **W**
for use in corrosion endangered area.

Type **WK**
Housing Stainless Steel
Pairings
Internal ring Stainless Steel, hardened
Bearing socket Stainless Steel, with PTFE-insert
self lubricated.

As Type **W**
for use in areas where the highest degree of corrosion resistance is of paramount importance. Such as for instance in the food industry.

Bearing play

Bearing play refers to the amount of play by which the internal ring inside a bearing socket without lubrication can be moved either a radial or an axial plane.

Types **N, NH** lubrication possible		Types **W, WH, WK** self lubricated		
d_1 Bore internal ring	Radial bearing play	**d_1** Bore internal ring	Radial bearing play	Axial bearing play
5 ... 10	0.005 ... 0.035	5 ... 10	0,005 ... 0.030	2 to 3 times radial play
12 ... 20	0.010 ... 0.040	12 ... 18	0,005 ... 0.035	
22 ... 30	0.010 ... 0.050	20 ... 30	0,005 ... 0.055	

Load applied to obtain the measured results: 100 N at room temperature.

Lubrication

Ball joint heads of type **N** (lubrication possible) require regular lubrication. On delivery the ball joint heads are not lubricated. The initial lubrication takes place when installed. Within the temperature range of -20 °C to +125 °C, a multipurose grease proved to be adequate. Under extreme conditions a high quality grease such as for instance Gleitmo 805 K should be used. Ball joint heads of the type **W** (self lubricated) **must never be lubricated.** The internal ring moves on a PTFE-insert of the bearing socket.

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Ball joint heads DIN ISO 12240-4 / DIN ISO 12240-1, Series K

Technical information

Operating temperature

Ball joint heads of the type **N** (lubrication possible) can be used within the temperature range -50 °C to +200 °C and if use with a high temperature grease even higher. Ball joint heads of the type **W** (self lubricated) can be used in the temperature range of -50 °C bis +200 °C. In general use at higher temperature is possible, but this will of course shorten the working life of the head.

Load values

Load values are bearing related values, arrived at from the raw material data of the basic material of construction used. The latter is used to determine the choice of a ball joint head for a given load. These might, however, have to be reduced to meet the requirements of particular circumstances.

Static load values Co in kN

Co gives the permitted radial static load which can be applied to a ball joint head with the weakest cross section without causing permanent deformation. The Co-values quoted in the catalogue table have been calculated, based on the corresponding raw material specification. Subsequently a random number of the ball joint heads was stress tested at room temperature. Each and every time the stress tests were based on using up to 80 % before the onset of deformation thus leaving a safety factor of 1.25. The static value Co is used to obtain the permissible axial load which in general is limited by the mounting strength of the internal bearing. To obtain the maximum axial load Fa tests were carried out at the largest permissible slant angle and the results obtained are shown in the table below:
Fa = 0.4 Co for type N
Fa = 0.2 Co for types NH, W, WH, WK

d_1	GN 648.1		GN 648.2		GN 648.5	GN 648.6	GN 648.8		GN 648.9
Size	Type **N**	Type **W**	Type **N**	Type **W**	Type **NH/WH/WK**	Type **NH/WH/WK**	Type **N**	Type **W**	Type **WK**
5	9.9	8	4.3	4.3	11.8	6.2	19.8	12.5	12.5
6	11.9	8.9	6	6	13.1	8.8	25.8	15.5	15.5
8	17.1	14.1	11	11	20.7	16.1	42.6	27.8	27.8
10	21.4	19.3	17.4	17.4	28.3	25.5	60	39.0	39.0
12	27	23.5	25.5	23.5	34.5	34.5	80	53.5	53.5
14	24.5	21	24.5	21	39.5	39.5	102.5	70	70
16	37	32	36.5	32	60.5	60.5	128.5	88	88
18	43	38.5	43	38.5	73	73	157	106.5	106.5
20	49.5	44	49.5	44	83	83	188.5	130	130
22	57	53	57	53	100	100	229	162	162
25	68	62	68	61	118	118	293	204	204
30	82	82	82	82	155	155	381	281	281

Dynamic load value C in kN

They help to evaluate the length of life for ball joint heads when use under dynamic conditions.

d_1	GN 648.1 / GN 648.2		GN 648.5/.6		GN 648.8		GN 648.9
Size	Type **N**	Type **W**	Type **NH**	Type **WH/WK**	Type **N**	Type **W**	Type **WK**
5	2.5	7.5	3.3	7.5	3.3	7.5	7.5
6	3.2	9.3	4.3	9.3	4.3	9.3	9.3
8	5.4	16.7	7.1	16.7	7.1	16.7	16.7
10	7.5	23.4	10	23.4	10	23.4	23.4
12	10	32	13.5	32	13.5	32.0	32.0
14	13	42	17	42	17	42.0	42.0
16	16	52.5	21.5	52.5	21.5	52.5	52.5
18	19.5	64	26	64	26	64.0	64.0
20	23.5	78	31.5	78	31.5	78.0	78.0
22	29	97	38	97	38	97.0	97.0
25	35	122	47	122	47	122	122
30	64	168	64	168	64	168	168

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GN 648.1

Ball joint heads with female thread

SPECIFICATION

Types (pairings)

- Type **N**: Brass / Steel lubrication possible
- Type **W**: Steel-PTFE / Steel self lubricated

Housing Steel

- zinc plated, blue passivated
- d_1 = 5 up to 12: machined
- d_1 = 14 up to 25: forged

Pairings

Type N (lubrication possible)
Bearing socket
Brass, CuZn40Al1

Internal ring
Steel, 100Cr6
hardened, ground, polished

Type W (self lubricated)
Bearing socket
Steel, zinc plated
with PTFE-insert

Internal ring
Steel, 100Cr6
hardened, ground, polished

INFORMATION

Ball joint heads GN 648.1 are similar to DIN ISO 12240-4, series K (formerly DIN 648 K).

- More information to ball joints as well as load capacity (see page 1134)

ON REQUEST

- narrow model (ISO 12240-1, series E)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)

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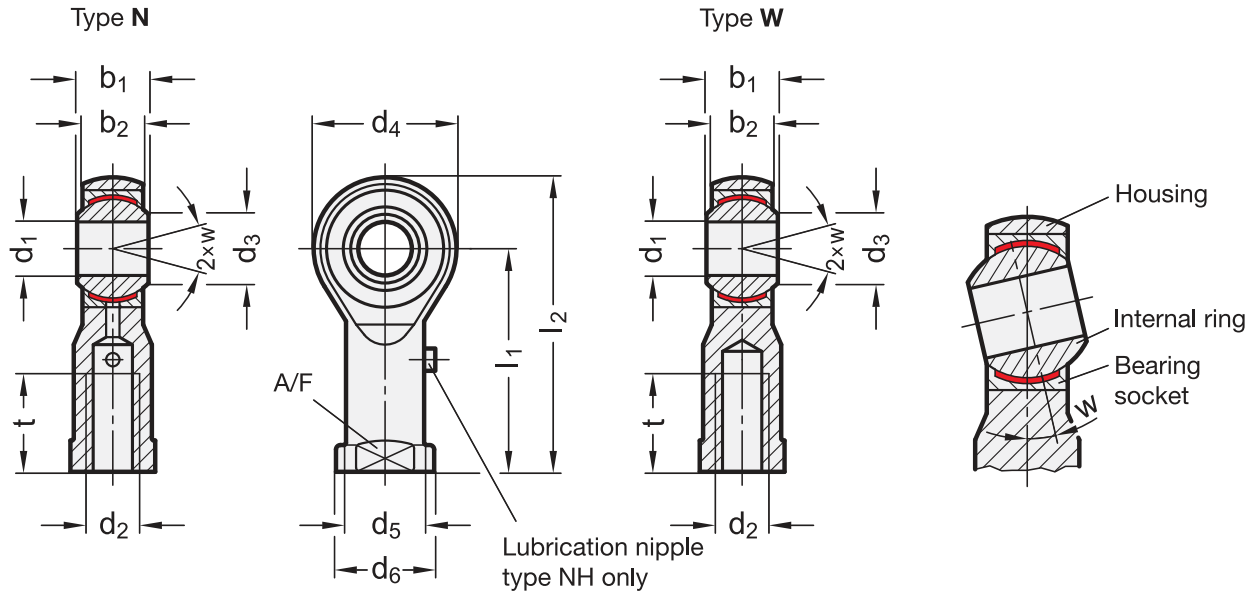
GN 648.1

Ball joint heads with female thread



*Complete with type index of the Ball joint heads

N W

GN 648.1

Description	d1 H7	d2	b1 -0.12	b2	d3	d4	d5	d6	l1	l2	A/F	t	w	⚖
GN 648.1-5-M4-*	5	M 4***	8	6	7.7	18	9	11	27	36	9	10	13 °	19
GN 648.1-5-M5-*	5	M 5	8	6	7.7	18	9	11	27	36	9	10	13 °	20
GN 648.1-5-M5L-*	5	M 5L	8	6	7.7	18	9	11	27	36	9	10	13 °	19
GN 648.1-6-M6-*	6	M 6	9	6.75	8.9	20	10	13	30	40	11	12	13 °	25
GN 648.1-6-M6L-*	6	M 6L	9	6.75	8.9	20	10	13	30	40	11	12	13 °	25
GN 648.1-8-M8-*	8	M 8	12	9	10.4	24	12.5	16	36	48	13	16	14 °	45
GN 648.1-8-M8L-*	8	M 8L	12	9	10.4	24	12.5	16	36	48	13	16	14 °	45
GN 648.1-10-M10-*	10	M 10	14	10.5	12.9	28	15	19	43	57	17	20	13 °	75
GN 648.1-10-M10L-*	10	M 10L	14	10.5	12.9	28	15	19	43	57	17	20	13 °	74
GN 648.1-10-M10x1,25-*	10	M 10 x 1.25***	14	10.5	12.9	28	15	19	43	57	17	20	13 °	75
GN 648.1-12-M12-*	12	M 12	16	12	15.4	32	17.5	22	50	66	19	22	13 °	110
GN 648.1-12-M12L-*	12	M 12L	16	12	15.4	32	17.5	22	50	66	19	22	13 °	111
GN 648.1-12-M12x1,25-*	12	M 12 x 1.25***	16	12	15.4	32	17.5	22	50	66	19	22	13 °	110
GN 648.1-14-M14-*	14	M 14	19	13.5	16.8	36	20	25	57	75	22	25	16 °	167
GN 648.1-14-M14L-*	14	M 14L	19	13.5	16.8	36	20	25	57	75	22	25	16 °	167
GN 648.1-16-M16-*	16	M 16	21	15	19.3	42	22	27	64	85	22	28	15 °	225
GN 648.1-16-M16L-*	16	M 16L	21	15	19.3	42	22	27	64	85	22	28	15 °	224
GN 648.1-16-M16x1,5-*	16	M 16 x 1.5***	21	15	19.3	42	22	27	64	85	22	28	15 °	225
GN 648.1-18-M18x1,5-*	18	M 18 x 1.5	23	16.5	21.8	46	25	31	71	94	27	32	15 °	318
GN 648.1-18-M18x1,5L-*	18	M 18 x 1.5L	23	16.5	21.8	46	25	31	71	94	27	32	15 °	320
GN 648.1-20-M20x1,5-*	20	M 20 x 1.5	25	18	24.3	50	27.5	34	77	102	32	33	14 °	405
GN 648.1-20-M20x1,5L-*	20	M 20 x 1.5L	25	18	24.3	50	27.5	34	77	102	32	33	14 °	408
GN 648.1-22-M22x1,5-*	22	M 22 x 1.5	28	20	25.8	54	30	37	84	111	32	37	15 °	505
GN 648.1-22-M22x1,5L-*	22	M 22 x 1.5L	28	20	25.8	54	30	37	84	111	32	37	15 °	512
GN 648.1-25-M24x2-*	25	M 24 x 2	31	22	29.6	60	33.5	42	94	124	36	42	15 °	720
GN 648.1-25-M24x2L-*	25	M 24 x 2L	31	22	29.6	60	33.5	42	94	124	36	42	15 °	725
GN 648.1-30-M30x2-*	30**	M 30 x 2	37	25	34.8	70	40	51	110	145	41	51	17 °	1100
GN 648.1-30-M30x2L-*	30**	M 30 x 2L	37	25	34.8	70	40	51	110	145	41	51	17 °	1130

** only available in type W | *** Cetop

Weight type W

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GN 648.2

Ball joints heads with threaded bolt

SPECIFICATION

Types (pairings)

- Type **N**: Brass / Steel lubrication possible
- Type **W**: Steel-PTFE / Steel self lubricated

Housing Steel

- zinc plated, blue passivated
- d_1 = 5 up to 12: machined
- d_1 = 14 up to 25: forged

Pairings

Type N (lubrication possible)
Bearing socket
Brass, CuZn40Al1

Internal ring
Steel, 100Cr6
hardened, ground, polished

Type W (self lubricated)
Bearing socket
Steel, zinc plated
with PTFE-insert

Internal ring
Steel, 100Cr6
hardened, ground, polished

INFORMATION

Ball joint heads GN 648.2 are similar to DIN ISO 12240-4, series K (formerly DIN 648 K).

- More information to ball joints as well as load capacity (see page 1134)

ON REQUEST

- narrow model (ISO 12240-1, series E)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)

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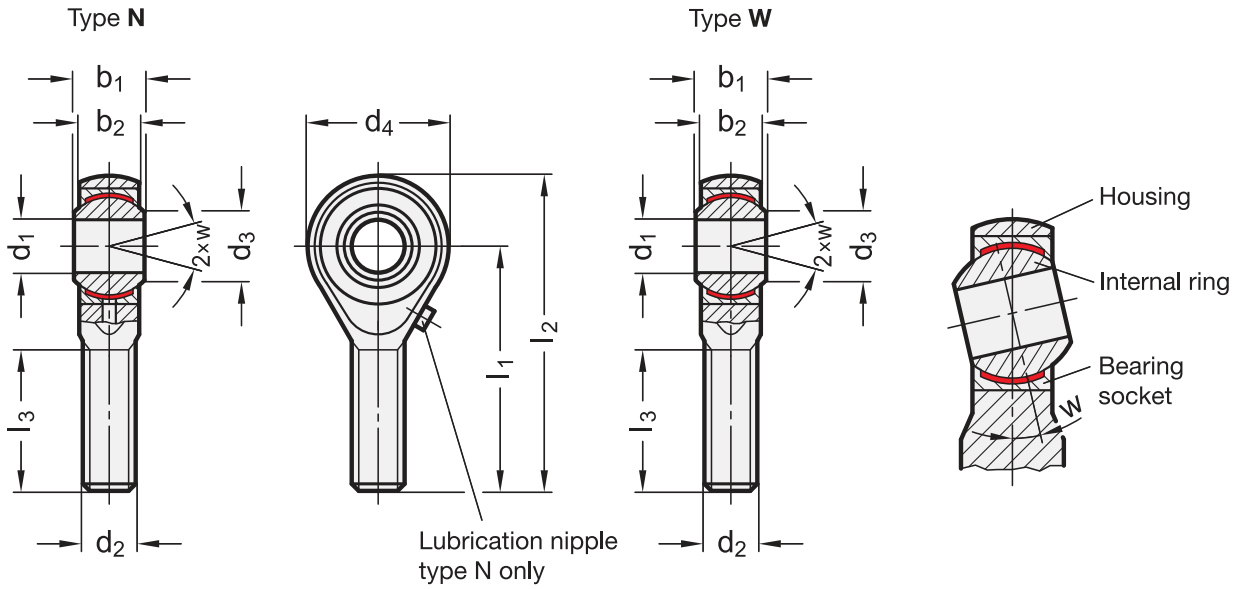
GN 648.2 | Ball joints heads with threaded bolt



*Complete with type index of the Ball joint heads

N W

GN 648.2

Description	d1 H7	d2	b1 -0.12	b2	d3	d4	l1	l2	l3	w	⚖
GN 648.2-5-M5-*	5**	M 5	8	6	7.7	18	33	42	20	13 °	15
GN 648.2-5-M5L-*	5**	M 5L	8	6	7.7	18	33	42	20	13 °	15
GN 648.2-6-M6-*	6	M 6	9	6.75	8.9	20	36	46	22	13 °	20
GN 648.2-6-M6L-*	6	M 6L	9	6.75	8.9	20	36	46	22	13 °	20
GN 648.2-8-M8-*	8	M 8	12	9	10.4	24	42	54	25	14 °	40
GN 648.2-8-M8L-*	8	M 8L	12	9	10.4	24	42	54	25	14 °	40
GN 648.2-10-M10-*	10	M 10	14	10.5	12.9	28	48	62	29	13 °	60
GN 648.2-10-M10L-*	10	M 10L	14	10.5	12.9	28	48	62	29	13 °	60
GN 648.2-12-M12-*	12	M 12	16	12	15.4	32	54	70	33	13 °	90
GN 648.2-12-M12L-*	12	M 12L	16	12	15.4	32	54	70	33	13 °	90
GN 648.2-14-M14-*	14	M 14	19	13.5	16.8	36	60	78	38	16 °	135
GN 648.2-14-M14L-*	14	M 14L	19	13.5	16.8	36	60	78	38	16 °	135
GN 648.2-16-M16-*	16	M 16	21	15	19.3	42	66	87	40	15 °	205
GN 648.2-16-M16L-*	16	M 16L	21	15	19.3	42	66	87	40	15 °	205
GN 648.2-18-M18x1,5-*	18	M 18 x 1.5	23	16.5	21.8	46	72	95	44	15 °	270
GN 648.2-18-M18x1,5L-*	18	M 18 x 1.5L	23	16.5	21.8	46	72	95	44	15 °	270
GN 648.2-20-M20x1,5-*	20	M 20 x 1.5	25	18	24.3	50	78	103	47	14 °	355
GN 648.2-20-M20x1,5L-*	20	M 20 x 1.5L	25	18	24.3	50	78	103	47	14 °	355
GN 648.2-22-M22x1,5-*	22	M 22 x 1.5	28	20	25.8	54	84	111	51	15 °	455
GN 648.2-22-M22x1,5L-*	22	M 22 x 1.5L	28	20	25.8	54	84	111	51	15 °	460
GN 648.2-25-M24x2-*	25	M 24 x 2	31	22	29.6	60	94	124	58	15 °	605
GN 648.2-25-M24x2L-*	25	M 24 x 2L	31	22	29.6	60	94	124	58	15 °	600
GN 648.2-30-M30x2-*	30***	M 30 x 2	37	25	34.8	70	110	145	71	17 °	1020
GN 648.2-30-M30x2L-*	30***	M 30 x 2L	37	25	34.8	70	110	145	71	17 °	1020

** d1 = 5 type N no lubrication possible | *** only available in type W

Weight type W

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Stainless Steel-Ball joint heads with female thread

SPECIFICATION

Types (pairings)

- Type **NH**: Bronze / Steel lubrication possible
- Type **WH**: Bronze-PTFE / Steel self lubricated
- Type **WK**: Stainless Steel-PTFE / Stainless Steel, self lubricated

Housing Stainless Steel AISI 431
forged, polished

Pairings

Type NH (lubrication possible)
Bearing socket Bronze CuSn8

Internal ring Steel 100 Cr6
hardened, ground, polished
hard chrome plated

Type WH (self lubricated)
Bearing socket Bronze CuSN8
with PTFE-insert

Internal ring Steel 100Cr6
hardened, ground, polished
hard chrome plated

Type WK (self lubricated)
Bearing socket, Stainless Steel
AISI 316Ti with PTFE-insert

Internal ring
Stainless Steel AISI 420
hardened, ground, polished

INFORMATION

Ball joint heads GN 648.5 are similar to DIN ISO 12240-4, series K (formerly DIN 648 K).

- More information to ball joints as well as load capacity (see page 1134)

ON REQUEST

- narrow model (ISO 12240-1, series E)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)

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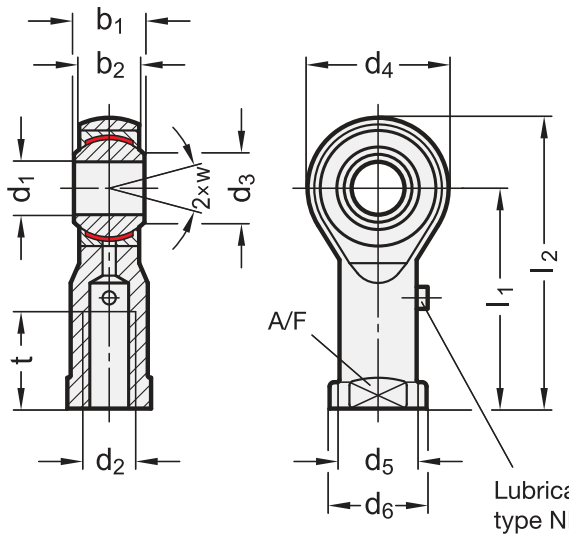
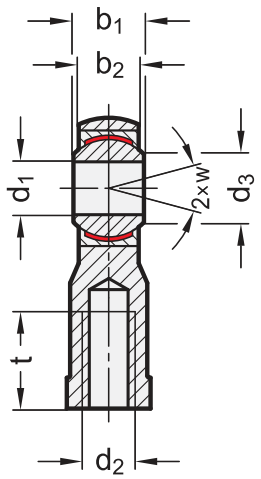
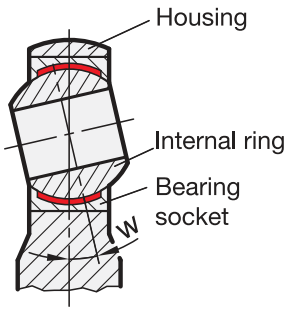
GN 648.5 | Stainless Steel-Ball joint heads with female thread

Type **NH**



Type **WH**
Type **WK**





*Complete with type index of the Ball joint heads

NH **WH** **WK**

GN 648.5 **STAINLESS STEEL**

Description	d1 H7	d2	b1 -0.12	b2	d3	d4	d5	d6	l1	l2	A/F	t	w	⚖
GN 648.5-5-M5-*	5	M 5	8	6	7.7	18	9	11	27	36	9	10	13°	19
GN 648.5-5-M5L-*	5	M 5L	8	6	7.7	18	9	11	27	36	9	10	13°	19
GN 648.5-6-M6-*	6	M 6	9	6.75	8.9	20	10	13	30	40	11	12	13°	26
GN 648.5-6-M6L-*	6	M 6L	9	6.75	8.9	20	10	13	30	40	11	12	13°	26
GN 648.5-8-M8-*	8	M 8	12	9	10.4	24	12.5	16	36	48	13	16	14°	48
GN 648.5-8-M8L-*	8	M 8L	12	9	10.4	24	12.5	16	36	48	13	16	14°	47
GN 648.5-10-M10-*	10	M 10	14	10.5	12.9	28	15	19	43	57	17	20	13°	76
GN 648.5-10-M10L-*	10	M 10L	14	10.5	12.9	28	15	19	43	57	17	20	13°	75
GN 648.5-12-M12-*	12	M 12	16	12	15.4	32	17.5	22	50	66	19	22	13°	112
GN 648.5-12-M12L-*	12	M 12L	16	12	15.4	32	17.5	22	50	66	19	22	13°	111
GN 648.5-14-M14-*	14	M 14	19	13.5	16.8	36	20	25	57	75	22	25	16°	165
GN 648.5-14-M14L-*	14	M 14L	19	13.5	16.8	36	20	25	57	75	22	25	16°	163
GN 648.5-16-M16-*	16	M 16	21	15	19.3	42	22	27	64	85	22	28	15°	227
GN 648.5-16-M16L-*	16	M 16L	21	15	19.3	42	22	27	64	85	22	28	15°	225
GN 648.5-18-M18x1,5-*	18	M 18 x 1.5	23	16.5	21.8	46	25	31	71	94	27	32	15°	309
GN 648.5-18-M18x1,5L-*	18	M 18 x 1.5L	23	16.5	21.8	46	25	31	71	94	27	32	15°	308
GN 648.5-20-M20x1,5-*	20	M 20 x 1.5	25	18	24.3	50	27.5	34	77	102	32	33	14°	401
GN 648.5-20-M20x1,5L-*	20	M 20 x 1.5L	25	18	24.3	50	27.5	34	77	102	32	33	14°	400
GN 648.5-22-M22x1,5-*	22	M 22 x 1.5	28	20	25.8	54	30	37	84	111	32	37	15°	517
GN 648.5-22-M22x1,5L-*	22	M 22 x 1.5L	28	20	25.8	54	30	37	84	111	32	37	15°	517
GN 648.5-25-M24x2-*	25	M 24 x 2	31	22	29.6	60	33.5	42	94	124	36	42	15°	734
GN 648.5-25-M24x2L-*	25	M 24 x 2L	31	22	29.6	60	33.5	42	94	124	36	42	15°	732
GN 648.5-30-M30x2-*	30	M 30 x 2	37	25	34.8	70	40	51	110	145	41	51	17°	1130
GN 648.5-30-M30x2L-*	30	M 30 x 2L	37	25	34.8	70	40	51	110	145	41	51	17°	1130

Weight type NH

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Stainless Steel-Ball joint heads with threaded bolt

SPECIFICATION

Types (pairings)

- Type **NH**: Bronze / Steel lubrication possible
- Type **WH**: Bronze-PTFE / Steel self lubricated
- Type **WK**: Stainless Steel-PTFE / Stainless Steel self lubricated

Housing Stainless Steel AISI 431
forged, polished

Pairings

Type NH (lubrication possible)
Bearing socket Bronze CuSn8

Internal ring Steel 100 Cr6
hardened, ground, polished
hard chrome plated

Type WH (self lubricated)
Bearing socket Bronze CuSN8
with PTFE-insert

Internal ring Steel 100Cr6
hardened, ground, polished
hard chrome plated

Type WK (self lubricated)
Bearing socket, Stainless Steel AISI 316Ti
with PTFE-insert

Internal ring
Stainless Steel AISI 420
hardened, ground, polished

INFORMATION

Ball joint heads GN 648.6 are similar to DIN ISO 12240-4, series K (formerly DIN 648 K).

- More information to ball joints as well as load capacity (see page 1134)

ON REQUEST

- narrow model (ISO 12240-1, series E)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A24)

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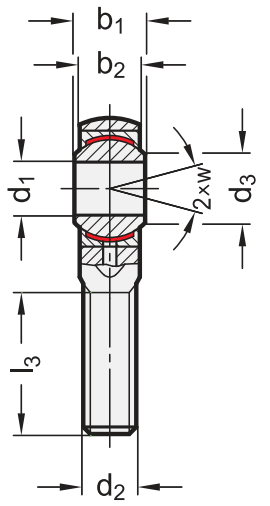
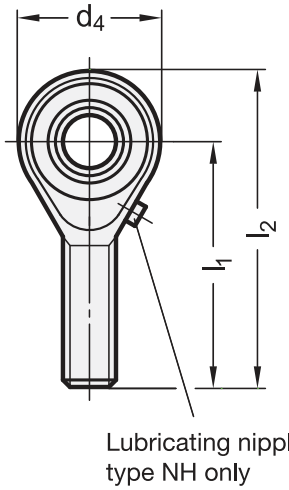
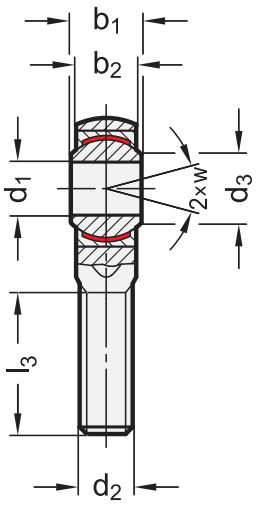
GN 648.6 | Stainless Steel-Ball joint heads with threaded bolt

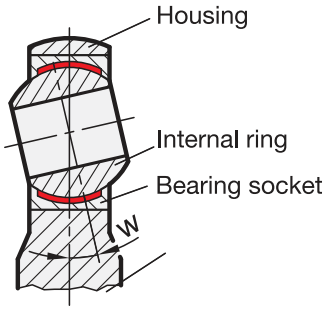
Type **NH**





Type **WH**
Type **WK**





*Complete with type index of the Ball joint heads

NH **WH** **WK**

GN 648.6 **STAINLESS STEEL**

Description	d1 H7	d2	b1 -0.12	b2	d3	d4	l1	l2	l3	w	⚖
GN 648.6-5-M5-*	5**	M 5	8	6	7.7	18	33	42	20	13°	15
GN 648.6-5-M5L-*	5**	M 5L	8	6	7.7	18	33	42	20	13°	15
GN 648.6-6-M6-*	6	M 6	9	6.75	8.9	20	36	46	22	13°	20
GN 648.6-6-M6L-*	6	M 6L	9	6.75	8.9	20	36	46	22	13°	20
GN 648.6-8-M8-*	8	M 8	12	9	10.4	24	42	54	25	14°	40
GN 648.6-8-M8L-*	8	M 8L	12	9	10.4	24	42	54	25	14°	40
GN 648.6-10-M10-*	10	M 10	14	10.5	12.9	28	48	62	29	13°	63
GN 648.6-10-M10L-*	10	M 10L	14	10.5	12.9	28	48	62	29	13°	62
GN 648.6-12-M12-*	12	M 12	16	12	15.4	32	54	70	33	13°	96
GN 648.6-12-M12L-*	12	M 12L	16	12	15.4	32	54	70	33	13°	95
GN 648.6-14-M14-*	14	M 14	19	13.5	16.8	36	60	78	38	16°	133
GN 648.6-14-M14L-*	14	M 14L	19	13.5	16.8	36	60	78	38	16°	135
GN 648.6-16-M16-*	16	M 16	21	15	19.3	42	66	87	40	15°	203
GN 648.6-16-M16L-*	16	M 16L	21	15	19.3	42	66	87	40	15°	202
GN 648.6-18-M18x1,5-*	18	M 18 x 1.5	23	16.5	21.8	46	72	95	44	15°	278
GN 648.6-18-M18x1,5L-*	18	M 18 x 1.5L	23	16.5	21.8	46	72	95	44	15°	278
GN 648.6-20-M20x1,5-*	20	M 20 x 1.5	25	18	24.3	50	78	103	47	14°	354
GN 648.6-20-M20x1,5L-*	20	M 20 x 1.5L	25	18	24.3	50	78	103	47	14°	351
GN 648.6-22-M22x1,5-*	22	M 22 x 1.5	28	20	25.8	54	84	111	51	15°	460
GN 648.6-22-M22x1,5L-*	22	M 22 x 1.5L	28	20	25.8	54	84	111	51	15°	463
GN 648.6-25-M24x2-*	25	M 24 x 2	31	22	29.6	60	94	124	58	15°	631
GN 648.6-25-M24x2L-*	25	M 24 x 2L	31	22	29.6	60	94	124	58	15°	610
GN 648.6-30-M30x2-*	30	M 30 x 2	37	25	34.8	70	110	145	71	17°	1030
GN 648.6-30-M30x2L-*	30	M 30 x 2L	37	25	34.8	70	110	145	71	17°	1020

** d1 = 5 type NH no lubrication possible

Weight type NH

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Rod ends

Technopolymer

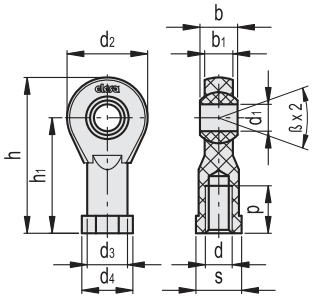
MATERIAL
Glass-fibre reinforced polyamide based (PA) technopolymer.

ROD SPHERICAL CAP
Polyamide-based self-lubricating technopolymer (PA).

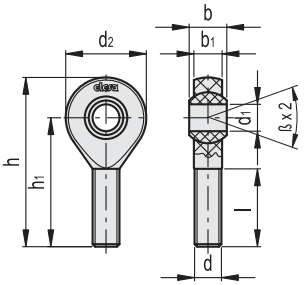
STANDARD EXECUTIONS
- **BJT:** with threaded hole.
- **BJT-p:** with threaded pin.

FEATURES AND APPLICATIONS
BJT. rod ends are remarkably suitable for rotary, oscillating and linear movements even in particularly aggressive environments and when water or humidity, fine dusts, dirt, fabrics and machining residues are present.
The shaft rotary movement can take place directly on the inner diameter of the spherical cap, made of self-lubricating material.
Features of the technopolymer rod ends:
- totally corrosion resistant even in the presence of chemicals;
- high strength to saline mist;
- high mechanical strength to the applied loads;
- lightness combined with high-rigidity;
- maintenance free;
- compensation of possible misalignments;
- absorption of vibrations and transverse stresses;
- noise minimization.

BJT



BJT-p



Resistance tests	Max static load under traction		Max transverse load	
Description	short term	continuous	short term	continuous
	[N]	[N]	[N]	[N]
BJT-M6	1400	700	400	200
BJT-M8	2100	1050	700	350
BJT-M10	3100	1550	800	400
BJT-M10x1.25	3100	1550	800	400
BJT-M12	3600	1800	900	450
BJT-M12x1.25	3600	1800	900	450
BJT-M14	4000	2000	1000	500
BJT-p-M6-36	1000	500	100	50
BJT-p-M8-42	1700	850	200	100
BJT-p-M10-48	2500	1250	300	150
BJT-p-M10x1.25-48	2500	1250	300	150
BJT-p-M12-54	2700	1350	400	200
BJT-p-M12x1.25-54	2700	1350	400	200
BJT-p-M14-61	3400	1700	700	350

The strength values are the result of lab tests carried out under room temperature (23°C).

BJT.

Code	Description	d	p	d1 E10	d2	d3	d4	b	b1	h	h1	s	[Nm]*	[Nm]#	min. thread tightening depth [mm]	Max. oscillation angle β	⚖
470001	BJT-M6	M6	12	6	20	10	13	9	7	40	30	11	1.5	10	8	29°	5
470011	BJT-M8	M8	16	8	24	13	16	12	9	48	36	14	10	12	11	25°	9
470021	BJT-M10	M10	20	10	30	15	19	14	10.5	58	43	17	15	20	13	25°	15
470022	BJT-M10x1.25	M10x1.25	20	10	30	15	19	14	10.5	58	43	17	6	20	13	25°	15
470031	BJT-M12	M12	22	12	34	18	22	16	12	67	50	19	20	30	15	25°	20
470032	BJT-M12x1.25	M12x1.25	22	12	34	18	22	16	12	67	50	19	15	30	15	25°	20
470041	BJT-M14	M14	25	14	38	20	25	19	13.5	76	57	22	25	35	17	25°	31

BJT-p

Code	Description	d	d1 E10	d2	l	b	b1	h	h1	[Nm]*	[Nm]#	min. thread tightening depth [mm]	Max. oscillation angle β	⚖
470101	BJT-p-M6-36	M6	6	20	21	9	7	46	36	0.5	10	15	29°	4
470111	BJT-p-M8-43	M8	8	24	25	12	9	55	43	2	12	18	25°	7
470121	BJT-p-M10-48	M10	10	30	28	14	10.5	63	48	5	20	20	25°	13
470122	BJT-p-M10x1.25-48	M10x1.25	10	30	28	14	10.5	63	48	3	20	20	25°	13
470131	BJT-p-M12-54	M12	12	34	32	16	12	71	54	6	30	22	25°	18
470132	BJT-p-M12x1.25-54	M12X1.25	12	34	32	16	12	71	54	6	30	22	25°	18
470141	BJT-p-M14-61	M14	14	38	36	19	13.5	80	61	12	35	25	25°	26

***** Max. thread tightening torque

Max. cap tightening torque

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GN 648.8

Ball joints

SPECIFICATION

Types (pairings)

- Type **N**: Bronze / Steel, lubrication possible
- Type **W**: Steel-PTFE / Steel, self lubricated

Pairings

Type N (lubrication possible)
Bearing socket
Brass, CuSn8

Internal ring Steel 100 Cr6
hardened, ground, polished

Type W (self lubricated)
Bearing socket
Steel, zinc plated
with PTFE-insert

Internal ring
Steel, 100Cr6
hardened, ground, polished

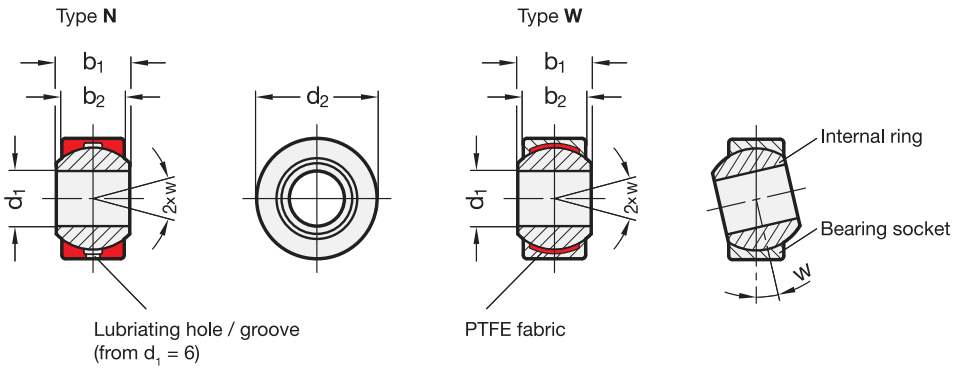
INFORMATION

Ball joints GN 648.8 are similar to DIN ISO 12240-4, series K. These ball joints are integrated in the ball joint heads GN 648.1 (see page 1136) and GN 648.2 (see page 1138).

- More information to ball joints as well as load capacity (see page 1134)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)



*Complete with type index of the Ball joints

N **W**

GN 648.8

Description	d1 H7	d2 h6	b1 -0.2	b2	w	⚖
GN 648.8-5-13-*	5	13	8	6	13°	9
GN 648.8-6-16-*	6	16	9	6.75	13°	12
GN 648.8-8-19-*	8	19	12	9	14°	24
GN 648.8-10-22-*	10	22	14	10.5	13°	38
GN 648.8-12-26-*	12	26	16	12	13°	59
GN 648.8-14-28-*	14	28**	19	13.5	16°	85
GN 648.8-16-32-*	16	32	21	15	15°	116
GN 648.8-18-35-*	18	35	23	16.5	15°	154
GN 648.8-20-40-*	20	40	25	18	14°	202
GN 648.8-22-42-*	22	42	28	20	15°	230
GN 648.8-25-47-*	25	47	31	22	15°	254
GN 648.8-30-55-*	30	55	37	25	17°	362

** DIN ISO 12240-1: Ø 29

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GN 648.9

Stainless Steel-Ball joints

SPECIFICATION

Type

Type **WK**: Stainless Steel-PTFE / Stainless Steel, self lubricated

Pairing
Type WK (self lubricated)

Bearing socket
Stainless Steel AISI 316Ti
with PTFE-insert

Internal ring
Stainless Steel AISI 420
hardened, ground, polished

INFORMATION

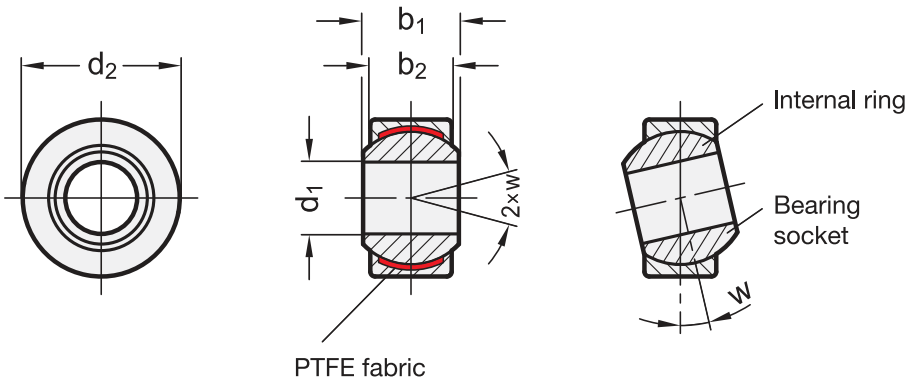
Stainless Steel-Ball joints GN 648.9 are similar to DIN ISO 12240-4, series K.
These ball joints are integrated in the ball joint heads GN 648.5 (see page 1140) and GN 648.6 (see page 1142).

- More information to ball joints as well as load capacity (see page 1134)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)

Type **WK**



GN 648.9 **STAINLESS STEEL**

Description	d1 H7	d2 h6	b1 -0.2	b2	w	⚖
GN 648.9-5-13-WK	5	13	8	6	13°	8
GN 648.9-6-16-WK	6	16	9	6.75	13°	12
GN 648.9-8-19-WK	8	19	12	9	14 °	22
GN 648.9-10-22-WK	10	22	14	10.5	13°	36
GN 648.9-12-26-WK	12	26	16	12	13°	40
GN 648.9-14-28-WK	14	28*	19	13.5	16 °	81
GN 648.9-16-32-WK	16	32	21	15	15 °	111
GN 648.9-18-35-WK	18	35	23	16.5	15 °	150
GN 648.9-20-40-WK	20	40	25	18	14 °	140
GN 648.9-22-42-WK	22	42	28	20	15 °	259
GN 648.9-25-47-WK	25	47	31	22	15 °	355
GN 648.9-30-55-WK	30	55	37	25	17 °	350

* DIN ISO 12240-1: Ø 29

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GN 751.1

Fork joints

with rotating shaft

SPECIFICATION

Types

- Type **A**: without pin
- Type **KL**: Pin with KL-shaft safety
- Type **SL**: Pin with SL-shaft safety

Steel

- Tensile strength class 5
- zinc plated, blue passivated

Shaft safetys

- Spring steel
- hardened and tempered
- zinc plated, blue passivated

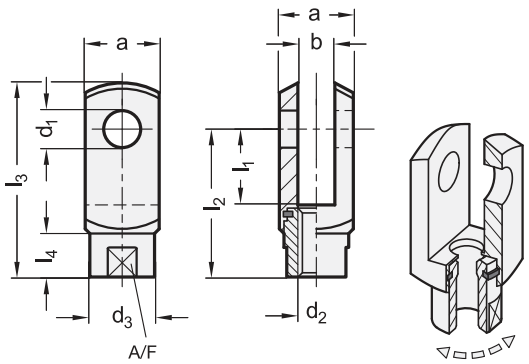
INFORMATION

Fork joints GN 751.1 basically correspond to the fork head of DIN 71752 (Type A), but, unlike the DIN element, they have a rotating shaft and an additional bolt with axial shaft lock (Type KL and SL) which can be mounted and dismantled without tools (see page 1152). The rotating shaft allows non-dynamic radial movements to be compensated, movements which may occur e.g. when using cable winches. Also, there is no need for the otherwise necessary alignment of joint heads during assembly.

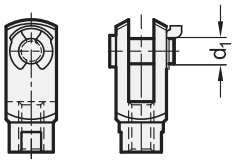
TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Strength values of nuts (see page A20)

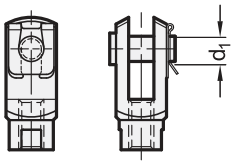
Type **A**



Type **KL**



Type **SL**



*Complete with type index of the Fork joints

A **KL** **SL**

GN 751.1

Description	d1 H9/h11	l1	d2	a	b	d3	l2	l3	l4	A/F	Static max. load in N ≈	⚖
GN 751.1-5-10-M5-*	5	10	M 5	10	5	9	20	26	4	7	800	9
GN 751.1-5-20-M5-*	5	20	M 5	10	5	9	30	36	4	7	800	12
GN 751.1-6-12-M6-*	6	12	M 6	12	6	10	24	31	5.5	9	2400	15
GN 751.1-6-24-M6-*	6	24	M 6	12	6	10	36	43	5.5	9	2400	22
GN 751.1-8-16-M8-*	8	16	M 8	16	8	14	32	42	8	12	3400	38
GN 751.1-8-32-M8-*	8	32	M 8	16	8	14	48	58	8	12	3400	53
GN 751.1-10-20-M10-*	10	20	M 10	20	10	18	40	52	11.5	16	6000	74
GN 751.1-10-40-M10-*	10	40	M 10	20	10	18	60	72	11.5	16	6000	102
GN 751.1-12-24-M12-*	12	24	M 12	24	12	20	48	62	14	18	14000	122
GN 751.1-12-48-M12-*	12	48	M 12	24	12	20	72	86	14	18	14000	174

Weight type A

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Fork joints

SPECIFICATION

Version in Steel

Types

Type **B**: Snap on spring pin
Type **KL**: Pin with KL-shaft safety
Type **SL**: Pin with SL-shaft safety
(only for d_1 = 4 ... 16)

Steel

- Tensile strength class 5
- zinc plated, blue passivated

Shaft safetys

- spring sheet metal
- hardened and tempered
- zinc plated, blue passivated

Version in Aluminium

Types

- Type **KL**: Pin with side mount ring
- Type **SL**: Pin with safety clip

Aluminium **AL**
anodized, black

KL- / SL-shaft safetys

- Spring steel
- hardened and tempered
- zinc plated, blue passivated

Version in Stainless Steel

Type

- Type **A**: Pin with reatining ring

Stainless Steel AISI 303 **NI**
uncoated

Safety circlip DIN 471
Stainless Steel
German Material No. 1.4122

INFORMATION

Fork joints GN 751 consist of a fork head according DIN 71752 and a pin with KL-shaft (Type KL and SL) a pin with snap-on spring (Type B). Both versions can be dismantled without tools and moniter.
Size d_1 = 12 is supplied with a fine thread M12x1.5 according to DIN. In practice, however, M12x1.25 is preferred. Standard DIN 71752 does not foresee size d_1 = 20.

ON REQUEST

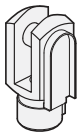
Fork heads in accordance with DIN 71752 (see page 1152) with d_1 = 25, 30, 35, 42 and 50 (only Steel Version).

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)

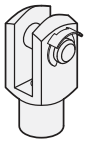
Types of fork joint shafts

Snap-on spring



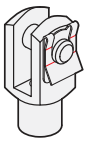
The snap-on spring pin is easily mounted and dismantled. It is therefore particularly suitable for applications where the articulated connection needs to be loosened often.

KL-shaft safety



The pin with side mount ring can be fitted and dismantled without tools, i. e. by hand.

SL-shaft safety



The pin with safety clip requires a tool for dismantling (e.g. a screw driver). It is therefore better secured.

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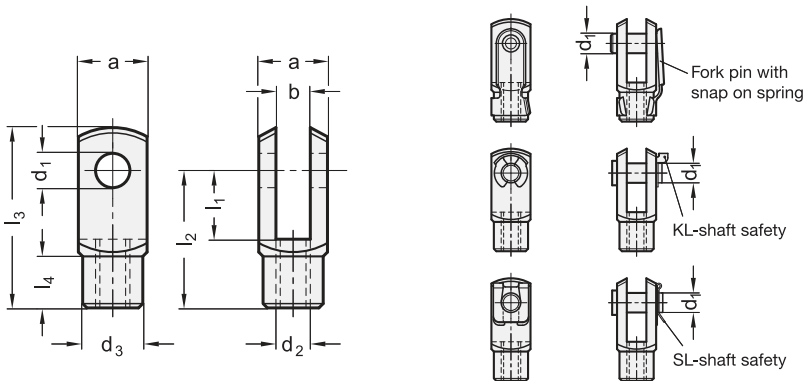
GN 751

Fork joints



*Complete with type index of Fork joints

B **KL** **SL**

GN 751-ST

Description	d1 H9/h11	l1	d2	a	b	d3	l2	l3	l4	⚖
GN 751-4-8-M4-*	4	8	M 4	8	4	8	16	21	6	7
GN 751-4-16-M4-*	4**	16	M 4	8	4	8	24	29	6	11
GN 751-5-10-M5L-*	5	10	M 5L	10	5	9	20	26	7.5	14
GN 751-5-10-M5-*	5	10	M 5	10	5	9	20	26	7.5	13
GN 751-5-20-M5L-*	5	20	M 5L	10	5	9	30	36	7.5	18
GN 751-5-20-M5-*	5	20	M 5	10	5	9	30	36	7.5	15
GN 751-6-12-M6L-*	6	12	M 6L	12	6	10	24	31	9	20
GN 751-6-12-M6-*	6	12	M 6	12	6	10	24	31	9	20
GN 751-6-24-M6L-*	6	24	M 6L	12	6	10	36	43	9	30
GN 751-6-24-M6-*	6	24	M 6	12	6	10	36	43	9	27
GN 751-8-16-M8L-*	8	16	M 8L	16	8	14	32	42	12	50
GN 751-8-16-M8F-*	8	16	M 8F = M8x1	16	8	14	32	42	12	49
GN 751-8-16-M8-*	8	16	M 8	16	8	14	32	42	12	48
GN 751-8-32-M8L-*	8	32	M 8L	16	8	14	48	58	12	65
GN 751-8-32-M8F-*	8	32	M 8F = M8x1	16	8	14	48	58	12	66
GN 751-8-32-M8-*	8	32	M 8	16	8	14	48	58	12	64
GN 751-10-20-M10L-*	10	20	M 10L	20	10	18	40	52	15	90
GN 751-10-20-M10F-*	10	20	M 10F = M10x1.25	20	10	18	40	52	15	90
GN 751-10-20-M10-*	10	20	M 10	20	10	18	40	52	15	93
GN 751-10-40-M10L-*	10	40	M 10L	20	10	18	60	72	15	120
GN 751-10-40-M10F-*	10	40	M 10F = M10x1.25	20	10	18	60	72	15	120
GN 751-10-40-M10-*	10	40	M 10	20	10	18	60	72	15	125
GN 751-12-24-M12L-*	12	24	M 12L	24	12	20	48	62	18	148
GN 751-12-24-M12F-*	12	24	M 12F = M12x1.25	24	12	20	48	62	18	151
GN 751-12-24-M12-*	12	24	M 12	24	12	20	48	62	18	140
GN 751-12-48-M12L-*	12	48	M 12L	24	12	20	72	86	18	206
GN 751-12-48-M12F-*	12	48	M 12F = M12x1.25	24	12	20	72	86	18	204
GN 751-12-48-M12-*	12	48	M 12	24	12	20	72	86	18	200
GN 751-14-28-M14L-*	14	28	M 14L	28	14	24	56	72	22.5	221
GN 751-14-28-M14F-*	14	28	M 14F = M14x1.5	28	14	24	56	72	22.5	218
GN 751-14-28-M14-*	14	28	M 14	28	14	24	56	72	22.5	219
GN 751-14-56-M14L-*	14	56	M 14L	28	14	24	85	101	22.5	302
GN 751-14-56-M14F-*	14	56	M 14F = M14x1.5	28	14	24	85	101	22.5	298
GN 751-14-56-M14-*	14	56	M 14	28	14	24	85	101	22.5	300
GN 751-16-32-M16L-*	16	32	M 16L	32	16	26	64	83	24	340
GN 751-16-32-M16F-*	16	32	M 16F = M16x1.5	32	16	26	64	83	24	340
GN 751-16-32-M16-*	16	32	M 16	32	16	26	64	83	24	339
GN 751-16-64-M16L-*	16	64	M 16L	32	16	26	96	115	24	467
GN 751-16-64-M16F-*	16	64	M 16F = M16x1.5	32	16	26	96	115	24	471
GN 751-16-64-M16-*	16	64	M 16	32	16	26	96	115	24	467
GN 751-20-40-M20L-*	20**	40	M 20L	40	20	34	80	105	30	675
GN 751-20-40-M20-*	20**	40	M 20	40	20	34	80	105	30	660

** in type B not available from stock

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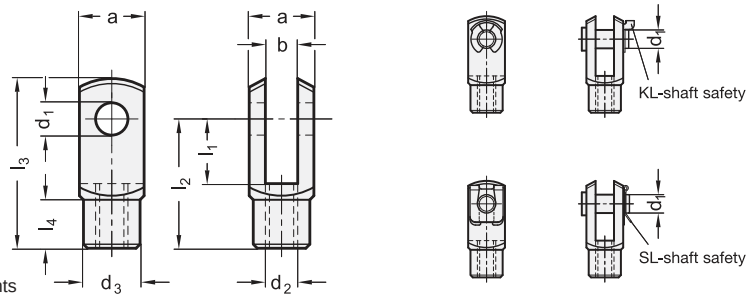
GN 751 | Fork joints



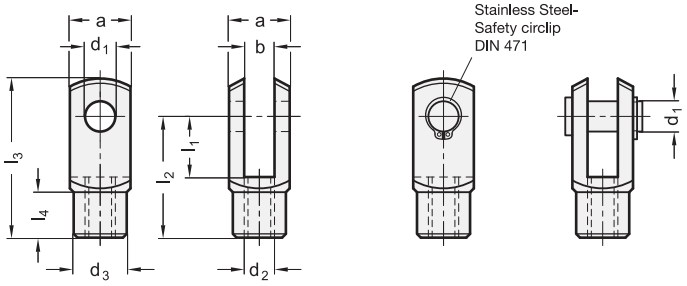
*Complete with type index of Fork joints

KL SL

GN 751-AL

Description	d1 H9/h11	l1	d2	a	b	d3	l2	l3	l4	⚖
GN 751-4-8-M4-*-AL	4	8	M 4	8	4	8	16	21	6	6
GN 751-4-16-M4-*-AL	4**	16	M 4	8	4	8	24	29	6	11
GN 751-5-10-M5-*-AL	5	10	M 5	10	5	9	20	26	7.5	10
GN 751-5-20-M5-*-AL	5**	20	M 5	10	5	9	30	36	7.5	18
GN 751-6-12-M6-*-AL	6	12	M 6	12	6	10	24	31	9	20
GN 751-6-24-M6-*-AL	6**	24	M 6	12	6	10	36	43	9	28
GN 751-8-16-M8-*-AL	8	16	M 8	16	8	14	32	42	12	48
GN 751-8-32-M8-*-AL	8**	32	M 8	16	8	14	48	58	12	62
GN 751-10-20-M10-*-AL	10	20	M 10	20	10	18	40	52	15	92
GN 751-10-40-M10-*-AL	10**	40	M 10	20	10	18	60	72	15	123
GN 751-12-24-M12-*-AL	12	24	M 12	24	12	20	48	62	18	144
GN 751-12-48-M12-*-AL	12**	48	M 12	24	12	20	72	86	18	197
GN 751-14-28-M14-*-AL	14	28	M 14	28	14	24	56	72	22.5	220
GN 751-14-56-M14-*-AL	14**	56	M 14	28	14	24	85	101	22.5	298
GN 751-16-32-M16-*-AL	16	32	M 16	32	16	26	64	83	24	335
GN 751-16-64-M16-*-AL	16**	64	M 16	32	16	26	96	115	24	460

** not available from stock, requires a minimum order quantity



GN 751-NI

STAINLESS STEEL

Description	d1 H9/h11	l1	d2	a	b	d3	l2	l3	l4	⚖
GN 751-4-8-M4-A-NI	4	8	M 4	8	4	8	16	21	6	6
GN 751-4-16-M4-A-NI	4	16	M 4	8	4	8	24	29	6	8
GN 751-5-10-M5-A-NI	5	10	M 5	10	5	9	20	26	7.5	10
GN 751-5-20-M5-A-NI	5	20	M 5	10	5	9	30	36	7.5	19
GN 751-6-12-M6-A-NI	6	12	M 6	12	6	10	24	31	9	20
GN 751-6-24-M6-A-NI	6	24	M 6	12	6	10	36	43	9	25
GN 751-8-16-M8-A-NI	8	16	M 8	16	8	14	32	42	12	46
GN 751-8-32-M8-A-NI	8	32	M 8	16	8	14	48	58	12	60
GN 751-10-20-M10-A-NI	10	20	M 10	20	10	18	40	52	15	85
GN 751-10-40-M10-A-NI	10	40	M 10	20	10	18	60	72	15	121
GN 751-12-24-M12-A-NI	12	24	M 12	24	12	20	48	62	18	145
GN 751-12-48-M12-A-NI	12	48	M 12	24	12	20	72	86	18	200
GN 751-14-28-M14-A-NI	14	28	M 14	28	14	24	56	72	22.5	220
GN 751-14-56-M14-A-NI	14	56	M 14	28	14	24	85	101	22.5	280
GN 751-16-32-M16-A-NI	16	32	M 16	32	16	26	64	83	24	328
GN 751-16-64-M16-A-NI	16	64	M 16	32	16	26	96	115	24	400
GN 751-20-40-M20-A-NI	20	40	M 20	40	20	34	80	105	30	680

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Forks

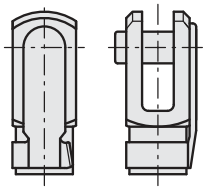
Technopolymer

MATERIAL
Glass-fibre reinforced polyamide based (PA) technopolymer.

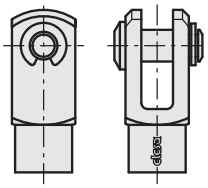
STANDARD EXECUTIONS
Threaded hole.
- **FJT+PC:** with clip pin.
- **FJT+S:** with pin and seeger ring.

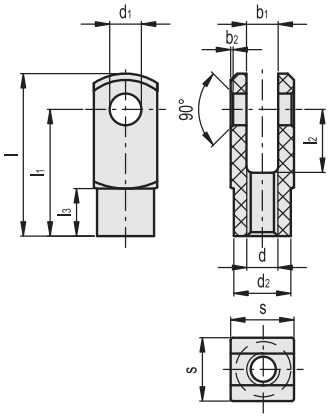
FEATURES AND APPLICATIONS
FJT. forks are remarkably suitable for actuation for example of pneumatic cylinders even when water and humidity are present.
Features of the technopolymer forks:
- totally corrosion resistant even when humidity and chemicals are present;
- high strength to saline mist;
- high mechanical strength to the applied loads;
- lightness combined with high-rigidity;
- resistant to continuous washing cycles with solvents and detergents, so they are suitable, for example, in applications in the food and pharmaceutical sectors;
- excellent shock-absorbing features;
- noise minimization.

FJT+PC



FJT+S





Resistance tests	Max static load under traction		Max transverse load	
Description	short term	continuous	short term	continuous
	[N]	[N]	[N]	[N]
FJT-M6	1300	650	300	150
FJT-M8	2100	1050	650	325
FJT-M10	3000	1500	800	400
FJT-M10x1.25	3000	1500	800	400
FJT-M12	3500	1750	900	450
FJT-M12x1.25	3500	1750	900	450
FJT-M14	6100	3050	1000	500

The strength values are the result of lab tests carried out under room temperature (23°C).

FJT-PC

Code	Description	d6H	d1	d2	l	l1	l2	l3	b1	b2	s	⚖
470201	FJT-M6+PC	M6	6	10	31	24	12	9	6	0.5	12	4
470211	FJT-M8+PC	M8	8	14	42	32	16	12	8	0.5	16	9
470221	FJT-M10+PC	M10	10	18	52	40	20	15	10	0.5	20	16
470222	FJT-M10x1.25+PC	M10x1.25	10	18	52	40	20	15	10	0.5	20	16
470231	FJT-M12+PC	M12	12	20	62	48	24	18	12	0.5	24	28
470232	FJT-M12x1.25+PC	M12x1.25	12	20	62	48	24	18	12	0.5	24	28
470241	FJT-M14+PC	M14	14	24	72	56	28	22.5	14	0.5	27	42

FJT-S

Code	Description	d6H	d1	d2	l	l1	l2	l3	b1	b2	s	⚖
470301	FJT-M6+S	M6	6	10	31	24	12	9	6	0.5	12	3
470311	FJT-M8+S	M8	8	14	42	32	16	12	8	0.5	16	8
470321	FJT-M10+S	M10	10	18	52	40	20	15	10	0.5	20	15
470322	FJT-M10x1.25+S	M10x1.25	10	18	52	40	20	15	10	0.5	20	15
470331	FJT-M12+S	M12	12	20	62	48	24	18	12	0.5	24	25
470332	FJT-M12x1.25+S	M12x1.25	12	20	62	48	24	18	12	0.5	24	25
470341	FJT-M14+S	M14	14	24	72	56	28	22.5	14	0.5	27	41

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DIN 71752

Fork heads

SPECIFICATION

Version in Steel

Steel

- Tensile strength class 5
- zinc plated, blue passivated

Version in Aluminium

Aluminium **AL**
anodized, black

Version in Stainless Steel

Stainless Steel AISI 303 **NI**
blank

INFORMATION

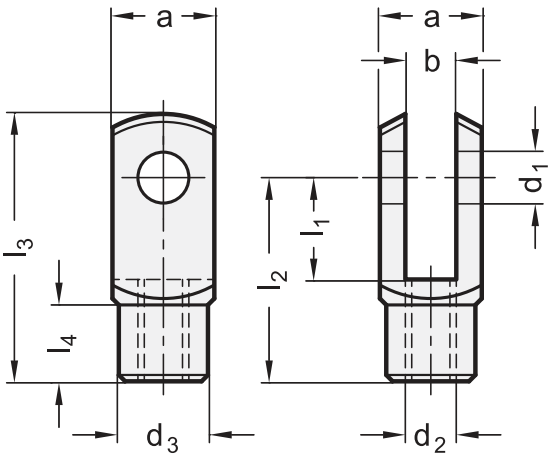
Size d_1= 12 is supplied with a fine thrad M12 x1.5 according to DIN. In practice, however, M12 x1.25 is preferred. DIN 71752 does not foresee size d_1= 20.

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Strength values of nuts (see page A20)

ON REQUEST

- Fork heads in accordance with DIN 71752 with d_1 = 25, 30, 35, 42 and 50 (only Steel-Version)
- Fork heads in accordane with DIN 71752 with d_1 = 30 and 35 (only Stainless Steel-Version)



*Complete with type index of the Fork heads (AL or NI)

AL	NI
Aluminium	Stainless Steel

DIN 71752 — **STAINLESS STEEL**

Description	d_1 H9/h11	l_1	d_2	a	b	d_3	l_2	l_3	l_4
DIN 71752-4-8-M4-*	4**	8	M 4	8	4	8	16	21	6
DIN 71752-4-16-M4-*	4**	16	M 4	8	4	8	24	29	6
DIN 71752-5-10-M5-*	5**	10	M 5	10	5	9	20	26	7.5
DIN 71752-5-20-M5-*	5**	20	M 5	10	5	9	30	36	7.5
DIN 71752-6-12-M6-*	6**	12	M 6	12	6	10	24	31	9
DIN 71752-6-24-M6-*	6**	24	M 6	12	6	10	36	43	9
DIN 71752-8-16-M8-*	8**	16	M 8	16	8	14	32	42	12
DIN 71752-8-32-M8-*	8**	32	M 8	16	8	14	48	58	12
DIN 71752-10-20-M10-*	10**	20	M 10	20	10	18	40	52	15
DIN 71752-10-40-M10-*	10**	40	M 10	20	10	18	60	72	15
DIN 71752-12-24-M12-*	12**	24	M 12	24	12	20	48	62	18
DIN 71752-12-48-M12-*	12**	48	M 12	24	12	20	72	86	18
DIN 71752-14-28-M14-*	14**	28	M 14	28	14	24	56	72	22.5
DIN 71752-14-56-M14-*	14**	56	M 14	28	14	24	85	101	22.5
DIN 71752-16-32-M16-*	16**	32	M 16	32	16	26	64	83	24
DIN 71752-16-64-M16-*	16**	64	M 16	32	16	26	96	115	24
DIN 71752-20-40-M20-*	20**	40	M 20	40	20	34	80	105	30

Weight type AL

** Aluminium not available from stock, requires a minimum order quantity

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DIN 71752 | Fork joints

DIN 71752-Steel

Description	d1 H9/h11	l1	d2	a	b	d3	l2	l3	l4	⚖
DIN 71752-4-8-M4	4	8	M 4	8	4	8	16	21	6	5
DIN 71752-4-16-M4	4	16	M 4	8	4	8	24	29	6	7
DIN 71752-5-10-M5	5	10	M 5	10	5	9	20	26	7.5	9
DIN 71752-5-10-M5L	5	10	M 5L	10	5	9	20	26	7.5	9
DIN 71752-5-20-M5	5	20	M 5	10	5	9	30	36	7.5	13
DIN 71752-5-20-M5L	5	20	M 5L	10	5	9	30	36	7.5	13
DIN 71752-6-12-M6	6	12	M 6	12	6	10	24	31	9	14
DIN 71752-6-12-M6L	6	12	M 6L	12	6	10	24	31	9	11
DIN 71752-6-24-M6	6	24	M 6	12	6	10	36	43	9	21
DIN 71752-6-24-M6L	6	24	M 6L	12	6	10	36	43	9	21
DIN 71752-8-16-M8	8	16	M 8	16	8	14	32	42	12	36
DIN 71752-8-16-M8L	8	16	M 8L	16	8	14	32	42	12	36
DIN 71752-8-16-M8F	8	16	M 8F = M8x1	16	8	14	32	42	12	36
DIN 71752-8-32-M8	8	32	M 8	16	8	14	48	58	12	52
DIN 71752-8-32-M8L	8	32	M 8L	16	8	14	48	58	12	52
DIN 71752-8-32-M8F	8	32	M 8F = M8x1	16	8	14	48	58	12	52
DIN 71752-10-20-M10	10	20	M 10	20	10	18	40	52	15	72
DIN 71752-10-20-M10L	10	20	M 10L	20	10	18	40	52	15	72
DIN 71752-10-20-M10F	10	20	M 10F = M10x1.25	20	10	18	40	52	15	72
DIN 71752-10-40-M10	10	40	M 10	20	10	18	60	72	15	102
DIN 71752-10-40-M10L	10	40	M 10L	20	10	18	60	72	15	102
DIN 71752-10-40-M10F	10	40	M 10F = M10x1.25	20	10	18	60	72	15	102
DIN 71752-12-24-M12	12	24	M 12	24	12	20	48	62	18	117
DIN 71752-12-24-M12L	12	24	M 12L	24	12	20	48	62	18	117
DIN 71752-12-24-M12F	12	24	M 12F = M12x1.25	24	12	20	48	62	18	117
DIN 71752-12-48-M12	12	48	M 12	24	12	20	72	86	18	165
DIN 71752-12-48-M12L	12	48	M 12L	24	12	20	72	86	18	165
DIN 71752-12-48-M12F	12	48	M 12F = M12x1.25	24	12	20	72	86	18	165
DIN 71752-14-28-M14	14	28	M 14	28	14	24	56	72	22.5	171
DIN 71752-14-28-M14L	14	28	M 14L	28	14	24	56	72	22.5	171
DIN 71752-14-28-M14F	14	28	M 14F = M14x1.5	28	14	24	56	72	22.5	171
DIN 71752-14-56-M14	14	56	M 14	28	14	24	85	101	22.5	248
DIN 71752-14-56-M14L	14	56	M 14L	28	14	24	85	101	22.5	248
DIN 71752-14-56-M14F	14	56	M 14F = M14x1.5	28	14	24	85	101	22.5	248
DIN 71752-16-32-M16	16	32	M 16	32	16	26	64	83	24	267
DIN 71752-16-32-M16L	16	32	M 16L	32	16	26	64	83	24	267
DIN 71752-16-32-M16F	16	32	M 16F = M16x1.5	32	16	26	64	83	24	267
DIN 71752-16-64-M16	16	64	M 16	32	16	26	96	115	24	393
DIN 71752-16-64-M16L	16	64	M 16L	32	16	26	96	115	24	393
DIN 71752-16-64-M16F	16	64	M 16F = M16x1.5	32	16	26	96	115	24	393
DIN 71752-20-40-M20	20	40	M 20	40	20	34	80	105	30	520
DIN 71752-20-40-M20L	20	40	M 20L	40	20	34	80	105	30	520

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Joint pieces

Steel / Stainless Steel, for fork joints GN 751

SPECIFICATION

Steel

- Tensile strength class 5
- zinc plated, blue passivated

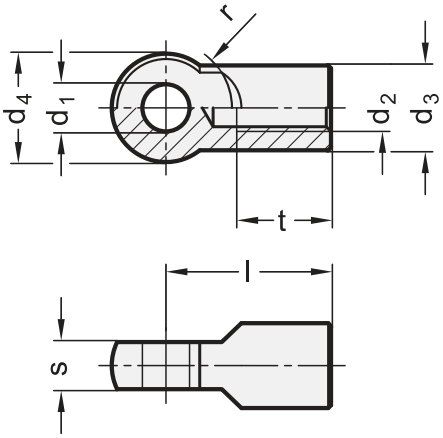
Stainless Steel AISI 303 **NI**

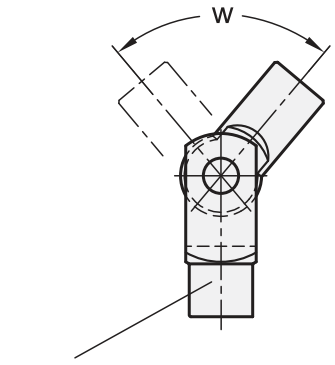
INFORMATION

Joint pieces GN 752 are designed to be used in combination with for heads DIN 71752 (see page 1152) and GN 751 (see page 1148) respectively fork joints.

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Strength values of nuts (see page A20)





Fork joint GN 751

GN 752

Description	d1 H9	d2	d3	d4	l	r	s -0.2	t min.	w min.	⚖
GN 752-6-M6	6	M 6	10	14	22	8.5	6	12	218°	11
GN 752-8-M8	8	M 8	14	18	29	12	8	16	218°	27
GN 752-10-M10	10	M 10	18	23	35	14	10	20	212°	56
GN 752-12-M12	12	M 12	20	27	43	17	12	24	216°	88
GN 752-14-M14	14	M 14	24	30	50	19	14	28	214°	100
GN 752-16-M16	16	M 16	26	36	56	22	16	32	216°	197

GN 752-NI **STAINLESS STEEL**

Description	d1 H9	d2	d3	d4	l	r	s -0.2	t min.	w min.	⚖
GN 752-6-M6-NI	6	M 6	10	14	22	8.5	6	12	218°	11
GN 752-8-M8-NI	8	M 8	14	18	29	12	8	16	218°	28
GN 752-10-M10-NI	10	M 10	18	23	35	14	10	20	212°	56
GN 752-12-M12-NI	12	M 12	20	27	43	17	12	24	216°	88
GN 752-14-M14-NI	14	M 14	24	30	50	19	14	28	214°	141
GN 752-16-M16-NI	16	M 16	26	36	56	22	16	32	216°	197

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Angled ball joints

with threaded ball and rivet ball shanks

SPECIFICATION

Version in Steel

Types

- Type **CS**: with threaded ball shank with safety catch
- Type **C**: with threaded ball shank without safety catch
- Type **BS**: with rivet ball shank, with safety catch
- Type **B**: with rivet ball shank, without safety catch

Steel

- Tensile strength class 5
- zinc plated, colourless passivated

Ball
Steel

- hardened
- ball seat lubricated

Version in Stainless Steel

Types

- Type **CSN**: with threaded ball shank, with safety catch
- Type **CN**: with threaded ball shank, without safety catch

Stainless Steel AISI 303

Ball
Stainless Steel

- not hardened
- ball seat greased

INFORMATION

Angled ball joints DIN 71802 consist of a ball socket DIN 71805 and a ball shank DIN 71803.
The angle of rotation for the type with safety catch (Types CS, BS, CSN) ist 15°, without safety catch (Types C, B, CN) is 18°.
For assembly the ball ist pushed through the circlip which acts as a retainer. Should the retaining force (see pull-off force in the table above) between ball and socket not be sufficient, this can be increased by adding a safety catch, which can easily be fitted.
To protect the angled ball point, a dust cap GN 710 (see page 1158) can be added.
The hexagon nut is part of the angled ball joints.
Dust caps GN 710 (see page 1158) have to be ordered seperately.

ON REQUEST

- smooth specification (Ball seat with play)
- Ball studs DIN 71803
- Ball sockets DIN 71805
- Axial joints (ball socket and ball shank in one axis)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel characteristics (see page A26)
- Strength values of nuts (see page A20)

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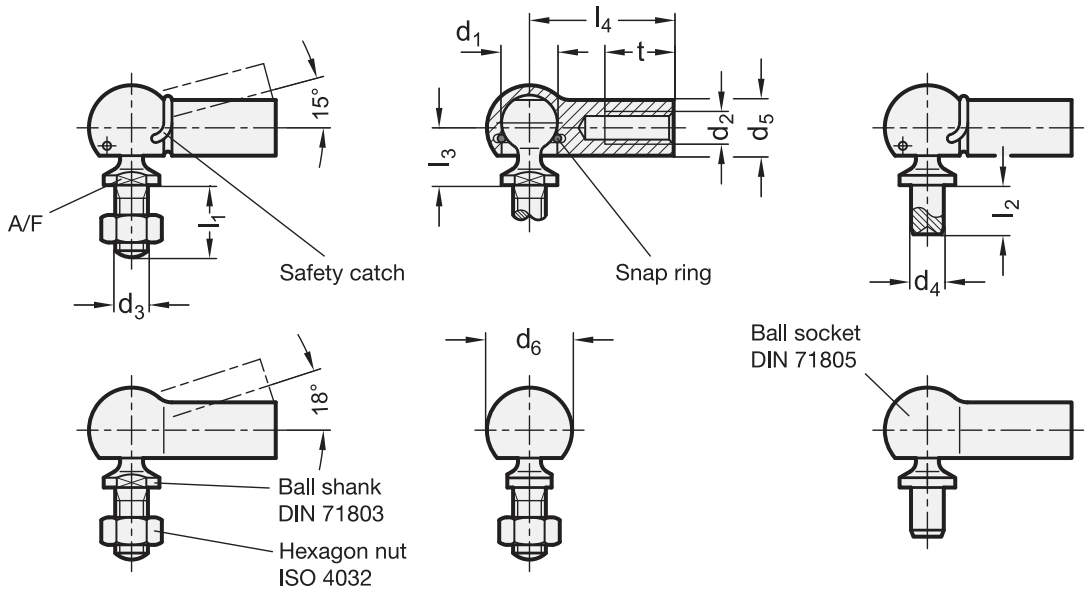
DIN 71802 | Angled ball joints



*Complete with type index of the Angled ball joints

BS **B**

DIN 71802-B/BS

Description	d1 H9/h9	d2	l2	d4 h11	d5	d6	l3	l4	t min.	A/F	min. pull-off force in N	⚖
DIN 71802-8-M5L-4-*	8	M 5L	4	5	8	12.8	8.5	22	10.5	7	30	13
DIN 71802-8-M5-4-*	8	M 5	4	5	8	12.8	8.5	22	10.5	7	30	13
DIN 71802-8-M5L-7,5-*	8	M 5L	7.5	5	8	12.8	8.5	22	10.5	7	30	14
DIN 71802-8-M5-7,5-*	8	M 5	7.5	5	8	12.8	8.5	22	10.5	7	30	14
DIN 71802-10-M6L-4,5-*	10	M 6L	4.5	6	10	14.8	10.5	25	11.5	8	40	20
DIN 71802-10-M6-4,5-*	10	M 6	4.5	6	10	14.8	10.5	25	11.5	8	40	20
DIN 71802-10-M6L-8-*	10	M 6L	8	6	10	14.8	10.5	25	11.5	8	40	23
DIN 71802-10-M6-8-*	10	M 6	8	6	10	14.8	10.5	25	11.5	8	40	23
DIN 71802-13-M8L-5-*	13	M 8L	5	8	13	19.3	12	30	14	11	60	44
DIN 71802-13-M8-5-*	13	M 8	5	8	13	19.3	12	30	14	11	60	44
DIN 71802-13-M8L-10-*	13	M 8L	10	8	13	19.3	12	30	14	11	60	46
DIN 71802-13-M8-10-*	13	M 8	10	8	13	19.3	12	30	14	11	60	47
DIN 71802-16-M10L-6-*	16	M 10L	6	10	16	24	15	35	15.5	13	80	80
DIN 71802-16-M10-6-*	16	M 10	6	10	16	24	15	35	15.5	13	80	88
DIN 71802-16-M10L-13-*	16	M 10L	13	10	16	24	15	35	15.5	13	80	80
DIN 71802-16-M10-13-*	16	M 10	13	10	16	24	15	35	15.5	13	80	89
DIN 71802-16-M12L-6-*	16	M 12L	6	10	16	24	15	35	15.5	13	80	90
DIN 71802-16-M12-6-*	16	M 12	6	10	16	24	15	35	15.5	13	80	96
DIN 71802-16-M12L-13-*	16	M 12L	13	10	16	24	15	35	15.5	13	80	80
DIN 71802-16-M12-13-*	16	M 12	13	10	16	24	15	35	15.5	13	80	80
DIN 71802-19-M14FL-12-*	19	M 14FL	12	14	22	30	19.5	45	21.5	16	100	200
DIN 71802-19-M14F-12-*	19	M 14F	12	14	22	30	19.5	45	21.5	16	100	200
DIN 71802-19-M14FL-18-*	19	M 14FL	18	14	22	30	19.5	45	21.5	16	100	190
DIN 71802-19-M14F-18-*	19	M 14F	18	14	22	30	19.5	45	21.5	16	100	190

Weight type B

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DIN 71802 | Angled ball joints

*Complete with type index of the Angled ball joints
CS C

DIN 71802-C/CS

Description	d1 H9/ h9	d2	d3	d5	d6	l1	l3	l4	t min.	A/F	min. pull-off force in N	⚖
DIN 71802-8-M5-*	8	M 5	M 5	8	12.8	10	8.5	22	10.5	7	30	14
DIN 71802-8-M5L-*	8	M 5L	M 5	8	12.8	10	8.5	22	10.5	7	30	15
DIN 71802-10-M6-*	10	M 6	M 6	10	14.8	12.5	10.5	25	11.5	8	40	25
DIN 71802-10-M6L-*	10	M 6L	M 6	10	14.8	12.5	10.5	25	11.5	8	40	25
DIN 71802-13-M8-*	13	M 8	M 8	13	19.3	16.5	12	30	14	11	60	49
DIN 71802-13-M8L-*	13	M 8L	M 8	13	19.3	16.5	12	30	14	11	60	50
DIN 71802-16-M10-*	16	M 10	M 10	16	24	20	15	35	15.5	13	80	90
DIN 71802-16-M10L-*	16	M 10L	M 10	16	24	20	15	35	15.5	13	80	95
DIN 71802-16-M12-*	16	M 12	M 12	16	24	20	15	35	15.5	13	80	100
DIN 71802-16-M12L-*	16	M 12L	M 12	16	24	20	15	35	15.5	13	80	100
DIN 71802-19-M14F-*	19	M 14F = M 14x1.5L	M 14 x 1.5	22	30	28	19.5	45	21.5	16	100	217
DIN 71802-19-M14FL-*	19	M 14 FL = M 14x1.5 L	M 14 x 1.5	22	30	28	19.5	45	21.5	16	100	220

Weight type C

*Complete with type index of the Angled ball joints
CSN CN

DIN 71802-CN/CSN

STAINLESS STEEL

Description	d1 H9/ h9	d2	d3	d5	d6	l1	l3	l4	t min.	A/F	min. pull-off force in N	⚖
DIN 71802-8-M5-*	8	M 5	M 5	8	12.8	10	8.5	22	10.5	7	30	10
DIN 71802-8-M5L-*	8	M 5L	M 5	8	12.8	10	8.5	22	10.5	7	30	15
DIN 71802-10-M6-*	10	M 6	M 6	10	14.8	12.5	10.5	25	11.5	8	40	20
DIN 71802-10-M6L-*	10	M 6L	M 6	10	14.8	12.5	10.5	25	11.5	8	40	25
DIN 71802-13-M8-*	13	M 8	M 8	13	19.3	16.5	12	30	14	11	60	50
DIN 71802-13-M8L-*	13	M 8L	M 8	13	19.3	16.5	12	30	14	11	60	50
DIN 71802-16-M10-*	16	M 10	M 10	16	24	20	15	35	15.5	13	80	98
DIN 71802-16-M10L-*	16	M 10L	M 10	16	24	20	15	35	15.5	13	80	95
DIN 71802-16-M12-*	16	M 12	M 12	16	24	20	15	35	15.5	13	80	102
DIN 71802-16-M12L-*	16	M 12L	M 12	16	24	20	15	35	15.5	13	80	102
DIN 71802-19-M14F-*	19	M 14F = M 14x1.5L	M 14 x 1.5	22	30	28	19.5	45	21.5	16	100	218
DIN 71802-19-M14FL-*	19	M 14 FL = M 14x1.5 L	M 14 x 1.5	22	30	28	19.5	45	21.5	16	100	219

Weight type CN

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Dust caps

for angled ball joints DIN 71802

SPECIFICATION

Rubber

- temperature resistant up to 110 °C
- black

INFORMATION

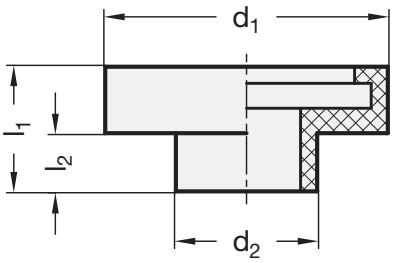
Dust caps GN 710 prevent the entering of dirt into angled ball joints DIN 71802 (see page 1155).

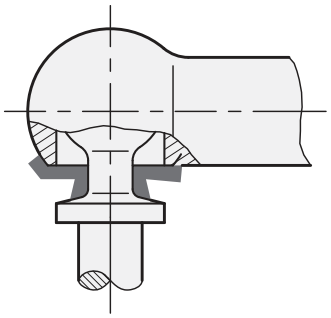
ON REQUEST

- Angled ball joints with mounted dust cap

TECHNICAL INFORMATION

- Elastomer characteristics (see page A32)





GN 710

Description	d1	d2	l1	l2	For angeled ball joints DIN 71802 Size (d1)	⚖
GN 710-12	12	5.5	4.5	1.5	8	1
GN 710-13,5	13.5	7	6.5	3.5	10	1
GN 710-17,5	17.5	8.5	7.5	3.5	13	1
GN 710-22	22	10.5	8.5	4.5	16	2
GN 710-25,5	25.5	12.5	12.5	7	19	2

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GN 782

Axial ball joints

SPECIFICATION

Types

- Type **KS**: Ball with male thread
- Type **KI**: Ball with female thread

Identification No.

- No. **1**: Mounting socket with female thread
- No. **2**: Mounting socket with male thread

Steel
zinc plated, blue passivated

Brake piece
Technopolymer (Polyamide PA)

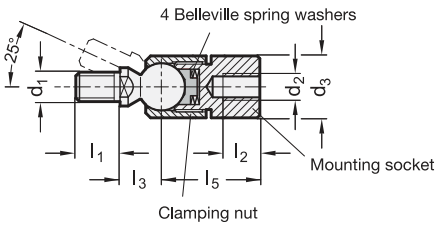
INFORMATION

The clamping nut of the axial ball joints GN 782 can be set to give a required thrust on the Belleville spring washers in order to increase the resistance to the ball movement.
At the same time the Belleville spring washers act as safety washers for the screws.
Once the max. thrust to the Belleville spring washers is reached the ball arm is firmly immobilised in position over the clamping nut and screw.

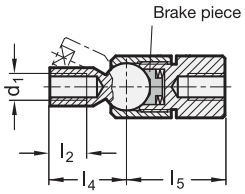
TECHNICAL INFORMATION

- Plastic characteristics (see page A2)

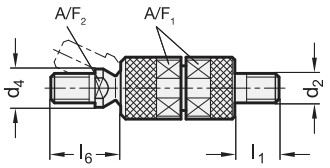
Version **KS-1**



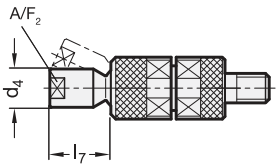
Version **KI-1**



Version **KS-2**



Version **KI-2**



GN 782

Description	d1	d2	d3	d4	l1	l2	l3	l4	l5 +1.0/-0.3	l6 ≈	l7 ≈	A/F 1	A/F 2	recommended tightening torque in Nm≈	⚖
GN 782-M6-KS-1	M 6	M 6	17	8.5	10	8	11	20	25	16.8	16	15	7	15	46
GN 782-M6-KI-1	M 6	M 6	17	8.5	10	8	11	20	25	16.8	16	15	7	15	46
GN 782-M8-KS-1	M 8	M 8	19	11	12	10	12.5	23	29.5	19.5	18	17	9	20	68
GN 782-M8-KI-1	M 8	M 8	19	11	12	10	12.5	23	29.5	19.5	18	17	9	20	67
GN 782-M10-KS-1	M 10	M 10	21	13	15	12	14	26	33.5	23.5	20	19	11	35	95
GN 782-M10-KI-1	M 10	M 10	21	13	15	12	14	26	33.5	23.5	20	19	11	35	95
GN 782-M12-KS-1	M 12	M 12	28	16	18	15	20	34	44	27.7	28	25	14	45	220
GN 782-M12-KI-1	M 12	M 12	28	16	18	15	20	34	44	27.7	28	25	14	45	220
GN 782-M6-KS-2	M 6	M 6	17	8.5	10	8	11	20	25	16.8	16	15	7	15	50
GN 782-M6-KI-2	M 6	M 6	17	8.5	10	8	11	20	25	16.8	16	15	7	15	50
GN 782-M8-KS-2	M 8	M 8	19	11	12	10	12.5	23	29.5	19.5	18	17	9	20	76
GN 782-M8-KI-2	M 8	M 8	19	11	12	10	12.5	23	29.5	19.5	18	17	9	20	75
GN 782-M10-KS-2	M 10	M 10	21	13	15	12	14	26	33.5	23.5	20	19	11	35	110
GN 782-M10-KI-2	M 10	M 10	21	13	15	12	14	26	33.5	23.5	20	19	11	35	108
GN 782-M12-KS-2	M 12	M 12	28	16	18	15	20	34	44	27.7	28	25	14	45	252
GN 782-M12-KI-2	M 12	M 12	28	16	18	15	20	34	44	27.7	28	25	14	45	252

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Swivel ball joints

Aluminum

SPECIFICATION

Types

- Type **A**: Ball with female thread
- Type **B**: Ball with male thread

Identification no.

- No. **1**: Clamping with adjustable hand lever (only for d_1 = 39 and 49)
- No. **2**: Clamping set with screw

Housing
Aluminum
anodized black **ELS**

Base plate, ball
Aluminium, blank

Adjustable hand lever (Identification no. 1)

- Zinc die casting, plastic coated, silver RAL 9006, textured finish
- Threaded stud and retaining screw, Stainless Steel AISI 303

Set screw (Identification no. 2)
Stainless Steel AISI 304

INFORMATION

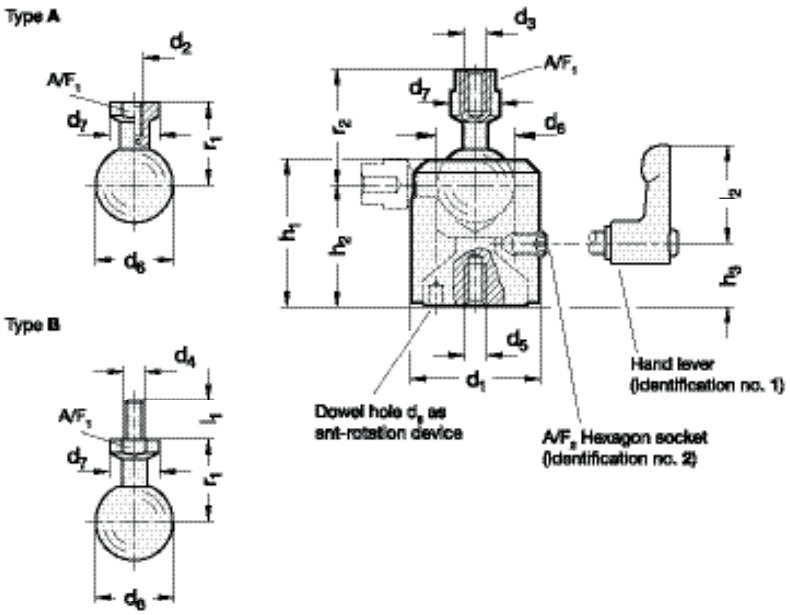
GN 784 swivel ball joints allow precise and variable adjustment of the ball pivot within the rotation range. This is a particular advantage when adjusting scanners, cameras, lighting, monitors, etc.
Thanks to the efficient clamping mechanism, only small amounts of torque on the clamping screw result in comparatively strong clamping pressure on the ball. This force is easily applied by the clamping lever (Identification no. 1).
The ball joint can be mounted from below with the d_4 internal thread or together with the GN 784.1 (see page 1162) flange, available as an accessory, using three through-holes from above.
For a permanent high stop torque, the contact surfaces of the balls must be kept free of grease. Exceeding the recommended tightening torque increases the securing of the ball joint in its end position, but may result in increased wear and potential failure of the clamping mechanism.

ON REQUEST

- Clamping with star knob DIN 6335 (see page 234)

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)



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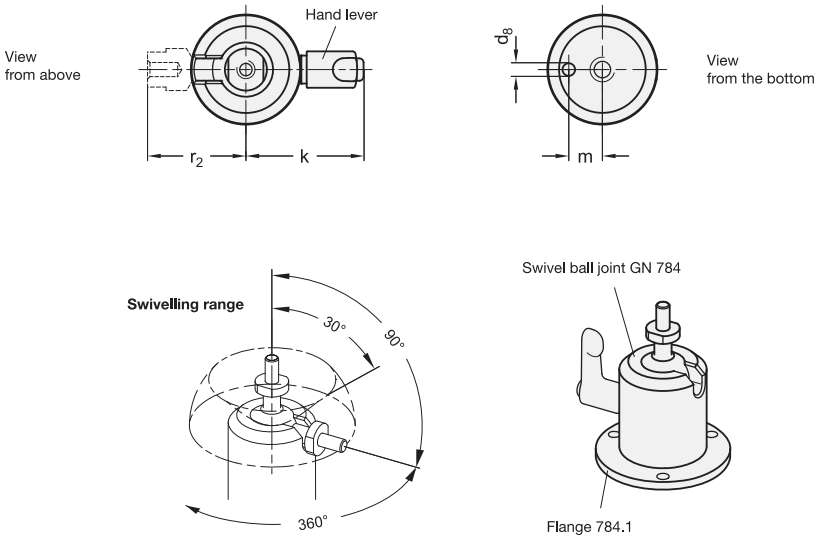
GN 784

Swivel ball joints



GN 784

Description	d1	d2	r1	d3	r2	d4	l1	d5	d6	d7	d8	h1	h2	h3	k	l2	m	A/F 1	A/F 2	Tigh-tening torque in Nm ≈	Stop torque on the ball in Nm≈	⚖
GN 784-23-M4-A-2-ELS	23	M 4*	17.3	-	-	-	-	M 5***	14	11	2.5	26.6	21.7	10.6	-	-	7	9	2.5	1.5	4.5	30
GN 784-23-M5-A-2-ELS	23	-	-	M 5**	24.8	-	-	M 5***	14	11	2.5	26.6	21.7	10.6	-	-	7	9	2.5	1.5	4.5	35
GN 784-23-1/4-A-2-ELS	23	-	-	1/4**	24.8	-	-	M 5***	14	11	2.5	26.6	21.7	10.6	-	-	7	9	2.5	1.5	4.5	30
GN 784-31-M5-A-2-ELS	31	M 5*	21.5	-	-	-	-	M 6***	18	14	3.5	35.5	29.6	14.9	-	-	9	12	3	2.5	6.5	70
GN 784-31-M6-A-2-ELS	31	-	-	M 6**	32.5	-	-	M 6***	18	14	3.5	35.5	29.6	14.9	-	-	9	12	3	2.5	6.5	70
GN 784-31-1/4-A-2-ELS	31	-	-	1/4**	32.5	-	-	M 6***	18	14	3.5	35.5	29.6	14.9	-	-	9	12	3	2.5	6.5	73
GN 784-39-M5-A-1-ELS	39	M 5*	25.5	-	-	-	-	M 8***	24	15	4.5	45	37.2	18.9	44	30	12	13	-	4	16	159
GN 784-39-M5-A-2-ELS	39	M 5*	25.5	-	-	-	-	M 8***	24	15	4.5	45	37.2	18.9	-	-	12	13	4	4	16	159
GN 784-39-M6-A-1-ELS	39	-	-	M 6**	36.2	-	-	M 8***	24	15	4.5	45	37.2	18.9	44	30	12	13	-	4	16	164
GN 784-39-M6-A-2-ELS	39	-	-	M 6**	36.2	-	-	M 8***	24	15	4.5	45	37.2	18.9	-	-	12	13	4	4	16	150
GN 784-39-M8-A-1-ELS	39	-	-	M 8**	40.5	-	-	M 8***	24	15	4.5	45	37.2	18.9	44	30	12	13	-	4	16	165
GN 784-39-M8-A-2-ELS	39	-	-	M 8**	40.5	-	-	M 8***	24	15	4.5	45	37.2	18.9	-	-	12	13	4	4	16	130
GN 784-39-3/8-A-1-ELS	39	-	-	3/8***	40.5	-	-	M 8***	24	15	4.5	45	37.2	18.9	44	30	12	13	-	4	16	133
GN 784-39-3/8-A-2-ELS	39	-	-	3/8***	40.5	-	-	M 8***	24	15	4.5	45	37.2	18.9	-	-	12	13	4	4	16	128
GN 784-49-M8-A-1-ELS	49	M 8*	30.8	-	-	-	-	M 8***	28	19.5	4.5	56	46.1	24	49	30	16	17	-	4	20	285
GN 784-49-M8-A-2-ELS	49	M 8*	30.8	-	-	-	-	M 8***	28	19.5	4.5	56	46.1	24	-	-	16	17	4	4	20	260
GN 784-49-3/8-A-1-ELS	49	-	-	3/8***	44.8	-	-	M 8***	28	19.5	4.5	56	46.1	24	49	30	16	17	-	4	20	290
GN 784-49-3/8-A-2-ELS	49	-	-	3/8***	44.8	-	-	M 8***	28	19.5	4.5	56	46.1	24	-	-	16	17	4	4	20	274
GN 784-49-M10-A-1-ELS	49	-	-	M 10**	51.8	-	-	M 8***	28	19.5	4.5	56	46.1	24	49	30	16	17	-	4	20	300
GN 784-49-M10-A-2-ELS	49	-	-	M 10**	51.8	-	-	M 8***	28	19.5	4.5	56	46.1	24	-	-	16	17	4	4	20	275
GN 784-23-M5-B-2-ELS	23	-	17.3	-	-	M 5	8	M 5***	14	11	2.5	26.6	21.7	10.6	-	-	7	9	2.5	1.5	4.5	32
GN 784-23-M6-B-2-ELS	23	-	17.3	-	-	M 6	10	M 5***	14	11	2.5	26.6	21.7	10.6	-	-	7	9	2.5	1.5	4.5	40
GN 784-23-1/4-B-2-ELS	23	-	17.3	-	-	1/4	10	M 5***	14	11	2.5	26.6	21.7	10.6	-	-	7	9	2.5	1.5	4.5	29
GN 784-31-M6-B-2-ELS	31	-	21.5	-	-	M 6	10	M 6***	18	14	3.5	35.5	29.6	14.9	-	-	9	12	3	2.5	6.5	80
GN 784-31-M8-B-2-ELS	31	-	21.5	-	-	M 8	12	M 6***	18	14	3.5	35.5	29.6	14.9	-	-	9	12	3	2.5	6.5	80
GN 784-31-1/4-B-2-ELS	31	-	21.5	-	-	1/4	10	M 6***	18	14	3.5	35.5	29.6	14.9	-	-	9	12	3	2.5	6.5	70
GN 784-39-M6-B-1-ELS	39	-	25.5	-	-	M 6	10	M 8***	24	15	4.5	45	37.2	18.9	44	30	12	13	-	4	16	160
GN 784-39-M6-B-2-ELS	39	-	25.5	-	-	M 6	10	M 8***	24	15	4.5	45	37.2	18.9	-	-	12	13	4	4	16	130
GN 784-39-M8-B-1-ELS	39	-	25.5	-	-	M 8	12	M 8***	24	15	4.5	45	37.2	18.9	44	30	12	13	-	4	16	161
GN 784-39-M8-B-2-ELS	39	-	25.5	-	-	M 8	12	M 8***	24	15	4.5	45	37.2	18.9	-	-	12	13	4	4	16	160
GN 784-39-3/8-B-1-ELS	39	-	25.5	-	-	3/8	12	M 8***	24	15	4.5	45	37.2	18.9	44	30	12	13	-	4	16	165
GN 784-39-3/8-B-2-ELS	39	-	25.5	-	-	3/8	12	M 8***	24	15	4.5	45	37.2	18.9	-	-	12	13	4	4	16	165
GN 784-49-M8-B-1-ELS	49	-	30.8	-	-	M 8	12	M 8***	28	19.5	4.5	56	46.1	24	49	30	16	17	-	4	20	289
GN 784-49-M8-B-2-ELS	49	-	30.8	-	-	M 8	12	M 8***	28	19.5	4.5	56	46.1	24	-	-	16	17	4	4	20	287
GN 784-49-M10-B-1-ELS	49	-	30.8	-	-	M 10	15	M 8***	28	19.5	4.5	56	46.1	24	49	30	16	17	-	4	20	290
GN 784-49-M10-B-2-ELS	49	-	30.8	-	-	M 10	15	M 8***	28	19.5	4.5	56	46.1	24	-	-	16	17	4	4	20	264
GN 784-49-3/8-B-1-ELS	49	-	30.8	-	-	3/8	12	M 8***	28	19.5	4.5	56	46.1	24	49	30	16	17	-	4	20	294
GN 784-49-3/8-B-2-ELS	49	-	30.8	-	-	3/8	12	M 8***	28	19.5	4.5	56	46.1	24	-	-	16	17	4	4	20	294

*usable depth of thread min. 1.5 x d_2 | ** usable depth of thread min. 1.5 x d_3 | *** usable depth of thread min. 1.5 x d_5

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Flanges

for mounting clamps with swivel ball joint GN 784

SPECIFICATION

Stainless Steel AISI 304
matte, tumbled finish **MT**

Countersunk screw DIN 7991
Stainless Steel AISI 304

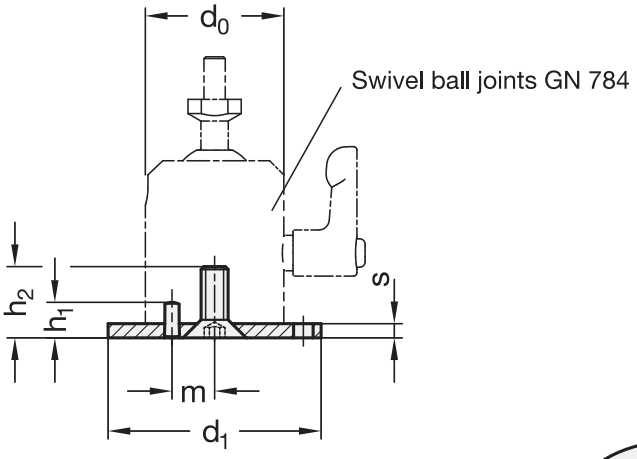
Half-length tapered groove pin DIN 8745
Stainless Steel AISI 304

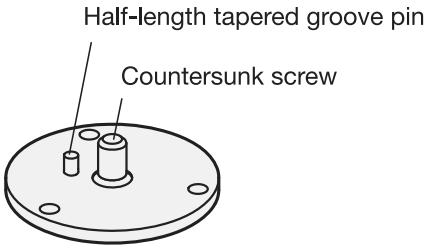
INFORMATION

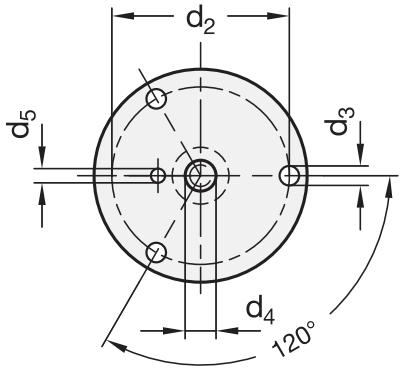
The GN 784.1 flanges are mounted from below into the GN 784 swivel ball joints (see page 1160). A half-length tapered groove pin prevents any rotation.
The flange enables the swivel ball joints to be mounted on the upper surface. The d_2 section with the three d_3 drill holes is configured so that standard screws with washers can be used.
The half-length tapered groove pin is mounted on the flange. The countersunk screw is included separately.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)







GN 784.1 **STAINLESS STEEL**

Description	d0	d1	d2	d3	d4	d5	h1	h2	m	s	⚖
GN 784.1-42-MT	23	42	32.5	4.5	M5	2	6	8.5	7	2.5	29
GN 784.1-49-MT	31	49	40	4.5	M6	3	6	10.5	9	3	46
GN 784.1-60-MT	39	60	50	5.5	M8	4	10	14.6	12	4	91
GN 784.1-70-MT	49	70	60	5.5	M8	4	10	14.6	16	4	122

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GN 240

Quick-fit couplings

with radial off-set compensation

SPECIFICATION

Types

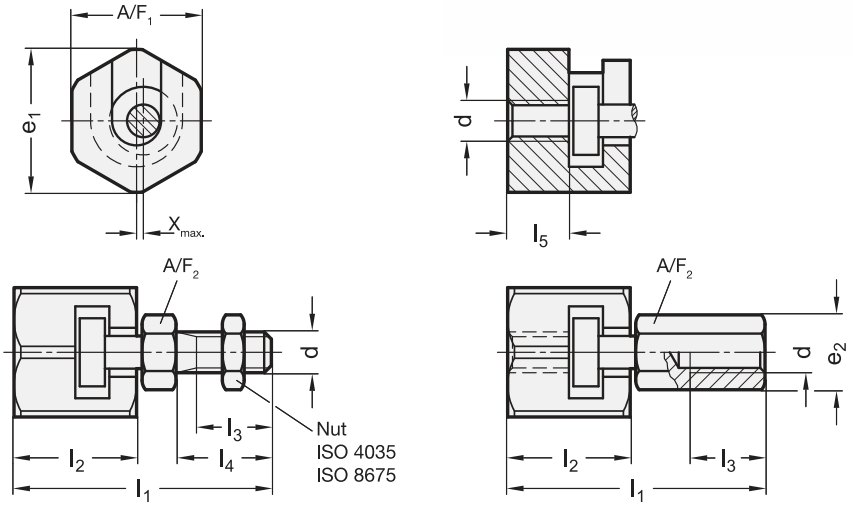
- Type **A**: with male thread
- Type **B**: with female thread

Steel

- tempered
- phosphated

INFORMATION

Quick-fit couplings GN 240 have been designed for the purpose of compensating a radial shaft off-set (x). A typical application is the axial link to a piston rod of a cylinder operating in any type of fixture or system.
The coupling is **not** designed for the transfer of torque.



GN 240

Description	d	e1	e2 ≈	l1 ≈	l2	l3 min.	l4	l5 +1.0	A/F 1	A/F 2	x	Max. pull-/ push load in kN	⚖
GN 240-M6-A	M6	21	11	37.5	18	11	14	9	19	10	0.6	2.5	42
GN 240-M8-A	M8	26	14,5	45	22.5	13.5	17	11.5	24	13	0.7	4.5	84
GN 240-M10-A	M10	30	19	56	29	16	20	16	27	17	0.7	6.5	144
GN 240-M10x1,25-A	M10x1.25	30	19	56	29	16	20	16	27	17	0.7	6.5	144
GN 240-M12-A	M12	32.5	21	66.5	34	21	25	17	30	19	0.8	10	205
GN 240-M12x1,25-A	M12x1.25	32.5	21	66.5	34	21	25	17	30	19	0.8	10	205
GN 240-M16-A	M16	39	27	83	42	25	30	23	36	24	1	18	384
GN 240-M16x1,5-A	M16x1.5	39	27	83	42	25	30	23	36	24	1	18	385
GN 240-M20-A	M20	44	34	93.5	45.5	29	35	23.5	41	30	1	30	568
GN 240-M20x1,5-A	M20x1.5	44	34	93.5	45.5	29	35	23.5	41	30	1	30	568
GN 240-M6-B	M6	21	11	37.5	18	11	14	9	19	10	0.6	2.5	45
GN 240-M8-B	M8	26	14,5	45	22.5	13.5	17	11.5	24	13	0.7	4.5	89
GN 240-M10-B	M10	30	19	56	29	16	20	16	27	17	0.7	6.5	155
GN 240-M10x1,25-B	M10x1.25	30	19	56	29	16	20	16	27	17	0.7	6.5	155
GN 240-M12-B	M12	32.5	21	66.5	34	21	25	17	30	19	0.8	10	220
GN 240-M12x1,25-B	M12x1.25	32.5	21	66.5	34	21	25	17	30	19	0.8	10	220
GN 240-M16-B	M16	39	27	83	42	25	30	23	36	24	1	18	397
GN 240-M16x1,5-B	M16x1.5	39	27	83	42	25	30	23	36	24	1	18	398
GN 240-M20-B	M20	44	34	93.5	45.5	29	35	23.5	41	30	1	30	599
GN 240-M20x1,5-B	M20x1.5	44	34	93.5	45.5	29	35	23.5	41	30	1	30	594

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GN 240.1

RoHS

Quick-fit couplings

with radial off-set compensation

SPECIFICATION

Types

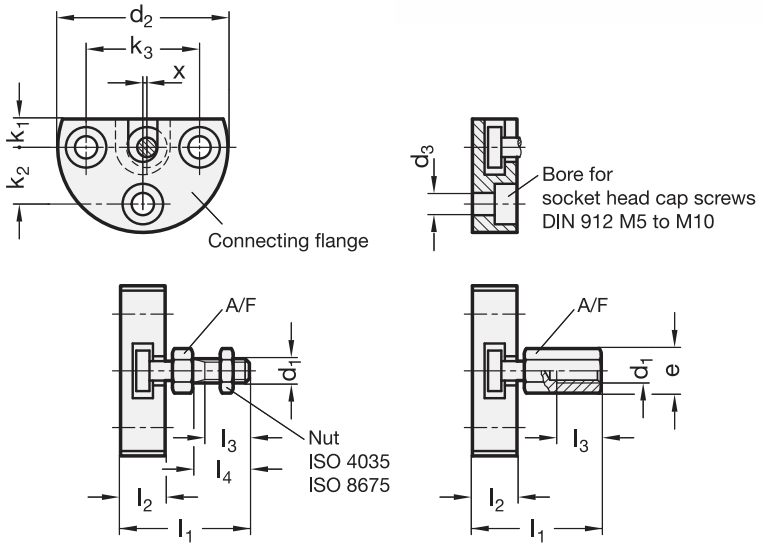
- Type **A**: with male thread
- Type **B**: with female thread

Steel

- tempered
- phosphated

INFORMATION

Quick-fit couplings GN 240.1 have been designed for the purpose of compensating a radial shaft off-set (x). A typical application is the axial link to a piston rod of a cylinder operating in any type of fixture or system.
The coupling is **not** designed for the transfer of torque.



GN 240.1

Description	d1	d2	d3	e ≈	k1	k2	k3	l1 ≈	l2	l3 min.	l4	A/F	x Max. shaft off set	Max. pull-/ push load in kN	⚖
GN 240.1-M6-A	M6	42	5.5	-	7	14	28	30.5	11	11	14	10	0.6	2.5	73
GN 240.1-M8-A	M8	48	6.5	-	8	16	32	35.5	13	13.5	17	13	0.7	4.5	116
GN 240.1-M10-A	M10	50	6.5	-	9	17	34	43	16	16	20	17	0.7	6.5	173
GN 240.1-M10x1,25-A	M10x1.25	50	6.5	-	9	17	34	43	16	16	20	17	0.7	6.5	174
GN 240.1-M12-A	M12	55	6.5	-	10	19	38	53	20.5	21	25	19	0.8	10	261
GN 240.1-M12x1,25-A	M12x1.25	55	6.5	-	10	19	38	53	20.5	21	25	19	0.8	10	262
GN 240.1-M16-A	M16	65	9	-	12.5	22.5	45	64	23	25	30	24	1	18	431
GN 240.1-M16x1,5-A	M16x1.5	65	9	-	12.5	22.5	45	64	23	25	30	24	1	18	433
GN 240.1-M20-A	M20	80	11	-	17	28	56	74	26	29	35	30	1	30	815
GN 240.1-M20x1,5-A	M20x1.5	80	11	-	17	28	56	74	26	29	35	30	1	30	816
GN 240.1-M6-B	M6	42	5.5	11	7	14	28	30.5	11	11	-	10	0.6	2.5	76
GN 240.1-M8-B	M8	48	6.5	14.5	8	16	32	35.5	13	13.5	-	13	0.7	4.5	122
GN 240.1-M10-B	M10	50	6.5	19	9	17	34	43	16	15	-	17	0.7	6.5	184
GN 240.1-M10x1,25-B	M10x1.25	50	6.5	19	9	17	34	43	16	15	-	17	0.7	6.5	184
GN 240.1-M12-B	M12	55	6.5	21	10	19	38	53	20.5	17.5	-	19	0.8	10	276
GN 240.1-M12x1,25-B	M12x1.25	55	6.5	21	10	19	38	53	20.5	17.5	-	19	0.8	10	276
GN 240.1-M16-B	M16	65	9	27	12.5	22.5	45	64	23	22	-	24	1	18	449
GN 240.1-M16x1,5-B	M16x1.5	65	9	27	12.5	22.5	45	64	23	22	-	24	1	18	449
GN 240.1-M20-B	M20	80	11	34	17	28	56	74	26	25	-	30	1	30	845
GN 240.1-M20x1,5-B	M20x1.5	80	11	34	17	28	56	74	26	25	-	30	1	30	845

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GN 240.2

Quick-fit couplings

with angle- and radial off-set compensation

SPECIFICATION

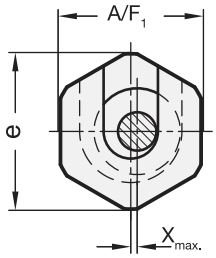
Steel

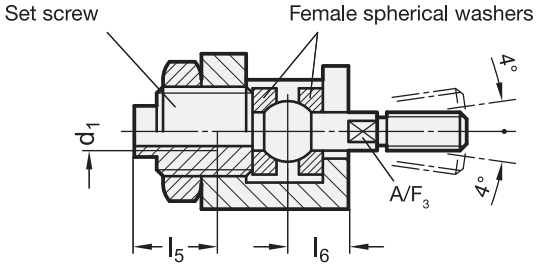
- tempered
- phosphated

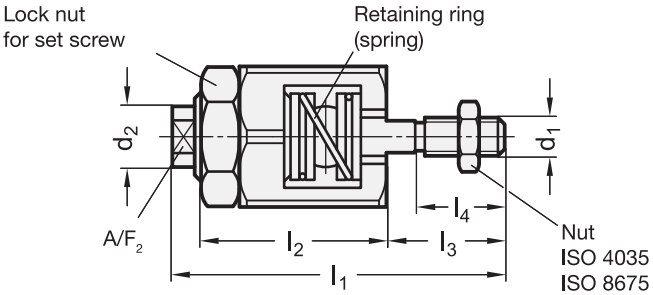
Retaining ring (spring)
Stainless Steel AISI 631

INFORMATION

Quick-fit couplings GN 240.2 have been designed to compensate a **radial** and **angular** off-set. Furthermore they are axially freely adjustable via the set screw.
A typical application is the axial link to a piston rod of a cylinder operating in any type of fixture or system.
The coupling is renowned by its very compact construction without any loose components.
It is **not** designed for the transfer of torque.







GN 240.2

Description	d1	d2	e	l1 ≈	l2	l3	l4	l5 min.	l6	A/F 1	A/F 2	A/F 3	x	Max. pull-/ push load in kN	⚖
GN 240.2-M6	M6	9.5	24.5	52	29	18.5	14	13	9.5	22	8	5	0.6	2.5	75
GN 240.2-M8	M8	15	30	63	33	23.5	18	16	11.5	27	13	7	0.7	4.5	135
GN 240.2-M10	M10	21	44	81	43	30.5	22	24	16	41	18	12	0.7	6.5	400
GN 240.2-M10x1,25	M10x1.25	21	44	81	43	30.5	22	24	16	41	18	12	0.7	6.5	403
GN 240.2-M12	M12	21	44	85	43	34.5	26	24	16	41	18	12	0.8	10	405
GN 240.2-M12x1,25	M12x1.25	21	44	85	43	34.5	26	24	16	41	18	12	0.8	10	409
GN 240.2-M16	M16	32	60	121	62	45	34	34	26	55	27	18	1	18	1090
GN 240.2-M16x1,5	M16x1.5	32	60	121	62	45	34	34	26	55	27	18	1	18	1094
GN 240.2-M20	M20	32	60	129	62	53	42	34	26	55	27	18	1	30	1136
GN 240.2-M20x1,5	M20x1.5	32	60	129	62	53	42	34	26	55	27	18	1	30	1143

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DESIGNED
FOR ENGINEERING

11 Levelling elements

Levelling elements

Bearing end caps

Supports and guides

Levelling elements

Technopolymer base, steel or stainless steel stem

BASE

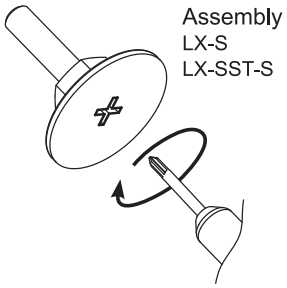
Polyamide based (PA) technopolymer with adjusting hexagon, black colour, matte finish.

STANDARD EXECUTIONS

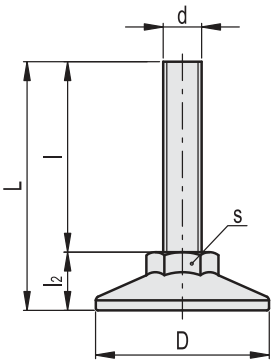
- **LX**: zinc-plated steel threaded stem.
- **LX-S**: zinc-plated steel threaded stem, base with screwdriver slot.
- **LX-SST**: AISI 304 stainless steel threaded stem.
- **LX-SST-S**: AISI 304 stainless steel threaded stem, base with screwdriver slot.

TECHNICAL DATA

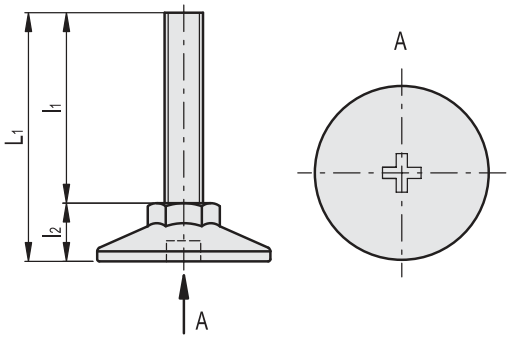
It's the user's responsibility to determine whether the product is suitable for the intended purpose according to the actual conditions of use.



LX.
LX-SST



LX-S
LX-SST-S



LX **LX-S**

Code	Description	Code	Description	D	d	L	L1	l	l2	s	Max. limit static load* [N]	⚖
431001	LX.25-SW13-M6x24	431001-S	LX.25-SW13-M6x26-S	25	M6	35	37	24	11	13	1500	8
431003	LX.25-SW13-M6x34	431003-S	LX.25-SW13-M6x36-S	25	M6	45	47	34	11	13	1500	10
431005	LX.25-SW13-M6x54	431005-S	LX.25-SW13-M6x56-S	25	M6	65	67	54	11	13	1500	14
431007	LX.25-SW13-M6x62	431007-S	LX.25-SW13-M6x64-S	25	M6	73	75	62	11	13	1500	16
431011	LX.25-SW13-M8x17	431011-S	LX.25-SW13-M8x19-S	25	M8	28	30	17	11	13	2500	10
431013	LX.25-SW13-M8x22	431013-S	LX.25-SW13-M8x24-S	25	M8	33	35	22	11	13	2500	12
431015	LX.25-SW13-M8x32	431015-S	LX.25-SW13-M8x32-S	25	M8	43	45	32	11	13	2500	14
431017	LX.25-SW13-M8x52	431017-S	LX.25-SW13-M8x54-S	25	M8	63	65	52	11	13	2500	18
431019	LX.25-SW13-M8x72	431019-S	LX.25-SW13-M8x74-S	25	M8	83	85	72	11	13	2500	22

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

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LX		LX-S										
Code	Description	Code	Description	D	d	L	L1	l	l2	s	Max. limit static load* [N]	⚖
431051	LX.30-SW17-M6x22	431051-S	LX.30-SW17-M6x24-S	30	M6	34	36	22	12	17	1500	14
431053	LX.30-SW17-M6x32	431053-S	LX.30-SW17-M6x34-S	30	M6	44	46	32	12	17	1500	16
431055	LX.30-SW17-M6x52	431055-S	LX.30-SW17-M6x54-S	30	M6	64	66	52	12	17	1500	20
431057	LX.30-SW17-M8x16	431057-S	LX.30-SW17-M8x18-S	30	M8	28	30	16	12	17	2500	17
431059	LX.30-SW17-M8x21	431059-S	LX.30-SW17-M8x23-S	30	M8	33	35	21	12	17	2500	18
431061	LX.30-SW17-M8x31	431061-S	LX.30-SW17-M8x33-S	30	M8	43	45	31	12	17	2500	20
431063	LX.30-SW17-M8x51	431063-S	LX.30-SW17-M8x53-S	30	M8	63	65	51	12	17	2500	24
431065	LX.30-SW17-M8x71	431065-S	LX.30-SW17-M8x73-S	30	M8	83	85	71	12	17	2500	28
431067	LX.30-SW17-M10x16	431067-S	LX.30-SW17-M10x18-S	30	M10	28	30	16	12	17	3000	21
431069	LX.30-SW17-M10x21	431069-S	LX.30-SW17-M10x23-S	30	M10	33	35	21	12	17	3000	22
431071	LX.30-SW17-M10x31	431071-S	LX.30-SW17-M10x33-S	30	M10	43	45	31	12	17	3000	24
431073	LX.30-SW17-M10x41	431073-S	LX.30-SW17-M10x43-S	30	M10	53	55	41	12	17	3000	26
431075	LX.30-SW17-M10x51	431075-S	LX.30-SW17-M10x53-S	30	M10	63	65	51	12	17	3000	28
431077	LX.30-SW17-M10x61	431077-S	LX.30-SW17-M10x63-S	30	M10	73	75	61	12	17	3000	30
431079	LX.30-SW17-M10x71	431079-S	LX.30-SW17-M10x73-S	30	M10	83	85	71	12	17	3000	32
431031	LX.40-SW17-M8x12	431031-S	LX.40-SW17-M8x14-S	40	M8	24.5	26.5	11.5	13	17	2500	20
431033	LX.40-SW17-M8x20	431033-S	LX.40-SW17-M8x22-S	40	M8	32.5	34.5	19.5	13	17	2500	22
431035	LX.40-SW17-M8x30	431035-S	LX.40-SW17-M8x32-S	40	M8	42.5	44.5	29.5	13	17	2500	24
431037	LX.40-SW17-M8x50	431037-S	LX.40-SW17-M8x52-S	40	M8	62.5	64.5	49.5	13	17	2500	26
431039	LX.40-SW17-M8x70	431039-S	LX.40-SW17-M8x72-S	40	M8	82.5	84.5	69.5	13	17	2500	29
431041	LX.40-SW17-M10x20	431041-S	LX.40-SW17-M10x22-S	40	M10	32.5	34.5	19.5	13	17	3000	24
431042	LX.40-SW17-M10x30	431042-S	LX.40-SW17-M10x32-S	40	M10	42.5	44.5	29.5	13	17	3000	26
431043	LX.40-SW17-M10x40	431043-S	LX.40-SW17-M10x42-S	40	M10	52.5	54.5	39.5	13	17	3000	28
431044	LX.40-SW17-M10x50	431044-S	LX.40-SW17-M10x52-S	40	M10	62.5	64.5	49.5	13	17	3000	31
431045	LX.40-SW17-M10x60	431045-S	LX.40-SW17-M10x62-S	40	M10	72.5	74.5	59.5	13	17	3000	34
431046	LX.40-SW17-M10x70	431046-S	LX.40-SW17-M10x72-S	40	M10	82.5	84.5	69.5	13	17	3000	37
431049	LX.40-SW17-M10x100	431049-S	LX.40-SW17-M10x102-S	40	M10	112.5	114.5	99.5	13	17	3000	46
431047	LX.40-SW17-M12x50	431047-S	LX.40-SW17-M12x52-S	40	M12	62.5	64.5	49.5	13	17	5000	34
431048	LX.40-SW17-M12x70	431048-S	LX.40-SW17-M12x72-S	40	M12	82.5	84.5	69.5	13	17	5000	40
431050	LX.40-SW17-M12x100	431050-S	LX.40-SW17-M12x102-S	40	M12	112.5	114.5	99.5	13	17	5000	50
431081	LX.50-SW19-M10x46	431081-S	LX.50-SW19-M10x48-S	50	M10	62.5	64.5	45.5	17	19	3000	64
431082	LX.50-SW19-M10x66	431082-S	LX.50-SW19-M10x68-S	50	M10	82.5	84.5	65.5	17	19	3000	68
431083	LX.50-SW19-M10x96	431083-S	LX.50-SW19-M10x98-S	50	M10	112.5	114.5	95.5	17	19	3000	75
431084	LX.50-SW19-M12x46	431084-S	LX.50-SW19-M12x48-S	50	M12	62.5	64.5	45.5	17	19	5000	67
431085	LX.50-SW19-M12x66	431085-S	LX.50-SW19-M12x68-S	50	M12	82.5	84.5	65.5	17	19	5000	72
431086	LX.50-SW19-M12x96	431086-S	LX.50-SW19-M12x98-S	50	M12	112.5	114.5	95.5	17	19	5000	79
431091	LX.60-SW24-M12x44	431091-S	LX.60-SW24-M12x46-S	60	M12	62.5	64.5	43.5	19	24	5000	67
431092	LX.60-SW24-M12x64	431092-S	LX.60-SW24-M12x66-S	60	M12	82.5	84.5	63.5	19	24	5000	73
431093	LX.60-SW24-M12x94	431093-S	LX.60-SW24-M12x96-S	60	M12	112.5	114.5	93.5	19	24	5000	82
431094	LX.60-SW24-M16x64	431094-S	LX.60-SW24-M16x66-S	60	M16	82.5	84.5	63.5	19	24	7500	102
431095	LX.60-SW24-M16x104	431095-S	LX.60-SW24-M16x106-S	60	M16	122.5	124.5	103.5	19	24	7500	132
431096	LX.60-SW24-M16x144	431096-S	LX.60-SW24-M16x146-S	60	M16	162.5	164.5	143.5	19	24	7500	156

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

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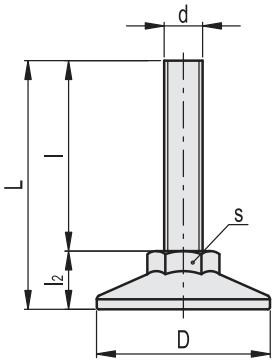
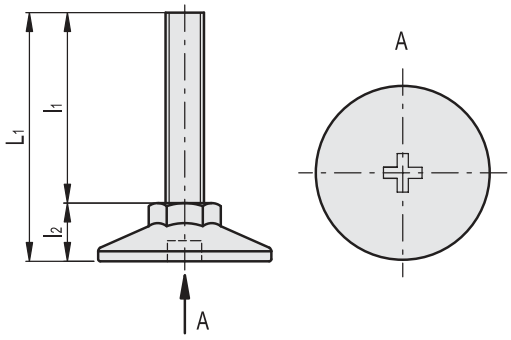
LX.
LX-SST



LX-S
LX-SST-S



LX-SST **LX-SST-S** **STAINLESS STEEL**

Code	Description	Code	Description	D	d	L	L1	l	l2	s	Max. limit static load* [N]	⚖
431101	LX.25-SW13-SST-M6x24	431101-S	LX.25-SW13-SST-M6x26-S	25	M6	35	37	24	11	13	1500	8
431103	LX.25-SW13-SST-M6x34	431103-S	LX.25-SW13-SST-M6x36-S	25	M6	45	47	34	11	13	1500	10
431105	LX.25-SW13-SST-M6x54	431105-S	LX.25-SW13-SST-M6x56-S	25	M6	65	67	54	11	13	1500	14
431113	LX.25-SW13-SST-M8x22	431113-S	LX.25-SW13-SST-M8x24-S	25	M8	35	37	24	11	13	2500	16
431115	LX.25-SW13-SST-M8x32	431115-S	LX.25-SW13-SST-M8x34-S	25	M8	43	45	32	11	13	2500	10
431117	LX.25-SW13-SST-M8x52	431117-S	LX.25-SW13-SST-M8x54-S	25	M8	63	65	52	11	13	2500	12
431151	LX.30-SW17-SST-M6x22	431151-S	LX.30-SW17-SST-M6x24-S	30	M6	34	36	22	12	17	1500	14
431153	LX.30-SW17-SST-M6x32	431153-S	LX.30-SW17-SST-M6x34-S	30	M6	44	46	32	12	17	1500	18
431155	LX.30-SW17-SST-M6x52	431155-S	LX.30-SW17-SST-M6x54-S	30	M6	64	66	52	12	17	1500	22
431159	LX.30-SW17-SST-M8x21	431159-S	LX.30-SW17-SST-M8x23-S	30	M8	33	35	21	12	17	2500	14
431161	LX.30-SW17-SST-M8x31	431161-S	LX.30-SW17-SST-M8x33-S	30	M8	43	45	31	12	17	2500	16
431163	LX.30-SW17-SST-M8x51	431163-S	LX.30-SW17-SST-M8x53-S	30	M8	63	65	51	12	17	2500	20
431171	LX.30-SW17-SST-M10x31	431171-S	LX.30-SW17-SST-M10x33-S	30	M10	43	45	31	12	17	3000	17
431175	LX.30-SW17-SST-M10x51	431175-S	LX.30-SW17-SST-M10x53-S	30	M10	63	65	51	12	17	3000	18
431179	LX.30-SW17-SST-M10x71	431179-S	LX.30-SW17-SST-M10x73-S	30	M10	83	85	71	12	17	3000	20
431133	LX.40-SW17-SST-M8x20	431133-S	LX.40-SW17-SST-M8x22-S	40	M8	32.5	34.5	19.5	13	17	2500	24
431135	LX.40-SW17-SST-M8x30	431135-S	LX.40-SW17-SST-M8x32-S	40	M8	42.5	44.5	29.5	13	17	2500	28
431137	LX.40-SW17-SST-M8x50	431137-S	LX.40-SW17-SST-M8x52-S	40	M8	62.5	64.5	49.5	13	17	2500	21
431142	LX.40-SW17-SST-M10x30	431142-S	LX.40-SW17-SST-M10x32-S	40	M10	42.5	44.5	29.5	13	17	3000	22
431144	LX.40-SW17-SST-M10x50	431144-S	LX.40-SW17-SST-M10x52-S	40	M10	62.5	64.5	49.5	13	17	3000	24
431146	LX.40-SW17-SST-M10x70	431146-S	LX.40-SW17-SST-M10x72-S	40	M10	82.5	84.5	69.5	13	17	3000	26
431148	LX.40-SW17-SST-M12x50	431148-S	LX.40-SW17-SST-M12x52-S	40	M12	62.5	64.5	49.5	13	17	5000	34
431149	LX.40-SW17-SST-M12x70	431149-S	LX.40-SW17-SST-M12x72-S	40	M12	82.5	84.5	69.5	13	17	5000	40
431150	LX.40-SW17-SST-M12x100	431150-S	LX.40-SW17-SST-M12x102-S	40	M12	112.5	114.5	99.5	13	17	5000	50
431181	LX.50-SW19-SST-M10x46	431181-S	LX.50-SW19-SST-M10x48-S	50	M10	62.5	64.5	45.5	17	19	3000	64
431182	LX.50-SW19-SST-M10x66	431182-S	LX.50-SW19-SST-M10x68-S	50	M10	82.5	84.5	65.5	17	19	3000	68
431183	LX.50-SW19-SST-M10x96	431183-S	LX.50-SW19-SST-M10x98-S	50	M10	112.5	114.5	95.5	17	19	3000	75
431184	LX.50-SW19-SST-M12x46	431184-S	LX.50-SW19-SST-M12x48-S	50	M12	62.5	64.5	45.5	17	19	5000	67
431185	LX.50-SW19-SST-M12x66	431185-S	LX.50-SW19-SST-M12x68-S	50	M12	82.5	84.5	65.5	17	19	5000	72
431186	LX.50-SW19-SST-M12x96	431186-S	LX.50-SW19-SST-M12x98-S	50	M12	112.5	114.5	95.5	17	19	5000	79
431191	LX.60-SW24-SST-M12x44	431191-S	LX.60-SW24-SST-M12x46-S	60	M12	62.5	64.5	43.5	19	24	5000	67
431192	LX.60-SW24-SST-M12x64	431192-S	LX.60-SW24-SST-M12x66-S	60	M12	82.5	84.5	63.5	19	24	5000	73
431193	LX.60-SW24-SST-M12x94	431193-S	LX.60-SW24-SST-M12x96-S	60	M12	112.5	114.5	93.5	19	24	5000	82
431194	LX.60-SW24-SST-M16x64	431194-S	LX.60-SW24-SST-M16x66-S	60	M16	82.5	84.5	63.5	19	24	7500	102
431195	LX.60-SW24-SST-M16x104	431195-S	LX.60-SW24-SST-M16x106-S	60	M16	122.5	124.5	103.5	19	24	7500	132
431196	LX.60-SW24-SST-M16x144	431196-S	LX.60-SW24-SST-M16x146-S	60	M16	162.5	164.5	143.5	19	24	7500	156

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

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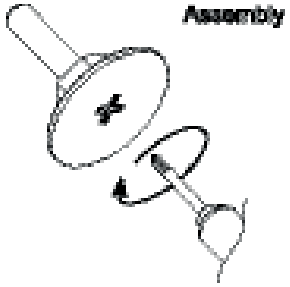
Levelling elements

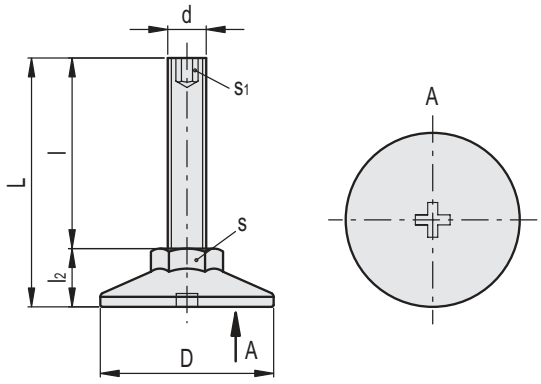
Technopolymer base, steel stem with hexagon socket at the upper end

BASE
Polyamide based (PA) technopolymer with adjusting hexagon, black colour, matte finish.

STANDARD EXECUTION
Zinc-plated steel threaded stem with hexagon socket at the upper end.
Base with screwdriver cross slot.

TECHNICAL DATA
It's the user's responsibility to determine whether the product is suitable for the intended purpose according to the actual conditions of use.





Code	Description	D	d	L	l	l2	s	s1	Max. limit static load* [N]	⚖
431201	LX.25-SW13-M6x22-HS	25	M6	33	22	11	13	3	1500	8
431203	LX.25-SW13-M6x32-HS	25	M6	43	32	11	13	3	1500	10
431205	LX.25-SW13-M6x52-HS	25	M6	63	52	11	13	3	1500	14
431207	LX.25-SW13-M6x62-HS	25	M6	73	62	11	13	3	1500	16
431211	LX.25-SW13-M8x17-HS	25	M8	28	17	11	13	4	2500	10
431213	LX.25-SW13-M8x22-HS	25	M8	33	22	11	13	4	2500	12
431215	LX.25-SW13-M8x32-HS	25	M8	43	32	11	13	4	2500	14
431217	LX.25-SW13-M8x52-HS	25	M8	63	52	11	13	4	2500	18
431219	LX.25-SW13-M8x72-HS	25	M8	83	72	11	17	4	2500	22

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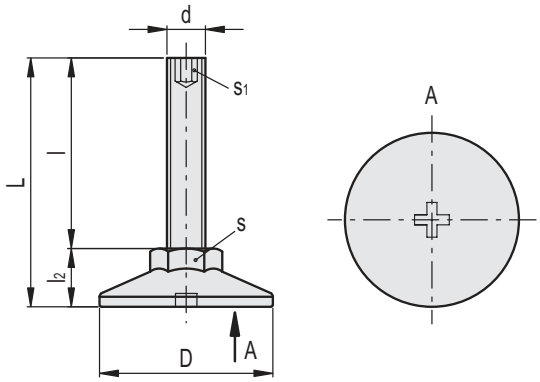

Code	Description	D	d	L	l	l2	s	s1	Max. limit static load* [N]	⚖
431241	LX.30-SW17-M6x21-HS	30	M6	33	21	12	17	3	1500	14
431243	LX.30-SW17-M6x31-HS	30	M6	43	31	12	17	3	1500	16
431245	LX.30-SW17-M6x51-HS	30	M6	63	51	12	17	3	1500	20
431251	LX.30-SW17-M8x16-HS	30	M8	28	16	12	17	4	2500	17
431253	LX.30-SW17-M8x21-HS	30	M8	33	21	12	17	4	2500	18
431255	LX.30-SW17-M8x31-HS	30	M8	43	31	12	17	4	2500	20
431257	LX.30-SW17-M8x51-HS	30	M8	63	51	12	17	4	2500	24
431259	LX.30-SW17-M8x71-HS	30	M8	83	71	12	17	4	2500	28
431271	LX.30-SW17-M10x16-HS	30	M10	28	16	12	17	5	3000	21
431273	LX.30-SW17-M10x21-HS	30	M10	33	21	12	17	5	3000	22
431275	LX.30-SW17-M10x31-HS	30	M10	43	31	12	17	5	3000	24
431277	LX.30-SW17-M10x41-HS	30	M10	53	41	12	17	5	3000	26
431279	LX.30-SW17-M10x51-HS	30	M10	63	51	12	17	5	3000	28
431281	LX.30-SW17-M10x61-HS	30	M10	73	61	12	17	5	3000	30
431283	LX.30-SW17-M10x71-HS	30	M10	83	71	12	17	5	3000	32
431221	LX.40-SW17-M8x15-HS	40	M8	28	15	13	17	4	2500	20
431223	LX.40-SW17-M8x20-HS	40	M8	33	20	13	17	4	2500	22
431225	LX.40-SW17-M8x30-HS	40	M8	43	30	13	17	4	2500	24
431227	LX.40-SW17-M8x50-HS	40	M8	63	50	13	17	4	2500	26
431229	LX.40-SW17-M8x70-HS	40	M8	83	70	13	17	4	2500	29
431301	LX.40-SW17-M10x20-HS	40	M10	33	20	13	17	5	3000	24
431303	LX.40-SW17-M10x30-HS	40	M10	43	30	13	17	5	3000	26
431305	LX.40-SW17-M10x40-HS	40	M10	53	40	13	17	5	3000	28
431307	LX.40-SW17-M10x50-HS	40	M10	63	50	13	17	5	3000	31
431309	LX.40-SW17-M10x60-HS	40	M10	73	60	13	17	5	3000	34
431311	LX.40-SW17-M10x70-HS	40	M10	83	70	13	17	5	3000	37
431325	LX.40-SW17-M10x100-HS	40	M10	113	100	13	17	5	3000	46
431321	LX.40-SW17-M12x50-HS	40	M12	63	50	13	17	6	5000	34
431323	LX.40-SW17-M12x70-HS	40	M12	87	70	17	17	6	5000	40
431327	LX.40-SW17-M12x100-HS	40	M12	113	100	13	17	6	5000	50
431285	LX.50-SW19-M10x46-HS	50	M10	63	46	17	19	5	3000	64
431287	LX.50-SW19-M10x66-HS	50	M10	83	66	17	19	5	3000	68
431289	LX.50-SW19-M10x96-HS	50	M10	113	96	17	19	5	3000	75
431351	LX.50-SW19-M12x46-HS	50	M12	63	46	17	19	6	5000	67
431353	LX.50-SW19-M12x66-HS	50	M12	83	66	17	19	6	5000	72
431355	LX.50-SW19-M12x96-HS	50	M12	113	96	17	19	6	5000	79
431361	LX.60-SW24-M12x44-HS	60	M12	63	44	19	24	6	5000	67
431363	LX.60-SW24-M12x64-HS	60	M12	83	64	19	24	6	5000	73
431365	LX.60-SW24-M12x94-HS	60	M12	113	94	19	24	6	5000	82
431367	LX.60-SW24-M16x64-HS	60	M16	83	64	19	24	8	7500	102
431369	LX.60-SW24-M16x104-HS	60	M16	123	104	19	24	8	7500	132
431371	LX.60-SW24-M16x144-HS	60	M16	163	144	19	24	8	7500	156

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Levelling elements

Technopolymer base, steel stem

BASE
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

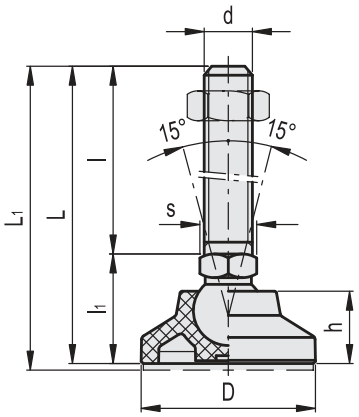
ARTICULATED STEM
Threaded zinc-plated steel with regulation hexagon.

STANDARD EXECUTIONS
- **LS.A**: without no-slip disk.
- **LS.A-AS:** with NBR rubber no-slip disk, hardness 70 Shore A, supplied assembled to the base.

FEATURES
The particular assembling system of the no-slip disk to the base assures a perfect anchoring, preventing separation even in case of impact during transport or of adhesion (sticking) to the floor (see No-slip disk on page 1223).

ORDER INFORMATION
The levelling elements are supplied unassembled to make carriage and storage easier. The components (base and stem) are supplied in separate packing: less volume taken and better protection from scratches and dirt.
To order bases and stems separately, see:
table of the possible combinations Bases/Stems on page 1229.

ACCESSORIES ON REQUEST
Zinc-plated steel nut (see Nuts NT. on page 1223).



LS.A **LS.A-AS**

Code	Description	Code	Description	D	d	L	L1#	l	l1	h	s	Articulation Ø	Max. limit static load* [N]	⚖	⚖ #
341121	LS.A-25-14-M8x43	346121	LS.A-25-14-AS-M8x43	25	M8	67	70	43	24	12	14	14	5000	32	34
341125	LS.A-25-14-M8x68	346125	LS.A-25-14-AS-M8x68	25	M8	92	95	68	24	12	14	14	5000	42	44
341221	LS.A-25-14-M10x43	346221	LS.A-25-14-AS-M10x43	25	M10	67	70	43	24	12	14	14	5000	42	44
341225	LS.A-25-14-M10x68	346225	LS.A-25-14-AS-M10x68	25	M10	92	95	68	24	12	14	14	5000	54	56
341231	LS.A-25-14-M10x98	346231	LS.A-25-14-AS-M10x98	25	M10	122	125	98	24	12	14	14	5000	68	70
341321	LS.A-25-14-M12x43	346321	LS.A-25-14-AS-M12x43	25	M12	67	70	43	24	12	14	14	5000	52	54
341325	LS.A-25-14-M12x68	346325	LS.A-25-14-AS-M12x68	25	M12	92	95	68	24	12	14	14	5000	69	71
341331	LS.A-25-14-M12x98	346331	LS.A-25-14-AS-M12x98	25	M12	122	125	98	24	12	14	14	5000	90	92
341421	LS.A-25-14-M14X68	346421	LS.A-25-14-AS-M14X68	25	M14	92	95	68	24	12	14	14	5000	84	86
341431	LS.A-25-14-M14X98	346431	LS.A-25-14-AS-M14X98	25	M14	122	125	98	24	12	14	14	5000	105	107
341441	LS.A-25-14-M14X148	346441	LS.A-25-14-AS-M14X148	25	M14	172	175	148	24	12	14	14	5000	188	190
341521	LS.A-25-14-M16x68	346521	LS.A-25-14-AS-M16x68	25	M16	92	95	68	24	12	16	14	5000	113	115
341525	LS.A-25-14-M16x108	346525	LS.A-25-14-AS-M16x108	25	M16	132	135	108	24	12	16	14	5000	162	164
341541	LS.A-25-14-M16x148	346541	LS.A-25-14-AS-M16x148	25	M16	172	175	148	24	12	16	14	5000	214	216
341561	LS.A-25-14-M16x168	346561	LS.A-25-14-AS-M16x168	25	M16	192	195	168	24	12	16	14	5000	240	242

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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LS.A		LS.A-AS													
Code	Description	Code	Description	D	d	L	L1#	l	l1	h	s	Articulation Ø	Max. limit static load* [N]	⚖	⚖ #
342121	LS.A-32-14-M8x43	347121	LS.A-32-14-AS-M8x43	32	M8	68	71	43	25	15	14	14	7000	37	41
342125	LS.A-32-14-M8x68	347125	LS.A-32-14-AS-M8x68	32	M8	93	96	68	25	15	14	14	7000	47	51
342221	LS.A-32-14-M10x43	347221	LS.A-32-14-AS-M10x43	32	M10	68	71	43	25	15	14	14	7000	47	51
342225	LS.A-32-14-M10x68	347225	LS.A-32-14-AS-M10x68	32	M10	93	96	68	25	15	14	14	7000	59	63
342231	LS.A-32-14-M10x98	347231	LS.A-32-14-AS-M10x98	32	M10	123	126	98	25	15	14	14	7000	73	77
342321	LS.A-32-14-M12x43	347321	LS.A-32-14-AS-M12x43	32	M12	68	71	43	25	15	14	14	7000	57	61
342325	LS.A-32-14-M12x68	347325	LS.A-32-14-AS-M12x68	32	M12	93	96	68	25	15	14	14	7000	74	78
342331	LS.A-32-14-M12x98	347331	LS.A-32-14-AS-M12x98	32	M12	123	126	98	25	15	14	14	7000	95	99
342421	LS.A-32-14-M14X68	347421	LS.A-32-14-AS-M14X68	32	M14	93	96	68	25	15	14	14	7000	90	94
342431	LS.A-32-14-M14X98	347431	LS.A-32-14-AS-M14X98	32	M14	123	126	98	25	15	14	14	7000	111	115
342441	LS.A-32-14-M14X148	347441	LS.A-32-14-AS-M14X148	32	M14	173	176	148	25	15	14	14	7000	194	198
342521	LS.A-32-14-M16x68	347521	LS.A-32-14-AS-M16x68	32	M16	93	96	68	25	15	16	14	7000	118	122
342525	LS.A-32-14-M16x108	347525	LS.A-32-14-AS-M16x108	32	M16	133	136	108	25	15	16	14	7000	170	174
342541	LS.A-32-14-M16x148	347541	LS.A-32-14-AS-M16x148	32	M16	173	176	148	25	15	16	14	7000	222	226
342561	LS.A-32-14-M16x168	347561	LS.A-32-14-AS-M16x168	32	M16	193	196	168	25	15	16	14	7000	248	252
343121	LS.A-40-14-M8x43	348121	LS.A-40-14-AS-M8x43	40	M8	68	71	43	25	17	14	14	10000	41	48
343125	LS.A-40-14-M8x68	348125	LS.A-40-14-AS-M8x68	40	M8	93	96	68	25	17	14	14	10000	51	58
343221	LS.A-40-14-M10x43	348221	LS.A-40-14-AS-M10x43	40	M10	68	71	43	25	17	14	14	10000	51	58
343225	LS.A-40-14-M10x68	348225	LS.A-40-14-AS-M10x68	40	M10	93	96	68	25	17	14	14	10000	63	70
343231	LS.A-40-14-M10x98	348231	LS.A-40-14-AS-M10x98	40	M10	123	126	98	25	17	14	14	10000	77	84
343321	LS.A-40-14-M12x43	348321	LS.A-40-14-AS-M12x43	40	M12	68	71	43	25	17	14	14	10000	61	68
343325	LS.A-40-14-M12x68	348325	LS.A-40-14-AS-M12x68	40	M12	93	96	68	25	17	14	14	10000	78	85
343331	LS.A-40-14-M12x98	348331	LS.A-40-14-AS-M12x98	40	M12	123	126	98	25	17	14	14	10000	99	106
343421	LS.A-40-14-M14X68	348421	LS.A-40-14-AS-M14X68	40	M14	93	96	68	25	17	14	14	10000	93	100
343431	LS.A-40-14-M14X98	348431	LS.A-40-14-AS-M14X98	40	M14	123	126	98	25	17	14	14	10000	114	121
343441	LS.A-40-14-M14X148	348441	LS.A-40-14-AS-M14X148	40	M14	173	176	148	25	17	14	14	10000	197	204
343521	LS.A-40-14-M16x68	348521	LS.A-40-14-AS-M16x68	40	M16	93	96	68	25	17	16	14	10000	122	129
343525	LS.A-40-14-M16x108	348525	LS.A-40-14-AS-M16x108	40	M16	133	136	108	25	17	16	14	10000	174	181
343541	LS.A-40-14-M16x148	348541	LS.A-40-14-AS-M16x148	40	M16	173	176	148	25	17	16	14	10000	226	233
343561	LS.A-40-14-M16x168	348561	LS.A-40-14-AS-M16x168	40	M16	193	196	168	25	17	16	14	10000	252	259
344121	LS.A-50-14-M8x43	349121	LS.A-50-14-AS-M8x43	50	M8	70	73	43	27	19	14	14	10000	48	60
344125	LS.A-50-14-M8x68	349125	LS.A-50-14-AS-M8x68	50	M8	95	98	68	27	19	14	14	10000	58	70
344221	LS.A-50-14-M10x43	349221	LS.A-50-14-AS-M10x43	50	M10	70	73	43	27	19	14	14	10000	58	70
344225	LS.A-50-14-M10x68	349225	LS.A-50-14-AS-M10x68	50	M10	95	98	68	27	19	14	14	10000	70	82
344231	LS.A-50-14-M10x98	349231	LS.A-50-14-AS-M10x98	50	M10	125	128	98	27	19	14	14	10000	84	96
344321	LS.A-50-14-M12x43	349321	LS.A-50-14-AS-M12x43	50	M12	70	73	43	27	19	14	14	10000	68	80
344325	LS.A-50-14-M12x68	349325	LS.A-50-14-AS-M12x68	50	M12	95	98	68	27	19	14	14	10000	85	97
344331	LS.A-50-14-M12x98	349331	LS.A-50-14-AS-M12x98	50	M12	125	128	98	27	19	14	14	10000	106	118
344421	LS.A-50-14-M14X68	349421	LS.A-50-14-AS-M14X68	50	M14	95	98	68	27	19	14	14	10000	100	112
344431	LS.A-50-14-M14X98	349431	LS.A-50-14-AS-M14X98	50	M14	125	128	98	27	19	14	14	10000	121	133
344441	LS.A-50-14-M14X148	349441	LS.A-50-14-AS-M14X148	50	M14	175	178	148	27	19	14	14	10000	204	216
344521	LS.A-50-14-M16x68	349521	LS.A-50-14-AS-M16x68	50	M16	95	98	68	27	19	16	14	10000	129	141
344525	LS.A-50-14-M16x108	349525	LS.A-50-14-AS-M16x108	50	M16	135	138	108	27	19	16	14	10000	181	193
344541	LS.A-50-14-M16x148	349541	LS.A-50-14-AS-M16x148	50	M16	175	178	148	27	19	16	14	10000	233	245
344561	LS.A-50-14-M16x168	349561	LS.A-50-14-AS-M16x168	50	M16	195	198	168	27	19	16	14	10000	259	271

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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LS.A-SST

Levelling elements

Technopolymer base, stainless steel stem

BASE
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

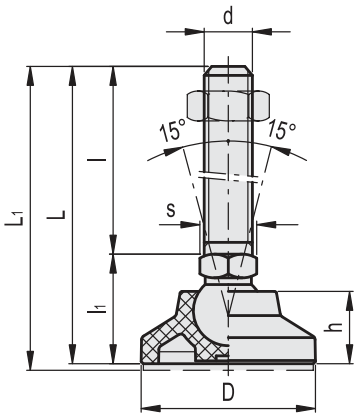
ARTICULATED STEM
Threaded AISI 304 stainless steel with regulation hexagon.

STANDARD EXECUTIONS
- **LS.A-SST**: without no-slip disk.
- **LS.A-AS-SST**: with NBR rubber no-slip disk, hardness 70 Shore A, supplied assembled to the base.

FEATURES
The particular assembling system of the no-slip disk to the base assures a perfect anchoring, preventing separation even in case of impact during transport or of adhesion (sticking) to the floor (see No-slip disk on page 1223).

ORDER INFORMATION
The levelling elements are supplied unassembled to make carriage and storage easier. The components (base and stem) are supplied in separate packing: less volume taken and better protection from scratches and dirt.
To order bases and stems separately, see:
table of the possible combinations Bases/Stems on page 1229.

ACCESSORIES ON REQUEST
AISI 304 stainless steel nut (see Nuts NT. on page 1223).



LS.A-SST **LS.A-AS-SST** **STAINLESS STEEL**

Code	Description	Code	Description	D	d	L	L1#	l	l1	h	s	Articulation Ø	Max. limit static load* [N]	⚖	⚖#
351121	LS.A-25-14-SST-M8x43	356121	LS.A-25-14-AS-SST-M8x43	25	M8	67	70	43	24	12	14	14	5000	33	35
351125	LS.A-25-14-SST-M8x68	356125	LS.A-25-14-AS-SST-M8x68	25	M8	92	95	68	24	12	14	14	5000	43	45
351221	LS.A-25-14-SST-M10x43	356221	LS.A-25-14-AS-SST-M10x43	25	M10	67	70	43	24	12	14	14	5000	43	45
351225	LS.A-25-14-SST-M10x68	356225	LS.A-25-14-AS-SST-M10x68	25	M10	92	95	68	24	12	14	14	5000	56	58
351231	LS.A-25-14-SST-M10x98	356231	LS.A-25-14-AS-SST-M10x98	25	M10	122	125	98	24	12	14	14	5000	70	72
351321	LS.A-25-14-SST-M12x43	356321	LS.A-25-14-AS-SST-M12x43	25	M12	67	70	43	24	12	14	14	5000	53	55
351325	LS.A-25-14-SST-M12x68	356325	LS.A-25-14-AS-SST-M12x68	25	M12	92	95	68	24	12	14	14	5000	71	73
351331	LS.A-25-14-SST-M12x98	356331	LS.A-25-14-AS-SST-M12x98	25	M12	122	125	98	24	12	14	14	5000	93	95
351421	LS.A-25-14-SST-M14X68	356421	LS.A-25-14-AS-SST-M14X68	25	M14	92	95	68	24	12	14	14	5000	86	88
351431	LS.A-25-14-SST-M14X98	356431	LS.A-25-14-AS-SST-M14X98	25	M14	122	125	98	24	12	14	14	5000	107	109
351441	LS.A-25-14-SST-M14X148	356441	LS.A-25-14-AS-SST-M14X148	25	M14	172	175	148	24	12	14	14	5000	190	192
351521	LS.A-25-14-SST-M16x68	356521	LS.A-25-14-AS-SST-M16x68	25	M16	92	95	68	24	12	16	14	5000	116	118
351525	LS.A-25-14-SST-M16x108	356525	LS.A-25-14-AS-SST-M16x108	25	M16	132	135	108	24	12	16	14	5000	167	169
351541	LS.A-25-14-SST-M16x148	356541	LS.A-25-14-AS-SST-M16x148	25	M16	172	175	148	24	12	16	14	5000	220	222
351561	LS.A-25-14-SST-M16x168	356561	LS.A-25-14-AS-SST-M16x168	25	M16	192	195	168	24	12	16	14	5000	247	249

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.
# Data with no-slip disk mounted.

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LS.A-SST **LS.A-AS-SST** **STAINLESS STEEL**

Code	Description	Code	Description	D	d	L	L1#	l	l1	h	s	Articulation Ø	Max. limit static load* [N]	⚖	⚖ #
352121	LS.A-32-14-SST-M8x43	357121	LS.A-32-14-AS-SST-M8x43	32	M8	68	71	43	25	15	14	14	7000	38	42
352125	LS.A-32-14-SST-M8x68	357125	LS.A-32-14-AS-SST-M8x68	32	M8	93	96	68	25	15	14	14	7000	48	52
352221	LS.A-32-14-SST-M10x43	357221	LS.A-32-14-AS-SST-M10x43	32	M10	68	71	43	25	15	14	14	7000	48	52
352225	LS.A-32-14-SST-M10x68	357225	LS.A-32-14-AS-SST-M10x68	32	M10	93	96	68	25	15	14	14	7000	61	65
352231	LS.A-32-14-SST-M10x98	357231	LS.A-32-14-AS-SST-M10x98	32	M10	123	126	98	25	15	14	14	7000	75	79
352321	LS.A-32-14-SST-M12x43	357321	LS.A-32-14-AS-SST-M12x43	32	M12	68	71	43	25	15	14	14	7000	58	62
352325	LS.A-32-14-SST-M12x68	357325	LS.A-32-14-AS-SST-M12x68	32	M12	93	96	68	25	15	14	14	7000	78	82
352331	LS.A-32-14-SST-M12x98	357331	LS.A-32-14-AS-SST-M12x98	32	M12	123	126	98	25	15	14	14	7000	98	102
352421	LS.A-32-14-SST-M14X68	357421	LS.A-32-14-AS-SST-M14X68	32	M14	93	96	68	25	15	14	14	7000	95	99
352431	LS.A-32-14-SST-M14X98	357431	LS.A-32-14-AS-SST-M14X98	32	M14	123	126	98	25	15	14	14	7000	116	120
352441	LS.A-32-14-SST-M14X148	357441	LS.A-32-14-AS-SST-M14X148	32	M14	173	176	148	25	15	14	14	7000	199	203
352521	LS.A-32-14-SST-M16x68	357521	LS.A-32-14-AS-SST-M16x68	32	M16	93	97	68	25	15	16	14	7000	121	125
352525	LS.A-32-14-SST-M16x108	357525	LS.A-32-14-AS-SST-M16x108	32	M16	133	137	108	25	15	16	14	7000	175	179
352541	LS.A-32-14-SST-M16x148	357541	LS.A-32-14-AS-SST-M16x148	32	M16	173	176	148	25	15	16	14	7000	228	232
352561	LS.A-32-14-SST-M16x168	357561	LS.A-32-14-AS-SST-M16x168	32	M16	193	196	168	25	15	16	14	7000	255	259
353121	LS.A-40-14-SST-M8x43	358121	LS.A-40-14-AS-SST-M8x43	40	M8	68	71	43	25	17	14	14	10000	42	49
353125	LS.A-40-14-SST-M8x68	358125	LS.A-40-14-AS-SST-M8x68	40	M8	93	96	68	25	17	14	14	10000	52	59
353221	LS.A-40-14-SST-M10x43	358221	LS.A-40-14-AS-SST-M10x43	40	M10	68	71	43	25	17	14	14	10000	52	59
353225	LS.A-40-14-SST-M10x68	358225	LS.A-40-14-AS-SST-M10x68	40	M10	93	96	68	25	17	14	14	10000	65	72
353231	LS.A-40-14-SST-M10x98	358231	LS.A-40-14-AS-SST-M10x98	40	M10	123	126	98	25	17	14	14	10000	79	86
353321	LS.A-40-14-SST-M12x43	358321	LS.A-40-14-AS-SST-M12x43	40	M12	68	71	43	25	17	14	14	10000	62	69
353325	LS.A-40-14-SST-M12x68	358325	LS.A-40-14-AS-SST-M12x68	40	M12	93	96	68	25	17	14	14	10000	80	87
353331	LS.A-40-14-SST-M12x98	358331	LS.A-40-14-AS-SST-M12x98	40	M12	123	126	98	25	17	14	14	10000	102	109
353421	LS.A-40-14-SST-M14X68	358421	LS.A-40-14-AS-SST-M14X68	40	M14	93	96	68	25	17	14	14	10000	95	102
353431	LS.A-40-14-SST-M14X98	358431	LS.A-40-14-AS-SST-M14X98	40	M14	123	126	98	25	17	14	14	10000	116	123
353441	LS.A-40-14-SST-M14X148	358441	LS.A-40-14-AS-SST-M14X148	40	M14	173	176	148	25	17	14	14	10000	199	206
353521	LS.A-40-14-SST-M16x68	358521	LS.A-40-14-AS-SST-M16x68	40	M16	93	96	68	25	17	16	14	10000	125	132
353525	LS.A-40-14-SST-M16x108	358525	LS.A-40-14-AS-SST-M16x108	40	M16	133	136	108	25	17	16	14	10000	179	186
353541	LS.A-40-14-SST-M16x148	358541	LS.A-40-14-AS-SST-M16x148	40	M16	173	176	148	25	17	16	14	10000	232	239
353561	LS.A-40-14-SST-M16x168	358561	LS.A-40-14-AS-SST-M16x168	40	M16	193	196	168	25	17	16	14	10000	259	266
354121	LS.A-50-14-SST-M8x43	359121	LS.A-50-14-AS-SST-M8x43	50	M8	70	73	43	27	19	14	14	10000	49	61
354125	LS.A-50-14-SST-M8x68	359125	LS.A-50-14-AS-SST-M8x68	50	M8	95	98	68	27	19	14	14	10000	59	71
354221	LS.A-50-14-SST-M10x43	359221	LS.A-50-14-AS-SST-M10x43	50	M10	70	73	43	27	19	14	14	10000	59	71
354225	LS.A-50-14-SST-M10x68	359225	LS.A-50-14-AS-SST-M10x68	50	M10	95	98	68	27	19	14	14	10000	72	84
354231	LS.A-50-14-SST-M10x98	359231	LS.A-50-14-AS-SST-M10x98	50	M10	125	128	98	27	19	14	14	10000	86	98
354321	LS.A-50-14-SST-M12x43	359321	LS.A-50-14-AS-SST-M12x43	50	M12	70	73	43	27	19	14	14	10000	69	81
354325	LS.A-50-14-SST-M12x68	359325	LS.A-50-14-AS-SST-M12x68	50	M12	95	98	68	27	19	14	14	10000	87	99
354331	LS.A-50-14-SST-M12x98	359331	LS.A-50-14-AS-SST-M12x98	50	M12	125	128	98	27	19	14	14	10000	109	121
354421	LS.A-50-14-SST-M14X68	359421	LS.A-50-14-AS-SST-M14X68	50	M14	95	98	68	27	19	14	14	10000	102	114
354431	LS.A-50-14-SST-M14X98	359431	LS.A-50-14-AS-SST-M14X98	50	M14	125	128	98	27	19	14	14	10000	123	135
354441	LS.A-50-14-SST-M14X148	359441	LS.A-50-14-AS-SST-M14X148	50	M14	175	178	148	27	19	14	14	10000	206	218
354521	LS.A-50-14-SST-M16x68	359521	LS.A-50-14-AS-SST-M16x68	50	M16	95	98	68	27	19	16	14	10000	132	144
354525	LS.A-50-14-SST-M16x108	359525	LS.A-50-14-AS-SST-M16x108	50	M16	135	138	108	27	19	16	14	10000	185	197
354541	LS.A-50-14-SST-M16x148	359541	LS.A-50-14-AS-SST-M16x148	50	M16	175	178	148	27	19	16	14	10000	239	251
354561	LS.A-50-14-SST-M16x168	359561	LS.A-50-14-AS-SST-M16x168	50	M16	195	198	168	27	19	16	14	10000	266	278

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.
# Data with no-slip disk mounted.

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Levelling elements

Technopolymer base, stainless steel stem

BASE
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

ARTICULATED STEM
Threaded AISI 304 stainless steel with adjusting square.

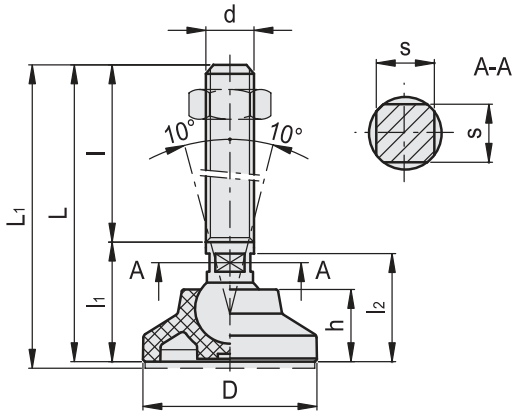
STANDARD EXECUTIONS
- **LSQ.A-SST**: without no-slip disk.
- **LSQ.A-AS-SST**: with NBR rubber no-slip disk, hardness 70 Shore A, supplied assembled to the base.

FEATURES
The particular assembling system of the no-slip disk to the base assures a perfect anchoring, preventing separation even in case of impact during transport or of adhesion (sticking) to the floor (see No-slip disk on page 1223).

ORDER INFORMATION
The levelling elements are supplied unassembled to make carriage and storage easier. The components (base and stem) are supplied in separate packing: less volume taken and better protection from scratches and dirt.
To order bases and stems separately, see:
table of the possible combinations Bases/Stems on page 1229.

ACCESSORIES ON REQUEST
AISI 304 stainless steel nut (see Nuts NT. on page 1223).

ELESA Original design



LSQ.A-SST **LSQ.A-AS-SST** **STAINLESS STEEL**

Code	Description	Code	Description	D	d	L	L1#	l	l1	l2	h	s	Articulation Ø	Max. limit static load* [N]	⚖	⚖#
359991	LSQ.A-25-8.5-SST-M8x48	360491	LSQ.A-25-8.5-AS-SST-M8x48	25	M8	68	71	48	20	18.5	12	7	8.5	5000	24	26
359993	LSQ.A-25-8.5-SST-M8x73	360493	LSQ.A-25-8.5-AS-SST-M8x73	25	M8	93	96	73	20	18.5	12	7	8.5	5000	34	36
360001	LSQ.A-25-8.5-SST-M10x48	360501	LSQ.A-25-8.5-AS-SST-M10x48	25	M10	68	71	48	20	18.5	12	7	8.5	5000	31	33
360003	LSQ.A-25-8.5-SST-M10x73	360503	LSQ.A-25-8.5-AS-SST-M10x73	25	M10	93	96	73	20	18.5	12	7	8.5	5000	47	49
360005	LSQ.A-25-8.5-SST-M10x103	360505	LSQ.A-25-8.5-AS-SST-M10x103	25	M10	123	126	103	20	18.5	12	7	8.5	5000	65	67
360011	LSQ.A-25-8.5-SST-M12x48	360511	LSQ.A-25-8.5-AS-SST-M12x48	25	M12	68	71	48	20	18.5	12	9	8.5	5000	42	44
360013	LSQ.A-25-8.5-SST-M12x73	360513	LSQ.A-25-8.5-AS-SST-M12x73	25	M12	93	96	73	20	18.5	12	9	8.5	5000	64	66
360015	LSQ.A-25-8.5-SST-M12x103	360515	LSQ.A-25-8.5-AS-SST-M12x103	25	M12	123	126	103	20	18.5	12	9	8.5	5000	95	97
360031	LSQ.A-25-14-SST-M16x68	360531	LSQ.A-25-14-AS-SST-M16x68	25	M16	92	95	68	24	22.5	12	12	14	5000	100	102
360033	LSQ.A-25-14-SST-M16x108	360533	LSQ.A-25-14-AS-SST-M16x108	25	M16	132	135	108	24	22.5	12	12	14	5000	164	166
360035	LSQ.A-25-14-SST-M16x148	360535	LSQ.A-25-14-AS-SST-M16x148	25	M16	172	175	148	24	22.5	12	12	14	5000	228	230
360037	LSQ.A-25-14-SST-M16x168	360537	LSQ.A-25-14-AS-SST-M16x168	25	M16	192	195	168	24	22.5	12	12	14	5000	260	262

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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LSQ.A-SST | Levelling elements

LSQ.A-SST **LSQ.A-AS-SST** **STAINLESS STEEL**

Code	Description	Code	Description	D	d	L	L1#	l	l1	l2	h	s	Articulation Ø	Max. limit static load* [N]	⚖	⚖ #
360091	LSQ.A-32-8.5-SST-M8x48	360591	LSQ.A-32-8.5-AS-SST-M8x48	32	M8	71	74	48	23	21.5	15	7	8.5	6000	28	32
360093	LSQ.A-32-8.5-SST-M8x73	360593	LSQ.A-32-8.5-AS-SST-M8x73	32	M8	96	99	73	23	21.5	15	7	8.5	6000	38	42
360101	LSQ.A-32-8.5-SST-M10x48	360601	LSQ.A-32-8.5-AS-SST-M10x48	32	M10	71	74	48	23	21.5	15	7	8.5	6000	35	39
360103	LSQ.A-32-8.5-SST-M10x73	360603	LSQ.A-32-8.5-AS-SST-M10x73	32	M10	96	99	73	23	21.5	15	7	8.5	6000	51	55
360105	LSQ.A-32-8.5-SST-M10x103	360605	LSQ.A-32-8.5-AS-SST-M10x103	32	M10	126	129	103	23	21.5	15	7	8.5	6000	69	73
360111	LSQ.A-32-8.5-SST-M12x48	360611	LSQ.A-32-8.5-AS-SST-M12x48	32	M12	71	74	48	23	21.5	15	9	8.5	6000	46	50
360113	LSQ.A-32-8.5-SST-M12x73	360613	LSQ.A-32-8.5-AS-SST-M12x73	32	M12	96	99	73	23	21.5	15	9	8.5	6000	68	72
360115	LSQ.A-32-8.5-SST-M12x103	360615	LSQ.A-32-8.5-AS-SST-M12x103	32	M12	126	129	103	23	21.5	15	9	8.5	6000	99	103
360131	LSQ.A-32-14-SST-M16x68	360631	LSQ.A-32-14-AS-SST-M16x68	32	M16	92	95	68	24	22.5	15	12	14	7000	104	108
360133	LSQ.A-32-14-SST-M16x108	360633	LSQ.A-32-14-AS-SST-M16x108	32	M16	132	135	108	24	22.5	15	12	14	7000	168	172
360135	LSQ.A-32-14-SST-M16x148	360635	LSQ.A-32-14-AS-SST-M16x148	32	M16	172	175	148	24	22.5	15	12	14	7000	232	236
360137	LSQ.A-32-14-SST-M16x168	360637	LSQ.A-32-14-AS-SST-M16x168	32	M16	192	195	168	24	22.5	15	12	14	7000	264	268
360191	LSQ.A-40-8.5-SST-M8x48	360691	LSQ.A-40-8.5-AS-SST-M8x48	40	M8	73	76	48	25	23.5	17	7	8.5	7000	33	40
360193	LSQ.A-40-8.5-SST-M8x73	360693	LSQ.A-40-8.5-AS-SST-M8x73	40	M8	98	101	73	25	23.5	17	7	8.5	7000	43	50
360201	LSQ.A-40-8.5-SST-M10x48	360701	LSQ.A-40-8.5-AS-SST-M10x48	40	M10	73	76	48	25	23.5	17	7	8.5	7000	40	47
360203	LSQ.A-40-8.5-SST-M10x73	360703	LSQ.A-40-8.5-AS-SST-M10x73	40	M10	98	101	73	25	23.5	17	7	8.5	7000	56	63
360205	LSQ.A-40-8.5-SST-M10x103	360705	LSQ.A-40-8.5-AS-SST-M10x103	40	M10	128	131	103	25	23.5	17	7	8.5	7000	74	81
360211	LSQ.A-40-8.5-SST-M12x48	360711	LSQ.A-40-8.5-AS-SST-M12x48	40	M12	73	76	48	25	23.5	17	9	8.5	7000	51	58
360213	LSQ.A-40-8.5-SST-M12x73	360713	LSQ.A-40-8.5-AS-SST-M12x73	40	M12	98	101	73	25	23.5	17	9	8.5	7000	73	80
360215	LSQ.A-40-8.5-SST-M12x103	360715	LSQ.A-40-8.5-AS-SST-M12x103	40	M12	128	131	103	25	23.5	17	9	8.5	7000	104	111
360231	LSQ.A-40-14-SST-M16x68	360731	LSQ.A-40-14-AS-SST-M16x68	40	M16	93	96	68	25	23.5	17	12	14	10000	109	116
360233	LSQ.A-40-14-SST-M16x108	360733	LSQ.A-40-14-AS-SST-M16x108	40	M16	133	136	108	25	23.5	17	12	14	10000	173	180
360235	LSQ.A-40-14-SST-M16x148	360735	LSQ.A-40-14-AS-SST-M16x148	40	M16	173	176	148	25	23.5	17	12	14	10000	237	244
360237	LSQ.A-40-14-SST-M16x168	360737	LSQ.A-40-14-AS-SST-M16x168	40	M16	193	196	168	25	23.5	17	12	14	10000	269	276
360291	LSQ.A-50-8.5-SST-M8x48	360791	LSQ.A-50-8.5-AS-SST-M8x48	50	M8	75	78	48	27	25.5	19	7	8.5	7000	39	51
360293	LSQ.A-50-8.5-SST-M8x73	360793	LSQ.A-50-8.5-AS-SST-M8x73	50	M8	100	103	73	27	25.5	19	7	8.5	7000	49	61
360301	LSQ.A-50-8.5-SST-M10x48	360801	LSQ.A-50-8.5-AS-SST-M10x48	50	M10	75	78	48	27	25.5	19	7	8.5	7000	46	58
360303	LSQ.A-50-8.5-SST-M10x73	360803	LSQ.A-50-8.5-AS-SST-M10x73	50	M10	100	103	73	27	25.5	19	7	8.5	7000	62	74
360305	LSQ.A-50-8.5-SST-M10x103	360805	LSQ.A-50-8.5-AS-SST-M10x103	50	M10	130	133	103	27	25.5	19	7	8.5	7000	80	92
360311	LSQ.A-50-8.5-SST-M12x48	360811	LSQ.A-50-8.5-AS-SST-M12x48	50	M12	75	78	48	27	25.5	19	9	8.5	7000	57	69
360313	LSQ.A-50-8.5-SST-M12x73	360813	LSQ.A-50-8.5-AS-SST-M12x73	50	M12	100	103	73	27	25.5	19	9	8.5	7000	79	91
360315	LSQ.A-50-8.5-SST-M12x103	360815	LSQ.A-50-8.5-AS-SST-M12x103	50	M12	130	133	103	27	25.5	19	9	8.5	7000	110	122
360331	LSQ.A-50-14-SST-M16x68	360831	LSQ.A-50-14-AS-SST-M16x68	50	M16	95	98	68	27	25.5	19	12	14	10000	115	127
360333	LSQ.A-50-14-SST-M16x108	360833	LSQ.A-50-14-AS-SST-M16x108	50	M16	135	138	108	27	25.5	19	12	14	10000	179	191
360335	LSQ.A-50-14-SST-M16x148	360835	LSQ.A-50-14-AS-SST-M16x148	50	M16	175	178	148	27	25.5	19	12	14	10000	243	255
360337	LSQ.A-50-14-SST-M16x168	360837	LSQ.A-50-14-AS-SST-M16x168	50	M16	195	198	168	27	25.5	19	12	14	10000	275	287

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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Ball jointed levelling feet

Steel / Stainless Steel

SPECIFICATION

Version in Steel ST

Thrust pad
Plastic (Polyacetal POM)

- temperature resistant up to 80 °C
- black, matt

Threaded stud
Steel, blackened

Tensile strength class 5.8

Version in Stainless Steel NI

Thrust pad
Plastic (Polyacetal POM)

- temperature resistant up to 80 °C
- black, matt

Threaded stud
Stainless Steel AISI 303

Version completely in Stainless Steel NV

Thrust pad
Stainless Steel AISI 303

- O-ring rubber FPM (Viton®)
- temperature resistant up to 200 °C

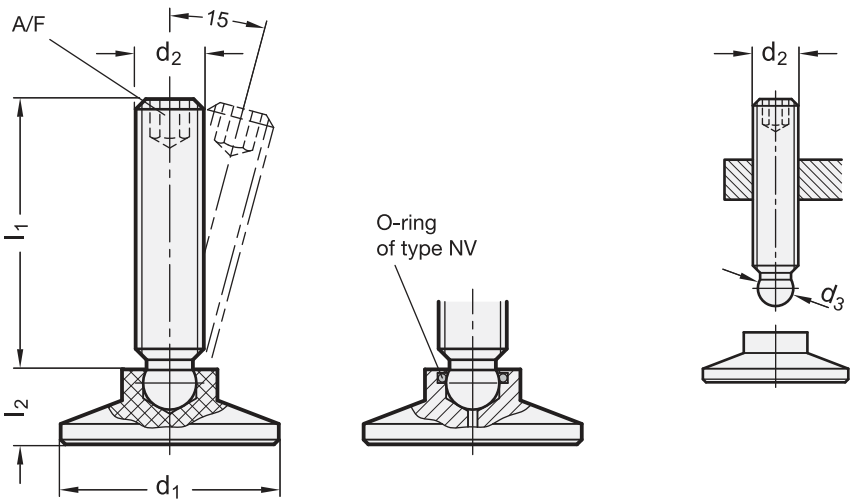
Threaded stud
Stainless Steel AISI 303

INFORMATION

Ball jointed levelling feet GN 638 feature a smaller size ball diameter than the trunk of the threaded stud. As a result the studs can be screwed into position from the ball side. The ball end can easily be hammered in and also dismantled.
Details regarding the static load capacity have been established by a series of tests but are indicative only. For these tests the loads have been placed vertically and centrally over the stud. At the measured load of 3.5 kN there was no remaining deformation visible on the thrust pad nor was there any breakage.

TECHNICAL INFORMATION

- Plastic characteristics (see page A2)
- Stainless Steel characteristics (see page A26)
- Strength values of screws (see page A20)



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GN 638 | Ball jointed levelling feet

*Complete with type index of the Ball jointed levelling feet

ST Steel

NI Stainless Steel

GN 638-ST/NI — **STAINLESS STEEL**

Description	d1	d2	l1	d3	l2	A/F	Static load in kN	⚖
GN 638-15-M6-26-*	15	M 6	26	4.5	7.6	3	3.5	5
GN 638-15-M6-36-*	15	M 6	36	4.5	7.6	3	3.5	6
GN 638-15-M6-46-*	15	M 6	46	4.5	7.6	3	3.5	7
GN 638-15-M8-20-*	15	M 8	20	6.1	7.6	4	3.5	8
GN 638-15-M8-35-*	15	M 8	35	6.1	7.6	4	3.5	11
GN 638-15-M8-45-*	15	M 8	45	6.1	7.6	4	3.5	13
GN 638-15-M8-58-*	15	M 8	58	6.1	7.6	4	3.5	18
GN 638-18-M6-26-*	18	M 6	26	4.5	9.2	3	3.5	11
GN 638-18-M6-36-*	18	M 6	36	4.5	9.2	3	3.5	11
GN 638-18-M6-46-*	18	M 6	46	4.5	9.2	3	3.5	11
GN 638-18-M8-20-*	18	M 8	20	6.1	9.2	4	3.5	11
GN 638-18-M8-35-*	18	M 8	35	6.1	9.2	4	3.5	11
GN 638-18-M8-45-*	18	M 8	45	6.1	9.2	4	3.5	17
GN 638-18-M8-58-*	18	M 8	58	6.1	9.2	4	3.5	19
GN 638-18-M10-34-*	18	M 10	34	7.8	9.2	5	3.5	18
GN 638-18-M10-44-*	18	M 10	44	7.8	9.2	5	3.5	24
GN 638-18-M10-57-*	18	M 10	57	7.8	9.2	5	3.5	29
GN 638-18-M10-74-*	18	M 10	74	7.8	9.2	5	3.5	37
GN 638-21-M6-26-*	21	M 6	26	4.5	10	3	3.5	7
GN 638-21-M6-36-*	21	M 6	36	4.5	10	3	3.5	11
GN 638-21-M6-46-*	21	M 6	46	4.5	10	3	3.5	11
GN 638-21-M8-20-*	21	M 8	20	6.1	10	4	3.5	10
GN 638-21-M8-35-*	21	M 8	35	6.1	10	4	3.5	11
GN 638-21-M8-45-*	21	M 8	45	6.1	10	4	3.5	16
GN 638-21-M8-58-*	21	M 8	58	6.1	10	4	3.5	20
GN 638-21-M10-34-*	21	M 10	34	7.8	10	5	3.5	19
GN 638-21-M10-44-*	21	M 10	44	7.8	10	5	3.5	25
GN 638-21-M10-57-*	21	M 10	57	7.8	10	5	3.5	31
GN 638-21-M10-74-*	21	M 10	74	7.8	10	5	3.5	40
GN 638-21-M12-34-*	21	M 12	34	9.4	10	6	3.5	23
GN 638-21-M12-57-*	21	M 12	57	9.4	10	6	3.5	44
GN 638-21-M12-74-*	21	M 12	74	9.4	10	6	3.5	56
GN 638-21-M12-94-*	21	M 12	94	9.4	10	6	3.5	71
GN 638-25-M6-26-*	25	M 6	26	4.5	10.5	3	3.5	10
GN 638-25-M6-36-*	25	M 6	36	4.5	10.5	3	3.5	11
GN 638-25-M6-46-*	25	M 6	46	4.5	10.5	3	3.5	11
GN 638-25-M8-20-*	25	M 8	20	6.1	10.5	4	3.5	9
GN 638-25-M8-35-*	25	M 8	35	6.1	10.5	4	3.5	14

GN 638-ST/NI — **STAINLESS STEEL**

Description	d1	d2	l1	d3	l2	A/F	Static load in kN	⚖
GN 638-25-M8-45-*	25	M 8	45	6.1	10.5	4	3.5	16
GN 638-25-M8-58-*	25	M 8	58	6.1	10.5	4	3.5	20
GN 638-25-M10-34-*	25	M 10	34	7.8	10.5	5	3.5	21
GN 638-25-M10-44-*	25	M 10	44	7.8	10.5	5	3.5	25
GN 638-25-M10-57-*	25	M 10	57	7.8	10.5	5	3.5	30
GN 638-25-M10-74-*	25	M 10	74	7.8	10.5	5	3.5	40
GN 638-25-M12-34-*	25	M 12	34	9.4	10.5	6	3.5	25
GN 638-25-M12-57-*	25	M 12	57	9.4	10.5	6	3.5	44
GN 638-25-M12-74-*	25	M 12	74	9.4	10.5	6	3.5	57
GN 638-25-M12-94-*	25	M 12	94	9.4	10.5	6	3.5	73
GN 638-32-M6-26-*	32	M 6	26	4.5	11	3	3.5	11
GN 638-32-M6-36-*	32	M 6	36	4.5	11	3	3.5	11
GN 638-32-M6-46-*	32	M 6	46	4.5	11	3	3.5	11
GN 638-32-M8-20-*	32	M 8	20	6.1	11	4	3.5	13
GN 638-32-M8-35-*	32	M 8	35	6.1	11	4	3.5	16
GN 638-32-M8-45-*	32	M 8	45	6.1	11	4	3.5	20
GN 638-32-M8-58-*	32	M 8	58	6.1	11	4	3.5	23
GN 638-32-M10-34-*	32	M 10	34	7.8	11	5	3.5	20
GN 638-32-M10-44-*	32	M 10	44	7.8	11	5	3.5	20
GN 638-32-M10-57-*	32	M 10	57	7.8	11	5	3.5	32
GN 638-32-M10-74-*	32	M 10	74	7.8	11	5	3.5	40
GN 638-32-M12-34-*	32	M 12	34	9.4	11	6	3.5	20
GN 638-32-M12-57-*	32	M 12	57	9.4	11	6	3.5	40
GN 638-32-M12-74-*	32	M 12	74	9.4	11	6	3.5	53
GN 638-32-M12-94-*	32	M 12	94	9.4	11	6	3.5	70
GN 638-40-M8-20-*	40	M 8	20	6.1	13	4	3.5	15
GN 638-40-M8-35-*	40	M 8	35	6.1	13	4	3.5	20
GN 638-40-M8-45-*	40	M 8	45	6.1	13	4	3.5	22
GN 638-40-M8-58-*	40	M 8	58	6.1	13	4	3.5	20
GN 638-40-M10-34-*	40	M 10	34	7.8	13	5	3.5	25
GN 638-40-M10-44-*	40	M 10	44	7.8	13	5	3.5	30
GN 638-40-M10-57-*	40	M 10	57	7.8	13	5	3.5	38
GN 638-40-M10-74-*	40	M 10	74	7.8	13	5	3.5	46
GN 638-40-M12-34-*	40	M 12	34	9.4	13	6	3.5	34
GN 638-40-M12-57-*	40	M 12	57	9.4	13	6	3.5	50
GN 638-40-M12-74-*	40	M 12	74	9.4	13	6	3.5	60
GN 638-40-M12-94-*	40	M 12	94	9.4	13	6	3.5	77

Weight type ST

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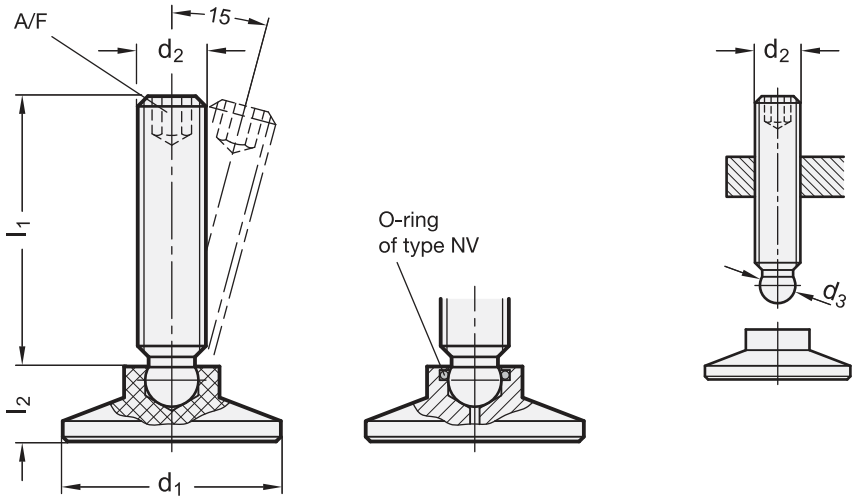
GN 638 | Ball jointed levelling feet



GN 638-NV — **STAINLESS STEEL**

Description	d1	d2	l1	d3	l2	A/F	Static load in kN	⚖
GN 638-21-M6-26-NV	21	M 6	26	4.5	10	3	3.5	20
GN 638-21-M6-36-NV	21	M 6	36	4.5	10	3	3.5	20
GN 638-21-M6-46-NV	21	M 6	46	4.5	10	3	3.5	20
GN 638-21-M8-20-NV	21	M 8	20	6.1	10	4	7	20
GN 638-21-M8-35-NV	21	M 8	35	6.1	10	4	7	20
GN 638-21-M8-45-NV	21	M 8	45	6.1	10	4	7	30
GN 638-21-M8-58-NV	21	M 8	58	6.1	10	4	7	40
GN 638-21-M10-34-NV	21	M 10	34	7.8	10	5	11	32
GN 638-21-M10-44-NV	21	M 10	44	7.8	10	5	11	36
GN 638-21-M10-57-NV	21	M 10	57	7.8	10	5	11	40
GN 638-21-M10-74-NV	21	M 10	74	7.8	10	5	11	58
GN 638-21-M12-34-NV	21	M 12	34	9.4	10	6	16	40
GN 638-21-M12-57-NV	21	M 12	57	9.4	10	6	16	55
GN 638-21-M12-74-NV	21	M 12	74	9.4	10	6	16	78
GN 638-21-M12-94-NV	21	M 12	94	9.4	10	6	16	70
GN 638-25-M6-26-NV	25	M 6	26	4.5	10.5	3	3.5	40
GN 638-25-M6-36-NV	25	M 6	36	4.5	10.5	3	3.5	80
GN 638-25-M6-46-NV	25	M 6	46	4.5	10.5	3	3.5	80
GN 638-25-M8-20-NV	25	M 8	20	6.1	10.5	4	7	38
GN 638-25-M8-35-NV	25	M 8	35	6.1	10.5	4	7	30
GN 638-25-M8-45-NV	25	M 8	45	6.1	10.5	4	7	35
GN 638-25-M8-58-NV	25	M 8	58	6.1	10.5	4	7	38
GN 638-25-M10-34-NV	25	M 10	34	7.8	10.5	5	11	34
GN 638-25-M10-44-NV	25	M 10	44	7.8	10.5	5	11	41
GN 638-25-M10-57-NV	25	M 10	57	7.8	10.5	5	11	50
GN 638-25-M10-74-NV	25	M 10	74	7.8	10.5	5	11	60
GN 638-25-M12-34-NV	25	M 12	34	9.4	10.5	6	16	60
GN 638-25-M12-57-NV	25	M 12	57	9.4	10.5	6	16	75
GN 638-25-M12-74-NV	25	M 12	74	9.4	10.5	6	16	75

GN 638-NV — **STAINLESS STEEL**

Description	d1	d2	l1	d3	l2	A/F	Static load in kN	⚖
GN 638-25-M12-94-NV	25	M 12	94	9.4	10.5	6	16	80
GN 638-32-M6-26-NV	32	M 6	26	4.5	11	3	3.5	39
GN 638-32-M6-36-NV	32	M 6	36	4.5	11	3	3.5	40
GN 638-32-M6-46-NV	32	M 6	46	4.5	11	3	3.5	40
GN 638-32-M8-20-NV	32	M 8	20	6.1	11	4	7	42
GN 638-32-M8-35-NV	32	M 8	35	6.1	11	4	7	40
GN 638-32-M8-45-NV	32	M 8	45	6.1	11	4	7	46
GN 638-32-M8-58-NV	32	M 8	58	6.1	11	4	7	62
GN 638-32-M10-34-NV	32	M 10	34	7.8	11	5	11	50
GN 638-32-M10-44-NV	32	M 10	44	7.8	11	5	11	62
GN 638-32-M10-57-NV	32	M 10	57	7.8	11	5	11	77
GN 638-32-M10-74-NV	32	M 10	74	7.8	11	5	11	89
GN 638-32-M12-34-NV	32	M 12	34	9.4	11	6	16	80
GN 638-32-M12-57-NV	32	M 12	57	9.4	11	6	16	81
GN 638-32-M12-74-NV	32	M 12	74	9.4	11	6	16	86
GN 638-32-M12-94-NV	32	M 12	94	9.4	11	6	16	86
GN 638-40-M8-20-NV	40	M 8	20	6.1	13	4	7	85
GN 638-40-M8-35-NV	40	M 8	35	6.1	13	4	7	80
GN 638-40-M8-45-NV	40	M 8	45	6.1	13	4	7	81
GN 638-40-M8-58-NV	40	M 8	58	6.1	13	4	7	86
GN 638-40-M10-34-NV	40	M 10	34	7.8	13	5	11	87
GN 638-40-M10-44-NV	40	M 10	44	7.8	13	5	11	92
GN 638-40-M10-57-NV	40	M 10	57	7.8	13	5	11	107
GN 638-40-M10-74-NV	40	M 10	74	7.8	13	5	11	107
GN 638-40-M12-34-NV	40	M 12	34	9.4	13	6	16	80
GN 638-40-M12-57-NV	40	M 12	57	9.4	13	6	16	100
GN 638-40-M12-74-NV	40	M 12	74	9.4	13	6	16	120
GN 638-40-M12-94-NV	40	M 12	94	9.4	13	6	16	140

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GN 339

Levelling mount

Steel / Stainless Steel / Threaded stem, not adjustable

SPECIFICATION

Types

- Type **KS**: with plastic cap, gliding
- Type **KR**: with plastic cap, non-gliding

Version in Steel ST

- Tensile strength class 5.8
- zinc plated, blue passivated
- Hexagon nut ISO 4035, Steel zinc plated, blue passivated

Version in Stainless Steel NI

- AISI 303
- Hexagon nut ISO 4035, Stainless Steel AISI 304

Plastic caps:

Type KS
Technopolymer (Polyacetal POM)
white (natural colour) RAL 9001

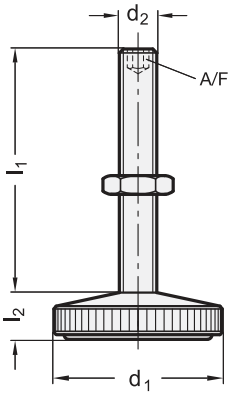
Type KR
Elastomer (TPE)
73 shore A ≈, black

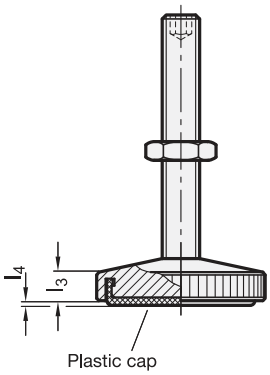
INFORMATION

Levelling mount GN 339 are used for applications in cases where no jointed link is required between foot and adjusting screw.
For this reason they offer the advantage of reduced height.
The gliding and/or the non-gliding protective cap is safely fixed in the foot.

TECHNICAL INFORMATION

- Elastomer characteristics (see page A32)
- Plastic characteristics (see page A2)
- Stainless Steel characteristics (see page A26)
- Strength values of screws (see page A20)





*Complete with type index of the Levelling mount

ST	NI
Steel	Stainless Steel

GN 339

Description	d1	d2	l1	l2 ≈	l3 ≈	l4	A/F	⚖
GN 339-29-M6-30-KR-*	29	M 6	30	8	5	0.4	3	30
GN 339-29-M6-45-KR-*	29	M 6	45	8	5	0.4	3	32
GN 339-29-M8-35-KR-*	29	M 8	35	8	5	0.4	4	37
GN 339-29-M8-55-KR-*	29	M 8	55	8	5	0.4	4	43
GN 339-36-M8-40-KR-*	36	M 8	40	9	6	0.5	4	56
GN 339-36-M8-65-KR-*	36	M 8	65	9	6	0.5	4	65
GN 339-36-M10-45-KR-*	36	M 10	45	9	6	0.5	5	70
GN 339-36-M10-70-KR-*	36	M 10	70	9	6	0.5	5	83
GN 339-29-M6-30-KS-*	29	M 6	30	8	5	1	3	34
GN 339-29-M6-45-KS-*	29	M 6	45	8	5	1	3	36
GN 339-29-M8-35-KS-*	29	M 8	35	8	5	1	4	41
GN 339-29-M8-55-KS-*	29	M 8	55	8	5	1	4	48
GN 339-36-M8-40-KS-*	36	M 8	40	9	6	1	4	64
GN 339-36-M8-65-KS-*	36	M 8	65	9	6	1	4	72
GN 339-36-M10-45-KS-*	36	M 10	45	9	6	1	5	78
GN 339-36-M10-70-KS-*	36	M 10	70	9	6	1	5	91

Weight type ST

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GN 343.3

Levelling feet

Foot plastic, female thread

SPECIFICATION

Types

- Type **A**: without rubber underlay
- Type **G**: with rubber underlay

Foot: Plastic (Polyamide PA)

- glass fibre reinforced
- black, matt
- temperature resistant up to 100 °C

Female thread
Steel

- Tensile strength class 5.8
- zinc plated, blue passivated

Hexagon nut ISO 4032
Steel
zinc plated, blue passivated

Rubber underlay (NBR)
70 Shore A, black

INFORMATION

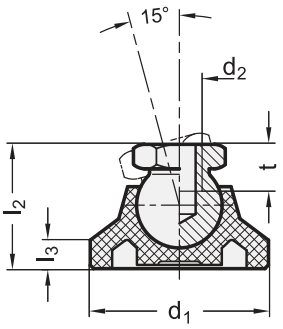
Levelling feet GN 343.3 are capable of withstanding high static loads through the use of a high density plastic material coupled with a design which distributes the load over a larger area.
Exceeding the static values specified in the table could lead to failure of the plastic component.
The above values have been arrived at by a series of load tests whereby a defined number of levelling feet were subjected to a vertical load over a defined period.
Under normal operating conditions side loading or angular loading is not uncommon and the load capacity would be considerably reduced which must be taken into consideration.
Levelling feet GN 343.3 are supplied assembled, but are removable.

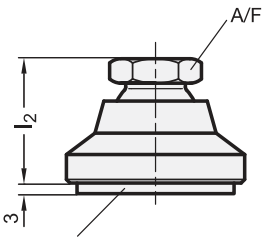
TECHNICAL INFORMATION

- Elastomer characteristics (see page A32)
- Plastic characteristics (see page A2)

ON REQUEST

- ESD version (conductive plastic cap to avoid electrostatic charging)





Rubber underlay (anti-slip type)

*Complete with type index of the Levelling feet (A or G)

A	G
without rubber underlay	with rubber underlay

GN 343.3

Description	d1	d2	l2	l3	A/F	t min.	Static load in kN	⚖
GN 343.3-25-M6-*	25	M 6	18.5	4	12	9	5	19
GN 343.3-25-M8-*	25	M 8	18.5	4	12	9	5	13
GN 343.3-32-M8-*	32	M 8	22.5	5	12	9	7	15
GN 343.3-32-M10-*	32	M 10	22.5	5	15	10.5	7	22
GN 343.3-40-M10-*	40	M 10	25.5	6	15	10.5	10	26
GN 343.3-40-M12-*	40	M 12	25.5	6	17	11.5	10	33
GN 343.3-50-M10-*	50	M 10	27.5	7	15	10.5	10	48
GN 343.3-50-M12-*	50	M 12	27.5	7	17	11.5	10	39
GN 343.3-60-M12-*	60	M 12	35.5	8.5	17	11.5	14	96
GN 343.3-60-M16-*	60	M 16	35.5	8.5	24	16	14	81

Weight type A

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GN 343.7

Levelling feet

Foot plastic / female thread Stainless Steel

SPECIFICATION

Types

- Type **A**: without rubber underlay
- Type **G**: with rubber underlay

Foot: Plastic (Polyamide PA)

- glass, fibre reinforced
- black, matt
- temperature resistant up to 100 °C

Female thread
Stainless Steel AISI 303

Rubber underlay (NBR)
70 Shore A, black

INFORMATION

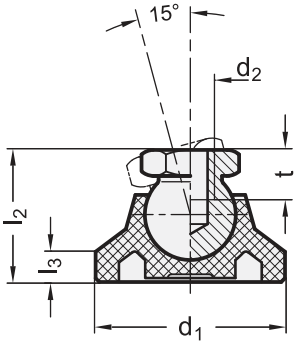
Levelling feet GN 343.7 are capable of withstanding high static loads through the use of a high density plastic material coupled with a design which distributes the load over a larger area.
Exceeding the static values specified in the table could lead to failure of the plastic component.
The values have been arrived at by a series of load tests whereby a defined number of levelling feet were subjected to a vertical load over a defined period.
Under normal operating conditions side loading or angular loading is not uncommon and the load capacity would be considerably reduced which must be taken into consideration.
Levelling feet GN 343.7 are supplied assembled, but are removable.

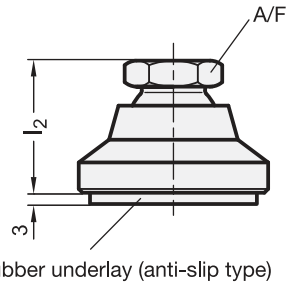
TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Elastomer characteristics (see page A32)
- Plastic characteristics (see pageA2)

ON REQUEST

- ESD version (conductive plastic cap to avoid electrostatic charging)





Rubber underlay (anti-slip type)

*Complete with type index of the Levelling feet (A or G)

A without rubber underlay

G with rubber underlay

GN 343.7

Description	d1	d2	l2	l3	A/F	t min.	Static load in kN	⚖
GN 343.7-25-M6-*	25	M 6	18.5	4	12	9	5	14
GN 343.7-25-M8-*	25	M 8	18.5	4	12	9	5	14
GN 343.7-32-M8-*	32	M 8	22.5	5	12	9	7	22
GN 343.7-32-M10-*	32	M 10	22.5	5	15	10.5	7	22
GN 343.7-40-M10-*	40	M 10	25.5	6	15	10.5	10	26
GN 343.7-40-M12-*	40	M 12	25.5	6	17	11.5	10	33
GN 343.7-50-M10-*	50	M 10	27.5	7	15	10.5	10	44
GN 343.7-50-M12-*	50	M 12	27.5	7	17	11.5	10	39
GN 343.7-60-M12-*	60	M 12	35.5	8.5	17	11.5	14	69
GN 343.7-60-M16-*	60	M 16	35.5	8.5	24	16	14	78

Weight type A

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Levelling feet

Foot, threaded stud steel

SPECIFICATION

Types

- Type **OS**: without plastic cap
- Type **KS**: with plastic cap, gliding
- Type **KR**: with plastic cap, non-gliding
- Type **KSE**: with plastic cap, gliding, electrically conductive (antistatic)
- Type **KRE**: with plastic cap, non-gliding, electrically conductive (antistatic)

Steel
Tensile strength class 5.8
zinc plated, blue passivated

Type **KS / KSE**
Plastic cap Polyacetal (POM)

KS: white (natural colour) RAL 9001
KSE: black, electrically conductive
Surface resistivity: $< 10^6\ \Omega$
Volume resistivity: $< 10^7\ \Omega$
DIN EN 61340-5-1 / 61340-2-3

Type **KR / KRE**
Plastic cap Elastomer (TPE), 78 Shore A ≈

KR: black
KRE: black, electrically conductive
Surface resistivity: $< 10^6\ \Omega$
Volume resistivity: $< 10^7\ \Omega$
DIN EN 61340-5-1 / 61340-2-3

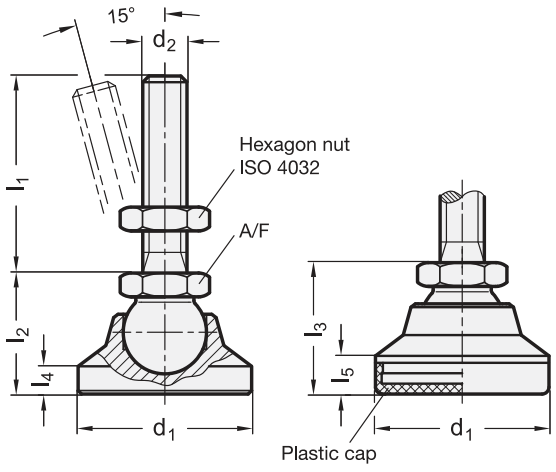
Hexagon nut ISO 4032
Steel, zinc plated, blue passivated

INFORMATION

The static load of the levelling feet GN 343.2 is limited by the load capacity of the ball joint threaded stud (tensile strength class 5.8). The static load values (only valid for Type OS / KS) in the table refer to a net vertical load in relation to the levelling foot. Under normal operating conditions side loading or angular loading is not uncommon and the load capacity would be considerably reduced which must be taken into consideration.
Levelling feet GN 343.2 cannot be disassembled.

TECHNICAL INFORMATION

- Elastomer characteristics (see page A32)
- Plastic characteristics (see page A2)
- Strength values of screws (see page A20)



*Complete with type index of the Levelling feet
OS **KS** **KR** **KSE** **KRE**

GN 343.2

Description	d1	d2	l1	l2	l3	l4	l5	A/F	Static load in kN	⚖
GN 343.2-25-M6-40-*	25	M 6	40	19	20.5	4	5.5	12	7.5	43
GN 343.2-25-M6-50-*	25	M 6	50	19	20.5	4	5.5	12	7.5	45
GN 343.2-25-M6-63-*	25	M 6	63	19	20.5	4	5.5	12	7.5	48
GN 343.2-25-M8-40-*	25	M 8	40	19	20.5	4	5.5	12	14	51
GN 343.2-25-M8-50-*	25	M 8	50	19	20.5	4	5.5	12	14	5
GN 343.2-25-M8-63-*	25	M 8	63	19	20.5	4	5.5	12	14	60
GN 343.2-25-M10-50-*	25	M 10	50	19	20.5	4	5.5	12	23	68
GN 343.2-25-M10-63-*	25	M 10	63	19	20.5	4	5.5	12	23	74
GN 343.2-25-M10-80-*	25	M 10	80	19	20.5	4	5.5	12	23	83

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GN 343.2 | Levelling feet

*Complete with type index of the Levelling feet

OS KS KR KSE KRE

GN 343.2

Description	d1	d2	l1	l2	l3	l4	l5	A/F	Static load in kN	⚖
GN 343.2-32-M8-40-*	32	M 8	40	23	24.5	5	6.5	12	14	80
GN 343.2-32-M8-50-*	32	M 8	50	23	24.5	5	6.5	12	14	60
GN 343.2-32-M8-63-*	32	M 8	63	23	24.5	5	6.5	12	14	38
GN 343.2-32-M10-50-*	32	M 10	50	23	24.5	5	6.5	15	23	102
GN 343.2-32-M10-63-*	32	M 10	63	23	24.5	5	6.5	15	23	100
GN 343.2-32-M10-80-*	32	M 10	80	23	24.5	5	6.5	15	23	117
GN 343.2-32-M12-63-*	32	M 12	63	23	24.5	5	6.5	15	33	127
GN 343.2-32-M12-80-*	32	M 12	80	23	24.5	5	6.5	15	33	140
GN 343.2-32-M12-100-*	32	M 12	100	23	24.5	5	6.5	15	33	154
GN 343.2-40-M8-50-*	40	M 8	50	26	27.5	6	7.5	15	14	130
GN 343.2-40-M8-63-*	40	M 8	63	26	27.5	6	7.5	15	14	134
GN 343.2-40-M8-80-*	40	M 8	80	26	27.5	6	7.5	15	14	139
GN 343.2-40-M10-50-*	40	M 10	50	26	27.5	6	7.5	15	23	143
GN 343.2-40-M10-63-*	40	M 10	63	26	27.5	6	7.5	15	23	150
GN 343.2-40-M10-80-*	40	M 10	80	26	27.5	6	7.5	15	23	140
GN 343.2-40-M12-63-*	40	M 12	63	26	27.5	6	7.5	17	33	178
GN 343.2-40-M12-80-*	40	M 12	80	26	27.5	6	7.5	17	33	182
GN 343.2-40-M12-100-*	40	M 12	100	26	27.5	6	7.5	17	33	198
GN 343.2-50-M8-50-*	50	M 8	50	28	29.5	7	8.5	15	14	196
GN 343.2-50-M8-63-*	50	M 8	63	28	29.5	7	8.5	15	14	199
GN 343.2-50-M8-80-*	50	M 8	80	28	29.5	7	8.5	15	14	204
GN 343.2-50-M10-50-*	50	M 10	50	28	29.5	7	8.5	15	23	200
GN 343.2-50-M10-63-*	50	M 10	63	28	29.5	7	8.5	15	23	214
GN 343.2-50-M10-80-*	50	M 10	80	28	29.5	7	8.5	15	23	220
GN 343.2-50-M12-63-*	50	M 12	63	28	29.5	7	8.5	17	33	213
GN 343.2-50-M12-80-*	50	M 12	80	28	29.5	7	8.5	17	33	240
GN 343.2-50-M12-100-*	50	M 12	100	28	29.5	7	8.5	17	33	261
GN 343.2-50-M16-63-*	50	M 16	63	28	29.5	7	8.5	17	40	284
GN 343.2-50-M16-80-*	50	M 16	80	28	29.5	7	8.5	17	40	308
GN 343.2-50-M16-100-*	50	M 16	100	28	29.5	7	8.5	17	40	334
GN 343.2-60-M10-50-*	60	M 10	50	36	37.5	8.5	10	17	23	365
GN 343.2-60-M10-63-*	60	M 10	63	36	37.5	8.5	10	17	23	372
GN 343.2-60-M10-80-*	60	M 10	80	36	37.5	8.5	10	17	23	380
GN 343.2-60-M12-63-*	60	M 12	63	36	37.5	8.5	10	17	33	380
GN 343.2-60-M12-80-*	60	M 12	80	36	37.5	8.5	10	17	33	400
GN 343.2-60-M12-100-*	60	M 12	100	36	37.5	8.5	10	17	33	420
GN 343.2-60-M16-80-*	60	M 16	80	36	37.5	8.5	10	24	62	469
GN 343.2-60-M16-100-*	60	M 16	100	36	37.5	8.5	10	24	62	500
GN 343.2-60-M16-125-*	60	M 16	125	36	37.5	8.5	10	24	62	540
GN 343.2-60-M20-98-*	60	M 20	98	36	37.5	8.5	10	24	95	580
GN 343.2-60-M20-138-*	60	M 20	138	36	37.5	8.5	10	24	95	680
GN 343.2-60-M20-158-*	60	M 20	158	36	37.5	8.5	10	24	95	720
GN 343.2-60-M24-98-*	60	M 24	98	36	37.5	8.5	10	24	95	727
GN 343.2-60-M24-138-*	60	M 24	138	36	37.5	8.5	10	24	95	837
GN 343.2-60-M24-158-*	60	M 24	158	36	37.5	8.5	10	24	95	923

Weight type KR

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Stainless Steel-Levelling feet

Adjustable spindle

SPECIFICATION

Types

- Type **OS**: without plastic cap
- Type **KS**: with plastic cap, gliding
- Type **KR**: with plastic cap, non-gliding
- Type **KSE**: with plastic cap, gliding, electrically conductive (antistatic)
- Type **KRE**: with plastic cap, non-gliding, electrically conductive (antistatic)

Stainless Steel AISI 303

Type **KS / KSE**
Plastic cap Polyacetal (POM)

KS: white (natural colour) RAL 9001

KSE: black, electrically conductive
Surface resistivity: $< 10^6\ \Omega$
Volume resistivity: $< 10^7\ \Omega$
DIN EN 61340-5-1 / 61340-2-3

Type **KR / KRE**
Plastic cap Elastomer (TPE), 78 Shore A ≈

KR: black

KRE: black, electrically conductive
Surface resistivity: $< 10^6\ \Omega$
Volume resistivity: $< 10^7\ \Omega$
DIN EN 61340-5-1 / 61340-2-3

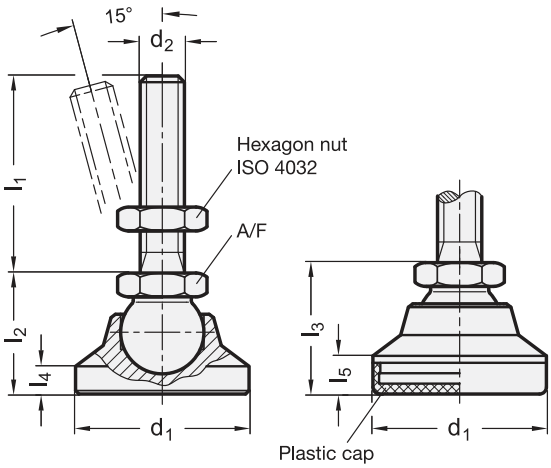
Hexagon nut ISO 4032
Stainless Steel AISI 304

INFORMATION

The static load of the Stainless Steel-Levelling feet GN GN 343.6 is limited by the load capacity of the ball joint / threaded stud (AISI 303).
The static load values (only valid for Type OS, KS and KSE) in the above table refer to a net vertical load in relation to the levelling foot. Under normal operating conditions side loading or angular loading is not uncommon and the load capacity would be considerably reduced which must be taken into consideration.
Stainless Steel-Levelling feet GN 343.6 cannot be disassembled.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Elastomer characteristics (see page A32)
- Plastic characteristics (see page A2)



*Complete with type index of the Levelling feet
OS KS KR KSE KRE

GN 343.6 — **STAINLESS STEEL**

Description	d1	d2	l1	l2	l3	l4	l5	A/F	Static load in kN	⚖
GN 343.6-25-M6-40-*	25	M 6	40	19	20.5	4	5.5	12	4	44
GN 343.6-25-M6-50-*	25	M 6	50	19	20.5	4	5.5	12	4	43
GN 343.6-25-M6-63-*	25	M 6	63	19	20.5	4	5.5	12	4	46
GN 343.6-25-M8-40-*	25	M 8	40	19	20.5	4	5.5	12	7	52
GN 343.6-25-M8-50-*	25	M 8	50	19	20.5	4	5.5	12	7	50
GN 343.6-25-M8-63-*	25	M 8	63	19	20.5	4	5.5	12	7	61
GN 343.6-25-M10-50-*	25	M 10	50	19	20.5	4	5.5	12	11	67

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GN 343.6 | Stainless Steel-Levelling feet

*Complete with type index of the Levelling feet

OS KS KR KSE KRE

GN 343.6 **STAINLESS STEEL**

Description	d1	d2	l1	l2	l3	l4	l5	A/F	Static load in kN	⚖
GN 343.6-25-M10-63-*	25	M 10	63	19	20.5	4	5.5	12	11	73
GN 343.6-25-M10-80-*	25	M 10	80	19	20.5	4	5.5	12	11	81
GN 343.6-32-M8-40-*	32	M 8	40	23	24.5	5	6.5	12	7	60
GN 343.6-32-M8-50-*	32	M 8	50	23	24.5	5	6.5	12	7	80
GN 343.6-32-M8-63-*	32	M 8	63	23	24.5	5	6.5	12	7	80
GN 343.6-32-M10-50-*	32	M 10	50	23	24.5	5	6.5	15	11	107
GN 343.6-32-M10-63-*	32	M 10	63	23	24.5	5	6.5	15	11	97
GN 343.6-32-M10-80-*	32	M 10	80	23	24.5	5	6.5	15	11	116
GN 343.6-32-M12-63-*	32	M 12	63	23	24.5	5	6.5	15	16	125
GN 343.6-32-M12-80-*	32	M 12	80	23	24.5	5	6.5	15	16	137
GN 343.6-32-M12-100-*	32	M 12	100	23	24.5	5	6.5	15	16	152
GN 343.6-40-M8-50-*	40	M 8	50	26	27.5	6	7.5	15	7	129
GN 343.6-40-M8-63-*	40	M 8	63	26	27.5	6	7.5	15	7	134
GN 343.6-40-M8-80-*	40	M 8	80	26	27.5	6	7.5	15	7	139
GN 343.6-40-M10-50-*	40	M 10	50	26	27.5	6	7.5	15	11	140
GN 343.6-40-M10-63-*	40	M 10	63	26	27.5	6	7.5	15	11	150
GN 343.6-40-M10-80-*	40	M 10	80	26	27.5	6	7.5	15	11	160
GN 343.6-40-M12-63-*	40	M 12	63	26	27.5	6	7.5	17	16	173
GN 343.6-40-M12-80-*	40	M 12	80	26	27.5	6	7.5	17	16	180
GN 343.6-40-M12-100-*	40	M 12	100	26	27.5	6	7.5	17	16	202
GN 343.6-50-M8-50-*	50	M 8	50	26	29.5	7	8.5	15	7	198
GN 343.6-50-M8-63-*	50	M 8	63	26	29.5	7	8.5	15	7	200
GN 343.6-50-M8-80-*	50	M 8	80	26	29.5	7	8.5	15	7	207
GN 343.6-50-M10-50-*	50	M 10	50	28	29.5	7	8.5	15	11	200
GN 343.6-50-M10-63-*	50	M 10	63	28	29.5	7	8.5	15	11	200
GN 343.6-50-M10-80-*	50	M 10	80	28	29.5	7	8.5	15	11	220
GN 343.6-50-M12-63-*	50	M 12	63	28	29.5	7	8.5	17	16	245
GN 343.6-50-M12-80-*	50	M 12	80	28	29.5	7	8.5	17	16	240
GN 343.6-50-M12-100-*	50	M 12	100	28	29.5	7	8.5	17	16	220
GN 343.6-50-M16-63-*	50	M 16	63	28	29.5	7	8.5	17	30	290
GN 343.6-50-M16-80-*	50	M 16	80	28	29.5	7	8.5	17	30	314
GN 343.6-50-M16-100-*	50	M 16	100	28	29.5	7	8.5	17	30	338
GN 343.6-60-M10-50-*	60	M 10	50	36	37.5	8.5	10	17	11	370
GN 343.6-60-M10-63-*	60	M 10	63	36	37.5	8.5	10	17	11	375
GN 343.6-60-M10-80-*	60	M 10	80	36	37.5	8.5	10	17	11	384
GN 343.6-60-M12-63-*	60	M 12	63	36	37.5	8.5	10	17	16	400
GN 343.6-60-M12-80-*	60	M 12	80	36	37.5	8.5	10	17	16	400
GN 343.6-60-M12-100-*	60	M 12	100	36	37.5	8.5	10	17	16	400
GN 343.6-60-M16-80-*	60	M 16	80	36	37.5	8.5	10	24	30	470
GN 343.6-60-M16-100-*	60	M 16	100	36	37.5	8.5	10	24	30	480
GN 343.6-60-M16-125-*	60	M 16	125	36	37.5	8.5	10	24	30	524
GN 343.6-60-M20-98-*	60	M 20	98	36	37.5	8.5	10	24	45	550
GN 343.6-60-M20-138-*	60	M 20	138	36	37.5	8.5	10	24	45	660
GN 343.6-60-M20-158-*	60	M 20	158	36	37.5	8.5	10	24	45	700
GN 343.6-60-M24-98-*	60	M 24	98	36	37.5	8.5	10	24	45	712
GN 343.6-60-M24-138-*	60	M 24	138	36	37.5	8.5	10	24	45	800
GN 343.6-60-M24-158-*	60	M 24	158	36	37.5	8.5	10	24	45	900

Weight type KR

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Levelling mounts

Foot, female thread

SPECIFICATION

Types

- Type **OS**: without plastic cap
- Type **KS**: with plastic cap, gliding
- Type **KR**: with plastic cap, non-gliding
- Type **KSE**: with plastic cap, gliding, electrically conductive (antistatic)
- Type **KRE**: with plastic cap, non-gliding, electrically conductive (antistatic)

Steel
Tensile strength class 5.8
zinc plated, blue passivated

Type **KS / KSE**
Plastic cap Polyacetal (POM)

KS: white (natural colour) RAL 9001

KSE: black, electrically conductive
Surface resistivity: < 10^6 Ω
Volume resistivity: < 10^7 Ω
DIN EN 61340-5-1 / 61340-2-3

Type **KR / KRE**
Plastic cap Elastomer (TPE), 78 Shore A ≈

KR: black

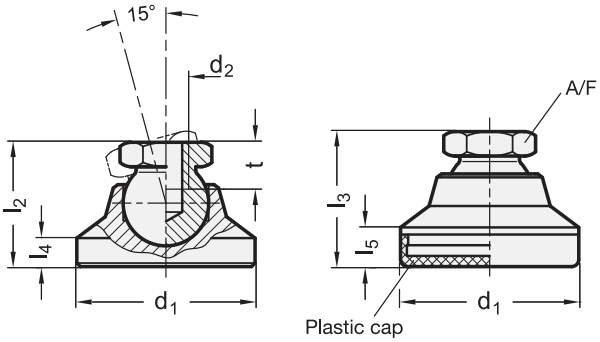
KRE: black, electrically conductive
Surface resistivity: < 10^6 Ω
Volume resistivity: < 10^7 Ω
DIN EN 61340-5-1 / 61340-2-3

INFORMATION

The static load of the levelling mounts GN 343.1 is limited by the load capacity of the ball joint with threaded stud (tensile strength class 5.8). The static load values (only valid for Type OS / KS) in the table refer to a net vertical load in relation to the levelling foot. Under normal operating conditions side loading or angular loading is not uncommon and the load capacity would be considerably reduced which must be taken into consideration.
Levelling feet GN 343.1 cannot be disassembled.

TECHNICAL INFORMATION

- Elastomer characteristics (see page A32)
- Plastic characteristics (see page A2)
- Strength values (see page A20)



*Complete with type index of the Levelling feet

OS **KS** **KR** **KSE** **KRE**

GN 343.1

Description	d1	d2	l2	l3	l4	l5	A/F	t min.	⚖
GN 343.1-25-M6-*	25	M 6	19	20.5	4	5.5	12	9	31
GN 343.1-25-M8-*	25	M 8	19	20.5	4	5.5	12	9	29
GN 343.1-32-M8-*	32	M 8	23	24.5	5	6.5	12	9	65
GN 343.1-32-M10-*	32	M 10	23	24.5	5	6.5	15	10.5	60
GN 343.1-40-M10-*	40	M 10	26	27.5	6	7.5	15	10.5	101
GN 343.1-40-M12-*	40	M 12	26	27.5	6	7.5	17	11.5	100
GN 343.1-50-M10-*	50	M 10	28	29.5	7	8.5	15	10.5	166
GN 343.1-50-M12-*	50	M 12	28	29.5	7	8.5	17	11.5	162
GN 343.1-60-M12-*	60	M 12	36	37.5	8.5	10	17	11.5	320
GN 343.1-60-M16-*	60	M 16	36	37.5	8.5	10	24	16	296

Weight type KR

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GN 343.5

Stainless Steel-Levelling feet

Female thread

SPECIFICATION

Types

- Type **OS**: without plastic cap
- Type **KS**: with plastic cap, gliding
- Type **KR**: with plastic cap, non-gliding
- Type **KSE**: with plastic cap, gliding, electrically conductive (antistatic)
- Type **KRE**: with plastic cap, non-gliding, electrically conductive (antistatic)

Stainless Steel AISI 303

Type **KS / KSE**
Plastic cap Polyacetal (POM)

KS: white (natural colour) RAL 9001

KSE: black, electrically conductive
Surface resistivity: $< 10^6\ \Omega$
Volume resistivity: $< 10^7\ \Omega$
DIN EN 61340-5-1 / 61340-2-3

Type **KR / KRE**
Plastic cap elastomer (TPE), 78 Shore A ≈

KR: black

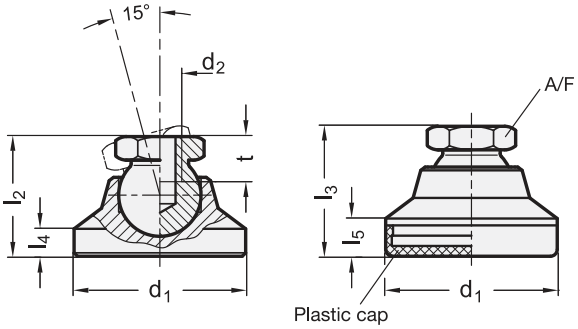
KRE: black, electrically conductive
Surface resistivity: $< 10^6\ \Omega$
Volume resistivity: $< 10^7\ \Omega$
DIN EN 61340-5-1 / 61340-2-3

INFORMATION

The static load of the Stainless Steel-Levelling feet GN 343.5 is limited by the load capacity of the ball joint (AISI 303).
The static load values (only valid for Type OS, KS and KSE) in the above table refer to a net vertical load in relation to the levelling foot. Under normal operating conditions side loading or angular loading is not uncommon and the load capacity would be considerably reduced which must be taken into consideration.
Levelling feet GN 343.5 cannot be disassembled.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Elastomer characteristics (see page A32)
- Plastic characteristics (see page A2)



*Complete with type index of the Levelling feet

OS **KS** **KR** **KSE** **KRE**

GN 343.5 **STAINLESS STEEL**

Description	d1	d2	l2	l3	l4	l5	A/F	t min.	⚖
GN 343.5-25-M6-*	25	M 6	19	20.5	4	5.5	12	9	30
GN 343.5-25-M8-*	25	M 8	19	20.5	4	5.5	12	9	25
GN 343.5-32-M8-*	32	M 8	23	24.5	5	6.5	12	9	57
GN 343.5-32-M10-*	32	M 10	23	24.5	5	6.5	15	10.5	55
GN 343.5-40-M10-*	40	M 10	26	27.5	6	7.5	15	10.5	110
GN 343.5-40-M12-*	40	M 12	26	27.5	6	7.5	17	11.5	99
GN 343.5-50-M10-*	50	M 10	28	29.5	7	8.5	15	10.5	170
GN 343.5-50-M12-*	50	M 12	28	29.5	7	8.5	17	11.5	161
GN 343.5-60-M12-*	60	M 12	36	37.5	8.5	10	17	11.5	320
GN 343.5-60-M16-*	60	M 16	36	37.5	8.5	10	24	16	305

Weight type KR

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Levelling elements

Technopolymer base, steel stem

BASE
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

ARTICULATED STEM
Threaded zinc-plated steel with regulation hexagon.

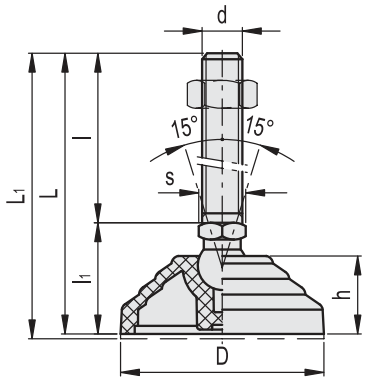
STANDARD EXECUTIONS
- **LV.A**: without no-slip disk.
- **LV.A-AS:** with NBR rubber no-slip disk, hardness 70 Shore A, supplied assembled to the base.

FEATURES
The special knurling under the lower lip of the base provides excellent stability and grip when using the levelling element without no-slip disk even on surfaces that are not perfectly flat.
The particular assembling system of the no-slip disk to the base assures a perfect anchoring, preventing separation even in case of impact during transport or of adhesion (sticking) to the floor (see No-slip disk on page 1223).

ORDER INFORMATION
The levelling elements are supplied unassembled to make carriage and storage easier. The components (base and stem) are supplied in separate packing: less volume taken and better protection from scratches and dirt.
To order bases and stems separately, see:
table of the possible combinations Bases/Stems on page 1229.

ACCESSORIES ON REQUEST
Zinc-plated steel nut (see Nuts NT. on page 1223).

ELESA Original design



LV.A **LV.A-AS**

Code	Description	Code	Description	D	d	L	L1#	l	l1	h	s	Articulation Ø	Max. limit static load* [N]	⚖	⚖ #
303121	LV.A-60-14-M8x43	307121	LV.A-60-14-AS-M8x43	60	M8	76	79	43	33	24	14	14	14000	62	81
303125	LV.A-60-14-M8x68	307125	LV.A-60-14-AS-M8x68	60	M8	101	104	68	33	24	14	14	14000	74	93
303221	LV.A-60-14-M10x43	307221	LV.A-60-14-AS-M10x43	60	M10	76	79	43	33	24	14	14	14000	71	90
303225	LV.A-60-14-M10x68	307225	LV.A-60-14-AS-M10x68	60	M10	101	104	68	33	24	14	14	14000	83	102
303231	LV.A-60-14-M10x98	307231	LV.A-60-14-AS-M10x98	60	M10	131	134	98	33	24	14	14	14000	97	116
303321	LV.A-60-14-M12x43	307321	LV.A-60-14-AS-M12x43	60	M12	76	79	43	33	24	14	14	14000	81	100
303325	LV.A-60-14-M12x68	307325	LV.A-60-14-AS-M12x68	60	M12	101	104	68	33	24	14	14	14000	98	117
303331	LV.A-60-14-M12x98	307331	LV.A-60-14-AS-M12x98	60	M12	131	134	98	33	24	14	14	14000	119	138
303421	LV.A-60-14-M14X68	307421	LV.A-60-14-AS-M14X68	60	M14	101	104	68	33	24	14	14	14000	123	139
303431	LV.A-60-14-M14X98	307431	LV.A-60-14-AS-M14X98	60	M14	131	134	98	33	24	14	14	14000	144	160
303441	LV.A-60-14-M14X148	307441	LV.A-60-14-AS-M14X148	60	M14	181	184	148	33	24	14	14	14000	227	243
303521	LV.A-60-14-M16x68	307521	LV.A-60-14-AS-M16x68	60	M16	101	104	68	33	24	16	14	14000	142	161
303525	LV.A-60-14-M16x108	307525	LV.A-60-14-AS-M16x108	60	M16	141	144	108	33	24	16	14	14000	194	213
303541	LV.A-60-14-M16x148	307541	LV.A-60-14-AS-M16x148	60	M16	181	184	148	33	24	16	14	14000	246	265
303561	LV.A-60-14-M16x168	307561	LV.A-60-14-AS-M16x168	60	M16	201	204	168	33	24	16	14	14000	272	291

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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LV.A		LV.A-AS													
Code	Description	Code	Description	D	d	L	L1#	l	l1	h	s	Articulation Ø	Max. limit static load* [N]	⚖	⚖ #
303621	LV.A-60-24-M16x58	307621	LV.A-60-24-AS-M16x58	60	M16	101	104	58	43	24	24	24	18000	205	224
303625	LV.A-60-24-M16x98	307625	LV.A-60-24-AS-M16x98	60	M16	141	144	98	43	24	24	24	18000	256	275
303641	LV.A-60-24-M16x138	307641	LV.A-60-24-AS-M16x138	60	M16	181	184	138	43	24	24	24	18000	306	325
303661	LV.A-60-24-M16x158	307661	LV.A-60-24-AS-M16x158	60	M16	201	204	158	43	24	24	24	18000	333	352
303725	LV.A-60-24-M20x98	307725	LV.A-60-24-AS-M20x98	60	M20	141	144	98	43	24	24	24	18000	326	345
303741	LV.A-60-24-M20x138	307741	LV.A-60-24-AS-M20x138	60	M20	181	184	138	43	24	24	24	18000	405	424
303761	LV.A-60-24-M20x158	307761	LV.A-60-24-AS-M20x158	60	M20	201	204	158	43	24	24	24	18000	444	463
303781	LV.A-60-24-M20x198	307781	LV.A-60-24-AS-M20x198	60	M20	241	244	198	43	24	24	24	18000	527	546
303825	LV.A-60-24-M24x98	307825	LV.A-60-24-AS-M24x98	60	M24	141	144	98	43	24	24	24	18000	424	443
303861	LV.A-60-24-M24x158	307861	LV.A-60-24-AS-M24x158	60	M24	201	204	158	43	24	24	24	18000	596	615
303881	LV.A-60-24-M24x198	307881	LV.A-60-24-AS-M24x198	60	M24	241	244	198	43	24	24	24	18000	714	733
304005	LV.A-70-14-M8x43	308005	LV.A-70-14-AS-M8x43	70	M8	71	74	43	28	19	14	14	14000	60	80
304011	LV.A-70-14-M8x68	308011	LV.A-70-14-AS-M8x68	70	M8	96	99	68	28	19	14	14	14000	72	92
304021	LV.A-70-14-M10x43	308021	LV.A-70-14-AS-M10x43	70	M10	71	74	43	28	19	14	14	14000	69	89
304025	LV.A-70-14-M10x68	308025	LV.A-70-14-AS-M10x68	70	M10	96	99	68	28	19	14	14	14000	81	101
304031	LV.A-70-14-M10x98	308031	LV.A-70-14-AS-M10x98	70	M10	126	129	98	28	19	14	14	14000	95	115
304061	LV.A-70-14-M12x43	308061	LV.A-70-14-AS-M12x43	70	M12	71	74	43	28	19	14	14	14000	79	99
304065	LV.A-70-14-M12x68	308065	LV.A-70-14-AS-M12x68	70	M12	96	99	68	28	19	14	14	14000	96	116
304071	LV.A-70-14-M12x98	308071	LV.A-70-14-AS-M12x98	70	M12	126	129	98	28	19	14	14	14000	117	137
304075	LV.A-70-14-M14X68	308075	LV.A-70-14-AS-M14X68	70	M14	96	99	68	28	19	14	14	14000	118	138
304081	LV.A-70-14-M14X98	308081	LV.A-70-14-AS-M14X98	70	M14	126	129	98	28	19	14	14	14000	139	159
304085	LV.A-70-14-M14X148	308085	LV.A-70-14-AS-M14X148	70	M14	176	179	148	28	19	14	14	14000	222	242
304101	LV.A-70-14-M16x68	308101	LV.A-70-14-AS-M16x68	70	M16	96	99	68	28	19	16	14	14000	140	160
304105	LV.A-70-14-M16x108	308105	LV.A-70-14-AS-M16x108	70	M16	136	139	108	28	19	16	14	14000	192	212
304111	LV.A-70-14-M16x148	308111	LV.A-70-14-AS-M16x148	70	M16	176	179	148	28	19	16	14	14000	244	264
304115	LV.A-70-14-M16x168	308115	LV.A-70-14-AS-M16x168	70	M16	196	199	168	28	19	16	14	14000	270	290
304121	LV.A-80-14-M8x43	308121	LV.A-80-14-AS-M8x43	80	M8	76	79	43	33	24	14	14	16000	83	109
304125	LV.A-80-14-M8x68	308125	LV.A-80-14-AS-M8x68	80	M8	101	104	68	33	24	14	14	16000	95	121
304221	LV.A-80-14-M10x43	308221	LV.A-80-14-AS-M10x43	80	M10	76	79	43	33	24	14	14	16000	92	118
304225	LV.A-80-14-M10x68	308225	LV.A-80-14-AS-M10x68	80	M10	101	104	68	33	24	14	14	16000	104	130
304231	LV.A-80-14-M10x98	308231	LV.A-80-14-AS-M10x98	80	M10	131	134	98	33	24	14	14	16000	118	144
304321	LV.A-80-14-M12x43	308321	LV.A-80-14-AS-M12x43	80	M12	76	79	43	33	24	14	14	16000	102	128
304325	LV.A-80-14-M12x68	308325	LV.A-80-14-AS-M12x68	80	M12	101	104	68	33	24	14	14	16000	119	145
304331	LV.A-80-14-M12x98	308331	LV.A-80-14-AS-M12x98	80	M12	131	134	98	33	24	14	14	16000	140	166
304421	LV.A-80-14-M14X68	308421	LV.A-80-14-AS-M14X68	80	M14	101	104	68	33	24	14	14	16000	141	167
304431	LV.A-80-14-M14X98	308431	LV.A-80-14-AS-M14X98	80	M14	131	134	98	33	24	14	14	16000	162	188
304441	LV.A-80-14-M14X148	308441	LV.A-80-14-AS-M14X148	80	M14	181	184	148	33	24	14	14	16000	245	271
304521	LV.A-80-14-M16x68	308521	LV.A-80-14-AS-M16x68	80	M16	101	104	68	33	24	16	14	16000	163	189
304525	LV.A-80-14-M16x108	308525	LV.A-80-14-AS-M16x108	80	M16	141	144	108	33	24	16	14	16000	215	241
304541	LV.A-80-14-M16x148	308541	LV.A-80-14-AS-M16x148	80	M16	181	184	148	33	24	16	14	16000	267	293
304561	LV.A-80-14-M16x168	308561	LV.A-80-14-AS-M16x168	80	M16	201	204	168	33	24	16	14	16000	293	319
304621	LV.A-80-24-M16x58	308621	LV.A-80-24-AS-M16x58	80	M16	101	104	58	43	24	24	24	18000	225	251
304625	LV.A-80-24-M16x98	308625	LV.A-80-24-AS-M16x98	80	M16	141	144	98	43	24	24	24	18000	276	302
304641	LV.A-80-24-M16x138	308641	LV.A-80-24-AS-M16x138	80	M16	181	184	138	43	24	24	24	18000	326	352
304661	LV.A-80-24-M16x158	308661	LV.A-80-24-AS-M16x158	80	M16	201	204	158	43	24	24	24	18000	353	379
304725	LV.A-80-24-M20x98	308725	LV.A-80-24-AS-M20x98	80	M20	141	144	98	43	24	24	24	18000	346	372
304741	LV.A-80-24-M20x138	308741	LV.A-80-24-AS-M20x138	80	M20	181	184	138	43	24	24	24	18000	425	451
304761	LV.A-80-24-M20x158	308761	LV.A-80-24-AS-M20x158	80	M20	201	204	158	43	24	24	24	18000	464	490
304781	LV.A-80-24-M20x198	308781	LV.A-80-24-AS-M20x198	80	M20	241	244	198	43	24	24	24	18000	547	573
304825	LV.A-80-24-M24x98	308825	LV.A-80-24-AS-M24x98	80	M24	141	144	98	43	24	24	24	18000	444	470
304861	LV.A-80-24-M24x158	308861	LV.A-80-24-AS-M24x158	80	M24	201	204	158	43	24	24	24	18000	616	642
304881	LV.A-80-24-M24x198	308881	LV.A-80-24-AS-M24x198	80	M24	241	244	198	43	24	24	24	18000	734	760

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

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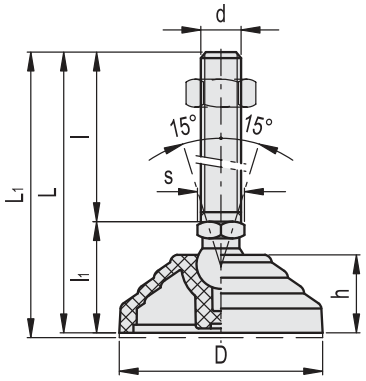

LV.A **LV.A-AS**

Code	Description	Code	Description	D	d	L	L1#	l	l1	h	s	Articulation Ø	Max. limit static load* [N]	⚖	⚖ #
305451	LV.A-100-14-M8x43	309451	LV.A-100-14-AS-M8x43	100	M8	76	79	43	33	24	14	14	18000	91	146
305453	LV.A-100-14-M8x68	309453	LV.A-100-14-AS-M8x68	100	M8	101	104	68	33	24	14	14	18000	103	158
305461	LV.A-100-14-M10x43	309461	LV.A-100-14-AS-M10x43	100	M10	76	79	43	33	24	14	14	18000	100	155
305463	LV.A-100-14-M10x68	309463	LV.A-100-14-AS-M10x68	100	M10	101	104	68	33	24	14	14	18000	112	167
305465	LV.A-100-14-M10x98	309465	LV.A-100-14-AS-M10x98	100	M10	131	134	98	33	24	14	14	18000	126	181
305471	LV.A-100-14-M12x43	309471	LV.A-100-14-AS-M12x43	100	M12	76	79	43	33	24	14	14	18000	110	165
305473	LV.A-100-14-M12x68	309473	LV.A-100-14-AS-M12x68	100	M12	101	104	68	33	24	14	14	18000	127	182
305475	LV.A-100-14-M12x98	309475	LV.A-100-14-AS-M12x98	100	M12	131	134	98	33	24	14	14	18000	148	203
305477	LV.A-100-14-M14X68	309477	LV.A-100-14-AS-M14X68	100	M14	101	104	68	33	24	14	14	18000	149	204
305479	LV.A-100-14-M14X98	309479	LV.A-100-14-AS-M14X98	100	M14	131	134	98	33	24	14	14	18000	170	225
305480	LV.A-100-14-M14X148	309480	LV.A-100-14-AS-M14X148	100	M14	181	184	148	33	24	14	14	18000	253	308
305481	LV.A-100-14-M16x68	309481	LV.A-100-14-AS-M16x68	100	M16	101	104	68	33	24	16	14	18000	171	226
305483	LV.A-100-14-M16x108	309483	LV.A-100-14-AS-M16x108	100	M16	141	144	108	33	24	16	14	18000	223	278
305485	LV.A-100-14-M16x148	309485	LV.A-100-14-AS-M16x148	100	M16	181	184	148	33	24	16	14	18000	275	330
305487	LV.A-100-14-M16x168	309487	LV.A-100-14-AS-M16x168	100	M16	201	204	168	33	24	16	14	18000	301	356
305521	LV.A-100-24-M16x58	309521	LV.A-100-24-AS-M16x58	100	M16	101	104	58	43	24	24	24	25000	251	305
305525	LV.A-100-24-M16x98	309525	LV.A-100-24-AS-M16x98	100	M16	141	144	98	43	24	24	24	25000	302	356
305541	LV.A-100-24-M16x138	309541	LV.A-100-24-AS-M16x138	100	M16	181	184	138	43	24	24	24	25000	352	406
305561	LV.A-100-24-M16x158	309561	LV.A-100-24-AS-M16x158	100	M16	201	204	158	43	24	24	24	25000	379	433
305625	LV.A-100-24-M20x98	309625	LV.A-100-24-AS-M20x98	100	M20	141	144	98	43	24	24	24	25000	372	426
305641	LV.A-100-24-M20x138	309641	LV.A-100-24-AS-M20x138	100	M20	181	184	138	43	24	24	24	25000	451	505
305661	LV.A-100-24-M20x158	309661	LV.A-100-24-AS-M20x158	100	M20	201	204	158	43	24	24	24	25000	490	544
305681	LV.A-100-24-M20x198	309681	LV.A-100-24-AS-M20x198	100	M20	241	244	198	43	24	24	24	25000	573	627
305725	LV.A-100-24-M24x98	309725	LV.A-100-24-AS-M24x98	100	M24	141	144	98	43	24	24	24	25000	470	524
305761	LV.A-100-24-M24x158	309761	LV.A-100-24-AS-M24x158	100	M24	201	204	158	43	24	24	24	25000	642	696
305781	LV.A-100-24-M24x198	309781	LV.A-100-24-AS-M24x198	100	M24	241	244	198	43	24	24	24	25000	760	814
306521	LV.A-125-24-M16x58	310221	LV.A-125-24-AS-M16x58	125	M16	125	128	58	67	46	24	24	28000	386	512
306525	LV.A-125-24-M16x98	310225	LV.A-125-24-AS-M16x98	125	M16	165	168	98	67	46	24	24	28000	437	563
306541	LV.A-125-24-M16x138	310241	LV.A-125-24-AS-M16x138	125	M16	205	208	138	67	46	24	24	28000	487	613
306561	LV.A-125-24-M16x158	310261	LV.A-125-24-AS-M16x158	125	M16	225	228	158	67	46	24	24	28000	514	640
306625	LV.A-125-24-M20x98	310325	LV.A-125-24-AS-M20x98	125	M20	165	168	98	67	46	24	24	28000	507	633
306641	LV.A-125-24-M20x138	310341	LV.A-125-24-AS-M20x138	125	M20	205	208	138	67	46	24	24	28000	586	712
306661	LV.A-125-24-M20x158	310361	LV.A-125-24-AS-M20x158	125	M20	225	228	158	67	46	24	24	28000	625	751
306681	LV.A-125-24-M20x198	310381	LV.A-125-24-AS-M20x198	125	M20	265	268	198	67	46	24	24	28000	708	834
306725	LV.A-125-24-M24x98	310425	LV.A-125-24-AS-M24x98	125	M24	165	168	98	67	46	24	24	28000	605	731
306761	LV.A-125-24-M24x158	310461	LV.A-125-24-AS-M24x158	125	M24	225	228	158	67	46	24	24	28000	777	903
306781	LV.A-125-24-M24x198	310481	LV.A-125-24-AS-M24x198	125	M24	265	268	198	67	46	24	24	28000	895	1021

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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Levelling elements

Technopolymer base, stainless steel stem

BASE
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

ARTICULATED STEM
Threaded AISI 304 stainless steel with regulation hexagon.

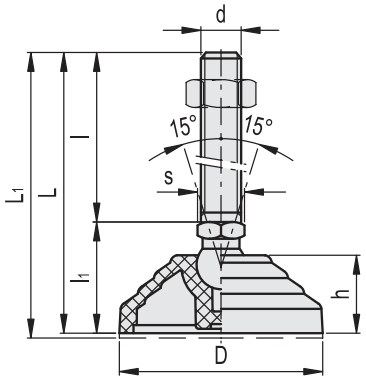
STANDARD EXECUTIONS
- **LV.A-SST**: without no-slip disk.
- **LV.A-AS-SST:** with NBR rubber no-slip disk, hardness 70 Shore A, supplied assembled to the base.

FEATURES
The special knurling under the lower lip of the base provides excellent stability and grip when using the levelling element without no-slip disk even on surfaces that are not perfectly flat.
The particular assembling system of the no-slip disk to the base assures a perfect anchoring, preventing separation even in case of impact during transport or of adhesion (sticking) to the floor (see No-slip disk on page 1223).

ORDER INFORMATION
The levelling elements are supplied unassembled to make carriage and storage easier. The components (base and stem) are supplied in separate packing: less volume taken and better protection from scratches and dirt.
To order bases and stems separately, see:
table of the possible combinations Bases/Stems on page 1229.

ACCESSORIES ON REQUEST
AISI 304 stainless steel nut (see Nuts NT. on page 1223).

ELESA Original design



LV.A-SST **LV.A-AS-SST** **STAINLESS STEEL**

Code	Description	Code	Description	D	d	L	L1#	l	l1	h	s	Articulation Ø	Max. limit static load* [N]	⚖	⚖#
323121	LV.A-60-14-SST-M8x43	327121	LV.A-60-14-AS-SST-M8x43	60	M8	76	79	43	33	24	14	14	14000	63	82
323125	LV.A-60-14-SST-M8x68	327125	LV.A-60-14-AS-SST-M8x68	60	M8	101	104	68	33	24	14	14	14000	75	94
323221	LV.A-60-14-SST-M10x43	327221	LV.A-60-14-AS-SST-M10x43	60	M10	76	79	43	33	24	14	14	14000	72	91
323225	LV.A-60-14-SST-M10x68	327225	LV.A-60-14-AS-SST-M10x68	60	M10	101	104	68	33	24	14	14	14000	85	104
323231	LV.A-60-14-SST-M10x98	327231	LV.A-60-14-AS-SST-M10x98	60	M10	131	134	98	33	24	14	14	14000	99	118
323321	LV.A-60-14-SST-M12x43	327321	LV.A-60-14-AS-SST-M12x43	60	M12	76	79	43	33	24	14	14	14000	82	101
323325	LV.A-60-14-SST-M12x68	327325	LV.A-60-14-AS-SST-M12x68	60	M12	101	104	68	33	24	14	14	14000	100	119
323331	LV.A-60-14-SST-M12x98	327331	LV.A-60-14-AS-SST-M12x98	60	M12	131	134	98	33	24	14	14	14000	122	141
323421	LV.A-60-14-SST-M14X68	327421	LV.A-60-14-AS-SST-M14X68	60	M14	101	104	68	33	24	14	14	14000	123	142
323431	LV.A-60-14-SST-M14X98	327431	LV.A-60-14-AS-SST-M14X98	60	M14	131	134	98	33	24	14	14	14000	144	163
323441	LV.A-60-14-SST-M14X148	327441	LV.A-60-14-AS-SST-M14X148	60	M14	181	184	148	33	24	14	14	14000	227	246
323521	LV.A-60-14-SST-M16x68	327521	LV.A-60-14-AS-SST-M16x68	60	M16	101	104	68	33	24	16	14	14000	145	164
323525	LV.A-60-14-SST-M16x108	327525	LV.A-60-14-AS-SST-M16x108	60	M16	141	144	108	33	24	16	14	14000	199	218
323541	LV.A-60-14-SST-M16x148	327541	LV.A-60-14-AS-SST-M16x148	60	M16	181	184	148	33	24	16	14	14000	252	271
323561	LV.A-60-14-SST-M16x168	327561	LV.A-60-14-AS-SST-M16x168	60	M16	201	204	168	33	24	16	14	14000	279	298

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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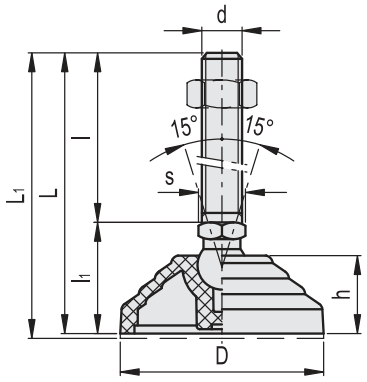
LV.A-SST | Levelling elements



LV.A-SST **LV.A-AS-SST** **STAINLESS STEEL**

Code	Description	Code	Description	D	d	L	L1#	l	l1	h	s	Articulation Ø	Max. limit static load* [N]	⚖	⚖#
323621	LV.A-60-24-SST-M16x58	327621	LV.A-60-24-AS-SST-M16x58	60	M16	101	104	58	43	24	24	24	18000	208	227
323625	LV.A-60-24-SST-M16x98	327625	LV.A-60-24-AS-SST-M16x98	60	M16	141	144	98	43	24	24	24	18000	260	279
323641	LV.A-60-24-SST-M16x138	327641	LV.A-60-24-AS-SST-M16x138	60	M16	181	184	138	43	24	24	24	18000	311	330
323661	LV.A-60-24-SST-M16x158	327661	LV.A-60-24-AS-SST-M16x158	60	M16	201	204	158	43	24	24	24	18000	339	358
323725	LV.A-60-24-SST-M20x98	327725	LV.A-60-24-AS-SST-M20x98	60	M20	141	144	98	43	24	24	24	18000	332	351
323741	LV.A-60-24-SST-M20x138	327741	LV.A-60-24-AS-SST-M20x138	60	M20	181	184	138	43	24	24	24	18000	412	431
323761	LV.A-60-24-SST-M20x158	327761	LV.A-60-24-AS-SST-M20x158	60	M20	201	204	158	43	24	24	24	18000	452	471
323781	LV.A-60-24-SST-M20x198	327781	LV.A-60-24-AS-SST-M20x198	60	M20	241	244	198	43	24	24	24	18000	537	556
323825	LV.A-60-24-SST-M24x98	327825	LV.A-60-24-AS-SST-M24x98	60	M24	141	144	98	43	24	24	24	18000	432	451
323861	LV.A-60-24-SST-M24x158	327861	LV.A-60-24-AS-SST-M24x158	60	M24	201	204	158	43	24	24	24	18000	607	626
323881	LV.A-60-24-SST-M24x198	327881	LV.A-60-24-AS-SST-M24x198	60	M24	241	244	198	43	24	24	24	18000	728	747
324005	LV.A-70-14-SST-M8x43	328005	LV.A-70-14-AS-SST-M8x43	70	M8	71	74	43	28	19	14	14	14000	61	81
324011	LV.A-70-14-SST-M8x68	328011	LV.A-70-14-AS-SST-M8x68	70	M8	96	99	68	28	19	14	14	14000	73	93
324021	LV.A-70-14-SST-M10x43	328021	LV.A-70-14-AS-SST-M10x43	70	M10	71	74	43	28	19	14	14	14000	70	90
324025	LV.A-70-14-SST-M10x68	328025	LV.A-70-14-AS-SST-M10x68	70	M10	96	99	68	28	19	14	14	14000	84	103
324031	LV.A-70-14-SST-M10x98	328031	LV.A-70-14-AS-SST-M10x98	70	M10	126	129	98	28	19	14	14	14000	97	117
324061	LV.A-70-14-SST-M12x43	328061	LV.A-70-14-AS-SST-M12x43	70	M12	71	74	43	28	19	14	14	14000	80	100
324065	LV.A-70-14-SST-M12x68	328065	LV.A-70-14-AS-SST-M12x68	70	M12	96	99	68	28	19	14	14	14000	98	118
324071	LV.A-70-14-SST-M12x98	328071	LV.A-70-14-AS-SST-M12x98	70	M12	126	129	98	28	19	14	14	14000	120	140
324075	LV.A-70-14-SST-M14X68	328075	LV.A-70-14-AS-SST-M14X68	70	M14	96	99	68	28	19	14	14	14000	121	141
324081	LV.A-70-14-SST-M14X98	328081	LV.A-70-14-AS-SST-M14X98	70	M14	126	129	98	28	19	14	14	14000	142	162
324085	LV.A-70-14-SST-M14X148	328085	LV.A-70-14-AS-SST-M14X148	70	M14	176	179	148	28	19	14	14	14000	225	245
324101	LV.A-70-14-SST-M16x68	328101	LV.A-70-14-AS-SST-M16x68	70	M16	96	99	68	28	19	16	14	14000	143	163
324105	LV.A-70-14-SST-M16x108	328105	LV.A-70-14-AS-SST-M16x108	70	M16	136	139	108	28	19	16	14	14000	197	217
324111	LV.A-70-14-SST-M16x148	328111	LV.A-70-14-AS-SST-M16x148	70	M16	176	179	148	28	19	16	14	14000	250	270
324115	LV.A-70-14-SST-M16x168	328115	LV.A-70-14-AS-SST-M16x168	70	M16	196	199	168	28	19	16	14	14000	277	297
324121	LV.A-80-14-SST-M8x43	328121	LV.A-80-14-AS-SST-M8x43	80	M8	76	79	43	33	24	14	14	16000	84	110
324125	LV.A-80-14-SST-M8x68	328125	LV.A-80-14-AS-SST-M8x68	80	M8	101	104	68	33	24	14	14	16000	96	122
324221	LV.A-80-14-SST-M10x43	328221	LV.A-80-14-AS-SST-M10x43	80	M10	76	79	43	33	24	14	14	16000	93	119
324225	LV.A-80-14-SST-M10x68	328225	LV.A-80-14-AS-SST-M10x68	80	M10	101	104	68	33	24	14	14	16000	106	132
324231	LV.A-80-14-SST-M10x98	328231	LV.A-80-14-AS-SST-M10x98	80	M10	131	134	98	33	24	14	14	16000	120	146
324321	LV.A-80-14-SST-M12x43	328321	LV.A-80-14-AS-SST-M12x43	80	M12	76	79	43	33	24	14	14	16000	103	129
324325	LV.A-80-14-SST-M12x68	328325	LV.A-80-14-AS-SST-M12x68	80	M12	101	104	68	33	24	14	14	16000	121	147
324331	LV.A-80-14-SST-M12x98	328331	LV.A-80-14-AS-SST-M12x98	80	M12	131	134	98	33	24	14	14	16000	143	169
324421	LV.A-80-14-SST-M14X68	328421	LV.A-80-14-AS-SST-M14X68	80	M14	101	104	68	33	24	14	14	16000	144	170
324431	LV.A-80-14-SST-M14X98	328431	LV.A-80-14-AS-SST-M14X98	80	M14	131	134	98	33	24	14	14	16000	165	191
324441	LV.A-80-14-SST-M14X148	328441	LV.A-80-14-AS-SST-M14X148	80	M14	181	184	148	33	24	14	14	16000	248	274
324521	LV.A-80-14-SST-M16x68	328521	LV.A-80-14-AS-SST-M16x68	80	M16	101	104	68	33	24	16	14	16000	166	192
324525	LV.A-80-14-SST-M16x108	328525	LV.A-80-14-AS-SST-M16x108	80	M16	141	144	108	33	24	16	14	16000	220	246
324541	LV.A-80-14-SST-M16x148	328541	LV.A-80-14-AS-SST-M16x148	80	M16	181	184	148	33	24	16	14	16000	273	299
324561	LV.A-80-14-SST-M16x168	328561	LV.A-80-14-AS-SST-M16x168	80	M16	201	204	168	33	24	16	14	16000	300	326

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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LV.A-SST | Levelling elements

LV.A-SST **LV.A-AS-SST** **STAINLESS STEEL**

Code	Description	Code	Description	D	d	L	L1#	l	l1	h	s	Articulation Ø	Max. limit static load* [N]	⚖	⚖#
324621	LV.A-80-24-SST-M16x58	328621	LV.A-80-24-AS-SST-M16x58	80	M16	101	104	58	43	24	24	24	18000	228	254
324625	LV.A-80-24-SST-M16x98	328625	LV.A-80-24-AS-SST-M16x98	80	M16	141	144	98	43	24	24	24	18000	280	306
324641	LV.A-80-24-SST-M16x138	328641	LV.A-80-24-AS-SST-M16x138	80	M16	181	184	138	43	24	24	24	18000	331	357
324661	LV.A-80-24-SST-M16x158	328661	LV.A-80-24-AS-SST-M16x158	80	M16	201	204	158	43	24	24	24	18000	359	385
324725	LV.A-80-24-SST-M20x98	328725	LV.A-80-24-AS-SST-M20x98	80	M20	141	144	98	43	24	24	24	18000	352	378
324741	LV.A-80-24-SST-M20x138	328741	LV.A-80-24-AS-SST-M20x138	80	M20	181	184	138	43	24	24	24	18000	432	458
324761	LV.A-80-24-SST-M20x158	328761	LV.A-80-24-AS-SST-M20x158	80	M20	201	204	158	43	24	24	24	18000	472	498
324781	LV.A-80-24-SST-M20x198	328781	LV.A-80-24-AS-SST-M20x198	80	M20	241	244	198	43	24	24	24	18000	577	583
324825	LV.A-80-24-SST-M24x98	328825	LV.A-80-24-AS-SST-M24x98	80	M24	141	144	98	43	24	24	24	18000	452	478
324861	LV.A-80-24-SST-M24x158	328861	LV.A-80-24-AS-SST-M24x158	80	M24	201	204	158	43	24	24	24	18000	627	653
324881	LV.A-80-24-SST-M24x198	328881	LV.A-80-24-AS-SST-M24x198	80	M24	241	244	198	43	24	24	24	18000	748	774
325451	LV.A-100-14-SST-M8x43	329451	LV.A-100-14-AS-SST-M8x43	100	M8	76	79	43	33	24	14	14	18000	91	146
325453	LV.A-100-14-SST-M8x68	329453	LV.A-100-14-AS-SST-M8x68	100	M8	101	104	68	33	24	14	14	18000	103	158
325461	LV.A-100-14-SST-M10x43	329461	LV.A-100-14-AS-SST-M10x43	100	M10	76	79	43	33	24	14	14	18000	100	155
325463	LV.A-100-14-SST-M10x68	329463	LV.A-100-14-AS-SST-M10x68	100	M10	101	104	68	33	24	14	14	18000	112	167
325465	LV.A-100-14-SST-M10x98	329465	LV.A-100-14-AS-SST-M10x98	100	M10	131	134	98	33	24	14	14	18000	126	181
325471	LV.A-100-14-SST-M12x43	329471	LV.A-100-14-AS-SST-M12x43	100	M12	76	79	43	33	24	14	14	18000	110	165
325473	LV.A-100-14-SST-M12x68	329473	LV.A-100-14-AS-SST-M12x68	100	M12	101	104	68	33	24	14	14	18000	127	182
325475	LV.A-100-14-SST-M12x98	329475	LV.A-100-14-AS-SST-M12x98	100	M12	131	134	98	33	24	14	14	18000	148	203
325477	LV.A-100-14-SST-M14X68	329477	LV.A-100-14-AS-SST-M14X68	100	M14	101	104	68	33	24	14	14	18000	149	204
325479	LV.A-100-14-SST-M14X98	329479	LV.A-100-14-AS-SST-M14X98	100	M14	131	134	98	33	24	14	14	18000	170	225
325480	LV.A-100-14-SST-M14X148	329480	LV.A-100-14-AS-SST-M14X148	100	M14	181	184	148	33	24	14	14	18000	253	308
325481	LV.A-100-14-SST-M16x68	329481	LV.A-100-14-AS-SST-M16x68	100	M16	101	104	68	33	24	16	14	18000	171	226
325483	LV.A-100-14-SST-M16x108	329483	LV.A-100-14-AS-SST-M16x108	100	M16	141	144	108	33	24	16	14	18000	223	278
325485	LV.A-100-14-SST-M16x148	329485	LV.A-100-14-AS-SST-M16x148	100	M16	181	184	148	33	24	16	14	18000	275	330
325487	LV.A-100-14-SST-M16x168	329487	LV.A-100-14-AS-SST-M16x168	100	M16	201	204	168	33	24	16	14	18000	301	356
325521	LV.A-100-24-SST-M16x58	329521	LV.A-100-24-AS-SST-M16x58	100	M16	101	104	58	43	24	24	24	25000	254	308
325525	LV.A-100-24-SST-M16x98	329525	LV.A-100-24-AS-SST-M16x98	100	M16	141	144	98	43	24	24	24	25000	357	411
325541	LV.A-100-24-SST-M16x138	329541	LV.A-100-24-AS-SST-M16x138	100	M16	181	184	138	43	24	24	24	25000	357	411
325561	LV.A-100-24-SST-M16x158	329561	LV.A-100-24-AS-SST-M16x158	100	M16	201	204	158	43	24	24	24	25000	385	439
325625	LV.A-100-24-SST-M20x98	329625	LV.A-100-24-AS-SST-M20x98	100	M20	141	144	98	43	24	24	24	25000	378	432
325641	LV.A-100-24-SST-M20x138	329641	LV.A-100-24-AS-SST-M20x138	100	M20	181	184	138	43	24	24	24	25000	458	512
325661	LV.A-100-24-SST-M20x158	329661	LV.A-100-24-AS-SST-M20x158	100	M20	201	204	158	43	24	24	24	25000	498	552
325681	LV.A-100-24-SST-M20x198	329681	LV.A-100-24-AS-SST-M20x198	100	M20	241	244	198	43	24	24	24	25000	583	637
325725	LV.A-100-24-SST-M24x98	329725	LV.A-100-24-AS-SST-M24x98	100	M24	141	144	98	43	24	24	24	25000	478	532
325761	LV.A-100-24-SST-M24x158	329761	LV.A-100-24-AS-SST-M24x158	100	M24	201	204	158	43	24	24	24	25000	653	707
325781	LV.A-100-24-SST-M24x198	329781	LV.A-100-24-AS-SST-M24x198	100	M24	241	244	198	43	24	24	24	25000	774	828
326521	LV.A-125-24-SST-M16x58	330221	LV.A-125-24-AS-SST-M16x58	125	M16	125	128	58	67	46	24	24	28000	389	515
326525	LV.A-125-24-SST-M16x98	330225	LV.A-125-24-AS-SST-M16x98	125	M16	165	168	98	67	46	24	24	28000	441	567
326541	LV.A-125-24-SST-M16x138	330241	LV.A-125-24-AS-SST-M16x138	125	M16	205	208	138	67	46	24	24	28000	492	618
326561	LV.A-125-24-SST-M16x158	330261	LV.A-125-24-AS-SST-M16x158	125	M16	225	228	158	67	46	24	24	28000	520	646
326625	LV.A-125-24-SST-M20x98	330325	LV.A-125-24-AS-SST-M20x98	125	M20	165	168	98	67	46	24	24	28000	513	639
326641	LV.A-125-24-SST-M20x138	330341	LV.A-125-24-AS-SST-M20x138	125	M20	205	208	138	67	46	24	24	28000	633	759
326661	LV.A-125-24-SST-M20x158	330361	LV.A-125-24-AS-SST-M20x158	125	M20	225	228	158	67	46	24	24	28000	633	759
326681	LV.A-125-24-SST-M20x198	330381	LV.A-125-24-AS-SST-M20x198	125	M20	265	268	198	67	46	24	24	28000	718	844
326725	LV.A-125-24-SST-M24x98	330425	LV.A-125-24-AS-SST-M24x98	125	M24	165	168	98	67	46	24	24	28000	613	739
326761	LV.A-125-24-SST-M24x158	330461	LV.A-125-24-AS-SST-M24x158	125	M24	225	228	158	67	46	24	24	28000	788	914
326781	LV.A-125-24-SST-M24x198	330481	LV.A-125-24-AS-SST-M24x198	125	M24	265	268	198	67	46	24	24	28000	909	1035

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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LV.A-ESD-C

Levelling elements

ESD conductive technopolymer base, steel stem

BASE

Glass-fibre reinforced polyamide based (PA) special conductive technopolymer, black colour, matte finish.
Surface resistivity = 10^3 Ω (ASTM D257 measuring method).
Volume resistivity = 10^3 Ωcm (ASTM D257 measuring method).

ARTICULATED STEM

Threaded zinc-plated steel with regulation hexagon.

STANDARD EXECUTIONS

- **LV.A-ESD-C**: without no-slip disk.
- **LV.A-AS-ESD-C**: with NBR conductive rubber, hardness 70 Shore A, supplied assembled.

Surface resistivity = 10^3 Ω (ASTM D991 measuring method).
Volume resistivity = 10^3 Ωcm (ASTM D991 measuring method).

FEATURES AND APPLICATIONS

The special conductive technopolymer (ESD-C Electrostatic Discharge Conductive) prevents the accumulation of electrostatic charge.
The particular assembling system of the no-slip disk to the base assures a perfect anchoring, preventing separation even in case of impact during transport or of adhesion (sticking) to the floor (see No-slip disk on page 1223).
The bases are suitable for "ESD PROTECTED AREA" (EPA) where components, which are susceptible to electrostatic discharges, are handled.
The (ESD-C) indelibly printed mark on the surface of the levelling elements bases identifies the particular conductive features of the material according to EN 100015/1 and IEC 61340-5-1.

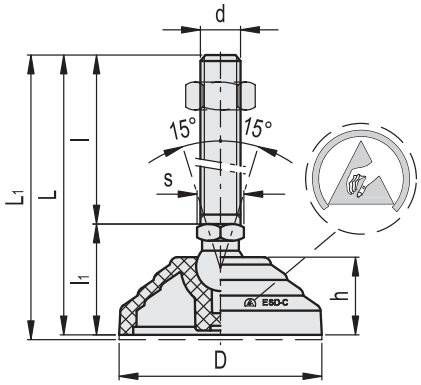
ORDER INFORMATION

The levelling elements are supplied unassembled to make carriage and storage easier. The components (base and stem) are supplied in separate packing: less volume taken and better protection from scratches and dirt.
To order bases and stems separately, see:
table of the possible combinations Bases/Stems on page 1229.

ACCESSORIES ON REQUEST

Zinc-plated steel nut (see Nuts NT. on page 1223).

ELESA Original design



LV.A-ESD-C **LV.A-AS-ESD-C**

Code	Description	Code	Description	D	d	L	L1#	l	l1	h	s	Articulation Ø	Max. limit static load* [N]	⚖	⚖ #
303121-ESD	LV.A-60-14-M8x43-ESD-C	307121-ESD	LV.A-60-14-AS-M8x43-ESD-C	60	M8	76	79	43	33	24	14	14	14000	62	81
303125-ESD	LV.A-60-14-M8x68-ESD-C	307125-ESD	LV.A-60-14-AS-M8x68-ESD-C	60	M8	101	104	68	33	24	14	14	14000	74	93
303221-ESD	LV.A-60-14-M10x43-ESD-C	307221-ESD	LV.A-60-14-AS-M10x43-ESD-C	60	M10	76	79	43	33	24	14	14	14000	71	90
303225-ESD	LV.A-60-14-M10x68-ESD-C	307225-ESD	LV.A-60-14-AS-M10x68-ESD-C	60	M10	101	104	68	33	24	14	14	14000	83	102
303231-ESD	LV.A-60-14-M10x98-ESD-C	307231-ESD	LV.A-60-14-AS-M10x98-ESD-C	60	M10	131	134	98	33	24	14	14	14000	97	116
303321-ESD	LV.A-60-14-M12x43-ESD-C	307321-ESD	LV.A-60-14-AS-M12x43-ESD-C	60	M12	76	79	43	33	24	14	14	14000	81	100
303325-ESD	LV.A-60-14-M12x68-ESD-C	307325-ESD	LV.A-60-14-AS-M12x68-ESD-C	60	M12	101	104	68	33	24	14	14	14000	98	117
303331-ESD	LV.A-60-14-M12x98-ESD-C	307331-ESD	LV.A-60-14-AS-M12x98-ESD-C	60	M12	131	134	98	33	24	14	14	14000	119	138
303421-ESD	LV.A-60-14-M14X68-ESD-C	307421-ESD	LV.A-60-14-AS-M14X68-ESD-C	60	M14	101	104	68	33	24	14	14	14000	120	139
303431-ESD	LV.A-60-14-M14X98-ESD-C	307431-ESD	LV.A-60-14-AS-M14X98-ESD-C	60	M14	131	134	98	33	24	14	14	14000	141	160
303441-ESD	LV.A-60-14-M14X148-ESD-C	307441-ESD	LV.A-60-14-AS-M14X148-ESD-C	60	M14	181	184	148	33	24	14	14	14000	224	243
303521-ESD	LV.A-60-14-M16x68-ESD-C	307521-ESD	LV.A-60-14-AS-M16x68-ESD-C	60	M16	101	104	68	33	24	16	14	14000	142	161
303525-ESD	LV.A-60-14-M16x108-ESD-C	307525-ESD	LV.A-60-14-AS-M16x108-ESD-C	60	M16	141	144	108	33	24	16	14	14000	194	213
303541-ESD	LV.A-60-14-M16x148-ESD-C	307541-ESD	LV.A-60-14-AS-M16x148-ESD-C	60	M16	181	184	148	33	24	16	14	14000	246	265
303561-ESD	LV.A-60-14-M16x168-ESD-C	307561-ESD	LV.A-60-14-AS-M16x168-ESD-C	60	M16	201	204	168	33	24	16	14	14000	272	291

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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LV.A-ESD-C **LV.A-AS-ESD-C**

Code	Description	Code	Description	D	d	L	L1#	l	l1	h	s	Articulation Ø	Max. limit static load* [N]	⚖	⚖ #
303621-ESD	LV.A-60-24-M16x58-ESD-C	307621-ESD	LV.A-60-24-AS-M16x58-ESD-C	60	M16	101	104	58	43	24	24	24	18000	205	224
303625-ESD	LV.A-60-24-M16x98-ESD-C	307625-ESD	LV.A-60-24-AS-M16x98-ESD-C	60	M16	141	144	98	43	24	24	24	18000	256	275
303641-ESD	LV.A-60-24-M16x138-ESD-C	307641-ESD	LV.A-60-24-AS-M16x138-ESD-C	60	M16	181	184	138	43	24	24	24	18000	306	325
303661-ESD	LV.A-60-24-M16x158-ESD-C	307661-ESD	LV.A-60-24-AS-M16x158-ESD-C	60	M16	201	204	158	43	24	24	24	18000	333	352
303725-ESD	LV.A-60-24-M20x98-ESD-C	307725-ESD	LV.A-60-24-AS-M20x98-ESD-C	60	M20	141	144	98	43	24	24	24	18000	326	345
303741-ESD	LV.A-60-24-M20x138-ESD-C	307741-ESD	LV.A-60-24-AS-M20x138-ESD-C	60	M20	181	184	138	43	24	24	24	18000	405	424
303761-ESD	LV.A-60-24-M20x158-ESD-C	307761-ESD	LV.A-60-24-AS-M20x158-ESD-C	60	M20	201	204	158	43	24	24	24	18000	444	463
303781-ESD	LV.A-60-24-M20x198-ESD-C	307781-ESD	LV.A-60-24-AS-M20x198-ESD-C	60	M20	241	244	198	43	24	24	24	18000	527	546
303825-ESD	LV.A-60-24-M24x98-ESD-C	307825-ESD	LV.A-60-24-AS-M24x98-ESD-C	60	M24	141	144	98	43	24	24	24	18000	424	443
303861-ESD	LV.A-60-24-M24x158-ESD-C	307861-ESD	LV.A-60-24-AS-M24x158-ESD-C	60	M24	201	204	158	43	24	24	24	18000	596	615
303881-ESD	LV.A-60-24-M24x198-ESD-C	307881-ESD	LV.A-60-24-AS-M24x198-ESD-C	60	M24	241	244	198	43	24	24	24	18000	714	733
304005-ESD	LV.A-70-14-M8x43-ESD-C	308005-ESD	LV.A-70-14-AS-M8x43-ESD-C	70	M8	71	74	43	28	19	14	14	14000	60	80
304011-ESD	LV.A-70-14-M8x68-ESD-C	308011-ESD	LV.A-70-14-AS-M8x68-ESD-C	70	M8	96	99	68	28	19	14	14	14000	72	92
304021-ESD	LV.A-70-14-M10x43-ESD-C	308021-ESD	LV.A-70-14-AS-M10x43-ESD-C	70	M10	71	74	43	28	19	14	14	14000	69	89
304025-ESD	LV.A-70-14-M10x68-ESD-C	308025-ESD	LV.A-70-14-AS-M10x68-ESD-C	70	M10	96	99	68	28	19	14	14	14000	81	101
304031-ESD	LV.A-70-14-M10x98-ESD-C	308031-ESD	LV.A-70-14-AS-M10x98-ESD-C	70	M10	126	129	98	28	19	14	14	14000	95	115
304061-ESD	LV.A-70-14-M12x43-ESD-C	308061-ESD	LV.A-70-14-AS-M12x43-ESD-C	70	M12	71	74	43	28	19	14	14	14000	79	99
304065-ESD	LV.A-70-14-M12x68-ESD-C	308065-ESD	LV.A-70-14-AS-M12x68-ESD-C	70	M12	96	99	68	28	19	14	14	14000	96	116
304071-ESD	LV.A-70-14-M12x98-ESD-C	308071-ESD	LV.A-70-14-AS-M12x98-ESD-C	70	M12	126	129	98	28	19	14	14	14000	117	137
304075-ESD	LV.A-70-14-M14X68-ESD-C	308075-ESD	LV.A-70-14-AS-M14X68-ESD-C	70	M14	96	99	68	28	19	14	14	14000	118	138
304081-ESD	LV.A-70-14-M14X98-ESD-C	308081-ESD	LV.A-70-14-AS-M14X98-ESD-C	70	M14	126	129	98	28	19	14	14	14000	139	159
304085-ESD	LV.A-70-14-M14X148-ESD-C	308085-ESD	LV.A-70-14-AS-M14X148-ESD-C	70	M14	176	179	148	28	19	14	14	14000	222	242
304101-ESD	LV.A-70-14-M16x68-ESD-C	308101-ESD	LV.A-70-14-AS-M16x68-ESD-C	70	M16	96	99	68	28	19	16	14	14000	140	160
304105-ESD	LV.A-70-14-M16x108-ESD-C	308105-ESD	LV.A-70-14-AS-M16x108-ESD-C	70	M16	136	139	108	28	19	16	14	14000	192	212
304111-ESD	LV.A-70-14-M16x148-ESD-C	308111-ESD	LV.A-70-14-AS-M16x148-ESD-C	70	M16	176	179	148	28	19	16	14	14000	244	264
304115-ESD	LV.A-70-14-M16x168-ESD-C	308115-ESD	LV.A-70-14-AS-M16x168-ESD-C	70	M16	196	199	168	28	19	16	14	14000	270	290
304121-ESD	LV.A-80-14-M8x43-ESD-C	308121-ESD	LV.A-80-14-AS-M8x43-ESD-C	80	M8	76	79	43	33	24	14	14	16000	83	109
304125-ESD	LV.A-80-14-M8x68-ESD-C	308125-ESD	LV.A-80-14-AS-M8x68-ESD-C	80	M8	101	104	68	33	24	14	14	16000	95	121
304221-ESD	LV.A-80-14-M10x43-ESD-C	308221-ESD	LV.A-80-14-AS-M10x43-ESD-C	80	M10	76	79	43	33	24	14	14	16000	92	118
304225-ESD	LV.A-80-14-M10x68-ESD-C	308225-ESD	LV.A-80-14-AS-M10x68-ESD-C	80	M10	101	104	68	33	24	14	14	16000	104	130
304231-ESD	LV.A-80-14-M10x98-ESD-C	308231-ESD	LV.A-80-14-AS-M10x98-ESD-C	80	M10	131	134	98	33	24	14	14	16000	118	144
304321-ESD	LV.A-80-14-M12x43-ESD-C	308321-ESD	LV.A-80-14-AS-M12x43-ESD-C	80	M12	76	79	43	33	24	14	14	16000	102	128
304325-ESD	LV.A-80-14-M12x68-ESD-C	308325-ESD	LV.A-80-14-AS-M12x68-ESD-C	80	M12	101	104	68	33	24	14	14	16000	119	145
304331-ESD	LV.A-80-14-M12x98-ESD-C	308331-ESD	LV.A-80-14-AS-M12x98-ESD-C	80	M12	131	134	98	33	24	14	14	16000	140	166
304421-ESD	LV.A-80-14-M14X68-ESD-C	308421-ESD	LV.A-80-14-AS-M14X68-ESD-C	80	M14	101	104	68	33	24	14	14	16000	141	167
304431-ESD	LV.A-80-14-M14X98-ESD-C	308431-ESD	LV.A-80-14-AS-M14X98-ESD-C	80	M14	131	134	98	33	24	14	14	16000	162	188
304441-ESD	LV.A-80-14-M14X148-ESD-C	308441-ESD	LV.A-80-14-AS-M14X148-ESD-C	80	M14	181	184	148	33	24	14	14	16000	245	271
304521-ESD	LV.A-80-14-M16x68-ESD-C	308521-ESD	LV.A-80-14-AS-M16x68-ESD-C	80	M16	101	104	68	33	24	16	14	16000	163	189
304525-ESD	LV.A-80-14-M16x108-ESD-C	308525-ESD	LV.A-80-14-AS-M16x108-ESD-C	80	M16	141	144	108	33	24	16	14	16000	215	241
304541-ESD	LV.A-80-14-M16x148-ESD-C	308541-ESD	LV.A-80-14-AS-M16x148-ESD-C	80	M16	181	184	148	33	24	16	14	16000	267	293
304561-ESD	LV.A-80-14-M16x168-ESD-C	308561-ESD	LV.A-80-14-AS-M16x168-ESD-C	80	M16	201	204	168	33	24	16	14	16000	293	319
304621-ESD	LV.A-80-24-M16x58-ESD-C	308621-ESD	LV.A-80-24-AS-M16x58-ESD-C	80	M16	101	104	58	43	24	24	24	18000	225	251
304625-ESD	LV.A-80-24-M16x98-ESD-C	308625-ESD	LV.A-80-24-AS-M16x98-ESD-C	80	M16	141	144	98	43	24	24	24	18000	276	302
304641-ESD	LV.A-80-24-M16x138-ESD-C	308641-ESD	LV.A-80-24-AS-M16x138-ESD-C	80	M16	181	184	138	43	24	24	24	18000	326	352
304661-ESD	LV.A-80-24-M16x158-ESD-C	308661-ESD	LV.A-80-24-AS-M16x158-ESD-C	80	M16	201	204	158	43	24	24	24	18000	353	379
304725-ESD	LV.A-80-24-M20x98-ESD-C	308725-ESD	LV.A-80-24-AS-M20x98-ESD-C	80	M20	141	144	98	43	24	24	24	18000	346	372
304741-ESD	LV.A-80-24-M20x138-ESD-C	308741-ESD	LV.A-80-24-AS-M20x138-ESD-C	80	M20	181	184	138	43	24	24	24	18000	425	451
304761-ESD	LV.A-80-24-M20x158-ESD-C	308761-ESD	LV.A-80-24-AS-M20x158-ESD-C	80	M20	201	204	158	43	24	24	24	18000	464	490
304781-ESD	LV.A-80-24-M20x198-ESD-C	308781-ESD	LV.A-80-24-AS-M20x198-ESD-C	80	M20	241	244	198	43	24	24	24	18000	547	573
304825-ESD	LV.A-80-24-M24x98-ESD-C	308825-ESD	LV.A-80-24-AS-M24x98-ESD-C	80	M24	141	144	98	43	24	24	24	18000	444	470
304861-ESD	LV.A-80-24-M24x158-ESD-C	308861-ESD	LV.A-80-24-AS-M24x158-ESD-C	80	M24	201	204	158	43	24	24	24	18000	616	642
304881-ESD	LV.A-80-24-M24x198-ESD-C	308881-ESD	LV.A-80-24-AS-M24x198-ESD-C	80	M24	241	244	198	43	24	24	24	18000	734	760

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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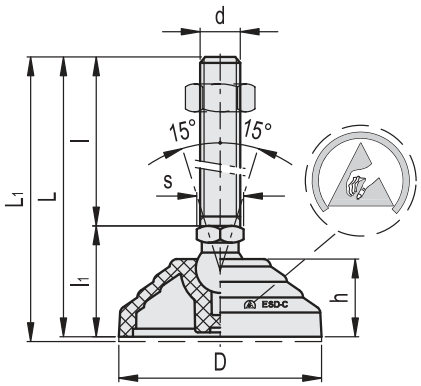
LV.A-ESD-C | Levelling elements



LV.A-ESD-C **LV.A-AS-ESD-C**

Code	Description	Code	Description	D	d	L	L1#	l	l1	h	s	Articulation Ø	Max. limit static load* [N]	⚖	⚖ #
305451-ESD	LV.A-100-14-M8x43-ESD-C	309451-ESD	LV.A-100-14-AS-M8x43-ESD-C	100	M8	76	79	43	33	24	14	14	18000	91	146
305453-ESD	LV.A-100-14-M8x68-ESD-C	309453-ESD	LV.A-100-14-AS-M8x68-ESD-C	100	M8	101	104	68	33	24	14	14	18000	103	158
305461-ESD	LV.A-100-14-M10x43-ESD-C	309461-ESD	LV.A-100-14-AS-M10x43-ESD-C	100	M10	76	79	43	33	24	14	14	18000	100	155
305463-ESD	LV.A-100-14-M10x68-ESD-C	309463-ESD	LV.A-100-14-AS-M10x68-ESD-C	100	M10	101	104	68	33	24	14	14	18000	112	167
305465-ESD	LV.A-100-14-M10x98-ESD-C	309465-ESD	LV.A-100-14-AS-M10x98-ESD-C	100	M10	131	134	98	33	24	14	14	18000	126	181
305471-ESD	LV.A-100-14-M12x43-ESD-C	309471-ESD	LV.A-100-14-AS-M12x43-ESD-C	100	M12	76	79	43	33	24	14	14	18000	110	165
305473-ESD	LV.A-100-14-M12x68-ESD-C	309473-ESD	LV.A-100-14-AS-M12x68-ESD-C	100	M12	101	104	68	33	24	14	14	18000	127	182
305475-ESD	LV.A-100-14-M12x98-ESD-C	309475-ESD	LV.A-100-14-AS-M12x98-ESD-C	100	M12	131	134	98	33	24	14	14	18000	148	203
305477-ESD	LV.A-100-14-M14X68-ESD-C	309477-ESD	LV.A-100-14-AS-M14X68-ESD-C	100	M14	101	104	68	33	24	14	14	18000	149	204
305479-ESD	LV.A-100-14-M14X98-ESD-C	309479-ESD	LV.A-100-14-AS-M14X98-ESD-C	100	M14	131	134	98	33	24	14	14	18000	170	225
305480-ESD	LV.A-100-14-M14X148-ESD-C	309480-ESD	LV.A-100-14-AS-M14X148-ESD-C	100	M14	181	184	148	33	24	14	14	18000	253	308
305481-ESD	LV.A-100-14-M16x68-ESD-C	309481-ESD	LV.A-100-14-AS-M16x68-ESD-C	100	M16	101	104	68	33	24	16	14	18000	171	226
305483-ESD	LV.A-100-14-M16x108-ESD-C	309483-ESD	LV.A-100-14-AS-M16x108-ESD-C	100	M16	141	144	108	33	24	16	14	18000	223	278
305485-ESD	LV.A-100-14-M16x148-ESD-C	309485-ESD	LV.A-100-14-AS-M16x148-ESD-C	100	M16	181	184	148	33	24	16	14	18000	275	330
305487-ESD	LV.A-100-14-M16x168-ESD-C	309487-ESD	LV.A-100-14-AS-M16x168-ESD-C	100	M16	201	204	168	33	24	16	14	18000	301	356
305521-ESD	LV.A-100-24-M16x58-ESD-C	309521-ESD	LV.A-100-24-AS-M16x58-ESD-C	100	M16	101	104	58	43	24	24	24	25000	251	305
305525-ESD	LV.A-100-24-M16x98-ESD-C	309525-ESD	LV.A-100-24-AS-M16x98-ESD-C	100	M16	141	144	98	43	24	24	24	25000	302	356
305541-ESD	LV.A-100-24-M16x138-ESD-C	309541-ESD	LV.A-100-24-AS-M16x138-ESD-C	100	M16	181	184	138	43	24	24	24	25000	352	406
305561-ESD	LV.A-100-24-M16x158-ESD-C	309561-ESD	LV.A-100-24-AS-M16x158-ESD-C	100	M16	201	204	158	43	24	24	24	25000	379	433
305625-ESD	LV.A-100-24-M20x98-ESD-C	309625-ESD	LV.A-100-24-AS-M20x98-ESD-C	100	M20	141	144	98	43	24	24	24	25000	372	426
305641-ESD	LV.A-100-24-M20x138-ESD-C	309641-ESD	LV.A-100-24-AS-M20x138-ESD-C	100	M20	181	184	138	43	24	24	24	25000	451	505
305661-ESD	LV.A-100-24-M20x158-ESD-C	309661-ESD	LV.A-100-24-AS-M20x158-ESD-C	100	M20	201	204	158	43	24	24	24	25000	490	544
305681-ESD	LV.A-100-24-M20x198-ESD-C	309681-ESD	LV.A-100-24-AS-M20x198-ESD-C	100	M20	241	244	198	43	24	24	24	25000	573	627
305725-ESD	LV.A-100-24-M24x98-ESD-C	309725-ESD	LV.A-100-24-AS-M24x98-ESD-C	100	M24	141	144	98	43	24	24	24	25000	470	524
305761-ESD	LV.A-100-24-M24x158-ESD-C	309761-ESD	LV.A-100-24-AS-M24x158-ESD-C	100	M24	201	204	158	43	24	24	24	25000	642	696
305781-ESD	LV.A-100-24-M24x198-ESD-C	309781-ESD	LV.A-100-24-AS-M24x198-ESD-C	100	M24	241	244	198	43	24	24	24	25000	760	814
306521-ESD	LV.A-125-24-M16x58-ESD-C	310221-ESD	LV.A-125-24-AS-M16x58-ESD-C	125	M16	125	128	58	67	46	24	24	28000	386	512
306525-ESD	LV.A-125-24-M16x98-ESD-C	310225-ESD	LV.A-125-24-AS-M16x98-ESD-C	125	M16	165	168	98	67	46	24	24	28000	437	563
306541-ESD	LV.A-125-24-M16x138-ESD-C	310241-ESD	LV.A-125-24-AS-M16x138-ESD-C	125	M16	205	208	138	67	46	24	24	28000	487	613
306561-ESD	LV.A-125-24-M16x158-ESD-C	310261-ESD	LV.A-125-24-AS-M16x158-ESD-C	125	M16	225	228	158	67	46	24	24	28000	514	640
306625-ESD	LV.A-125-24-M20x98-ESD-C	310325-ESD	LV.A-125-24-AS-M20x98-ESD-C	125	M20	165	168	98	67	46	24	24	28000	507	633
306641-ESD	LV.A-125-24-M20x138-ESD-C	310341-ESD	LV.A-125-24-AS-M20x138-ESD-C	125	M20	205	208	138	67	46	24	24	28000	586	712
306661-ESD	LV.A-125-24-M20x158-ESD-C	310361-ESD	LV.A-125-24-AS-M20x158-ESD-C	125	M20	225	228	158	67	46	24	24	28000	625	751
306681-ESD	LV.A-125-24-M20x198-ESD-C	310381-ESD	LV.A-125-24-AS-M20x198-ESD-C	125	M20	265	268	198	67	46	24	24	28000	708	834
306725-ESD	LV.A-125-24-M24x98-ESD-C	310425-ESD	LV.A-125-24-AS-M24x98-ESD-C	125	M24	165	168	98	67	46	24	24	28000	605	731
306761-ESD	LV.A-125-24-M24x158-ESD-C	310461-ESD	LV.A-125-24-AS-M24x158-ESD-C	125	M24	225	228	158	67	46	24	24	28000	777	903
306781-ESD	LV.A-125-24-M24x198-ESD-C	310481-ESD	LV.A-125-24-AS-M24x198-ESD-C	125	M24	265	268	198	67	46	24	24	28000	895	1021

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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LV.A-SST-ESD-C

Levelling elements

ESD conductive technopolymer base, stainless steel stem

BASE

Glass-fibre reinforced polyamide based (PA) special conductive technopolymer, black colour, matte finish.
Surface resistivity = 10^3 Ω (ASTM D257 measuring method).
Volume resistivity = 10^3 Ωcm (ASTM D257 measuring method).

ARTICULATED STEM

Threaded AISI 304 stainless steel with regulation hexagon.

STANDARD EXECUTIONS

- **LV.A-SST-ESD-C**: without no-slip disk.
- **LV.A-AS-SST-ESD-C**: with NBR conductive rubber, hardness 70 Shore A, supplied assembled.

Surface resistivity = 10^3 Ω (ASTM D257 measuring method).
Volume resistivity = 10^3 Ωcm (ASTM D257 measuring method).

FEATURES AND APPLICATIONS

The special conductive technopolymer (ESD-C Electrostatic Discharge Conductive) prevents the accumulation of electrostatic charge.
The bases are suitable for "ESD PROTECTED AREA" (EPA) where components, which are susceptible to electrostatic discharges, are handled.
The (ESD-C) indelibly printed mark on the surface of the levelling elements bases identifies the particular conductive features of the material according to EN 100015/1 and IEC 61340-5-1.
The particular assembling system of the no-slip disk to the base assures a perfect anchoring, preventing separation even in case of impact during transport or of adhesion (sticking) to the floor (see No-slip disks on page 1223).

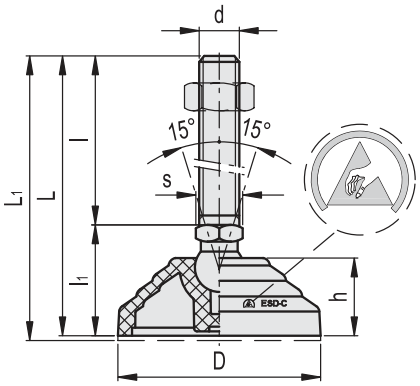
ORDER INFORMATION

The levelling elements are supplied unassembled to make carriage and storage easier. The components (base and stem) are supplied in separate packing: less volume taken and better protection from scratches and dirt.
To order bases and stems separately, see:
table of the possible combinations Bases/Stems on page 1229.

ACCESSORIES ON REQUEST

AISI 304 stainless steel nut (see Nuts NT. on page 1223).

ELESA Original design



LV.A-SST-ESD-C **LV.A-AS-SST-ESD-C** **STAINLESS STEEL**

Code	Description	Code	Description	D	d	L	L1#	l	l1	h	s	Articulation Ø	Max. limit static load* [N]		#
323121-ESD	LV.A-60-14-SST-M8x43-ESD-C	327121-ESD	LV.A-60-14-AS-SST-M8x43-ESD-C	60	M8	76	79	43	33	24	14	14	14000	63	82
323125-ESD	LV.A-60-14-SST-M8x68-ESD-C	327125-ESD	LV.A-60-14-AS-SST-M8x68-ESD-C	60	M8	101	104	68	33	24	14	14	14000	75	94
323221-ESD	LV.A-60-14-SST-M10x43-ESD-C	327221-ESD	LV.A-60-14-AS-SST-M10x43-ESD-C	60	M10	76	79	43	33	24	14	14	14000	72	91
323225-ESD	LV.A-60-14-SST-M10x68-ESD-C	327225-ESD	LV.A-60-14-AS-SST-M10x68-ESD-C	60	M10	101	104	68	33	24	14	14	14000	85	104
323231-ESD	LV.A-60-14-SST-M10x98-ESD-C	327231-ESD	LV.A-60-14-AS-SST-M10x98-ESD-C	60	M10	131	134	98	33	24	14	14	14000	99	118
323321-ESD	LV.A-60-14-SST-M12x43-ESD-C	327321-ESD	LV.A-60-14-AS-SST-M12x43-ESD-C	60	M12	76	79	43	33	24	14	14	14000	82	101
323325-ESD	LV.A-60-14-SST-M12x68-ESD-C	327325-ESD	LV.A-60-14-AS-SST-M12x68-ESD-C	60	M12	101	104	68	33	24	14	14	14000	100	119
323331-ESD	LV.A-60-14-SST-M12x98-ESD-C	327331-ESD	LV.A-60-14-AS-SST-M12x98-ESD-C	60	M12	131	134	98	33	24	14	14	14000	122	141
323421-ESD	LV.A-60-14-SST-M14X68-ESD-C	327421-ESD	LV.A-60-14-AS-SST-M14X68-ESD-C	60	M14	101	104	68	33	24	14	14	14000	123	142
323431-ESD	LV.A-60-14-SST-M14X98-ESD-C	327431-ESD	LV.A-60-14-AS-SST-M14X98-ESD-C	60	M14	131	134	98	33	24	14	14	14000	144	163
323441-ESD	LV.A-60-14-SST-M14X148-ESD-C	327441-ESD	LV.A-60-14-AS-SST-M14X148-ESD-C	60	M14	181	184	148	33	24	14	14	14000	227	246
323521-ESD	LV.A-60-14-SST-M16x68-ESD-C	327521-ESD	LV.A-60-14-AS-SST-M16x68-ESD-C	60	M16	101	104	68	33	24	16	14	14000	145	164
323525-ESD	LV.A-60-14-SST-M16x108-ESD-C	327525-ESD	LV.A-60-14-AS-SST-M16x108-ESD-C	60	M16	141	144	108	33	24	16	14	14000	199	218
323541-ESD	LV.A-60-14-SST-M16x148-ESD-C	327541-ESD	LV.A-60-14-AS-SST-M16x148-ESD-C	60	M16	181	184	148	33	24	16	14	14000	252	271
323561-ESD	LV.A-60-14-SST-M16x168-ESD-C	327561-ESD	LV.A-60-14-AS-SST-M16x168-ESD-C	60	M16	201	204	168	33	24	16	14	14000	279	298

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.
# Data with no-slip disk mounted.

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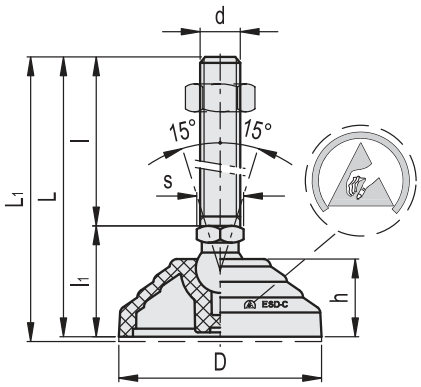
LV.A-SST-ESD-C | Levelling elements



LV.A-SST-ESD-C **LV.A-AS-SST-ESD-C** **STAINLESS STEEL**

Code	Description	Code	Description	D	d	L	L1#	l	l1	h	s	Articulation Ø	Max. limit static load* [N]	⚖	⚖#
323621-ESD	LV.A-60-24-SST-M16x58-ESD-C	327621-ESD	LV.A-60-24-AS-SST-M16x58-ESD-C	60	M16	101	104	58	43	24	24	24	18000	208	227
323625-ESD	LV.A-60-24-SST-M16x98-ESD-C	327625-ESD	LV.A-60-24-AS-SST-M16x98-ESD-C	60	M16	141	144	98	43	24	24	24	18000	260	279
323641-ESD	LV.A-60-24-SST-M16x138-ESD-C	327641-ESD	LV.A-60-24-AS-SST-M16x138-ESD-C	60	M16	181	184	138	43	24	24	24	18000	311	330
323661-ESD	LV.A-60-24-SST-M16x158-ESD-C	327661-ESD	LV.A-60-24-AS-SST-M16x158-ESD-C	60	M16	201	204	158	43	24	24	24	18000	339	358
323725-ESD	LV.A-60-24-SST-M20x98-ESD-C	327725-ESD	LV.A-60-24-AS-SST-M20x98-ESD-C	60	M20	141	144	98	43	24	24	24	18000	332	351
323741-ESD	LV.A-60-24-SST-M20x138-ESD-C	327741-ESD	LV.A-60-24-AS-SST-M20x138-ESD-C	60	M20	181	184	138	43	24	24	24	18000	412	431
323761-ESD	LV.A-60-24-SST-M20x158-ESD-C	327761-ESD	LV.A-60-24-AS-SST-M20x158-ESD-C	60	M20	201	204	158	43	24	24	24	18000	452	471
323781-ESD	LV.A-60-24-SST-M20x198-ESD-C	327781-ESD	LV.A-60-24-AS-SST-M20x198-ESD-C	60	M20	241	244	198	43	24	24	24	18000	537	556
323825-ESD	LV.A-60-24-SST-M24x98-ESD-C	327825-ESD	LV.A-60-24-AS-SST-M24x98-ESD-C	60	M24	141	144	98	43	24	24	24	18000	432	451
323861-ESD	LV.A-60-24-SST-M24x158-ESD-C	327861-ESD	LV.A-60-24-AS-SST-M24x158-ESD-C	60	M24	201	204	158	43	24	24	24	18000	607	626
323881-ESD	LV.A-60-24-SST-M24x198-ESD-C	327881-ESD	LV.A-60-24-AS-SST-M24x198-ESD-C	60	M24	241	244	198	43	24	24	24	18000	728	747
324005-ESD	LV.A-70-14-SST-M8x43-ESD-C	328005-ESD	LV.A-70-14-AS-SST-M8x43-ESD-C	70	M8	71	74	43	28	19	14	14	14000	61	81
324011-ESD	LV.A-70-14-SST-M8x68-ESD-C	328011-ESD	LV.A-70-14-AS-SST-M8x68-ESD-C	70	M8	96	99	68	28	19	14	14	14000	73	93
324021-ESD	LV.A-70-14-SST-M10x43-ESD-C	328021-ESD	LV.A-70-14-AS-SST-M10x43-ESD-C	70	M10	71	74	43	28	19	14	14	14000	70	90
324025-ESD	LV.A-70-14-SST-M10x68-ESD-C	328025-ESD	LV.A-70-14-AS-SST-M10x68-ESD-C	70	M10	96	99	68	28	19	14	14	14000	84	103
324031-ESD	LV.A-70-14-SST-M10x98-ESD-C	328031-ESD	LV.A-70-14-AS-SST-M10x98-ESD-C	70	M10	126	129	98	28	19	14	14	14000	97	117
324061-ESD	LV.A-70-14-SST-M12x43-ESD-C	328061-ESD	LV.A-70-14-AS-SST-M12x43-ESD-C	70	M12	71	74	43	28	19	14	14	14000	80	100
324065-ESD	LV.A-70-14-SST-M12x68-ESD-C	328065-ESD	LV.A-70-14-AS-SST-M12x68-ESD-C	70	M12	96	99	68	28	19	14	14	14000	98	118
324071-ESD	LV.A-70-14-SST-M12x98-ESD-C	328071-ESD	LV.A-70-14-AS-SST-M12x98-ESD-C	70	M12	126	129	98	28	19	14	14	14000	120	140
324075-ESD	LV.A-70-14-SST-M14X68-ESD-C	328075-ESD	LV.A-70-14-AS-SST-M14X68-ESD-C	70	M14	96	99	68	28	19	14	14	14000	121	141
324081-ESD	LV.A-70-14-SST-M14X98-ESD-C	328081-ESD	LV.A-70-14-AS-SST-M14X98-ESD-C	70	M14	126	129	98	28	19	14	14	14000	142	162
324085-ESD	LV.A-70-14-SST-M14X148-ESD-C	328085-ESD	LV.A-70-14-AS-SST-M14X148-ESD-C	70	M14	176	179	148	28	19	14	14	14000	225	245
324101-ESD	LV.A-70-14-SST-M16x68-ESD-C	328101-ESD	LV.A-70-14-AS-SST-M16x68-ESD-C	70	M16	96	99	68	28	19	16	14	14000	143	163
324105-ESD	LV.A-70-14-SST-M16x108-ESD-C	328105-ESD	LV.A-70-14-AS-SST-M16x108-ESD-C	70	M16	136	139	108	28	19	16	14	14000	197	217
324111-ESD	LV.A-70-14-SST-M16x148-ESD-C	328111-ESD	LV.A-70-14-AS-SST-M16x148-ESD-C	70	M16	176	179	148	28	19	16	14	14000	250	270
324115-ESD	LV.A-70-14-SST-M16x168-ESD-C	328115-ESD	LV.A-70-14-AS-SST-M16x168-ESD-C	70	M16	196	199	168	28	19	16	14	14000	277	297
324121-ESD	LV.A-80-14-SST-M8x43-ESD-C	328121-ESD	LV.A-80-14-AS-SST-M8x43-ESD-C	80	M8	76	79	43	33	24	14	14	16000	84	110
324125-ESD	LV.A-80-14-SST-M8x68-ESD-C	328125-ESD	LV.A-80-14-AS-SST-M8x68-ESD-C	80	M8	101	104	68	33	24	14	14	16000	96	122
324221-ESD	LV.A-80-14-SST-M10x43-ESD-C	328221-ESD	LV.A-80-14-AS-SST-M10x43-ESD-C	80	M10	76	79	43	33	24	14	14	16000	93	119
324225-ESD	LV.A-80-14-SST-M10x68-ESD-C	328225-ESD	LV.A-80-14-AS-SST-M10x68-ESD-C	80	M10	101	104	68	33	24	14	14	16000	106	132
324231-ESD	LV.A-80-14-SST-M10x98-ESD-C	328231-ESD	LV.A-80-14-AS-SST-M10x98-ESD-C	80	M10	131	134	98	33	24	14	14	16000	120	146
324321-ESD	LV.A-80-14-SST-M12x43-ESD-C	328321-ESD	LV.A-80-14-AS-SST-M12x43-ESD-C	80	M12	76	79	43	33	24	14	14	16000	103	129
324325-ESD	LV.A-80-14-SST-M12x68-ESD-C	328325-ESD	LV.A-80-14-AS-SST-M12x68-ESD-C	80	M12	101	104	68	33	24	14	14	16000	121	147
324331-ESD	LV.A-80-14-SST-M12x98-ESD-C	328331-ESD	LV.A-80-14-AS-SST-M12x98-ESD-C	80	M12	131	134	98	33	24	14	14	16000	143	169
324421-ESD	LV.A-80-14-SST-M14X68-ESD-C	328421-ESD	LV.A-80-14-AS-SST-M14X68-ESD-C	80	M14	101	104	68	33	24	14	14	16000	144	170
324431-ESD	LV.A-80-14-SST-M14X98-ESD-C	328431-ESD	LV.A-80-14-AS-SST-M14X98-ESD-C	80	M14	131	134	98	33	24	14	14	16000	165	191
324441-ESD	LV.A-80-14-SST-M14X148-ESD-C	328441-ESD	LV.A-80-14-AS-SST-M14X148-ESD-C	80	M14	181	184	148	33	24	14	14	16000	248	274
324521-ESD	LV.A-80-14-SST-M16x68-ESD-C	328521-ESD	LV.A-80-14-AS-SST-M16x68-ESD-C	80	M16	101	104	68	33	24	16	14	16000	166	192
324525-ESD	LV.A-80-14-SST-M16x108-ESD-C	328525-ESD	LV.A-80-14-AS-SST-M16x108-ESD-C	80	M16	141	144	108	33	24	16	14	16000	220	246
324541-ESD	LV.A-80-14-SST-M16x148-ESD-C	328541-ESD	LV.A-80-14-AS-SST-M16x148-ESD-C	80	M16	181	184	148	33	24	16	14	16000	273	299
324561-ESD	LV.A-80-14-SST-M16x168-ESD-C	328561-ESD	LV.A-80-14-AS-SST-M16x168-ESD-C	80	M16	201	204	168	33	24	16	14	16000	300	326

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.
# Data with no-slip disk mounted.

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LV.A-SST-ESD-C | Levelling elements

LV.A-SST-ESD-C **LV.A-AS-SST-ESD-C** **STAINLESS STEEL**

Code	Description	Code	Description	D	d	L	L1#	l	l1	h	s	Articulation Ø	Max. limit static load* [N]	⚖⚖	⚖⚖ #
324621-ESD	LV.A-80-24-SST-M16x58-ESD-C	328621-ESD	LV.A-80-24-AS-SST-M16x58-ESD-C	80	M16	101	104	58	43	24	24	24	18000	228	254
324625-ESD	LV.A-80-24-SST-M16x98-ESD-C	328625-ESD	LV.A-80-24-AS-SST-M16x98-ESD-C	80	M16	141	144	98	43	24	24	24	18000	280	306
324641-ESD	LV.A-80-24-SST-M16x138-ESD-C	328641-ESD	LV.A-80-24-AS-SST-M16x138-ESD-C	80	M16	181	184	138	43	24	24	24	18000	331	357
324661-ESD	LV.A-80-24-SST-M16x158-ESD-C	328661-ESD	LV.A-80-24-AS-SST-M16x158-ESD-C	80	M16	201	204	158	43	24	24	24	18000	359	385
324725-ESD	LV.A-80-24-SST-M20x98-ESD-C	328725-ESD	LV.A-80-24-AS-SST-M20x98-ESD-C	80	M20	141	144	98	43	24	24	24	18000	352	378
324741-ESD	LV.A-80-24-SST-M20x138-ESD-C	328741-ESD	LV.A-80-24-AS-SST-M20x138-ESD-C	80	M20	181	184	138	43	24	24	24	18000	432	458
324761-ESD	LV.A-80-24-SST-M20x158-ESD-C	328761-ESD	LV.A-80-24-AS-SST-M20x158-ESD-C	80	M20	201	204	158	43	24	24	24	18000	472	498
324781-ESD	LV.A-80-24-SST-M20x198-ESD-C	328781-ESD	LV.A-80-24-AS-SST-M20x198-ESD-C	80	M20	241	244	198	43	24	24	24	18000	577	583
324825-ESD	LV.A-80-24-SST-M24x98-ESD-C	328825-ESD	LV.A-80-24-AS-SST-M24x98-ESD-C	80	M24	141	144	98	43	24	24	24	18000	452	478
324861-ESD	LV.A-80-24-SST-M24x158-ESD-C	328861-ESD	LV.A-80-24-AS-SST-M24x158-ESD-C	80	M24	201	204	158	43	24	24	24	18000	627	653
324881-ESD	LV.A-80-24-SST-M24x198-ESD-C	328881-ESD	LV.A-80-24-AS-SST-M24x198-ESD-C	80	M24	241	244	198	43	24	24	24	18000	748	774
325451-ESD	LV.A-100-14-SST-M8x43-ESD-C	329451-ESD	LV.A-100-14-AS-SST-M8x43-ESD-C	100	M8	76	79	43	33	24	14	14	18000	91	146
325453-ESD	LV.A-100-14-SST-M8x68-ESD-C	329453-ESD	LV.A-100-14-AS-SST-M8x68-ESD-C	100	M8	101	104	68	33	24	14	14	18000	103	158
325461-ESD	LV.A-100-14-SST-M10x43-ESD-C	329461-ESD	LV.A-100-14-AS-SST-M10x43-ESD-C	100	M10	76	79	43	33	24	14	14	18000	100	155
325463-ESD	LV.A-100-14-SST-M10x68-ESD-C	329463-ESD	LV.A-100-14-AS-SST-M10x68-ESD-C	100	M10	101	104	68	33	24	14	14	18000	112	167
325465-ESD	LV.A-100-14-SST-M10x98-ESD-C	329465-ESD	LV.A-100-14-AS-SST-M10x98-ESD-C	100	M10	131	134	98	33	24	14	14	18000	126	181
325471-ESD	LV.A-100-14-SST-M12x43-ESD-C	329471-ESD	LV.A-100-14-AS-SST-M12x43-ESD-C	100	M12	76	79	43	33	24	14	14	18000	110	165
325473-ESD	LV.A-100-14-SST-M12x68-ESD-C	329473-ESD	LV.A-100-14-AS-SST-M12x68-ESD-C	100	M12	101	104	68	33	24	14	14	18000	127	182
325475-ESD	LV.A-100-14-SST-M12x98-ESD-C	329475-ESD	LV.A-100-14-AS-SST-M12x98-ESD-C	100	M12	131	134	98	33	24	14	14	18000	148	203
325477-ESD	LV.A-100-14-SST-M14X68-ESD-C	329477-ESD	LV.A-100-14-AS-SST-M14X68-ESD-C	100	M14	101	104	68	33	24	14	14	18000	149	204
325479-ESD	LV.A-100-14-SST-M14X98-ESD-C	329479-ESD	LV.A-100-14-AS-SST-M14X98-ESD-C	100	M14	131	134	98	33	24	14	14	18000	170	225
325480-ESD	LV.A-100-14-SST-M14X148-ESD-C	329480-ESD	LV.A-100-14-AS-SST-M14X148-ESD-C	100	M14	181	184	148	33	24	14	14	18000	253	308
325481-ESD	LV.A-100-14-SST-M16x68-ESD-C	329481-ESD	LV.A-100-14-AS-SST-M16x68-ESD-C	100	M16	101	104	68	33	24	16	14	18000	171	226
325483-ESD	LV.A-100-14-SST-M16x108-ESD-C	329483-ESD	LV.A-100-14-AS-SST-M16x108-ESD-C	100	M16	141	144	108	33	24	16	14	18000	223	278
325485-ESD	LV.A-100-14-SST-M16x148-ESD-C	329485-ESD	LV.A-100-14-AS-SST-M16x148-ESD-C	100	M16	181	184	148	33	24	16	14	18000	275	330
325487-ESD	LV.A-100-14-SST-M16x168-ESD-C	329487-ESD	LV.A-100-14-AS-SST-M16x168-ESD-C	100	M16	201	204	168	33	24	16	14	18000	301	356
325521-ESD	LV.A-100-24-SST-M16x58-ESD-C	329521-ESD	LV.A-100-24-AS-SST-M16x58-ESD-C	100	M16	101	104	58	43	24	24	24	25000	254	308
325525-ESD	LV.A-100-24-SST-M16x98-ESD-C	329525-ESD	LV.A-100-24-AS-SST-M16x98-ESD-C	100	M16	141	144	98	43	24	24	24	25000	357	411
325541-ESD	LV.A-100-24-SST-M16x138-ESD-C	329541-ESD	LV.A-100-24-AS-SST-M16x138-ESD-C	100	M16	181	184	138	43	24	24	24	25000	357	411
325561-ESD	LV.A-100-24-SST-M16x158-ESD-C	329561-ESD	LV.A-100-24-AS-SST-M16x158-ESD-C	100	M16	201	204	158	43	24	24	24	25000	385	439
325625-ESD	LV.A-100-24-SST-M20x98-ESD-C	329625-ESD	LV.A-100-24-AS-SST-M20x98-ESD-C	100	M20	141	144	98	43	24	24	24	25000	378	432
325641-ESD	LV.A-100-24-SST-M20x138-ESD-C	329641-ESD	LV.A-100-24-AS-SST-M20x138-ESD-C	100	M20	181	184	138	43	24	24	24	25000	458	512
325661-ESD	LV.A-100-24-SST-M20x158-ESD-C	329661-ESD	LV.A-100-24-AS-SST-M20x158-ESD-C	100	M20	201	204	158	43	24	24	24	25000	498	552
325681-ESD	LV.A-100-24-SST-M20x198-ESD-C	329681-ESD	LV.A-100-24-AS-SST-M20x198-ESD-C	100	M20	241	244	198	43	24	24	24	25000	583	637
325725-ESD	LV.A-100-24-SST-M24x98-ESD-C	329725-ESD	LV.A-100-24-AS-SST-M24x98-ESD-C	100	M24	141	144	98	43	24	24	24	25000	478	532
325761-ESD	LV.A-100-24-SST-M24x158-ESD-C	329761-ESD	LV.A-100-24-AS-SST-M24x158-ESD-C	100	M24	201	204	158	43	24	24	24	25000	653	707
325781-ESD	LV.A-100-24-SST-M24x198-ESD-C	329781-ESD	LV.A-100-24-AS-SST-M24x198-ESD-C	100	M24	241	244	198	43	24	24	24	25000	774	828
326521-ESD	LV.A-125-24-SST-M16x58-ESD-C	330221-ESD	LV.A-125-24-AS-SST-M16x58-ESD-C	125	M16	125	128	58	67	46	24	24	28000	389	515
326525-ESD	LV.A-125-24-SST-M16x98-ESD-C	330225-ESD	LV.A-125-24-AS-SST-M16x98-ESD-C	125	M16	165	168	98	67	46	24	24	28000	441	567
326541-ESD	LV.A-125-24-SST-M16x138-ESD-C	330241-ESD	LV.A-125-24-AS-SST-M16x138-ESD-C	125	M16	205	208	138	67	46	24	24	28000	492	618
326561-ESD	LV.A-125-24-SST-M16x158-ESD-C	330261-ESD	LV.A-125-24-AS-SST-M16x158-ESD-C	125	M16	225	228	158	67	46	24	24	28000	520	646
326625-ESD	LV.A-125-24-SST-M20x98-ESD-C	330325-ESD	LV.A-125-24-AS-SST-M20x98-ESD-C	125	M20	165	168	98	67	46	24	24	28000	513	639
326641-ESD	LV.A-125-24-SST-M20x138-ESD-C	330341-ESD	LV.A-125-24-AS-SST-M20x138-ESD-C	125	M20	205	208	138	67	46	24	24	28000	633	759
326661-ESD	LV.A-125-24-SST-M20x158-ESD-C	330361-ESD	LV.A-125-24-AS-SST-M20x158-ESD-C	125	M20	225	228	158	67	46	24	24	28000	633	759
326681-ESD	LV.A-125-24-SST-M20x198-ESD-C	330381-ESD	LV.A-125-24-AS-SST-M20x198-ESD-C	125	M20	265	268	198	67	46	24	24	28000	718	844
326725-ESD	LV.A-125-24-SST-M24x98-ESD-C	330425-ESD	LV.A-125-24-AS-SST-M24x98-ESD-C	125	M24	165	168	98	67	46	24	24	28000	613	739
326761-ESD	LV.A-125-24-SST-M24x158-ESD-C	330461-ESD	LV.A-125-24-AS-SST-M24x158-ESD-C	125	M24	225	228	158	67	46	24	24	28000	788	914
326781-ESD	LV.A-125-24-SST-M24x198-ESD-C	330481-ESD	LV.A-125-24-AS-SST-M24x198-ESD-C	125	M24	265	268	198	67	46	24	24	28000	909	1035

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.
# Data with no-slip disk mounted.

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Levelling elements

Technopolymer base, stainless steel stem

BASE
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

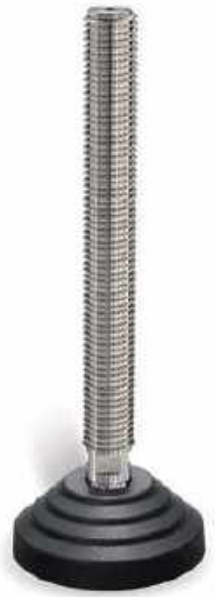
ARTICULATED STEM
Threaded AISI 304 stainless steel with adjusting square.

STANDARD EXECUTIONS
- **LVQ.A-SST**: without no-slip disk.
- **LVQ.A-AS-SST**: with NBR rubber no-slip disk, hardness 70 Shore A, supplied assembled to the base.

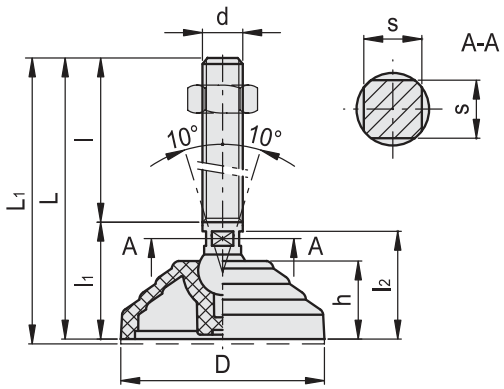
FEATURES
The special knurling under the lower lip of the base provides excellent stability and grip when using the levelling element without no-slip disk even on surfaces that are not perfectly flat.
The particular assembling system of the no-slip disk to the base assures a perfect anchoring, preventing separation even in case of impact during transport or of adhesion (sticking) to the floor (see No-slip disks on page 1223).

ORDER INFORMATION
The levelling elements are supplied unassembled to make carriage and storage easier. The components (base and stem) are supplied in separate packing: less volume taken and better protection from scratches and dirt.
To order bases and stems separately, see:
table of the possible combinations Bases/Stems on page 1229.

ACCESSORIES ON REQUEST
AISI 304 stainless steel nut (see Nuts NT. on page 1223).



ELESA Original design



LVQ.A-SST **LVQ.A-AS-SST** **STAINLESS STEEL**

Code	Description	Code	Description	D	d	L	L1#	l	l1	l2	h	s	Articulation Ø	Max. limit static load* [N]		#
323901	LVQ.A-60-14-SST-M16x68	327901	LVQ.A-60-14-AS-SST-M16x68	60	M16	102	105	68	34	32.5	24	12	14	14000	128	147
323903	LVQ.A-60-14-SST-M16x108	327903	LVQ.A-60-14-AS-SST-M16x108	60	M16	142	145	108	34	32.5	24	12	14	14000	192	211
323905	LVQ.A-60-14-SST-M16x148	327905	LVQ.A-60-14-AS-SST-M16x148	60	M16	182	185	148	34	32.5	24	12	14	14000	256	275
323907	LVQ.A-60-14-SST-M16x168	327907	LVQ.A-60-14-AS-SST-M16x168	60	M16	202	205	168	34	32.5	24	12	14	14000	288	307
323911	LVQ.A-60-14-SST-M20x110	327911	LVQ.A-60-14-AS-SST-M20x110	60	M20	149	152	110	39	36.5	24	15	14	14000	292	311
323913	LVQ.A-60-14-SST-M20x150	327913	LVQ.A-60-14-AS-SST-M20x150	60	M20	189	192	150	39	36.5	24	15	14	14000	392	411
323915	LVQ.A-60-14-SST-M20x170	327915	LVQ.A-60-14-AS-SST-M20x170	60	M20	209	212	170	39	36.5	24	15	14	14000	442	461
323917	LVQ.A-60-14-SST-M20x210	327917	LVQ.A-60-14-AS-SST-M20x210	60	M20	249	252	210	39	36.5	24	15	14	14000	541	560

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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LVQ.A-SST | Levelling elements

LVQ.A-SST **LVQ.A-AS-SST** **STAINLESS STEEL**

Code	Description	Code	Description	D	d	L	L1#	l	l1	l2	h	s	Articulation Ø	Max. limit static load* [N]	⚖⚖⚖ #	
324951	LVQ.A-70-14-SST-M16x68	328951	LVQ.A-70-14-AS-SST-M16x68	70	M16	97	100	68	29	27.5	19	12	14	14000	126	146
324953	LVQ.A-70-14-SST-M16x108	328953	LVQ.A-70-14-AS-SST-M16x108	70	M16	137	140	108	29	27.5	19	12	14	14000	190	210
324955	LVQ.A-70-14-SST-M16x148	328955	LVQ.A-70-14-AS-SST-M16x148	70	M16	177	180	148	29	27.5	19	12	14	14000	254	274
324957	LVQ.A-70-14-SST-M16x168	328957	LVQ.A-70-14-AS-SST-M16x168	70	M16	197	200	168	29	27.5	19	12	14	14000	286	306
324961	LVQ.A-70-14-SST-M20x110	328961	LVQ.A-70-14-AS-SST-M20x110	70	M20	144	147	110	34	31.5	19	15	14	14000	290	310
324963	LVQ.A-70-14-SST-M20x150	328963	LVQ.A-70-14-AS-SST-M20x150	70	M20	184	187	150	34	31.5	19	15	14	14000	390	410
324965	LVQ.A-70-14-SST-M20x170	328965	LVQ.A-70-14-AS-SST-M20x170	70	M20	204	207	170	34	31.5	19	15	14	14000	440	460
324967	LVQ.A-70-14-SST-M20x210	328967	LVQ.A-70-14-AS-SST-M20x210	70	M20	244	247	210	34	31.5	19	15	14	14000	539	559
324971	LVQ.A-70-14-SST-M24x110	328971	LVQ.A-70-14-AS-SST-M24x110	70	M24	144	147	110	34	31.5	19	18	14	14000	397	417
324973	LVQ.A-70-14-SST-M24x170	328973	LVQ.A-70-14-AS-SST-M24x170	70	M24	204	207	170	34	31.5	19	18	14	14000	612	632
324975	LVQ.A-70-14-SST-M24x210	328975	LVQ.A-70-14-AS-SST-M24x210	70	M24	244	247	210	34	31.5	19	18	14	14000	756	776
325001	LVQ.A-80-14-SST-M16x68	329001	LVQ.A-80-14-AS-SST-M16x68	80	M16	102	105	68	34	32.5	24	12	14	16000	149	175
325003	LVQ.A-80-14-SST-M16x108	329003	LVQ.A-80-14-AS-SST-M16x108	80	M16	142	145	108	34	32.5	24	12	14	16000	213	239
325005	LVQ.A-80-14-SST-M16x148	329005	LVQ.A-80-14-AS-SST-M16x148	80	M16	182	185	148	34	32.5	24	12	14	16000	277	303
325007	LVQ.A-80-14-SST-M16x168	329007	LVQ.A-80-14-AS-SST-M16x168	80	M16	202	205	168	34	32.5	24	12	14	16000	309	335
325011	LVQ.A-80-14-SST-M20x110	329011	LVQ.A-80-14-AS-SST-M20x110	80	M20	149	152	110	39	36.5	24	15	14	16000	313	339
325013	LVQ.A-80-14-SST-M20x150	329013	LVQ.A-80-14-AS-SST-M20x150	80	M20	189	192	150	39	36.5	24	15	14	16000	413	439
325015	LVQ.A-80-14-SST-M20x170	329015	LVQ.A-80-14-AS-SST-M20x170	80	M20	209	212	170	39	36.5	24	15	14	16000	463	489
325017	LVQ.A-80-14-SST-M20x210	329017	LVQ.A-80-14-AS-SST-M20x210	80	M20	249	252	210	39	36.5	24	15	14	16000	562	588
325021	LVQ.A-80-14-SST-M24x110	329021	LVQ.A-80-14-AS-SST-M24x110	80	M24	149	152	110	39	36.5	24	18	14	16000	420	446
325023	LVQ.A-80-14-SST-M24x170	329023	LVQ.A-80-14-AS-SST-M24x170	80	M24	209	212	170	39	36.5	24	18	14	16000	635	661
325025	LVQ.A-80-14-SST-M24x210	329025	LVQ.A-80-14-AS-SST-M24x210	80	M24	249	252	210	39	36.5	24	18	14	16000	779	805
325851	LVQ.A-100-14-SST-M16x68	329851	LVQ.A-100-14-AS-SST-M16x68	100	M16	102	105	68	34	32.5	24	12	14	16000	179	233
325853	LVQ.A-100-14-SST-M16x108	329853	LVQ.A-100-14-AS-SST-M16x108	100	M16	142	145	108	34	32.5	24	12	14	16000	243	297
325855	LVQ.A-100-14-SST-M16x148	329855	LVQ.A-100-14-AS-SST-M16x148	100	M16	182	185	148	34	32.5	24	12	14	16000	307	361
325857	LVQ.A-100-14-SST-M16x168	329857	LVQ.A-100-14-AS-SST-M16x168	100	M16	202	205	168	34	32.5	24	12	14	16000	339	393
325861	LVQ.A-100-14-SST-M20x110	329861	LVQ.A-100-14-AS-SST-M20x110	100	M20	149	152	110	39	36.5	24	15	14	16000	343	397
325863	LVQ.A-100-14-SST-M20x150	329863	LVQ.A-100-14-AS-SST-M20x150	100	M20	189	192	150	39	36.5	24	15	14	16000	443	497
325865	LVQ.A-100-14-SST-M20x170	329865	LVQ.A-100-14-AS-SST-M20x170	100	M20	209	212	170	39	36.5	24	15	14	16000	493	547
325867	LVQ.A-100-14-SST-M20x210	329867	LVQ.A-100-14-AS-SST-M20x210	100	M20	249	252	210	39	36.5	24	15	14	16000	592	646
325871	LVQ.A-100-14-SST-M24x110	329871	LVQ.A-100-14-AS-SST-M24x110	100	M24	149	152	110	39	36.5	24	18	14	16000	450	504
325873	LVQ.A-100-14-SST-M24x170	329873	LVQ.A-100-14-AS-SST-M24x170	100	M24	209	212	170	39	36.5	24	18	14	16000	665	719
325875	LVQ.A-100-14-SST-M24x210	329875	LVQ.A-100-14-AS-SST-M24x210	100	M24	249	252	210	39	36.5	24	18	14	16000	809	863

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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RoHS PA NBR +100° -30°

Levelling elements for ground mounting

Technopolymer base, steel stem

ELESA Original design

BASE
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

ARTICULATED STEM
Threaded zinc-plated steel with regulation hexagon.

STANDARD EXECUTIONS
- **LV.F**: without no-slip disk.
- **LV.F-AS**: with NBR rubber no-slip disk, hardness 70 Shore A, supplied assembled to the base.

GROUND MOUNTING
By means of two holes at 180°, supplied covered by a diaphragm (which can be easily removed by a metal tool), to avoid all unhealthy deposits of dirt and dust when the ground mounting is not required (see Fig. 1).

FEATURES
The special knurling under the lower lip of the base provides excellent stability and grip when using the levelling element without no-slip disk even on surfaces that are not perfectly flat.
The particular assembling system of the no-slip disk to the base assures a perfect anchoring, preventing separation even in case of impact during transport or of adhesion (sticking) to the floor (see No-slip disk on page 1223).

ORDER INFORMATION
The levelling elements are supplied unassembled to make carriage and storage easier. The components (base and stem) are supplied in separate packing: less volume taken and better protection from scratches and dirt.
To order bases and stems separately, see:
table of the possible combinations Bases/Stems on page 1229.

ACCESSORIES ON REQUEST
Zinc-plated steel nut (see Nuts NT. on page 1223).

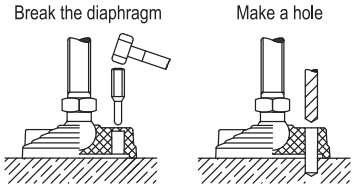
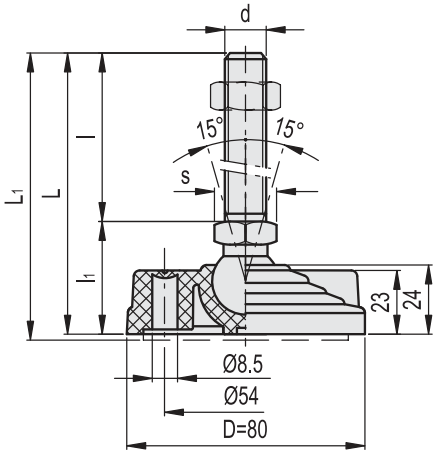
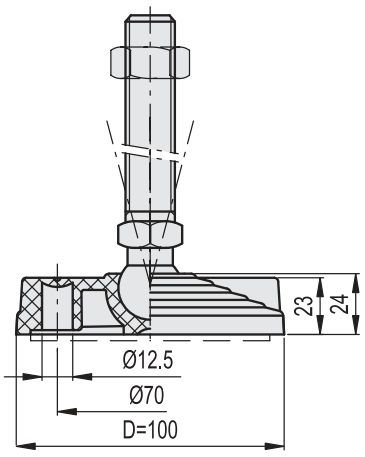


Fig.1

LV.F-80



LV.F-100



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LV.F		LV.F-AS											
Code	Description	Code	Description	D	d	L	L1#	l	l1	s	Articulation Ø	Max. limit static load* [N]	⚖ ⚖ #
311121	LV.F-80-14-M8x43	314121	LV.F-80-14-AS-M8x43	80	M8	76	79	43	33	14	14	16000	85 111
311125	LV.F-80-14-M8x68	314125	LV.F-80-14-AS-M8x68	80	M8	101	104	68	33	14	14	16000	97 123
311221	LV.F-80-14-M10x43	314221	LV.F-80-14-AS-M10x43	80	M10	76	79	43	33	14	14	16000	94 120
311225	LV.F-80-14-M10x68	314225	LV.F-80-14-AS-M10x68	80	M10	101	104	68	33	14	14	16000	106 132
311231	LV.F-80-14-M10x98	314231	LV.F-80-14-AS-M10x98	80	M10	131	134	98	33	14	14	16000	120 146
311321	LV.F-80-14-M12x43	314321	LV.F-80-14-AS-M12x43	80	M12	76	79	43	33	14	14	16000	104 130
311325	LV.F-80-14-M12x68	314325	LV.F-80-14-AS-M12x68	80	M12	101	104	68	33	14	14	16000	121 147
311331	LV.F-80-14-M12x98	314331	LV.F-80-14-AS-M12x98	80	M12	131	134	98	33	14	14	16000	142 168
311421	LV.F-80-14-M14X68	314421	LV.F-80-14-AS-M14X68	80	M14	101	104	68	33	14	14	16000	143 169
311431	LV.F-80-14-M14X98	314431	LV.F-80-14-AS-M14X98	80	M14	131	134	98	33	14	14	16000	164 190
311441	LV.F-80-14-M14X148	314441	LV.F-80-14-AS-M14X148	80	M14	181	184	148	33	14	14	16000	247 273
311521	LV.F-80-14-M16x68	314521	LV.F-80-14-AS-M16x68	80	M16	101	104	68	33	16	14	16000	165 191
311525	LV.F-80-14-M16x108	314525	LV.F-80-14-AS-M16x108	80	M16	141	144	108	33	16	14	16000	217 243
311541	LV.F-80-14-M16x148	314541	LV.F-80-14-AS-M16x148	80	M16	181	184	148	33	16	14	16000	269 295
311561	LV.F-80-14-M16x168	314561	LV.F-80-14-AS-M16x168	80	M16	201	204	168	33	16	14	16000	295 321
311621	LV.F-80-24-M16x58	314621	LV.F-80-24-AS-M16x58	80	M16	101	104	58	43	24	24	18000	227 253
311625	LV.F-80-24-M16x98	314625	LV.F-80-24-AS-M16x98	80	M16	141	144	98	43	24	24	18000	278 304
311641	LV.F-80-24-M16x138	314641	LV.F-80-24-AS-M16x138	80	M16	181	184	138	43	24	24	18000	328 354
311661	LV.F-80-24-M16x158	314661	LV.F-80-24-AS-M16x158	80	M16	201	204	158	43	24	24	18000	355 381
311725	LV.F-80-24-M20x98	314725	LV.F-80-24-AS-M20x98	80	M20	141	144	98	43	24	24	18000	348 374
311741	LV.F-80-24-M20x138	314741	LV.F-80-24-AS-M20x138	80	M20	181	184	138	43	24	24	18000	427 453
311761	LV.F-80-24-M20x158	314761	LV.F-80-24-AS-M20x158	80	M20	201	204	158	43	24	24	18000	466 492
311781	LV.F-80-24-M20x198	314781	LV.F-80-24-AS-M20x198	80	M20	241	244	198	43	24	24	18000	549 575
311825	LV.F-80-24-M24x98	314825	LV.F-80-24-AS-M24x98	80	M24	141	144	98	43	24	24	18000	446 472
311861	LV.F-80-24-M24x158	314861	LV.F-80-24-AS-M24x158	80	M24	201	204	158	43	24	24	18000	618 644
311881	LV.F-80-24-M24x198	314881	LV.F-80-24-AS-M24x198	80	M24	241	244	198	43	24	24	18000	736 762
312451	LV.F-100-14-M8x43	315451	LV.F-100-14-AS-M8x43	100	M8	76	79	43	33	14	14	18000	93 148
312453	LV.F-100-14-M8x68	315453	LV.F-100-14-AS-M8x68	100	M8	101	104	68	33	14	14	18000	105 160
312461	LV.F-100-14-M10x43	315461	LV.F-100-14-AS-M10x43	100	M10	76	79	43	33	14	14	18000	102 157
312463	LV.F-100-14-M10x68	315463	LV.F-100-14-AS-M10x68	100	M10	101	104	68	33	14	14	18000	114 169
312465	LV.F-100-14-M10x98	315465	LV.F-100-14-AS-M10x98	100	M10	131	134	98	33	14	14	18000	128 183
312471	LV.F-100-14-M12x43	315471	LV.F-100-14-AS-M12x43	100	M12	76	79	43	33	14	14	18000	112 167
312473	LV.F-100-14-M12x68	315473	LV.F-100-14-AS-M12x68	100	M12	101	104	68	33	14	14	18000	129 184
312475	LV.F-100-14-M12x98	315475	LV.F-100-14-AS-M12x98	100	M12	131	134	98	33	14	14	18000	150 205
312477	LV.F-100-14-M14X68	315477	LV.F-100-14-AS-M14X68	100	M14	101	104	68	33	14	14	18000	151 206
312479	LV.F-100-14-M14X98	315479	LV.F-100-14-AS-M14X98	100	M14	131	134	98	33	14	14	18000	172 227
312480	LV.F-100-14-M14X148	315480	LV.F-100-14-AS-M14X148	100	M14	181	184	148	33	14	14	18000	255 310
312481	LV.F-100-14-M16x68	315481	LV.F-100-14-AS-M16x68	100	M16	101	104	68	33	16	14	18000	173 228
312483	LV.F-100-14-M16x108	315483	LV.F-100-14-AS-M16x108	100	M16	141	144	108	33	16	14	18000	225 280
312485	LV.F-100-14-M16x148	315485	LV.F-100-14-AS-M16x148	100	M16	181	184	148	33	16	14	18000	277 332
312487	LV.F-100-14-M16x168	315487	LV.F-100-14-AS-M16x168	100	M16	201	204	168	33	16	14	18000	303 358
312521	LV.F-100-24-M16x58	315521	LV.F-100-24-AS-M16x58	100	M16	101	104	58	43	24	24	25000	257 311
312525	LV.F-100-24-M16x98	315525	LV.F-100-24-AS-M16x98	100	M16	141	144	98	43	24	24	25000	308 362
312541	LV.F-100-24-M16x138	315541	LV.F-100-24-AS-M16x138	100	M16	181	184	138	43	24	24	25000	358 412
312561	LV.F-100-24-M16x158	315561	LV.F-100-24-AS-M16x158	100	M16	201	204	158	43	24	24	25000	385 439
312625	LV.F-100-24-M20x98	315625	LV.F-100-24-AS-M20x98	100	M20	141	144	98	43	24	24	25000	378 432
312641	LV.F-100-24-M20x138	315641	LV.F-100-24-AS-M20x138	100	M20	181	184	138	43	24	24	25000	457 511
312661	LV.F-100-24-M20x158	315661	LV.F-100-24-AS-M20x158	100	M20	201	204	158	43	24	24	25000	496 550
312681	LV.F-100-24-M20x198	315681	LV.F-100-24-AS-M20x198	100	M20	241	244	198	43	24	24	25000	579 633
312725	LV.F-100-24-M24x98	315725	LV.F-100-24-AS-M24x98	100	M24	141	144	98	43	24	24	25000	476 530
312761	LV.F-100-24-M24x158	315761	LV.F-100-24-AS-M24x158	100	M24	201	204	158	43	24	24	25000	648 702
312781	LV.F-100-24-M24x198	315781	LV.F-100-24-AS-M24x198	100	M24	241	244	198	43	24	24	25000	766 820

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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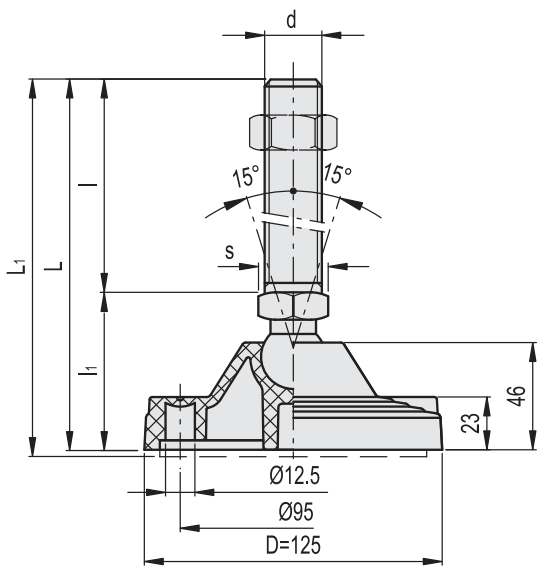
LV.F-125



LV.F **LV.F-AS**

Code	Description	Code	Description	D	d	L	L1#	l	l1	s	Articulation Ø	Max. limit static load* [N]	⚖	⚖ #
313521	LV.F-125-24-M16x58	316221	LV.F-125-24-AS-M16x58	125	M16	125	128	58	67	24	24	28000	396	521
313525	LV.F-125-24-M16x98	316225	LV.F-125-24-AS-M16x98	125	M16	165	168	98	67	24	24	28000	447	572
313541	LV.F-125-24-M16x138	316241	LV.F-125-24-AS-M16x138	125	M16	205	208	138	67	24	24	28000	497	622
313561	LV.F-125-24-M16x158	316261	LV.F-125-24-AS-M16x158	125	M16	225	228	158	67	24	24	28000	524	649
313625	LV.F-125-24-M20x98	316325	LV.F-125-24-AS-M20x98	125	M20	165	168	98	67	24	24	28000	517	642
313641	LV.F-125-24-M20x138	316341	LV.F-125-24-AS-M20x138	125	M20	205	208	138	67	24	24	28000	596	721
313661	LV.F-125-24-M20x158	316361	LV.F-125-24-AS-M20x158	125	M20	225	228	158	67	24	24	28000	635	760
313681	LV.F-125-24-M20x198	316381	LV.F-125-24-AS-M20x198	125	M20	265	268	198	67	24	24	28000	718	843
313725	LV.F-125-24-M24x98	316425	LV.F-125-24-AS-M24x98	125	M24	165	168	98	67	24	24	28000	615	740
313761	LV.F-125-24-M24x158	316461	LV.F-125-24-AS-M24x158	125	M24	225	228	158	67	24	24	28000	787	912
313781	LV.F-125-24-M24x198	316481	LV.F-125-24-AS-M24x198	125	M24	265	268	198	67	24	24	28000	905	1030

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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LV.F-SST

Levelling elements for ground mounting

Technopolymer base, stainless steel stem

BASE
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

ARTICULATED STEM
Threaded AISI 304 stainless steel with regulation hexagon.

STANDARD EXECUTIONS
- **LV.F-SST**: without no-slip disk.
- **LV.F-AS-SST:** with NBR rubber no-slip disk, hardness 70 Shore A, supplied assembled to the base.

GROUND MOUNTING
By means of two holes at 180°, supplied covered by a diaphragm (which can be easily removed by a metal tool), to avoid all unhealthy deposits of dirt and dust when the ground mounting is not required (see Fig. 1).

FEATURES
The special knurling under the lower lip of the base provides excellent stability and grip when using the levelling element without no-slip disk even on surfaces that are not perfectly flat.
The particular assembling system of the no-slip disk to the base assures a perfect anchoring, preventing separation even in case of impact during transport or of adhesion (sticking) to the floor (see No-slip disk on page 1223).

ORDER INFORMATION
The levelling elements are supplied unassembled to make carriage and storage easier. The components (base and stem) are supplied in separate packing: less volume taken and better protection from scratches and dirt.
To order bases and stems separately, see:
table of the possible combinations Bases/Stems on page 1229.

ACCESSORIES ON REQUEST
AISI 304 stainless steel nut (see Nuts NT. on page 1223).

ELESA Original design

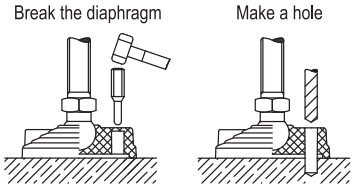

Fig.1

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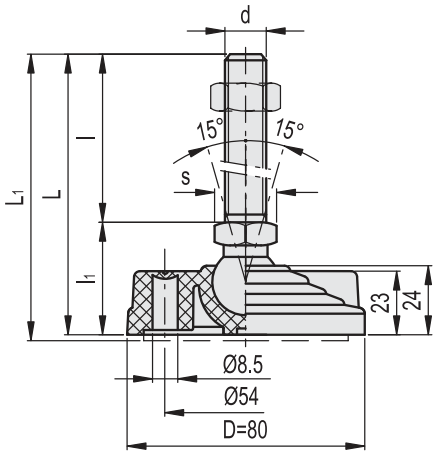
LV.F-SST | Levelling elements for ground mounting

LV.F-80-SST



LV.F-SST **LV.F-AS-SST** **STAINLESS STEEL**

Code	Description	Code	Description	D	d	L	L1#	l	l1	s	Articulation Ø	Max. limit static load* [N]	⚖	⚖#
331121	LV.F-80-14-SST-M8x43	334121	LV.F-80-14-AS-SST-M8x43	80	M8	76	79	43	33	14	14	16000	86	112
331125	LV.F-80-14-SST-M8x68	334125	LV.F-80-14-AS-SST-M8x68	80	M8	101	104	68	33	14	14	16000	98	124
331221	LV.F-80-14-SST-M10x43	334221	LV.F-80-14-AS-SST-M10x43	80	M10	76	79	43	33	14	14	16000	95	121
331225	LV.F-80-14-SST-M10x68	334225	LV.F-80-14-AS-SST-M10x68	80	M10	101	104	68	33	14	14	16000	108	134
331231	LV.F-80-14-SST-M10x98	334231	LV.F-80-14-AS-SST-M10x98	80	M10	131	134	98	33	14	14	16000	122	148
331321	LV.F-80-14-SST-M12x43	334321	LV.F-80-14-AS-SST-M12x43	80	M12	76	79	43	33	14	14	16000	105	131
331325	LV.F-80-14-SST-M12x68	334325	LV.F-80-14-AS-SST-M12x68	80	M12	101	104	68	33	14	14	16000	123	149
331331	LV.F-80-14-SST-M12x98	334331	LV.F-80-14-AS-SST-M12x98	80	M12	131	134	98	33	14	14	16000	145	171
331421	LV.F-80-14-SST-M14X68	334421	LV.F-80-14-AS-SST-M14X68	80	M14	101	104	68	33	14	14	16000	146	172
331431	LV.F-80-14-SST-M14X98	334431	LV.F-80-14-AS-SST-M14X98	80	M14	131	134	98	33	14	14	16000	167	193
331441	LV.F-80-14-SST-M14X148	334441	LV.F-80-14-AS-SST-M14X148	80	M14	181	184	148	33	14	14	16000	250	276
331521	LV.F-80-14-SST-M16x68	334521	LV.F-80-14-AS-SST-M16x68	80	M16	101	104	68	33	16	14	16000	168	194
331525	LV.F-80-14-SST-M16x108	334525	LV.F-80-14-AS-SST-M16x108	80	M16	141	144	108	33	16	14	16000	222	248
331541	LV.F-80-14-SST-M16x148	334541	LV.F-80-14-AS-SST-M16x148	80	M16	181	184	148	33	16	14	16000	275	301
331561	LV.F-80-14-SST-M16x168	334561	LV.F-80-14-AS-SST-M16x168	80	M16	201	204	168	33	16	14	16000	302	328
331621	LV.F-80-24-SST-M16x58	334621	LV.F-80-24-AS-SST-M16x58	80	M16	101	104	58	43	24	24	18000	230	256
331625	LV.F-80-24-SST-M16x98	334625	LV.F-80-24-AS-SST-M16x98	80	M16	141	144	98	43	24	24	18000	282	308
331641	LV.F-80-24-SST-M16x138	334641	LV.F-80-24-AS-SST-M16x138	80	M16	181	184	138	43	24	24	18000	333	359
331661	LV.F-80-24-SST-M16x158	334661	LV.F-80-24-AS-SST-M16x158	80	M16	201	204	158	43	24	24	18000	361	387
331725	LV.F-80-24-SST-M20x98	334725	LV.F-80-24-AS-SST-M20x98	80	M20	141	144	98	43	24	24	18000	354	380
331741	LV.F-80-24-SST-M20x138	334741	LV.F-80-24-AS-SST-M20x138	80	M20	181	184	138	43	24	24	18000	434	460
331761	LV.F-80-24-SST-M20x158	334761	LV.F-80-24-AS-SST-M20x158	80	M20	201	204	158	43	24	24	18000	474	500
331781	LV.F-80-24-SST-M20x198	334781	LV.F-80-24-AS-SST-M20x198	80	M20	241	244	198	43	24	24	18000	559	585
331825	LV.F-80-24-SST-M24x98	334825	LV.F-80-24-AS-SST-M24x98	80	M24	141	144	98	43	24	24	18000	454	480
331861	LV.F-80-24-SST-M24x158	334861	LV.F-80-24-AS-SST-M24x158	80	M24	201	204	158	43	24	24	18000	629	655
331881	LV.F-80-24-SST-M24x198	334881	LV.F-80-24-AS-SST-M24x198	80	M24	241	244	198	43	24	24	18000	750	776

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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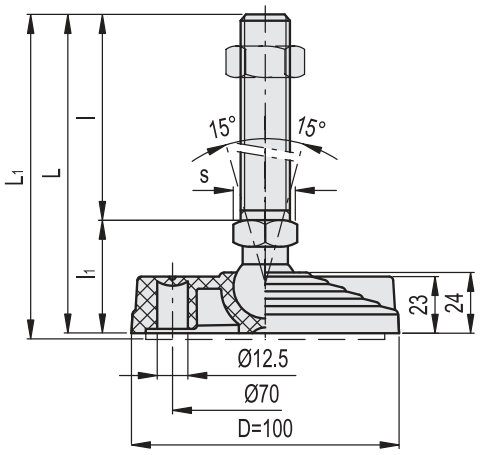
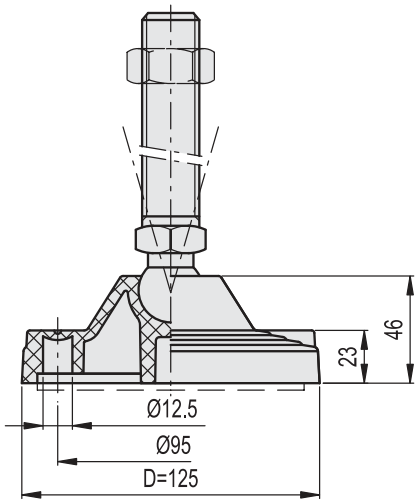
LV.F-SST

Levelling elements for ground mounting

LV.F-100-SST



LV.F-125-SST



LV.F-SST **LV.F-AS-SST** **STAINLESS STEEL**

Code	Description	Code	Description	D	d	L	L1#	l	l1	s	Articulation Ø	Max. limit static load* [N]	⚖	⚖#
332451	LV.F-100-14-SST-M8x43	335451	LV.F-100-14-AS-SST-M8x43	100	M8	76	79	43	33	14	14	18000	93	148
332453	LV.F-100-14-SST-M8x68	335453	LV.F-100-14-AS-SST-M8x68	100	M8	101	104	68	33	14	14	18000	105	160
332461	LV.F-100-14-SST-M10x43	335461	LV.F-100-14-AS-SST-M10x43	100	M10	76	79	43	33	14	14	18000	102	157
332463	LV.F-100-14-SST-M10x68	335463	LV.F-100-14-AS-SST-M10x68	100	M10	101	104	68	33	14	14	18000	114	169
332465	LV.F-100-14-SST-M10x98	335465	LV.F-100-14-AS-SST-M10x98	100	M10	131	134	98	33	14	14	18000	128	183
332471	LV.F-100-14-SST-M12x43	335471	LV.F-100-14-AS-SST-M12x43	100	M12	76	79	43	33	14	14	18000	112	167
332473	LV.F-100-14-SST-M12x68	335473	LV.F-100-14-AS-SST-M12x68	100	M12	101	104	68	33	14	14	18000	129	184
332475	LV.F-100-14-SST-M12x98	335475	LV.F-100-14-AS-SST-M12x98	100	M12	131	134	98	33	14	14	18000	150	205
332477	LV.F-100-14-SST-M14X68	335477	LV.F-100-14-AS-SST-M14X68	100	M14	101	104	68	33	14	14	18000	151	206
332479	LV.F-100-14-SST-M14X98	335479	LV.F-100-14-AS-SST-M14X98	100	M14	131	134	98	33	14	14	18000	172	227
332480	LV.F-100-14-SST-M14X148	335480	LV.F-100-14-AS-SST-M14X148	100	M14	181	184	148	33	14	14	18000	255	310
332481	LV.F-100-14-SST-M16x68	335481	LV.F-100-14-AS-SST-M16x68	100	M16	101	104	68	33	16	14	18000	173	228
332483	LV.F-100-14-SST-M16x108	335483	LV.F-100-14-AS-SST-M16x108	100	M16	141	144	108	33	16	14	18000	225	280
332485	LV.F-100-14-SST-M16x148	335485	LV.F-100-14-AS-SST-M16x148	100	M16	181	184	148	33	16	14	18000	277	332
332487	LV.F-100-14-SST-M16x168	335487	LV.F-100-14-AS-SST-M16x168	100	M16	201	204	168	33	16	14	18000	303	358
332521	LV.F-100-24-SST-M16x58	335521	LV.F-100-24-AS-SST-M16x58	100	M16	101	104	58	43	24	24	25000	260	314
332525	LV.F-100-24-SST-M16x98	335525	LV.F-100-24-AS-SST-M16x98	100	M16	141	144	98	43	24	24	25000	312	366
332541	LV.F-100-24-SST-M16x138	335541	LV.F-100-24-AS-SST-M16x138	100	M16	181	184	138	43	24	24	25000	363	417
332561	LV.F-100-24-SST-M16x158	335561	LV.F-100-24-AS-SST-M16x158	100	M16	201	204	158	43	24	24	25000	391	445
332625	LV.F-100-24-SST-M20x98	335625	LV.F-100-24-AS-SST-M20x98	100	M20	141	144	98	43	24	24	25000	384	438
332641	LV.F-100-24-SST-M20x138	335641	LV.F-100-24-AS-SST-M20x138	100	M20	181	184	138	43	24	24	25000	464	518
332661	LV.F-100-24-SST-M20x158	335661	LV.F-100-24-AS-SST-M20x158	100	M20	201	204	158	43	24	24	25000	504	558
332681	LV.F-100-24-SST-M20x198	335681	LV.F-100-24-AS-SST-M20x198	100	M20	241	244	198	43	24	24	25000	589	643
332725	LV.F-100-24-SST-M24x98	335725	LV.F-100-24-AS-SST-M24x98	100	M24	141	144	98	43	24	24	25000	484	538
332761	LV.F-100-24-SST-M24x158	335761	LV.F-100-24-AS-SST-M24x158	100	M24	201	204	158	43	24	24	25000	659	713
332781	LV.F-100-24-SST-M24x198	335781	LV.F-100-24-AS-SST-M24x198	100	M24	241	244	198	43	24	24	25000	780	834
333521	LV.F-125-24-SST-M16x58	336221	LV.F-125-24-AS-SST-M16x58	125	M16	125	128	58	67	24	24	28000	399	524
333525	LV.F-125-24-SST-M16x98	336225	LV.F-125-24-AS-SST-M16x98	125	M16	165	168	98	67	24	24	28000	451	576
333541	LV.F-125-24-SST-M16x138	336241	LV.F-125-24-AS-SST-M16x138	125	M16	205	208	138	67	24	24	28000	502	627
333561	LV.F-125-24-SST-M16x158	336261	LV.F-125-24-AS-SST-M16x158	125	M16	225	228	158	67	24	24	28000	530	655
333625	LV.F-125-24-SST-M20x98	336325	LV.F-125-24-AS-SST-M20x98	125	M20	165	168	98	67	24	24	28000	523	648
333641	LV.F-125-24-SST-M20x138	336341	LV.F-125-24-AS-SST-M20x138	125	M20	205	208	138	67	24	24	28000	603	728
333661	LV.F-125-24-SST-M20x158	336361	LV.F-125-24-AS-SST-M20x158	125	M20	225	228	158	67	24	24	28000	643	768
333681	LV.F-125-24-SST-M20x198	336381	LV.F-125-24-AS-SST-M20x198	125	M20	265	268	198	67	24	24	28000	728	853
333725	LV.F-125-24-SST-M24x98	336425	LV.F-125-24-AS-SST-M24x98	125	M24	165	168	98	67	24	24	28000	623	748
333761	LV.F-125-24-SST-M24x158	336461	LV.F-125-24-AS-SST-M24x158	125	M24	225	228	158	67	24	24	28000	798	923
333781	LV.F-125-24-SST-M24x198	336481	LV.F-125-24-AS-SST-M24x198	125	M24	265	268	198	67	24	24	28000	919	1044

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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Levelling elements for ground mounting

Technopolymer base, stainless steel stem

BASE
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

ARTICULATED STEM
Threaded AISI 304 stainless steel with adjusting square.

STANDARD EXECUTIONS
- **LVQ.F-SST**: without no-slip disk.
- **LVQ.F-AS-SST:** with NBR rubber no-slip disk, hardness 70 Shore A, supplied assembled to the base.

GROUND MOUNTING
By means of two holes at 180°, supplied covered by a diaphragm (which can be easily removed by a metal tool), to avoid all unhealthy deposits of dirt and dust when the ground mounting is not required (see Fig. 1).

FEATURES
The special knurling under the lower lip of the base provides excellent stability and grip when using the levelling element without no-slip disk even on surfaces that are not perfectly flat.
The particular assembling system of the no-slip disk to the base assures a perfect anchoring, preventing separation even in case of impact during transport or of adhesion (sticking) to the floor (see No-slip disk on page 1223).

ORDER INFORMATION
The levelling elements are supplied unassembled to make carriage and storage easier. The components (base and stem) are supplied in separate packing: less volume taken and better protection from scratches and dirt.
To order bases and stems separately, see:
table of the possible combinations Bases/Stems on page 1229.

ACCESSORIES ON REQUEST
AISI 304 stainless steel nut (see Nuts NT. on page 1223).

ELESA Original design

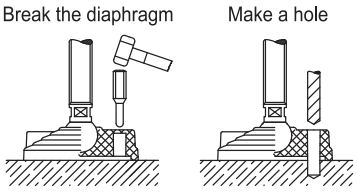

Fig.1

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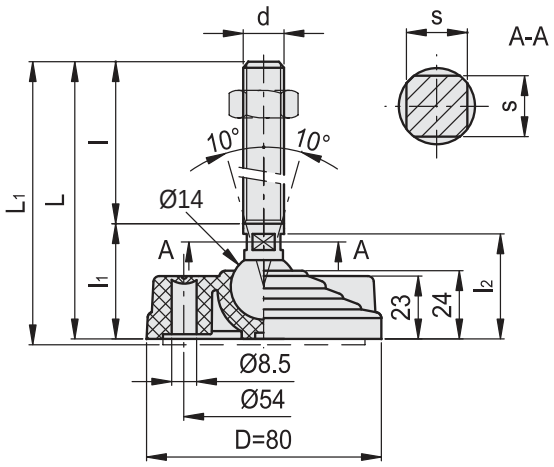
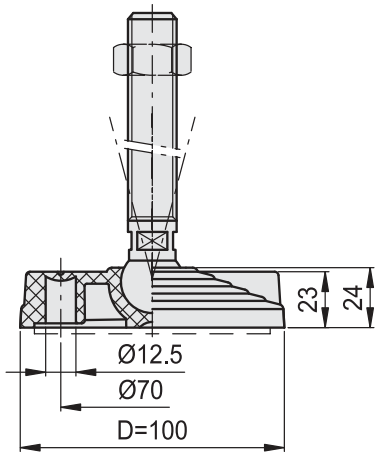
LVQ.F-SST | Levelling elements for ground mounting

LVQ.F-80-SST



LVQ.F-100-SST



LVQ.F-SST **LVQ.F-AS-SST** **STAINLESS STEEL**

Code	Description	Code	Description	D	d	L	L1#	l	l1	l2	s	Max. limit static load* [N]	⚖	⚖ #
332001	LVQ.F-80-14-SST-M16x68	335001	LVQ.F-80-14-AS-SST-M16x68	80	M16	102	105	68	34	32.5	12	16000	151	177
332003	LVQ.F-80-14-SST-M16x108	335003	LVQ.F-80-14-AS-SST-M16x108	80	M16	142	145	108	34	32.5	12	16000	215	241
332005	LVQ.F-80-14-SST-M16x148	335005	LVQ.F-80-14-AS-SST-M16x148	80	M16	182	185	148	34	32.5	12	16000	279	305
332007	LVQ.F-80-14-SST-M16x168	335007	LVQ.F-80-14-AS-SST-M16x168	80	M16	202	205	168	34	32.5	12	16000	311	337
332011	LVQ.F-80-14-SST-M20x110	335011	LVQ.F-80-14-AS-SST-M20x110	80	M20	149	152	110	39	36.5	15	16000	315	341
332013	LVQ.F-80-14-SST-M20x150	335013	LVQ.F-80-14-AS-SST-M20x150	80	M20	189	192	150	39	36.5	15	16000	415	441
332015	LVQ.F-80-14-SST-M20x170	335015	LVQ.F-80-14-AS-SST-M20x170	80	M20	209	212	170	39	36.5	15	16000	465	491
332017	LVQ.F-80-14-SST-M20x210	335017	LVQ.F-80-14-AS-SST-M20x210	80	M20	249	252	210	39	36.5	15	16000	564	590
332021	LVQ.F-80-14-SST-M24x110	335021	LVQ.F-80-14-AS-SST-M24x110	80	M24	149	152	110	39	36.5	18	16000	422	448
332023	LVQ.F-80-14-SST-M24x170	335023	LVQ.F-80-14-AS-SST-M24x170	80	M24	209	212	170	39	36.5	18	16000	637	663
332025	LVQ.F-80-14-SST-M24x210	335025	LVQ.F-80-14-AS-SST-M24x210	80	M24	249	252	210	39	36.5	18	16000	781	807
333851	LVQ.F-100-14-SST-M16x68	335851	LVQ.F-100-14-AS-SST-M16x68	100	M16	102	105	68	34	32.5	12	16000	181	235
333853	LVQ.F-100-14-SST-M16x108	335853	LVQ.F-100-14-AS-SST-M16x108	100	M16	142	145	108	34	32.5	12	16000	245	299
333855	LVQ.F-100-14-SST-M16x148	335855	LVQ.F-100-14-AS-SST-M16x148	100	M16	182	185	148	34	32.5	12	16000	309	363
333857	LVQ.F-100-14-SST-M16x168	335857	LVQ.F-100-14-AS-SST-M16x168	100	M16	202	205	168	34	32.5	12	16000	341	395
333861	LVQ.F-100-14-SST-M20x110	335861	LVQ.F-100-14-AS-SST-M20x110	100	M20	149	152	110	39	36.5	15	16000	345	399
333863	LVQ.F-100-14-SST-M20x150	335863	LVQ.F-100-14-AS-SST-M20x150	100	M20	189	192	150	39	36.5	15	16000	445	499
333865	LVQ.F-100-14-SST-M20x170	335865	LVQ.F-100-14-AS-SST-M20x170	100	M20	209	212	170	39	36.5	15	16000	495	549
333867	LVQ.F-100-14-SST-M20x210	335867	LVQ.F-100-14-AS-SST-M20x210	100	M20	249	252	210	39	36.5	15	16000	594	648
333871	LVQ.F-100-14-SST-M24x110	335871	LVQ.F-100-14-AS-SST-M24x110	100	M24	149	152	110	39	36.5	18	16000	452	506
333873	LVQ.F-100-14-SST-M24x170	335873	LVQ.F-100-14-AS-SST-M24x170	100	M24	209	212	170	39	36.5	18	16000	667	721
333875	LVQ.F-100-14-SST-M24x210	335875	LVQ.F-100-14-AS-SST-M24x210	100	M24	249	252	210	39	36.5	18	16000	811	865

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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INOX STAINLESS STEEL · RoHS · PA · NBR · +100° -30°

Levelling elements for ground mounting

Technopolymer base, steel or stainless steel stem

BASE

Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

STANDARD EXECUTIONS

Zinc-plated steel threaded and articulated stem with regulation hexagon:

- **LV.FO**: base without no-slip disk.
- **LV.FO-AS**: base with NBR rubber no-slip disk, hardness 70 Shore A, supplied assembled to the base.

AISI 304 stainless steel articulated and threaded stem with regulation hexagon:

- **LV.FO-SST**: base without no-slip disk.
- **LV.FO-AS-SST**: base with NBR rubber no-slip disk, hardness 70 Shore A, supplied assembled to the base.

GROUND MOUNTING

By means of two holes, supplied covered by a diaphragm (which can be easily removed by a metal tool), to avoid all unhealthy deposits of dirt and dust when only one hole is used (see Fig. 1).

FEATURES

The special knurling under the lower lip of the base provides excellent stability and grip when using the levelling element without no-slip disk even on surfaces that are not perfectly flat.
The particular assembling system of the no-slip disk to the base assures a perfect anchoring, preventing separation even in case of impact during transport or of adhesion (sticking) to the floor (see No-slip disks on page 1223).

ORDER INFORMATION

The levelling elements are supplied unassembled to make carriage and storage easier. The components (base and stem) are supplied in separate packing: less volume taken and better protection from scratches and dirt.
To order bases and stems separately, see:
table of the possible combinations Bases/Stems on page 1229.

ACCESSORIES ON REQUEST

AISI 304 stainless steel or zinc-plated steel nut (see Nuts NT. on page 1223).

ELESA Original design

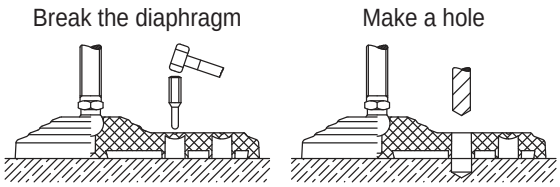
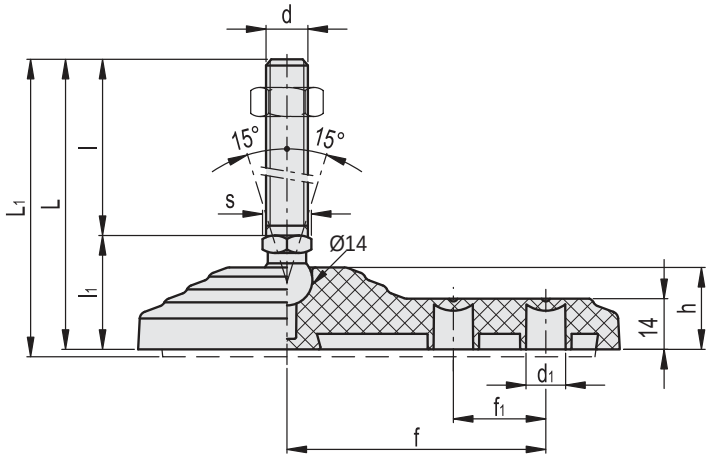
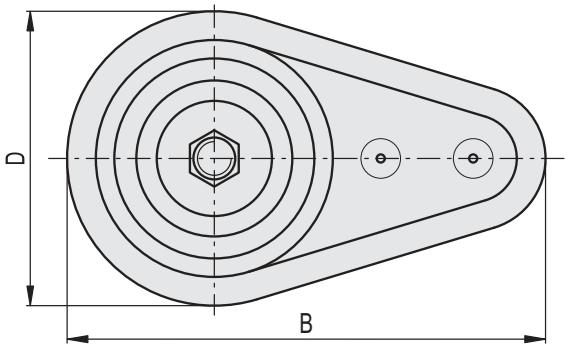


Fig.1





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LV.FO

Levelling elements for ground mounting

LV.FO **LV.FO-AS**

Code	Description	Code	Description	D	d	d1	L	L1#	l	l1	h	f	f1	s	Max. limit static load* [N]	⚖	⚖ #
513011	LV.FO-60-14-M8x43	516011	LV.FO-60-14-AS-M8x43	60	M8	8.5	73	75	43	30	21	50	18	14	14000	78	94
513016	LV.FO-60-14-M8x68	516016	LV.FO-60-14-AS-M8x68	60	M8	8.5	98	100	68	30	21	50	18	14	14000	90	106
513021	LV.FO-60-14-M10x43	516021	LV.FO-60-14-AS-M10x43	60	M10	8.5	73	75	43	30	21	50	18	14	14000	87	103
513026	LV.FO-60-14-M10x68	516026	LV.FO-60-14-AS-M10x68	60	M10	8.5	98	100	68	30	21	50	18	14	14000	99	115
513031	LV.FO-60-14-M10x98	516031	LV.FO-60-14-AS-M10x98	60	M10	8.5	128	130	98	30	21	50	18	14	14000	113	129
513036	LV.FO-60-14-M12x43	516036	LV.FO-60-14-AS-M12x43	60	M12	8.5	73	75	43	30	21	50	18	14	14000	97	113
513041	LV.FO-60-14-M12x68	516041	LV.FO-60-14-AS-M12x68	60	M12	8.5	98	100	68	30	21	50	18	14	14000	114	130
513046	LV.FO-60-14-M12x98	516046	LV.FO-60-14-AS-M12x98	60	M12	8.5	128	130	98	30	21	50	18	14	14000	135	151
513047	LV.FO-60-14-M14X68	516047	LV.FO-60-14-AS-M14X68	60	M14	8.5	98	100	68	30	21	50	18	14	14000	136	152
513049	LV.FO-60-14-M14X98	516049	LV.FO-60-14-AS-M14X98	60	M14	8.5	128	130	98	30	21	50	18	14	14000	157	174
513050	LV.FO-60-14-M14X148	516050	LV.FO-60-14-AS-M14X148	60	M14	8.5	178	180	148	30	21	50	18	14	14000	240	256
513051	LV.FO-60-14-M16x68	516051	LV.FO-60-14-AS-M16x68	60	M16	8.5	98	100	68	30	21	50	18	16	14000	158	174
513056	LV.FO-60-14-M16x108	516056	LV.FO-60-14-AS-M16x108	60	M16	8.5	138	140	108	30	21	50	18	16	14000	210	226
513061	LV.FO-60-14-M16x148	516061	LV.FO-60-14-AS-M16x148	60	M16	8.5	178	180	148	30	21	50	18	16	14000	262	278
513066	LV.FO-60-14-M16x168	516066	LV.FO-60-14-AS-M16x168	60	M16	8.5	198	200	168	30	21	50	18	16	14000	288	304
513121	LV.FO-80-14-M8x43	516121	LV.FO-80-14-AS-M8x43	80	M8	10.5	74	76	43	31	22	70	25	14	16000	116	146
513125	LV.FO-80-14-M8x68	516125	LV.FO-80-14-AS-M8x68	80	M8	10.5	99	101	68	31	22	70	25	14	16000	128	158
513221	LV.FO-80-14-M10x43	516221	LV.FO-80-14-AS-M10x43	80	M10	10.5	74	76	43	31	22	70	25	14	16000	125	155
513225	LV.FO-80-14-M10x68	516225	LV.FO-80-14-AS-M10x68	80	M10	10.5	99	101	68	31	22	70	25	14	16000	137	167
513231	LV.FO-80-14-M10x98	516231	LV.FO-80-14-AS-M10x98	80	M10	10.5	129	131	98	31	22	70	25	14	16000	151	181
513321	LV.FO-80-14-M12x43	516321	LV.FO-80-14-AS-M12x43	80	M12	10.5	74	76	43	31	22	70	25	14	16000	135	165
513325	LV.FO-80-14-M12x68	516325	LV.FO-80-14-AS-M12x68	80	M12	10.5	99	101	68	31	22	70	25	14	16000	152	182
513331	LV.FO-80-14-M12x98	516331	LV.FO-80-14-AS-M12x98	80	M12	10.5	129	131	98	31	22	70	25	14	16000	173	203
513421	LV.FO-80-14-M14X68	516421	LV.FO-80-14-AS-M14X68	80	M14	10.5	99	101	68	31	22	70	25	14	16000	174	204
513431	LV.FO-80-14-M14X98	516431	LV.FO-80-14-AS-M14X98	80	M14	10.5	129	131	98	31	22	70	25	14	16000	196	225
513441	LV.FO-80-14-M14X148	516441	LV.FO-80-14-AS-M14X148	80	M14	10.5	179	181	148	31	22	70	25	14	16000	278	308
513521	LV.FO-80-14-M16x68	516521	LV.FO-80-14-AS-M16x68	80	M16	10.5	99	101	68	31	22	70	25	16	16000	196	226
513525	LV.FO-80-14-M16x108	516525	LV.FO-80-14-AS-M16x108	80	M16	10.5	139	141	108	31	22	70	25	16	16000	248	278
513541	LV.FO-80-14-M16x148	516541	LV.FO-80-14-AS-M16x148	80	M16	10.5	179	181	148	31	22	70	25	16	16000	300	330
513561	LV.FO-80-14-M16x168	516561	LV.FO-80-14-AS-M16x168	80	M16	10.5	199	201	168	31	22	70	25	16	16000	326	356

LV.FO-SST **LV.FO-AS-SST** **STAINLESS STEEL**

533011	LV.FO-60-14-SST-M8x43	535901	LV.FO-60-14-AS-SST-M8x43	60	M8	8.5	73	75	43	30	21	50	18	14	14000	79	95
533016	LV.FO-60-14-SST-M8x68	535906	LV.FO-60-14-AS-SST-M8x68	60	M8	8.5	98	100	68	30	21	50	18	14	14000	91	107
533021	LV.FO-60-14-SST-M10x43	535911	LV.FO-60-14-AS-SST-M10x43	60	M10	8.5	73	75	43	30	21	50	18	14	14000	88	104
533026	LV.FO-60-14-SST-M10x68	535916	LV.FO-60-14-AS-SST-M10x68	60	M10	8.5	98	100	68	30	21	50	18	14	14000	101	117
533031	LV.FO-60-14-SST-M10x98	535921	LV.FO-60-14-AS-SST-M10x98	60	M10	8.5	128	130	98	30	21	50	18	14	14000	115	131
533036	LV.FO-60-14-SST-M12x43	535926	LV.FO-60-14-AS-SST-M12x43	60	M12	8.5	73	75	43	30	21	50	18	14	14000	98	114
533041	LV.FO-60-14-SST-M12x68	535931	LV.FO-60-14-AS-SST-M12x68	60	M12	8.5	98	100	68	30	21	50	18	14	14000	116	132
533046	LV.FO-60-14-SST-M12x98	535936	LV.FO-60-14-AS-SST-M12x98	60	M12	8.5	128	130	98	30	21	50	18	14	14000	138	154
533047	LV.FO-60-14-SST-M14X68	535937	LV.FO-60-14-AS-SST-M14X68	60	M14	8.5	98	100	68	30	21	50	18	14	14000	139	155
533049	LV.FO-60-14-SST-M14X98	535939	LV.FO-60-14-AS-SST-M14X98	60	M14	8.5	128	130	98	30	21	50	18	14	14000	160	176
533050	LV.FO-60-14-SST-M14X148	535940	LV.FO-60-14-AS-SST-M14X148	60	M14	8.5	178	180	148	30	21	50	18	14	14000	243	259
533051	LV.FO-60-14-SST-M16x68	535941	LV.FO-60-14-AS-SST-M16x68	60	M16	8.5	98	100	68	30	21	50	18	16	14000	161	177
533056	LV.FO-60-14-SST-M16x108	535946	LV.FO-60-14-AS-SST-M16x108	60	M16	8.5	138	140	108	30	21	50	18	16	14000	215	231
533061	LV.FO-60-14-SST-M16x148	535951	LV.FO-60-14-AS-SST-M16x148	60	M16	8.5	178	180	148	30	21	50	18	16	14000	268	284
533066	LV.FO-60-14-SST-M16x168	535956	LV.FO-60-14-AS-SST-M16x168	60	M16	8.5	198	200	168	30	21	50	18	16	14000	295	311
533121	LV.FO-80-14-SST-M8x43	536121	LV.FO-80-14-AS-SST-M8x43	80	M8	10.5	74	76	43	31	22	70	25	14	16000	117	147
533125	LV.FO-80-14-SST-M8x68	536125	LV.FO-80-14-AS-SST-M8x68	80	M8	10.5	99	101	68	31	22	70	25	14	16000	129	159
533221	LV.FO-80-14-SST-M10x43	536221	LV.FO-80-14-AS-SST-M10x43	80	M10	10.5	74	76	43	31	22	70	25	14	16000	126	156
533225	LV.FO-80-14-SST-M10x68	536225	LV.FO-80-14-AS-SST-M10x68	80	M10	10.5	99	101	68	31	22	70	25	14	16000	139	169
533231	LV.FO-80-14-SST-M10x98	536231	LV.FO-80-14-AS-SST-M10x98	80	M10	10.5	129	131	98	31	22	70	25	14	16000	153	183
533321	LV.FO-80-14-SST-M12x43	536321	LV.FO-80-14-AS-SST-M12x43	80	M12	10.5	74	76	43	31	22	70	25	14	16000	136	166
533325	LV.FO-80-14-SST-M12x68	536325	LV.FO-80-14-AS-SST-M12x68	80	M12	10.5	99	101	68	31	22	70	25	14	16000	154	184
533331	LV.FO-80-14-SST-M12x98	536331	LV.FO-80-14-AS-SST-M12x98	80	M12	10.5	129	131	98	31	22	70	25	14	16000	176	206
533421	LV.FO-80-14-SST-M14X68	536421	LV.FO-80-14-AS-SST-M14X68	80	M14	10.5	99	101	68	31	22	70	25	14	16000	177	207
533431	LV.FO-80-14-SST-M14X98	536431	LV.FO-80-14-AS-SST-M14X98	80	M14	10.5	129	131	98	31	22	70	25	14	16000	198	228
533441	LV.FO-80-14-SST-M14X148	536441	LV.FO-80-14-AS-SST-M14X148	80	M14	10.5	179	181	148	31	22	70	25	14	16000	281	311
533521	LV.FO-80-14-SST-M16x68	536521	LV.FO-80-14-AS-SST-M16x68	80	M16	10.5	99	101	68	31	22	70	25	16	16000	199	229
533525	LV.FO-80-14-SST-M16x108	536525	LV.FO-80-14-AS-SST-M16x108	80	M16	10.5	139	141	108	31	22	70	25	16	16000	253	283
533541	LV.FO-80-14-SST-M16x148	536541	LV.FO-80-14-AS-SST-M16x148	80	M16	10.5	179	181	148	31	22	70	25	16	16000	306	336
533561	LV.FO-80-14-SST-M16x168	536561	LV.FO-80-14-AS-SST-M16x168	80	M16	10.5	199	201	168	31	22	70	25	16	16000	333	363

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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INOX STAINLESS STEEL · RoHS · PA · NBR · +100° -30°

Levelling elements for ground mounting

Technopolymer base, stainless steel stem

BASE

Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

STANDARD EXECUTIONS

AISI 304 stainless steel articulated and threaded stem with adjusting square.

- **LVQ.FO-SST**: base without no-slip disk.
- **LVQ.FO-AS-SST**: base with NBR rubber no-slip disk, hardness 70 Shore A, supplied assembled to the base.

GROUND MOUNTING

By means of two holes, supplied covered by a diaphragm (which can be easily removed by a metal tool), to avoid all unhealthy deposits of dirt and dust when only one hole is used (see Fig. 1).

FEATURES

The special knurling under the lower lip of the base provides excellent stability and grip when using the levelling element without no-slip disk even on surfaces that are not perfectly flat.
The particular assembling system of the no-slip disk to the base assures a perfect anchoring, preventing separation even in case of impact during transport or of adhesion (sticking) to the floor (see No-slip disks on page 1223).

ORDER INFORMATION

The levelling elements are supplied unassembled to make carriage and storage easier. The components (base and stem) are supplied in separate packing: less volume taken and better protection from scratches and dirt.
To order bases and stems separately, see:
table of the possible combinations Bases/Stems on page 1229.

ACCESSORIES ON REQUEST

AISI 304 stainless steel nut (see Nuts NT. on page 1223).

ELESA Original design

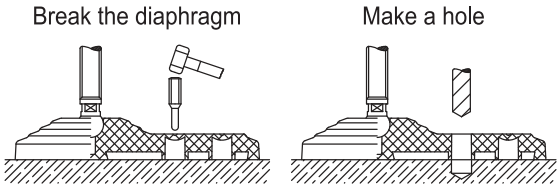

Fig.1

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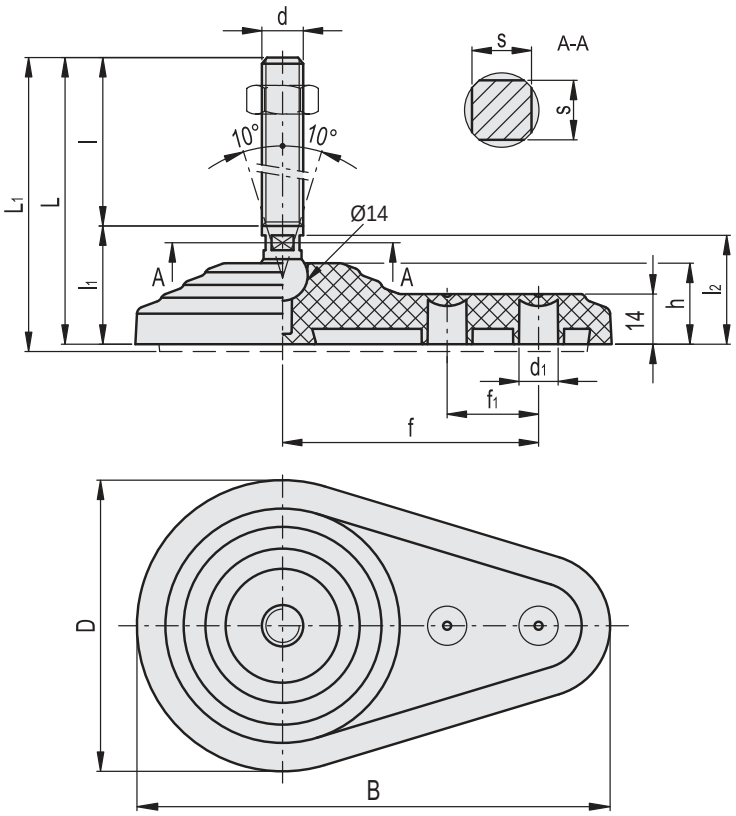
LVQ.FO-SST | Levelling elements for ground mounting



LVQ.FO-SST **LVQ.FO-AS-SST** **STAINLESS STEEL**

Code	Description	Code	Description	D	d	d1	L	L1#	l	l1	l2	h	B	f	f1	s	Max. limit static load* [N]	⚖	⚖ #
533901	LVQ.FO-60-14-SST-M16x68	536901	LVQ.FO-60-14-AS-SST-M16x68	60	M16	8.5	99	101	68	31	29.5	21	96.5	50	18	12	14000	144	160
533906	LVQ.FO-60-14-SST-M16x108	536906	LVQ.FO-60-14-AS-SST-M16x108	60	M16	8.5	139	141	108	31	29.5	21	96.5	50	18	12	14000	208	224
533911	LVQ.FO-60-14-SST-M16x148	536911	LVQ.FO-60-14-AS-SST-M16x148	60	M16	8.5	179	181	148	31	29.5	21	96.5	50	18	12	14000	272	288
533916	LVQ.FO-60-14-SST-M16x168	536916	LVQ.FO-60-14-AS-SST-M16x168	60	M16	8.5	199	201	168	31	29.5	21	96.5	50	18	12	14000	304	320
533921	LVQ.FO-60-14-SST-M20x110	536921	LVQ.FO-60-14-AS-SST-M20x110	60	M20	8.5	146	148	110	36	33.5	21	96.5	50	18	15	14000	308	324
533926	LVQ.FO-60-14-SST-M20x150	536926	LVQ.FO-60-14-AS-SST-M20x150	60	M20	8.5	186	188	150	36	33.5	21	96.5	50	18	15	14000	408	424
533931	LVQ.FO-60-14-SST-M20x170	536931	LVQ.FO-60-14-AS-SST-M20x170	60	M20	8.5	206	208	170	36	33.5	21	96.5	50	18	15	14000	458	474
533936	LVQ.FO-60-14-SST-M20x210	536936	LVQ.FO-60-14-AS-SST-M20x210	60	M20	8.5	246	248	210	36	33.5	21	96.5	50	18	15	14000	557	573
533941	LVQ.FO-60-14-SST-M24x110	536941	LVQ.FO-60-14-AS-SST-M24x110	60	M24	8.5	146	148	110	36	33.5	21	96.5	50	18	18	14000	415	431
533946	LVQ.FO-60-14-SST-M24x170	536946	LVQ.FO-60-14-AS-SST-M24x170	60	M24	8.5	206	208	170	36	33.5	21	96.5	50	18	18	14000	630	646
533951	LVQ.FO-60-14-SST-M24x210	536951	LVQ.FO-60-14-AS-SST-M24x210	60	M24	8.5	246	248	210	36	33.5	21	96.5	50	18	18	14000	774	790
534001	LVQ.FO-80-14-SST-M16x68	537001	LVQ.FO-80-14-AS-SST-M16x68	80	M16	10.5	100	102	68	32	30.5	22	130	70	25	12	16000	182	212
534003	LVQ.FO-80-14-SST-M16x108	537003	LVQ.FO-80-14-AS-SST-M16x108	80	M16	10.5	140	142	108	32	30.5	22	130	70	25	12	16000	246	276
534005	LVQ.FO-80-14-SST-M16x148	537005	LVQ.FO-80-14-AS-SST-M16x148	80	M16	10.5	180	182	148	32	30.5	22	130	70	25	12	16000	310	340
534007	LVQ.FO-80-14-SST-M16x168	537007	LVQ.FO-80-14-AS-SST-M16x168	80	M16	10.5	200	202	168	32	30.5	22	130	70	25	12	16000	342	372
534011	LVQ.FO-80-14-SST-M20x110	537011	LVQ.FO-80-14-AS-SST-M20x110	80	M20	10.5	147	149	110	37	34.5	22	130	70	25	15	16000	346	376
534013	LVQ.FO-80-14-SST-M20x150	537013	LVQ.FO-80-14-AS-SST-M20x150	80	M20	10.5	187	189	150	37	34.5	22	130	70	25	15	16000	446	476
534015	LVQ.FO-80-14-SST-M20x170	537015	LVQ.FO-80-14-AS-SST-M20x170	80	M20	10.5	207	209	170	37	34.5	22	130	70	25	15	16000	496	526
534017	LVQ.FO-80-14-SST-M20x210	537017	LVQ.FO-80-14-AS-SST-M20x210	80	M20	10.5	247	249	210	37	34.5	22	130	70	25	15	16000	595	625
534021	LVQ.FO-80-14-SST-M24x110	537021	LVQ.FO-80-14-AS-SST-M24x110	80	M24	10.5	147	149	110	37	34.5	22	130	70	25	18	16000	453	483
534023	LVQ.FO-80-14-SST-M24x170	537023	LVQ.FO-80-14-AS-SST-M24x170	80	M24	10.5	207	209	170	37	34.5	22	130	70	25	18	16000	668	698
534025	LVQ.FO-80-14-SST-M24x210	537025	LVQ.FO-80-14-AS-SST-M24x210	80	M24	10.5	247	249	210	37	34.5	22	130	70	25	18	16000	812	842

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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LV.A-125-ACV

RoHS PA NBR +100° -30°

Levelling elements

Technopolymer base, steel stem

ELESA Original design

BASE
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

ARTICULATED THROUGH STEM
Threaded zinc-plated steel with regulation hexagon.
Assembled to the base by means of zinc-plated steel set screw and washer.

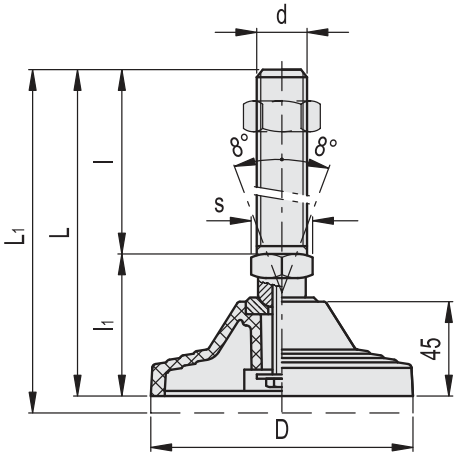
CUP WASHER FOR STEM BEARING
Glossy zinc-plated steel.

STANDARD EXECUTIONS
- **LV.A-ACV**: without no-slip disk.
- **LV.A-ACV-AS**: with NBR rubber no-slip disk, hardness 90 Shore A, supplied assembled with reinforced zinc-plated steel plate fixed by means of two screws.

FEATURES
The special knurling under the lower lip of the base provides excellent stability and grip when using the levelling element without no-slip disk even on surfaces that are not perfectly flat.
The components of the levelling elements (base and stem) are supplied already assembled.

ACCESSORIES ON REQUEST
Zinc-plated steel nut (see Nuts NT. on page 1223).

SPECIAL EXECUTIONS ON REQUEST
AISI 304 stainless steel stems.



LV.A-ACV **LV.A-ACV-AS**

Code	Description	Code	Description	D	d	L	L1#	l	l1	s	Max. limit static load* [N]	⚖	⚖ #
306921	LV.A-125-ACV-M20x136	310921	LV.A-125-ACV-AS-M20x136	125	M20	200	210	136	64	24	40000	580	830
306925	LV.A-125-ACV-M20x186	310925	LV.A-125-ACV-AS-M20x186	125	M20	250	260	186	64	24	40000	690	940
306931	LV.A-125-ACV-M24x136	310931	LV.A-125-ACV-AS-M24x136	125	M24	200	210	136	64	24	40000	730	980
306935	LV.A-125-ACV-M24x186	310935	LV.A-125-ACV-AS-M24x186	125	M24	250	260	186	64	24	40000	840	1090
306941	LV.A-125-ACV-M30x136	310941	LV.A-125-ACV-AS-M30x136	125	M30	200	210	136	64	30	40000	940	1190
306945	LV.A-125-ACV-M30x186	310945	LV.A-125-ACV-AS-M30x186	125	M30	250	260	186	64	30	40000	1030	1280

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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LV.F-125-ACV

RoHS PA NBR +100° -30°

Levelling elements for ground mounting

Technopolymer base, steel stem

ELESA Original design

BASE
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

ARTICULATED THROUGH STEM
Threaded zinc-plated steel with regulation hexagon.
Assembled to the base by means of zinc-plated steel set screw and washer.

CUP WASHER FOR STEM BEARING
Glossy zinc-plated steel.

STANDARD EXECUTIONS
- **LV.F-ACV**: without no-slip disk.
- **LV.F-ACV-AS**: with NBR rubber no-slip disk, hardness 90 Shore A, supplied assembled, reinforced with zinc-plated steel plate, fixed by means of two screws.

GROUND MOUNTING
By means of two holes at 180°, supplied covered by a diaphragm (which can be easily removed by a metal tool), to avoid all unhealthy deposits of dirt and dust when the ground mounting is not required (see Fig. 1).

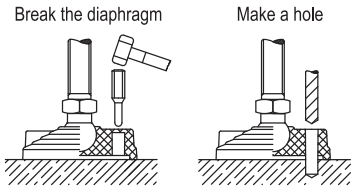
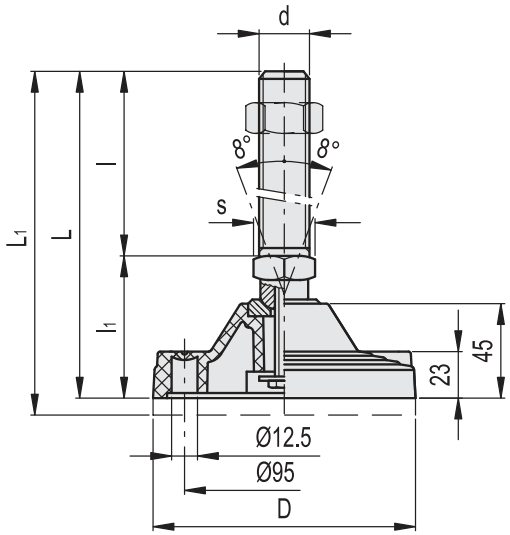


Fig.1

FEATURES
The special knurling under the lower lip of the base provides excellent stability and grip when using the levelling element without no-slip disk even on surfaces that are not perfectly flat.
The components of the levelling elements (base and stem) are supplied already assembled.

ACCESSORIES ON REQUEST
Zinc-plated steel nut (see Nuts NT. on page 1223).

SPECIAL EXECUTIONS ON REQUEST
AISI 304 stainless steel stems.



LV.F-ACV **LV.F-ACV-AS**

Code	Description	Code	Description	D	d	L	L1#	l	l1	s	Max. limit static load* [N]	⚖	⚖ #
313921	LV.F-125-ACV-M20x136	316921	LV.F-125-ACV-AS-M20x136	125	M20	200	210	136	64	24	40000	585	835
313925	LV.F-125-ACV-M20x186	316925	LV.F-125-ACV-AS-M20x186	125	M20	250	260	186	64	24	40000	695	945
313931	LV.F-125-ACV-M24x136	316931	LV.F-125-ACV-AS-M24x136	125	M24	200	210	136	64	24	40000	735	985
313935	LV.F-125-ACV-M24x186	316935	LV.F-125-ACV-AS-M24x186	125	M24	250	260	186	64	24	40000	845	1095
313941	LV.F-125-ACV-M30x136	316941	LV.F-125-ACV-AS-M30x136	125	M30	200	210	136	64	30	40000	945	1195
313945	LV.F-125-ACV-M30x186	316945	LV.F-125-ACV-AS-M30x186	125	M30	250	260	186	64	30	40000	1035	1285

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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LV.A-125-APS

RoHS PA NBR +100° -30°

Levelling elements

Technopolymer base, steel stem

BASE
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

THROUGH STEM
Threaded zinc-plated steel with regulation hexagon, black-oxide steel retaining ring and zinc-plated steel plain washer.

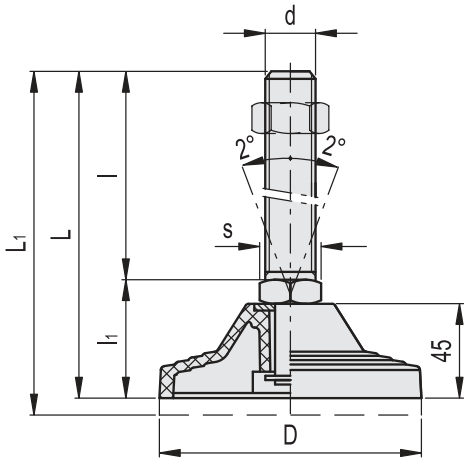
STANDARD EXECUTIONS
- **LV.A-APS**: without no-slip disk.
- **LV.A-APS-AS**: with NBR rubber no-slip disk, hardness 90 Shore A, supplied assembled, reinforced with zinc-plated steel plate, fixed by means of two screws.

FEATURES
The special knurling under the lower lip of the base provides excellent stability and grip when using the levelling element without no-slip disk even on surfaces that are not perfectly flat.
The components of the levelling elements (base and stem) are supplied already assembled.

ACCESSORIES ON REQUEST
Zinc-plated steel nut (see Nuts NT. on page 1223).

SPECIAL EXECUTIONS ON REQUEST
AISI 304 stainless steel stems.

ELESA Original design



LV.A-APS **LV.A-APS-AS**

Code	Description	Code	Description	D	d	L	L1#	l	l1	s	Max. limit static load* [N]	⚖	⚖ #
306961	LV.A-125-APS-M20x95	310961	LV.A-125-APS-AS-M20x95	125	M20	150	160	95	55	24	40000	465	715
306965	LV.A-125-APS-M20x155	310965	LV.A-125-APS-AS-M20x155	125	M20	210	220	155	55	24	40000	585	835
306971	LV.A-125-APS-M24x95	310971	LV.A-125-APS-AS-M24x95	125	M24	150	160	95	55	24	40000	620	870
306975	LV.A-125-APS-M24x155	310975	LV.A-125-APS-AS-M24x155	125	M24	210	220	155	55	24	40000	735	985
306985	LV.A-125-APS-M30x155	310985	LV.A-125-APS-AS-M30x155	125	M30	210	220	155	55	30	40000	925	1175

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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LV.F-125-APS

Levelling elements for ground mounting

Technopolymer base, steel stem

BASE
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

THROUGH STEM
Threaded zinc-plated steel with regulation hexagon.

STANDARD EXECUTIONS
- **LV.F-APS**: without no-slip disk.
- **LV.F-APS-AS**: with NBR rubber no-slip disk, hardness 90 Shore A, supplied assembled, reinforced with zinc-plated steel plate, fixed by means of two screws.

GROUND MOUNTING
By means of two holes at 180°, supplied covered by a diaphragm (which can be easily removed by a metal tool), to avoid all unhealthy deposits of dirt and dust when the ground mounting is not required (see Fig. 1).

FEATURES
The special knurling under the lower lip of the base provides excellent stability and grip when using the levelling element without no-slip disk even on surfaces that are not perfectly flat.
The components of the levelling elements (base and stem) are supplied already assembled.

ACCESSORIES ON REQUEST
Zinc-plated steel nut (see Nuts NT. on page 1223).

SPECIAL EXECUTIONS ON REQUEST
AISI 304 stainless steel stems.

ELESA Original design

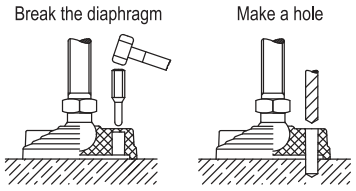
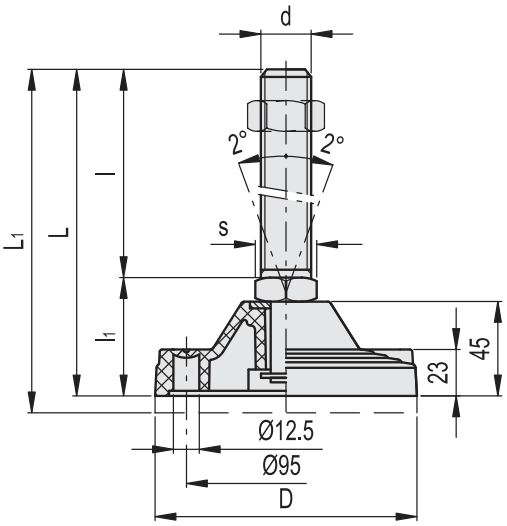


Fig.1



LV.F-APS **LV.F-APS-AS**

Code	Description	Code	Description	D	d	L	L1#	l	l1	s	Max. limit static load* [N]	⚖	⚖ #
313961	LV.F-125-APS-M20x95	316961	LV.F-125-APS-AS-M20x95	125	M20	150	160	95	55	24	40000	470	720
313965	LV.F-125-APS-M20x155	316965	LV.F-125-APS-AS-M20x155	125	M20	210	220	155	55	24	40000	590	840
313971	LV.F-125-APS-M24x95	316971	LV.F-125-APS-AS-M24x95	125	M24	150	160	95	55	24	40000	625	875
313975	LV.F-125-APS-M24x155	316975	LV.F-125-APS-AS-M24x155	125	M24	210	220	155	55	24	40000	740	990
313985	LV.F-125-APS-M30x155	316985	LV.F-125-APS-AS-M30x155	125	M30	210	220	155	55	30	40000	930	1180

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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LV.A-ELK

RoHS PA NBR +100° -30°

Levelling elements

Technopolymer base and knob, steel stem

BASE
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

ARTICULATED STEM AND BUILT-IN REGULATION KNOB
Threaded zinc-plated steel stem. Regulation knob in technopolymer type ELK.
Black-oxide steel washer and retaining screw (M4x10).

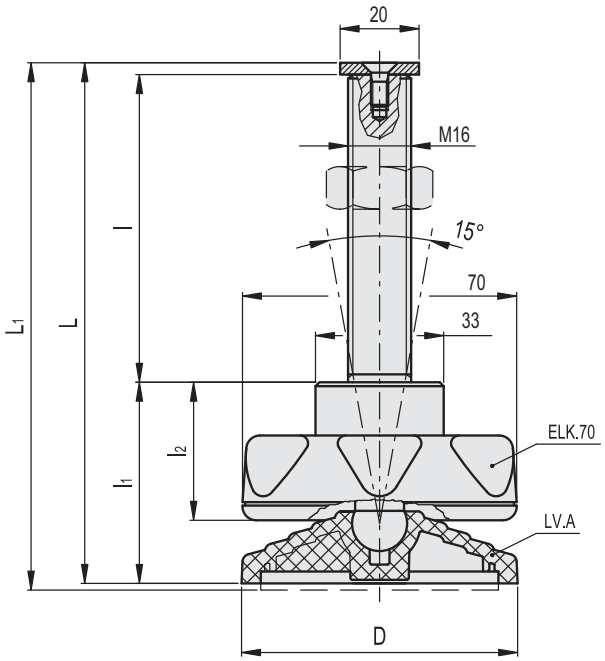
STANDARD EXECUTIONS
- **LV.A-ELK**: without no-slip disk.
- **LV.A-AS-ELK**: with NBR rubber no-slip disk, hardness 70 Shore A, supplied assembled to the base.

FEATURES
The special knurling under the lower lip of the base provides excellent stability and grip when using the levelling element without no-slip disk even on surfaces that are not perfectly flat.
The particular assembling system of the no-slip disk to the base assures a perfect anchoring, preventing separation even in case of impact during transport or of adhesion (sticking) to the floor (see No-slip disk on page 1223).
ELK. built-in regulation knob enables the operator to adjust manually the stem without the use of tools.
The components of the levelling elements (base and stem) are supplied already assembled.

NOTE
The threaded stem with built-in knob SM-14-M16x78-ELK (code 302581) can be assembled on other bases with hole for articulation with diameter 14.

ACCESSORIES ON REQUEST
Zinc-plated steel nut (see Nuts NT. on page 1223).

ELESA Original design



LV.A-ELK **LV.A-AS-ELK**

Code	Description	Code	Description	D	L	L1#	l	l1	l2	Articulation Ø	Max. limit static load* [N]	⚖	⚖ #
304118	LV.A-70-14-M16x78-ELK	308118	LV.A-70-14-AS-M16x78-ELK	70	132	135	78	51	35	14	14000	332	352
304581	LV.A-80-14-M16x78-ELK	308581	LV.A-80-14-AS-M16x78-ELK	80	137	140	78	56	35	14	14000	330	356

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

Data with no-slip disk mounted.

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Nuts for levelling elements

Steel or stainless steel

STANDARD EXECUTIONS

- **NT**: zinc-plated steel.
- **NT-SST**: AISI 304 stainless steel.

CONFORMITY

UNI 5588 DIN 934.

NT.

Code	Description	⚖
301015	NT-M8	16
301021	NT-M10	18
301025	NT-M12	20
301031	NT-M14	24
301035	NT-M16	30
301045	NT-M20	55
301055	NT-M24	93
301065	NT-M30	105

NT-SST STAINLESS STEEL

Code	Description	⚖
321015	NT-SST-M8	16
321021	NT-SST-M10	18
321025	NT-SST-M12	20
321031	NT-SST-M14	24
321035	NT-SST-M16	30
321045	NT-SST-M20	55
321055	NT-SST-M24	93

No-slip disks for levelling elements

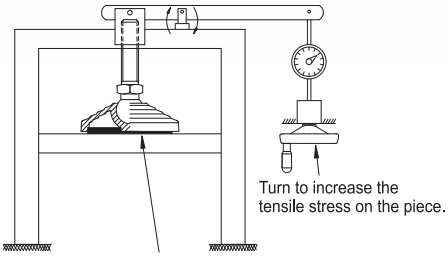
It is extremely important that the no-slip disk must not detach from the base of the levelling element.
There are typical situations in which the conditions for the detachment of the no-slip disk could take place:

- case of eventual "sticking" of the no-slip disk to the floor while lifting the machinery for moving;
- case of side impacts against the levelling element with the no-slip disk during machinery transport.

The assembling system created by Elesa+Ganter consists of an anchoring in the central part of the disk, besides a particular slot along the whole rim profile.
Tests of separation, carried out in our labs with suitable equipment simulating real conditions (Fig. 1 and Fig. 2), have given the following results, compared with the current anchoring systems:

- detachment resistance in cases of adhesion (sticking) of the no-slip disk to the floor: fourfold increased;
- detachment resistance in case of side impacts: tenfold increased.

The no-slip disks are supplied assembled to their plastic bases.



No-slip disk glued to the plate of the testing device

Fig.1
Test of no-slip disk separation with a no-slip disk "stuck" to the floor (case of machinery lifting for moving to another location)

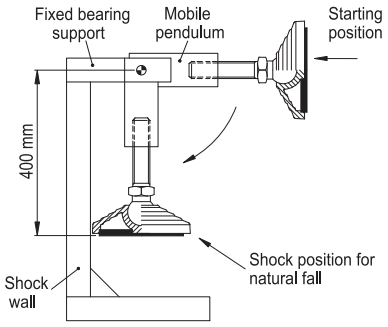


Fig.2
Test of no-slip disk separation for transversal shock (case of machinery transport)

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RoHS PA NBR +100° -30°

Levelling element bases

Technopolymer

MATERIAL

Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

BASES WITHOUT NO-SLIP DISK

- **LS.A** (D = 25 - 32 - 40 - 50 mm): base without ground mounting.
- **LV.A** (D = 60 - 70 - 80 - 100 - 125 mm): base without ground mounting.
- **LV.F** (D = 80 - 100 - 125 mm): base with two holes at 180° for ground mounting, supplied covered by a diaphragm (which can be easily removed by a metal tool) to avoid all unhealthy deposits of dirt and dust when only one hole is used (see Fig.1).
- **LV.FO** (D = 60 - 80 mm): base with two holes for ground mounting, supplied covered by a diaphragm (which can be easily removed by a metal tool) to avoid all unhealthy deposits of dirt and dust when only one hole is used (see Fig.1).

BASES WITH NO-SLIP DISK ASSEMBLED

NBR rubber no-slip disk, hardness 70 Shore A.
The particular assembling system of the no-slip disk to the base assures a perfect anchoring, preventing separation even in case of impact during transport or of adhesion (sticking) to the floor (see No-slip disks on page 1223).

- **LS.A-AS** (D = 25 - 32 - 40 - 50 mm): base without ground mounting.
- **LV.A-AS** (D = 60 - 70 - 80 - 100 - 125 mm): base without ground mounting.
- **LV.F-AS** (D = 80 - 100 - 125 mm): base with two holes at 180° for ground mounting, supplied covered by a diaphragm (which can be easily removed by a metal tool) to avoid all unhealthy deposits of dirt and dust when one only hole is used (see Fig.1).
- **LV.FO-AS** (D = 60 - 80 mm): base with two holes for ground mounting, supplied covered by a diaphragm (which can be easily removed by a metal tool) to avoid all unhealthy deposits of dirt and dust when only one hole is used (see Fig.1).

NOTE

To choose the stem see:
tables of the possible combinations Bases/Stems on page 1229.

SPECIAL EXECUTIONS ON REQUEST

Polypropylene based (PP) technopolymer bases. Max. limit static load lower than the table data.

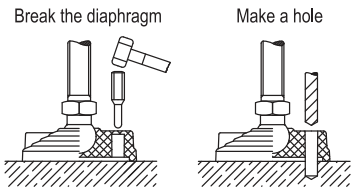

Fig.1

ELESA Original design

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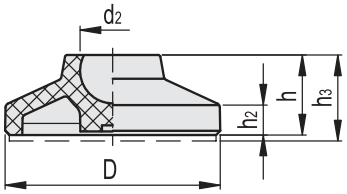
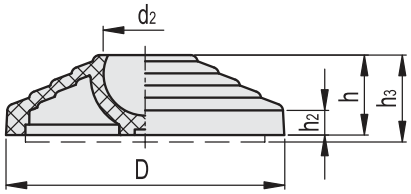
BASE LS.A - LV.A - LV.F - LV.FO | Levelling element bases

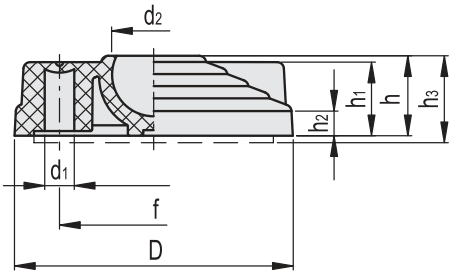
LS.A
LS.A-AS



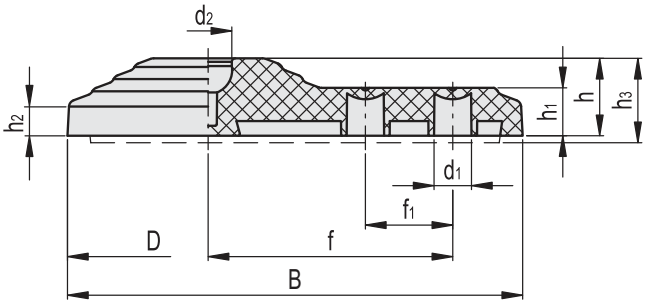
LV.A
LV.A-AS



LV.F
LV.F-AS



LV.FO
LV.FO-AS



Code	Description	Code	Description	D	d1	d2	h	h1	h2	h3#	B	f	f1	Ground mounting	Max. limit static load* [N]	⚖	⚖ #
340119	LS.A-25-8.5	340219	LS.A-25-8.5-AS	25	-	8.5	12	-	4	15	-	-	-	-	5000	4	6
340121	LS.A-25-14	340221	LS.A-25-14-AS	25	-	14	12	-	4	15	-	-	-	-	5000	4	6
340123	LS.A-32-8.5	340223	LS.A-32-8.5-AS	32	-	8.5	15	-	5	18	-	-	-	-	6000	8	12
340125	LS.A-32-14	340225	LS.A-32-14-AS	32	-	14	15	-	5	18	-	-	-	-	7000	8	12
340129	LS.A-40-8.5	340229	LS.A-40-8.5-AS	40	-	8.5	17	-	5.5	20	-	-	-	-	7000	13	20
340131	LS.A-40-14	340231	LS.A-40-14-AS	40	-	14	17	-	5.5	20	-	-	-	-	10000	13	20
340133	LS.A-50-8.5	340233	LS.A-50-8.5-AS	50	-	8.5	19	-	6.5	22	-	-	-	-	7000	19	31
340135	LS.A-50-14	340235	LS.A-50-14-AS	50	-	14	19	-	6.5	22	-	-	-	-	10000	19	31
301241	LV.A-60-14	301741	LV.A-60-14-AS	60	-	14	24	-	9	27	-	-	-	-	14000	32	51
301242	LV.A-60-24	301742	LV.A-60-24-AS	60	-	24	24	-	9	27	-	-	-	-	18000	29	48
301246	LV.A-70-14	301746	LV.A-70-14-AS	70	-	14	19	-	7	22	-	-	-	-	14000	30	50
301251	LV.A-80-14	301751	LV.A-80-14-AS	80	-	14	24	-	9	27	-	-	-	-	16000	53	79
301252	LV.A-80-24	301752	LV.A-80-24-AS	80	-	24	24	-	9	27	-	-	-	-	18000	49	75
301261	LV.A-100-14	301761	LV.A-100-14-AS	100	-	14	24	-	9	27	-	-	-	-	18000	82	136
301262	LV.A-100-24	301762	LV.A-100-24-AS	100	-	24	24	-	9	27	-	-	-	-	25000	81	135
301272	LV.A-125-24	301772	LV.A-125-24-AS	125	-	24	46	-	15	49	-	-	-	-	28000	190	315
301331	LV.F-80-14	301831	LV.F-80-14-AS	80	8.5	14	24	23	9	27	-	54	-	•	16000	55	81
301332	LV.F-80-24	301832	LV.F-80-24-AS	80	8.5	24	24	23	9	27	-	54	-	•	18000	79	75
301341	LV.F-100-14	301841	LV.F-100-14-AS	100	12.5	14	24	23	9	27	-	70	-	•	18000	85	139
301342	LV.F-100-24	301842	LV.F-100-24-AS	100	12.5	24	24	23	9	27	-	70	-	•	25000	85	139
301352	LV.F-125-24	301852	LV.F-125-24-AS	125	12.5	24	46	23	15	49	-	95	-	•	28000	200	325
301421	LV.FO-60-14	301921	LV.FO-60-14-AS	60	8.5	14	21	14	9	23	96.5	50	18	•	14000	48	64
301431	LV.FO-80-14	301931	LV.FO-80-14-AS	80	10.5	14	22	14	9	24	130	70	25	•	16000	86	116

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.
# Data with no-slip disk mounted.

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Levelling element bases

ESD conductive technopolymer

MATERIAL

Glass-fibre reinforced polyamide based (PA) special conductive technopolymer, black colour, matte finish.
Surface resistivity = 10^3 Ω (ASTM D257 measuring method).
Volume resistivity = 10^3 Ωcm (ASTM D257 measuring method).

BASES WITHOUT NO-SLIP DISK

- **LV.A-ESD-C**: without ground mounting.
- **LV.F-ESD-C**: with two holes at 180° for ground mounting, supplied covered by a breakable plastic diaphragm (which can be easily removed by a metal tool) to avoid all unhealthy deposits of dirt and dust when the ground mounting is not required (see Fig.1).

BASES WITHOUT NO-SLIP DISK

NBR rubber no-slip disk, hardness 70 Shore A, supplied assembled to the base.
Surface resistivity = 10^3 Ω (ASTM D991 measuring method).
Volume resistivity = 10^3 Ωcm (ASTM D991 measuring method).
The particular assembling system of the no-slip disk to the base assures a perfect anchoring, preventing separation even in case of impact during transport or of adhesion (sticking) to the floor (see No-slip disks on page 1223).

- **LV.A-AS-ESD-C**: without ground mounting.
- **LV.F-AS-ESD-C**: with two holes at 180° for ground mounting, supplied covered by a breakable plastic diaphragm (which can be easily removed by a metal tool) to avoid all unhealthy deposits of dirt and dust when the ground mounting is not required (see Fig.1).

NOTE

To choose the stem see:
tables of the possible combinations Bases/Stems on page 1229.

ELESA Original design

FEATURES AND APPLICATIONS

The special conductive technopolymer (ESD-C Electrostatic Discharge Conductive) prevents the accumulation of electrostatic charge.
The bases are suitable for "ESD PROTECTED AREA" (EPA) where components, which are susceptible to electrostatic discharges, are handled.
The (ESD-C) indelibly printed mark on the surface of the levelling elements bases identifies the particular conductive features of the material according to EN 100015/1 and IEC 61340-5-1.
The special knurling under the lower lip of the base provides excellent stability and grip when using the levelling element without no-slip disk even on surfaces that are not perfectly flat.

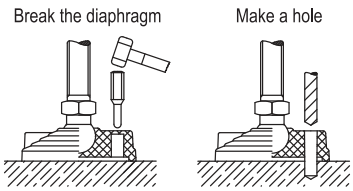
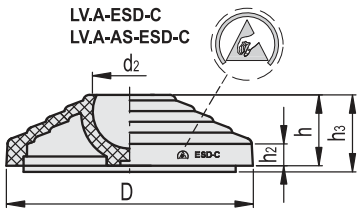
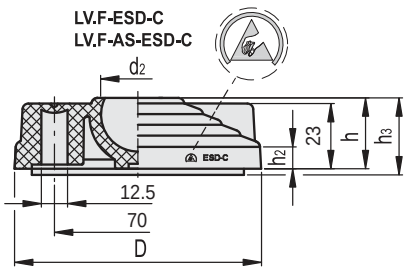


Fig.1





Code	Description	Code	Description	D	d2	h	h2	h3#	Max. limit static load* [N]	⚖	⚖ #
301241-ESD	LV.A-60-14-ESD-C	301741-ESD	LV.A-60-14-AS-ESD-C	60	14	24	9	27	14000	32	51
301242-ESD	LV.A-60-24-ESD-C	301742-ESD	LV.A-60-24-AS-ESD-C	60	24	24	9	27	18000	29	48
301246-ESD	LV.A-70-14-ESD-C	301746-ESD	LV.A-70-14-AS-ESD-C	70	14	19	7	22	14000	30	50
301251-ESD	LV.A-80-14-ESD-C	301751-ESD	LV.A-80-14-AS-ESD-C	80	14	24	9	27	16000	53	79
301252-ESD	LV.A-80-24-ESD-C	301752-ESD	LV.A-80-24-AS-ESD-C	80	24	24	9	27	18000	49	75
301261-ESD	LV.A-100-14-ESD-C	301761-ESD	LV.A-100-14-AS-ESD-C	100	14	24	9	27	18000	82	136
301262-ESD	LV.A-100-24-ESD-C	301762-ESD	LV.A-100-24-AS-ESD-C	100	24	24	9	27	25000	81	135
301272-ESD	LV.A-125-24-ESD-C	301772-ESD	LV.A-125-24-AS-ESD-C	125	24	46	15	49	28000	190	315
301341-ESD	LV.F-100-14-ESD-C	301841-ESD	LV.F-100-14-AS-ESD-C	100	14	24	9	27	18000	85	139

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.
# Data with no-slip disk mounted.

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Stems for levelling elements

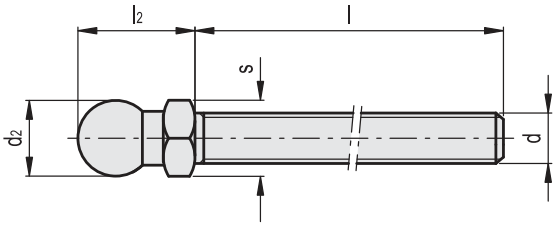
Steel or stainless steel

STANDARD EXECUTIONS

- **SM**: zinc-plated steel spheric articulated and threaded stem with regulation hexagon.
- **SM-SST**: AISI 304 stainless steel spheric articulated and threaded stem with regulation hexagon.

NOTE

To choose the base see:
table of the possible combinations Bases/Stems on page 1229.
The stems are usually supplied in a packing of four pieces compacted by means of a shrink film to avoid any damaging movement during transport.
For big quantities, the stems are supplied in wooden boxes and are placed in order, to avoid any damaging movement during transport.



SM.

Code	Description	d	l	l2	d2	s	⚖
302121	SM-14-M8x43	M8	43	19.5	13.9	14	30
302125	SM-14-M8x68	M8	68	19.5	13.9	14	42
302221	SM-14-M10x43	M10	43	19.5	13.9	14	39
302225	SM-14-M10x68	M10	68	19.5	13.9	14	51
302231	SM-14-M10x98	M10	98	19.5	13.9	14	65
302321	SM-14-M12x43	M12	43	19.5	13.9	14	49
302325	SM-14-M12x68	M12	68	19.5	13.9	14	66
302331	SM-14-M12x98	M12	98	19.5	13.9	14	87
302421	SM-14-M14x68	M14	68	19.5	13.9	14	88
302431	SM-14-M14x98	M14	98	19.5	13.9	14	109
302441	SM-14-M14x148	M14	148	19.5	13.9	14	192
302521	SM-14-M16x68	M16	68	19.5	13.9	16	110
302525	SM-14-M16x108	M16	108	19.5	13.9	16	162
302541	SM-14-M16x148	M16	148	19.5	13.9	16	214
302561	SM-14-M16x168	M16	168	19.5	13.9	16	240
302621	SM-24-M16x58	M16	58	37	23.9	24	176
302625	SM-24-M16x98	M16	98	37	23.9	24	227
302641	SM-24-M16x138	M16	138	37	23.9	24	277
302661	SM-24-M16x158	M16	158	37	23.9	24	304
302725	SM-24-M20x98	M20	98	37	23.9	24	297
302741	SM-24-M20x138	M20	138	37	23.9	24	376
302761	SM-24-M20x158	M20	158	37	23.9	24	415
302781	SM-24-M20x198	M20	198	37	23.9	24	498
302825	SM-24-M24x98	M24	98	37	23.9	24	395
302861	SM-24-M24x158	M24	158	37	23.9	24	567
302881	SM-24-M24x198	M24	198	37	23.9	24	685

SM-SST **STAINLESS STEEL**

Code	Description	⚖
322121	SM-14-SST-M8x43	31
322125	SM-14-SST-M8x68	43
322221	SM-14-SST-M10x43	40
322225	SM-14-SST-M10x68	53
322231	SM-14-SST-M10x98	67
322321	SM-14-SST-M12x43	50
322325	SM-14-SST-M12x68	68
322331	SM-14-SST-M12x98	90
322421	SM-14-SST-M14x68	91
322431	SM-14-SST-M14x98	112
322441	SM-14-SST-M14x148	195
322521	SM-14-SST-M16x68	113
322525	SM-14-SST-M16x108	167
322541	SM-14-SST-M16x148	220
322561	SM-14-SST-M16x168	247
322621	SM-24-SST-M16x58	181
322625	SM-24-SST-M16x98	234
322641	SM-24-SST-M16x138	285
322661	SM-24-SST-M16x158	313
322725	SM-24-SST-M20x98	306
322741	SM-24-SST-M20x138	387
322761	SM-24-SST-M20x158	427
322781	SM-24-SST-M20x198	513
322825	SM-24-SST-M24x98	407
322861	SM-24-SST-M24x158	584
322881	SM-24-SST-M24x198	706

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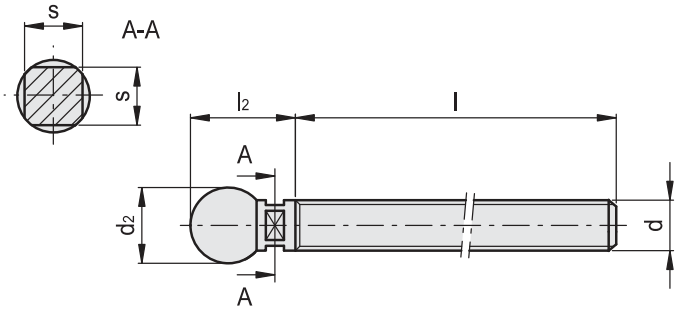
Stems for levelling elements

Stainless steel

SPHERIC ARTICULATED AND THREADED STEM WITH ADJUSTING SQUARE
AISI 304 stainless steel

NOTE
To choose the base see:
table of the possible combinations Bases/Stems on page 1229.
The stems are usually supplied in a packing of four pieces compacted by means of a shrink film to avoid any damaging movement during transport.
For big quantities, the stems are supplied in wooden boxes and are placed in order, to avoid any damaging movement during transport.



STAINLESS STEEL

Code	Description	d	l	l2	d2	s	⚖
322891	SMQ-8.5-SST-M8x48	M8	48	15	8.5	7	19
322894	SMQ-8.5-SST-M8x73	M8	73	15	8.5	7	29
322901	SMQ-8.5-SST-M10x48	M10	48	15	8.5	7	26
322904	SMQ-8.5-SST-M10x73	M10	73	15	8.5	7	42
322907	SMQ-8.5-SST-M10x103	M10	103	15	8.5	7	60
322911	SMQ-8.5-SST-M12x48	M12	48	15	8.5	9	37
322914	SMQ-8.5-SST-M12x73	M12	73	15	8.5	9	59
322917	SMQ-8.5-SST-M12x103	M12	103	15	8.5	9	90
322971	SMQ-14-SST-M16x68	M16	68	19.7	13.9	12	96
322974	SMQ-14-SST-M16x108	M16	108	19.7	13.9	12	160
322977	SMQ-14-SST-M16x148	M16	148	19.7	13.9	12	224
322979	SMQ-14-SST-M16x168	M16	168	19.7	13.9	12	256
322981	SMQ-14-SST-M20x110	M20	110	24.7	13.9	15	260
322984	SMQ-14-SST-M20x150	M20	150	24.7	13.9	15	360
322987	SMQ-14-SST-M20x170	M20	170	24.7	13.9	15	410
322989	SMQ-14-SST-M20x210	M20	210	24.7	13.9	15	509
322991	SMQ-14-SST-M24x110	M24	110	24.7	13.9	18	367
322994	SMQ-14-SST-M24x170	M24	170	24.7	13.9	18	582
322997	SMQ-14-SST-M24x210	M24	210	24.7	13.9	18	726

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Tables of the possible combinations Bases / Stems

Stems	d2	dxl	Max. limit static load	Base LS.A d2 Ø 8.5 D 25	32	40	50	5000	6000	7000	7000
SM. zinc-plated steel stem	Ø14	M8x43÷68						•	•	•	•
		M10x43÷68÷98						•	•	•	•
		M12x43÷68÷96						•	•	•	•
		M14x68÷98÷148						•	•	•	•
		M16x68÷108÷148÷168						•	•	•	•
	Ø24	M16x58÷98÷138÷158									
		M20x98÷138÷158÷158									
		M24x98÷158÷198									

Stems	d2	dxl	Max. limit static load	Base LS.A d2 Ø14 D 25	32	40	50	7000	10000	12000	12000
SM. zinc-plated steel stem	Ø14	M8x43÷68						•	•	•	•
		M10x43÷68÷98						•	•	•	•
		M12x43÷68÷96						•	•	•	•
		M14x68÷98÷148						•	•	•	•
		M16x68÷108÷148÷168						•	•	•	•
	Ø24	M16x58÷98÷138÷158									
		M20x98÷138÷158÷158									
		M24x98÷158÷198									

Stems	d2	dxl	Max. limit static load	Base LV.A d2 Ø14 D 60	70	80	100	18000	18000	20000	18000
SM. zinc-plated steel stem	Ø14	M8x43÷68						•	•	•	•
		M10x43÷68÷98						•	•	•	•
		M12x43÷68÷96						•	•	•	•
		M14x68÷98÷148						•	•	•	•
		M16x68÷108÷148÷168						•	•	•	•
	Ø24	M16x58÷98÷138÷158									
		M20x98÷138÷158÷158									
		M24x98÷158÷198									

Stems	d2	dxl	Max. limit static load	Base LV.A d2 Ø24 D 60	80	100	125	23000	23000	28000	30000
SM. zinc-plated steel stem	Ø14	M8x43÷68						•	•	•	•
		M10x43÷68÷98						•	•	•	•
		M12x43÷68÷96						•	•	•	•
		M14x68÷98÷148						•	•	•	•
		M16x68÷108÷148÷168						•	•	•	•
	Ø24	M16x58÷98÷138÷158						•	•	•	•
		M20x98÷138÷158÷158						•	•	•	•
		M24x98÷158÷198						•	•	•	•

Stems	d2	dxl	Max. limit static load	Base LV.F d2 Ø14 D 80	100	Base LV.F d2 Ø24 D 80	100	125	Base LV.FO d2 Ø14 D 60	80
SM. zinc-plated steel stem	Ø14	M8x43÷68		•	•				•	•
		M10x43÷68÷98		•	•				•	•
		M12x43÷68÷96		•	•				•	•
		M14x68÷98÷148		•	•				•	•
		M16x68÷108÷148÷168		•	•				•	•
	Ø24	M16x58÷98÷138÷158				•	•	•		
		M20x98÷138÷158÷158				•	•	•		
		M24x98÷158÷198				•	•	•		

STAINLESS STEEL

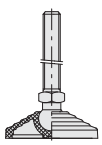
Stems	d2	dxl	Max. limit static load	Base LS.A d2 Ø14 D 25	32	40	50	7000	10000	12000	12000
SM-SST stainless steel stem	Ø14	M8x43÷68						•	•	•	•
		M10x43÷68÷98						•	•	•	•
		M12x43÷68÷98						•	•	•	•
		M14x68÷98÷148						•	•	•	•
		M16x68÷108÷148÷168						•	•	•	•
	Ø24	M16x58÷98÷138÷158									
		M20x98÷138÷158÷198									
		M24x98÷158÷198									
SMQ-SST stainless steel stem	Ø8.5	M8x48÷73		•	•	•	•				
		M10x48÷73÷103		•	•	•	•				
		M12x48÷73÷103		•	•	•	•				
	Ø14	M16x68÷108÷148÷168						•	•	•	•
		M20x110÷150÷170÷210						•	•	•	•
		M24x110÷170÷210						•	•	•	•

Stems	d2	dxl	Max. limit static load	Base LV.A d2 Ø14 D 60	70	80	100	18000	18000	20000	18000
SM-SST stainless steel stem	Ø14	M8x43÷68						•	•	•	•
		M10x43÷68÷98						•	•	•	•
		M12x43÷68÷98						•	•	•	•
		M14x68÷98÷148						•	•	•	•
		M16x68÷108÷148÷168						•	•	•	•
	Ø24	M16x58÷98÷138÷158									
		M20x98÷138÷158÷198									
		M24x98÷158÷198									
SMQ-SST stainless steel stem	Ø8.5	M8x48÷73									
		M10x48÷73÷103									
		M12x48÷73÷103									
	Ø14	M16x68÷108÷148÷168		•	•	•	•				
		M20x110÷150÷170÷210		•	•	•	•				
		M24x110÷170÷210		•	•	•	•				

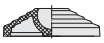
Stems	d2	dxl	Max. limit static load	Base LV.A d2 Ø24 D 60	80	100	125	23000	23000	28000	30000
SM-SST stainless steel stem	Ø14	M8x43÷68						•	•	•	•
		M10x43÷68÷98						•	•	•	•
		M12x43÷68÷98						•	•	•	•
		M14x68÷98÷148						•	•	•	•
		M16x68÷108÷148÷168						•	•	•	•
	Ø24	M16x58÷98÷138÷158									
		M20x98÷138÷158÷198									
		M24x98÷158÷198									
SMQ-SST stainless steel stem	Ø8.5	M8x48÷73									
		M10x48÷73÷103									
		M12x48÷73÷103									
	Ø14	M16x68÷108÷148÷168						•	•	•	•
		M20x110÷150÷170÷210						•	•	•	•
		M24x110÷170÷210						•	•	•	•

Stems	d2	dxl	Max. limit static load	Base LV.F d2 Ø14 D 80	100	Base LV.F d2 Ø24 D 80	100	125	Base LV.FO d2 Ø14 D 60	80
SM-SST stainless steel stem	Ø14	M8x43÷68		•	•				•	•
		M10x43÷68÷98		•	•				•	•
		M12x43÷68÷98		•	•				•	•
		M14x68÷98÷148		•	•				•	•
		M16x68÷108÷148÷168		•	•				•	•
	Ø24	M16x58÷98÷138÷158				•	•	•		
		M20x98÷138÷158÷198				•	•	•		
		M24x98÷158÷198				•	•	•		
SMQ-SST stainless steel stem	Ø8.5	M8x48÷73								
		M10x48÷73÷103								
		M12x48÷73÷103								
	Ø14	M16x68÷108÷148÷168		•	•				•	•
		M20x110÷150÷170÷210		•	•				•	•
		M24x110÷170÷210		•	•				•	•

DESCRIPTION STRUCTURE



Levelling element	Base diameter (D)	Articulation diameter (d2)	To add only for the version with no-slip disk assembled to the base	To add only for the version with stainless steel stem	Thread diameter (d) Thread length (l)	To add only for the version with antistatic base
LV.A	80	14	AS	SST	M8x43	ESD-C



LV.A	–	80	–	14	–	AS	–	–	–	ESD-C

SM	–			14	–			SST	–	M8x43

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Levelling feet

Steel sheet metal, zinc plated / with rubber underlay

SPECIFICATION

Types (Base plate)

- Type **A1**: Steel, zinc plated, rubber inlaid, black
- Type **A2**: Steel, zinc plated, rubber inlaid, white

Version

- Version **S**: without nut, external hexagon at the bottom
- Version **SK**: with nut, external hexagon at the bottom
- Version **U**: without nut, hexagon socket at the top, wrench flat at the bottom
- Version **UK**: with nut, hexagon socket at the top, wrench flat at the bottom
- Version **X**: with female thread, external hexagon

Base plate, sheet metal
Steel, zinc plated, blue passivated

Threaded stem
Steel, zinc plated, blue passivated

Hexagon nut ISO 4032
Steel, zinc plated, blue passivated

Rubber underlay, inlaid

- black: Perbunan® (NBR) 80±5 Shore A
- white: Santoprene® (TPE) 80±5 Shore A

INFORMATION

Levelling feet GN 30 will be delivered mounted and are not removable.

TECHNICAL INFORMATION

- Elastomer characteristics (see page A32)

LOAD RATING OF LEVELLING FEET

Information

The static load bearing capacity given in the table rests on a test series in which the load has been applied perpendicular to the base plate. For the values given in the table, the strain relief may result in minor deformations of the base plate.
Bending and buckling stress which often occurs in practice results in a lower load bearing capacity of the adjustment spindle and may have to be taken into account.
Also, the spindle strength is assumed to be ≥ 500 N/mm^2.
The details given on strength are nonbinding guide values without any liability. In general, they do not constitute a warranty of quality.
The user must determine from case to case if a product is suitable for the intended purpose or use. Environmental factors may influence the stated values.

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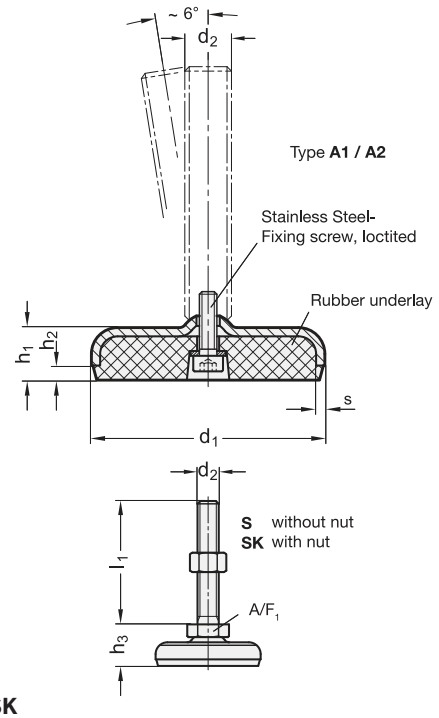

*Complete with version of the Levelling feet (External hexagon at the bottom)

S without nut

SK with nut

GN 30-S/SK

Description	d1	d2	l1	h1	h2	h3	s	A/F 1	Static load in kN	⚖
GN 30-50-M8-40-A1-*	50	M 8	40	14.5	3.5	23	3	17	8	110
GN 30-50-M8-40-A2-*	50	M 8	40	14.5	3.5	23	3	17	8	80
GN 30-50-M8-50-A1-*	50	M 8	50	14.5	3.5	23	3	17	8	110
GN 30-50-M8-50-A2-*	50	M 8	50	14.5	3.5	23	3	17	8	100
GN 30-50-M8-63-A1-*	50	M 8	63	14.5	3.5	23	3	17	8	118
GN 30-50-M8-63-A2-*	50	M 8	63	14.5	3.5	23	3	17	8	110
GN 30-50-M10-50-A1-*	50	M 10	50	14.5	3.5	23	3	17	10	120
GN 30-50-M10-50-A2-*	50	M 10	50	14.5	3.5	23	3	17	10	110
GN 30-50-M10-60-A1-*	50	M 10	60	14.5	3.5	23	3	17	10	120
GN 30-50-M10-60-A2-*	50	M 10	60	14.5	3.5	23	3	17	10	115
GN 30-50-M10-80-A1-*	50	M 10	80	14.5	3.5	23	3	17	10	140
GN 30-50-M10-80-A2-*	50	M 10	80	14.5	3.5	23	3	17	10	110
GN 30-50-M10-100-A1-*	50	M 10	100	14.5	3.5	23	3	17	10	140
GN 30-50-M10-100-A2-*	50	M 10	100	14.5	3.5	23	3	17	10	110
GN 30-50-M12-60-A1-*	50	M 12	60	14.5	3.5	23	3	17	12	140
GN 30-50-M12-60-A2-*	50	M 12	60	14.5	3.5	23	3	17	12	130
GN 30-50-M12-80-A1-*	50	M 12	80	14.5	3.5	23	3	17	12	153
GN 30-50-M12-80-A2-*	50	M 12	80	14.5	3.5	23	3	17	12	145
GN 30-50-M12-100-A1-*	50	M 12	100	14.5	3.5	23	3	17	12	170
GN 30-50-M12-100-A2-*	50	M 12	100	14.5	3.5	23	3	17	12	160
GN 30-50-M12-125-A1-*	50	M 12	125	14.5	3.5	23	3	17	12	180
GN 30-50-M12-125-A2-*	50	M 12	125	14.5	3.5	23	3	17	12	200
GN 30-60-M8-40-A1-*	60	M 8	40	16	4	24	3	17	8	170
GN 30-60-M8-40-A2-*	60	M 8	40	16	4	24	3	17	8	147
GN 30-60-M8-50-A1-*	60	M 8	50	16	4	24	3	17	8	150
GN 30-60-M8-50-A2-*	60	M 8	50	16	4	24	3	17	8	140
GN 30-60-M8-63-A1-*	60	M 8	63	16	4	24	3	17	8	170
GN 30-60-M8-63-A2-*	60	M 8	63	16	4	24	3	17	8	160
GN 30-60-M10-50-A1-*	60	M 10	50	16	4	24	3	17	10	170
GN 30-60-M10-50-A2-*	60	M 10	50	16	4	24	3	17	10	145
GN 30-60-M10-60-A1-*	60	M 10	60	16	4	24	3	17	10	160
GN 30-60-M10-60-A2-*	60	M 10	60	16	4	24	3	17	10	150
GN 30-60-M10-80-A1-*	60	M 10	80	16	4	24	3	17	10	160
GN 30-60-M10-80-A2-*	60	M 10	80	16	4	24	3	17	10	150
GN 30-60-M10-100-A1-*	60	M 10	100	16	4	24	3	17	10	200
GN 30-60-M10-100-A2-*	60	M 10	100	16	4	24	3	17	10	172
GN 30-60-M12-60-A1-*	60	M 12	60	16	4	24	3	17	12	200
GN 30-60-M12-60-A2-*	60	M 12	60	16	4	24	3	17	12	239
GN 30-60-M12-80-A1-*	60	M 12	80	16	4	24	3	17	12	190
GN 30-60-M12-80-A2-*	60	M 12	80	16	4	24	3	17	12	180
GN 30-60-M12-100-A1-*	60	M 12	100	16	4	24	3	17	12	220
GN 30-60-M12-100-A2-*	60	M 12	100	16	4	24	3	17	12	200
GN 30-60-M12-125-A1-*	60	M 12	125	16	4	24	3	17	12	233
GN 30-60-M12-125-A2-*	60	M 12	125	16	4	24	3	17	12	220
GN 30-80-M8-40-A1-*	80	M 8	40	18	5	26	3	17	8	400
GN 30-80-M8-40-A2-*	80	M 8	40	18	5	26	3	17	8	217
GN 30-80-M8-50-A1-*	80	M 8	50	18	5	26	3	17	8	220
GN 30-80-M8-50-A2-*	80	M 8	50	18	5	26	3	17	8	150
GN 30-80-M8-63-A1-*	80	M 8	63	18	5	26	3	17	8	224
GN 30-80-M8-63-A2-*	80	M 8	63	18	5	26	3	17	8	220

GN 30-S/SK

Description	d1	d2	l1	h1	h2	h3	s	A/F 1	Static load in kN	⚖
GN 30-80-M10-50-A1-*	80	M 10	50	18	5	26	3	17	10	250
GN 30-80-M10-50-A2-*	80	M 10	50	18	5	26	3	17	10	240
GN 30-80-M10-60-A1-*	80	M 10	60	18	5	26	3	17	10	250
GN 30-80-M10-60-A2-*	80	M 10	60	18	5	26	3	17	10	210
GN 30-80-M10-80-A1-*	80	M 10	80	18	5	26	3	17	10	200
GN 30-80-M10-80-A2-*	80	M 10	80	18	5	26	3	17	10	190
GN 30-80-M10-100-A1-*	80	M 10	100	18	5	26	3	17	10	300
GN 30-80-M10-100-A2-*	80	M 10	100	18	5	26	3	17	10	274
GN 30-80-M12-60-A1-*	80	M 12	60	18	5	26	3	17	12	298
GN 30-80-M12-60-A2-*	80	M 12	60	18	5	26	3	17	12	267
GN 30-80-M12-80-A1-*	80	M 12	80	18	5	26	3	17	12	270
GN 30-80-M12-80-A2-*	80	M 12	80	18	5	26	3	17	12	280
GN 30-80-M12-100-A1-*	80	M 12	100	18	5	26	3	17	12	325
GN 30-80-M12-100-A2-*	80	M 12	100	18	5	26	3	17	12	296
GN 30-80-M12-125-A1-*	80	M 12	125	18	5	26	3	17	12	320
GN 30-80-M12-125-A2-*	80	M 12	125	18	5	26	3	17	12	310
GN 30-100-M8-40-A1-*	100	M 8	40	20	6	28	3	17	8	400
GN 30-100-M8-40-A2-*	100	M 8	40	20	6	28	3	17	8	326
GN 30-100-M8-50-A1-*	100	M 8	50	20	6	28	3	17	8	416
GN 30-100-M8-50-A2-*	100	M 8	50	20	6	28	3	17	8	329
GN 30-100-M8-63-A1-*	100	M 8	63	20	6	28	3	17	8	460
GN 30-100-M8-63-A2-*	100	M 8	63	20	6	28	3	17	8	333
GN 30-100-M10-50-A1-*	100	M 10	50	20	6	28	3	17	10	350
GN 30-100-M10-50-A2-*	100	M 10	50	20	6	28	3	17	10	330
GN 30-100-M10-60-A1-*	100	M 10	60	20	6	28	3	17	10	420
GN 30-100-M10-60-A2-*	100	M 10	60	20	6	28	3	17	10	364
GN 30-100-M10-80-A1-*	100	M 10	80	20	6	28	3	17	10	433
GN 30-100-M10-80-A2-*	100	M 10	80	20	6	28	3	17	10	373
GN 30-100-M10-100-A1-*	100	M 10	100	20	6	28	3	17	10	445
GN 30-100-M10-100-A2-*	100	M 10	100	20	6	28	3	17	10	383
GN 30-100-M12-60-A1-*	100	M 12	60	20	6	28	3	17	11	440
GN 30-100-M12-60-A2-*	100	M 12	60	20	6	28	3	17	10	376
GN 30-100-M12-80-A1-*	100	M 12	80	20	6	28	3	17	11	350
GN 30-100-M12-80-A2-*	100	M 12	80	20	6	28	3	17	10	330
GN 30-100-M12-100-A1-*	100	M 12	100	20	6	28	3	17	11	460
GN 30-100-M12-100-A2-*	100	M 12	100	20	6	28	3	17	10	405
GN 30-100-M12-125-A1-*	100	M 12	125	20	6	28	3	17	11	482
GN 30-100-M12-125-A2-*	100	M 12	125	20	6	28	3	17	10	420

Weight Version S

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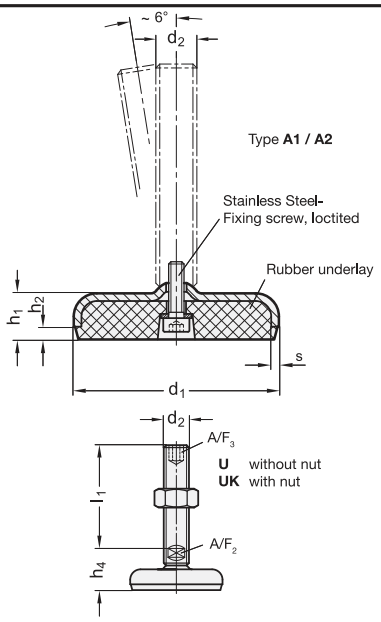
*Complete with version of the Levelling feet (Hexagon socket at the top / Wrench at the bottom)

U without nut

UK with nut



GN 30-U/UK

Description	d1	d2	l1	h1	h2	h4	s	A/F 2	A/F 3	Static load in kN	⚖
GN 30-50-M16-75-A1-*	50	M 16	75	14.5	3.5	29	3	12	8	16	192
GN 30-50-M16-75-A2-*	50	M 16	75	14.5	3.5	29	3	12	8	13	189
GN 30-50-M16-100-A1-*	50	M 16	100	14.5	3.5	29	3	12	8	16	220
GN 30-50-M16-100-A2-*	50	M 16	100	14.5	3.5	29	3	12	8	13	210
GN 30-50-M16-125-A1-*	50	M 16	125	14.5	3.5	29	3	12	8	16	260
GN 30-50-M16-125-A2-*	50	M 16	125	14.5	3.5	29	3	12	8	13	250
GN 30-50-M16-150-A1-*	50	M 16	150	14.5	3.5	29	3	12	8	16	300
GN 30-50-M16-150-A2-*	50	M 16	150	14.5	3.5	29	3	12	8	13	280
GN 30-50-M16-200-A1-*	50	M 16	200	14.5	3.5	29	3	12	8	16	351
GN 30-50-M16-200-A2-*	50	M 16	200	14.5	3.5	29	3	12	8	13	340
GN 30-60-M16-75-A1-*	60	M 16	75	16	4	30	3	12	8	16	240
GN 30-60-M16-75-A2-*	60	M 16	75	16	4	30	3	12	8	13	220
GN 30-60-M16-100-A1-*	60	M 16	100	16	4	30	3	12	8	16	241
GN 30-60-M16-100-A2-*	60	M 16	100	16	4	30	3	12	8	13	230
GN 30-60-M16-125-A1-*	60	M 16	125	16	4	30	3	12	8	16	300
GN 30-60-M16-125-A2-*	60	M 16	125	16	4	30	3	12	8	13	280
GN 30-60-M16-150-A1-*	60	M 16	150	16	4	30	3	12	8	16	330
GN 30-60-M16-150-A2-*	60	M 16	150	16	4	30	3	12	8	13	310
GN 30-60-M16-200-A1-*	60	M 16	200	16	4	30	3	12	8	16	398
GN 30-60-M16-200-A2-*	60	M 16	200	16	4	30	3	12	8	13	350
GN 30-80-M16-75-A1-*	80	M 16	75	18	5	32	3	12	8	12	320
GN 30-80-M16-75-A2-*	80	M 16	75	18	5	32	3	12	8	11	310
GN 30-80-M16-100-A1-*	80	M 16	100	18	5	32	3	12	8	12	380
GN 30-80-M16-100-A2-*	80	M 16	100	18	5	32	3	12	8	11	370
GN 30-80-M16-125-A1-*	80	M 16	125	18	5	32	3	12	8	12	404
GN 30-80-M16-125-A2-*	80	M 16	125	18	5	32	3	12	8	11	414
GN 30-80-M16-150-A1-*	80	M 16	150	18	5	32	3	12	8	12	440
GN 30-80-M16-150-A2-*	80	M 16	150	18	5	32	3	12	8	11	430
GN 30-80-M16-200-A1-*	80	M 16	200	18	5	32	3	12	8	12	508
GN 30-80-M16-200-A2-*	80	M 16	200	18	5	32	3	12	8	11	520
GN 30-80-M20-75-A1-*	80	M 20	75	18	5	33	3	15	10	12	420
GN 30-80-M20-75-A2-*	80	M 20	75	18	5	33	3	15	10	11	410
GN 30-80-M20-100-A1-*	80	M 20	100	18	5	33	3	15	10	12	460
GN 30-80-M20-100-A2-*	80	M 20	100	18	5	33	3	15	10	11	450
GN 30-80-M20-125-A1-*	80	M 20	125	18	5	33	3	15	10	12	520
GN 30-80-M20-125-A2-*	80	M 20	125	18	5	33	3	15	10	11	510
GN 30-80-M20-150-A1-*	80	M 20	150	18	5	33	3	15	10	12	560
GN 30-80-M20-150-A2-*	80	M 20	150	18	5	33	3	15	10	11	550
GN 30-80-M20-200-A1-*	80	M 20	200	18	5	33	3	15	10	12	663
GN 30-80-M20-200-A2-*	80	M 20	200	18	5	33	3	15	10	11	660
GN 30-80-M24-100-A1-*	80	M 24	100	18	5	36	3	19	12	12	560
GN 30-80-M24-100-A2-*	80	M 24	100	18	5	36	3	19	12	11	560
GN 30-80-M24-125-A1-*	80	M 24	125	18	5	36	3	19	12	12	690
GN 30-80-M24-125-A2-*	80	M 24	125	18	5	36	3	19	12	11	679
GN 30-80-M24-150-A1-*	80	M 24	150	18	5	36	3	19	12	12	700
GN 30-80-M24-150-A2-*	80	M 24	150	18	5	36	3	19	12	11	651
GN 30-80-M24-200-A1-*	80	M 24	200	18	5	36	3	19	12	12	700
GN 30-80-M24-200-A2-*	80	M 24	200	18	5	36	3	19	12	11	789
GN 30-100-M16-75-A1-*	100	M 16	75	20	6	34	3	12	8	11	505
GN 30-100-M16-100-A1-*	100	M 16	100	20	6	34	3	12	8	10	441
GN 30-100-M16-100-A2-*	100	M16	100	20	6	34	3	12	8	10	441
GN 30-100-M16-125-A1-*	100	M 16	125	20	6	34	3	12	8	11	560
GN 30-100-M16-125-A2-*	100	M 16	125	20	6	34	3	12	8	10	473
GN 30-100-M16-150-A1-*	100	M 16	150	20	6	34	3	12	8	11	600
GN 30-100-M16-150-A2-*	100	M 16	150	20	6	34	3	12	8	11	505
GN 30-100-M16-200-A1-*	100	M 16	200	20	6	34	3	12	8	11	650
GN 30-100-M16-200-A2-*	100	M 16	200	20	6	34	3	12	8	10	600

GN 30-U/UK

Description	d1	d2	l1	h1	h2	h4	s	A/F 2	A/F 3	Static load in kN	⚖
GN 30-100-M20-75-A1-*	100	M 20	75	20	6	35	3	15	10	11	500
GN 30-100-M20-75-A2-*	100	M 20	75	20	6	35	3	15	10	10	450
GN 30-100-M20-100-A1-*	100	M 20	100	20	6	35	3	15	10	11	600
GN 30-100-M20-100-A2-*	100	M 20	100	20	6	35	3	15	10	10	550
GN 30-100-M20-125-A1-*	100	M 20	125	20	6	35	3	15	10	11	650
GN 30-100-M20-125-A2-*	100	M 20	125	20	6	35	3	15	10	10	649
GN 30-100-M20-150-A1-*	100	M 20	150	20	6	35	3	15	10	11	700
GN 30-100-M20-150-A2-*	100	M 20	150	20	6	35	3	15	10	10	749
GN 30-100-M20-200-A1-*	100	M 20	200	20	6	35	3	15	10	11	780
GN 30-100-M20-200-A2-*	100	M 20	200	20	6	35	3	15	10	10	720
GN 30-100-M24-100-A1-*	100	M 24	100	20	6	38	3	19	12	11	700
GN 30-100-M24-100-A2-*	100	M 24	100	20	6	38	3	19	12	10	652
GN 30-100-M24-125-A1-*	100	M 24	125	20	6	38	3	19	12	11	780
GN 30-100-M24-125-A2-*	100	M 24	125	20	6	38	3	19	12	10	770
GN 30-100-M24-150-A1-*	100	M 24	150	20	6	38	3	19	12	11	839
GN 30-100-M24-150-A2-*	100	M 24	150	20	6	38	3	19	12	10	820
GN 30-100-M24-200-A1-*	100	M 24	200	20	6	38	3	19	12	11	840
GN 30-100-M24-200-A2-*	100	M 24	200	20	6	38	3	19	12	10	900
GN 30-120-M20-100-A1-*	120	M 20	100	22	6	39	4	15	10	20	825
GN 30-120-M20-100-A2-*	120	M 20	100	22	6	39	4	15	10	16	742
GN 30-120-M20-125-A1-*	120	M 20	125	22	6	39	4	15	10	20	930
GN 30-120-M20-125-A2-*	120	M 20	125	22	6	39	4	15	10	16	910
GN 30-120-M20-150-A1-*	120	M 20	150	22	6	39	4	15	10	20	822
GN 30-120-M20-150-A2-*	120	M 20	150	22	6	39	4	15	10	16	820
GN 30-120-M20-200-A1-*	120	M 20	200	22	6	39	4	15	10	20	1100
GN 30-120-M20-200-A2-*	120	M 20	200	22	6	39	4	15	10	16	932
GN 30-120-M24-100-A1-*	120	M 24	100	22	6	42	4	19	12	20	1020
GN 30-120-M24-100-A2-*	120	M 24	100	22	6	42	4	19	12	16	847
GN 30-120-M24-125-A1-*	120	M 24	125	22	6	42	4	19	12	20	1060
GN 30-120-M24-125-A2-*	120	M 24	125	22	6	42	4	19	12	16	919
GN 30-120-M24-150-A1-*	120	M 24	150	22	6	42	4	19	12	20	1120
GN 30-120-M24-150-A2-*	120	M 24	150	22	6	42	4	19	12	16	1020
GN 30-120-M24-200-A1-*	120	M 24	200	22	6	42	4	19	12	20	1280
GN 30-120-M24-200-A2-*	120	M 24	200	22	6	42	4	19	12	16	1000
GN 30-120-M30-100-A1-*	120	M 30	100	22	6	46	4	24	12	20	1180
GN 30-120-M30-100-A2-*	120	M 30	100	22	6	46	4	24	12	16	1051
GN 30-120-M30-125-A1-*	120	M 30	125	22	6	46	4	24	12	20	1330
GN 30-120-M30-125-A2-*	120	M 30	125	22	6	46	4	24	12	16	1160
GN 30-120-M30-150-A1-*	120	M 30	150	22	6	46	4	24	12	20	1300
GN 30-120-M30-150-A2-*	120	M 30	150	22	6	46	4	24	12	16	1274
GN 30-120-M30-200-A1-*	120	M 30	200	22	6	46	4	24	12	20	1680
GN 30-120-M30-200-A2-*	120	M 30	200	22	6	46	4	24	12	16	1500

Weight Version U

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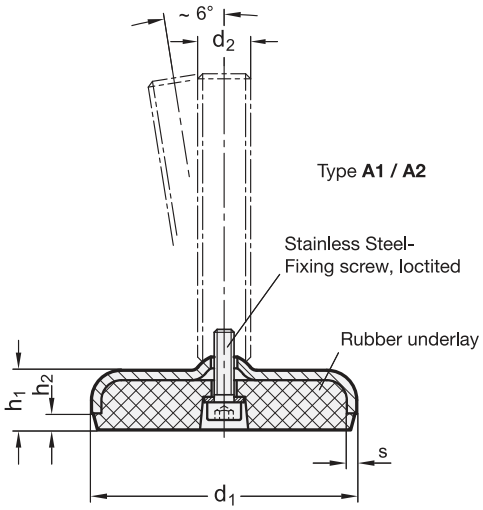

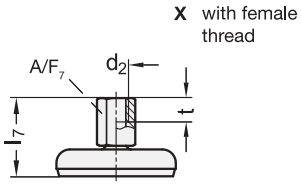

GN 30-X

Description	d1	d2	l7	h1	h2	s	A/F 7	t	Static load in kN	⚖
GN 30-50-M8-37-A1-X	50	M 8	37	14.5	3.5	3	14	8	8	110
GN 30-50-M8-37-A2-X	50	M 8	37	14.5	3.5	3	14	8	8	100
GN 30-50-M10-40-A1-X	50	M 10	40	14.5	3.5	3	14	10	13	110
GN 30-50-M10-40-A2-X	50	M 10	40	14.5	3.5	3	14	10	13	108
GN 30-50-M12-43-A1-X	50	M 12	43	14.5	3.5	3	17	12	16	120
GN 30-50-M12-43-A2-X	50	M 12	43	14.5	3.5	3	17	12	13	115
GN 30-50-M16-49-A1-X	50	M 16	49	14.5	3.5	3	22	16	16	161
GN 30-50-M16-49-A2-X	50	M 16	49	14.5	3.5	3	22	16	13	170
GN 30-60-M8-38-A1-X	60	M 8	38	16	4	3	14	8	8	150
GN 30-60-M8-38-A2-X	60	M 8	38	16	4	3	14	8	8	140
GN 30-60-M10-41-A1-X	60	M 10	41	16	4	3	14	10	13	160
GN 30-60-M10-41-A2-X	60	M 10	41	16	4	3	14	10	13	150
GN 30-60-M12-45-A1-X	60	M 12	45	16	4	3	17	12	16	140
GN 30-60-M12-45-A2-X	60	M 12	45	16	4	3	17	12	13	100
GN 30-60-M16-50-A1-X	60	M 16	50	16	4	3	22	16	16	210
GN 30-60-M16-50-A2-X	60	M 16	50	16	4	3	22	16	13	190
GN 30-80-M8-40-A1-X	80	M 8	40	18	5	3	14	8	8	260
GN 30-80-M8-40-A2-X	80	M 8	40	18	5	3	14	8	8	241
GN 30-80-M10-43-A1-X	80	M 10	43	18	5	3	14	10	12	300
GN 30-80-M10-43-A2-X	80	M 10	43	18	5	3	14	10	11	239

GN 30-X

Description	d1	d2	l7	h1	h2	s	A/F 7	t	Static load in kN	⚖
GN 30-80-M12-47-A1-X	80	M 12	47	18	5	3	17	12	12	250
GN 30-80-M12-47-A2-X	80	M 12	47	18	5	3	17	12	11	240
GN 30-80-M16-52-A1-X	80	M 16	52	18	5	3	22	16	12	320
GN 30-80-M16-52-A2-X	80	M 16	52	18	5	3	22	16	11	290
GN 30-80-M20-60-A1-X	80	M 20	60	18	5	3	27	20	12	380
GN 30-80-M20-60-A2-X	80	M 20	60	18	5	3	27	20	11	350
GN 30-100-M8-42-A1-X	100	M 8	42	20	6	3	14	8	8	437
GN 30-100-M8-42-A2-X	100	M 8	42	20	6	3	14	8	8	349
GN 30-100-M10-45-A1-X	100	M 10	45	20	6	3	14	10	11	280
GN 30-100-M10-45-A2-X	100	M 10	45	20	6	3	14	10	10	270
GN 30-100-M12-49-A1-X	100	M 12	49	20	6	3	17	12	11	360
GN 30-100-M12-49-A2-X	100	M 12	49	20	6	3	17	12	10	350
GN 30-100-M16-54-A1-X	100	M 16	54	20	6	3	22	16	11	460
GN 30-100-M16-54-A2-X	100	M 16	54	20	6	3	22	16	10	450
GN 30-100-M20-62-A1-X	100	M 20	62	20	6	3	27	20	11	500
GN 30-100-M20-62-A2-X	100	M 20	62	20	6	3	27	20	10	450
GN 30-120-M20-65-A1-X	120	M 20	65	22	6	4	27	20	20	820
GN 30-120-M20-65-A2-X	120	M 20	65	22	6	4	27	20	16	800

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Stainless Steel-Levelling fe

with rubber underlay

SPECIFICATION

Types (Base plate)

- Type **B1**: matt shot-blasted, rubber inlaid, black
- Type **B2**: matt shot-blasted, rubber inlaid, white
- Type **B3**: matt shot-blasted, rubber vulcanised, black
- Type **B4**: matt shot-blasted, rubber vulcanised, white
- Type **C3**: polished, rubber vulcanised, black
- Type **C4**: polished, rubber vulcanised, white

Version

- Version **S**: without nut, external hexagon at the bottom
- Version **SK**: with nut, external hexagon at the bottom
- Version **T**: without nut, wrench flat at the bottom
- Version **TK**: with nut, wrench flat at the bottom
- Version **U**: without nut, hexagon socket at the top, wrench flat at the bottom
- Version **UK**: with nut, hexagon at the top, wrench flat at the bottom
- Version **V**: without nut, external hexagon at the top, wrench flat at the bottom
- Version **VK**: with nut, external hexagon socket at the top, wrench flat at the bottom
- Version **W**: with adjustable sleeve, covered thread, wrench flat at the bottom
- Version **X**: with female thread, external hexagon

Base plate, blank ground
Stainless Steel AISI 304

Threaded stem
Stainless Steel AISI 303

Hexagon nut ISO 4032
Stainless Steel AISI 304

Rubber underlay, inlaid
- black: Perbunan® (NBR) 80±5 Shore A
- white: Perbunan® (CTP) 80±5 Shore A

Rubber underlay, vulcanised
- black: Perbunan® (NBR) 80±5 Shore A
- white: Perbunan® (NBR) 80±5 Shore A

INFORMATION

GN 31 Stainless Steel-Levelling feet with vulcanised rubber (Type B3, B4, C3 and C4) and screw version W feature fewer dead spots owing to their construction method and are also easier to clean.

Stainless Steel-Levelling feet GN 31 will be delivered mounted and are not removable.

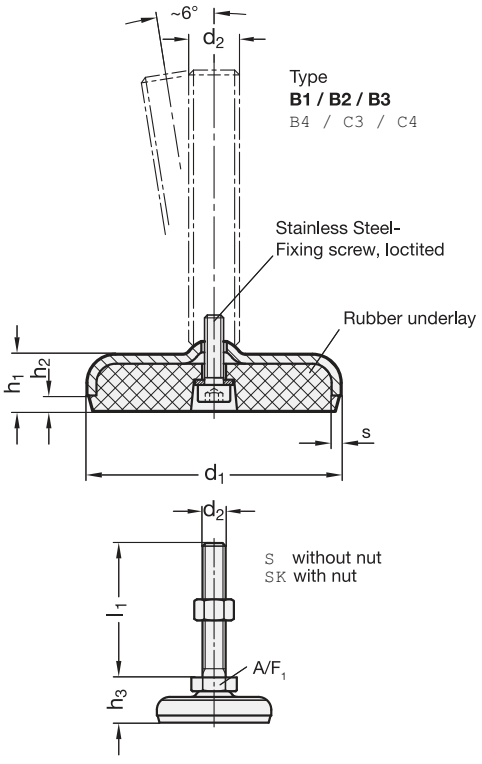
TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Elastomer characteristics (see page A32)

LOAD RATING OF STAINLESS STEEL-LEVELLING FEET

Information

The static load bearing capacity given in the table rests on a test series in which the load has been applied perpendicular to the base plate (without rubber underlay). For the values given in the table, the strain relief may result in minor deformations of the base plate.
Bending and buckling stress which often occurs in practice results in a lower load bearing capacity of the adjustment spindle and may have to be taken into account.
Also, the spindle strength is assumed to be ≥ 500 N/mm².
The details given on strength are nonbinding guide values without any liability. In general, they do not constitute a warranty of quality.
The user must determine from case to case if a product is suitable for the intended purpose or use. Environmental factors may influence the stated values.



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*Complete with version of the Levelling feet (External hexagon at the bottom)

S without nut

SK with nut

GN 31-S/SK

STAINLESS STEEL

Description	d1	d2	l1	h1	h2	h3 +0.4/0	s	A/F1	Static load in kN	⚖
GN 31-50-M8-40-B1-*	50	M 8	40	14.5	3.5	23	3	17	8	109
GN 31-50-M8-40-B2-*	50	M 8	40	14.5	3.5	23	3	17	8	100
GN 31-50-M8-50-B1-*	50	M 8	50	14.5	3.5	23	3	17	8	109
GN 31-50-M8-50-B2-*	50	M 8	50	14.5	3.5	23	3	17	8	105
GN 31-50-M8-63-B1-*	50	M 8	63	14.5	3.5	23	3	17	8	112
GN 31-50-M8-63-B2-*	50	M 8	63	14.5	3.5	23	3	17	8	110
GN 31-50-M10-50-B1-*	50	M 10	50	14.5	3.5	23	3	17	14	121
GN 31-50-M10-50-B2-*	50	M 10	50	14.5	3.5	23	3	17	14	115
GN 31-50-M10-60-B1-*	50	M 10	60	14.5	3.5	23	3	17	14	125
GN 31-50-M10-60-B2-*	50	M 10	60	14.5	3.5	23	3	17	14	117
GN 31-50-M10-80-B1-*	50	M 10	80	14.5	3.5	23	3	17	14	136
GN 31-50-M10-80-B2-*	50	M 10	80	14.5	3.5	23	3	17	14	130
GN 31-50-M10-100-B1-*	50	M 10	100	14.5	3.5	23	3	17	14	145
GN 31-50-M10-100-B2-*	50	M 10	100	14.5	3.5	23	3	17	14	140
GN 31-50-M12-60-B1-*	50	M 12	60	14.5	3.5	23	3	17	20	150
GN 31-50-M12-60-B2-*	50	M 12	60	14.5	3.5	23	3	17	20	145
GN 31-50-M12-80-B1-*	50	M 12	80	14.5	3.5	23	3	17	20	160
GN 31-50-M12-80-B2-*	50	M 12	80	14.5	3.5	23	3	17	20	155
GN 31-50-M12-100-B1-*	50	M 12	100	14.5	3.5	23	3	17	20	172
GN 31-50-M12-100-B2-*	50	M 12	100	14.5	3.5	23	3	17	20	167
GN 31-50-M12-125-B1-*	50	M 12	125	14.5	3.5	23	3	17	20	183
GN 31-50-M12-125-B2-*	50	M 12	125	14.5	3.5	23	3	17	20	180
GN 31-60-M8-40-B1-*	60	M 8	40	16	4	24	3	17	8	140
GN 31-60-M8-40-B2-*	60	M 8	40	16	4	24	3	17	8	130
GN 31-60-M8-40-B3-*	60	M 8	40	16	4	24	3	17	8	144
GN 31-60-M8-40-B4-*	60	M 8	40	16	4	24	3	17	8	144
GN 31-60-M8-40-C3-*	60	M 8	40	16	4	24	3	17	8	144
GN 31-60-M8-40-C4-*	60	M 8	40	16	4	24	3	17	8	144
GN 31-60-M8-50-B1-*	60	M 8	50	16	4	24	3	17	8	144
GN 31-60-M8-50-B2-*	60	M 8	50	16	4	24	3	17	8	140
GN 31-60-M8-50-B3-*	60	M 8	50	16	4	24	3	17	8	144
GN 31-60-M8-50-B4-*	60	M 8	50	16	4	24	3	17	8	144
GN 31-60-M8-50-C3-*	60	M 8	50	16	4	24	3	17	8	144
GN 31-60-M8-50-C4-*	60	M 8	50	16	4	24	3	17	8	144
GN 31-60-M8-63-B1-*	60	M 8	63	16	4	24	3	17	8	150
GN 31-60-M8-63-B2-*	60	M 8	63	16	4	24	3	17	8	144
GN 31-60-M8-63-B3-*	60	M 8	63	16	4	24	3	17	8	150
GN 31-60-M8-63-B4-*	60	M 8	63	16	4	24	3	17	8	150
GN 31-60-M8-63-C3-*	60	M 8	63	16	4	24	3	17	8	150
GN 31-60-M8-63-C4-*	60	M 8	63	16	4	24	3	17	8	150
GN 31-60-M10-50-B1-*	60	M 10	50	16	4	24	3	17	14	160
GN 31-60-M10-50-B2-*	60	M 10	50	16	4	24	3	17	14	150
GN 31-60-M10-50-B3-*	60	M 10	50	16	4	24	3	17	14	160
GN 31-60-M10-50-B4-*	60	M 10	50	16	4	24	3	17	14	160
GN 31-60-M10-50-C3-*	60	M 10	50	16	4	24	3	17	14	170
GN 31-60-M10-50-C4-*	60	M 10	50	16	4	24	3	17	14	160
GN 31-60-M10-60-B1-*	60	M 10	60	16	4	24	3	17	14	170
GN 31-60-M10-60-B2-*	60	M 10	60	16	4	24	3	17	14	170
GN 31-60-M10-60-B3-*	60	M 10	60	16	4	24	3	17	14	170
GN 31-60-M10-60-B4-*	60	M 10	60	16	4	24	3	17	14	170
GN 31-60-M10-60-C3-*	60	M 10	60	16	4	24	3	17	14	180
GN 31-60-M10-60-C4-*	60	M 10	60	16	4	24	3	17	14	160
GN 31-60-M10-80-B1-*	60	M 10	80	16	4	24	3	17	14	180
GN 31-60-M10-80-B2-*	60	M 10	80	16	4	24	3	17	14	180
GN 31-60-M10-80-B3-*	60	M 10	80	16	4	24	3	17	14	180
GN 31-60-M10-80-B4-*	60	M 10	80	16	4	24	3	17	14	180
GN 31-60-M10-80-C3-*	60	M 10	80	16	4	24	3	17	14	190
GN 31-60-M10-80-C4-*	60	M 10	80	16	4	24	3	17	14	170

GN 31-S/SK

STAINLESS STEEL

Description	d1	d2	l1	h1	h2	h3 +0.4/0	s	A/F1	Static load in kN	⚖
GN 31-60-M10-100-B1-*	60	M 10	100	16	4	24	3	17	14	190
GN 31-60-M10-100-B2-*	60	M 10	100	16	4	24	3	17	14	190
GN 31-60-M10-100-B3-*	60	M 10	100	16	4	24	3	17	14	190
GN 31-60-M10-100-B4-*	60	M 10	100	16	4	24	3	17	14	190
GN 31-60-M10-100-C3-*	60	M 10	100	16	4	24	3	17	14	181
GN 31-60-M10-100-C4-*	60	M 10	100	16	4	26	3	17	14	175
GN 31-60-M12-60-B1-*	60	M 12	60	16	4	24	3	17	20	181
GN 31-60-M12-60-B2-*	60	M 12	60	16	4	24	3	17	20	181
GN 31-60-M12-60-B3-*	60	M 12	60	16	4	24	3	17	20	181
GN 31-60-M12-60-B4-*	60	M 12	60	16	4	24	3	17	20	181
GN 31-60-M12-60-C3-*	60	M 12	60	16	4	24	3	17	20	200
GN 31-60-M12-60-C4-*	60	M 12	60	16	4	24	3	17	20	181
GN 31-60-M12-80-B1-*	60	M 12	80	16	4	24	3	17	20	200
GN 31-60-M12-80-B2-*	60	M 12	80	16	4	24	3	17	20	200
GN 31-60-M12-80-B3-*	60	M 12	80	16	4	24	3	17	20	200
GN 31-60-M12-80-B4-*	60	M 12	80	16	4	24	3	17	20	200
GN 31-60-M12-80-C3-*	60	M 12	80	16	4	24	3	17	20	220
GN 31-60-M12-80-C4-*	60	M 12	80	16	4	24	3	17	20	200
GN 31-60-M12-100-B1-*	60	M 12	100	16	4	24	3	17	20	220
GN 31-60-M12-100-B2-*	60	M 12	100	16	4	24	3	17	20	220
GN 31-60-M12-100-B3-*	60	M 12	100	16	4	24	3	17	20	220
GN 31-60-M12-100-B4-*	60	M 12	100	16	4	24	3	17	20	220
GN 31-60-M12-100-C3-*	60	M 12	100	16	4	24	3	17	20	230
GN 31-60-M12-100-C4-*	60	M 12	100	16	4	24	3	17	20	200
GN 31-60-M12-125-B1-*	60	M 12	125	16	4	24	3	17	20	230
GN 31-60-M12-125-B2-*	60	M 12	125	16	4	24	3	17	20	230
GN 31-60-M12-125-B3-*	60	M 12	125	16	4	24	3	17	20	230
GN 31-60-M12-125-B4-*	60	M 12	125	16	4	24	3	17	20	230
GN 31-60-M12-125-C3-*	60	M 12	125	18	5	24	3	17	20	172
GN 31-60-M12-125-C4-*	60	M 12	125	18	5	24	3	17	20	160
GN 31-80-M8-40-B1-*	80	M 8	40	18	5	26	3	17	8	172
GN 31-80-M8-40-B2-*	80	M 8	40	18	5	26	3	17	8	172
GN 31-80-M8-40-B3-*	80	M 8	40	18	5	26	3	17	8	172
GN 31-80-M8-40-B4-*	80	M 8	40	18	5	26	3	17	8	172
GN 31-80-M8-40-C3-*	80	M 8	40	18	5	26	3	17	8	173
GN 31-80-M8-40-C4-*	80	M 8	40	18	5	26	3	17	8	176
GN 31-80-M8-50-B1-*	80	M 8	50	18	5	26	3	17	8	176
GN 31-80-M8-50-B2-*	80	M 8	50	18	5	26	3	17	8	176
GN 31-80-M8-50-B3-*	80	M 8	50	18	5	26	3	17	8	176
GN 31-80-M8-50-B4-*	80	M 8	50	18	5	26	3	17	8	176
GN 31-80-M8-50-C3-*	80	M 8	50	18	5	26	3	17	8	180
GN 31-80-M8-50-C4-*	80	M 8	50	18	5	26	3	17	8	175
GN 31-80-M8-63-B1-*	80	M 8	63	18	5	26	3	17	8	180
GN 31-80-M8-63-B2-*	80	M 8	63	18	5	26	3	17	8	180
GN 31-80-M8-63-B3-*	80	M 8	63	18	5	26	3	17	8	180
GN 31-80-M8-63-B4-*	80	M 8	63	18	5	26	3	17	8	180
GN 31-80-M8-63-C3-*	80	M 8	63	18	5	26	3	17	8	220
GN 31-80-M8-63-C4-*	80	M 8	63	18	5	26	3	17	8	200
GN 31-80-M10-50-B1-*	80	M 10	50	18	5	26	3	17	14	220
GN 31-80-M10-50-B2-*	80	M 10	50	18	5	26	3	17	14	220
GN 31-80-M10-50-B3-*	80	M 10	50	18	5	26	3	17	14	220
GN 31-80-M10-50-B4-*	80	M 10	50	18	5	26	3	17	14	220
GN 31-80-M10-50-C3-*	80	M 10	50	18	5	26	3	17	14	260
GN 31-80-M10-50-C4-*	80	M 10	50	18	5	26	3	17	14	240
GN 31-80-M10-60-B1-*	80	M 10	60	18	5	26	3	17	14	260
GN 31-80-M10-60-B2-*	80	M 10	60	18	5	26	3	17	14	260
GN 31-80-M10-60-B3-*	80	M 10	60	18	5	26	3	17	14	260
GN 31-80-M10-60-B4-*	80	M 10	60	18	5	26	3	17	14	260
GN 31-80-M10-60-C3-*	80	M 10	60	18	5	26	3	17	14	280
GN 31-80-M10-60-C4-*	80	M 10	60	18	5	26	3	17	14	260
GN 31-80-M10-80-B1-*	80	M 10	80	18	5	26	3	17	14	280
GN 31-80-M10-80-B2-*	80	M 10	80	18	5	26	3	17	14	280
GN 31-80-M10-80-B3-*	80	M 10	80	18	5	26	3	17	14	280
GN 31-80-M10-80-B4-*	80	M 10	80	18	5	26	3	17	14	280
GN 31-80-M10-80-C3-*	80	M 10	80	18	5	26	3	17	14	290
GN 31-80-M10-80-C4-*	80	M 10	80	18	5	26	3	17	14	280

Weight Version S

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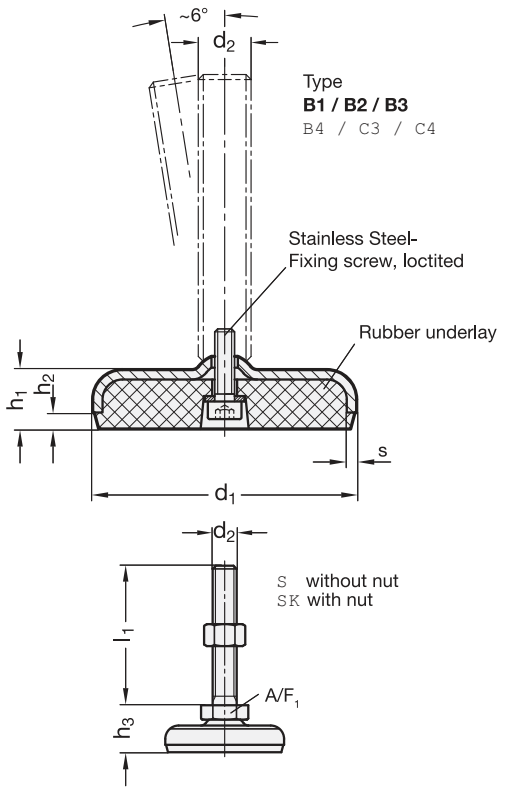
GN 31 | Stainless Steel-Levelling feet



*Complete with version of the Levelling feet (External hexagon at the bottom)

S without nut | **SK** with nut

GN 31-S/SK — STAINLESS STEEL

Description	d1	d2	l1	h1	h2	h3 +0.4/0	s	A/F1	Static load in kN	⚖
GN 31-80-M10-100-B1-*	80	M 10	100	18	5	26	3	17	14	290
GN 31-80-M10-100-B2-*	80	M 10	100	18	5	26	3	17	14	290
GN 31-80-M10-100-B3-*	80	M 10	100	18	5	26	3	17	14	290
GN 31-80-M10-100-B4-*	80	M 10	100	18	5	26	3	17	14	290
GN 31-80-M10-100-C3-*	80	M 10	100	18	5	26	3	17	14	300
GN 31-80-M10-100-C4-*	80	M 10	100	18	5	26	3	17	14	295
GN 31-80-M12-60-B1-*	80	M 12	60	18	5	26	3	17	19	300
GN 31-80-M12-60-B2-*	80	M 12	60	18	5	26	3	17	15	300
GN 31-80-M12-60-B3-*	80	M 12	60	18	5	26	3	17	19	300
GN 31-80-M12-60-B4-*	80	M 12	60	18	5	26	3	17	15	300
GN 31-80-M12-60-C3-*	80	M 12	60	18	5	26	3	17	19	320
GN 31-80-M12-60-C4-*	80	M 12	60	18	5	26	3	17	15	300
GN 31-80-M12-80-B1-*	80	M 12	80	18	5	26	3	17	19	320
GN 31-80-M12-80-B2-*	80	M 12	80	18	5	26	3	17	15	320
GN 31-80-M12-80-B3-*	80	M 12	80	18	5	26	3	17	19	320
GN 31-80-M12-80-B4-*	80	M 12	80	18	5	26	3	17	15	320
GN 31-80-M12-80-C3-*	80	M 12	80	18	5	26	3	17	19	330
GN 31-80-M12-80-C4-*	80	M 12	80	18	5	26	3	17	15	325
GN 31-80-M12-100-B1-*	80	M 12	100	18	5	26	3	17	19	330
GN 31-80-M12-100-B2-*	80	M 12	100	18	5	26	3	17	15	330
GN 31-80-M12-100-B3-*	80	M 12	100	18	5	26	3	17	19	330
GN 31-80-M12-100-B4-*	80	M 12	100	18	5	26	3	17	15	330
GN 31-80-M12-100-C3-*	80	M 12	100	18	5	26	3	17	19	350
GN 31-80-M12-100-C4-*	80	M 12	100	18	5	26	3	17	15	340
GN 31-80-M12-125-B1-*	80	M 12	125	18	5	26	3	17	19	350
GN 31-80-M12-125-B2-*	80	M 12	125	18	5	26	3	17	15	350
GN 31-80-M12-125-B3-*	80	M 12	125	18	5	26	3	17	19	350
GN 31-80-M12-125-B4-*	80	M 12	125	18	5	26	3	17	15	350
GN 31-80-M12-125-C3-*	80	M 12	125	20	6	28	3	17	19	290
GN 31-80-M12-125-C4-*	80	M 12	125	20	6	28	3	17	15	280
GN 31-100-M8-40-B1-*	100	M 8	40	20	6	28	3	17	8	290

GN 31-S/SK — STAINLESS STEEL

Description	d1	d2	l1	h1	h2	h3 +0.4/0	s	A/F1	Static load in kN	⚖
GN 31-100-M8-40-B2-*	100	M 8	40	20	6	28	3	17	8	290
GN 31-100-M8-40-B3-*	100	M 8	40	20	6	28	3	17	8	280
GN 31-100-M8-40-B4-*	100	M 8	40	20	6	28	3	17	8	290
GN 31-100-M8-40-C3-*	100	M 8	40	20	6	28	3	17	8	290
GN 31-100-M8-40-C4-*	100	M 8	40	20	6	28	3	17	8	290
GN 31-100-M8-50-B1-*	100	M 8	50	20	6	28	3	17	8	290
GN 31-100-M8-50-B2-*	100	M 8	50	20	6	28	3	17	8	548
GN 31-100-M8-50-B3-*	100	M 8	50	20	6	28	3	17	8	300
GN 31-100-M8-50-B4-*	100	M 8	50	20	6	28	3	17	8	290
GN 31-100-M8-50-C3-*	100	M 8	50	20	6	28	3	17	8	300
GN 31-100-M8-50-C4-*	100	M 8	50	20	6	28	3	17	8	300
GN 31-100-M8-63-B1-*	100	M 8	63	20	6	28	3	17	8	300
GN 31-100-M8-63-B2-*	100	M 8	63	20	6	28	3	17	8	340
GN 31-100-M8-63-B3-*	100	M 8	63	20	6	28	3	17	8	320
GN 31-100-M8-63-B4-*	100	M 8	63	20	6	28	3	17	8	340
GN 31-100-M8-63-C3-*	100	M 8	63	20	6	28	3	17	8	340
GN 31-100-M8-63-C4-*	100	M 8	63	20	6	28	3	17	8	340
GN 31-100-M10-50-B1-*	100	M 10	50	20	6	28	3	17	14	340
GN 31-100-M10-50-B2-*	100	M 10	50	20	6	28	3	17	14	390
GN 31-100-M10-50-B3-*	100	M 10	50	20	6	28	3	17	14	380
GN 31-100-M10-50-B4-*	100	M 10	50	20	6	28	3	17	14	390
GN 31-100-M10-50-C3-*	100	M 10	50	20	6	28	3	17	14	390
GN 31-100-M10-50-C4-*	100	M 10	50	20	6	28	3	17	14	390
GN 31-100-M10-60-B1-*	100	M 10	60	20	6	28	3	17	14	390
GN 31-100-M10-60-B2-*	100	M 10	60	20	6	28	3	17	14	420
GN 31-100-M10-60-B3-*	100	M 10	60	20	6	28	3	17	14	400
GN 31-100-M10-60-B4-*	100	M 10	60	20	6	28	3	17	14	420
GN 31-100-M10-60-C3-*	100	M 10	60	20	6	28	3	17	14	420
GN 31-100-M10-60-C4-*	100	M 10	60	20	6	28	3	17	14	420
GN 31-100-M10-80-B1-*	100	M 10	80	20	6	28	3	17	14	420
GN 31-100-M10-80-B2-*	100	M 10	80	20	6	28	3	17	14	450
GN 31-100-M10-80-B3-*	100	M 10	80	20	6	28	3	17	14	420
GN 31-100-M10-80-B4-*	100	M 10	80	20	6	28	3	17	14	450
GN 31-100-M10-80-C3-*	100	M 10	80	20	6	28	3	17	14	450
GN 31-100-M10-80-C4-*	100	M 10	80	20	6	28	3	17	14	450
GN 31-100-M10-100-B1-*	100	M 10	100	20	6	28	3	17	14	450
GN 31-100-M10-100-B2-*	100	M 10	100	20	6	28	3	17	14	470
GN 31-100-M10-100-B3-*	100	M 10	100	20	6	28	3	17	14	460
GN 31-100-M10-100-B4-*	100	M 10	100	20	6	28	3	17	14	470
GN 31-100-M10-100-C3-*	100	M 10	100	20	6	28	3	17	14	470
GN 31-100-M10-100-C4-*	100	M 10	100	20	6	28	3	17	14	470
GN 31-100-M12-60-B1-*	100	M 12	60	20	6	28	3	17	17	470
GN 31-100-M12-60-B2-*	100	M 12	60	20	6	28	3	17	14	420
GN 31-100-M12-60-B3-*	100	M 12	60	20	6	28	3	17	17	400
GN 31-100-M12-60-B4-*	100	M 12	60	20	6	28	3	17	14	420
GN 31-100-M12-60-C3-*	100	M 12	60	20	6	28	3	17	17	420
GN 31-100-M12-60-C4-*	100	M 12	60	20	6	28	3	17	14	420
GN 31-100-M12-80-B1-*	100	M 12	80	20	6	28	3	17	17	420
GN 31-100-M12-80-B2-*	100	M 12	80	20	6	28	3	17	14	440
GN 31-100-M12-80-B3-*	100	M 12	80	20	6	28	3	17	17	420
GN 31-100-M12-80-B4-*	100	M 12	80	20	6	28	3	17	14	440
GN 31-100-M12-80-C3-*	100	M 12	80	20	6	28	3	17	17	440
GN 31-100-M12-80-C4-*	100	M 12	80	20	6	28	3	17	14	440
GN 31-100-M12-100-B1-*	100	M 12	100	20	6	28	3	17	17	440
GN 31-100-M12-100-B2-*	100	M 12	100	20	6	28	3	17	14	460
GN 31-100-M12-100-B3-*	100	M 12	100	20	6	28	3	17	17	445
GN 31-100-M12-100-B4-*	100	M 12	100	20	6	28	3	17	14	460
GN 31-100-M12-100-C3-*	100	M 12	100	20	6	28	3	17	17	460
GN 31-100-M12-100-C4-*	100	M 12	100	20	6	28	3	17	14	460
GN 31-100-M12-125-B1-*	100	M 12	125	20	6	28	3	17	17	460
GN 31-100-M12-125-B2-*	100	M 12	125	20	6	28	3	17	14	540
GN 31-100-M12-125-B3-*	100	M 12	125	20	6	28	3	17	17	520
GN 31-100-M12-125-B4-*	100	M 12	125	20	6	28	3	17	14	540
GN 31-100-M12-125-C3-*	100	M 12	125	20	6	6	3	17	17	540
GN 31-100-M12-125-C4-*	100	M 12	125	20	6	6	3	17	17	540

Weight Version S

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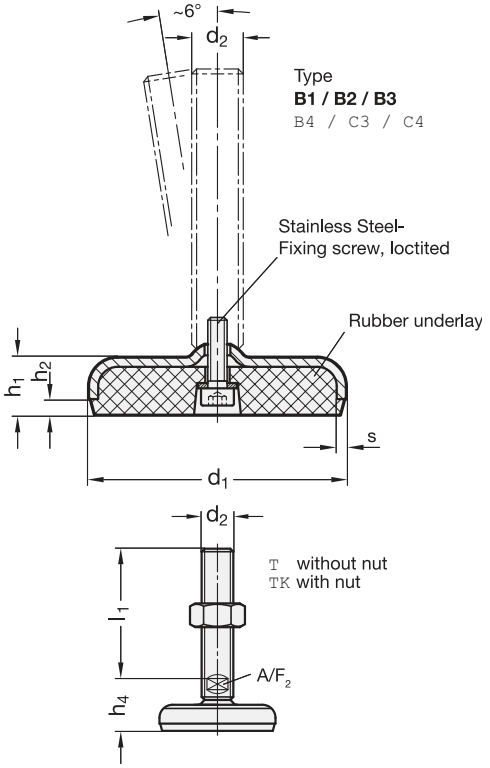

*Complete with version of the Levelling feet (Wrench flat at the bottom)

T without nut

TK with nut

GN 31-T/TK

STAINLESS STEEL

Description	d1	d2	l1	h1	h2	h4 +0.4/0	s	A/F 2	Static load in kN	⚖
GN 31-50-M16-75-B1-*	50	M 16	75	16	3.5	29	3	12	28	199
GN 31-50-M16-75-B2-*	50	M 16	75	16	3.5	29	3	12	28	190
GN 31-50-M16-100-B1-*	50	M 16	100	16	3.5	29	3	12	28	199
GN 31-50-M16-100-B2-*	50	M 16	100	16	3.5	29	3	12	28	199
GN 31-50-M16-125-B1-*	50	M 16	125	16	3.5	29	3	12	28	215
GN 31-50-M16-125-B2-*	50	M 16	125	16	3.5	29	3	12	28	205
GN 31-50-M16-150-B1-*	50	M 16	150	16	3.5	29	3	12	28	240
GN 31-50-M16-150-B2-*	50	M 16	150	16	3.5	29	3	12	28	230
GN 31-50-M16-200-B1-*	50	M 16	200	16	3.5	29	3	12	28	260
GN 31-50-M16-200-B2-*	50	M 16	200	16	3.5	29	3	12	28	250
GN 31-60-M16-75-B1-*	60	M 16	75	16	4	30	3	12	28	240
GN 31-60-M16-75-B2-*	60	M 16	75	16	4	30	3	12	25	230
GN 31-60-M16-75-B3-*	60	M 16	75	16	4	30	3	12	28	290
GN 31-60-M16-75-B4-*	60	M 16	75	16	4	30	3	12	25	280
GN 31-60-M16-75-C3-*	60	M 16	75	16	4	30	3	12	28	290
GN 31-60-M16-75-C4-*	60	M 16	75	16	4	30	3	12	25	280
GN 31-60-M16-100-B1-*	60	M 16	100	16	4	30	3	12	28	310
GN 31-60-M16-100-B2-*	60	M 16	100	16	4	30	3	12	25	300
GN 31-60-M16-100-B3-*	60	M 16	100	16	4	30	3	12	28	310
GN 31-60-M16-100-B4-*	60	M 16	100	16	4	30	3	12	25	310
GN 31-60-M16-100-C3-*	60	M 16	100	16	4	30	3	12	28	310
GN 31-60-M16-100-C4-*	60	M 16	100	16	4	30	3	12	25	310
GN 31-60-M16-125-B1-*	60	M 16	125	16	4	30	3	12	28	320
GN 31-60-M16-125-B2-*	60	M 16	125	16	4	30	3	12	25	306
GN 31-60-M16-125-B3-*	60	M 16	125	16	4	30	3	12	28	320
GN 31-60-M16-125-B4-*	60	M 16	125	16	4	30	3	12	25	320
GN 31-60-M16-125-C3-*	60	M 16	125	16	4	30	3	12	28	320
GN 31-60-M16-125-C4-*	60	M 16	125	16	4	30	3	12	25	320

GN 31-T/TK

STAINLESS STEEL

Description	d1	d2	l1	h1	h2	h4 +0.4/0	s	A/F 2	Static load in kN	⚖
GN 31-60-M16-150-B1-*	60	M 16	150	16	4	30	3	12	28	330
GN 31-60-M16-150-B2-*	60	M 16	150	16	4	30	3	12	25	320
GN 31-60-M16-150-B3-*	60	M 16	150	16	4	30	3	12	28	330
GN 31-60-M16-150-B4-*	60	M 16	150	16	4	30	3	12	25	330
GN 31-60-M16-150-C3-*	60	M 16	150	16	4	30	3	12	28	330
GN 31-60-M16-150-C4-*	60	M 16	150	16	4	30	3	12	25	330
GN 31-60-M16-200-B1-*	60	M 16	200	16	4	30	3	12	28	360
GN 31-60-M16-200-B2-*	60	M 16	200	16	4	30	3	12	25	350
GN 31-60-M16-200-B3-*	60	M 16	200	16	4	30	3	12	28	360
GN 31-60-M16-200-B4-*	60	M 16	200	16	4	30	3	12	25	360
GN 31-60-M16-200-C3-*	60	M 16	200	16	4	30	3	12	28	360
GN 31-60-M16-200-C4-*	60	M 16	200	16	4	30	3	12	25	360
GN 31-80-M16-75-B1-*	80	M 16	75	18	5	32	3	12	19	340
GN 31-80-M16-75-B2-*	80	M 16	75	18	5	32	3	12	15	330
GN 31-80-M16-75-B3-*	80	M 16	75	18	5	32	3	12	19	340
GN 31-80-M16-75-B4-*	80	M 16	75	18	5	32	3	12	15	340
GN 31-80-M16-75-C3-*	80	M 16	75	18	5	32	3	12	19	340
GN 31-80-M16-75-C4-*	80	M 16	75	18	5	32	3	12	15	340
GN 31-80-M16-100-B1-*	80	M 16	100	18	5	32	3	12	19	386
GN 31-80-M16-100-B2-*	80	M 16	100	18	5	32	3	12	15	380
GN 31-80-M16-100-B3-*	80	M 16	100	18	5	32	3	12	19	386
GN 31-80-M16-100-B4-*	80	M 16	100	18	5	32	3	12	15	386
GN 31-80-M16-100-C3-*	80	M 16	100	18	5	32	3	12	19	386
GN 31-80-M16-100-C4-*	80	M 16	100	18	5	32	3	12	15	386
GN 31-80-M16-125-B1-*	80	M 16	125	18	5	32	3	12	19	400
GN 31-80-M16-125-B2-*	80	M 16	125	18	5	32	3	12	15	390
GN 31-80-M16-125-B3-*	80	M 16	125	18	5	32	3	12	19	400
GN 31-80-M16-125-B4-*	80	M 16	125	18	5	32	3	12	15	400
GN 31-80-M16-125-C3-*	80	M 16	125	18	5	32	3	12	19	400

Weight Version T

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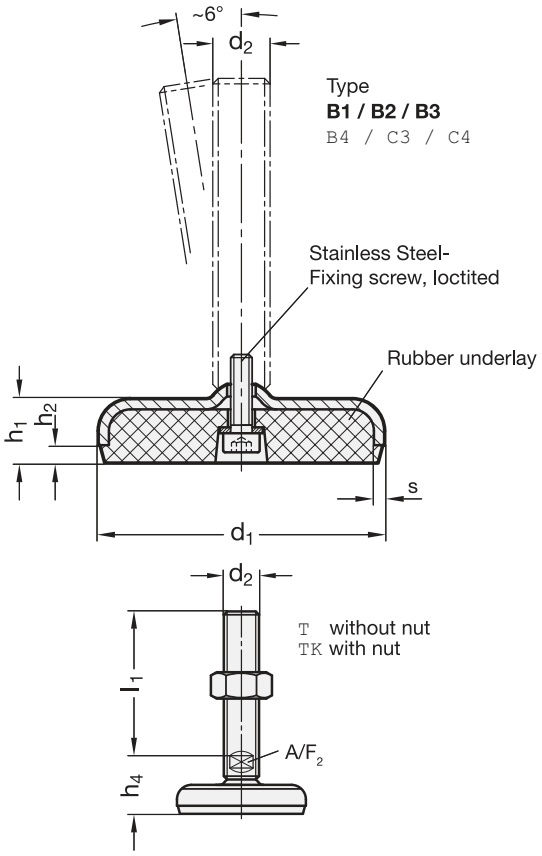

*Complete with version of the Levelling feet (Wrench flat at the bottom)

T without nut

TK with nut

GN 31-T/TK — **STAINLESS STEEL**

Description	d1	d2	l1	h1	h2	h4 +0.4/0	s	A/F 2	Static load in kN	⚖
GN 31-80-M16-150-B2-*	80	M 16	150	18	5	32	3	12	15	420
GN 31-80-M16-150-B3-*	80	M 16	150	18	5	32	3	12	19	440
GN 31-80-M16-150-B4-*	80	M 16	150	18	5	32	3	12	15	440
GN 31-80-M16-150-C3-*	80	M 16	150	18	5	32	3	12	19	440
GN 31-80-M16-150-C4-*	80	M 16	150	18	5	32	3	12	15	440
GN 31-80-M16-200-B1-*	80	M 16	200	18	5	32	3	12	19	500
GN 31-80-M16-200-B2-*	80	M 16	200	18	5	32	3	12	15	490
GN 31-80-M16-200-B3-*	80	M 16	200	18	5	32	3	12	19	500
GN 31-80-M16-200-B4-*	80	M 16	200	18	5	32	3	12	15	500
GN 31-80-M16-200-C3-*	80	M 16	200	18	5	32	3	12	19	500
GN 31-80-M16-200-C4-*	80	M 16	200	18	5	32	3	12	15	500
GN 31-80-M20-75-B1-*	80	M 20	75	18	5	33	3	15	19	440
GN 31-80-M20-75-B2-*	80	M 20	75	18	5	33	3	15	15	430
GN 31-80-M20-75-B3-*	80	M 20	75	18	5	33	3	15	19	440
GN 31-80-M20-75-B4-*	80	M 20	75	18	5	33	3	15	15	440
GN 31-80-M20-75-C3-*	80	M 20	75	18	5	33	3	15	19	440
GN 31-80-M20-75-C4-*	80	M 20	75	18	5	33	3	15	15	440
GN 31-80-M20-100-B1-*	80	M 20	100	18	5	33	3	15	19	460
GN 31-80-M20-100-B2-*	80	M 20	100	18	5	33	3	15	15	450
GN 31-80-M20-100-B3-*	80	M 20	100	18	5	33	3	15	19	460
GN 31-80-M20-100-B4-*	80	M 20	100	18	5	33	3	15	19	460

GN 31-T/TK — **STAINLESS STEEL**

Description	d1	d2	l1	h1	h2	h4 +0.4/0	s	A/F 2	Static load in kN	⚖
GN 31-80-M16-125-C4-*	80	M 16	125	18	5	32	3	12	15	400
GN 31-80-M16-150-B1-*	80	M 16	150	18	5	32	3	12	19	440
GN 31-80-M20-100-B4-*	80	M 20	100	18	5	33	3	15	15	460
GN 31-80-M20-100-C3-*	80	M 20	100	18	5	33	3	15	19	460
GN 31-80-M20-100-C4-*	80	M 20	100	18	5	33	3	15	15	460
GN 31-80-M20-125-B1-*	80	M 20	125	18	5	33	3	15	19	570
GN 31-80-M20-125-B2-*	80	M 20	125	18	5	33	3	15	15	500
GN 31-80-M20-125-B3-*	80	M 20	125	18	5	33	3	15	19	570
GN 31-80-M20-125-B4-*	80	M 20	125	18	5	33	3	15	15	570
GN 31-80-M20-125-C3-*	80	M 20	125	18	5	33	3	15	19	570
GN 31-80-M20-125-C4-*	80	M 20	125	18	5	33	3	15	15	570
GN 31-80-M20-150-B1-*	80	M 20	150	18	5	33	3	15	19	580
GN 31-80-M20-150-B2-*	80	M 20	150	18	5	33	3	15	15	570
GN 31-80-M20-150-B3-*	80	M 20	150	18	5	33	3	15	19	580
GN 31-80-M20-150-B4-*	80	M 20	150	18	5	33	3	15	15	580
GN 31-80-M20-150-C3-*	80	M 20	150	18	5	33	3	15	19	580
GN 31-80-M20-150-C4-*	80	M 20	150	18	5	33	3	15	15	580
GN 31-80-M20-200-B1-*	80	M 20	200	18	5	33	3	15	19	669
GN 31-80-M20-200-B2-*	80	M 20	200	18	5	33	3	15	15	650
GN 31-80-M20-200-B3-*	80	M 20	200	18	5	33	3	15	19	669
GN 31-80-M20-200-B4-*	80	M 20	200	18	5	33	3	15	15	669
GN 31-80-M20-200-C3-*	80	M 20	200	18	5	33	3	15	19	669
GN 31-80-M20-200-C4-*	80	M 20	200	18	5	33	3	15	15	669
GN 31-80-M24-100-B1-*	80	M 24	100	18	5	36	3	19	19	579
GN 31-80-M24-100-B2-*	80	M 24	100	18	5	36	3	19	15	570
GN 31-80-M24-100-B3-*	80	M 24	100	18	5	36	3	19	19	579
GN 31-80-M24-100-B4-*	80	M 24	100	18	5	36	3	19	15	579
GN 31-80-M24-100-C3-*	80	M 24	100	18	5	36	3	19	19	579
GN 31-80-M24-100-C4-*	80	M 24	100	18	5	36	3	19	15	579
GN 31-80-M24-125-B1-*	80	M 24	125	18	5	36	3	19	19	701
GN 31-80-M24-125-B2-*	80	M 24	125	18	5	36	3	19	15	657
GN 31-80-M24-125-B3-*	80	M 24	125	18	5	36	3	19	19	701
GN 31-80-M24-125-B4-*	80	M 24	125	18	5	36	3	19	15	701
GN 31-80-M24-125-C3-*	80	M 24	125	18	5	36	3	19	19	574
GN 31-80-M24-125-C4-*	80	M 24	125	18	5	36	3	19	15	701
GN 31-80-M24-150-B1-*	80	M 24	150	18	5	36	3	19	19	710
GN 31-80-M24-150-B2-*	80	M 24	150	18	5	36	3	19	15	657
GN 31-80-M24-150-B3-*	80	M 24	150	18	5	36	3	19	19	710
GN 31-80-M24-150-B4-*	80	M 24	150	18	5	36	3	19	15	710
GN 31-80-M24-150-C3-*	80	M 24	150	18	5	36	3	19	19	710
GN 31-80-M24-150-C4-*	80	M 24	150	18	5	36	3	19	15	710
GN 31-80-M24-200-B1-*	80	M 24	200	18	5	36	3	19	19	730
GN 31-80-M24-200-B2-*	80	M 24	200	18	5	36	3	19	15	700
GN 31-80-M24-200-B3-*	80	M 24	200	18	5	36	3	19	19	730
GN 31-80-M24-200-B4-*	80	M 24	200	18	5	36	3	19	15	730
GN 31-80-M24-200-C3-*	80	M 24	200	18	5	36	3	19	19	730
GN 31-80-M24-200-C4-*	80	M 24	200	18	5	36	3	19	15	730

Weight Version T

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*Complete with version of the Levelling feet (Wrench flat at the bottom)

T	TK
without nut	with nut

GN 31-T/TK

STAINLESS STEEL

Description	d1	d2	l1	h1	h2	h4 +0.4/0	s	A/F 2	Static load in kN	⚖
GN 31-100-M16-75-B1-*	100	M 16	75	20	6	34	3	12	17	483
GN 31-100-M16-75-B2-*	100	M 16	75	20	6	34	3	12	14	360
GN 31-100-M16-75-B3-*	100	M 16	75	20	6	34	3	12	17	483
GN 31-100-M16-75-B4-*	100	M 16	75	20	6	34	3	12	14	483
GN 31-100-M16-75-C3-*	100	M 16	75	20	6	34	3	12	17	483
GN 31-100-M16-75-C4-*	100	M 16	75	20	6	34	3	12	14	483
GN 31-100-M16-100-B1-*	100	M 16	100	20	6	34	3	12	17	520
GN 31-100-M16-100-B2-*	100	M 16	100	20	6	34	3	12	14	480
GN 31-100-M16-100-B3-*	100	M 16	100	20	6	34	3	12	17	520
GN 31-100-M16-100-B4-*	100	M 16	100	20	6	34	3	12	14	520
GN 31-100-M16-100-C3-*	100	M 16	100	20	6	34	3	12	17	520
GN 31-100-M16-100-C4-*	100	M 16	100	20	6	34	3	12	14	520
GN 31-100-M16-125-B1-*	100	M 16	125	20	6	34	3	12	17	570
GN 31-100-M16-125-B2-*	100	M 16	125	20	6	34	3	12	14	550
GN 31-100-M16-125-B3-*	100	M 16	125	20	6	34	3	12	17	570
GN 31-100-M16-125-B4-*	100	M 16	125	20	6	34	3	12	14	570
GN 31-100-M16-125-C3-*	100	M 16	125	20	6	34	3	12	17	570
GN 31-100-M16-125-C4-*	100	M 16	125	20	6	34	3	12	14	570
GN 31-100-M16-150-B1-*	100	M 16	150	20	6	34	3	12	17	600
GN 31-100-M16-150-B2-*	100	M 16	150	20	6	34	3	12	14	580
GN 31-100-M16-150-B3-*	100	M 16	150	20	6	34	3	12	17	600
GN 31-100-M16-150-B4-*	100	M 16	150	20	6	34	3	12	14	600
GN 31-100-M16-150-C3-*	100	M 16	150	20	6	34	3	12	17	600
GN 31-100-M16-150-C4-*	100	M 16	150	20	6	34	3	12	14	600
GN 31-100-M16-200-B1-*	100	M 16	200	20	6	34	3	12	17	630
GN 31-100-M16-200-B2-*	100	M 16	200	20	6	34	3	12	14	610
GN 31-100-M16-200-B3-*	100	M 16	200	20	6	34	3	12	17	630
GN 31-100-M16-200-B4-*	100	M 16	200	20	6	34	3	12	14	630
GN 31-100-M16-200-C3-*	100	M 16	200	20	6	34	3	12	17	630
GN 31-100-M16-200-C4-*	100	M 16	200	20	6	35	3	12	14	630
GN 31-100-M20-75-B1-*	100	M 20	75	20	6	35	3	15	17	707
GN 31-100-M20-75-B2-*	100	M 20	75	20	6	35	3	15	14	620
GN 31-100-M20-75-B3-*	100	M 20	75	20	6	35	3	15	17	707
GN 31-100-M20-75-B4-*	100	M 20	75	20	6	35	3	15	14	707
GN 31-100-M20-75-C3-*	100	M 20	75	20	6	35	3	15	17	707
GN 31-100-M20-75-C4-*	100	M 20	75	20	6	35	3	15	14	707
GN 31-100-M20-100-B1-*	100	M 20	100	20	6	35	3	15	17	740
GN 31-100-M20-100-B2-*	100	M 20	100	20	6	35	3	15	14	700
GN 31-100-M20-100-B3-*	100	M 20	100	20	6	35	3	15	17	740
GN 31-100-M20-100-B4-*	100	M 20	100	20	6	35	3	15	14	740
GN 31-100-M20-100-C3-*	100	M 20	100	20	6	35	3	15	17	740
GN 31-100-M20-100-C4-*	100	M 20	100	20	6	35	3	15	14	740
GN 31-100-M20-125-B1-*	100	M 20	125	20	6	35	3	15	17	816
GN 31-100-M20-125-B2-*	100	M 20	125	20	6	35	3	15	14	729
GN 31-100-M20-125-B3-*	100	M 20	125	20	6	35	3	15	17	816
GN 31-100-M20-125-B4-*	100	M 20	125	20	6	35	3	15	14	816
GN 31-100-M20-125-C3-*	100	M 20	125	20	6	35	3	15	17	816
GN 31-100-M20-125-C4-*	100	M 20	125	20	6	35	3	15	14	816
GN 31-100-M20-150-B1-*	100	M 20	150	20	6	35	3	15	17	830

GN 31-T/TK

STAINLESS STEEL

Description	d1	d2	l1	h1	h2	h4 +0.4/0	s	A/F 2	Static load in kN	⚖
GN 31-100-M20-150-B2-*	100	M 20	150	20	6	35	3	15	14	780
GN 31-100-M20-150-B3-*	100	M 20	150	20	6	35	3	15	17	830
GN 31-100-M20-150-B4-*	100	M 20	150	20	6	35	3	15	14	830
GN 31-100-M20-150-C3-*	100	M 20	150	20	6	35	3	15	17	830
GN 31-100-M20-150-C4-*	100	M 20	150	20	6	35	3	15	14	830
GN 31-100-M20-200-B1-*	100	M 20	200	20	6	35	3	15	17	840
GN 31-100-M20-200-B2-*	100	M 20	200	20	6	35	3	15	14	800
GN 31-100-M20-200-B3-*	100	M 20	200	20	6	35	3	15	17	840
GN 31-100-M20-200-B4-*	100	M 20	200	20	6	35	3	15	14	840
GN 31-100-M20-200-C3-*	100	M 20	200	20	6	35	3	15	17	840
GN 31-100-M20-200-C4-*	100	M 20	200	20	6	35	3	15	14	840
GN 31-100-M24-100-B1-*	100	M 24	100	20	6	38	3	19	17	860
GN 31-100-M24-100-B2-*	100	M 24	100	20	6	38	3	19	14	850
GN 31-100-M24-100-B3-*	100	M 24	100	20	6	38	3	19	17	860
GN 31-100-M24-100-B4-*	100	M 24	100	20	6	38	3	19	14	860
GN 31-100-M24-100-C3-*	100	M 24	100	20	6	38	3	19	17	860
GN 31-100-M24-100-C4-*	100	M 24	100	20	6	38	3	19	14	860
GN 31-100-M24-125-B1-*	100	M 24	125	20	6	38	3	19	17	936
GN 31-100-M24-125-B2-*	100	M 24	125	20	6	38	3	19	14	848
GN 31-100-M24-125-B3-*	100	M 24	125	20	6	38	3	19	17	936
GN 31-100-M24-125-B4-*	100	M 24	125	20	6	38	3	19	14	936
GN 31-100-M24-125-C3-*	100	M 24	125	20	6	38	3	19	17	936
GN 31-100-M24-125-C4-*	100	M 24	125	20	6	38	3	19	14	936
GN 31-100-M24-150-B1-*	100	M 24	150	20	6	38	3	19	17	950
GN 31-100-M24-150-B2-*	100	M 24	150	20	6	38	3	19	14	940
GN 31-100-M24-150-B3-*	100	M 24	150	20	6	38	3	19	17	950
GN 31-100-M24-150-B4-*	100	M 24	150	20	6	38	3	19	14	950
GN 31-100-M24-150-C3-*	100	M 24	150	20	6	38	3	19	17	950
GN 31-100-M24-150-C4-*	100	M 24	150	20	6	38	3	19	14	950
GN 31-100-M24-200-B1-*	100	M 24	200	20	6	38	3	19	17	990
GN 31-100-M24-200-B2-*	100	M 24	200	20	6	38	3	19	14	980
GN 31-100-M24-200-B3-*	100	M 24	200	20	6	38	3	19	17	990
GN 31-100-M24-200-B4-*	100	M 24	200	20	6	38	3	19	14	990
GN 31-100-M24-200-C3-*	100	M 24	200	20	6	38	3	19	17	990
GN 31-100-M24-200-C4-*	100	M 24	200	20	6	38	3	19	14	990
GN 31-120-M20-100-B1-*	120	M 20	100	22	6	39	4	15	25	1000
GN 31-120-M20-100-B2-*	120	M 20	100	22	6	39	4	15	22	990
GN 31-120-M20-125-B1-*	120	M 20	125	22	6	39	4	15	25	1000
GN 31-120-M20-125-B2-*	120	M 20	125	22	6	39	4	15	22	1000
GN 31-120-M20-150-B1-*	120	M 20	150	22	6	39	4	15	25	1000
GN 31-120-M20-150-B2-*	120	M 20	150	22	6	39	4	15	22	1000
GN 31-120-M20-200-B1-*	120	M 20	200	22	6	39	4	15	25	1080
GN 31-120-M20-200-B2-*	120	M 20	200	22	6	39	4	15	22	1060
GN 31-120-M24-100-B1-*	120	M 24	100	22	6	42	4	19	25	1080
GN 31-120-M24-100-B2-*	120	M 24	100	22	6	42	4	19	22	1080
GN 31-120-M24-125-B1-*	120	M 24	125	22	6	42	4	19	25	1090
GN 31-120-M24-125-B2-*	120	M 24	125	22	6	42	4	19	22	1070
GN 31-120-M24-150-B1-*	120	M 24	150	22	6	42	4	19	25	1090
GN 31-120-M24-150-B2-*	120	M 24	150	22	6	42	4	19	22	1090
GN 31-120-M24-200-B1-*	120	M 24	200	22	6	42	4	19	25	1280
GN 31-120-M24-200-B2-*	120	M 24	200	22	6	42	4	19	22	1144
GN 31-120-M30-100-B1-*	120	M 30	100	22	6	46	4	24	25	1280
GN 31-120-M30-100-B2-*	120	M 30	100	22	6	46	4	24	22	1280
GN 31-120-M30-125-B1-*	120	M 30	125	22	6	46	4	24	25	1329
GN 31-120-M30-125-B2-*	120	M 30	125	22	6	46	4	24	22	1200
GN 31-120-M30-150-B1-*	120	M 30	150	22	6	46	4	24	25	1329
GN 31-120-M30-150-B2-*	120	M 30	150	22	6	46	4	24	22	1329
GN 31-120-M30-200-B1-*	120	M 30	200	22	6	46	4	24	25	1329
GN 31-120-M30-200-B2-*	120	M 30	200	22	6	46	4	24	22	1329

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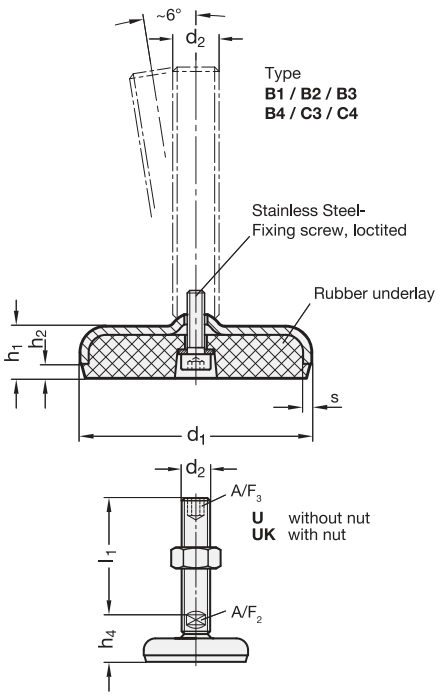

*Complete with version of the Levelling feet (Hexagon socket at the top / Wrench at the bottom)

U without nut

UK with nut

GN 31-U/UK

STAINLESS STEEL

Description	d1	d2	l1	h1	h2	h4 +0.4/0	s	A/F2	A/F3	Static load in kN	⚖
GN 31-50-M16-75-B1-*	50	M 16	75	14.5	3.5	29	3	12	8	28	191
GN 31-50-M16-75-B2-*	50	M 16	75	14.5	3.5	29	3	12	8	28	180
GN 31-50-M16-100-B1-*	50	M 16	100	14.5	3.5	29	3	12	8	28	220
GN 31-50-M16-100-B2-*	50	M 16	100	14.5	3.5	29	3	12	8	28	200
GN 31-50-M16-125-B1-*	50	M 16	125	14.5	3.5	29	3	12	8	28	260
GN 31-50-M16-125-B2-*	50	M 16	125	14.5	3.5	29	3	12	8	28	240
GN 31-50-M16-150-B1-*	50	M 16	150	14.5	3.5	29	3	12	8	28	289
GN 31-50-M16-150-B2-*	50	M 16	150	14.5	3.5	29	3	12	8	28	280
GN 31-50-M16-200-B1-*	50	M 16	200	14.5	3.5	29	3	12	8	28	295
GN 31-50-M16-200-B2-*	50	M 16	200	14.5	3.5	29	3	12	8	28	290
GN 31-60-M16-75-B1-*	60	M 16	75	16	4	30	3	12	8	28	280
GN 31-60-M16-75-B2-*	60	M 16	75	16	4	30	3	12	8	25	230
GN 31-60-M16-75-B3-*	60	M 16	75	16	4	30	3	12	8	28	280
GN 31-60-M16-75-B4-*	60	M 16	75	16	4	30	3	12	8	25	280
GN 31-60-M16-75-C3-*	60	M 16	75	16	4	30	3	12	8	28	280
GN 31-60-M16-75-C4-*	60	M 16	75	16	4	30	3	12	8	25	280
GN 31-60-M16-100-B1-*	60	M 16	100	16	4	30	3	12	8	28	290
GN 31-60-M16-100-B2-*	60	M 16	100	16	4	30	3	12	8	25	260
GN 31-60-M16-100-B3-*	60	M 16	100	16	4	30	3	12	8	28	290
GN 31-60-M16-100-B4-*	60	M 16	100	16	4	30	3	12	8	25	290
GN 31-60-M16-100-C3-*	60	M 16	100	16	4	30	3	12	8	28	290
GN 31-60-M16-100-C4-*	60	M 16	100	16	4	30	3	12	8	25	290
GN 31-60-M16-125-B1-*	60	M 16	125	16	4	30	3	12	8	28	310
GN 31-60-M16-125-B2-*	60	M 16	125	16	4	30	3	12	8	25	300
GN 31-60-M16-125-B3-*	60	M 16	125	16	4	30	3	12	8	28	310
GN 31-60-M16-125-B4-*	60	M 16	125	16	4	30	3	12	8	25	310
GN 31-60-M16-125-C3-*	60	M 16	125	16	4	30	3	12	8	28	310
GN 31-60-M16-125-C4-*	60	M 16	125	16	4	30	3	12	8	25	310
GN 31-60-M16-150-B1-*	60	M 16	150	16	4	30	3	12	8	28	340
GN 31-60-M16-150-B2-*	60	M 16	150	16	4	30	3	12	8	25	330
GN 31-60-M16-150-B3-*	60	M 16	150	16	4	30	3	12	8	28	340
GN 31-60-M16-150-B4-*	60	M 16	150	16	4	30	3	12	8	25	340
GN 31-60-M16-150-C3-*	60	M 16	150	16	4	30	3	12	8	28	340
GN 31-60-M16-150-C4-*	60	M 16	150	16	4	30	3	12	8	25	340
GN 31-60-M16-200-B1-*	60	M 16	200	16	4	30	3	12	8	28	360
GN 31-60-M16-200-B2-*	60	M 16	200	16	4	30	3	12	8	25	350
GN 31-60-M16-200-B3-*	60	M 16	200	16	4	30	3	12	8	28	360
GN 31-60-M16-200-B4-*	60	M 16	200	16	4	30	3	12	8	25	360
GN 31-60-M16-200-C3-*	60	M 16	200	16	4	30	3	12	8	28	360

GN 31-U/UK

STAINLESS STEEL

Description	d1	d2	l1	h1	h2	h4 +0.4/0	s	A/F2	A/F3	Static load in kN	⚖
GN 31-60-M16-200-C4-*	60	M 16	200	16	4	30	3	12	8	25	360
GN 31-80-M16-75-B1-*	80	M 16	75	18	5	32	3	12	8	19	390
GN 31-80-M16-75-B2-*	80	M 16	75	18	5	32	3	12	8	15	360
GN 31-80-M16-75-B3-*	80	M 16	75	18	5	32	3	12	8	19	390
GN 31-80-M16-75-B4-*	80	M 16	75	18	5	32	3	12	8	15	390
GN 31-80-M16-75-C3-*	80	M 16	75	18	5	32	3	12	8	19	390
GN 31-80-M16-75-C4-*	80	M 16	75	18	5	32	3	12	8	15	390
GN 31-80-M16-100-B1-*	80	M 16	100	18	5	32	3	12	8	19	410
GN 31-80-M16-100-B2-*	80	M 16	100	18	5	32	3	12	8	15	400
GN 31-80-M16-100-B3-*	80	M 16	100	18	5	32	3	12	8	19	410
GN 31-80-M16-100-B4-*	80	M 16	100	18	5	32	3	12	8	15	410
GN 31-80-M16-100-C3-*	80	M 16	100	18	5	32	3	12	8	19	410
GN 31-80-M16-100-C4-*	80	M 16	100	18	5	32	3	12	8	15	410
GN 31-80-M16-125-B1-*	80	M 16	125	18	5	32	3	12	8	19	419
GN 31-80-M16-125-B2-*	80	M 16	125	18	5	32	3	12	8	15	350
GN 31-80-M16-125-B3-*	80	M 16	125	18	5	32	3	12	8	19	419
GN 31-80-M16-125-B4-*	80	M 16	125	18	5	32	3	12	8	15	419
GN 31-80-M16-125-C3-*	80	M 16	125	18	5	32	3	12	8	19	419
GN 31-80-M16-125-C4-*	80	M 16	125	18	5	32	3	12	8	15	419
GN 31-80-M16-150-B1-*	80	M 16	150	18	5	32	3	12	8	19	455
GN 31-80-M16-150-B2-*	80	M 16	150	18	5	32	3	12	8	15	450
GN 31-80-M16-150-B3-*	80	M 16	150	18	5	32	3	12	8	19	455
GN 31-80-M16-150-B4-*	80	M 16	150	18	5	32	3	12	8	15	455
GN 31-80-M16-150-C3-*	80	M 16	150	18	5	32	3	12	8	19	455
GN 31-80-M16-150-C4-*	80	M 16	150	18	5	32	3	12	8	15	455
GN 31-80-M16-200-B1-*	80	M 16	200	18	5	32	3	12	8	19	515
GN 31-80-M16-200-B2-*	80	M 16	200	18	5	32	3	12	8	15	480
GN 31-80-M16-200-B3-*	80	M 16	200	18	5	32	3	12	8	19	515
GN 31-80-M16-200-B4-*	80	M 16	200	18	5	32	3	12	8	15	515
GN 31-80-M16-200-C3-*	80	M 16	200	18	5	32	3	12	8	19	515
GN 31-80-M16-200-C4-*	80	M 16	200	18	5	32	3	12	8	15	515
GN 31-80-M20-75-B1-*	80	M 20	75	18	5	33	3	15	10	19	400
GN 31-80-M20-75-B2-*	80	M 20	75	18	5	33	3	15	10	15	390
GN 31-80-M20-75-B3-*	80	M 20	75	18	5	33	3	15	10	19	400
GN 31-80-M20-75-B4-*	80	M 20	75	18	5	33	3	15	10	15	400
GN 31-80-M20-75-C3-*	80	M 20	75	18	5	33	3	15	10	19	400
GN 31-80-M20-75-C4-*	80	M 20	75	18	5	33	3	15	10	15	400
GN 31-80-M20-100-B1-*	80	M 20	100	18	5	33	3	15	10	19	460
GN 31-80-M20-100-B2-*	80	M 20	100	18	5	33	3	15	10	15	450
GN 31-80-M20-100-B3-*	80	M 20	100	18	5	33	3	15	10	19	460
GN 31-80-M20-100-B4-*	80	M 20	100	18	5	33	3	15	10	15	460
GN 31-80-M20-100-C3-*	80	M 20	100	18	5	33	3	15	10	19	460
GN 31-80-M20-100-C4-*	80	M 20	100	18	5	33	3	15	10	15	460
GN 31-80-M20-125-B1-*	80	M 20	125	18	5	33	3	15	10	19	520
GN 31-80-M20-125-B2-*	80	M 20	125	18	5	33	3	15	10	15	500
GN 31-80-M20-125-B3-*	80	M 20	125	18	5	33	3	15	10	19	520
GN 31-80-M20-125-B4-*	80	M 20	125	18	5	33	3	15	10	15	520
GN 31-80-M20-125-C3-*	80	M 20	125	18	5	33	3	15	10	19	520
GN 31-80-M20-125-C4-*	80	M 20	125	18	5	33	3	15	10	15	520
GN 31-80-M20-150-B1-*	80	M 20	150	18	5	33	3	15	10	19	494
GN 31-80-M20-150-B2-*	80	M 20	150	18	5	33	3	15	10	15	480
GN 31-80-M20-150-B3-*	80	M 20	150	18	5	33	3	15	10	19	494
GN 31-80-M20-150-B4-*	80	M 20	150	18	5	33	3	15	10	15	494
GN 31-80-M20-150-C3-*	80	M 20	150	18	5	33	3	15	10	19	494
GN 31-80-M20-150-C4-*	80	M 20	150	18	5	33	3	15	10	15	494
GN 31-80-M20-200-B1-*	80	M 20	200	18	5	33	3	15	10	19	660
GN 31-80-M20-200-B2-*	80	M 20	200	18	5	33	3	15	10	15	650
GN 31-80-M20-200-B3-*	80	M 20	200	18	5	33	3	15	10	19	660
GN 31-80-M20-200-B4-*	80	M 20	200	18	5	33	3	15	10	15	660
GN 31-80-M20-200-C3-*	80	M 20	200	18	5	33	3	15	10	19	660
GN 31-80-M20-200-C4-*	80	M 20	200	18	5	33	3	15	10	15	660
GN 31-80-M24-100-B1-*	80	M 24	100	18	5	36	3	19	12	19	630
GN 31-80-M24-100-B2-*	80	M 24	100	18	5	36	3	19	12	15	570
GN 31-80-M24-100-B3-*	80	M 24	100	18	5	36	3	19	12	19	630
GN 31-80-M24-100-B4-*	80	M 24	100	18	5	36	3	19	12	15	630
GN 31-80-M24-100-C3-*	80	M 24	100	18	5	36	3	19	12	19	630
GN 31-80-M24-100-C4-*	80	M 24	100	18	5	36	3	19	12	15	630
GN 31-80-M24-125-B1-*	80	M 24	125	18	5	36	3	19	12	19	640
GN 31-80-M24-125-B2-*	80	M 24	125	18	5	36	3	19	12	15	630
GN 31-80-M24-125-B3-*	80	M 24	125	18	5	36	3	19	12	19	640

Weight Version U

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*Complete with version of the Levelling feet (Hexagon socket at the top / Wrench at the bottom)

U without nut

UK with nut

GN 31-U/UK

STAINLESS STEEL

Description	d1	d2	l1	h1	h2	h4 +0.4/0	s	A/F 2	A/F 3	Static load in kN	⚖
GN 31-80-M24-125-B4-*	80	M 24	125	18	5	36	3	19	12	15	640
GN 31-80-M24-125-C3-*	80	M 24	125	18	5	36	3	19	12	19	640
GN 31-80-M24-125-C4-*	80	M 24	125	18	5	36	3	19	12	15	640
GN 31-80-M24-150-B1-*	80	M 24	150	18	5	36	3	19	12	19	700
GN 31-80-M24-150-B2-*	80	M 24	150	18	5	36	3	19	12	15	650
GN 31-80-M24-150-B3-*	80	M 24	150	18	5	36	3	19	12	19	700
GN 31-80-M24-150-B4-*	80	M 24	150	18	5	36	3	19	12	15	700
GN 31-80-M24-150-C3-*	80	M 24	150	18	5	36	3	19	12	19	700
GN 31-80-M24-150-C4-*	80	M 24	150	18	5	36	3	19	12	15	700
GN 31-80-M24-200-B1-*	80	M 24	200	18	5	36	3	19	12	19	710
GN 31-80-M24-200-B2-*	80	M 24	200	18	5	36	3	19	12	15	751
GN 31-80-M24-200-B3-*	80	M 24	200	18	5	36	3	19	12	19	710
GN 31-80-M24-200-B4-*	80	M 24	200	18	5	36	3	19	12	15	710
GN 31-80-M24-200-C3-*	80	M 24	200	18	5	36	3	19	12	19	710
GN 31-80-M24-200-C4-*	80	M 24	200	18	5	36	3	19	12	15	710
GN 31-100-M16-75-B1-*	100	M 16	75	20	6	34	3	12	8	17	400
GN 31-100-M16-75-B2-*	100	M 16	75	20	6	34	3	12	8	14	390
GN 31-100-M16-75-B3-*	100	M 16	75	20	6	34	3	12	8	17	400
GN 31-100-M16-75-B4-*	100	M 16	75	20	6	34	3	12	8	14	400
GN 31-100-M16-75-C3-*	100	M 16	75	20	6	34	3	12	8	17	400
GN 31-100-M16-75-C4-*	100	M 16	75	20	6	34	3	12	8	14	400
GN 31-100-M16-100-B1-*	100	M 16	100	20	6	34	3	12	8	17	524
GN 31-100-M16-100-B2-*	100	M 16	100	20	6	34	3	12	8	14	524
GN 31-100-M16-100-B3-*	100	M 16	100	20	6	34	3	12	8	17	524
GN 31-100-M16-100-B4-*	100	M 16	100	20	6	34	3	12	8	14	524
GN 31-100-M16-100-C3-*	100	M 16	100	20	6	34	3	12	8	17	524
GN 31-100-M16-100-C4-*	100	M 16	100	20	6	34	3	12	8	14	524
GN 31-100-M16-125-B1-*	100	M 16	125	20	6	34	3	12	8	17	540
GN 31-100-M16-125-B2-*	100	M 16	125	20	6	34	3	12	8	14	500
GN 31-100-M16-125-B3-*	100	M 16	125	20	6	34	3	12	8	17	540
GN 31-100-M16-125-B4-*	100	M 16	125	20	6	34	3	12	8	14	540
GN 31-100-M16-125-C3-*	100	M 16	125	20	6	34	3	12	8	17	540
GN 31-100-M16-125-C4-*	100	M 16	125	20	6	34	3	12	8	14	586
GN 31-100-M16-150-B1-*	100	M 16	150	20	6	34	3	12	8	17	560
GN 31-100-M16-150-B2-*	100	M 16	150	20	6	34	3	12	8	14	586
GN 31-100-M16-150-B3-*	100	M 16	150	20	6	34	3	12	8	17	586
GN 31-100-M16-150-B4-*	100	M 16	150	20	6	34	3	12	8	14	586
GN 31-100-M16-150-C3-*	100	M 16	150	20	6	34	3	12	8	17	586
GN 31-100-M16-150-C4-*	100	M 16	150	20	6	34	3	12	8	14	586
GN 31-100-M16-200-B1-*	100	M 16	200	20	6	34	3	12	8	17	642
GN 31-100-M16-200-B2-*	100	M 16	200	20	6	34	3	12	8	14	630
GN 31-100-M16-200-B3-*	100	M 16	200	20	6	34	3	12	8	17	642
GN 31-100-M16-200-B4-*	100	M 16	200	20	6	34	3	12	8	14	642
GN 31-100-M16-200-C3-*	100	M 16	200	20	6	34	3	12	8	17	642
GN 31-100-M16-200-C4-*	100	M 16	200	20	6	34	3	12	8	14	642
GN 31-100-M20-75-B1-*	100	M 20	75	20	6	35	3	15	10	17	540
GN 31-100-M20-75-B2-*	100	M 20	75	20	6	35	3	15	10	14	530
GN 31-100-M20-75-B3-*	100	M 20	75	20	6	35	3	15	10	17	540
GN 31-100-M20-75-B4-*	100	M 20	75	20	6	35	3	15	10	14	540
GN 31-100-M20-75-C3-*	100	M 20	75	20	6	35	3	15	10	17	540
GN 31-100-M20-75-C4-*	100	M 20	75	20	6	35	3	15	10	14	540
GN 31-100-M20-100-B1-*	100	M 20	100	20	6	35	3	15	10	17	620
GN 31-100-M20-100-B2-*	100	M 20	100	20	6	35	3	15	10	14	600
GN 31-100-M20-100-B3-*	100	M 20	100	20	6	35	3	15	10	17	620
GN 31-100-M20-100-B4-*	100	M 20	100	20	6	35	3	15	10	14	620
GN 31-100-M20-100-C3-*	100	M 20	100	20	6	35	3	15	10	17	620
GN 31-100-M20-100-C4-*	100	M 20	100	20	6	35	3	15	10	14	620
GN 31-100-M20-125-B1-*	100	M 20	125	20	6	35	3	15	10	17	670
GN 31-100-M20-125-B2-*	100	M 20	125	20	6	35	3	15	10	14	650
GN 31-100-M20-125-B3-*	100	M 20	125	20	6	35	3	15	10	17	670
GN 31-100-M20-125-B4-*	100	M 20	125	20	6	35	3	15	10	14	670
GN 31-100-M20-125-C3-*	100	M 20	125	20	6	35	3	15	10	17	670
GN 31-100-M20-125-C4-*	100	M 20	125	20	6	35	3	15	10	14	670
GN 31-100-M20-150-B1-*	100	M 20	150	20	6	35	3	15	10	17	715
GN 31-100-M20-150-B2-*	100	M 20	150	20	6	35	3	15	10	14	700
GN 31-100-M20-150-B3-*	100	M 20	150	20	6	35	3	15	10	17	715
GN 31-100-M20-150-B4-*	100	M 20	150	20	6	35	3	15	10	14	715
GN 31-100-M20-150-C3-*	100	M 20	150	20	6	35	3	15	10	17	715

GN 31-U/UK

STAINLESS STEEL

Description	d1	d2	l1	h1	h2	h4 +0.4/0	s	A/F 2	A/F 3	Static load in kN	⚖
GN 31-100-M20-150-C4-*	100	M 20	150	20	6	35	3	15	10	14	715
GN 31-100-M20-200-B1-*	100	M 20	200	20	6	35	3	15	10	17	798
GN 31-100-M20-200-B2-*	100	M 20	200	20	6	35	3	15	10	14	700
GN 31-100-M20-200-B3-*	100	M 20	200	20	6	35	3	15	10	17	798
GN 31-100-M20-200-B4-*	100	M 20	200	20	6	35	3	15	10	14	798
GN 31-100-M20-200-C3-*	100	M 20	200	20	6	35	3	15	10	17	798
GN 31-100-M20-200-C4-*	100	M 20	200	20	6	35	3	15	10	14	798
GN 31-100-M24-100-B1-*	100	M 24	100	20	6	38	3	19	12	17	700
GN 31-100-M24-100-B2-*	100	M 24	100	20	6	38	3	19	12	14	680
GN 31-100-M24-100-B3-*	100	M 24	100	20	6	38	3	19	12	17	700
GN 31-100-M24-100-B4-*	100	M 24	100	20	6	38	3	19	12	14	700
GN 31-100-M24-100-C3-*	100	M 24	100	20	6	38	3	19	12	17	700
GN 31-100-M24-100-C4-*	100	M 24	100	20	6	38	3	19	12	14	700
GN 31-100-M24-125-B1-*	100	M 24	125	20	6	38	3	19	12	17	720
GN 31-100-M24-125-B2-*	100	M 24	125	20	6	38	3	19	12	14	710
GN 31-100-M24-125-B3-*	100	M 24	125	20	6	38	3	19	12	17	720
GN 31-100-M24-125-B4-*	100	M 24	125	20	6	38	3	19	12	14	720
GN 31-100-M24-125-C3-*	100	M 24	125	20	6	38	3	19	12	17	720
GN 31-100-M24-125-C4-*	100	M 24	125	20	6	38	3	19	12	14	720
GN 31-100-M24-150-B1-*	100	M 24	150	20	6	38	3	19	12	17	840
GN 31-100-M24-150-B2-*	100	M 24	150	20	6	38	3	19	12	14	800
GN 31-100-M24-150-B3-*	100	M 24	150	20	6	38	3	19	12	17	840
GN 31-100-M24-150-B4-*	100	M 24	150	20	6	38	3	19	12	14	840
GN 31-100-M24-150-C3-*	100	M 24	150	20	6	38	3	19	12	17	840
GN 31-100-M24-150-C4-*	100	M 24	150	20	6	38	3	19	12	14	840
GN 31-100-M24-200-B1-*	100	M 24	200	20	6	38	3	19	12	17	895
GN 31-100-M24-200-B2-*	100	M 24	200	20	6	38	3	19	12	14	850
GN 31-100-M24-200-B3-*	100	M 24	200	20	6	38	3	19	12	17	895
GN 31-100-M24-200-B4-*	100	M 24	200	20	6	38	3	19	12	14	895
GN 31-100-M24-200-C3-*	100	M 24	200	20	6	38	3	19	12	17	895
GN 31-100-M24-200-C4-*	100	M 24	200	20	6	38	3	19	12	14	895
GN 31-120-M20-100-B1-*	120	M 20	100	22	6	39	4	15	10	25	1000
GN 31-120-M20-100-B2-*	120	M 20	100	22	6	39	4	15	10	22	990
GN 31-120-M20-125-B1-*	120	M 20	125	22	6	39	4	15	10	25	1000
GN 31-120-M20-125-B2-*	120	M 20	125	22	6	39	4	15	10	22	1000
GN 31-120-M20-150-B1-*	120	M 20	150	22	6	39	4	15	10	25	1035
GN 31-120-M20-150-B2-*	120	M 20	150	22	6	39	4	15	10	22	1015
GN 31-120-M20-200-B1-*	120	M 20	200	22	6	39	4	15	10	25	1035
GN 31-120-M20-200-B2-*	120	M 20	200	22	6	39	4	15	10	22	1035
GN 31-120-M24-100-B1-*	120	M 24	100	22	6	42	4	19	12	25	1090
GN 31-120-M24-100-B2-*	120	M 24	100	22	6	42	4	19	12	22	1050
GN 31-120-M24-125-B1-*	120	M 24	125	22	6	42	4	19	12	25	1110
GN 31-120-M24-125-B2-*	120	M 24	125	22	6	42	4	19	12	22	1100
GN 31-120-M24-150-B1-*	120	M 24	150	22	6	42	4	19	12	25	1115
GN 31-120-M24-150-B2-*	120	M 24	150	22	6	42	4	19	12	22	1110
GN 31-120-M24-200-B1-*	120	M 24	200	22	6	42	4	19	12	25	1200
GN 31-120-M24-200-B2-*	120	M 24	200	22	6	42	4	19	12	22	1124
GN 31-120-M30-100-B1-*	120	M 30	100	22	6	46	4	24	12	25	1210
GN 31-120-M30-100-B2-*	120	M 30	100	22	6	46	4	24	12	22	1160
GN 31-120-M30-125-B1-*	120	M 30	125	22	6	46	4	24	12	25	1320
GN 31-120-M30-125-B2-*	120	M 30	125	22	6	46	4	24	12	22	1180
GN 31-120-M30-150-B1-*	120	M 30	150	22	6	46	4	24	12	25	1400
GN 31-120-M30-150-B2-*	120	M 30	150	22	6	46	4	24	12	22	1300
GN 31-120-M30-200-B1-*	120	M 30	200	22	6	46	4	24	12	25	1650
GN 31-120 -M30-200-B2-*	120	M 30	200	22	6	46	4	24	12	22	1500

Weight Version U

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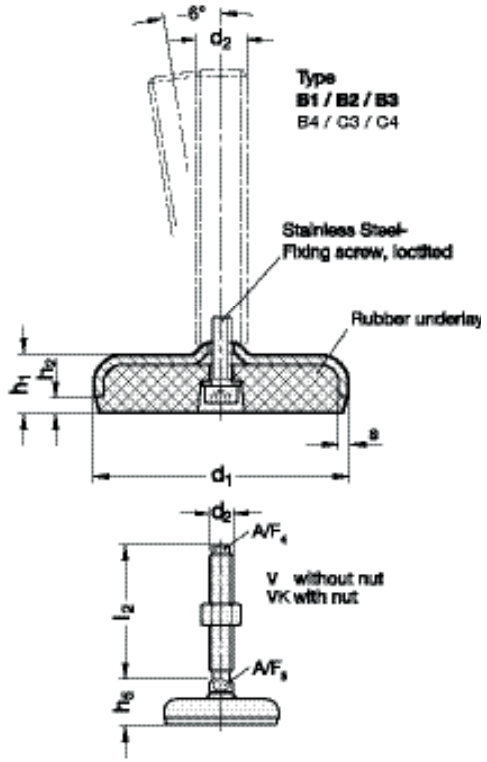

*Complete with version of Levelling feet (External hexagon socket on the top/Wrench flat at the bottom)

V without nut

VK with nut

GN 31-V/VK

STAINLESS STEEL

Description	d1	d2	l2	h1	h2	h5 +4.0/0	s	A/F 4	A/F 5	Static load in kN	⚖
GN 31-60-M16-75-B1-*	60	M 16	75	16	4	27	3	10	12	27	200
GN 31-60-M16-75-B2-*	60	M 16	75	16	4	27	3	10	12	27	156
GN 31-60-M16-75-B3-*	60	M 16	75	16	4	27	3	10	12	27	200
GN 31-60-M16-75-B4-*	60	M 16	75	16	4	27	3	10	12	27	200
GN 31-60-M16-75-C3-*	60	M 16	75	16	4	27	3	10	12	27	200
GN 31-60-M16-75-C4-*	60	M 16	75	16	4	27	3	10	12	27	200
GN 31-60-M16-100-B1-*	60	M 16	100	16	4	27	3	10	12	27	260
GN 31-60-M16-100-B2-*	60	M 16	100	16	4	27	3	10	12	27	250
GN 31-60-M16-100-B3-*	60	M 16	100	16	4	27	3	10	12	27	260
GN 31-60-M16-100-B4-*	60	M 16	100	16	4	27	3	10	12	27	260
GN 31-60-M16-100-C3-*	60	M 16	100	16	4	27	3	10	12	27	260
GN 31-60-M16-100-C4-*	60	M 16	100	16	4	27	3	10	12	27	260
GN 31-60-M16-125-B1-*	60	M 16	125	16	4	27	3	10	12	27	300
GN 31-60-M16-125-B2-*	60	M 16	125	16	4	27	3	10	12	27	290
GN 31-60-M16-125-B3-*	60	M 16	125	16	4	27	3	10	12	27	300
GN 31-60-M16-125-B4-*	60	M 16	125	16	4	27	3	10	12	27	300
GN 31-60-M16-125-C3-*	60	M 16	125	16	4	27	3	10	12	27	300
GN 31-60-M16-125-C4-*	60	M 16	125	16	4	27	3	10	12	27	300
GN 31-60-M16-150-B1-*	60	M 16	150	16	4	27	3	10	12	27	320
GN 31-60-M16-150-B2-*	60	M 16	150	16	4	27	3	10	12	27	310
GN 31-60-M16-150-B3-*	60	M 16	150	16	4	27	3	10	12	27	320
GN 31-60-M16-150-B4-*	60	M 16	150	16	4	27	3	10	12	27	320
GN 31-60-M16-150-C3-*	60	M 16	150	16	4	27	3	10	12	27	320
GN 31-60-M16-150-C4-*	60	M 16	150	16	4	27	3	10	12	27	320
GN 31-80-M16-75-B1-*	80	M 16	75	18	5	29	3	10	12	24	335
GN 31-80-M16-75-B2-*	80	M 16	75	18	5	29	3	10	12	24	330
GN 31-80-M16-75-B3-*	80	M 16	75	18	5	29	3	10	12	24	335
GN 31-80-M16-75-B4-*	80	M 16	75	18	5	29	3	10	12	24	335
GN 31-80-M16-75-C3-*	80	M 16	75	18	5	29	3	10	12	24	335
GN 31-80-M16-75-C4-*	80	M 16	75	18	5	29	3	10	12	24	335
GN 31-80-M16-100-B1-*	80	M 16	100	18	5	29	3	10	12	24	392
GN 31-80-M16-100-B2-*	80	M 16	100	18	5	29	3	10	12	24	350
GN 31-80-M16-100-B3-*	80	M 16	100	18	5	29	3	10	12	24	392
GN 31-80-M16-100-B4-*	80	M 16	100	18	5	29	3	10	12	24	392
GN 31-80-M16-100-C3-*	80	M 16	100	18	5	29	3	10	12	24	392
GN 31-80-M16-100-C4-*	80	M 16	100	18	5	29	3	10	12	24	392
GN 31-80-M16-125-B1-*	80	M 16	125	18	5	29	3	10	12	24	424
GN 31-80-M16-125-B2-*	80	M 16	125	18	5	29	3	10	12	24	382

GN 31-V/VK

STAINLESS STEEL

Description	d1	d2	l2	h1	h2	h5 +4.0/0	s	A/F 4	A/F 5	Static load in kN	⚖
GN 31-80-M16-125-B3-*	80	M 16	125	18	5	29	3	10	12	24	424
GN 31-80-M16-125-B4-*	80	M 16	125	18	5	29	3	10	12	24	424
GN 31-80-M16-125-C3-*	80	M 16	125	18	5	29	3	10	12	24	424
GN 31-80-M16-125-C4-*	80	M 16	125	18	5	29	3	10	12	24	424
GN 31-80-M16-150-B1-*	80	M 16	150	18	5	29	3	10	12	24	457
GN 31-80-M16-150-B2-*	80	M 16	150	18	5	29	3	10	12	24	440
GN 31-80-M16-150-B3-*	80	M 16	150	18	5	29	3	10	12	24	457
GN 31-80-M16-150-B4-*	80	M 16	150	18	5	29	3	10	12	24	457
GN 31-80-M16-150-C3-*	80	M 16	150	18	5	29	3	10	12	24	457
GN 31-80-M16-150-C4-*	80	M 16	150	18	5	29	3	10	12	24	457
GN 31-80-M20-100-B1-*	80	M 20	100	18	5	30	3	13	16	24	567
GN 31-80-M20-100-B2-*	80	M 20	100	18	5	30	3	13	16	24	525
GN 31-80-M20-100-B3-*	80	M 20	100	18	5	30	3	13	16	24	567
GN 31-80-M20-100-B4-*	80	M 20	100	18	5	30	3	13	16	24	567
GN 31-80-M20-100-C3-*	80	M 20	100	18	5	30	3	13	16	24	567
GN 31-80-M20-100-C4-*	80	M 20	100	18	5	30	3	13	16	24	567
GN 31-80-M20-125-B1-*	80	M 20	125	18	5	30	3	13	16	24	618
GN 31-80-M20-125-B2-*	80	M 20	125	18	5	30	3	13	16	24	576
GN 31-80-M20-125-B3-*	80	M 20	125	18	5	30	3	13	16	24	618
GN 31-80-M20-125-B4-*	80	M 20	125	18	5	30	3	13	16	24	618
GN 31-80-M20-125-C3-*	80	M 20	125	18	5	30	3	13	16	24	618
GN 31-80-M20-125-C4-*	80	M 20	125	18	5	30	3	13	16	24	618
GN 31-80-M20-150-B1-*	80	M 20	150	18	5	30	3	13	16	24	670
GN 31-80-M20-150-B2-*	80	M 20	150	18	5	30	3	13	16	24	628
GN 31-80-M20-150-B3-*	80	M 20	150	18	5	30	3	13	16	24	670
GN 31-80-M20-150-B4-*	80	M 20	150	18	5	30	3	13	16	24	670
GN 31-80-M20-150-C3-*	80	M 20	150	18	5	30	3	13	16	24	670
GN 31-80-M20-150-C4-*	80	M 20	150	18	5	30	3	13	16	24	670
GN 31-80-M20-200-B1-*	80	M 20	200	18	5	30	3	13	16	24	775
GN 31-80-M20-200-B2-*	80	M 20	200	18	5	30	3	13	16	24	733
GN 31-80-M20-200-B3-*	80	M 20	200	18	5	30	3	13	16	24	775
GN 31-80-M20-200-B4-*	80	M 20	200	18	5	30	3	13	16	24	775
GN 31-80-M20-200-C3-*	80	M 20	200	18	5	30	3	13	16	24	775
GN 31-80-M20-200-C4-*	80	M 20	200	18	5	30	3	13	16	24	775
GN 31-80-M24-100-B1-*	80	M 24	100	18	5	33	3	17	20	24	607
GN 31-80-M24-100-B2-*	80	M 24	100	18	5	33	3	17	20	24	563
GN 31-80-M24-100-B3-*	80	M 24	100	18	5	33	3	17	20	24	607
GN 31-80-M24-100-B4-*	80	M 24	100	18	5	33	3	17	20	24	607
GN 31-80-M24-100-C3-*	80	M 24	100	18	5	33	3	17	20	24	607
GN 31-80-M24-100-C4-*	80	M 24	100	18	5	33	3	17	20	24	607
GN 31-80-M24-150-B1-*	80	M 24	150	18	5	33	3	17	20	24	700
GN 31-80-M24-150-B2-*	80	M 24	150	18	5	33	3	17	20	24	690
GN 31-80-M24-150-B3-*	80	M 24	150	18	5	33	3	17	20	24	700
GN 31-80-M24-150-B4-*	80	M 24	150	18	5	33	3	17	20	24	700
GN 31-80-M24-150-C3-*	80	M 24	150	18	5	33	3	17	20	24	700
GN 31-80-M24-150-C4-*	80	M 24	150	18	5	33	3	17	20	24	700
GN 31-80-M24-200-B1-*	80	M 24	200	18	5	33	3	17	20	24	850
GN 31-80-M24-200-B2-*	80	M 24	200	18	5	33	3	17	20	24	840
GN 31-80-M24-200-B3-*	80	M 24	200	18	5	33	3	17	20	24	850
GN 31-80-M24-200-B4-*	80	M 24	200	18	5	33	3	17	20	24	850
GN 31-80-M24-200-C3-*	80	M 24	200	18	5	33	3	17	20	24	850
GN 31-80-M24-200-C4-*	80	M 24	200	18	5	33	3	17	20	24	850
GN 31-100-M16-75-B1-*	100	M 16	75	20	6	31	3	10	12	21	480
GN 31-100-M16-75-B2-*	100	M 16	75	20	6	31	3	10	12	21	460
GN 31-100-M16-75-B3-*	100	M 16	75	20	6	31	3	10	12	21	480
GN 31-100-M16-75-B4-*	100	M 16	75	20	6	31	3	10	12	21	480
GN 31-100-M16-75-C3-*	100	M 16	75	20	6	31	3	10	12	21	480
GN 31-100-M16-75-C4-*	100	M 16	75	20	6	31	3	10	12	21	480
GN 31-100-M16-100-B1-*	100	M 16	100	20	6	31	3	10	12	21	505
GN 31-100-M16-100-B2-*	100	M 16	100	20	6	31	3	10	12	21	490
GN 31-100-M16-100-B3-*	100	M 16	100	20	6	31	3	10	12	21	505
GN 31-100-M16-100-B4-*	100	M 16	100	20	6	31	3	10	12	21	505
GN 31-100-M16-100-C3-*	100	M 16	100	20	6	31	3	10	12	21	505
GN 31-100-M16-100-C4-*	100	M 16	100	20	6	31	3	10	12	21	505
GN 31-100-M16-125-B1-*	100	M 16	125	20	6	31	3	10	12	21	530
GN 31-100-M16-125-B2-*	100	M 16	125	20	6	31	3	10	12	21	510
GN 31-100-M16-125-B3-*	100	M 16	125	20	6	31	3	10	12	21	530
GN 31-100-M16-125-B4-*	100	M 16	125	20	6	31	3	10	12	21	530

Weight Version V

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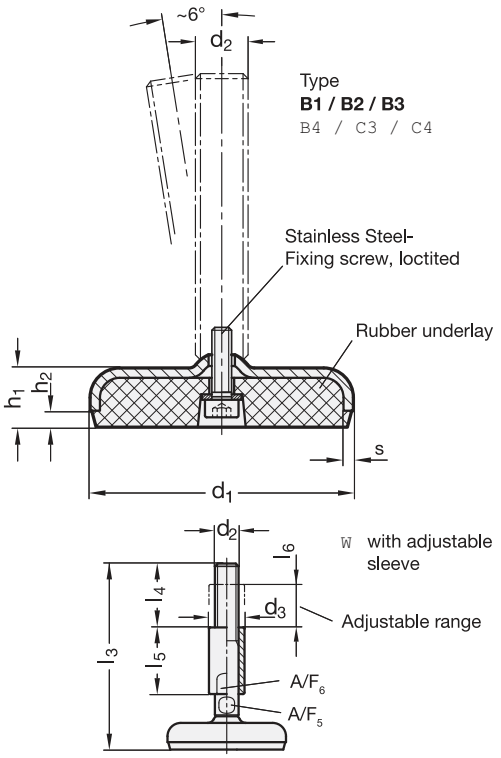

*Complete with version of Levelling feet (External hexagon socket on the top/Wrench flat at the bottom)

V without nut

VK with nut

GN 31-V/VK

STAINLESS STEEL

Description	d1	d2	l2	h1	h2	h5 +4.0/0	s	A/F 4	A/F 5	Static load in kN	⚖
GN 31-100-M16-125-C3-*	100	M 16	125	20	6	31	3	10	12	21	530
GN 31-100-M16-125-C4-*	100	M 16	125	20	6	31	3	10	12	21	530
GN 31-100-M16-150-B1-*	100	M 16	150	20	6	31	3	10	12	21	570
GN 31-100-M16-150-B2-*	100	M 16	150	20	6	31	3	10	12	21	555
GN 31-100-M16-150-B3-*	100	M 16	150	20	6	31	3	10	12	21	570
GN 31-100-M16-150-B4-*	100	M 16	150	20	6	31	3	10	12	21	570
GN 31-100-M16-150-C3-*	100	M 16	150	20	6	31	3	10	12	21	570
GN 31-100-M16-150-C4-*	100	M 16	150	20	6	31	3	10	12	21	570
GN 31-100-M20-100-B1-*	100	M 20	100	20	6	32	3	13	16	21	580
GN 31-100-M20-100-B2-*	100	M 20	100	20	6	32	3	13	16	21	575
GN 31-100-M20-100-B3-*	100	M 20	100	20	6	32	3	13	16	21	580
GN 31-100-M20-100-B4-*	100	M 20	100	20	6	32	3	13	16	21	580
GN 31-100-M20-100-C3-*	100	M 20	100	20	6	32	3	13	16	21	580
GN 31-100-M20-100-C4-*	100	M 20	100	20	6	32	3	13	16	21	580
GN 31-100-M20-125-B1-*	100	M 20	125	20	6	32	3	13	16	21	620
GN 31-100-M20-125-B2-*	100	M 20	125	20	6	32	3	13	16	21	600
GN 31-100-M20-125-B3-*	100	M 20	125	20	6	32	3	13	16	21	620
GN 31-100-M20-125-B4-*	100	M 20	125	20	6	32	3	13	16	21	620
GN 31-100-M20-125-C3-*	100	M 20	125	20	6	32	3	13	16	21	620
GN 31-100-M20-125-C4-*	100	M 20	125	20	6	32	3	13	16	21	620
GN 31-100-M20-150-B1-*	100	M 20	150	20	6	32	3	13	16	21	660
GN 31-100-M20-150-B2-*	100	M 20	150	20	6	32	3	13	16	21	650
GN 31-100-M20-150-B3-*	100	M 20	150	20	6	32	3	13	16	21	660
GN 31-100-M20-150-B4-*	100	M 20	150	20	6	32	3	13	16	21	660
GN 31-100-M20-150-C3-*	100	M 20	150	20	6	32	3	13	16	21	660
GN 31-100-M20-150-C4-*	100	M 20	150	20	6	32	3	13	16	21	660
GN 31-100-M20-200-B1-*	100	M 20	200	20	6	32	3	13	16	21	810
GN 31-100-M20-200-B2-*	100	M 20	200	20	6	32	3	13	16	21	804
GN 31-100-M20-200-B3-*	100	M 20	200	20	6	32	3	13	16	21	810
GN 31-100-M20-200-B4-*	100	M 20	200	20	6	32	3	13	16	21	810
GN 31-100-M20-200-C3-*	100	M 20	200	20	6	32	3	13	16	21	810
GN 31-100-M20-200-C4-*	100	M 20	200	20	6	32	3	13	16	21	810
GN 31-100-M24-100-B1-*	100	M 24	100	20	6	35	3	17	20	21	842
GN 31-100-M24-100-B2-*	100	M 24	100	20	6	35	3	17	20	21	754
GN 31-100-M24-100-B3-*	100	M 24	100	20	6	35	3	17	20	21	842
GN 31-100-M24-100-B4-*	100	M 24	100	20	6	35	3	17	20	21	842
GN 31-100-M24-100-C3-*	100	M 24	100	20	6	35	3	17	20	21	842
GN 31-100-M24-100-C4-*	100	M 24	100	20	6	35	3	17	20	21	842
GN 31-100-M24-150-B1-*	100	M 24	150	20	6	35	3	17	20	21	990
GN 31-100-M24-150-B2-*	100	M 24	150	20	6	35	3	17	20	21	902
GN 31-100-M24-150-B3-*	100	M 24	150	20	6	35	3	17	20	21	990
GN 31-100-M24-150-B4-*	100	M 24	150	20	6	35	3	17	20	21	990
GN 31-100-M24-150-C3-*	100	M 24	150	20	6	35	3	17	20	21	990
GN 31-100-M24-150-C4-*	100	M 24	150	20	6	35	3	17	20	21	990
GN 31-100-M24-200-B1-*	100	M 24	200	20	6	35	3	17	20	21	1110
GN 31-100-M24-200-B2-*	100	M 24	200	20	6	35	3	17	20	21	999
GN 31-100-M24-200-B3-*	100	M 24	200	20	6	35	3	17	20	21	1110
GN 31-100-M24-200-B4-*	100	M 24	200	20	6	35	3	17	20	21	1110
GN 31-100-M24-200-C3-*	100	M 24	200	20	6	35	3	17	20	21	1110
GN 31-100-M24-200-C4-*	100	M 24	200	20	6	35	3	17	20	21	1110

Weight Version V

GN 31-W

STAINLESS STEEL

Description	d1	d2	l3	d3	h1	h2	l4	l5	l6	s	A/F 5	A/F 6	Static load in kN	⚖
GN 31-60-M16-123-B1-W	60	M 16	123	24	16	4	45	45	29	3	12	20	27	350
GN 31-60-M16-123-B2-W	60	M 16	123	24	16	4	45	45	29	3	12	20	27	330
GN 31-60-M16-123-B3-W	60	M 16	123	24	16	4	45	45	29	3	12	20	27	350
GN 31-60-M16-123-B4-W	60	M 16	123	24	16	4	45	45	29	3	12	20	27	350
GN 31-60-M16-123-C3-W	60	M 16	123	24	16	4	45	45	29	3	12	20	27	350
GN 31-60-M16-123-C4-W	60	M 16	123	24	16	4	45	45	29	3	12	20	27	350
GN 31-60-M16-148-B1-W	60	M 16	148	24	16	4	45	45	29	3	12	20	27	388
GN 31-60-M16-148-B2-W	60	M 16	148	24	16	4	45	45	29	3	12	20	27	350
GN 31-60-M16-148-B3-W	60	M 16	148	24	16	4	45	45	29	3	12	20	27	388
GN 31-60-M16-148-B4-W	60	M 16	148	24	16	4	45	45	29	3	12	20	27	388
GN 31-60-M16-148-C3-W	60	M 16	148	24	16	4	45	45	29	3	12	20	27	388
GN 31-60-M16-148-C4-W	60	M 16	148	24	16	4	45	45	29	3	12	20	27	388
GN 31-60-M16-173-B1-W	60	M 16	173	24	16	4	45	45	29	3	12	20	27	400
GN 31-60-M16-173-B2-W	60	M 16	173	24	16	4	45	45	29	3	12	20	27	369
GN 31-60-M16-173-B3-W	60	M 16	173	24	16	4	45	45	29	3	12	20	27	400
GN 31-60-M16-173-B4-W	60	M 16	173	24	16	4	45	45	29	3	12	20	27	400
GN 31-60-M16-173-C3-W	60	M 16	173	24	16	4	45	45	29	3	12	20	27	400
GN 31-60-M16-173-C4-W	60	M 16	173	24	16	4	45	45	29	3	12	20	27	400
GN 31-60-M16-198-B1-W	60	M 16	198	24	16	4	45	45	29	3	12	20	27	469
GN 31-60-M16-198-B2-W	60	M 16	198	24	16	4	45	45	29	3	12	20	27	450
GN 31-60-M16-198-B3-W	60	M 16	198	24	16	4	45	45	29	3	12	20	27	469
GN 31-60-M16-198-B4-W	60	M 16	198	24	16	4	45	45	29	3	12	20	27	469
GN 31-60-M16-198-C3-W	60	M 16	198	24	16	4	45	45	29	3	12	20	27	469
GN 31-60-M16-198-C4-W	60	M 16	198	24	16	4	45	45	29	3	12	20	27	469
GN 31-80-M16-125-B1-W	80	M 16	125	24	18	5	45	45	29	3	12	20	24	485
GN 31-80-M16-125-B2-W	80	M 16	125	24	18	5	45	45	29	3	12	20	24	443
GN 31-80-M16-125-B3-W	80	M 16	125	24	18	5	45	45	29	3	12	20	24	485
GN 31-80-M16-125-B4-W	80	M 16	125	24	18	5	45	45	29	3	12	20	24	485
GN 31-80-M16-125-C3-W	80	M 16	125	24	18	5	45	45	29	3	12	20	24	485
GN 31-80-M16-125-C4-W	80	M 16	125	24	18	5	45	45	29	3	12	20	24	485
GN 31-80-M16-150-B1-W	80	M 16	150	24	18	5	45	45	29	3	12	20	24	494
GN 31-80-M16-150-B2-W	80	M 16	150	24	18	5	45	45	29	3	12	20	24	480
GN 31-80-M16-150-B3-W	80	M 16	150	24	18	5	45	45	29	3	12	20	24	494
GN 31-80-M16-150-B4-W	80	M 16	150	24	18	5	45	45	29	3	12	20	24	494
GN 31-80-M16-150-C3-W	80	M 16	150	24	18	5	45	45	29	3	12	20	24	494
GN 31-80-M16-150-C4-W	80	M 16	150	24	18	5	45	45	29	3	12	20	24	494
GN 31-80-M16-175-B1-W	80	M 16	175	24	18	5	45	45	29	3	12	20	24	540
GN 31-80-M16-175-B2-W	80	M 16	175	24	18	5	45	45	29	3	12	20	24	521
GN 31-80-M16-175-B3-W	80	M 16	175	24	18	5	45	45	29	3	12	20	24	540
GN 31-80-M16-175-B4-W	80	M 16	175	24	18	5	45	45	29	3	12	20	24	540

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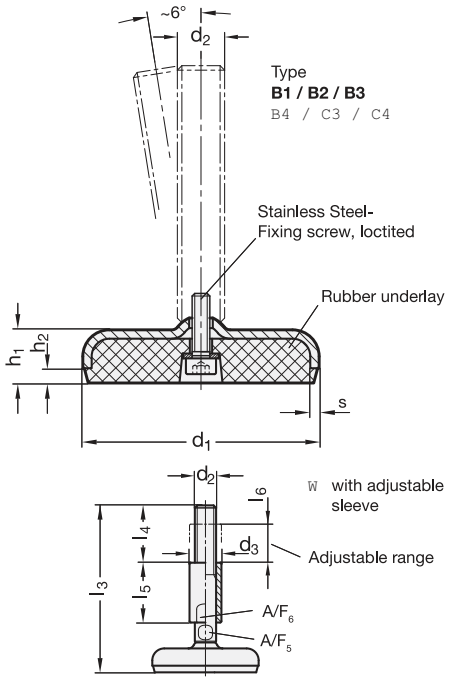
GN 31 | Stainless Steel-Levelling feet



GN 31-W

STAINLESS STEEL

Description	d1	d2	l3	d3	h1	h2	l4	l5	l6	s	A/F5	A/F6	Static load in kN	⚖
GN 31-80-M16-175-B3-W	80	M 16	175	24	18	5	45	45	29	3	12	20	24	540
GN 31-80-M16-175-B4-W	80	M 16	175	24	18	5	45	45	29	3	12	20	24	540
GN 31-80-M16-175-C3-W	80	M 16	175	24	18	5	45	45	29	3	12	20	24	540
GN 31-80-M16-175-C4-W	80	M 16	175	24	18	5	45	45	29	3	12	20	24	540
GN 31-80-M16-200-B1-W	80	M 16	200	24	18	5	45	45	29	3	12	20	24	580
GN 31-80-M16-200-B2-W	80	M 16	200	24	18	5	45	45	29	3	12	20	24	561
GN 31-80-M16-200-B3-W	80	M 16	200	24	18	5	45	45	29	3	12	20	24	580
GN 31-80-M16-200-B4-W	80	M 16	200	24	18	5	45	45	29	3	12	20	24	580
GN 31-80-M16-200-C3-W	80	M 16	200	24	18	5	45	45	29	3	12	20	24	580
GN 31-80-M16-200-C4-W	80	M 16	200	24	18	5	45	45	29	3	12	20	24	580
GN 31-80-M20-149-B1-W	80	M 20	149	30	18	5	56	56	36	3	16	24	24	680
GN 31-80-M20-149-B2-W	80	M 20	149	30	18	5	56	56	36	3	16	24	24	655
GN 31-80-M20-149-B3-W	80	M 20	149	30	18	5	56	56	36	3	16	24	24	680
GN 31-80-M20-149-B4-W	80	M 20	149	30	18	5	56	56	36	3	16	24	24	680
GN 31-80-M20-149-C3-W	80	M 20	149	30	18	5	56	56	36	3	16	24	24	680
GN 31-80-M20-149-C4-W	80	M 20	149	30	18	5	56	56	36	3	16	24	24	680
GN 31-80-M20-174-B1-W	80	M 20	174	30	18	5	56	56	36	3	16	24	24	740
GN 31-80-M20-174-B2-W	80	M 20	174	30	18	5	56	56	36	3	16	24	24	718
GN 31-80-M20-174-B3-W	80	M 20	174	30	18	5	56	56	36	3	16	24	24	740
GN 31-80-M20-174-B4-W	80	M 20	174	30	18	5	56	56	36	3	16	24	24	740
GN 31-80-M20-174-C3-W	80	M 20	174	30	18	5	56	56	36	3	16	24	24	740
GN 31-80-M20-174-C4-W	80	M 20	174	30	18	5	56	56	36	3	16	24	24	740
GN 31-80-M20-199-B1-W	80	M 20	199	30	18	5	56	56	36	3	16	24	24	780
GN 31-80-M20-199-B2-W	80	M 20	199	30	18	5	56	56	36	3	16	24	24	760
GN 31-80-M20-199-B3-W	80	M 20	199	30	18	5	56	56	36	3	16	24	24	780
GN 31-80-M20-199-B4-W	80	M 20	199	30	18	5	56	56	36	3	16	24	24	780
GN 31-80-M20-199-C3-W	80	M 20	199	30	18	5	56	56	36	3	16	24	24	780
GN 31-80-M20-199-C4-W	80	M 20	199	30	18	5	56	56	36	3	16	24	24	780
GN 31-80-M20-249-B1-W	80	M 20	249	30	18	5	56	56	36	3	16	24	24	940
GN 31-80-M20-249-B2-W	80	M 20	249	30	18	5	56	56	36	3	16	24	24	920
GN 31-80-M20-249-B3-W	80	M 20	249	30	18	5	56	56	36	3	16	24	24	940
GN 31-80-M20-249-B4-W	80	M 20	249	30	18	5	56	56	36	3	16	24	24	940
GN 31-80-M20-249-C3-W	80	M 20	249	30	18	5	56	56	36	3	16	24	24	940
GN 31-80-M20-249-C4-W	80	M 20	249	30	18	5	56	56	36	3	16	24	24	940
GN 31-80-M24-174-B1-W	80	M 24	174	35	18	5	67	67	42	3	20	30	24	1000
GN 31-80-M24-174-B2-W	80	M 24	174	35	18	5	67	67	42	3	20	30	24	992
GN 31-80-M24-174-B3-W	80	M 24	174	35	18	5	67	67	42	3	20	30	24	1000
GN 31-80-M24-174-B4-W	80	M 24	174	35	18	5	67	67	42	3	20	30	24	1000
GN 31-80-M24-174-C3-W	80	M 24	174	35	18	5	67	67	42	3	20	30	24	1000
GN 31-80-M24-174-C4-W	80	M 24	174	35	18	5	67	67	42	3	20	30	24	1000
GN 31-80-M24-224-B1-W	80	M 24	224	35	18	5	67	67	42	3	20	30	24	1200
GN 31-80-M24-224-B2-W	80	M 24	224	35	18	5	67	67	42	3	20	30	24	1170
GN 31-80-M24-224-B3-W	80	M 24	224	35	18	5	67	67	42	3	20	30	24	1200
GN 31-80-M24-224-B4-W	80	M 24	224	35	18	5	67	67	42	3	20	30	24	1200
GN 31-80-M24-224-C3-W	80	M 24	224	35	18	5	67	67	42	3	20	30	24	1200
GN 31-80-M24-224-C4-W	80	M 24	224	35	18	5	67	67	42	3	20	30	24	1200

GN 31-W

STAINLESS STEEL

Description	d1	d2	l3	d3	h1	h2	l4	l5	l6	s	A/F5	A/F6	Static load in kN	⚖
GN 31-80-M24-274-B1-W	80	M 24	274	35	18	5	67	67	42	3	20	30	24	1250
GN 31-80-M24-274-B2-W	80	M 24	274	35	18	5	67	67	42	3	20	30	24	1200
GN 31-80-M24-274-B3-W	80	M 24	274	35	18	5	67	67	42	3	20	30	24	1250
GN 31-80-M24-274-B4-W	80	M 24	274	35	18	5	67	67	42	3	20	30	24	1250
GN 31-80-M24-274-C3-W	80	M 24	274	35	18	5	67	67	42	3	20	30	24	1250
GN 31-80-M24-274-C4-W	80	M 24	274	35	18	5	67	67	42	3	20	30	24	1250
GN 31-100-M16-126-B1-W	100	M 16	126	24	20	6	45	45	29	3	12	20	21	633
GN 31-100-M16-126-B2-W	100	M 16	126	24	20	6	45	45	29	3	12	20	21	600
GN 31-100-M16-126-B3-W	100	M 16	126	24	20	6	45	45	29	3	12	20	21	633
GN 31-100-M16-126-B4-W	100	M 16	126	24	20	6	45	45	29	3	12	20	21	633
GN 31-100-M16-126-C3-W	100	M 16	126	24	20	6	45	45	29	3	12	20	21	633
GN 31-100-M16-126-C4-W	100	M 16	126	24	20	6	45	45	29	3	12	20	21	633
GN 31-100-M16-151-B1-W	100	M 16	151	24	20	6	45	45	29	3	12	20	21	725
GN 31-100-M16-151-B2-W	100	M 16	151	24	20	6	45	45	29	3	12	20	21	700
GN 31-100-M16-151-B3-W	100	M 16	151	24	20	6	45	45	29	3	12	20	21	725
GN 31-100-M16-151-B4-W	100	M 16	151	24	20	6	45	45	29	3	12	20	21	725
GN 31-100-M16-151-C3-W	100	M 16	151	24	20	6	45	45	29	3	12	20	21	725
GN 31-100-M16-151-C4-W	100	M 16	151	24	20	6	45	45	29	3	12	20	21	725
GN 31-100-M16-176-B1-W	100	M 16	176	24	20	6	45	45	29	3	12	20	21	800
GN 31-100-M16-176-B2-W	100	M 16	176	24	20	6	45	45	29	3	12	20	21	770
GN 31-100-M16-176-B3-W	100	M 16	176	24	20	6	45	45	29	3	12	20	21	800
GN 31-100-M16-176-B4-W	100	M 16	176	24	20	6	45	45	29	3	12	20	21	800
GN 31-100-M16-176-C3-W	100	M 16	176	24	20	6	45	45	29	3	12	20	21	800
GN 31-100-M16-176-C4-W	100	M 16	176	24	20	6	45	45	29	3	12	20	21	800
GN 31-100-M16-201-B1-W	100	M 16	201	24	20	6	45	45	29	3	12	20	21	700
GN 31-100-M16-201-B2-W	100	M 16	201	24	20	6	45	45	29	3	12	20	21	701
GN 31-100-M16-201-B3-W	100	M 16	201	24	20	6	45	45	29	3	12	20	21	700
GN 31-100-M16-201-B4-W	100	M 16	201	24	20	6	45	45	29	3	12	20	21	700
GN 31-100-M16-201-C3-W	100	M 16	201	24	20	6	45	45	29	3	12	20	21	700
GN 31-100-M16-201-C4-W	100	M 16	201	24	20	6	45	45	29	3	12	20	21	700
GN 31-100-M20-151-B1-W	100	M 20	151	30	20	6	56	56	36	3	16	24	21	987
GN 31-100-M20-151-B2-W	100	M 20	151	30	20	6	56	56	36	3	16	24	21	899
GN 31-100-M20-151-B3-W	100	M 20	151	30	20	6	56	56	36	3	16	24	21	987
GN 31-100-M20-151-B4-W	100	M 20	151	30	20	6	56	56	36	3	16	24	21	987
GN 31-100-M20-151-C3-W	100	M 20	151	30	20	6	56	56	36	3	16	24	21	987
GN 31-100-M20-151-C4-W	100	M 20	151	30	20	6	56	56	36	3	16	24	21	987
GN 31-100-M20-176-B1-W	100	M 20	176	30	20	6	56	56	36	3	16	24	21	1050
GN 31-100-M20-176-B2-W	100	M 20	176	30	20	6	56	56	36	3	16	24	21	962
GN 31-100-M20-176-B3-W	100	M 20	176	30	20	6	56	56	36	3	16	24	21	1050
GN 31-100-M20-176-B4-W	100	M 20	176	30	20	6	56	56	36	3	16	24	21	1050
GN 31-100-M20-176-C3-W	100	M 20	176	30	20	6	56	56	36	3	16	24	21	1050
GN 31-100-M20-176-C4-W	100	M 20	176	30	20	6	56	56	36	3	16	24	21	1050
GN 31-100-M20-201-B1-W	100	M 20	201	30	20	6	56	56	36	3	16	24	21	1113
GN 31-100-M20-201-B2-W	100	M 20	201	30	20	6	56	56	36	3	16	24	21	1025
GN 31-100-M20-201-B3-W	100	M 20	201	30	20	6	56	56	36	3	16	24	21	1113
GN 31-100-M20-201-B4-W	100	M 20	201	30	20	6	56	56	36	3	16	24	21	1113
GN 31-100-M20-201-C3-W	100	M 20	201	30	20	6	56	56	36	3	16	24	21	1113
GN 31-100-M20-201-C4-W	100	M 20	201	30	20	6	56	56	36	3	16	24	21	1113
GN 31-100-M20-251-B1-W	100	M 20	251	30	20	6	56	56	36	3	16	24	21	1190
GN 31-100-M20-251-B2-W	100	M 20	251	30	20	6	56	56	36	3	16	24	21	1140
GN 31-100-M20-251-B3-W	100	M 20	251	30	20	6	56	56	36	3	16	24	21	1190
GN 31-100-M20-251-B4-W	100	M 20	251	30	20	6	56	56	36	3	16	24	21	1190
GN 31-100-M20-251-C3-W	100	M 20	251	30	20	6	56	56	36	3	16	24	21	1190
GN 31-100-M20-251-C4-W	100	M 20	251	30	20	6	56	56	36	3	16	24	21	1190
GN 31-100-M24-176-B1-W	100	M 24	176	35	20	6	67	67	42	3	20	30	21	1271
GN 31-100-M24-176-B2-W	100	M 24	176	35	20	6	67	67	42	3	20	30	21	1183
GN 31-100-M24-176-B3-W	100	M 24	176	35	20	6	67	67	42	3	20	30	21	1271
GN 31-100-M24-176-B4-W	100	M 24	176	35	20	6	67	67	42	3	20	30	21	1271
GN 31-100-M24-176-C3-W	100	M 24	176	35	20	6	67	67	42	3	20	30	21	1271
GN 31-100-M24-176-C4-W	100	M 24	176	35	20	6	67	67	42	3	20	30	21	1271
GN 31-100-M24-226-B1-W	100	M 24	226	35	20	6	67	67	42	3	20	30	21	1370
GN 31-100-M24-226-B2-W	100	M 24	226	35	20	6	67	67	42	3	20	30	21	1361
GN 31-100-M24-226-B3-W	100	M 24	226	35	20	6	67	67	42	3	20	30	21	1370
GN 31-100-M24-226-B4-W	100	M 24	226	35	20	6	67	67	42	3	20	30	21	1370
GN 31-100-M24-226-C3-W	100	M 24	226	35	20	6	67	67	42	3	20	30	21	1370
GN 31-100-M24-226-C4-W	100	M 24	226	35	20	6	67	67	42	3	20	30	21	1370
GN 31-100-M24-276-B1-W	100	M 24	276	35	20	6	67	67	42	3	20	30	21	1528
GN 31-100-M24-276-B2-W	100	M 24	276	35	20	6	67	67	42	3	20	30	21	1510
GN 31-100-M24-276-B3-W	100	M 24	276	35	20	6	67	67	42	3	20	30	21	1528
GN 31-100-M24-276-B4-W	100	M 24	276	35	20	6	67	67	42	3	20	30	21	1528
GN 31-100-M24-276-C3-W	100	M 24	276	35	20	6	67	67	42	3	20	30	21	1528
GN 31-100-M24-276-C4-W	100	M 24	276	35	20	6	67	67	42	3	20	30	21	1528

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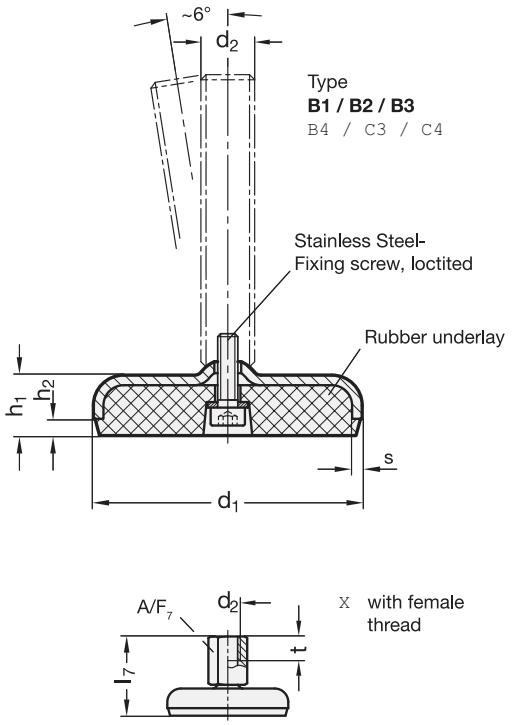

GN 31-X STAINLESS STEEL

Description	d1	d2	h1	h2	l7 +4.0/0	s	A/F7	t	Static load in kN	⚖
GN 31-50-M8-37-B1-X	50	M 8	14.5	3.5	37	3	14	8	8	110
GN 31-50-M8-37-B2-X	50	M 8	14.5	3.5	37	3	14	8	8	98
GN 31-50-M10-40-B1-X	50	M 10	14.5	3.5	40	3	14	10	13	112
GN 31-50-M10-40-B2-X	50	M 10	14.5	3.5	40	3	14	10	13	100
GN 31-50-M12-43-B1-X	50	M 12	14.5	3.5	43	3	17	12	20	120
GN 31-50-M12-43-B2-X	50	M 12	14.5	3.5	43	3	17	12	20	115
GN 31-50-M16-49-B1-X	50	M 16	14.5	3.5	49	3	22	16	28	140
GN 31-50-M16-49-B2-X	50	M 16	14.5	3.5	49	3	22	16	25	130
GN 31-60-M8-38-B1-X	60	M 8	16	4	38	3	14	8	8	150
GN 31-60-M8-38-B2-X	60	M 8	16	4	38	3	14	8	8	140
GN 31-60-M8-38-B3-X	60	M 8	16	4	38	3	14	8	8	150
GN 31-60-M8-38-B4-X	60	M 8	16	4	38	3	14	8	8	150
GN 31-60-M8-38-C3-X	60	M 8	16	4	38	3	14	8	8	150
GN 31-60-M8-38-C4-X	60	M 8	16	4	38	3	14	8	8	150
GN 31-60-M10-41-B1-X	60	M 10	16	4	41	3	14	10	13	152
GN 31-60-M10-41-B2-X	60	M 10	16	4	41	3	14	10	13	120
GN 31-60-M10-41-B3-X	60	M 10	16	4	41	3	14	10	13	152
GN 31-60-M10-41-B4-X	60	M 10	16	4	41	3	14	10	13	152
GN 31-60-M10-41-C3-X	60	M 10	16	4	41	3	14	10	13	152
GN 31-60-M10-41-C4-X	60	M 10	16	4	41	3	14	10	13	152
GN 31-60-M12-45-B1-X	60	M 12	16	4	45	3	17	12	20	160
GN 31-60-M12-45-B2-X	60	M 12	16	4	45	3	17	12	20	148
GN 31-60-M12-45-B3-X	60	M 12	16	4	45	3	17	12	20	160
GN 31-60-M12-45-B4-X	60	M 12	16	4	45	3	17	12	20	160
GN 31-60-M12-45-C3-X	60	M 12	16	4	45	3	17	12	20	160
GN 31-60-M12-45-C4-X	60	M 12	16	4	45	3	17	12	20	160
GN 31-60-M16-50-B1-X	60	M 16	16	4	50	3	22	16	28	267
GN 31-60-M16-50-B2-X	60	M 16	16	4	50	3	22	16	25	240
GN 31-60-M16-50-B3-X	60	M 16	16	4	50	3	22	16	28	267
GN 31-60-M16-50-B4-X	60	M 16	16	4	50	3	22	16	25	267
GN 31-60-M16-50-C3-X	60	M 16	16	4	50	3	22	16	28	267
GN 31-60-M16-50-C4-X	60	M 16	16	4	50	3	22	16	25	267
GN 31-80-M8-40-B1-X	80	M 8	18	5	40	3	14	8	8	377
GN 31-80-M8-40-B2-X	80	M 8	18	5	40	3	14	8	8	334
GN 31-80-M8-40-B3-X	80	M 8	18	5	40	3	14	8	8	377
GN 31-80-M8-40-B4-X	80	M 8	18	5	40	3	14	8	8	377
GN 31-80-M8-40-C3-X	80	M 8	18	5	40	3	14	8	8	377
GN 31-80-M8-40-C4-X	80	M 8	18	5	40	3	14	8	8	377

GN 31-X STAINLESS STEEL

Description	d1	d2	h1	h2	l7 +4.0/0	s	A/F7	t	Static load in kN	⚖
GN 31-80-M10-43-B1-X	80	M 10	18	5	43	3	14	10	13	390
GN 31-80-M10-43-B2-X	80	M 10	18	5	43	3	14	10	13	380
GN 31-80-M10-43-B3-X	80	M 10	18	5	43	3	14	10	13	390
GN 31-80-M10-43-B4-X	80	M 10	18	5	43	3	14	10	13	390
GN 31-80-M10-43-C3-X	80	M 10	18	5	43	3	14	10	13	390
GN 31-80-M10-43-C4-X	80	M 10	18	5	43	3	14	10	13	390
GN 31-80-M12-47-B1-X	80	M 12	18	5	47	3	17	12	15	410
GN 31-80-M12-47-B2-X	80	M 12	18	5	47	3	17	12	15	385
GN 31-80-M12-47-B3-X	80	M 12	18	5	47	3	17	12	15	410
GN 31-80-M12-47-B4-X	80	M 12	18	5	47	3	17	12	15	410
GN 31-80-M12-47-C3-X	80	M 12	18	5	47	3	17	12	15	410
GN 31-80-M12-47-C4-X	80	M 12	18	5	47	3	17	12	15	410
GN 31-80-M16-52-B1-X	80	M 16	18	5	52	3	22	16	19	430
GN 31-80-M16-52-B2-X	80	M 16	18	5	52	3	22	16	15	390
GN 31-80-M16-52-B3-X	80	M 16	18	5	52	3	22	16	19	430
GN 31-80-M16-52-B4-X	80	M 16	18	5	52	3	22	16	15	430
GN 31-80-M16-52-C3-X	80	M 16	18	5	52	3	22	16	19	430
GN 31-80-M16-52-C4-X	80	M 16	18	5	52	3	22	16	15	430
GN 31-80-M20-60-B1-X	80	M 20	18	5	60	3	27	20	19	460
GN 31-80-M20-60-B2-X	80	M 20	18	5	60	3	27	20	15	440
GN 31-80-M20-60-B3-X	80	M 20	18	5	60	3	27	20	19	460
GN 31-80-M20-60-B4-X	80	M 20	18	5	60	3	27	20	15	460
GN 31-80-M20-60-C3-X	80	M 20	18	5	60	3	27	20	19	460
GN 31-80-M20-60-C4-X	80	M 20	18	5	60	3	27	20	15	460
GN 31-100-M8-42-B1-X	100	M 8	20	6	42	3	14	8	8	500
GN 31-100-M8-42-B2-X	100	M 8	20	6	42	3	14	8	8	480
GN 31-100-M8-42-B3-X	100	M 8	20	6	42	3	14	8	8	500
GN 31-100-M8-42-B4-X	100	M 8	20	6	42	3	14	8	8	500
GN 31-100-M8-42-C3-X	100	M 8	20	6	42	3	14	8	8	500
GN 31-100-M8-42-C4-X	100	M 8	20	6	42	3	14	8	8	500
GN 31-100-M10-45-B1-X	100	M 10	20	6	45	3	14	10	13	520
GN 31-100-M10-45-B2-X	100	M 10	20	6	45	3	14	10	13	490
GN 31-100-M10-45-B3-X	100	M 10	20	6	45	3	14	10	13	520
GN 31-100-M10-45-B4-X	100	M 10	20	6	45	3	14	10	13	520
GN 31-100-M10-45-C3-X	100	M 10	20	6	45	3	14	10	13	520
GN 31-100-M10-45-C4-X	100	M 10	20	6	45	3	14	10	13	520
GN 31-100-M12-49-B1-X	100	M 12	20	6	49	3	17	12	17	550
GN 31-100-M12-49-B2-X	100	M 12	20	6	49	3	17	12	14	530
GN 31-100-M12-49-B3-X	100	M 12	20	6	49	3	17	12	17	550
GN 31-100-M12-49-B4-X	100	M 12	20	6	49	3	17	12	14	550
GN 31-100-M12-49-C3-X	100	M 12	20	6	49	3	17	12	17	550
GN 31-100-M12-49-C4-X	100	M 12	20	6	49	3	17	12	14	550
GN 31-100-M16-54-B1-X	100	M 16	20	6	54	3	22	16	17	590
GN 31-100-M16-54-B2-X	100	M 16	20	6	54	3	22	16	14	580
GN 31-100-M16-54-B3-X	100	M 16	20	6	54	3	22	16	17	590
GN 31-100-M16-54-B4-X	100	M 16	20	6	54	3	22	16	14	590
GN 31-100-M16-54-C3-X	100	M 16	20	6	54	3	22	16	17	590
GN 31-100-M16-54-C4-X	100	M 16	20	6	54	3	22	16	14	590
GN 31-100-M20-62-B1-X	100	M 20	20	6	62	3	27	20	17	600
GN 31-100-M20-62-B2-X	100	M 20	20	6	62	3	27	20	14	585
GN 31-100-M20-62-B3-X	100	M 20	20	6	62	3	27	20	17	600
GN 31-100-M20-62-B4-X	100	M 20	20	6	62	3	27	20	14	600
GN 31-100-M20-62-C3-X	100	M 20	20	6	62	3	27	20	17	600
GN 31-100-M20-62-C4-X	100	M 20	20	6	62	3	27	20	14	600
GN 31-120-M20-65-B1-X	120	M 20	22	6	62	4	27	20	25	800
GN 31-120-M20-65-B2-X	120	M 20	22	6	62	4	27	20	22	680

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Levelling feet

Requirements , design principles

DESIGN REQUIREMENTS FOR HYGIENIC DESIGN

Material

- Non-rusting Stainless Steels
- FDA and EU compliant plastics and elastomers

Surfaces

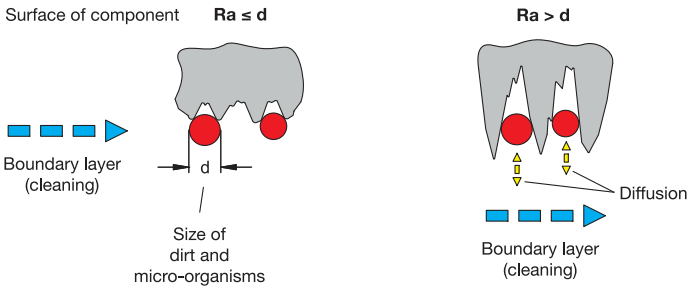
- Surfaces must be able to be cleaned
- Steps due to appliance configurations which are not aligned must be avoided
- Seals must be designed so that no gaps occur
- O-ring grooves must be hygienically designed
- Contact with the product to be manufactured must be ruled out
- Corners should preferably have a radius of 6 mm or more

Design / Geometry

The interior and exterior areas of all appliances, components or piping must be self-draining or be able to be drained and easy to clean.

Surface properties and roughness

Easy to clean with Ra < 0.8 µm



DESIGN PRINCIPLES FOR HYGIENIC DESIGN

EHEDG

- European Hygienic Engineering & Design Group
- non-profit European consortium of machine and food manufacturers
- as well their suppliers, research institutes, universities and government health agencies
- approximately 45 guidelines
- examination of products and issue of certificates

3-A Sanitary Standard, Inc.

- non profit and independent association in the USA
- three interest groups:
  public and governmental health agencies, machine and food manufacturers
- over 70 Sanitary Standards
- examination of designs and processes, issue of certificates

88-00

LEGAL BASIS OF HYGIENIC DESIGN

EN 1672-2:2009 “Food machinery”

Machines must be able to be cleaned, i.e. they must be designed and constructed so that dirt can be removed with the recommended cleaning methods.

Machinery directive 2006/42/EC

Machines must be designed so that
- materials can be easily and fully cleaned before each use and
- no risk of infections or illness is created.

DIN EN ISO 14519:2008-07

Hygiene requirements for the design of machines

DIN EN 1672:2009-07

Food machinery – General design principles – Part 2

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SEALS

For the standard parts which are listed in Hygienic Design, seals have the central function of protecting dead spaces, gaps and cracks from the penetration of cleaning fluids or product residues.

For this, a defined pre-tension or pressing of the seals and wipers is necessary for a reliable and permanent seal in the installed condition. Within the Hygienic Design product family, seal installation spaces and seal cross sections are calculated and designed with simulation software, so that the necessary surface compression is achieved on installation and the seal material is not subjected to excess pressure.

A fundamental differentiation can be made between static and moving seals:

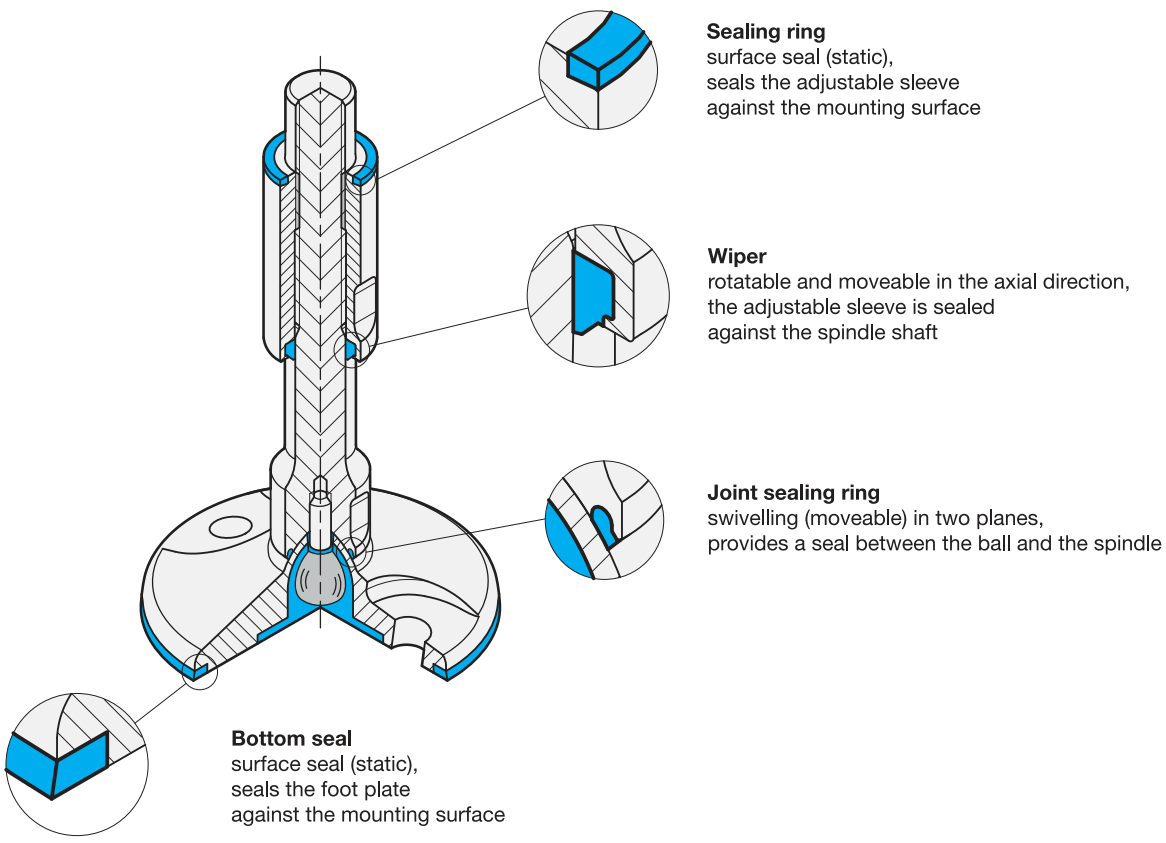
During assembly, the static seals in the design example shown below are tightened to the mounting surface at the top (sealing ring) and to the contact surface at the bottom (bottom seal). It should be ensured that all surfaces which make contact with the seal have a surface finish of al least R_a 0.8 µm.

The moving seals on the adjustable sleeve (wiper) and the ball joint (joint sealing ring) of the foot are designed so that they allow adjustment in both height and angle. With these too, the installation space together with the cross section of the seal ensures a gap-free, pre-tensioned seal.

Depending on the version and the type of use, it may be the case that seals may need to be replaced in case of damage or for preventative maintenance. For this, Elesa and Ganter supplies the relevant seals as spare parts or offers these under GN 7600 (see www.elesa-ganter.com) as standard parts.

DESIGN OF THE LEVELLING FEET GN 20

The illustrated design of the GN 20 Hygienic Design levelling feet shows how the various seal configurations are arranged.



Sealing ring
surface seal (static),
seals the adjustable sleeve
against the mounting surface

Wiper
rotatable and moveable in the axial direction,
the adjustable sleeve is sealed
against the spindle shaft

Joint sealing ring
swivelling (moveable) in two planes,
provides a seal between the ball and the spindle

Bottom seal
surface seal (static),
seals the foot plate
against the mounting surface

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Levelling feet

Hygienic Design, with and without mounting holes

SPECIFICATION

Types

- Type **A**: without mounting holes
- Type **B**: with mounting holes

Spindle, adjustable sleeve, foot plate

- Stainless Steel AISI 304
- turned

Seals, blue, FDA compliant

Sealing ring
NBR, hardness 70 ±5 Shore A

Wiper
TPU, hardness 95 ±5 Shore A

Joint sealing ring
H-NBR, hardness 85 ±5 Shore A

Bottom seal
Silicon, hardness 85 ±5 Shore A

INFORMATION

GN 20 hygienic levelling feet are certified according to 3-A Sanitary Standard, Inc. guidelines and are intended for use in hygiene areas. In addition, the version with mounting holes (type B) is certified according to EHEDG guidelines.
The bottom seal protects the area beneath the foot plate from dirt. For this, the foot must be screwed on using the mounting holes and compressed accordingly. Hygienic fastenings and the correct position of the mounting holes are essential. The sealing ring above the adjustment sleeve enables fastening without dead space. Due to the wiper or the ball seal, the moving components are sealed against the environment.
The high quality finish prevents adherence of dirt and facilitates cleaning.
The values listed in the table for static load capacity refer to a purely vertical load in relation to the leveling foot. Under normal operating conditions bending loads or angular loads are not uncommon and result in a reduction of load capacity, which must be taken into consideration.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)

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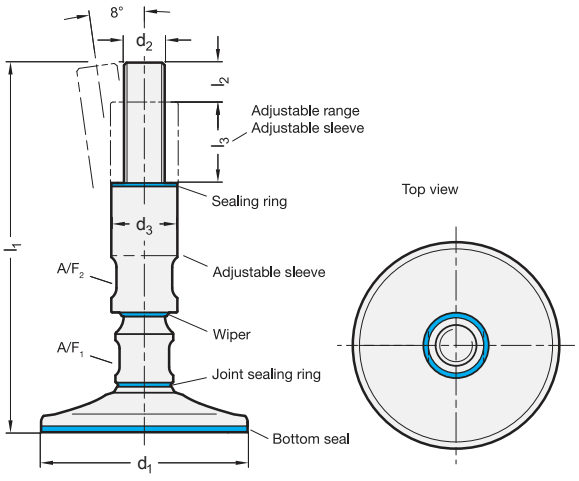

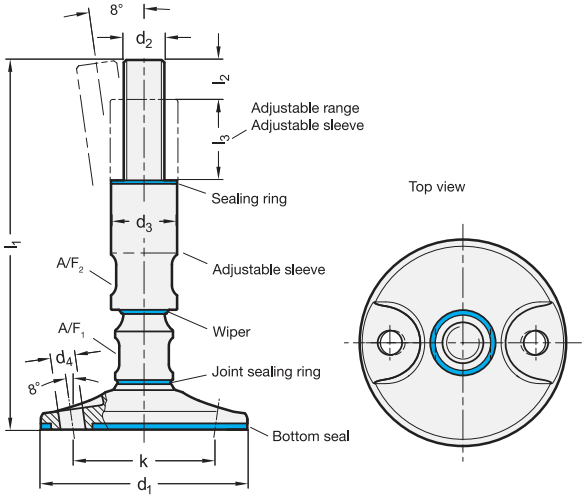

GN 20-A

STAINLESS STEEL

Description	d1	d2	l1	d3	l2	l3	A/F 1	A/F 2	Static load in kN	⚖
GN 20-80-M16-175-A	80	M 16	175	28	19	35	18	22	30	904
GN 20-80-M16-225-A	80	M 16	225	28	19	35	18	22	30	983
GN 20-80-M20-185-A	80	M 20	185	32	24	35	24	27	47	1115
GN 20-80-M20-235-A	80	M 20	235	32	24	35	24	27	47	1243
GN 20-80-M24-185-A	80	M 24	185	36	29	35	24	30	67	1284
GN 20-80-M24-235-A	80	M 24	235	36	29	35	24	30	67	1458
GN 20-100-M16-175-A	100	M 16	175	28	19	35	18	22	30	1171
GN 20-100-M16-225-A	100	M 16	225	28	19	35	18	22	30	1252
GN 20-100-M20-185-A	100	M 20	185	32	24	35	24	27	47	1385
GN 20-100-M20-235-A	100	M 20	235	32	24	35	24	27	47	1513
GN 20-100-M24-185-A	100	M 24	185	36	29	35	24	30	67	1546
GN 20-100-M24-235-A	100	M 24	235	36	29	35	24	30	67	1726
GN 20-120-M16-175-A	120	M 16	175	28	19	35	18	22	30	1465
GN 20-120-M16-225-A	120	M 16	225	28	19	35	18	22	30	1549
GN 20-120-M20-185-A	120	M 20	185	32	24	35	24	27	47	1691
GN 20-120-M20-235-A	120	M 20	235	32	24	35	24	27	47	1818
GN 20-120-M24-185-A	120	M 24	185	36	29	35	24	30	67	1853
GN 20-120-M24-235-A	120	M 24	235	36	29	35	24	30	67	2031

GN 20-B

STAINLESS STEEL

Description	d1	d2	l1	d3	d4	l2	l3	k	A/F 1	A/F 2	Static load in kN	⚖
GN 20-100-M16-175-B	100	M 16	175	28	12	19	35	69	18	22	30	1113
GN 20-100-M16-225-B	100	M 16	225	28	12	19	35	69	18	22	30	1193
GN 20-100-M20-185-B	100	M 20	185	32	12	24	35	69	24	27	47	1325
GN 20-100-M20-235-B	100	M 20	235	32	12	24	35	69	24	27	47	1455
GN 20-100-M24-185-B	100	M 24	185	36	12	29	35	69	24	30	67	1487
GN 20-100-M24-235-B	100	M 24	235	36	12	29	35	69	24	30	67	1668
GN 20-120-M16-175-B	120	M 16	175	28	12	19	35	89	18	22	30	1426
GN 20-120-M16-225-B	120	M 16	225	28	12	19	35	89	18	22	30	1508
GN 20-120-M20-185-B	120	M 20	185	32	12	24	35	89	24	27	47	1641
GN 20-120-M20-235-B	120	M 20	235	32	12	24	35	89	24	27	47	1765
GN 20-120-M24-185-B	120	M 24	185	36	12	29	35	89	24	30	67	1805
GN 20-120-M24-235-B	120	M 24	235	36	12	29	35	89	24	30	67	1980

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Stainless Steel-Levelling feet

with turned base plate, without mounting bore

SPECIFICATION

Types (Base plate)

- Type **DO**: fine turned, without rubber underlay
- Type **D1**: fine turned, with rubber underlay, inlaid, black

Versions of threaded stem

- Version **S**: without nut, external hexagon at the bottom
- Version **SK**: with nut, external hexagon at the bottom
- Version **T**: without nut, wrench flat at the bottom, "not dipping" version
- Version **TK**: with nut, wrench flat at the bottom, "not dipping" version
- Version **U**: without nut, hexagon socket at the top, wrench flat at the bottom
- Version **UK**: with nut, hexagon socket at the top, wrench flat at the bottom
- Version **V**: without nut, external hexagon at the top, wrench flat at the bottom
- Version **VK**: with nut, external hexagon at the top, wrench flat at the bottom
- Version **W**: with adjustable sleeve, hygienic version, wrench flat at the bottom
- Version **X**: with female thread, external hexagon

Base plate
Stainless Steel AISI 304

Threaded stem
Stainless Steel AISI 303

Hexagon nut ISO 4032
Stainless Steel AISI 304

Rubber underlay, inlaid
Perbunan® (NBR), 70 Shore A

INFORMATION

Stainless Steel-Levelling feet GN 21 will be delivered mounted and are not removable.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Elastomer characteristics (see page A32)

LOAD RATING OF STAINLESS STEEL-LEVELLING FEET

At a spindle thread size M 10 and higher, the static load of the Stainless Steel-Levelling feet GN 21 is limited owing to the permissible contact pressure of the adjustment spindle acting on the base plate (at a spindle strength ≥ 500 N/mm^2). The values given in the table (valid for type D0 without rubber underlay) assume a clean pressure load perpendicular to the base plate. Bending and buckling stress which often occurs in practice results in a lower load-bearing capacity of the adjustment spindle and may have to be taken into account.
The details given on strength are non-binding guide values without any liability. In general, they do not constitute a warranty or quality. The user must determine from case to case if a product is suitable for the intended purpose or use. Environmental factors may influence the stated values.

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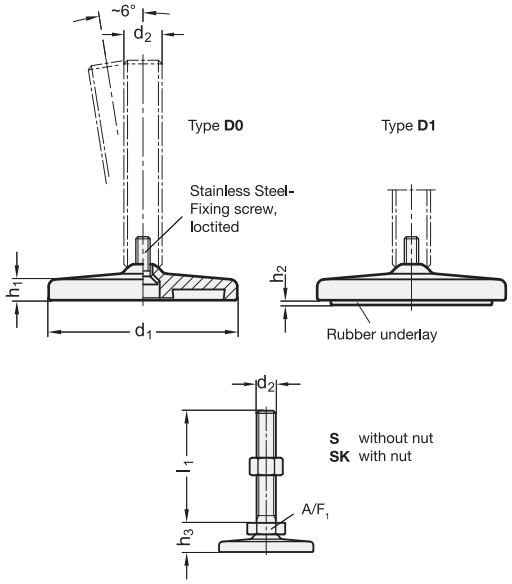
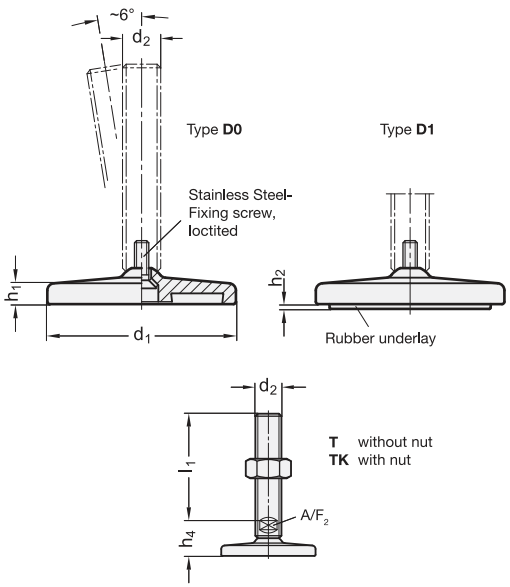
GN 21 | Stainless Steel-Levelling feet





*Complete with version of the Stainless Steel-Levelling feet (External hexagon at the bottom)

S without nut
SK with nut

*Complete with version of the Stainless Steel-Levelling feet (Wrench flat at the bottom)

T without nut
TK with nut

GN 21-S/SK

STAINLESS STEEL

Description	d1	d2	l1	h1	h2	h3	A/F 1	Static load in kN	⚖
GN 21-80-M8-40-D0-*	80	M 8	40	8.5	-	19.5	17	6	303
GN 21-80-M8-40-D1-*	80	M 8	40	8.5	2	19.5	17	6	283
GN 21-80-M8-50-D0-*	80	M 8	50	8.5	-	19.5	17	6	306
GN 21-80-M8-50-D1-*	80	M 8	50	8.5	2	19.5	17	6	331
GN 21-80-M8-63-D0-*	80	M 8	63	8.5	-	19.5	17	6	310
GN 21-80-M8-63-D1-*	80	M 8	63	8.5	2	19.5	17	6	310
GN 21-80-M10-50-D0-*	80	M 10	50	8.5	-	19.5	17	11	315
GN 21-80-M10-50-D1-*	80	M 10	50	8.5	2	19.5	17	11	340
GN 21-80-M10-60-D0-*	80	M 10	60	8.5	-	19.5	17	11	320
GN 21-80-M10-60-D1-*	80	M 10	60	8.5	2	19.5	17	11	345
GN 21-80-M10-80-D0-*	80	M 10	80	8.5	-	19.5	17	11	329
GN 21-80-M10-80-D1-*	80	M 10	80	8.5	2	19.5	17	11	354
GN 21-80-M10-100-D0-*	80	M 10	100	8.5	-	19.5	17	11	340
GN 21-80-M10-100-D1-*	80	M 10	100	8.5	2	19.5	17	11	365
GN 21-80-M12-60-D0-*	80	M 12	60	8.5	-	19.5	17	16	340
GN 21-80-M12-60-D1-*	80	M 12	60	8.5	2	19.5	17	16	360
GN 21-80-M12-80-D0-*	80	M 12	80	8.5	-	19.5	17	16	348
GN 21-80-M12-80-D1-*	80	M 12	80	8.5	2	19.5	17	16	373
GN 21-80-M12-100-D0-*	80	M 12	100	8.5	-	19.5	17	16	362
GN 21-80-M12-100-D1-*	80	M 12	100	8.5	2	19.5	17	16	387
GN 21-80-M12-125-D0-*	80	M 12	125	8.5	-	19.5	17	16	379
GN 21-80-M12-125-D1-*	80	M 12	125	8.5	2	19.5	17	16	404
GN 21-100-M8-40-D0-*	100	M 8	40	9	-	20.5	17	6	492
GN 21-100-M8-40-D1-*	100	M 8	40	9	3	20.5	17	6	500
GN 21-100-M8-50-D0-*	100	M 8	50	9	-	20.5	17	6	495
GN 21-100-M8-50-D1-*	100	M 8	50	9	3	20.5	17	6	548
GN 21-100-M8-63-D0-*	100	M 8	63	9	-	20.5	17	6	499
GN 21-100-M8-63-D1-*	100	M 8	63	9	3	20.5	17	6	552
GN 21-100-M10-50-D0-*	100	M 10	50	9	-	20.5	17	11	504
GN 21-100-M10-50-D1-*	100	M 10	50	9	3	20.5	17	11	558
GN 21-100-M10-60-D0-*	100	M 10	60	9	-	20.5	17	11	509
GN 21-100-M10-60-D1-*	100	M 10	60	9	3	20.5	17	11	562
GN 21-100-M10-80-D0-*	100	M 10	80	9	-	20.5	17	11	518
GN 21-100-M10-80-D1-*	100	M 10	80	9	3	20.5	17	11	571
GN 21-100-M10-100-D0-*	100	M 10	100	9	-	20.5	17	11	529
GN 21-100-M10-100-D1-*	100	M 10	100	9	3	20.5	17	11	583
GN 21-100-M12-60-D0-*	100	M 12	60	9	-	20.5	17	16	523
GN 21-100-M12-60-D1-*	100	M 12	60	9	3	20.5	17	16	576
GN 21-100-M12-80-D0-*	100	M 12	80	9	-	20.5	17	16	537
GN 21-100-M12-80-D1-*	100	M 12	80	9	3	20.5	17	16	590
GN 21-100-M12-100-D0-*	100	M 12	100	9	-	20.5	17	16	551
GN 21-100-M12-100-D1-*	100	M 12	100	9	3	20.5	17	16	605
GN 21-100-M12-125-D0-*	100	M 12	125	9	-	20.5	17	16	568
GN 21-100-M12-125-D1-*	100	M 12	125	9	3	20.5	17	16	622

Weight Version S

GN 21-T/TK

STAINLESS STEEL

Description	d1	d2	l1	h1	h2	h4	A/F 2	Static load in kN	⚖
GN 21-80-M16-75-D0-*	80	M 16	75	8.5	-	25.5	12	17	400
GN 21-80-M16-75-D1-*	80	M 16	75	8.5	2	25.5	12	17	417
GN 21-80-M16-100-D0-*	80	M 16	100	8.5	-	25.5	12	17	425
GN 21-80-M16-100-D1-*	80	M 16	100	8.5	2	25.5	12	17	450
GN 21-80-M16-125-D0-*	80	M 16	125	8.5	-	25.5	12	17	457
GN 21-80-M16-125-D1-*	80	M 16	125	8.5	2	25.5	12	17	482
GN 21-80-M16-150-D0-*	80	M 16	150	8.5	-	25.5	12	17	489
GN 21-80-M16-150-D1-*	80	M 16	150	8.5	2	25.5	12	17	514
GN 21-80-M16-200-D0-*	80	M 16	200	8.5	-	25.5	12	17	432
GN 21-80-M16-200-D1-*	80	M 16	200	8.5	2	25.5	12	17	437
GN 21-80-M20-75-D0-*	80	M 20	75	8.5	-	27	15	28	454
GN 21-80-M20-75-D1-*	80	M 20	75	8.5	2	27	15	28	479
GN 21-80-M20-100-D0-*	80	M 20	100	8.5	-	27	15	28	513
GN 21-80-M20-100-D1-*	80	M 20	100	8.5	2	27	15	28	538
GN 21-80-M20-125-D0-*	80	M 20	125	8.5	-	27	15	28	564
GN 21-80-M20-125-D1-*	80	M 20	125	8.5	2	27	15	28	589
GN 21-80-M20-150-D0-*	80	M 20	150	8.5	-	27	15	28	614
GN 21-80-M20-150-D1-*	80	M 20	150	8.5	2	27	15	28	639
GN 21-80-M20-200-D0-*	80	M 20	200	8.5	-	27	15	28	714
GN 21-80-M20-200-D1-*	80	M 20	200	8.5	2	27	15	28	739
GN 21-80-M24-100-D0-*	80	M 24	100	8.5	-	30.5	19	46	629
GN 21-80-M24-100-D1-*	80	M 24	100	8.5	2	30.5	19	46	654
GN 21-80-M24-125-D0-*	80	M 24	125	8.5	-	30.5	19	46	709
GN 21-80-M24-125-D1-*	80	M 24	125	8.5	2	30.5	19	46	734
GN 21-80-M24-150-D0-*	80	M 24	150	8.5	-	30.5	19	46	775
GN 21-80-M24-150-D1-*	80	M 24	150	8.5	2	30.5	19	46	800
GN 21-80-M24-200-D0-*	80	M 24	200	8.5	-	30.5	19	46	821
GN 21-80-M24-200-D1-*	80	M 24	200	8.5	2	30.5	19	46	846
GN 21-100-M16-75-D0-*	100	M 16	75	9	-	26.5	12	17	581
GN 21-100-M16-75-D1-*	100	M 16	75	9	3	26.5	12	17	640
GN 21-100-M16-100-D0-*	100	M 16	100	9	-	26.5	12	17	614
GN 21-100-M16-100-D1-*	100	M 16	100	9	3	26.5	12	17	660
GN 21-100-M16-125-D0-*	100	M 16	125	9	-	26.5	12	17	646
GN 21-100-M16-125-D1-*	100	M 16	125	9	3	26.5	12	17	699
GN 21-100-M16-150-D0-*	100	M 16	150	9	-	26.5	12	17	678
GN 21-100-M16-150-D1-*	100	M 16	150	9	3	26.5	12	17	731
GN 21-100-M16-200-D0-*	100	M 16	200	9	-	26.5	12	17	1021
GN 21-100-M16-200-D1-*	100	M 16	200	9	3	26.5	12	17	780
GN 21-100-M20-75-D0-*	100	M 20	75	9	-	28	15	28	635
GN 21-100-M20-75-D1-*	100	M 20	75	9	3	28	15	28	688
GN 21-100-M20-100-D0-*	100	M 20	100	9	-	28	15	28	694
GN 21-100-M20-100-D1-*	100	M 20	100	9	3	28	15	28	747
GN 21-100-M20-125-D0-*	100	M 20	125	9	-	28	15	28	744
GN 21-100-M20-125-D1-*	100	M 20	125	9	3	28	15	28	798

Weight Version T

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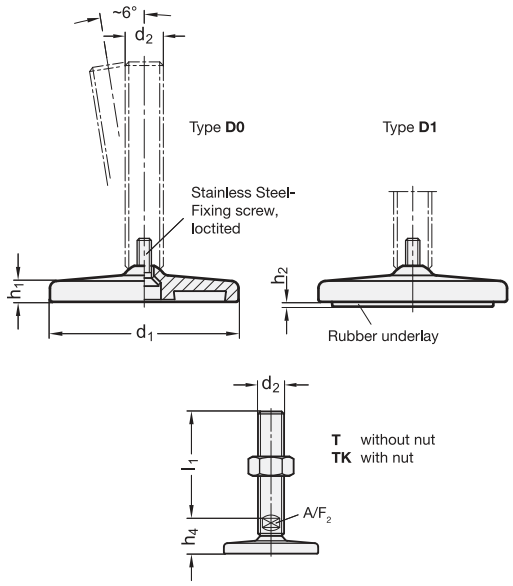

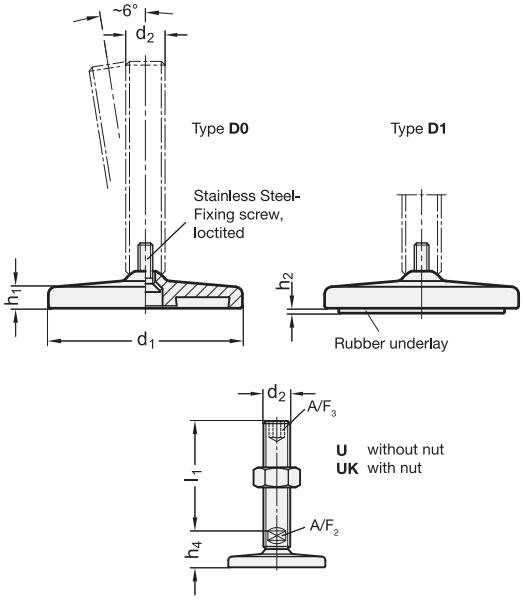

*Complete with version of the Stainless Steel-Levelling feet (Wrench flat at the bottom)

T without nut

TK with nut

*Complete with version of the Levelling feet (Hexagon socket at the top / Wrench at the bottom)

U without nut

UK with nut

GN 21-T/TK

STAINLESS STEEL

Description	d1	d2	l1	h1	h2	h4	A/F 2	Static load in kN	⚖
GN 21-100-M20-150-D0-*	100	M 20	150	9	-	28	15	28	795
GN 21-100-M20-150-D1-*	100	M 20	150	9	3	28	15	28	848
GN 21-100-M20-200-D0-*	100	M 20	200	9	-	28	15	28	895
GN 21-100-M20-200-D1-*	100	M 20	200	9	3	28	15	28	948
GN 21-100-M24-100-D0-*	100	M 24	100	9	-	31.5	19	46	814
GN 21-100-M24-100-D1-*	100	M 24	100	9	3	31.5	19	46	867
GN 21-100-M24-125-D0-*	100	M 24	125	9	-	31.5	19	46	894
GN 21-100-M24-125-D1-*	100	M 24	125	9	3	31.5	19	46	947
GN 21-100-M24-125-D1-*	100	M 24	125	9	3	31.5	19	46	947
GN 21-100-M24-150-D0-*	100	M 24	150	9	-	31.5	19	46	960
GN 21-100-M24-150-D1-*	100	M 24	150	9	3	31.5	19	46	1013
GN 21-100-M24-200-D0-*	100	M 24	200	9	-	31.5	19	46	1106
GN 21-100-M24-200-D1-*	100	M 24	200	9	3	31.5	19	46	1159
GN 21-120-M20-75-D0-*	120	M 20	75	12	-	32	15	28	988
GN 21-120-M20-75-D1-*	120	M 20	75	12	3.5	32	15	28	1094
GN 21-120-M20-100-D0-*	120	M 20	100	12	-	32	15	28	1050
GN 21-120-M20-100-D1-*	120	M 20	100	12	3.5	32	15	28	1100
GN 21-120-M20-125-D0-*	120	M 20	125	12	-	32	15	28	1097
GN 21-120-M20-125-D1-*	120	M 20	125	12	3.5	32	15	28	1203
GN 21-120-M20-150-D0-*	120	M 20	150	12	-	32	15	28	1148
GN 21-120-M20-150-D1-*	120	M 20	150	12	3.5	32	15	28	1254
GN 21-120-M20-200-D0-*	120	M 20	200	12	-	32	15	28	1248
GN 21-120-M20-200-D1-*	120	M 20	200	12	3.5	32	15	28	1354
GN 21-120-M24-100-D0-*	120	M 24	100	12	-	35.5	19	46	1164
GN 21-120-M24-100-D1-*	120	M 24	100	12	3.5	35.5	19	46	1360
GN 21-120-M24-125-D0-*	120	M 24	125	12	-	35.5	19	46	1244
GN 21-120-M24-125-D1-*	120	M 24	125	12	3.5	35.5	19	46	1380
GN 21-120-M24-150-D0-*	120	M 24	150	12	-	35.5	19	46	1309
GN 21-120-M24-150-D1-*	120	M 24	150	12	3.5	35.5	19	46	1415
GN 21-120-M24-200-D0-*	120	M 24	200	12	-	35.5	19	46	1455
GN 21-120-M24-200-D1-*	120	M 24	200	12	3.5	35.5	19	46	1561
GN 21-120-M30-100-D0-*	120	M 30	100	12	-	39.5	24	43	1401
GN 21-120-M30-100-D1-*	120	M 30	100	12	3.5	39.5	24	43	1507
GN 21-120-M30-125-D0-*	120	M 30	125	12	-	39.5	24	43	1497
GN 21-120-M30-125-D1-*	120	M 30	125	12	3.5	39.5	24	43	1603
GN 21-120-M30-150-D0-*	120	M 30	150	12	-	39.5	24	43	1615
GN 21-120-M30-150-D1-*	120	M 30	150	12	3.5	39.5	24	43	1721
GN 21-120-M30-200-D0-*	120	M 30	200	12	-	39.5	24	43	1852
GN 21-120-M30-200-D1-*	120	M 30	200	12	3.5	39.5	24	43	1958

Weight Version T

GN 21-U/UK

STAINLESS STEEL

Description	d1	d2	l1	h1	h2	h4	A/F 2	A/F 3	Static load in kN	⚖
GN 21-80-M16-75-D0-*	80	M 16	75	8.5	-	25.5	12	8	17	387
GN 21-80-M16-75-D1-*	80	M 16	75	8.5	2	25.5	12	8	17	412
GN 21-80-M16-100-D0-*	80	M 16	100	8.5	-	25.5	12	8	17	419
GN 21-80-M16-100-D1-*	80	M 16	100	8.5	2	25.5	12	8	17	444
GN 21-80-M16-125-D0-*	80	M 16	125	8.5	-	25.5	12	8	17	452
GN 21-80-M16-125-D1-*	80	M 16	125	8.5	2	25.5	12	8	17	477
GN 21-80-M16-150-D0-*	80	M 16	150	8.5	-	25.5	12	8	17	484
GN 21-80-M16-150-D1-*	80	M 16	150	8.5	2	25.5	12	8	17	509
GN 21-80-M16-200-D0-*	80	M 16	200	8.5	-	25.5	12	8	17	551
GN 21-80-M16-200-D1-*	80	M 16	200	8.5	2	25.5	12	8	17	576
GN 21-80-M20-75-D0-*	80	M 20	75	8.5	-	27	15	10	28	454
GN 21-80-M20-75-D1-*	80	M 20	75	8.5	2	27	15	10	28	479
GN 21-80-M20-100-D0-*	80	M 20	100	8.5	-	27	15	10	28	460
GN 21-80-M20-100-D1-*	80	M 20	100	8.5	2	27	15	10	28	517
GN 21-80-M20-125-D0-*	80	M 20	125	8.5	-	27	15	10	28	555
GN 21-80-M20-125-D1-*	80	M 20	125	8.5	2	27	15	10	28	580
GN 21-80-M20-150-D0-*	80	M 20	150	8.5	-	27	15	10	28	560
GN 21-80-M20-150-D1-*	80	M 20	150	8.5	2	27	15	10	28	608
GN 21-80-M20-200-D0-*	80	M 20	200	8.5	-	27	15	10	28	708
GN 21-80-M20-200-D1-*	80	M 20	200	8.5	2	27	15	10	28	733
GN 21-80-M24-100-D0-*	80	M 24	100	8.5	-	30.5	19	12	46	692
GN 21-80-M24-100-D1-*	80	M 24	100	8.5	2	30.5	19	12	46	717
GN 21-80-M24-125-D0-*	80	M 24	125	8.5	-	30.5	19	12	46	700
GN 21-80-M24-125-D1-*	80	M 24	125	8.5	2	30.5	19	12	46	760
GN 21-80-M24-150-D0-*	80	M 24	150	8.5	-	30.5	19	12	46	765
GN 21-80-M24-150-D1-*	80	M 24	150	8.5	2	30.5	19	12	46	790
GN 21-80-M24-200-D0-*	80	M 24	200	8.5	-	30.5	19	12	46	901
GN 21-80-M24-200-D1-*	80	M 24	200	8.5	2	30.5	19	12	46	926
GN 21-100-M16-75-D0-*	100	M 16	75	9	-	26.5	12	8	17	576
GN 21-100-M16-75-D1-*	100	M 16	75	9	3	26.5	12	8	17	629
GN 21-100-M16-100-D0-*	100	M 16	100	9	-	26.5	12	8	17	610
GN 21-100-M16-100-D1-*	100	M 16	100	9	3	26.5	12	8	17	660
GN 21-100-M16-125-D0-*	100	M 16	125	9	-	26.5	12	8	17	641
GN 21-100-M16-125-D1-*	100	M 16	125	9	3	26.5	12	8	17	694
GN 21-100-M16-150-D0-*	100	M 16	150	9	-	26.5	12	8	17	673
GN 21-100-M16-150-D1-*	100	M 16	150	9	3	26.5	12	8	17	726
GN 21-100-M16-200-D0-*	100	M 16	200	9	-	26.5	12	8	17	739
GN 21-100-M16-200-D1-*	100	M 16	200	9	3	26.5	12	8	17	793

Weight Version U

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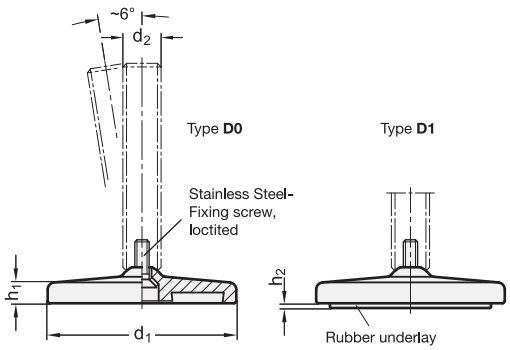

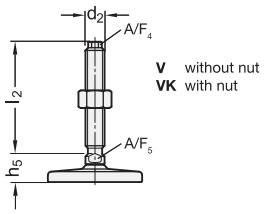

*Complete with version of the Levelling feet (Hexagon socket at the top / Wrench at the bottom)

U without nut — **UK** with nut

GN 21-U/UK

STAINLESS STEEL

Description	d1	d2	l1	h1	h2	h4	A/F 2	A/F 3	Static load in kN	⚖
GN 21-100-M20-75-D0-*	100	M 20	75	9	-	28	15	10	28	635
GN 21-100-M20-75-D1-*	100	M 20	75	9	3	28	15	10	28	688
GN 21-100-M20-100-D0-*	100	M 20	100	9	-	28	15	10	28	665
GN 21-100-M20-100-D1-*	100	M 20	100	9	3	28	15	10	28	710
GN 21-100-M20-125-D0-*	100	M 20	125	9	-	28	15	10	28	736
GN 21-100-M20-125-D1-*	100	M 20	125	9	3	28	15	10	28	789
GN 21-100-M20-150-D0-*	100	M 20	150	9	-	28	15	10	28	764
GN 21-100-M20-150-D1-*	100	M 20	150	9	3	28	15	10	28	817
GN 21-100-M20-200-D0-*	100	M 20	200	9	-	28	15	10	28	889
GN 21-100-M20-200-D1-*	100	M 20	200	9	3	28	15	10	28	942
GN 21-100-M24-100-D0-*	100	M 24	100	9	-	31.5	19	12	46	877
GN 21-100-M24-100-D1-*	100	M 24	100	9	3	31.5	19	12	46	930
GN 21-100-M24-125-D0-*	100	M 24	125	9	-	31.5	19	12	46	869
GN 21-100-M24-125-D1-*	100	M 24	125	9	3	31.5	19	12	46	950
GN 21-100-M24-150-D0-*	100	M 24	150	9	-	31.5	19	12	46	950
GN 21-100-M24-150-D1-*	100	M 24	150	9	3	31.5	19	12	46	1003
GN 21-100-M24-200-D0-*	100	M 24	200	9	-	31.5	19	12	46	1086
GN 21-100-M24-200-D1-*	100	M 24	200	9	3	31.5	19	12	46	1139
GN 21-120-M20-75-D0-*	120	M 20	75	12	-	32	15	10	28	988
GN 21-120-M20-75-D1-*	120	M 20	75	12	3.5	32	15	10	28	1094
GN 21-120-M20-100-D0-*	120	M 20	100	12	-	32	15	10	28	1226
GN 21-120-M20-100-D1-*	120	M 20	100	12	3.5	32	15	10	28	1332
GN 21-120-M20-125-D0-*	120	M 20	125	12	-	32	15	10	28	1089
GN 21-120-M20-125-D1-*	120	M 20	125	12	3.5	32	15	10	28	1195
GN 21-120-M20-150-D0-*	120	M 20	150	12	-	32	15	10	28	1117
GN 21-120-M20-150-D1-*	120	M 20	150	12	3.5	32	15	10	28	1223
GN 21-120-M20-200-D0-*	120	M 20	200	12	-	32	15	10	28	1242
GN 21-120-M20-200-D1-*	120	M 20	200	12	3.5	32	15	10	28	1348
GN 21-120-M24-100-D0-*	120	M 24	100	12	-	35.5	19	12	46	1227
GN 21-120-M24-100-D1-*	120	M 24	100	12	3.5	35.5	19	12	46	1333
GN 21-120-M24-125-D0-*	120	M 24	125	12	-	35.5	19	12	46	1219
GN 21-120-M24-125-D1-*	120	M 24	125	12	3.5	35.5	19	12	46	1325
GN 21-120-M24-150-D0-*	120	M 24	150	12	-	35.5	19	12	46	1300
GN 21-120-M24-150-D1-*	120	M 24	150	12	3.5	35.5	19	12	46	1406
GN 21-120-M24-200-D0-*	120	M 24	200	12	-	35.5	19	12	46	1436
GN 21-120-M24-200-D1-*	120	M 24	200	12	3.5	35.5	19	12	46	1542
GN 21-120-M30-100-D0-*	120	M 30	100	12	-	39.5	24	12	43	1352
GN 21-120-M30-100-D1-*	120	M 30	100	12	3.5	39.5	24	12	43	1458
GN 21-120-M30-125-D0-*	120	M 30	125	12	-	39.5	24	12	43	1468
GN 21-120-M30-125-D1-*	120	M 30	125	12	3.5	39.5	24	12	43	1574
GN 21-120-M30-150-D0-*	120	M 30	150	12	-	39.5	24	12	43	1582
GN 21-120-M30-150-D1-*	120	M 30	150	12	3.5	39.5	24	12	43	1688
GN 21-120-M30-200-D0-*	120	M 30	200	12	-	39.5	24	12	43	1810
GN 21-120-M30-200-D1-*	120	M 30	200	12	3.5	39.5	24	12	43	1916

Weight Version U

*Complete with version of the Levelling feet (External hexagon socket on the top / Wrench flat at the bottom)

V without nut — **VK** with nut

GN 21-V/VK

STAINLESS STEEL

Description	d1	d2	l2	h1	h2	h5	A/F 4	A/F 5	Static load in kN	⚖
GN 21-80-M16-75-D0-*	80	M 16	75	8.5	-	21.5	10	12	21	387
GN 21-80-M16-75-D1-*	80	M 16	75	8.5	2	21.5	10	12	21	412
GN 21-80-M16-100-D0-*	80	M 16	100	8.5	-	21.5	10	12	21	417
GN 21-80-M16-100-D1-*	80	M 16	100	8.5	2	21.5	10	12	21	442
GN 21-80-M16-125-D0-*	80	M 16	125	8.5	-	21.5	10	12	21	449
GN 21-80-M16-125-D1-*	80	M 16	125	8.5	2	21.5	10	12	21	474
GN 21-80-M16-150-D0-*	80	M 16	150	8.5	-	21.5	10	12	21	482
GN 21-80-M16-150-D1-*	80	M 16	150	8.5	2	21.5	10	12	21	507
GN 21-80-M20-100-D0-*	80	M 20	100	8.5	-	23	13	16	35	510
GN 21-80-M20-100-D1-*	80	M 20	100	8.5	2	23	13	16	35	530
GN 21-80-M20-125-D0-*	80	M 20	125	8.5	-	23	13	16	35	555
GN 21-80-M20-125-D1-*	80	M 20	125	8.5	2	23	13	16	35	580
GN 21-80-M20-150-D0-*	80	M 20	150	8.5	-	23	13	16	35	607
GN 21-80-M20-150-D1-*	80	M 20	150	8.5	2	23	13	16	35	632
GN 21-80-M20-200-D0-*	80	M 20	200	8.5	-	23	13	16	35	640
GN 21-80-M20-200-D1-*	80	M 20	200	8.5	2	23	13	16	35	670
GN 21-80-M24-100-D0-*	80	M 24	100	8.5	-	26	17	20	52	680
GN 21-80-M24-100-D1-*	80	M 24	100	8.5	2	26	17	20	52	700
GN 21-80-M24-150-D0-*	80	M 24	150	8.5	-	26	17	20	52	763
GN 21-80-M24-150-D1-*	80	M 24	150	8.5	2	26	17	20	52	788
GN 21-80-M24-200-D0-*	80	M 24	200	8.5	-	26	17	20	52	909
GN 21-80-M24-200-D1-*	80	M 24	200	8.5	2	26	17	20	52	934
GN 21-100-M16-75-D0-*	100	M 16	75	9	-	22.5	10	12	21	576
GN 21-100-M16-75-D1-*	100	M 16	75	9	3	22.5	10	12	21	622
GN 21-100-M16-100-D0-*	100	M 16	100	9	-	22.5	10	12	21	606
GN 21-100-M16-100-D1-*	100	M 16	100	9	3	22.5	10	12	21	659
GN 21-100-M16-125-D0-*	100	M 16	125	9	-	22.5	10	12	21	638
GN 21-100-M16-125-D1-*	100	M 16	125	9	3	22.5	10	12	21	691
GN 21-100-M16-150-D0-*	100	M 16	150	9	-	22.5	10	12	21	671
GN 21-100-M16-150-D1-*	100	M 16	150	9	3	22.5	10	12	21	724
GN 21-100-M20-100-D0-*	100	M 20	100	9	-	24	13	16	35	685
GN 21-100-M20-100-D1-*	100	M 20	100	9	3	24	13	16	35	738
GN 21-100-M20-125-D0-*	100	M 20	125	9	-	24	13	16	35	736
GN 21-100-M20-125-D1-*	100	M 20	125	9	3	24	13	16	35	789
GN 21-100-M20-150-D0-*	100	M 20	150	9	-	24	13	16	35	788
GN 21-100-M20-150-D1-*	100	M 20	150	9	3	24	13	16	35	841
GN 21-100-M20-200-D0-*	100	M 20	200	9	-	24	13	16	35	893
GN 21-100-M20-200-D1-*	100	M 20	200	9	3	24	13	16	35	946
GN 21-100-M24-100-D0-*	100	M 24	100	9	-	27	17	20	52	800
GN 21-100-M24-100-D1-*	100	M 24	100	9	3	27	17	20	52	853
GN 21-100-M24-150-D0-*	100	M 24	150	9	-	27	17	20	52	948
GN 21-100-M24-150-D1-*	100	M 24	150	9	3	27	17	20	52	1001
GN 21-100-M24-200-D0-*	100	M 24	200	9	-	27	17	20	52	1094
GN 21-100-M24-200-D1-*	100	M 24	200	9	3	27	17	20	52	1147

Weight Version V

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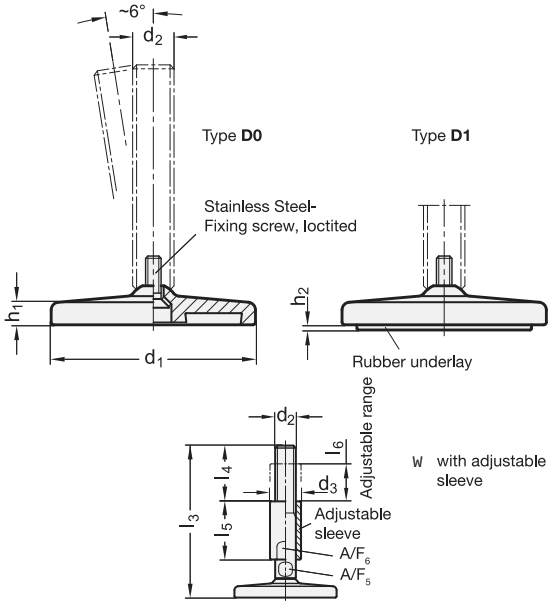
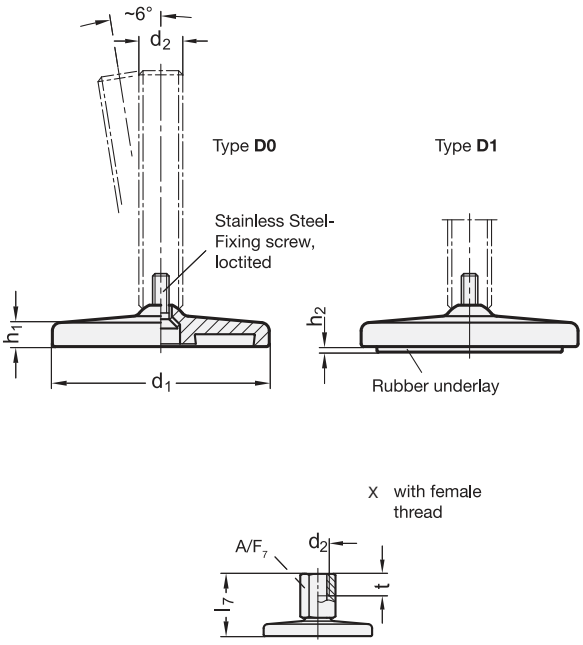
GN 21 | Stainless Steel-Levelling feet





GN 21-W

STAINLESS STEEL

Description	d1	d2	d3	l3 ≈	h1	h2	l4	l5	l6	A/F 5	A/F 6	Static load in kN	
GN 21-80-M16-118-D0-W	80	M 16	24	118	8.5	-	45	45	29	12	20	25	520
GN 21-80-M16-118-D1-W	80	M 16	24	118	8.5	2	45	45	29	12	20	25	540
GN 21-80-M16-143-D0-W	80	M 16	24	143	8.5	-	45	45	29	12	20	25	600
GN 21-80-M16-143-D1-W	80	M 16	24	143	8.5	2	45	45	29	12	20	25	620
GN 21-80-M16-168-D0-W	80	M 16	24	168	8.5	-	45	45	29	12	20	25	589
GN 21-80-M16-168-D1-W	80	M 16	24	168	8.5	2	45	45	29	12	20	25	614
GN 21-80-M16-193-D0-W	80	M 16	24	193	8.5	-	45	45	29	12	20	25	628
GN 21-80-M16-193-D1-W	80	M 16	24	193	8.5	2	45	45	29	12	20	25	653
GN 21-80-M20-143-D0-W	80	M 20	30	143	8.5	-	56	56	36	16	24	35	734
GN 21-80-M20-143-D1-W	80	M 20	30	143	8.5	2	56	56	36	16	24	35	759
GN 21-80-M20-168-D0-W	80	M 20	30	168	8.5	-	56	56	36	16	24	35	800
GN 21-80-M20-168-D1-W	80	M 20	30	168	8.5	2	56	56	36	16	24	35	823
GN 21-80-M20-193-D0-W	80	M 20	30	193	8.5	-	56	56	36	16	24	35	860
GN 21-80-M20-193-D1-W	80	M 20	30	193	8.5	2	56	56	36	16	24	35	885
GN 21-80-M20-243-D0-W	80	M 20	30	243	8.5	-	56	56	36	16	24	35	984
GN 21-80-M20-243-D1-W	80	M 20	30	243	8.5	2	56	56	36	16	24	35	1009
GN 21-80-M24-168-D0-W	80	M 24	35	168	8.5	-	67	67	42	20	30	52	1044
GN 21-80-M24-168-D1-W	80	M 24	35	168	8.5	2	67	67	42	20	30	52	1069
GN 21-80-M24-218-D0-W	80	M 24	35	218	8.5	-	67	67	42	20	30	52	1200
GN 21-80-M24-218-D1-W	80	M 24	35	218	8.5	2	67	67	42	20	30	52	1247
GN 21-80-M24-268-D0-W	80	M 24	35	268	8.5	-	67	67	42	20	30	52	1401
GN 21-80-M24-268-D1-W	80	M 24	35	268	8.5	2	67	67	42	20	30	52	1426
GN 21-100-M16-119-D0-W	100	M 16	24	119	9	-	45	45	32	12	20	25	699
GN 21-100-M16-119-D1-W	100	M 16	24	119	9	3	45	45	32	12	20	25	753
GN 21-100-M16-144-D0-W	100	M 16	24	144	9	-	45	45	32	12	20	25	800
GN 21-100-M16-144-D1-W	100	M 16	24	144	9	3	45	45	32	12	20	25	820
GN 21-100-M16-169-D0-W	100	M 16	24	169	9	-	45	45	32	12	20	25	777
GN 21-100-M16-169-D1-W	100	M 16	24	169	9	3	45	45	32	12	20	25	831
GN 21-100-M16-194-D0-W	100	M 16	24	194	9	-	45	45	32	12	20	25	817
GN 21-100-M16-194-D1-W	100	M 16	24	194	9	3	45	45	32	12	20	25	840
GN 21-100-M20-144-D0-W	100	M 20	30	144	9	-	56	56	40	16	24	35	915
GN 21-100-M20-144-D1-W	100	M 20	30	144	9	3	56	56	40	16	24	35	948
GN 21-100-M20-169-D0-W	100	M 20	30	169	9	-	56	56	40	16	24	35	1000
GN 21-100-M20-169-D1-W	100	M 20	30	169	9	3	56	56	40	16	24	35	1032
GN 21-100-M20-194-D0-W	100	M 20	30	194	9	-	56	56	40	16	24	35	1041
GN 21-100-M20-194-D1-W	100	M 20	30	194	9	3	56	56	40	16	24	35	1094
GN 21-100-M20-244-D0-W	100	M 20	30	244	9	-	56	56	40	16	24	35	1165
GN 21-100-M20-244-D1-W	100	M 20	30	244	9	3	56	56	40	16	24	35	1218
GN 21-100-M24-169-D0-W	100	M 24	35	169	9	-	67	67	48	20	30	52	1200
GN 21-100-M24-169-D1-W	100	M 24	35	169	9	3	67	67	48	20	30	52	1282
GN 21-100-M24-219-D0-W	100	M 24	35	219	9	-	67	67	48	20	30	52	1407
GN 21-100-M24-219-D1-W	100	M 24	35	219	9	3	67	67	48	20	30	52	1460
GN 21-100-M24-269-D0-W	100	M 24	35	269	9	-	67	67	48	20	30	52	1580
GN 21-100-M24-269-D1-W	100	M 24	35	269	9	3	67	67	48	20	30	52	1639

GN 21-X

STAINLESS STEEL

Description	d1	d2	l7	h1	h2	A/F 7	t	Static load in kN	
GN 21-80-M8-34-D0-X	80	M 8	34	8.5	-	14	8	17	324
GN 21-80-M8-34-D1-X	80	M 8	34	8.5	2	14	8	17	349
GN 21-80-M10-37-D0-X	80	M 10	37	8.5	-	14	10	17	320
GN 21-80-M10-37-D1-X	80	M 10	37	8.5	2	14	10	17	349
GN 21-80-M12-40-D0-X	80	M 12	40	8.5	-	17	12	17	300
GN 21-80-M12-40-D1-X	80	M 12	40	8.5	2	17	12	17	340
GN 21-80-M16-46-D0-X	80	M 16	46	8.5	-	22	16	17	313
GN 21-80-M16-46-D1-X	80	M 16	46	8.5	2	22	16	17	380
GN 21-80-M20-54-D0-X	80	M 20	54	8.5	-	27	20	28	425
GN 21-80-M20-54-D1-X	80	M 20	54	8.5	2	27	20	28	450
GN 21-100-M8-35-D0-X	100	M 8	35	9	-	14	8	17	493
GN 21-100-M8-35-D1-X	100	M 8	35	9	3	14	8	17	500
GN 21-100-M10-38-D0-X	100	M 10	38	9	-	14	10	17	493
GN 21-100-M10-38-D1-X	100	M 10	38	9	3	14	10	17	546
GN 21-100-M12-41-D0-X	100	M 12	41	9	-	17	12	17	500
GN 21-100-M12-41-D1-X	100	M 12	41	9	3	17	12	17	562
GN 21-100-M16-47-D0-X	100	M 16	47	9	-	22	16	17	500
GN 21-100-M16-47-D1-X	100	M 16	47	9	3	22	16	17	560
GN 21-100-M20-55-D0-X	100	M 20	55	9	-	27	20	28	606
GN 21-100-M20-55-D1-X	100	M 20	55	9	3	27	20	28	660
GN 21-120-M20-59-D0-X	120	M 20	59	12	-	27	20	28	961
GN 21-120-M20-59-D1-X	120	M 20	59	12	3.5	27	20	28	1067

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Stainless Steel-Levelling feet

with turned base plated, with mounting holes

SPECIFICATION

Types (Base plate)

- Type **D0**: fine turned, without rubber underlay
- Type **D1**: fine turned, with rubber underlay, inlaid, black

Version of threaded stem

- Version **S**: without nut, external hexagon at the bottom
- Version **SK**: with nut, external hexagon at the bottom
- Version **T**: without nut, wrench flat at the bottom, "not dipping" version
- Version **TK**: with nut, wrench flat at the bottom, "not dipping" version
- Version **U**: without nut, hexagon socket at the top, wrench flat at the bottom
- Version **UK**: with nut, hexagon socket at the top, wrench flat at the bottom
- Version **V**: without nut, external hexagon at the top, wrench flat at the bottom
- Version **VK**: with nut, external hexagon at the top, wrench flat at the bottom
- Version **W**: with adjustable sleeve, Hygienic Version, wrench flat at the bottom
- Version **X**: with female thread, external hexagon

Base plate
Stainless Steel AISI 304

Threaded stem
Stainless Steel AISI 303

Hexagon nut ISO 4032
Stainless Steel AISI 304

Rubber underlay, inlaid
Perbunan® (NBR), 70 Shore A

INFORMATION

Stainless Steel-Levelling feet GN 23 will be delivered mounted and are not removable.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Elastomer characteristics (see page A32)

LOAD RATING OF STAINLESS STEEL-LEVELLING FEET

At a spindle thread size M 10 and higher, the static load of the Stainless Steel-Levelling feet GN 23 is limited owing to the permissible contact pressure of the adjustment spindle acting on the base plate (at a spindle strength ≥ 500 N/mm^2). The values given in the table (valid for type D0 without rubber underlay) assume a clean pressure load perpendicular to the base plate. Bending and buckling stress which often occurs in practice results in a lower load-bearing capacity of the adjustment spindle and may have to be taken into account.
The details given on strength are non-binding guide values without any liability. In general, they do not constitute a warranty of quality.
The user must determine from case to case if a product is suitable for the intended purpose or use. Environmental factors may influence the stated values.

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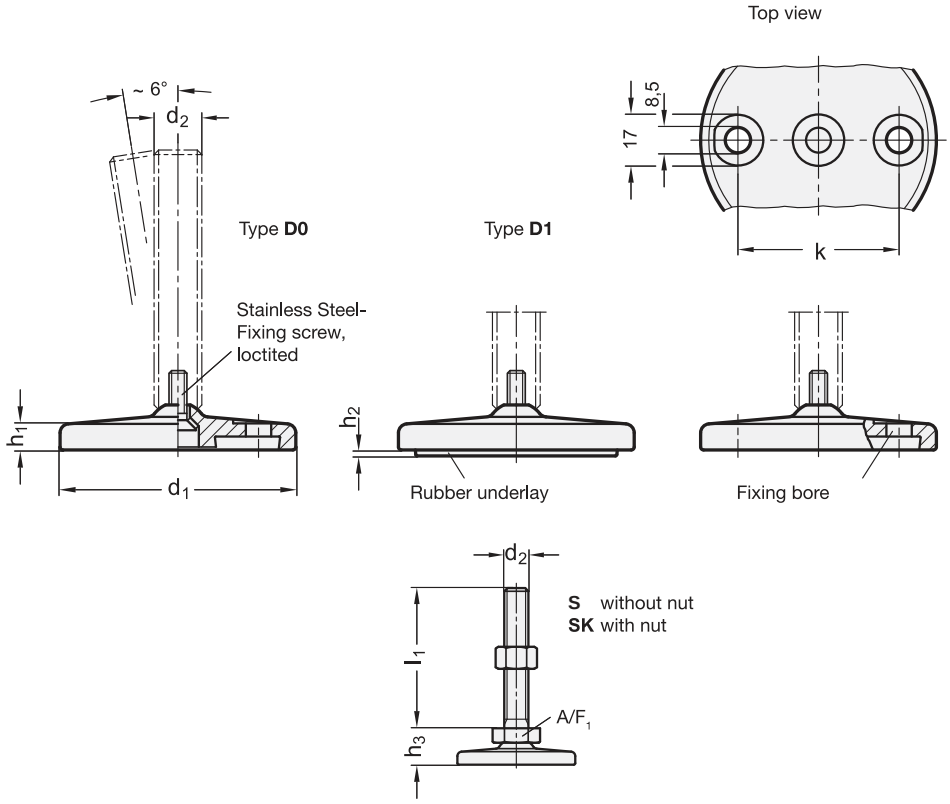
GN 23 | Stainless Steel-Levelling feet



*Complete with version of the Stainless Steel-Levelling feet (External hexagon at the bottom)

S without nut
SK with nut

GN 23-S/SK — **STAINLESS STEEL**

Description	d1	d2	l1	k	h1	h2	h3	A/F 1	Static load in kN	⚖
GN 23-80-M8-40-D0-*	80	M 8	40	54.5	8.5	-	19.5	17	6	250
GN 23-80-M8-40-D1-*	80	M 8	40	54.5	8.5	2	19.5	17	6	282
GN 23-80-M8-50-D0-*	80	M 8	50	54.5	8.5	-	19.5	17	6	306
GN 23-80-M8-50-D1-*	80	M 8	50	54.5	8.5	2	19.5	17	6	331
GN 23-80-M8-63-D0-*	80	M 8	63	54.5	8.5	-	19.5	17	6	368
GN 23-80-M8-63-D1-*	80	M 8	63	54.5	8.5	2	19.5	17	6	335
GN 23-80-M10-50-D0-*	80	M 10	50	54.5	8.5	-	19.5	17	11	320
GN 23-80-M10-50-D1-*	80	M 10	50	54.5	8.5	2	19.5	17	11	540
GN 23-80-M10-60-D0-*	80	M 10	60	54.5	8.5	-	19.5	17	11	367
GN 23-80-M10-60-D1-*	80	M 10	60	54.5	8.5	2	19.5	17	11	386
GN 23-80-M10-80-D0-*	80	M 10	80	54.5	8.5	-	19.5	17	11	376
GN 23-80-M10-80-D1-*	80	M 10	80	54.5	8.5	2	19.5	17	11	390
GN 23-80-M10-100-D0-*	80	M 10	100	54.5	8.5	-	19.5	17	11	387
GN 23-80-M10-100-D1-*	80	M 10	100	54.5	8.5	2	19.5	17	11	392
GN 23-80-M12-60-D0-*	80	M 12	60	54.5	8.5	-	19.5	17	16	340
GN 23-80-M12-60-D1-*	80	M 12	60	54.5	8.5	2	19.5	17	16	360
GN 23-80-M12-80-D0-*	80	M 12	80	54.5	8.5	-	19.5	17	16	360
GN 23-80-M12-80-D1-*	80	M 12	80	54.5	8.5	2	19.5	17	16	380
GN 23-80-M12-100-D0-*	80	M 12	100	54.5	8.5	-	19.5	17	16	382
GN 23-80-M12-100-D1-*	80	M 12	100	54.5	8.5	2	19.5	17	16	400
GN 23-80-M12-125-D0-*	80	M 12	125	54.5	8.5	-	19.5	17	16	352
GN 23-80-M12-125-D1-*	80	M 12	125	54.5	8.5	2	19.5	17	16	420

GN 23-S/SK — **STAINLESS STEEL**

Description	d1	d2	l1	k	h1	h2	h3	A/F 1	Static load in kN	⚖
GN 23-100-M8-40-D0-*	100	M 8	40	70.5	9	-	20.5	17	6	483
GN 23-100-M8-40-D1-*	100	M 8	40	70.5	9	3	20.5	17	6	536
GN 23-100-M8-50-D0-*	100	M 8	50	70.5	9	-	20.5	17	6	486
GN 23-100-M8-50-D1-*	100	M 8	50	70.5	9	3	20.5	17	6	539
GN 23-100-M8-63-D0-*	100	M 8	63	70.5	9	-	20.5	17	6	490
GN 23-100-M8-63-D1-*	100	M 8	63	70.5	9	3	20.5	17	6	543
GN 23-100-M10-50-D0-*	100	M 10	50	70.5	9	-	20.5	17	11	495
GN 23-100-M10-50-D1-*	100	M 10	50	70.5	9	3	20.5	17	11	549
GN 23-100-M10-60-D0-*	100	M 10	60	70.5	9	-	20.5	17	11	500
GN 23-100-M10-60-D1-*	100	M 10	60	70.5	9	3	20.5	17	11	553
GN 23-100-M10-80-D0-*	100	M 10	80	70.5	9	-	20.5	17	11	509
GN 23-100-M10-80-D1-*	100	M 10	80	70.5	9	3	20.5	17	11	562
GN 23-100-M10-100-D0-*	100	M 10	100	70.5	9	-	20.5	17	11	520
GN 23-100-M10-100-D1-*	100	M 10	100	70.5	9	3	20.5	17	11	574
GN 23-100-M12-60-D0-*	100	M 12	60	70.5	9	-	20.5	17	16	514
GN 23-100-M12-60-D1-*	100	M 12	60	70.5	9	3	20.5	17	16	567
GN 23-100-M12-80-D0-*	100	M 12	80	70.5	9	-	20.5	17	16	528
GN 23-100-M12-80-D1-*	100	M 12	80	70.5	9	3	20.5	17	16	581
GN 23-100-M12-100-D0-*	100	M 12	100	70.5	9	-	20.5	17	16	542
GN 23-100-M12-100-D1-*	100	M 12	100	70.5	9	3	20.5	17	16	596
GN 23-100-M12-125-D0-*	100	M 12	125	70.5	9	-	20.5	17	16	559
GN 23-100-M12-125-D1-*	100	M 12	125	70.5	9	3	20.5	17	16	613

Weight Version S

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GN 23 | Stainless Steel-Levelling feet

*Complete with version of the Stainless Steel-Levelling feet (Wrench flat at the bottom)

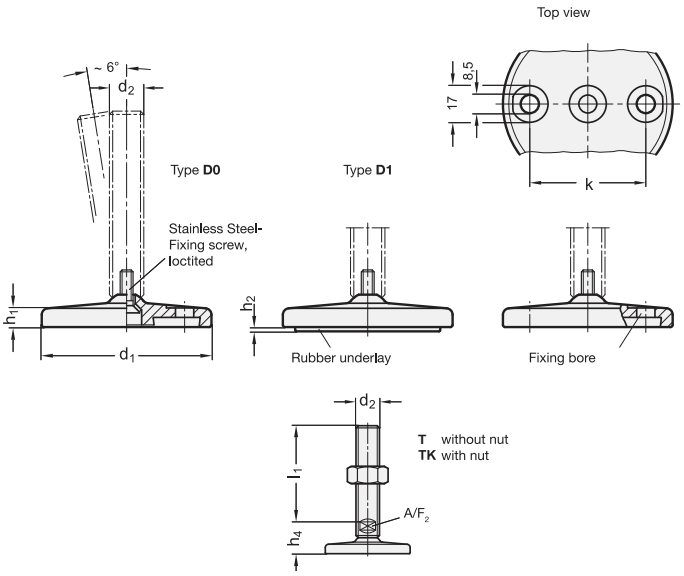
T without nut

TK with nut

GN 23-T/TK

STAINLESS STEEL

Description	d1	d2	l1	k	h1	h2	h4	A/F 2	Static load in kN	⚖
GN 23-80-M16-75-D0-*	80	M 16	75	54.5	8.5	-	25.5	12	17	114
GN 23-80-M16-75-D1-*	80	M 16	75	54.5	8.5	2	25.5	12	17	164
GN 23-80-M16-100-D0-*	80	M 16	100	54.5	8.5	-	25.5	12	17	172
GN 23-80-M16-100-D1-*	80	M 16	100	54.5	8.5	2	25.5	12	17	197
GN 23-80-M16-125-D0-*	80	M 16	125	54.5	8.5	-	25.5	12	17	460
GN 23-80-M16-125-D1-*	80	M 16	125	54.5	8.5	2	25.5	12	17	480
GN 23-80-M16-150-D0-*	80	M 16	150	54.5	8.5	-	25.5	12	17	495
GN 23-80-M16-150-D1-*	80	M 16	150	54.5	8.5	2	25.5	12	17	520
GN 23-80-M16-200-D0-*	80	M 16	200	54.5	8.5	-	25.5	12	17	580
GN 23-80-M16-200-D1-*	80	M 16	200	54.5	8.5	2	25.5	12	17	605
GN 23-80-M20-75-D0-*	80	M 20	75	54.5	8.5	-	27	15	28	448
GN 23-80-M20-75-D1-*	80	M 20	75	54.5	8.5	2	27	15	28	473
GN 23-80-M20-100-D0-*	80	M 20	100	54.5	8.5	-	27	15	28	507
GN 23-80-M20-100-D1-*	80	M 20	100	54.5	8.5	2	27	15	28	532
GN 23-80-M20-125-D0-*	80	M 20	125	54.5	8.5	-	27	15	28	558
GN 23-80-M20-125-D1-*	80	M 20	125	54.5	8.5	2	27	15	28	583
GN 23-80-M20-150-D0-*	80	M 20	150	54.5	8.5	-	27	15	28	608
GN 23-80-M20-150-D1-*	80	M 20	150	54.5	8.5	2	27	15	28	630
GN 23-80-M20-200-D0-*	80	M 20	200	54.5	8.5	-	27	15	28	708
GN 23-80-M20-200-D1-*	80	M 20	200	54.5	8.5	2	27	15	28	733
GN 23-80-M24-100-D0-*	80	M 24	100	54.5	8.5	-	30.5	19	46	607
GN 23-80-M24-100-D1-*	80	M 24	100	54.5	8.5	2	30.5	19	46	632
GN 23-80-M24-125-D0-*	80	M 24	125	54.5	8.5	-	30.5	19	46	687
GN 23-80-M24-125-D1-*	80	M 24	125	54.5	8.5	2	30.5	19	46	712
GN 23-80-M24-150-D0-*	80	M 24	150	54.5	8.5	-	30.5	19	46	753
GN 23-80-M24-150-D1-*	80	M 24	150	54.5	8.5	2	30.5	19	46	778
GN 23-80-M24-200-D0-*	80	M 24	200	54.5	8.5	-	30.5	19	46	899
GN 23-80-M24-200-D1-*	80	M 24	200	54.5	8.5	2	30.5	19	46	924
GN 23-100-M16-75-D0-*	100	M 16	75	70.5	9	-	26.5	12	17	572
GN 23-100-M16-75-D1-*	100	M 16	75	70.5	9	3	26.5	12	17	625
GN 23-100-M16-100-D0-*	100	M 16	100	70.5	9	-	26.5	12	17	605
GN 23-100-M16-100-D1-*	100	M 16	100	70.5	9	3	26.5	12	17	658
GN 23-100-M16-125-D0-*	100	M 16	125	70.5	9	-	26.5	12	17	637
GN 23-100-M16-125-D1-*	100	M 16	125	70.5	9	3	26.5	12	17	680
GN 23-100-M16-150-D0-*	100	M 16	150	70.5	9	-	26.5	12	17	669
GN 23-100-M16-150-D1-*	100	M 16	150	70.5	9	3	26.5	12	17	722
GN 23-100-M16-200-D0-*	100	M 16	200	70.5	9	-	26.5	12	17	740
GN 23-100-M16-200-D1-*	100	M 16	200	70.5	9	3	26.5	12	17	750
GN 23-100-M20-75-D0-*	100	M 20	75	70.5	9	-	28	15	28	653
GN 23-100-M20-75-D1-*	100	M 20	75	70.5	9	3	28	15	28	706
GN 23-100-M20-100-D0-*	100	M 20	100	70.5	9	-	28	15	28	712
GN 23-100-M20-100-D1-*	100	M 20	100	70.5	9	3	28	15	28	765
GN 23-100-M20-125-D0-*	100	M 20	125	70.5	9	-	28	15	28	780
GN 23-100-M20-125-D1-*	100	M 20	125	70.5	9	3	28	15	28	816
GN 23-100-M20-150-D0-*	100	M 20	150	70.5	9	-	28	15	28	800
GN 23-100-M20-150-D1-*	100	M 20	150	70.5	9	3	28	15	28	866
GN 23-100-M20-200-D0-*	100	M 20	200	70.5	9	-	28	15	28	913
GN 23-100-M20-200-D1-*	100	M 20	200	70.5	9	3	28	15	28	966
GN 23-100-M24-100-D0-*	100	M 24	100	70.5	9	-	31.5	19	46	800
GN 23-100-M24-100-D1-*	100	M 24	100	70.5	9	3	31.5	19	46	853
GN 23-100-M24-125-D0-*	100	M 24	125	70.5	9	-	31.5	19	46	880
GN 23-100-M24-125-D1-*	100	M 24	125	70.5	9	3	31.5	19	46	933



GN 23-T/TK

STAINLESS STEEL

Description	d1	d2	l1	k	h1	h2	h4	A/F 2	Static load in kN	⚖
GN 23-100-M24-150-D0-*	100	M 24	150	70.5	9	-	31.5	19	46	946
GN 23-100-M24-150-D1-*	100	M 24	150	70.5	9	3	31.5	19	46	999
GN 23-100-M24-200-D0-*	100	M 24	200	70.5	9	-	31.5	19	46	1092
GN 23-100-M24-200-D1-*	100	M 24	200	70.5	9	3	31.5	19	46	1145
GN 23-120-M20-75-D0-*	120	M 20	75	95.5	12	-	32	15	28	1008
GN 23-120-M20-75-D1-*	120	M 20	75	95.5	12	3.5	32	15	28	1114
GN 23-120-M20-100-D0-*	120	M 20	100	95.5	12	-	32	15	28	1067
GN 23-120-M20-100-D1-*	120	M 20	100	95.5	12	3.5	32	15	28	1173
GN 23-120-M20-125-D0-*	120	M 20	125	95.5	12	-	32	15	28	1117
GN 23-120-M20-125-D1-*	120	M 20	125	95.5	12	3.5	32	15	28	1223
GN 23-120-M20-150-D0-*	120	M 20	150	95.5	12	-	32	15	28	1168
GN 23-120-M20-150-D1-*	120	M 20	150	95.5	12	3.5	32	15	28	1274
GN 23-120-M20-200-D0-*	120	M 20	200	95.5	12	-	32	15	28	1268
GN 23-120-M20-200-D1-*	120	M 20	200	95.5	12	3.5	32	15	28	1374
GN 23-120-M24-100-D0-*	120	M 24	100	95.5	12	-	35.5	19	46	1164
GN 23-120-M24-100-D1-*	120	M 24	100	95.5	12	3.5	35.5	19	46	1270
GN 23-120-M24-125-D0-*	120	M 24	125	95.5	12	-	35.5	19	46	1200
GN 23-120-M24-125-D1-*	120	M 24	125	95.5	12	3.5	35.5	19	46	1300
GN 23-120-M24-150-D0-*	120	M 24	150	95.5	12	-	35.5	19	46	1310
GN 23-120-M24-150-D1-*	120	M 24	150	95.5	12	3.5	35.5	19	46	1416
GN 23-120-M24-200-D0-*	120	M 24	200	95.5	12	-	35.5	19	46	1456
GN 23-120-M24-200-D1-*	120	M 24	200	95.5	12	3.5	35.5	19	46	1520
GN 23-120-M30-100-D0-*	120	M 30	100	95.5	12	-	39.5	24	43	1402
GN 23-120-M30-100-D1-*	120	M 30	100	95.5	12	3.5	39.5	24	43	1508
GN 23-120-M30-125-D0-*	120	M 30	125	95.5	12	-	39.5	24	43	1498
GN 23-120-M30-125-D1-*	120	M 30	125	95.5	12	3.5	39.5	24	43	1604
GN 23-120-M30-150-D0-*	120	M 30	150	95.5	12	-	39.5	24	43	1616
GN 23-120-M30-150-D1-*	120	M 30	150	95.5	12	3.5	39.5	24	43	1722
GN 23-120-M30-200-D0-*	120	M 30	200	95.5	12	-	39.5	24	43	1853
GN 23-120-M30-200-D1-*	120	M 30	200	95.5	12	3.5	39.5	24	43	1959

Weight Version T

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GN 23 | Stainless Steel-Levelling feet

*Complete with version of the Levelling feet (Hexagon socket at the top / Wrench at the bottom)

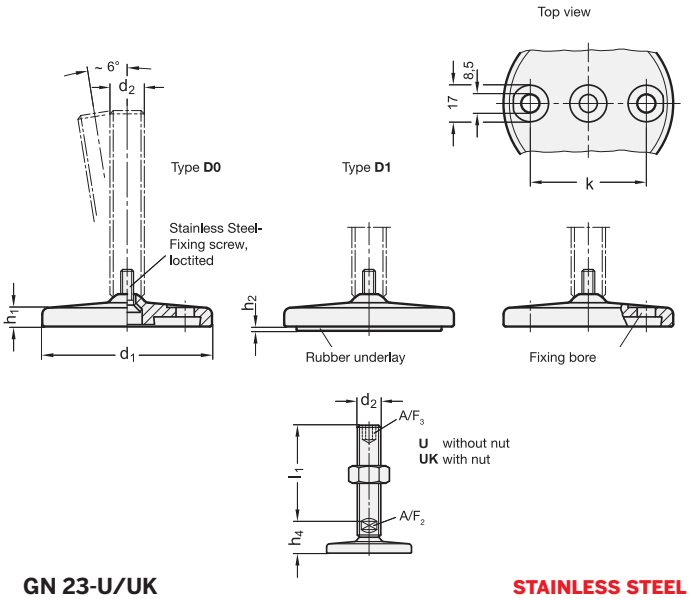
U without nut

UK with nut

GN 23-U/UK

STAINLESS STEEL

Description	d1	d2	l1	k	h1	h2	h4	A/F 2	A/F 3	Static load in kN	⚖
GN 23-80-M16-75-D0-*	80	M 16	75	54.5	8.5	-	25.5	12	8	17	134
GN 23-80-M16-75-D1-*	80	M 16	75	54.5	8.5	2	25.5	12	8	17	159
GN 23-80-M16-100-D0-*	80	M 16	100	54.5	8.5	-	25.5	12	8	17	194
GN 23-80-M16-100-D1-*	80	M 16	100	54.5	8.5	2	25.5	12	8	17	197
GN 23-80-M16-125-D0-*	80	M 16	125	54.5	8.5	-	25.5	12	8	17	199
GN 23-80-M16-125-D1-*	80	M 16	125	54.5	8.5	2	25.5	12	8	17	224
GN 23-80-M16-150-D0-*	80	M 16	150	54.5	8.5	-	25.5	12	8	17	231
GN 23-80-M16-150-D1-*	80	M 16	150	54.5	8.5	2	25.5	12	8	17	256
GN 23-80-M16-200-D0-*	80	M 16	200	54.5	8.5	-	25.5	12	8	17	298
GN 23-80-M16-200-D1-*	80	M 16	200	54.5	8.5	2	25.5	12	8	17	323
GN 23-80-M20-75-D0-*	80	M 20	75	54.5	8.5	-	27	15	10	28	448
GN 23-80-M20-75-D1-*	80	M 20	75	54.5	8.5	2	27	15	10	28	473
GN 23-80-M20-100-D0-*	80	M 20	100	54.5	8.5	-	27	15	10	28	686
GN 23-80-M20-100-D1-*	80	M 20	100	54.5	8.5	2	27	15	10	28	711
GN 23-80-M20-125-D0-*	80	M 20	125	54.5	8.5	-	27	15	10	28	549
GN 23-80-M20-125-D1-*	80	M 20	125	54.5	8.5	2	27	15	10	28	574
GN 23-80-M20-150-D0-*	80	M 20	150	54.5	8.5	-	27	15	10	28	577
GN 23-80-M20-150-D1-*	80	M 20	150	54.5	8.5	2	27	15	10	28	602
GN 23-80-M20-200-D0-*	80	M 20	200	54.5	8.5	-	27	15	10	28	702
GN 23-80-M20-200-D1-*	80	M 20	200	54.5	8.5	2	27	15	10	28	727
GN 23-80-M24-100-D0-*	80	M 24	100	54.5	8.5	-	30.5	19	12	46	664
GN 23-80-M24-100-D1-*	80	M 24	100	54.5	8.5	2	30.5	19	12	46	681
GN 23-80-M24-125-D0-*	80	M 24	125	54.5	8.5	-	30.5	19	12	46	662
GN 23-80-M24-125-D1-*	80	M 24	125	54.5	8.5	2	30.5	19	12	46	695
GN 23-80-M24-150-D0-*	80	M 24	150	54.5	8.5	-	30.5	19	12	46	743
GN 23-80-M24-150-D1-*	80	M 24	150	54.5	8.5	2	30.5	19	12	46	768
GN 23-80-M24-200-D0-*	80	M 24	200	54.5	8.5	-	30.5	19	12	46	879
GN 23-80-M24-200-D1-*	80	M 24	200	54.5	8.5	2	30.5	19	12	46	904
GN 23-100-M16-75-D0-*	100	M 16	75	70.5	9	-	26.5	12	8	17	567
GN 23-100-M16-75-D1-*	100	M 16	75	70.5	9	3	26.5	12	8	17	620
GN 23-100-M16-100-D0-*	100	M 16	100	70.5	9	-	26.5	12	8	17	599
GN 23-100-M16-100-D1-*	100	M 16	100	70.5	9	3	26.5	12	8	17	652
GN 23-100-M16-125-D0-*	100	M 16	125	70.5	9	-	26.5	12	8	17	632
GN 23-100-M16-125-D1-*	100	M 16	125	70.5	9	3	26.5	12	8	17	685
GN 23-100-M16-150-D0-*	100	M 16	150	70.5	9	-	26.5	12	8	17	664
GN 23-100-M16-150-D1-*	100	M 16	150	70.5	9	3	26.5	12	8	17	717
GN 23-100-M16-200-D0-*	100	M 16	200	70.5	9	-	26.5	12	8	17	730
GN 23-100-M16-200-D1-*	100	M 16	200	70.5	9	3	26.5	12	8	17	784
GN 23-100-M20-75-D0-*	100	M 20	75	70.5	9	-	28	15	10	28	653
GN 23-100-M20-75-D1-*	100	M 20	75	70.5	9	3	28	15	10	28	706
GN 23-100-M20-100-D0-*	100	M 20	100	70.5	9	-	28	15	10	28	750
GN 23-100-M20-100-D1-*	100	M 20	100	70.5	9	3	28	15	10	28	760
GN 23-100-M20-125-D0-*	100	M 20	125	70.5	9	-	28	15	10	28	754
GN 23-100-M20-125-D1-*	100	M 20	125	70.5	9	3	28	15	10	28	807
GN 23-100-M20-150-D0-*	100	M 20	150	70.5	9	-	28	15	10	28	782
GN 23-100-M20-150-D1-*	100	M 20	150	70.5	9	3	28	15	10	28	835
GN 23-100-M20-200-D0-*	100	M 20	200	70.5	9	-	28	15	10	28	907
GN 23-100-M20-200-D1-*	100	M 20	200	70.5	9	3	28	15	10	28	960
GN 23-100-M24-100-D0-*	100	M 24	100	70.5	9	-	31.5	19	12	46	863
GN 23-100-M24-100-D1-*	100	M 24	100	70.5	9	3	31.5	19	12	46	916
GN 23-100-M24-125-D0-*	100	M 24	125	70.5	9	-	31.5	19	12	46	855
GN 23-100-M24-125-D1-*	100	M 24	125	70.5	9	3	31.5	19	12	46	908



GN 23-U/UK

STAINLESS STEEL

Description	d1	d2	l1	k	h1	h2	h4	A/F 2	A/F 3	Static load in kN	⚖
GN 23-100-M24-150-D0-*	100	M 24	150	70.5	9	-	31.5	19	12	46	936
GN 23-100-M24-150-D1-*	100	M 24	150	70.5	9	3	31.5	19	12	46	989
GN 23-100-M24-200-D0-*	100	M 24	200	70.5	9	-	31.5	19	12	46	1003
GN 23-100-M24-200-D1-*	100	M 24	200	70.5	9	3	31.5	19	12	46	1114
GN 23-120-M20-75-D0-*	120	M 20	75	95.5	12	-	32	15	10	28	1072
GN 23-120-M20-75-D1-*	120	M 20	75	95.5	12	3.5	32	15	10	28	1125
GN 23-120-M20-100-D0-*	120	M 20	100	95.5	12	-	32	15	10	28	1009
GN 23-120-M20-100-D1-*	120	M 20	100	95.5	12	3.5	32	15	10	28	1235
GN 23-120-M20-125-D0-*	120	M 20	125	95.5	12	-	32	15	10	28	1109
GN 23-120-M20-125-D1-*	120	M 20	125	95.5	12	3.5	32	15	10	28	1243
GN 23-120-M20-150-D0-*	120	M 20	150	95.5	12	-	32	15	10	28	1246
GN 23-120-M20-150-D1-*	120	M 20	150	95.5	12	3.5	32	15	10	28	1243
GN 23-120-M20-200-D0-*	120	M 20	200	95.5	12	-	32	15	10	28	1262
GN 23-120-M20-200-D1-*	120	M 20	200	95.5	12	3.5	32	15	10	28	1368
GN 23-120-M24-100-D0-*	120	M 24	100	95.5	12	-	35.5	19	12	46	1219
GN 23-120-M24-100-D1-*	120	M 24	100	95.5	12	3.5	35.5	19	12	46	1333
GN 23-120-M24-125-D0-*	120	M 24	125	95.5	12	-	35.5	19	12	46	1227
GN 23-120-M24-125-D1-*	120	M 24	125	95.5	12	3.5	35.5	19	12	46	1333
GN 23-120-M24-150-D0-*	120	M 24	150	95.5	12	-	35.5	19	12	46	1300
GN 23-120-M24-150-D1-*	120	M 24	150	95.5	12	3.5	35.5	19	12	46	1406
GN 23-120-M24-200-D0-*	120	M 24	200	95.5	12	-	35.5	19	12	46	1436
GN 23-120-M24-200-D1-*	120	M 24	200	95.5	12	3.5	35.5	19	12	46	1542
GN 23-120-M30-100-D0-*	120	M 30	100	95.5	12	-	39.5	24	12	43	1353
GN 23-120-M30-100-D1-*	120	M 30	100	95.5	12	3.5	39.5	24	12	43	1459
GN 23-120-M30-125-D0-*	120	M 30	125	95.5	12	-	39.5	24	12	43	1469
GN 23-120-M30-125-D1-*	120	M 30	125	95.5	12	3.5	39.5	24	12	43	1575
GN 23-120-M30-150-D0-*	120	M 30	150	95.5	12	-	39.5	24	12	43	1583
GN 23-120-M30-150-D1-*	120	M30	150	96.5	12	3.5	38.5	24	12	43	1600
GN 23-120-M30-200-D0-*	120	M30	200	95.5	12	-	38.5	24	12	43	1750
GN 23-120-M30-200-D1-*	120	M30	200	96.5	12	3.5	38.5	24	12	43	1800

Weight Version U

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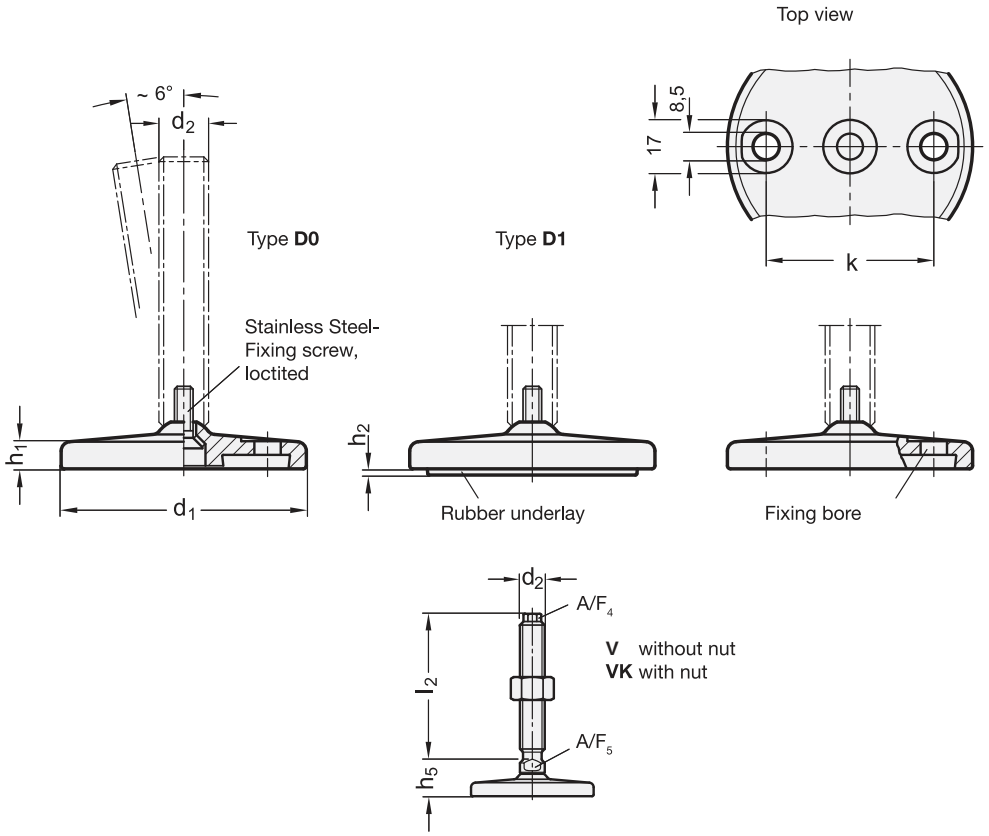

*Complete with version of the Levelling feet (External hexagon socket on the top / Wrench flat at the bottom)

V
without nut

VK
with nut

GN 23-V/VK — **STAINLESS STEEL**

Description	d1	d2	l2	k	h1	h2	h5	A/F 4	A/F 5	Static load in kN	⚖
GN 23-80-M16-75-D0-*	80	M 16	75	54.5	8.5	-	21.5	10	12	21	360
GN 23-80-M16-75-D1-*	80	M 16	75	54.5	8.5	2	21.5	10	12	21	380
GN 23-80-M16-100-D0-*	80	M 16	100	54.5	8.5	-	21.5	10	12	21	420
GN 23-80-M16-100-D1-*	80	M 16	100	54.5	8.5	2	21.5	10	12	21	440
GN 23-80-M16-125-D0-*	80	M 16	125	54.5	8.5	-	21.5	10	12	21	496
GN 23-80-M16-125-D1-*	80	M 16	125	54.5	8.5	2	21.5	10	12	21	521
GN 23-80-M16-150-D0-*	80	M 16	150	54.5	8.5	-	21.5	10	12	21	529
GN 23-80-M16-150-D1-*	80	M 16	150	54.5	8.5	2	21.5	10	12	21	554
GN 23-80-M16-200-D0-*	80	M 16	200	54.5	8.5	2	21.5	10	12	21	590
GN 23-80-M16-200-D1-	80	M 16	200	54.5	8.5	2	21.5	10	12	21	595
GN 23-80-M20-100-D0-*	80	M 20	100	54.5	8.5	-	23	13	16	35	498
GN 23-80-M20-100-D1-*	80	M 20	100	54.5	8.5	2	23	13	16	35	523
GN 23-80-M20-125-D0-*	80	M 20	125	54.5	8.5	-	23	13	16	35	549
GN 23-80-M20-125-D1-*	80	M 20	125	54.5	8.5	2	23	13	16	35	574
GN 23-80-M20-150-D0-*	80	M 20	150	54.5	8.5	-	23	13	16	35	601
GN 23-80-M20-150-D1-*	80	M 20	150	54.5	8.5	2	23	13	16	35	626
GN 23-80-M20-200-D0-*	80	M 20	200	54.5	8.5	-	23	13	16	35	706
GN 23-80-M20-200-D1-*	80	M 20	200	54.5	8.5	2	23	13	16	35	731
GN 23-80-M24-100-D0-*	80	M 24	100	54.5	8.5	-	26	17	20	52	593
GN 23-80-M24-100-D1-*	80	M 24	100	54.5	8.5	2	26	17	20	52	618
GN 23-80-M24-150-D0-*	80	M 24	150	54.5	8.5	-	26	17	20	52	741
GN 23-80-M24-150-D1-*	80	M 24	150	54.5	8.5	2	26	17	20	52	766
GN 23-80-M24-200-D0-*	80	M 24	200	54.5	8.5	-	26	17	20	52	887
GN 23-80-M24-200-D1-*	80	M 24	200	54.5	8.5	2	26	17	20	52	912

GN 23-V/VK — **STAINLESS STEEL**

Description	d1	d2	l2	k	h1	h2	h5	A/F 4	A/F 5	Static load in kN	⚖
GN 23-100-M16-75-D0-*	100	M 16	75	70.5	9	-	22.5	10	12	21	436
GN 23-100-M16-75-D1-*	100	M 16	75	70.5	9	3	22.5	10	12	21	489
GN 23-100-M16-100-D0-*	100	M 16	100	70.5	9	-	22.5	10	12	21	597
GN 23-100-M16-100-D1-*	100	M 16	100	70.5	9	3	22.5	10	12	21	650
GN 23-100-M16-125-D0-*	100	M 16	125	70.5	9	-	22.5	10	12	21	629
GN 23-100-M16-125-D1-*	100	M 16	125	70.5	9	3	22.5	10	12	21	682
GN 23-100-M16-150-D0-*	100	M 16	150	70.5	9	-	22.5	10	12	21	662
GN 23-100-M16-150-D1-*	100	M 16	150	70.5	9	3	22.5	10	12	21	715
GN 23-100-M20-100-D0-*	100	M 20	100	70.5	9	-	24	13	16	35	703
GN 23-100-M20-100-D1-*	100	M 20	100	70.5	9	3	24	13	16	35	756
GN 23-100-M20-125-D0-*	100	M 20	125	70.5	9	-	24	13	16	35	754
GN 23-100-M20-125-D1-*	100	M 20	125	70.5	9	3	24	13	16	35	807
GN 23-100-M20-150-D0-*	100	M 20	150	70.5	9	-	24	13	16	35	806
GN 23-100-M20-150-D1-*	100	M 20	150	70.5	9	3	24	13	16	35	859
GN 23-100-M20-200-D0-*	100	M 20	200	70.5	9	-	24	13	16	35	911
GN 23-100-M20-200-D1-*	100	M 20	200	70.5	9	3	24	13	16	35	964
GN 23-100-M24-100-D0-*	100	M 24	100	70.5	9	-	27	17	20	52	786
GN 23-100-M24-100-D1-*	100	M 24	100	70.5	9	3	27	17	20	52	839
GN 23-100-M24-150-D0-*	100	M 24	150	70.5	9	-	27	17	20	52	934
GN 23-100-M24-150-D1-*	100	M 24	150	70.5	9	3	27	17	20	52	987
GN 23-100-M24-200-D0-*	100	M 24	200	70.5	9	-	27	17	20	52	1080
GN 23-100-M24-200-D1-*	100	M 24	200	70.5	9	3	27	17	20	52	1133

Weight Version V

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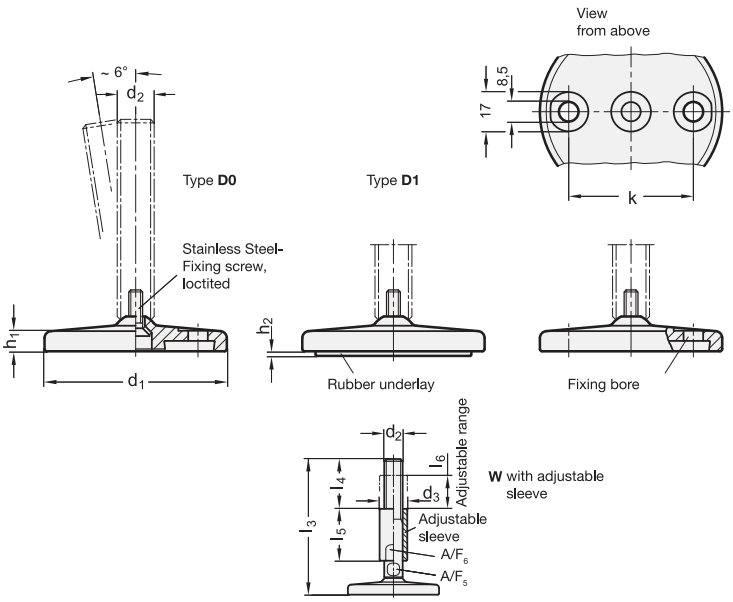
GN 23

Stainless Steel-Levelling feet



GN 23-W

STAINLESS STEEL

Description	d1	d2	l3 ≈	k	d3	h1	h2	l4	l5	l6	A/F 5	A/F 6	Static load in kN	⚖
GN 23-80-M16-118-D0-W	80	M 16	118	54.5	24	8.5	-	45	45	29	12	20	25	240
GN 23-80-M16-118-D1-W	80	M 16	118	54.5	24	8.5	2	45	45	29	12	20	25	245
GN 23-80-M16-143-D0-W	80	M 16	143	54.5	24	8.5	-	45	45	29	12	20	25	294
GN 23-80-M16-143-D1-W	80	M 16	143	54.5	24	8.5	2	45	45	29	12	20	25	319
GN 23-80-M16-168-D0-W	80	M 16	168	54.5	24	8.5	-	45	45	29	12	20	25	336
GN 23-80-M16-168-D1-W	80	M 16	168	54.5	24	8.5	2	45	45	29	12	20	25	361
GN 23-80-M16-193-D0-W	80	M 16	193	54.5	24	8.5	-	45	45	29	12	20	25	375
GN 23-80-M16-193-D1-W	80	M 16	193	54.5	24	8.5	2	45	45	29	12	20	25	414
GN 23-80-M20-143-D0-W	80	M 20	143	54.5	30	8.5	-	56	56	36	16	24	35	728
GN 23-80-M20-143-D1-W	80	M 20	143	54.5	30	8.5	2	56	56	36	16	24	35	753
GN 23-80-M20-168-D0-W	80	M 20	168	54.5	30	8.5	-	56	56	36	16	24	35	792
GN 23-80-M20-168-D1-W	80	M 20	168	54.5	30	8.5	2	56	56	36	16	24	35	817
GN 23-80-M20-193-D0-W	80	M 20	193	54.5	30	8.5	-	56	56	36	16	24	35	830
GN 23-80-M20-193-D1-W	80	M 20	193	54.5	30	8.5	2	56	56	36	16	24	35	879
GN 23-80-M20-243-D0-W	80	M 20	243	54.5	30	8.5	-	56	56	36	16	24	35	978
GN 23-80-M20-243-D1-W	80	M 20	243	54.5	30	8.5	2	56	56	36	16	24	35	1003
GN 23-80-M24-168-D0-W	80	M 24	168	54.5	35	8.5	-	67	67	42	20	30	52	1022
GN 23-80-M24-168-D1-W	80	M 24	168	54.5	35	8.5	2	67	67	42	20	30	52	1047
GN 23-80-M24-218-D0-W	80	M 24	218	54.5	35	8.5	-	67	67	42	20	30	52	1100
GN 23-80-M24-218-D1-W	80	M 24	218	54.5	35	8.5	2	67	67	42	20	30	52	1225
GN 23-80-M24-268-D0-W	80	M 24	268	54.5	35	8.5	-	67	67	42	20	30	52	1379
GN 23-80-M24-268-D1-W	80	M 24	268	54.5	35	8.5	2	67	67	42	20	30	52	1404
GN 23-100-M16-119-D0-W	100	M 16	119	70.5	24	9	-	45	45	32	12	20	25	690
GN 23-100-M16-119-D1-W	100	M 16	119	70.5	24	9	3	45	45	32	12	20	25	744
GN 23-100-M16-144-D0-W	100	M 16	144	70.5	24	9	-	45	45	32	12	20	25	727
GN 23-100-M16-144-D1-W	100	M 16	144	70.5	24	9	3	45	45	32	12	20	25	780
GN 23-100-M16-169-D0-W	100	M 16	169	70.5	24	9	-	45	45	32	12	20	25	800
GN 23-100-M16-169-D1-W	100	M 16	169	70.5	24	9	3	45	45	32	12	20	25	822
GN 23-100-M16-194-D0-W	100	M 16	194	70.5	24	9	-	45	45	32	12	20	25	808
GN 23-100-M16-194-D1-W	100	M 16	194	70.5	24	9	3	45	45	32	12	20	25	861
GN 23-100-M20-144-D0-W	100	M 20	144	70.5	30	9	-	56	56	40	16	24	35	933
GN 23-100-M20-144-D1-W	100	M 20	144	70.5	30	9	3	56	56	40	16	24	35	986
GN 23-100-M20-169-D0-W	100	M 20	169	70.5	30	9	-	56	56	40	16	24	35	1040
GN 23-100-M20-169-D1-W	100	M 20	169	70.5	30	9	3	56	56	40	16	24	35	1050
GN 23-100-M20-194-D0-W	100	M 20	194	70.5	30	9	-	56	56	40	16	24	3	1111
GN 23-100-M20-194-D1-W	100	M 20	194	70.5	30	9	3	56	56	40	16	24	35	1112
GN 23-100-M20-244-D0-W	100	M 20	244	70.5	30	9	-	56	56	40	16	24	35	1183
GN 23-100-M20-244-D1-W	100	M 20	244	70.5	30	9	3	56	56	40	16	24	35	2500
GN 23-100-M24-169-D0-W	100	M 24	169	70.5	35	9	-	67	67	48	20	30	52	1215
GN 23-100-M24-169-D1-W	100	M 24	169	70.5	35	9	3	67	67	48	20	30	52	1268
GN 23-100-M24-219-D0-W	100	M 24	219	70.5	35	9	-	67	67	48	20	30	52	1400
GN 23-100-M24-219-D1-W	100	M 24	219	70.5	35	9	3	67	67	48	20	30	52	1446
GN 23-100-M24-269-D0-W	100	M 24	269	70.5	35	9	-	67	67	48	20	30	52	1572
GN 23-100-M24-269-D1-W	100	M 24	269	70.5	35	9	3	67	67	48	20	30	52	1625

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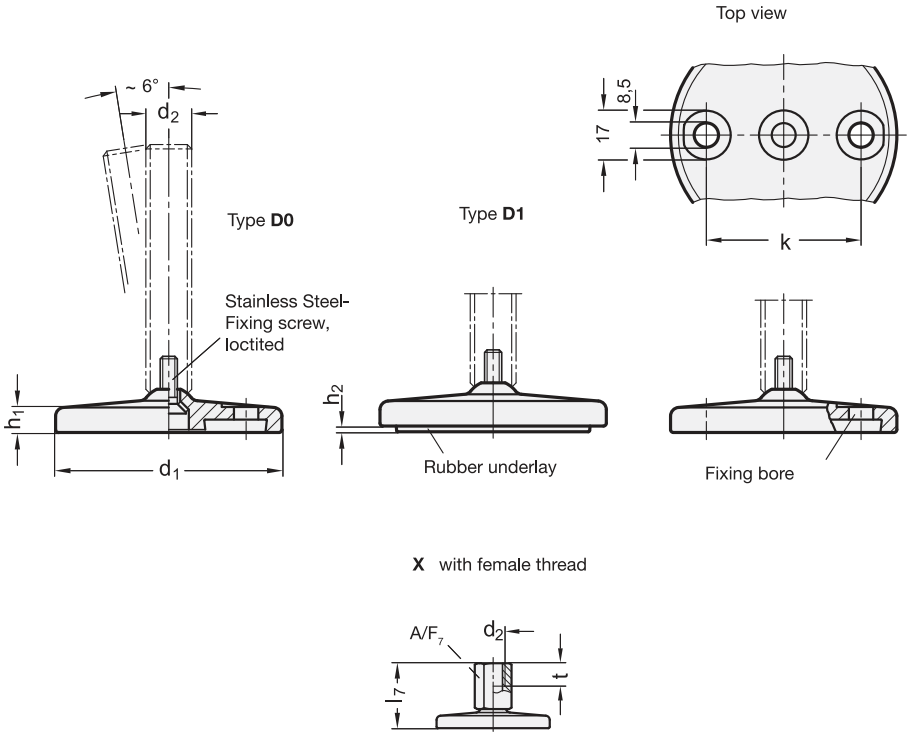
GN 23

Stainless Steel-Levelling feet



GN 23-X — **STAINLESS STEEL**

Description	d1	d2	l7	k	h1	h2	A/F 7	t	Static load in kN	⚖
GN 23-80-M8-34-D0-X	80	M 8	34	54.5	8.5	-	14	8	17	71
GN 23-80-M8-34-D1-X	80	M 8	34	54.5	8.5	2	14	8	17	96
GN 23-80-M10-37-D0-X	80	M 10	37	54.5	8.5	-	14	10	17	71
GN 23-80-M10-37-D1-X	80	M 10	37	54.5	8.5	2	14	10	17	96
GN 23-80-M12-40-D0-X	80	M 12	40	54.5	8.5	-	17	12	17	320
GN 23-80-M12-40-D1-X	80	M 12	40	54.5	8.5	2	17	12	17	364
GN 23-80-M16-46-D0-X	80	M 16	46	54.5	8.5	-	22	16	17	375
GN 23-80-M16-46-D1-X	80	M 16	46	54.5	8.5	2	22	16	17	380
GN 23-80-M20-54-D0-X	80	M 20	54	54.5	8.5	-	27	20	28	419
GN 23-80-M20-54-D1-X	80	M 20	54	54.5	8.5	2	27	20	28	444
GN 23-100-M8-35-D0-X	100	M 8	35	70.5	9	-	14	8	17	484
GN 23-100-M8-35-D1-X	100	M 8	35	70.5	9	3	14	8	17	500
GN 23-100-M10-38-D0-X	100	M 10	38	70.5	9	-	14	10	17	528
GN 23-100-M10-38-D1-X	100	M 10	38	70.5	9	3	14	10	17	540
GN 23-100-M12-41-D0-X	100	M 12	41	70.5	9	-	17	12	17	570
GN 23-100-M12-41-D1-X	100	M 12	41	70.5	9	3	17	12	17	600
GN 23-100-M16-47-D0-X	100	M 16	47	70.5	9	-	22	16	17	680
GN 23-100-M16-47-D1-X	100	M 16	47	70.5	9	3	22	16	17	780
GN 23-100-M20-55-D0-X	100	M 20	55	70.5	9	-	27	20	28	800
GN 23-100-M20-55-D1-X	100	M 20	55	70.5	9	3	27	20	28	878
GN 23-120-M20-59-D0-X	120	M 20	59	95.5	12	-	27	20	28	981
GN 23-120-M20-59-D1-X	120	M 20	59	95.5	12	3.5	27	20	28	1087

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Levelling feet

Steel sheet metal, zinc plated / with fixing lug

SPECIFICATION

Type (Base plate)
- Type **A1**: Steel, zinc plated, rubber, inlaid black

Version
- Version **S**: without nut, external hexagon at the bottom
- Version **SK**: with nut, external hexagon at the bottom
- Version **U**: without nut, internal hexagon socket at the top, wrench flat at the bottom
- Version **UK**: with nut, internal hexagon socket at the top, wrench flat at the bottom
- Version **X**: with female thread, external hexagon

Base plate / lug, sheet metal
Steel, zinc plated, blue passivated

Threaded stem
Steel, zinc plated, blue passivated

Hexagon nut ISO 4032
Steel, zinc plated, blue passivated

Rubber underlay, inlaid
black, Perbunan® (NBR) 80±5 Shore A

INFORMATION

Levelling feet GN 32 will be delivered mounted and are not removable.

TECHNICAL INFORMATION

- Elastomer characteristics (see page A32)

LOAD RATING OF LEVELLING FEET

Information

The static load bearing capacity given in the table rests on a test series in which the load has been applied perpendicular to the base plate. For the values given in the table, the strain relief may result in minor deformations of the base plate.
Bending and buckling stress which often occurs in practice results in a lower load bearing capacity of the adjustment spindle and may have to be taken into account.
Also, the spindle strength is assumed to be ≥ 500 N/mm^2.
The details given on strength are nonbinding guide values without any liability. In general, they do not constitute a warranty of quality.
The user must determine from case to case if a product is suitable for the intended purpose or use. Environmental factors may influence the stated values.

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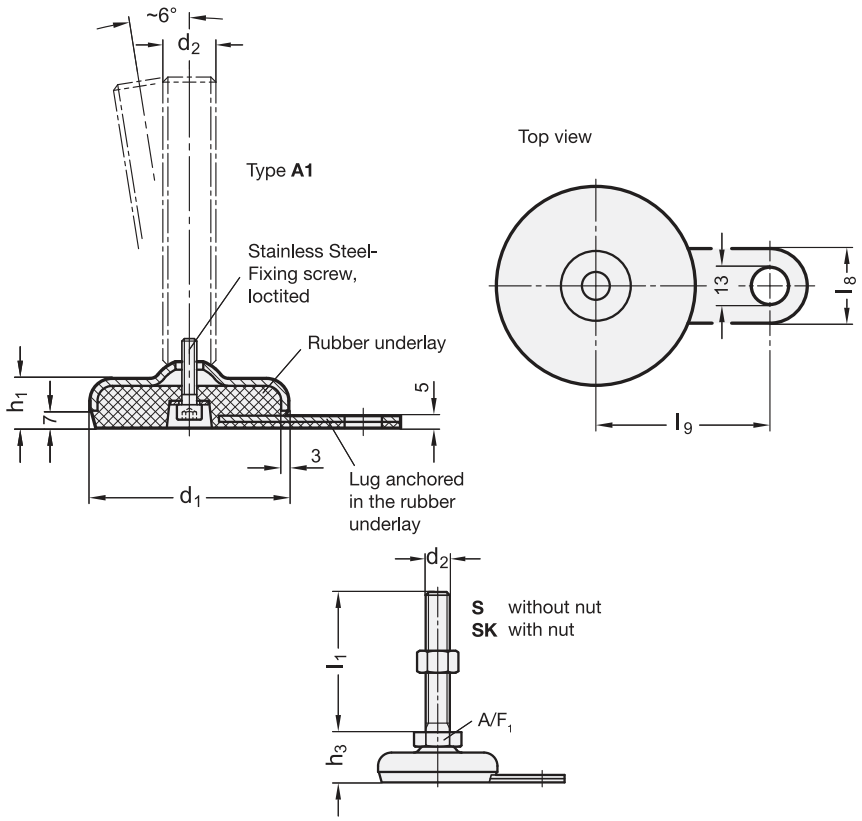

*Complete with version of the Levelling feet (External hexagon at the bottom)

S without nut

SK with nut

GN 32-S/SK

Description	d1	d2	l1	h1	h3	l8	l9	A/F 1	Static load in kN	⚖
GN 32-50-M8-40-A1-*	50	M 8	40	18	26	25	45	17	8	130
GN 32-50-M8-50-A1-*	50	M 8	50	18	26	25	45	17	8	130
GN 32-50-M8-63-A1-*	50	M 8	63	18	26	25	45	17	8	140
GN 32-50-M10-50-A1-*	50	M 10	50	18	26	25	45	17	10	130
GN 32-50-M10-60-A1-*	50	M 10	60	18	26	25	45	17	10	149
GN 32-50-M10-80-A1-*	50	M 10	80	18	26	25	45	17	10	160
GN 32-50-M10-100-A1-*	50	M 10	100	18	26	25	45	17	10	180
GN 32-50-M12-60-A1-*	50	M 12	60	18	26	25	45	17	12	160
GN 32-50-M12-80-A1-*	50	M 12	80	18	26	25	45	17	12	170
GN 32-50-M12-100-A1-*	50	M 12	100	18	26	25	45	17	12	195
GN 32-50-M12-125-A1-*	50	M 12	125	18	26	25	45	17	12	280
GN 32-60-M8-40-A1-*	60	M 8	40	19	27	25	50	17	8	292
GN 32-60-M8-50-A1-*	60	M 8	50	19	27	25	50	17	8	296
GN 32-60-M8-63-A1-*	60	M 8	63	19	27	25	50	17	8	180
GN 32-60-M10-50-A1-*	60	M 10	50	19	27	25	50	17	10	200
GN 32-60-M10-60-A1-*	60	M 10	60	19	27	25	50	17	10	200
GN 32-60-M10-80-A1-*	60	M 10	80	19	27	25	50	17	10	282
GN 32-60-M10-100-A1-*	60	M 10	100	19	27	25	50	17	10	226
GN 32-60-M12-60-A1-*	60	M 12	60	19	27	25	50	17	12	220
GN 32-60-M12-80-A1-*	60	M 12	80	19	27	25	50	17	12	230
GN 32-60-M12-100-A1-*	60	M 12	100	19	27	25	50	17	12	242
GN 32-60-M12-125-A1-*	60	M 12	125	19	27	25	50	17	12	260

GN 32-S/SK

Description	d1	d2	l1	h1	h3	l8	l9	A/F 1	Static load in kN	⚖
GN 32-80-M8-40-A1-*	80	M 8	40	20	28	30	70	17	8	300
GN 32-80-M8-50-A1-*	80	M 8	50	20	28	30	70	17	8	304
GN 32-80-M8-63-A1-*	80	M 8	63	20	28	30	70	17	8	307
GN 32-80-M10-50-A1-*	80	M 10	50	20	28	30	70	17	10	334
GN 32-80-M10-60-A1-*	80	M 10	60	20	28	30	70	17	10	339
GN 32-80-M10-80-A1-*	80	M 10	80	20	28	30	70	17	10	348
GN 32-80-M10-100-A1-*	80	M 10	100	20	28	30	70	17	10	380
GN 32-80-M12-60-A1-*	80	M 12	60	20	28	30	70	17	12	320
GN 32-80-M12-80-A1-*	80	M 12	80	20	28	30	70	17	12	340
GN 32-80-M12-100-A1-*	80	M 12	100	20	28	30	70	17	12	340
GN 32-80-M12-125-A1-*	80	M 12	125	20	28	30	70	17	12	380
GN 32-100-M8-40-A1-*	100	M 8	40	21	29	30	80	17	8	426
GN 32-100-M8-50-A1-*	100	M 8	50	21	29	30	80	17	8	430
GN 32-100-M8-63-A1-*	100	M 8	63	21	29	30	80	17	8	433
GN 32-100-M10-50-A1-*	100	M 10	50	21	29	30	80	17	10	460
GN 32-100-M10-60-A1-*	100	M 10	60	21	29	30	80	17	10	465
GN 32-100-M10-80-A1-*	100	M 10	80	21	29	30	80	17	10	474
GN 32-100-M10-100-A1-*	100	M 10	100	21	29	30	80	17	10	484
GN 32-100-M12-60-A1-*	100	M 12	60	21	29	30	80	17	11	497
GN 32-100-M12-80-A1-*	100	M 12	80	21	29	30	80	17	11	492
GN 32-100-M12-100-A1-*	100	M 12	100	21	29	30	80	17	11	500
GN 32-100-M12-125-A1-*	100	M 12	125	21	29	30	80	17	11	520

Weight Version S

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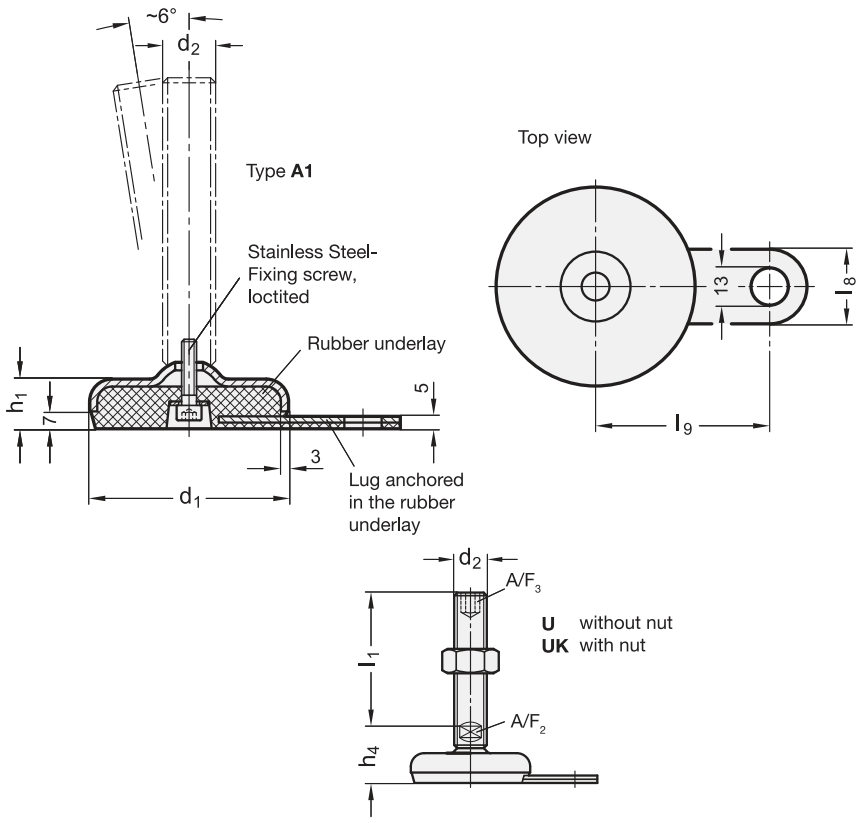

*Complete with version of the Levelling feet (Hexagon socket at the top / Wrench at the bottom)

U without nut

UK with nut

GN 32-U/UK

Description	d1	d2	l1	h1	h4	l8	l9	A/F 2	A/F 3	Static load in kN	⚖
GN 32-50-M16-75-A1-*	50	M 16	75	18	32	25	45	12	8	16	214
GN 32-50-M16-100-A1-*	50	M 16	100	18	32	25	45	12	8	16	250
GN 32-50-M16-125-A1-*	50	M 16	125	18	32	25	45	12	8	16	280
GN 32-50-M16-150-A1-*	50	M 16	150	18	32	25	45	12	8	16	330
GN 32-50-M16-200-A1-*	50	M 16	200	18	32	25	45	12	8	16	380
GN 32-60-M16-75-A1-*	60	M 16	75	19	33	25	50	12	8	16	260
GN 32-60-M16-100-A1-*	60	M 16	100	19	33	25	50	12	8	16	280
GN 32-60-M16-125-A1-*	60	M 16	125	19	33	25	50	12	8	16	286
GN 32-60-M16-150-A1-*	60	M 16	150	19	33	25	50	12	8	16	360
GN 32-60-M16-200-A1-*	60	M 16	200	19	33	25	50	12	8	16	430
GN 32-80-M16-75-A1-*	80	M 16	75	20	34	30	70	12	8	12	380
GN 32-80-M16-100-A1-*	80	M 16	100	20	34	30	70	12	8	12	417
GN 32-80-M16-125-A1-*	80	M 16	125	20	34	30	70	12	8	12	440
GN 32-80-M16-150-A1-*	80	M 16	150	20	34	30	70	12	8	12	477
GN 32-80-M16-200-A1-*	80	M 16	200	20	34	30	70	12	8	12	550
GN 32-80-M20-75-A1-*	80	M 20	75	20	35	30	70	15	10	12	450
GN 32-80-M20-100-A1-*	80	M 20	100	20	35	30	70	15	10	12	480
GN 32-80-M20-125-A1-*	80	M 20	125	20	35	30	70	15	10	12	540
GN 32-80-M20-150-A1-*	80	M 20	150	20	35	30	70	15	10	12	600
GN 32-80-M20-200-A1-*	80	M 20	200	20	35	30	70	15	10	12	680

GN 32-U/UK

Description	d1	d2	l1	h1	h4	l8	l9	A/F 2	A/F 3	Static load in kN	⚖
GN 32-80-M24-100-A1-*	80	M 24	100	20	38	30	70	19	12	12	550
GN 32-80-M24-125-A1-*	80	M 24	125	20	38	30	70	19	12	12	660
GN 32-80-M24-150-A1-*	80	M 24	150	20	38	30	70	19	12	12	700
GN 32-80-M24-200-A1-*	80	M 24	200	20	38	30	70	19	12	12	900
GN 32-100-M16-75-A1-*	100	M 16	75	21	35	30	80	12	8	11	520
GN 32-100-M16-100-A1-*	100	M 16	100	21	35	30	80	12	8	11	554
GN 32-100-M16-125-A1-*	100	M 16	125	21	35	30	80	12	8	11	582
GN 32-100-M16-150-A1-*	100	M 16	150	21	35	30	80	12	8	11	600
GN 32-100-M16-200-A1-*	100	M 16	200	21	35	30	80	12	8	11	680
GN 32-100-M20-75-A1-*	100	M 20	75	21	36	30	80	15	10	11	570
GN 32-100-M20-100-A1-*	100	M 20	100	21	36	30	80	15	10	11	600
GN 32-100-M20-125-A1-*	100	M 20	125	21	36	30	80	15	10	11	680
GN 32-100-M20-150-A1-*	100	M 20	150	21	36	30	80	15	10	11	656
GN 32-100-M20-200-A1-*	100	M 20	200	21	36	30	80	15	10	11	680
GN 32-100-M24-100-A1-*	100	M 24	100	21	39	30	80	19	12	11	740
GN 32-100-M24-125-A1-*	100	M 24	125	21	39	30	80	19	12	11	780
GN 32-100-M24-150-A1-*	100	M 24	150	21	39	30	80	19	12	11	861
GN 32-100-M24-200-A1-*	100	M 24	200	21	39	30	80	19	12	11	985

Weight Version U

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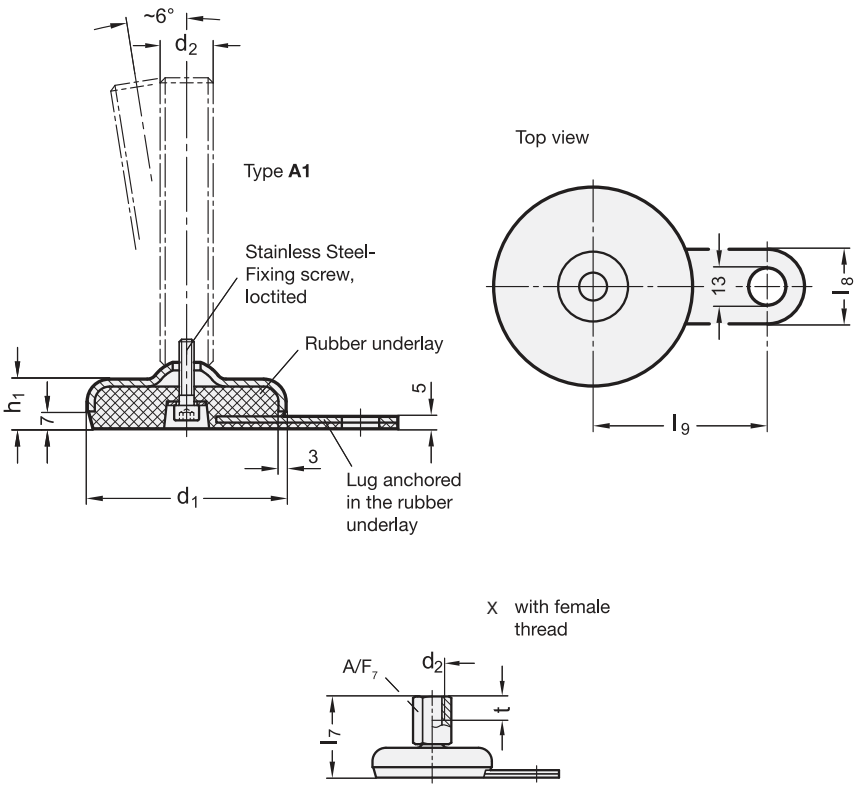

GN 32-X

Description	d1	d2	l7	h1	l8	l9	A/F 7	t	Static load in kN	⚖
GN 32-50-M8-40-A1-X	50	M 8	40	18	25	45	14	8	8	182
GN 32-50-M10-43-A1-X	50	M 10	43	18	25	45	14	10	13	198
GN 32-50-M12-47-A1-X	50	M 12	47	18	25	45	17	12	16	233
GN 32-50-M16-52-A1-X	50	M 16	52	18	25	45	22	16	16	252
GN 32-60-M8-41-A1-X	60	M 8	41	19	25	50	14	8	8	236
GN 32-60-M10-44-A1-X	60	M 10	44	19	25	50	14	10	13	255
GN 32-60-M12-48-A1-X	60	M 12	48	19	25	50	17	12	16	280
GN 32-60-M16-53-A1-X	60	M 16	53	19	25	50	22	16	16	306
GN 32-80-M8-42-A1-X	80	M 8	42	20	30	70	14	8	8	340
GN 32-80-M10-45-A1-X	80	M 10	45	20	30	70	14	10	12	375
GN 32-80-M12-49-A1-X	80	M 12	49	20	30	70	17	12	12	390
GN 32-80-M16-54-A1-X	80	M 16	54	20	30	70	22	16	12	400
GN 32-80-M20-62-A1-X	80	M 20	62	20	30	70	27	20	12	420
GN 32-100-M8-43-A1-X	100	M 8	43	21	30	80	14	8	8	450
GN 32-100-M10-46-A1-X	100	M 10	46	21	30	80	14	10	11	448
GN 32-100-M12-50-A1-X	100	M 12	50	21	30	80	17	12	11	464
GN 32-100-M16-55-A1-X	100	M 16	55	21	30	80	22	16	11	499
GN 32-100-M20-63-A1-X	100	M 20	63	21	30	80	27	20	11	500

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Stainless Steel-Levelling feet

with fixing lug

SPECIFICATION

Type (Base plate)

- Type **B1**: matt shot-blasted, rubber inlaid, black

Version of threaded stem

- Version **S**: without nut, external hexagon at the bottom
- Version **SK**: with nut, external hexagon at the bottom
- Version **T**: without nut, wrench flat at the bottom, "not dipping" version
- Version **TK**: with nut, wrench flat at the bottom, "not dipping" version
- Version **U**: without nut, hexagon socket at the top, wrench flat at the bottom
- Version **UK**: with nut, hexagon socket at the top, wrench flat at the bottom
- Version **V**: without nut, external hexagon at the top, wrench flat at the bottom
- Version **VK**: with nut, external hexagon at the top, wrench flat at the bottom
- Version **W**: with adjustable sleeve, wrench flat at the bottom
- Version **X**: with female thread, external hexagon

Base plate / lug, sheet metal
Stainless Steel AISI 304

Threaded stem
Stainless Steel AISI 303

Hexagon nut ISO 4032
Stainless Steel AISI 304

Rubber underlay, inlaid
black, Perbunan® (NBR) 80±5 Shore A

INFORMATION

Stainless Steel-Levelling feet GN 33 will be delivered mounted and are not removable.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Elastomer characteristics (see page A32)

LOAD RATING OF STAINLESS STEEL-LEVELLING FEET

Information

The static load bearing capacity given in the table rests on a test series in which the load has been applied perpendicular to the base plate. For the values given in the table, the strain relief may result in minor deformations of the base plate.
Bending and buckling stress which often occurs in practice results in a lower load bearing capacity of the adjustment spindle and may have to be taken into account.
Also, the spindle strength is assumed to be ≥ 500 N/mm^2.
The details given on strength are nonbinding guide values without any liability. In general, they do not constitute a warranty of quality.
The user must determine from case to case if a product is suitable for the intended purpose or use. Environmental factors may influence the stated values.

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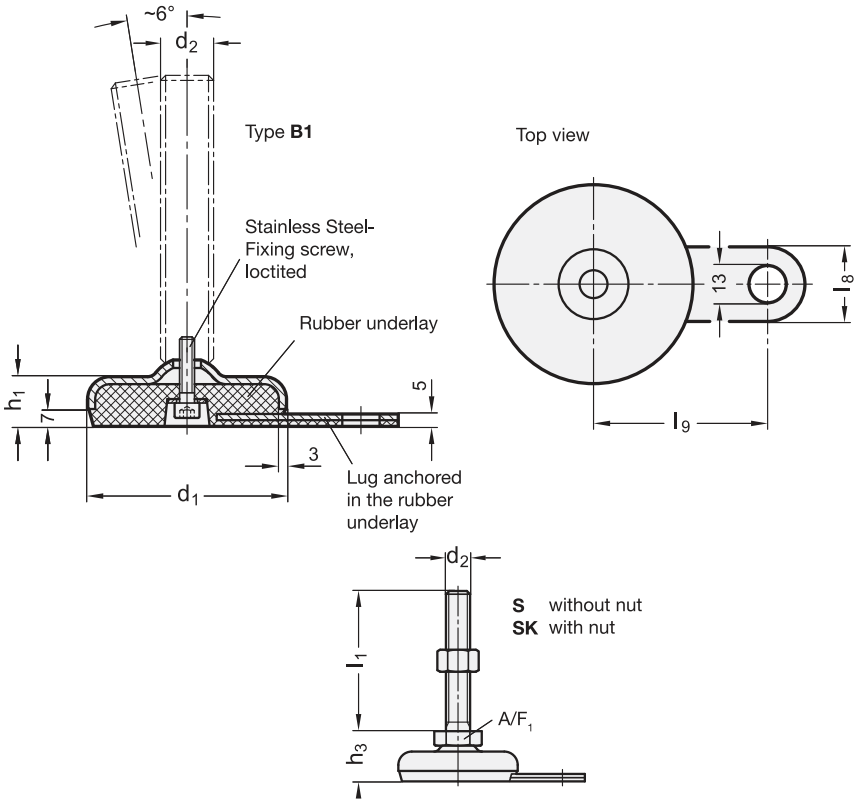
GN 33 | Stainless Steel-Levelling feet



*Complete with version of the Levelling feet (External hexagon at the bottom)

S without nut

SK with nut

GN 33-S/SK — STAINLESS STEEL

Description	d1	d2	l1	h1	h3	l8	l9	A/F 1	Static load in kN	⚖
GN 33-50-M8-40-B1-*	50	M 8	40	18	26	25	45	17	8	120
GN 33-50-M8-50-B1-*	50	M 8	50	18	26	25	45	17	8	140
GN 33-50-M8-63-B1-*	50	M 8	63	18	26	25	45	17	8	140
GN 33-50-M10-50-B1-*	50	M 10	50	18	26	25	45	17	14	150
GN 33-50-M10-60-B1-*	50	M 10	60	18	26	25	45	17	14	196
GN 33-50-M10-80-B1-*	50	M 10	80	18	26	25	45	17	14	206
GN 33-50-M10-100-B1-*	50	M 10	100	18	26	25	45	17	14	205
GN 33-50-M12-60-B1-*	50	M 12	60	18	26	25	45	17	20	160
GN 33-50-M12-80-B1-*	50	M 12	80	18	26	25	45	17	20	180
GN 33-50-M12-100-B1-*	50	M 12	100	18	26	25	45	17	20	180
GN 33-50-M12-125-B1-*	50	M 12	125	18	26	25	45	17	20	200
GN 33-60-M8-40-B1-*	60	M 8	40	19	27	25	50	17	8	286
GN 33-60-M8-50-B1-*	60	M 8	50	19	27	25	50	17	8	289
GN 33-60-M8-63-B1-*	60	M 8	63	19	27	25	50	17	8	293
GN 33-60-M10-50-B1-*	60	M 10	50	19	27	25	50	17	14	261
GN 33-60-M10-60-B1-*	60	M 10	60	19	27	25	50	17	14	300
GN 33-60-M10-80-B1-*	60	M 10	80	19	27	25	50	17	14	320
GN 33-60-M10-100-B1-*	60	M 10	100	19	27	25	50	17	14	320
GN 33-60-M12-60-B1-*	60	M 12	60	19	27	25	50	17	20	206
GN 33-60-M12-80-B1-*	60	M 12	80	19	27	25	50	17	20	331
GN 33-60-M12-100-B1-*	60	M 12	100	19	27	25	50	17	20	235
GN 33-60-M12-125-B1-*	60	M 12	125	19	27	25	50	17	20	260

GN 33-S/SK — STAINLESS STEEL

Description	d1	d2	l1	h1	h3	l8	l9	A/F 1	Static load in kN	⚖
GN 33-80-M8-40-B1-*	80	M 8	40	20	28	30	70	17	8	393
GN 33-80-M8-50-B1-*	80	M 8	50	20	28	30	70	17	8	406
GN 33-80-M8-63-B1-*	80	M 8	63	20	28	30	70	17	8	400
GN 33-80-M10-50-B1-*	80	M 10	50	20	28	30	70	17	14	320
GN 33-80-M10-60-B1-*	80	M 10	60	20	28	30	70	17	14	331
GN 33-80-M10-80-B1-*	80	M 10	80	20	28	30	70	17	14	350
GN 33-80-M10-100-B1-*	80	M 10	100	20	28	30	70	17	14	355
GN 33-80-M12-60-B1-*	80	M 12	60	20	28	30	70	17	19	345
GN 33-80-M12-80-B1-*	80	M 12	80	20	28	30	70	17	19	360
GN 33-80-M12-100-B1-*	80	M 12	100	20	28	30	70	17	19	340
GN 33-80-M12-125-B1-*	80	M 12	125	20	28	30	70	17	19	360
GN 33-100-M8-40-B1-*	100	M 8	40	21	29	30	80	17	8	557
GN 33-100-M8-50-B1-*	100	M 8	50	21	29	30	80	17	8	560
GN 33-100-M8-63-B1-*	100	M 8	63	21	29	30	80	17	8	564
GN 33-100-M10-50-B1-*	100	M 10	50	21	29	30	80	17	14	590
GN 33-100-M10-60-B1-*	100	M 10	60	21	29	30	80	17	14	594
GN 33-100-M10-80-B1-*	100	M 10	80	21	29	30	80	17	14	604
GN 33-100-M10-100-B1-*	100	M 10	100	21	29	30	80	17	14	615
GN 33-100-M12-60-B1-*	100	M 12	60	21	29	30	80	17	17	500
GN 33-100-M12-80-B1-*	100	M 12	80	21	29	30	80	17	17	623
GN 33-100-M12-100-B1-*	100	M 12	100	21	29	30	80	17	17	637
GN 33-100-M12-125-B1-*	100	M 12	125	21	29	30	80	17	17	650

Weight Version S

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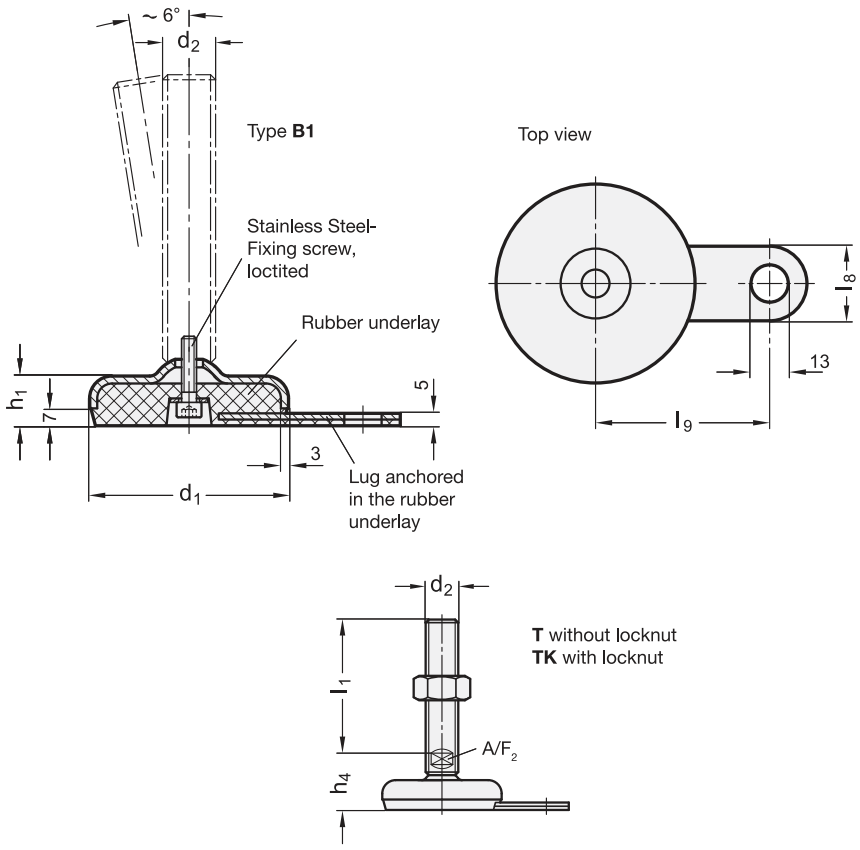
GN 33 | Stainless Steel-Levelling feet



*Complete with version of the Levelling feet (Wrench flat at the bottom)

T
without nut

TK
with nut

GN 33-T/TK — **STAINLESS STEEL**

Description	d1	d2	l1	h1	h4	l8	l9	A/F 2	Static load in kN	⚖
GN 33-50-M16-75-B1-*	50	M 16	75	18	32	25	45	12	28	287
GN 33-50-M16-100-B1-*	50	M 16	100	18	32	25	45	12	28	200
GN 33-50-M16-125-B1-*	50	M 16	125	18	32	25	45	12	28	352
GN 33-50-M16-150-B1-*	50	M 16	150	18	32	25	45	12	28	384
GN 33-50-M16-200-B1-*	50	M 16	200	18	32	25	45	12	28	727
GN 33-60-M16-75-B1-*	60	M 16	75	19	33	25	50	12	28	335
GN 33-60-M16-100-B1-*	60	M 16	100	19	33	25	50	12	28	300
GN 33-60-M16-125-B1-*	60	M 16	125	19	33	25	50	12	28	340
GN 33-60-M16-150-B1-*	60	M 16	150	19	33	25	50	12	28	363
GN 33-60-M16-200-B1-*	60	M 16	200	19	33	25	50	12	28	400
GN 33-80-M16-75-B1-*	80	M 16	75	20	34	30	70	12	19	405
GN 33-80-M16-100-B1-*	80	M 16	100	20	34	30	70	12	19	430
GN 33-80-M16-125-B1-*	80	M 16	125	20	34	30	70	12	19	400
GN 33-80-M16-150-B1-*	80	M 16	150	20	34	30	70	12	19	500
GN 33-80-M16-200-B1-*	80	M 16	200	20	34	30	70	12	19	561
GN 33-80-M20-75-B1-*	80	M 20	75	20	35	30	70	15	19	537
GN 33-80-M20-100-B1-*	80	M 20	100	20	35	30	70	15	19	596
GN 33-80-M20-125-B1-*	80	M 20	125	20	35	30	70	15	19	560
GN 33-80-M20-150-B1-*	80	M 20	150	20	35	30	70	15	19	600

GN 33-T/TK — **STAINLESS STEEL**

Description	d1	d2	l1	h1	h4	l8	l9	A/F 2	Static load in kN	⚖
GN 33-80-M20-200-B1-*	80	M 20	200	20	35	30	70	15	19	770
GN 33-80-M24-100-B1-*	80	M 24	100	20	38	30	70	19	19	659
GN 33-80-M24-125-B1-*	80	M 24	125	20	38	30	70	19	19	739
GN 33-80-M24-150-B1-*	80	M 24	150	20	38	30	70	19	19	805
GN 33-80-M24-200-B1-*	80	M 24	200	20	38	30	70	19	19	951
GN 33-100-M16-75-B1-*	100	M 16	75	21	35	30	80	12	17	664
GN 33-100-M16-100-B1-*	100	M 16	100	21	35	30	80	12	17	620
GN 33-100-M16-125-B1-*	100	M 16	125	21	35	30	80	12	17	500
GN 33-100-M16-150-B1-*	100	M 16	150	21	35	30	80	12	17	650
GN 33-100-M16-200-B1-*	100	M 16	200	21	35	30	80	12	17	650
GN 33-100-M20-75-B1-*	100	M 20	75	21	36	30	80	15	17	701
GN 33-100-M20-100-B1-*	100	M 20	100	21	36	30	80	15	17	550
GN 33-100-M20-125-B1-*	100	M 20	125	21	36	30	80	15	17	660
GN 33-100-M20-150-B1-*	100	M 20	150	21	36	30	80	15	17	740
GN 33-100-M20-200-B1-*	100	M 20	200	21	36	30	80	15	17	900
GN 33-100-M24-100-B1-*	100	M 24	100	21	39	30	80	19	17	868
GN 33-100-M24-125-B1-*	100	M 24	125	21	39	30	80	19	17	948
GN 33-100-M24-150-B1-*	100	M 24	150	21	39	30	80	19	17	1014
GN 33-100-M24-200-B1-*	100	M 24	200	21	39	30	80	19	17	1030

Weight Version T

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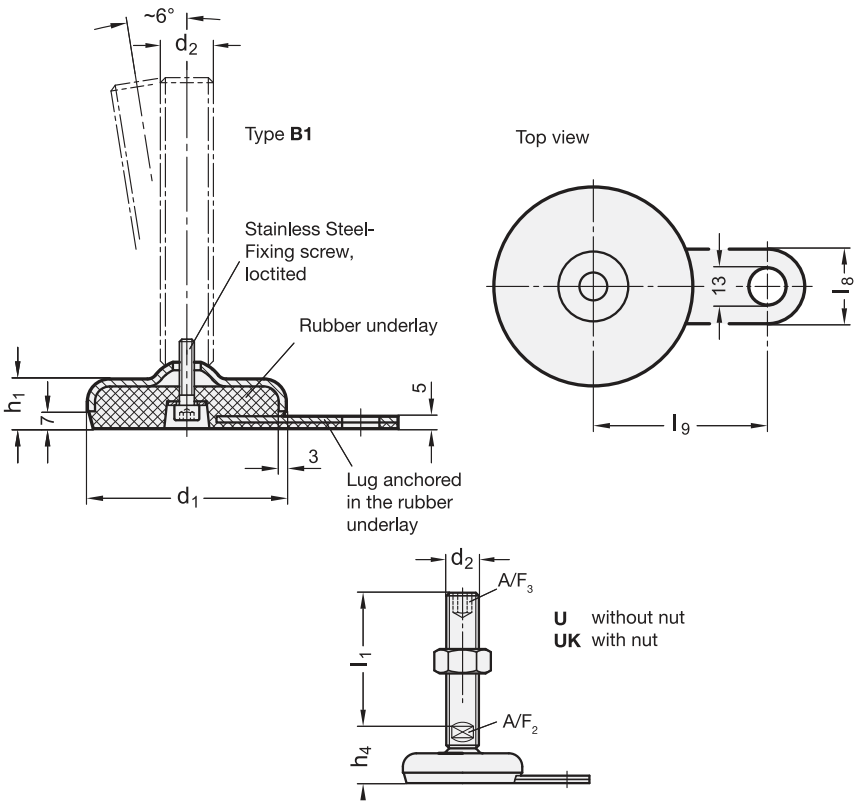

*Complete with version of the Levelling feet (Hexagon socket at the top / Wrench at the bottom)

U without nut

UK with nut

GN 33-U/UK — **STAINLESS STEEL**

Description	d1	d2	l1	h1	h4	l8	l9	A/F 2	A/F 3	Static load in kN	⚖
GN 33-50-M16-75-B1-*	50	M 16	75	18	32	25	45	12	8	28	213
GN 33-50-M16-100-B1-*	50	M 16	100	18	32	25	45	12	8	28	240
GN 33-50-M16-125-B1-*	50	M 16	125	18	32	25	45	12	8	28	277
GN 33-50-M16-150-B1-*	50	M 16	150	18	32	25	45	12	8	28	320
GN 33-50-M16-200-B1-*	50	M 16	200	18	32	25	45	12	8	28	445
GN 33-60-M16-75-B1-*	60	M 16	75	19	33	25	50	12	8	28	260
GN 33-60-M16-100-B1-*	60	M 16	100	19	33	25	50	12	8	28	300
GN 33-60-M16-125-B1-*	60	M 16	125	19	33	25	50	12	8	28	320
GN 33-60-M16-150-B1-*	60	M 16	150	19	33	25	50	12	8	28	350
GN 33-60-M16-200-B1-*	60	M 16	200	19	33	25	50	12	8	28	420
GN 33-80-M16-75-B1-*	80	M 16	75	20	34	30	70	12	8	19	388
GN 33-80-M16-100-B1-*	80	M 16	100	20	34	30	70	12	8	19	420
GN 33-80-M16-125-B1-*	80	M 16	125	20	34	30	70	12	8	19	447
GN 33-80-M16-150-B1-*	80	M 16	150	20	34	30	70	12	8	19	487
GN 33-80-M16-200-B1-*	80	M 16	200	20	34	30	70	12	8	19	540
GN 33-80-M20-75-B1-*	80	M 20	75	20	35	30	70	15	10	19	440
GN 33-80-M20-100-B1-*	80	M 20	100	20	35	30	70	15	10	19	500
GN 33-80-M20-125-B1-*	80	M 20	125	20	35	30	70	15	10	19	550
GN 33-80-M20-150-B1-*	80	M 20	150	20	35	30	70	15	10	19	600

GN 33-U/UK — **STAINLESS STEEL**

Description	d1	d2	l1	h1	h4	l8	l9	A/F 2	A/F 3	Static load in kN	⚖
GN 33-80-M20-200-B1-*	80	M 20	200	20	35	30	70	15	10	19	670
GN 33-80-M24-100-B1-*	80	M 24	100	20	38	30	70	19	12	19	767
GN 33-80-M24-125-B1-*	80	M 24	125	20	38	30	70	19	12	19	700
GN 33-80-M24-150-B1-*	80	M 24	150	20	38	30	70	19	12	19	760
GN 33-80-M24-200-B1-*	80	M 24	200	20	38	30	70	19	12	19	931
GN 33-100-M16-75-B1-*	100	M 16	75	21	35	30	80	12	8	17	515
GN 33-100-M16-100-B1-*	100	M 16	100	21	35	30	80	12	8	17	550
GN 33-100-M16-125-B1-*	100	M 16	125	21	35	30	80	12	8	17	577
GN 33-100-M16-150-B1-*	100	M 16	150	21	35	30	80	12	8	17	608
GN 33-100-M16-200-B1-*	100	M 16	200	21	35	30	80	12	8	17	860
GN 33-100-M20-75-B1-*	100	M 20	75	21	36	30	80	15	10	17	453
GN 33-100-M20-100-B1-*	100	M 20	100	21	36	30	80	15	10	17	620
GN 33-100-M20-125-B1-*	100	M 20	125	21	36	30	80	15	10	17	680
GN 33-100-M20-150-B1-*	100	M 20	150	21	36	30	80	15	10	17	740
GN 33-100-M20-200-B1-*	100	M 20	200	21	36	30	80	15	10	17	850
GN 33-100-M24-100-B1-*	100	M 24	100	21	39	30	80	19	12	17	740
GN 33-100-M24-125-B1-*	100	M 24	125	21	39	30	80	19	12	17	823
GN 33-100-M24-150-B1-*	100	M 24	150	21	39	30	80	19	12	17	885
GN 33-100-M24-200-B1-*	100	M 24	200	21	39	30	80	19	12	17	950

Weight Version U

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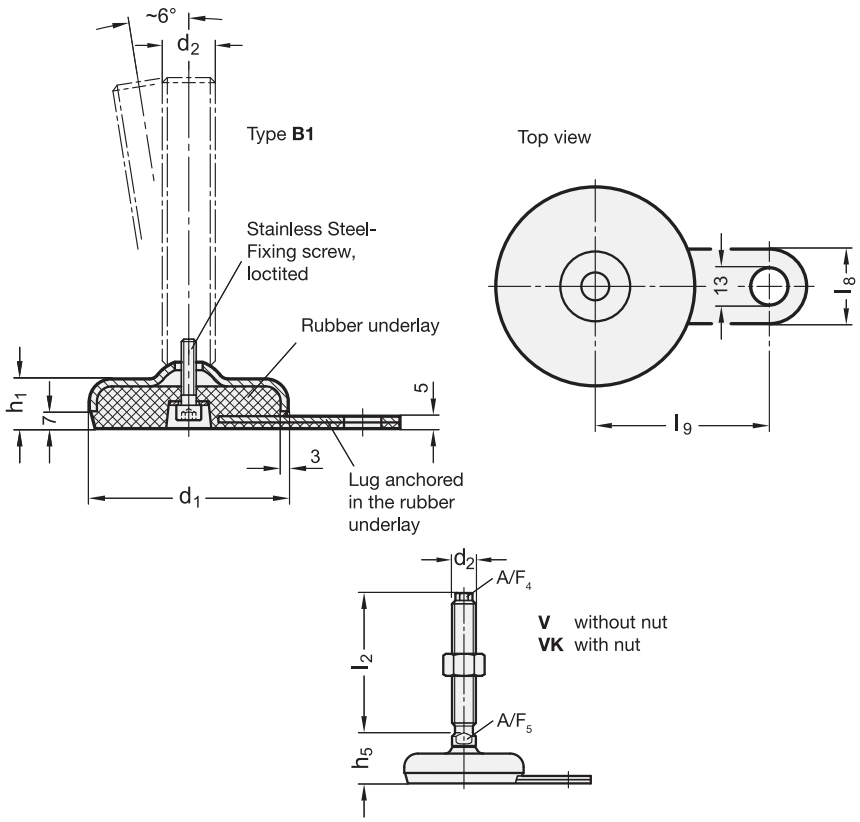
GN 33 | Stainless Steel-Levelling feet



*Complete with version of Levelling feet (External hexagon socket on the top/Wrench flat at the bottom)

V without nut

VK with nut

GN 33-V/VK — **STAINLESS STEEL**

Description	d1	d2	l2	h1	h5	l8	l9	A/F 4	A/F 5	Static load in kN	⚖
GN 33-60-M16-75-B1-*	60	M 16	75	19	30	25	50	10	12	27	328
GN 33-60-M16-100-B1-*	60	M 16	100	19	30	25	50	10	12	27	360
GN 33-60-M16-125-B1-*	60	M 16	125	19	30	25	50	10	12	27	392
GN 33-60-M16-150-B1-*	60	M 16	150	19	30	25	50	10	12	27	425
GN 33-80-M16-75-B1-*	80	M 16	75	20	31	30	70	10	12	24	427
GN 33-80-M16-100-B1-*	80	M 16	100	20	31	30	70	10	12	24	430
GN 33-80-M16-125-B1-*	80	M 16	125	20	31	30	70	10	12	24	462
GN 33-80-M16-150-B1-*	80	M 16	150	20	31	30	70	10	12	24	480
GN 33-80-M20-100-B1-*	80	M 20	100	20	32	30	70	13	16	24	587
GN 33-80-M20-125-B1-*	80	M 20	125	20	32	30	70	13	16	24	638
GN 33-80-M20-150-B1-*	80	M 20	150	20	32	30	70	13	16	24	690
GN 33-80-M20-200-B1-*	80	M 20	200	20	32	30	70	13	16	24	795
GN 33-80-M24-100-B1-*	80	M 24	100	20	35	30	70	17	20	24	645
GN 33-80-M24-150-B1-*	80	M 24	150	20	35	30	70	17	20	24	793
GN 33-80-M24-200-B1-*	80	M 24	200	20	35	30	70	17	20	24	939
GN 33-100-M16-75-B1-*	100	M 16	75	21	32	30	80	10	12	21	530
GN 33-100-M16-100-B1-*	100	M 16	100	21	32	30	80	10	12	21	689
GN 33-100-M16-125-B1-*	100	M 16	125	21	32	30	80	10	12	21	721
GN 33-100-M16-150-B1-*	100	M 16	150	21	32	30	80	10	12	21	790
GN 33-100-M20-100-B1-*	100	M 20	100	21	33	30	80	13	16	21	800
GN 33-100-M20-125-B1-*	100	M 20	125	21	33	30	80	13	16	21	802
GN 33-100-M20-150-B1-*	100	M 20	150	21	33	30	80	13	16	21	820
GN 33-100-M20-200-B1-*	100	M 20	200	21	33	30	80	13	16	21	850
GN 33-100-M24-100-B1-*	100	M 24	100	21	36	30	80	17	20	21	854
GN 33-100-M24-150-B1-*	100	M 24	150	21	36	30	80	17	20	21	1002
GN 33-100-M24-200-B1-*	100	M 24	200	21	36	30	80	17	20	21	1148

Weight Version V

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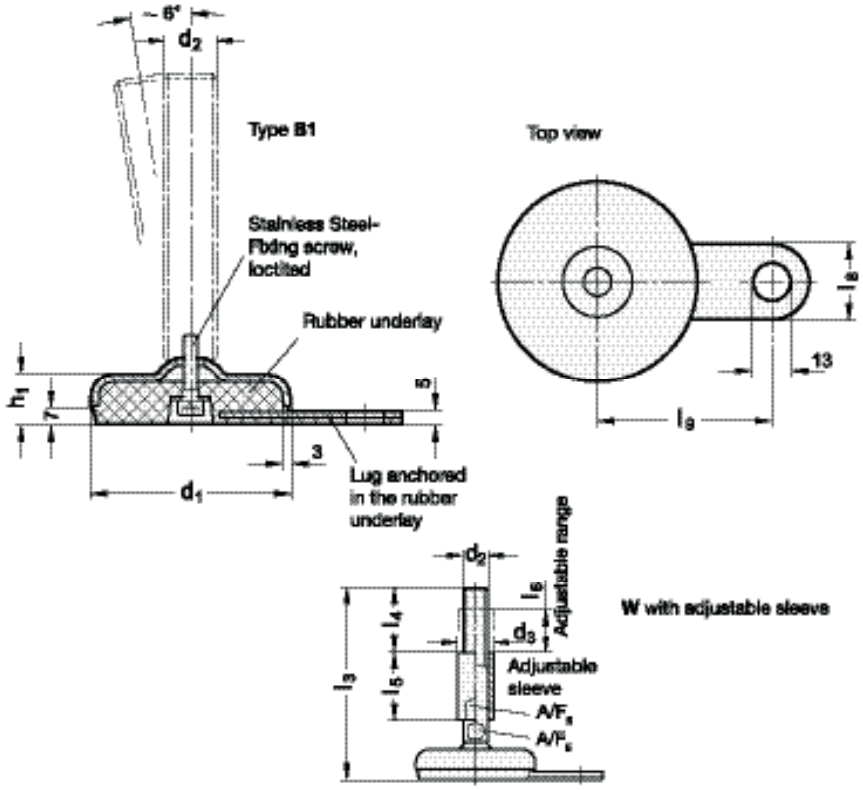
GN 33

Stainless Steel-Levelling feet



GN 33-W **STAINLESS STEEL**

Description	d1	d2	d3	l3	h1	l4	l5	l6	l8	l9	A/F 5	A/F 6	Static load in kN	⚖
GN 33-60-M16-126-B1-W	60	M 16	24	126	19	45	45	29	25	50	12	20	27	380
GN 33-60-M16-151-B1-W	60	M 16	24	151	19	45	45	29	25	50	12	20	27	392
GN 33-60-M16-176-B1-W	60	M 16	24	176	19	45	45	29	25	50	12	20	27	512
GN 33-60-M16-201-B1-W	60	M 16	24	201	19	45	45	29	25	50	12	20	27	500
GN 33-80-M16-127-B1-W	80	M 16	24	127	20	45	45	29	30	70	12	20	24	620
GN 33-80-M16-152-B1-W	80	M 16	24	152	20	45	45	29	30	70	12	20	24	645
GN 33-80-M16-177-B1-W	80	M 16	24	177	20	45	45	29	30	70	12	20	24	690
GN 33-80-M16-202-B1-W	80	M 16	24	202	20	45	45	29	30	70	12	20	24	699
GN 33-80-M20-151-B1-W	80	M 20	30	151	20	56	56	36	30	70	16	24	24	700
GN 33-80-M20-176-B1-W	80	M 20	30	176	20	56	56	36	30	70	16	24	24	898
GN 33-80-M20-201-B1-W	80	M 20	30	201	20	56	56	36	30	70	16	24	24	961
GN 33-80-M20-251-B1-W	80	M 20	30	251	20	56	56	36	30	70	16	24	24	1085
GN 33-80-M24-176-B1-W	80	M 24	35	176	20	67	67	42	30	70	20	30	24	1074
GN 33-80-M24-226-B1-W	80	M 24	35	226	20	67	67	42	30	70	20	30	24	1300
GN 33-80-M24-276-B1-W	80	M 24	35	276	20	67	67	42	30	70	20	30	24	1431
GN 33-100-M16-128-B1-W	100	M 16	24	128	21	45	45	29	30	80	12	20	21	640
GN 33-100-M16-153-B1-W	100	M 16	24	153	21	45	45	29	30	80	12	20	21	680
GN 33-100-M16-178-B1-W	100	M 16	24	178	21	45	45	29	30	80	12	20	21	720
GN 33-100-M16-203-B1-W	100	M 16	24	203	21	45	45	29	30	80	12	20	21	900
GN 33-100-M20-152-B1-W	100	M 20	30	152	21	56	56	36	30	80	16	24	21	864
GN 33-100-M20-177-B1-W	100	M 20	30	177	21	56	56	36	30	80	16	24	21	1062
GN 33-100-M20-202-B1-W	100	M 20	30	202	21	56	56	36	30	80	16	24	21	1125
GN 33-100-M20-252-B1-W	100	M 20	30	252	21	56	56	36	30	80	16	24	21	1249
GN 33-100-M24-177-B1-W	100	M 24	35	177	21	67	67	42	30	80	20	30	21	1000
GN 33-100-M24-227-B1-W	100	M 24	35	227	21	67	67	42	30	80	20	30	21	1100
GN 33-100-M24-277-B1-W	100	M 24	35	277	21	67	67	42	30	80	20	30	21	1640

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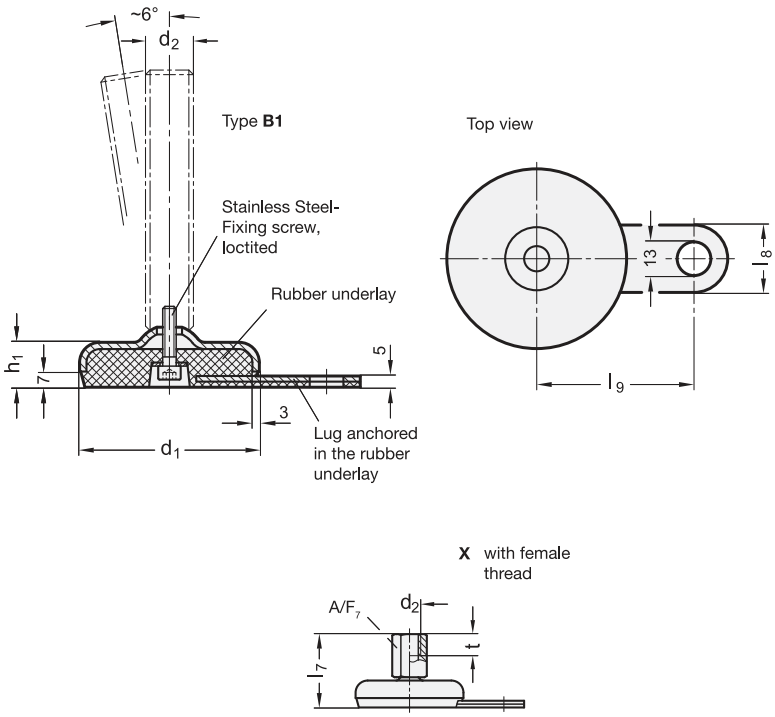

GN 33-X **STAINLESS STEEL**

Description	d1	d2	l7	h1	l8	l9	A/F 7	t	Static load in kN	⚖
GN 33-50-M8-40-B1-X	50	M 8	40	18	25	45	14	8	8	181
GN 33-50-M10-43-B1-X	50	M 10	43	18	25	45	14	10	13	181
GN 33-50-M12-47-B1-X	50	M 12	47	18	25	45	17	12	20	196
GN 33-50-M16-52-B1-X	50	M 16	52	18	25	45	22	16	28	251
GN 33-60-M8-41-B1-X	60	M 8	41	19	25	50	14	8	8	229
GN 33-60-M10-44-B1-X	60	M 10	44	19	25	50	14	10	13	250
GN 33-60-M12-48-B1-X	60	M 12	48	19	25	50	17	12	20	265
GN 33-60-M16-53-B1-X	60	M 16	53	19	25	50	22	16	28	300
GN 33-80-M8-42-B1-X	80	M 8	42	20	30	70	14	8	8	320
GN 33-80-M10-45-B1-X	80	M 10	45	20	30	70	14	10	13	320
GN 33-80-M12-49-B1-X	80	M 12	49	20	30	70	17	12	15	335
GN 33-80-M16-54-B1-X	80	M 16	54	20	30	70	22	16	19	369
GN 33-80-M20-62-B1-X	80	M 20	62	20	30	70	27	20	19	509
GN 33-100-M8-43-B1-X	100	M 8	43	21	30	80	14	8	8	579
GN 33-100-M10-46-B1-X	100	M 10	46	21	30	80	14	10	13	579
GN 33-100-M12-50-B1-X	100	M 12	50	21	30	80	17	12	17	594
GN 33-100-M16-55-B1-X	100	M 16	55	21	30	80	22	16	17	628
GN 33-100-M20-63-B1-X	100	M 20	63	21	30	80	27	20	17	673

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Levelling feet

Steel zinc plated, without fixing lug

SPECIFICATION

Types (Base plate)

- Type **A0**: Steel, zinc plated, without rubber underlay
- Type **A1**: Steel, zinc plated, rubber clipped on, black
- Type **B0**: without rubber underlay, with 2 fixing holes
- Type **A3**: Stainless Steel, blank, rubber vulcanised, black

Version

- Version **S**: without nut, external hexagon at the bottom
- Version **SK**: with nut, external hexagon at the bottom
- Version **U**: without nut, hexagon socket at the top, wrench flat at the bottom
- Version **UK**: with nut, with hexagon socket at the top, wrench flat at the bottom
- Version **X**: with female thread, external hexagon

Base plate

- Type B0 / A0 / A1: Steel, zinc plated
- Type A3: Stainless Steel AISI 303

Threaded stem
Steel, zinc plated, blue passivated

Hexagon nut ISO 4032
Steel, zinc plated, blue passivated

Rubber cap, clipped on
black, Santoprene® (TPE) 80 ≈ Shore A

Rubber underlay, vulcanised
black, Perbunan® (NBR) 70 ± Shore A

INFORMATION

Levelling feet GN 40 are easy and very reasonably priced foot design variants.
They will be delivered mounted and are not removable.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Elastomer characteristics (see page A32)

LOAD RATING OF LEVELLING FEET

Information

The static load bearing capacity given in the table rests on a test series in which the load has been applied perpendicular to the base plate (without rubber underlay). For the values given in the table, the strain relief may result in minor deformations of the base plate.
Bending and buckling stress which often occurs in practice results in a lower load bearing capacity of the adjustment spindle and may have to be taken into account.
Also, the spindle strength is assumed to be ≥ 500 N/mm^2.
The details given on strength are nonbinding guide values without any liability. In general, they do not constitute a warranty of quality.
The user must determine from case to case if a product is suitable for the intended purpose or use. Environmental factors may influence the stated values.

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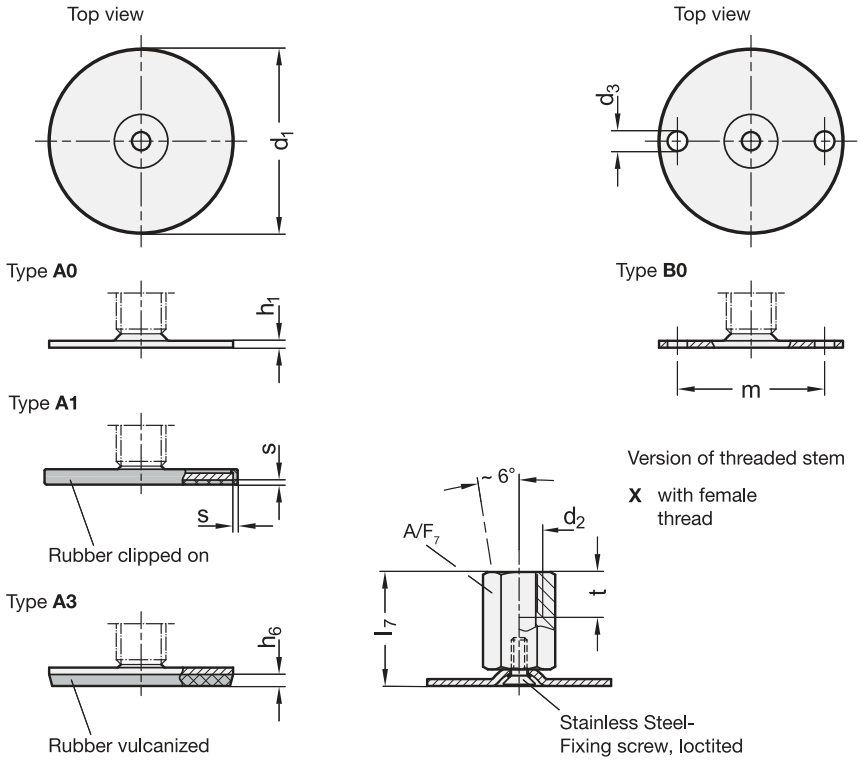
GN 40

Levelling feet



GN 40-X

Description	d1	d2	l7	d3	h1	h6	m	s	A/F 7	t	Static load in kN	⚖
GN 40-40-M8-25-A0-X	40	M 8	25	-	2	-	-	-	14	8	7	50
GN 40-40-M8-25-A1-X	40	M 8	25	-	2	-	-	1.5	14	8	7	50
GN 40-40-M8-25-B0-X	40	M 8	25	5.4	2	-	30	-	14	8	7	63
GN 40-40-M8-25-A3-X	40	M 8	25	-	2	3.5	-	-	14	8	7	91
GN 40-40-M10-28-A0-X	40	M 10	28	-	2	-	-	-	14	10	7	40
GN 40-40-M10-28-A1-X	40	M 10	28	-	2	-	-	1.5	14	10	7	45
GN 40-40-M10-28-B0-X	40	M 10	28	5.4	2	-	30	-	14	10	7	61
GN 40-40-M10-28-A3-X	40	M 10	28	-	2	3.5	-	-	14	10	7	50
GN 40-40-M12-31-A0-X	40	M 12	31	-	2	-	-	-	17	12	7	68
GN 40-40-M12-31-A1-X	40	M 12	31	-	2	-	-	1.5	17	12	7	80
GN 40-40-M12-31-B0-X	40	M 12	31	5.4	2	-	30	-	17	12	7	77
GN 40-40-M12-31-A3-X	40	M 12	31	-	2	3.5	-	-	17	12	7	91
GN 40-40-M16-37-A0-X	40	M 16	37	-	2	-	-	-	22	16	7	91
GN 40-40-M16-37-A1-X	40	M 16	37	-	2	-	-	1.5	22	16	7	91
GN 40-40-M16-37-A3-X	40	M 16	37	-	2	3.5	-	-	22	16	7	91
GN 40-50-M8-25-A0-X	50	M 8	25	-	2.5	-	-	-	14	8	8	91
GN 40-50-M8-25-A1-X	50	M 8	25	-	2.5	-	-	2	14	8	8	91
GN 40-50-M8-25-B0-X	50	M 8	25	6.6	2.5	-	38	-	14	8	8	81
GN 40-50-M8-25-A3-X	50	M 8	25	-	2.5	4	-	-	14	8	8	91
GN 40-50-M10-28-A0-X	50	M 10	28	-	2.5	-	-	-	14	10	8	91
GN 40-50-M10-28-A1-X	50	M 10	28	-	2.5	-	-	2	14	10	8	91
GN 40-50-M10-28-B0-X	50	M 10	28	6.6	2.5	-	38	-	14	10	8	79
GN 40-50-M10-28-A3-X	50	M 10	28	-	2.5	4	-	-	14	10	8	91
GN 40-50-M12-32-A0-X	50	M 12	32	-	2.5	-	-	-	17	12	8	91
GN 40-50-M12-32-A1-X	50	M 12	32	-	2.5	-	-	2	17	12	8	91
GN 40-50-M12-32-B0-X	50	M 12	32	6.6	2.5	-	38	-	17	12	8	90
GN 40-50-M12-32-A3-X	50	M 12	32	-	2.5	4	-	-	17	12	8	91
GN 40-50-M16-37-A0-X	50	M 16	37	-	2.5	-	-	-	22	16	8	91
GN 40-50-M16-37-A1-X	50	M 16	37	-	2.5	-	-	2	22	16	8	91
GN 40-50-M16-37-B0-X	50	M 16	37	6.6	2.5	-	38	-	22	16	8	95
GN 40-50-M16-37-A3-X	50	M 16	37	-	2.5	4	-	-	22	16	8	91
GN 40-60-M8-25-A0-X	60	M 8	25	-	2.5	-	-	-	14	8	8	91
GN 40-60-M8-25-A1-X	60	M 8	25	-	2.5	-	-	2	14	8	8	91

GN 40-X

Description	d1	d2	l7	d3	h1	h6	m	s	A/F 7	t	Static load in kN	⚖
GN 40-60-M8-25-B0-X	60	M 8	25	6.6	2.5	-	48	-	14	8	8	88
GN 40-60-M8-25-A3-X	60	M 8	25	-	2.5	4.5	-	-	14	8	8	91
GN 40-60-M10-28-A0-X	60	M 10	28	-	2.5	-	-	-	14	10	10	91
GN 40-60-M10-28-A1-X	60	M 10	28	-	2.5	-	-	2	14	10	10	91
GN 40-60-M10-28-B0-X	60	M 10	28	6.6	2.5	-	48	-	14	10	10	86
GN 40-60-M10-28-A3-X	60	M 10	28	-	2.5	4.5	-	-	14	10	10	91
GN 40-60-M12-32-A0-X	60	M 12	32	-	2.5	-	-	-	17	12	10	91
GN 40-60-M12-32-A1-X	60	M 12	32	-	2.5	-	-	2	17	12	10	91
GN 40-60-M12-32-B0-X	60	M 12	32	6.6	2.5	-	48	-	17	12	10	88
GN 40-60-M12-32-A3-X	60	M 12	32	-	2.5	4.5	-	-	17	12	10	91
GN 40-60-M16-37-A0-X	60	M 16	37	-	2.5	-	-	-	22	16	10	91
GN 40-60-M16-37-A1-X	60	M 16	37	-	2.5	-	-	2	22	16	10	91
GN 40-60-M16-37-B0-X	60	M 16	37	6.6	2.5	-	48	-	22	16	10	86
GN 40-60-M16-37-A3-X	60	M 16	37	-	2.5	4.5	-	-	22	16	10	91
GN 40-80-M8-26-A0-X	80	M 8	26	-	3	-	-	-	14	8	8	91
GN 40-80-M8-26-A1-X	80	M 8	26	-	3	-	-	2	14	8	8	91
GN 40-80-M8-26-B0-X	80	M 8	26	8.6	3	-	64	-	14	8	8	85
GN 40-80-M8-26-A3-X	80	M 8	26	-	3	5	-	-	14	8	8	91
GN 40-80-M10-29-A0-X	80	M 10	29	-	3	-	-	-	14	10	10	91
GN 40-80-M10-29-A1-X	80	M 10	29	-	3	-	-	2	14	10	10	91
GN 40-80-M10-29-B0-X	80	M 10	29	8.6	3	-	64	-	14	10	10	91
GN 40-80-M10-29-A3-X	80	M 10	29	-	3	5	-	-	14	10	10	91
GN 40-80-M12-32-A0-X	80	M 12	32	-	3	-	-	-	17	12	12	91
GN 40-80-M12-32-A1-X	80	M 12	32	-	3	-	-	2	17	12	12	91
GN 40-80-M12-32-B0-X	80	M 12	32	8.6	3	-	64	-	17	12	12	90
GN 40-80-M12-32-A3-X	80	M 12	32	-	3	5	-	-	17	12	12	191
GN 40-80-M16-38-A0-X	80	M 16	38	-	3	-	-	-	22	16	12	91
GN 40-80-M16-38-A1-X	80	M 16	38	-	3	-	-	2	22	16	12	91
GN 40-80-M16-38-B0-X	80	M 16	38	8.6	3	-	64	-	22	16	12	89
GN 40-80-M16-38-A3-X	80	M 16	38	-	3	5	-	-	22	16	12	91
GN 40-80-M20-45-A0-X	80	M 20	45	-	3	-	-	-	27	20	16	91
GN 40-80-M20-45-A1-X	80	M 20	45	-	3	-	-	2	27	20	16	91
GN 40-80-M20-45-B0-X	80	M 20	45	8.6	3	-	64	-	27	20	16	89
GN 40-80-M20-45-A3-X	80	M 20	45	-	3	5	-	-	27	20	16	91

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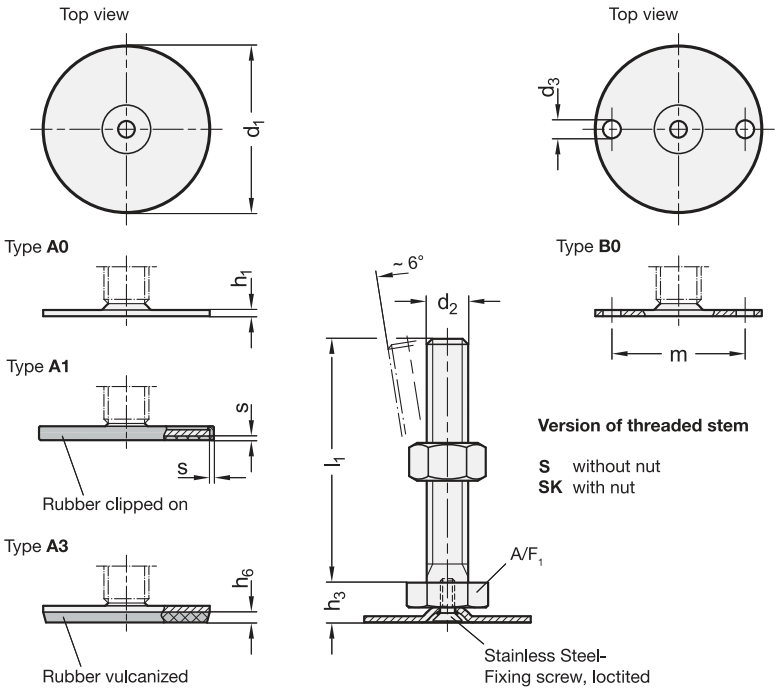

*Complete with version of the Levelling feet (External hexagon at the bottom)

S without nut

SK with nut

GN 40-S/SK

Description	d1	d2	l1	d3	h1	h6	m	s	h3	A/F 1	Static load in kN	⚖
GN 40-40-M8-40-A0-*	40	M 8	40	-	2	-	-	-	11	17	7	50
GN 40-40-M8-40-A1-*	40	M 8	40	-	2	-	-	1.5	11	17	7	50
GN 40-40-M8-40-B0-*	40	M 8	40	5.4	2	-	30	-	11	17	7	57
GN 40-40-M8-40-A3-*	40	M 8	40	-	2	3.5	-	-	11	17	7	52
GN 40-40-M8-50-A0-*	40	M 8	50	-	2	-	-	-	11	17	7	51
GN 40-40-M8-50-A1-*	40	M 8	50	-	2	-	-	1.5	11	17	7	53
GN 40-40-M8-50-B0-*	40	M 8	50	5.4	2	-	30	-	11	17	7	43
GN 40-40-M8-50-A3-*	40	M 8	50	-	2	3.5	-	-	11	17	7	54
GN 40-40-M8-63-A0-*	40	M 8	63	-	2	-	-	-	11	17	7	55
GN 40-40-M8-63-A1-*	40	M 8	63	-	2	-	-	1.5	11	17	7	57
GN 40-40-M8-63-B0-*	40	M 8	63	5.4	2	-	30	-	11	17	7	47
GN 40-40-M8-63-A3-*	40	M 8	63	-	2	3.5	-	-	11	17	7	58
GN 40-40-M10-50-A0-*	40	M 10	50	-	2	-	-	-	11	17	7	55
GN 40-40-M10-50-A1-*	40	M 10	50	-	2	-	-	1.5	11	17	7	58
GN 40-40-M10-50-B0-*	40	M 10	50	5.4	2	-	30	-	11	17	7	55
GN 40-40-M10-50-A3-*	40	M 10	50	-	2	3.5	-	-	11	17	7	74
GN 40-40-M10-60-A0-*	40	M 10	60	-	2	-	-	-	11	17	7	60
GN 40-40-M10-60-A1-*	40	M 10	60	-	2	-	-	1.5	11	17	7	73
GN 40-40-M10-60-B0-*	40	M 10	60	5.4	2	-	30	-	11	17	7	60
GN 40-40-M10-60-A3-*	40	M 10	60	-	2	3.5	-	-	11	17	7	77
GN 40-40-M10-80-A0-*	40	M 10	80	-	2	-	-	-	11	17	7	82
GN 40-40-M10-80-A1-*	40	M 10	80	-	2	-	-	1.5	11	17	7	87
GN 40-40-M10-80-B0-*	40	M 10	80	5.4	2	-	30	-	11	17	7	90
GN 40-40-M10-80-A3-*	40	M 10	80	-	2	3.5	-	-	11	17	7	90
GN 40-40-M10-100-A0-*	40	M 10	100	-	2	-	-	-	11	17	7	90
GN 40-40-M10-100-A1-*	40	M 10	100	-	2	-	-	1.5	11	17	7	97
GN 40-40-M10-100-B0-*	40	M 10	100	5.4	2	-	30	-	11	17	7	97
GN 40-40-M10-100-A3-*	40	M 10	100	-	2	3.5	-	-	11	17	7	98
GN 40-40-M12-60-A0-*	40	M 12	60	-	2	-	-	-	11	17	7	90
GN 40-40-M12-60-A1-*	40	M 12	60	-	2	-	-	1.5	11	17	7	90
GN 40-40-M12-60-B0-*	40	M 12	60	5.4	2	-	30	-	11	17	7	90
GN 40-40-M12-60-A3-*	40	M 12	60	-	2	3.5	-	-	11	17	7	91

GN 40-S/SK

Description	d1	d2	l1	d3	h1	h6	m	s	h3	A/F 1	Static load in kN	⚖
GN 40-40-M12-80-A0-*	40	M 12	80	-	2	-	-	-	11	17	7	103
GN 40-40-M12-80-A1-*	40	M 12	80	-	2	-	-	1.5	11	17	7	105
GN 40-40-M12-80-B0-*	40	M 12	80	5.4	2	-	30	-	11	17	7	90
GN 40-40-M12-80-A3-*	40	M 12	80	-	2	3.5	-	-	11	17	7	110
GN 40-40-M12-100-A0-*	40	M 12	100	-	2	-	-	-	11	17	7	118
GN 40-40-M12-100-A1-*	40	M 12	100	-	2	-	-	1.5	11	17	7	120
GN 40-40-M12-100-B0-*	40	M 12	100	5.4	2	-	30	-	11	17	7	119
GN 40-40-M12-100-A3-*	40	M 12	100	-	2	3.5	-	-	11	17	7	120
GN 40-40-M12-125-A0-*	40	M 12	125	-	2	-	-	-	11	17	7	140
GN 40-40-M12-125-A1-*	40	M 12	125	-	2	-	-	1.5	11	17	7	140
GN 40-40-M12-125-B0-*	40	M 12	125	5.4	2	-	30	-	11	17	7	146
GN 40-40-M12-125-A3-*	40	M 12	125	-	2	3.5	-	-	11	17	7	140
GN 40-50-M8-40-A0-*	50	M 8	40	-	2.5	-	-	-	11	17	8	70
GN 40-50-M8-40-A1-*	50	M 8	40	-	2.5	-	-	2	11	17	8	71
GN 40-50-M8-40-B0-*	50	M 8	40	6.6	2.5	-	38	-	11	17	8	58
GN 40-50-M8-40-A3-*	50	M 8	40	-	2.5	4	-	-	11	17	8	95
GN 40-50-M8-50-A0-*	50	M 8	50	-	2.5	-	-	-	11	17	8	69
GN 40-50-M8-50-A1-*	50	M 8	50	-	2.5	-	-	2	11	17	8	72
GN 40-50-M8-50-B0-*	50	M 8	50	6.6	2.5	-	38	-	11	17	8	61
GN 40-50-M8-50-A3-*	50	M 8	50	-	2.5	4	-	-	11	17	8	80
GN 40-50-M8-63-A0-*	50	M 8	63	-	2.5	-	-	-	11	17	8	72
GN 40-50-M8-63-A1-*	50	M 8	63	-	2.5	-	-	2	11	17	8	79
GN 40-50-M8-63-B0-*	50	M 8	63	6.6	2.5	-	38	-	11	17	8	65
GN 40-50-M8-63-A3-*	50	M 8	63	-	2.5	4	-	-	11	17	8	80
GN 40-50-M10-50-A0-*	50	M 10	50	-	2.5	-	-	-	11	17	8	82
GN 40-50-M10-50-A1-*	50	M 10	50	-	2.5	-	-	2	11	17	8	89
GN 40-50-M10-50-B0-*	50	M 10	50	6.6	2.5	-	38	-	11	17	8	91
GN 40-50-M10-50-A3-*	50	M 10	50	-	2.5	4	-	-	11	17	8	91
GN 40-50-M10-60-A0-*	50	M 10	60	-	2.5	-	-	-	11	17	8	90
GN 40-50-M10-60-A1-*	50	M 10	60	-	2.5	-	-	2	11	17	8	88
GN 40-50-M10-60-B0-*	50	M 10	60	6.6	2.5	-	38	-	11	17	8	95
GN 40-50-M10-60-A3-*	50	M 10	60	-	2.5	4	-	-	11	17	8	90
GN 40-50-M10-80-A0-*	50	M 10	80	-	2.5	-	-	-	11	17	8	98
GN 40-50-M10-80-A1-*	50	M 10	80	-	2.5	-	-	2	11	17	8	103

Weight Version S

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*Complete with version of the Levelling feet (External hexagon at the bottom)

S without nut

SK with nut

GN 40-S/SK

Description	d1	d2	l1	d3	h1	h6	m	s	h3	A/F 1	Static load in kN	⚖
GN 40-50-M10-80-B0-*	50	M 10	80	6.6	2.5	-	38	-	11	17	8	92
GN 40-50-M10-80-A3-*	50	M 10	80	-	2.5	4	-	-	11	17	8	100
GN 40-50-M10-100-A0-*	50	M 10	100	-	2.5	-	-	-	11	17	8	108
GN 40-50-M10-100-A1-*	50	M 10	100	-	2.5	-	-	2	11	17	8	100
GN 40-50-M10-100-B0-*	50	M 10	100	6.6	2.5	-	38	-	11	17	8	115
GN 40-50-M10-100-A3-*	50	M 10	100	-	2.5	4	-	-	11	17	8	120
GN 40-50-M12-60-A0-*	50	M 12	60	-	2.5	-	-	-	11	17	8	106
GN 40-50-M12-60-A1-*	50	M 12	60	-	2.5	-	-	2	11	17	8	112
GN 40-50-M12-60-B0-*	50	M 12	60	6.6	2.5	-	38	-	11	17	8	108
GN 40-50-M12-60-A3-*	50	M 12	60	-	2.5	4	-	-	11	17	8	120
GN 40-50-M12-80-A0-*	50	M 12	80	-	2.5	-	-	-	11	17	8	119
GN 40-50-M12-80-A1-*	50	M 12	80	-	2.5	-	-	2	11	17	8	130
GN 40-50-M12-80-B0-*	50	M 12	80	6.6	2.5	-	38	-	11	17	8	123
GN 40-50-M12-80-A3-*	50	M 12	80	-	2.5	4	-	-	11	17	8	140
GN 40-50-M12-100-A0-*	50	M 12	100	-	2.5	-	-	-	11	17	8	137
GN 40-50-M12-100-A1-*	50	M 12	100	-	2.5	-	-	2	11	17	8	132
GN 40-50-M12-100-B0-*	50	M 12	100	6.6	2.5	-	38	-	11	17	8	137
GN 40-50-M12-100-A3-*	50	M 12	100	-	2.5	4	-	-	11	17	8	140
GN 40-50-M12-125-A0-*	50	M 12	125	-	2.5	-	-	-	11	17	8	184
GN 40-50-M12-125-A1-*	50	M 12	125	-	2.5	-	-	2	11	17	8	140
GN 40-50-M12-125-B0-*	50	M 12	125	6.6	2.5	-	38	-	11	17	8	140
GN 40-50-M12-125-A3-*	50	M 12	125	-	2.5	4.5	-	-	11	17	8	150
GN 40-60-M8-40-A0-*	60	M 8	40	-	2.5	-	-	-	11	17	8	84
GN 40-60-M8-40-A1-*	60	M 8	40	-	2.5	-	-	2	11	17	8	91
GN 40-60-M8-40-B0-*	60	M 8	40	6.6	2.5	-	48	-	11	17	8	75
GN 40-60-M8-40-A3-*	60	M 8	40	-	2.5	4.5	-	-	11	17	8	100
GN 40-60-M8-50-A0-*	60	M 8	50	-	2.5	-	-	-	11	17	8	102
GN 40-60-M8-50-A1-*	60	M 8	50	-	2.5	-	-	2	11	17	8	95
GN 40-60-M8-50-B0-*	60	M 8	50	6.6	2.5	-	48	-	11	17	8	90
GN 40-60-M8-50-A3-*	60	M 8	50	-	2.5	4.5	-	-	11	17	8	102
GN 40-60-M8-63-A0-*	60	M 8	63	-	2.5	-	-	-	11	17	8	92
GN 40-60-M8-63-A1-*	60	M 8	63	-	2.5	-	-	2	11	17	8	94
GN 40-60-M8-63-B0-*	60	M 8	63	6.6	2.5	-	48	-	11	17	8	90
GN 40-60-M8-63-A3-*	60	M 8	63	-	2.5	4.5	-	-	11	17	8	100
GN 40-60-M10-50-A0-*	60	M 10	50	-	2.5	-	-	-	11	17	10	100
GN 40-60-M10-50-A1-*	60	M 10	50	-	2.5	-	-	2	11	17	10	107
GN 40-60-M10-50-B0-*	60	M 10	50	6.6	2.5	-	48	-	11	17	10	107
GN 40-60-M10-50-A3-*	60	M 10	50	-	2.5	4.5	-	-	11	17	10	120
GN 40-60-M10-60-A0-*	60	M 10	60	-	2.5	-	-	-	11	17	10	104
GN 40-60-M10-60-A1-*	60	M 10	60	-	2.5	-	-	2	11	17	10	100
GN 40-60-M10-60-B0-*	60	M 10	60	6.6	2.5	-	48	-	11	17	10	112
GN 40-60-M10-60-A3-*	60	M 10	60	-	2.5	5	-	-	11	17	10	120
GN 40-60-M10-80-A0-*	60	M 10	80	-	2.5	-	-	-	11	17	10	114
GN 40-60-M10-80-A1-*	60	M 10	80	-	2.5	-	-	2	11	17	10	120
GN 40-60-M10-80-B0-*	60	M 10	80	6.6	2.5	-	48	-	11	17	10	114
GN 40-60-M10-80-A3-*	60	M 10	80	-	2.5	5	-	-	11	17	10	130
GN 40-60-M10-100-A0-*	60	M 10	100	-	2.5	-	-	-	11	17	10	120
GN 40-60-M10-100-A1-*	60	M 10	100	-	2.5	-	-	2	11	17	10	125
GN 40-60-M10-100-B0-*	60	M 10	100	6.6	2.5	-	48	-	11	17	10	120
GN 40-60-M10-100-A3-*	60	M 10	100	-	2.5	5	-	-	11	17	10	130
GN 40-60-M12-60-A0-*	60	M 12	60	-	2.5	-	-	-	11	17	10	121

GN 40-S/SK

Description	d1	d2	l1	d3	h1	h6	m	s	h3	A/F 1	Static load in kN	⚖
GN 40-60-M12-60-A1-*	60	M 12	60	-	2.5	-	-	2	11	17	10	120
GN 40-60-M12-60-B0-*	60	M 12	60	6.6	2.5	-	48	-	11	17	10	124
GN 40-60-M12-60-A3-*	60	M 12	60	-	2.5	5	-	-	11	17	10	120
GN 40-60-M12-80-A0-*	60	M 12	80	-	2.5	-	-	-	11	17	10	136
GN 40-60-M12-80-A1-*	60	M 12	80	-	2.5	-	-	2	11	17	10	140
GN 40-60-M12-80-B0-*	60	M 12	80	6.6	2.5	-	48	-	11	17	10	139
GN 40-60-M12-80-A3-*	60	M 12	80	-	2.5	5	-	-	11	17	10	152
GN 40-60-M12-100-A0-*	60	M 12	100	-	2.5	-	-	-	11	17	10	151
GN 40-60-M12-100-A1-*	60	M 12	100	-	2.5	-	-	2	11	17	10	140
GN 40-60-M12-100-B0-*	60	M 12	100	6.6	2.5	-	48	-	11	17	10	153
GN 40-60-M12-100-A3-*	60	M 12	100	-	2.5	5	-	-	11	17	10	160
GN 40-60-M12-125-A0-*	60	M 12	125	-	2.5	-	-	-	11	17	10	167
GN 40-60-M12-125-A1-*	60	M 12	125	-	2.5	-	-	2	11	17	10	180
GN 40-60-M12-125-B0-*	60	M 12	125	6.6	2.5	-	48	-	11	17	10	167
GN 40-60-M12-125-A3-*	60	M 12	125	-	2.5	5	-	-	11	17	10	180
GN 40-80-M8-40-A0-*	80	M 8	40	-	3	-	-	-	12	17	8	170
GN 40-80-M8-40-A1-*	80	M 8	40	-	3	-	-	2	12	17	8	160
GN 40-80-M8-40-B0-*	80	M 8	40	8.6	3	-	64	-	12	17	8	135
GN 40-80-M8-40-A3-*	80	M 8	40	-	3	5	-	-	12	17	8	180
GN 40-80-M8-50-A0-*	80	M 8	50	-	3	-	-	-	12	17	8	150
GN 40-80-M8-50-A1-*	80	M 8	50	-	3	-	-	2	12	17	8	160
GN 40-80-M8-50-B0-*	80	M 8	50	8.6	3	-	64	-	12	17	8	138
GN 40-80-M8-50-A3-*	80	M 8	50	-	3	5	-	-	12	17	8	170
GN 40-80-M8-63-A0-*	80	M 8	63	-	3	-	-	-	12	17	8	380
GN 40-80-M8-63-A1-*	80	M 8	63	-	3	-	-	2	12	17	8	160
GN 40-80-M8-63-B0-*	80	M 8	63	8.6	3	-	64	-	12	17	8	142
GN 40-80-M8-63-A3-*	80	M 8	63	-	3	5	-	-	12	17	8	179
GN 40-80-M10-50-A0-*	80	M 10	50	-	3	-	-	-	12	17	10	166
GN 40-80-M10-50-A1-*	80	M 10	50	-	3	-	-	2	12	17	10	170
GN 40-80-M10-50-B0-*	80	M 10	50	8.6	3	-	64	-	12	17	10	168
GN 40-80-M10-50-A3-*	80	M 10	50	-	3	5	-	-	12	17	10	190
GN 40-80-M10-60-A0-*	80	M 10	60	-	3	-	-	-	12	17	10	180
GN 40-80-M10-60-A1-*	80	M 10	60	-	3	-	-	2	12	17	10	180
GN 40-80-M10-60-B0-*	80	M 10	60	8.6	3	-	64	-	12	17	10	173
GN 40-80-M10-60-A3-*	80	M 10	60	-	3	5	-	-	12	17	10	200
GN 40-80-M10-80-A0-*	80	M 10	80	-	3	-	-	-	12	17	10	181
GN 40-80-M10-80-A1-*	80	M 10	80	-	3	-	-	2	12	17	10	200
GN 40-80-M10-80-B0-*	80	M 10	80	8.6	3	-	64	-	12	17	10	182
GN 40-80-M10-80-A3-*	80	M 10	80	-	3	5	-	-	12	17	10	200
GN 40-80-M10-100-A0-*	80	M 10	100	-	3	-	-	-	12	17	10	189
GN 40-80-M10-100-A1-*	80	M 10	100	-	3	-	-	2	12	17	10	200
GN 40-80-M10-100-B0-*	80	M 10	100	8.6	3	-	64	-	12	17	10	192
GN 40-80-M10-100-A3-*	80	M 10	100	-	3	5	-	-	12	17	10	225
GN 40-80-M12-60-A0-*	80	M 12	60	-	3	-	-	-	12	17	12	180
GN 40-80-M12-60-A1-*	80	M 12	60	-	3	-	-	2	12	17	12	205
GN 40-80-M12-60-B0-*	80	M 12	60	8.6	3	-	64	-	12	17	12	185
GN 40-80-M12-60-A3-*	80	M 12	60	-	3	5	-	-	12	17	12	220
GN 40-80-M12-80-A0-*	80	M 12	80	-	3	-	-	-	12	17	12	201
GN 40-80-M12-80-A1-*	80	M 12	80	-	3	-	-	2	12	17	12	200
GN 40-80-M12-80-B0-*	80	M 12	80	8.6	3	-	64	-	12	17	12	200
GN 40-80-M12-80-A3-*	80	M 12	80	-	3	5	-	-	12	17	12	210
GN 40-80-M12-100-A0-*	80	M 12	100	-	3	-	-	-	12	17	12	215
GN 40-80-M12-100-A1-*	80	M 12	100	-	3	-	-	2	12	17	12	230
GN 40-80-M12-100-B0-*	80	M 12	100	8.6	3	-	64	-	12	17	12	214
GN 40-80-M12-100-A3-*	80	M 12	100	-	3	5	-	-	12	17	12	250
GN 40-80-M12-125-A0-*	80	M 12	125	-	3	-	-	-	12	17	12	233
GN 40-80-M12-125-A1-*	80	M 12	125	-	3	-	-	2	12	17	12	240
GN 40-80-M12-125-B0-*	80	M 12	125	8.6	3	-	64	-	12	17	12	250
GN 40-80-M12-125-A3-*	80	M 12	125	-	3	5	-	-	12	17	12	260

Weight Version S

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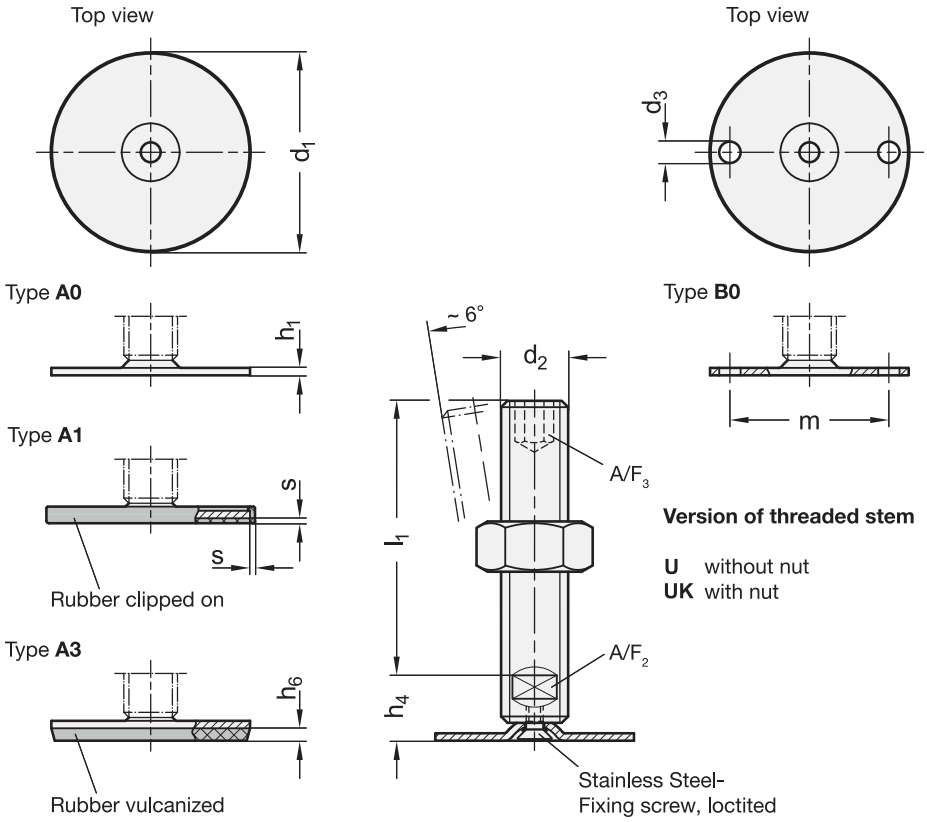

*Complete with version of the Levelling feet (Hexagon socket at the top / Wrench at the bottom)

U without nut

UK with nut

GN 40-U/UK

Description	d1	d2	l1	d3	h1	h6	m	s	h4	A/F2	A/F3	Static load in kN	⚖
GN 40-40-M16-75-A0-*	40	M 16	75	-	2	-	-	-	17	12	8	7	153
GN 40-40-M16-75-A1-*	40	M 16	75	-	2	-	-	1.5	17	12	8	7	157
GN 40-40-M16-75-A3-*	40	M 16	75	-	2	3.5	-	-	17	12	8	7	160
GN 40-40-M16-100-A0-*	40	M 16	100	-	2	-	-	-	17	12	8	7	192
GN 40-40-M16-100-A1-*	40	M 16	100	-	2	-	-	1.5	17	12	8	7	180
GN 40-40-M16-100-A3-*	40	M 16	100	-	2	3.5	-	-	17	12	8	7	206
GN 40-40-M16-125-A0-*	40	M 16	125	-	2	-	-	-	17	12	8	7	215
GN 40-40-M16-125-A1-*	40	M 16	125	-	2	-	-	1.5	17	12	8	7	220
GN 40-40-M16-125-A3-*	40	M 16	125	-	2	3.5	-	-	17	12	8	7	220
GN 40-40-M16-150-A0-*	40	M 16	150	-	2	-	-	-	17	12	8	7	251
GN 40-40-M16-150-A1-*	40	M 16	150	-	2	-	-	1.5	17	12	8	7	254
GN 40-40-M16-150-A3-*	40	M 16	150	-	2	3.5	-	-	17	12	8	7	260
GN 40-40-M16-200-A0-*	40	M 16	200	-	2	-	-	-	17	12	8	7	300
GN 40-40-M16-200-A1-*	40	M 16	200	-	2	-	-	1.5	17	12	8	7	300
GN 40-40-M16-200-A3-*	40	M 16	200	-	2	3.5	-	-	17	12	8	7	325
GN 40-50-M16-75-A0-*	50	M 16	75	-	2.5	-	-	-	17	12	8	8	170
GN 40-50-M16-75-A1-*	50	M 16	75	-	2.5	-	-	2	17	12	8	8	177
GN 40-50-M16-75-B0-*	50	M 16	75	6.6	2.5	-	38	-	17	12	8	8	160
GN 40-50-M16-75-A3-*	50	M 16	75	-	2.5	4	-	-	17	12	8	8	180
GN 40-50-M16-100-A0-*	50	M 16	100	-	2.5	-	-	-	17	12	8	8	205
GN 40-50-M16-100-A1-*	50	M 16	100	-	2.5	-	-	2	17	12	8	8	213
GN 40-50-M16-100-B0-*	50	M 16	100	6.6	2.5	-	38	-	17	12	8	8	172
GN 40-50-M16-100-A3-*	50	M 16	100	-	2.5	4	-	-	17	12	8	8	220
GN 40-50-M16-125-A0-*	50	M 16	125	-	2.5	-	-	-	17	12	8	8	243

GN 40-U/UK

Description	d1	d2	l1	d3	h1	h6	m	s	h4	A/F2	A/F3	Static load in kN	⚖
GN 40-50-M16-125-A1-*	50	M 16	125	-	2.5	-	-	2	17	12	8	8	241
GN 40-50-M16-125-B0-*	50	M 16	125	6.6	2.5	-	38	-	17	12	8	8	204
GN 40-50-M16-125-A3-*	50	M 16	125	-	2.5	4	-	-	17	12	8	8	250
GN 40-50-M16-150-A0-*	50	M 16	150	-	2.5	-	-	-	17	12	8	8	268
GN 40-50-M16-150-A1-*	50	M 16	150	-	2.5	-	-	2	17	12	8	8	280
GN 40-50-M16-150-B0-*	50	M 16	150	6.6	2.5	-	38	-	17	12	8	8	236
GN 40-50-M16-150-A3-*	50	M 16	150	-	2.5	4	-	-	17	12	8	8	280
GN 40-50-M16-200-A0-*	50	M 16	200	-	2.5	-	-	-	17	12	8	8	331
GN 40-50-M16-200-A1-*	50	M 16	200	-	2.5	-	-	2	17	12	8	8	340
GN 40-50-M16-200-B0-*	50	M 16	200	6.6	2.5	-	38	-	17	12	8	8	300
GN 40-50-M16-200-A3-*	50	M 16	200	-	2.5	4	-	-	17	12	8	8	320
GN 40-60-M16-75-A0-*	60	M 16	75	-	2.5	-	-	-	17	12	8	10	192
GN 40-60-M16-75-A1-*	60	M 16	75	-	2.5	-	-	2	17	12	8	10	200
GN 40-60-M16-75-B0-*	60	M 16	75	6.6	2.5	-	48	-	17	12	8	10	157
GN 40-60-M16-75-A3-*	60	M 16	75	-	2.5	4.5	-	-	17	12	8	10	250
GN 40-60-M16-100-A0-*	60	M 16	100	-	2.5	-	-	-	17	12	8	10	190
GN 40-60-M16-100-A1-*	60	M 16	100	-	2.5	-	-	2	17	12	8	10	220
GN 40-60-M16-100-B0-*	60	M 16	100	6.6	2.5	-	48	-	17	12	8	10	189
GN 40-60-M16-100-A3-*	60	M 16	100	-	2.5	4.5	-	-	17	12	8	10	240
GN 40-60-M16-125-A0-*	60	M 16	125	-	2.5	-	-	-	17	12	8	10	259
GN 40-60-M16-125-A1-*	60	M 16	125	-	2.5	-	-	2	17	12	8	10	240
GN 40-60-M16-125-B0-*	60	M 16	125	6.6	2.5	-	48	-	17	12	8	10	221
GN 40-60-M16-125-A3-*	60	M 16	125	-	2.5	4.5	-	-	17	12	8	10	250
GN 40-60-M16-150-A0-*	60	M 16	150	-	2.5	-	-	-	17	12	8	10	283
GN 40-60-M16-150-A1-*	60	M 16	150	-	2.5	-	-	2	17	12	8	10	300

Weight Version U

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*Complete with version of the Levelling feet (Hexagon socket at the top / Wrench at the bottom)

U without nut

UK with nut

GN 40-U/UK

Description	d1	d2	l1	d3	h1	h6	m	s	h4	A/F 2	A/F 3	Static load in kN	⚖
GN 40-60-M16-150-B0-*	60	M 16	150	6.6	2.5	-	48	-	17	12	8	10	253
GN 40-60-M16-150-A3-*	60	M 16	150	-	2.5	4.5	-	-	17	12	8	10	300
GN 40-60-M16-200-A0-*	60	M 16	200	-	2.5	-	-	-	17	12	8	10	348
GN 40-60-M16-200-A1-*	60	M 16	200	-	2.5	-	-	2	17	12	8	10	340
GN 40-60-M16-200-B0-*	60	M 16	200	6.6	2.5	-	48	-	17	12	8	10	313
GN 40-60-M16-200-A3-*	60	M 16	200	-	2.5	4.5	-	-	17	12	8	10	360
GN 40-80-M16-75-A0-*	80	M 16	75	-	3	-	-	-	18	12	8	12	220
GN 40-80-M16-75-A1-*	80	M 16	75	-	3	-	-	2	18	12	8	12	220
GN 40-80-M16-75-B0-*	80	M 16	75	8.6	3	-	64	-	18	12	8	12	218
GN 40-80-M16-75-A3-*	80	M 16	75	-	3	5	-	-	18	12	8	12	280
GN 40-80-M16-100-A0-*	80	M 16	100	-	3	-	-	-	18	12	8	12	270
GN 40-80-M16-100-A1-*	80	M 16	100	-	3	-	-	2	18	12	8	12	300
GN 40-80-M16-100-B0-*	80	M 16	100	8.6	3	-	64	-	18	12	8	12	250
GN 40-80-M16-100-A3-*	80	M 16	100	-	3	5	-	-	18	12	8	12	320
GN 40-80-M16-125-A0-*	80	M 16	125	-	3	-	-	-	18	12	8	12	300
GN 40-80-M16-125-A1-*	80	M 16	125	-	3	-	-	2	18	12	8	21	331
GN 40-80-M16-125-B0-*	80	M 16	125	8.6	3	-	64	-	18	12	8	12	282
GN 40-80-M16-125-A3-*	80	M 16	125	-	3	5	-	-	18	12	8	21	340
GN 40-80-M16-150-A0-*	80	M 16	150	-	3	-	-	-	18	12	8	12	320
GN 40-80-M16-150-A1-*	80	M 16	150	-	3	-	-	2	18	12	8	12	380
GN 40-80-M16-150-B0-*	80	M 16	150	8.6	3	-	64	-	18	12	8	12	314
GN 40-80-M16-150-A3-*	80	M 16	150	-	3	5	-	-	18	12	8	12	380
GN 40-80-M16-200-A0-*	80	M 16	200	-	3	-	-	-	18	12	8	12	414
GN 40-80-M16-200-A1-*	80	M 16	200	-	3	-	-	2	18	12	8	12	400
GN 40-80-M16-200-B0-*	80	M 16	200	8.6	3	-	64	-	18	12	8	12	374
GN 40-80-M16-200-A3-*	80	M 16	200	-	3	5	-	-	18	12	8	12	440
GN 40-80-M20-75-A0-*	80	M 20	75	-	3	-	-	-	19	15	10	16	347
GN 40-80-M20-75-A1-*	80	M 20	75	-	3	-	-	2	19	15	10	16	360
GN 40-80-M20-75-B0-*	80	M 20	75	8.6	3	-	64	-	19	15	10	16	276
GN 40-80-M20-75-A3-*	80	M 20	75	-	3	5	-	-	19	15	10	16	360
GN 40-80-M20-100-A0-*	80	M 20	100	-	3	-	-	-	19	15	10	16	397
GN 40-80-M20-100-A1-*	80	M 20	100	-	3	-	-	2	19	15	10	16	400

GN 40-U/UK

Description	d1	d2	l1	d3	h1	h6	m	s	h4	A/F 2	A/F 3	Static load in kN	⚖
GN 40-80-M20-100-B0-*	80	M 20	100	8.6	3	-	64	-	19	15	10	16	326
GN 40-80-M20-100-A3-*	80	M 20	100	-	3	5	-	-	19	15	10	16	420
GN 40-80-M20-125-A0-*	80	M 20	125	-	3	-	-	-	19	15	10	16	450
GN 40-80-M20-125-A1-*	80	M 20	125	-	3	-	-	2	19	15	10	16	459
GN 40-80-M20-125-B0-*	80	M 20	125	8.6	3	-	64	-	19	15	10	16	376
GN 40-80-M20-125-A3-*	80	M 20	125	-	3	5	-	-	19	15	10	16	510
GN 40-80-M20-150-A0-*	80	M 20	150	-	3	-	-	-	19	15	10	16	470
GN 40-80-M20-150-A1-*	80	M 20	150	-	3	-	-	2	19	15	10	16	494
GN 40-80-M20-150-B0-*	80	M 20	150	8.6	3	-	64	-	19	15	10	16	425
GN 40-80-M20-150-A3-*	80	M 20	150	-	3	5	-	-	19	15	10	16	520
GN 40-80-M20-200-A0-*	80	M 20	200	-	3	-	-	-	19	15	10	16	595
GN 40-80-M20-200-A1-*	80	M 20	200	-	3	-	-	2	19	15	10	16	600
GN 40-80-M20-200-B0-*	80	M 20	200	8.6	3	-	64	-	19	15	10	16	516
GN 40-80-M20-200-A3-*	80	M 20	200	-	3	5	-	-	19	15	10	16	620
GN 40-80-M24-100-A0-*	80	M 24	100	-	3	-	-	-	21	19	12	16	542
GN 40-80-M24-100-A1-*	80	M 24	100	-	3	-	-	2	21	19	12	16	560
GN 40-80-M24-100-B0-*	80	M 24	100	8.6	3	-	64	-	21	19	12	16	429
GN 40-80-M24-100-A3-*	80	M 24	100	-	3	5	-	-	21	19	12	16	586
GN 40-80-M24-125-A0-*	80	M 24	125	-	3	-	-	-	21	19	12	16	612
GN 40-80-M24-125-A1-*	80	M 24	125	-	3	-	-	2	21	19	12	16	620
GN 40-80-M24-125-B0-*	80	M 24	125	8.6	3	-	64	-	21	19	12	16	501
GN 40-80-M24-125-A3-*	80	M 24	125	-	3	5	-	-	21	19	12	16	600
GN 40-80-M24-150-A0-*	80	M 24	150	-	3	-	-	-	21	19	12	16	685
GN 40-80-M24-150-A1-*	80	M 24	150	-	3	-	-	2	21	19	12	16	660
GN 40-80-M24-150-B0-*	80	M 24	150	8.6	3	-	64	-	21	19	12	16	573
GN 40-80-M24-150-A3-*	80	M 24	150	-	3	5	-	-	21	19	12	16	680
GN 40-80-M24-200-A0-*	80	M 24	200	-	3	-	-	-	21	19	12	16	820
GN 40-80-M24-200-A1-*	80	M 24	200	-	3	-	-	2	21	19	12	16	830
GN 40-80-M24-200-B0-*	80	M 24	200	8.6	3	-	64	-	21	19	12	16	840
GN 40-80-M24-200-A3-*	80	M 24	200	-	3	-5	-	-	21	19	12	16	850

Weight Version U

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Stainless Steel-Levelling feet

without fixing lug

SPECIFICATION

Types (Base plate)

- Type **B0**: without rubber underlay, with 2 fixing bores
- Type **D0**: without rubber underlay
- Type **D1**: rubber clipped on, black
- Type **D3**: rubber vulcanised, black

Version

- Version **S**: without nut, External hexagon at the bottom
- Version **SK**: with nut, External hexagon at the bottom
- Version **T**: without nut, Wrench flat at the bottom, "not dipping" version
- Version **TK**: with nut, Wrench flat at the bottom, "not dipping" version
- Version **U**: without nut, Hexagon socket at the top, Wrench flat at the bottom
- Version **UK**: with nut,Hexagon socket at the top, Wrench flat at the bottom
- Version **V**: without nut, External hexagon at the top, Wrench flat at the bottom
- Version **VK**: with nut, External hexagon at the top, Wrench flat at the bottom
- Version **W**: with adjustable sleeve, Wrench flat at the bottom
- Version **X**: with female thread, External hexagon

Base plate, blank ground
Stainless Steel AISI 304

Threaded stem
Stainless Steel AISI 303

Hexagon nut ISO 4032
Stainless Steel AISI 304

Rubber cap, clipped on
black, Santoprene® (TPE) 80 ≈ Shore A

Rubber underlay, vulcanised
black, Perbunan® (NBR) 70 ± Shore A

INFORMATION

Stainless Steel-Levelling feet GN 41 are easy and very reasonably priced foot design variants.
They will be delivered mounted and are not removable.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Elastomer characteristics (see page A32)

LOAD RATING OF STAINLESS STEEL-LEVELLING FEET

Information

The static load bearing capacity given in the table rests on a test series in which the load has been applied perpendicular to the base plate (without rubber underlay). For the values given in the table, the strain relief may result in minor deformations of the base plate.
Bending and buckling stress which often occurs in practice results in a lower load bearing capacity of the adjustment spindle and may have to be taken into account.
Also, the spindle strength is assumed to be ≥ 500 N/mm^2.
The details given on strength are nonbinding guide values without any liability. In general, they do not constitute a warranty of quality.
The user must determine from case to case if a product is suitable for the intended purpose or use. Environmental factors may influence the stated values.

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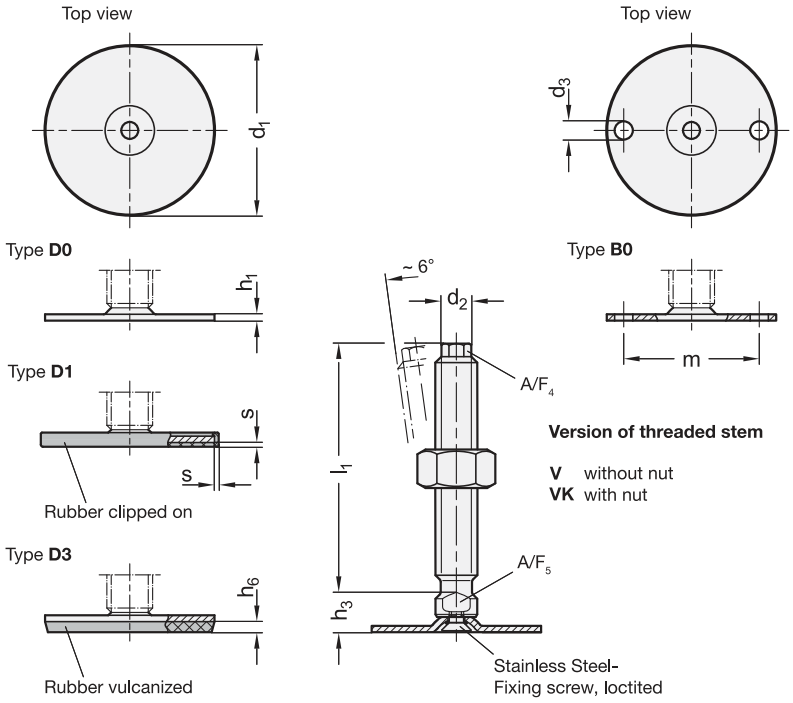

*Complete with version of Levelling feet (External hexagon socket on the top/Wrench flat at the bottom)

V without nut **VK** with nut

GN 41-V/VK **STAINLESS STEEL**

Description	d1	d2	l1	d3	m	h1	h3	h6	s	A/F 4	A/F 5	Static load in kN	⚖
GN 41-60-M16-75-B0-*	60	M 16	75	6.6	48	2.5	14	-	-	10	12	16	76
GN 41-60-M16-75-D0-*	60	M 16	75	-	-	2.5	14	-	-	10	12	16	136
GN 41-60-M16-75-D1-*	60	M 16	75	-	-	2.5	14	-	2	10	12	16	138
GN 41-60-M16-75-D3-*	60	M 16	75	-	-	2.5	14	4.5	-	10	12	16	134
GN 41-60-M16-100-B0-*	60	M 16	100	6.6	48	2.5	14	-	-	10	12	16	187
GN 41-60-M16-100-D0-*	60	M 16	100	-	-	2.5	14	-	-	10	12	16	191
GN 41-60-M16-100-D1-*	60	M 16	100	-	-	2.5	14	-	2	10	12	16	195
GN 41-60-M16-100-D3-*	60	M 16	100	-	-	2.5	14	4.5	-	10	12	16	199
GN 41-60-M16-125-B0-*	60	M 16	125	6.6	48	2.5	14	-	-	10	12	16	219
GN 41-60-M16-125-D0-*	60	M 16	125	-	-	2.5	14	-	-	10	12	16	223
GN 41-60-M16-125-D1-*	60	M 16	125	-	-	2.5	14	-	2	10	12	16	227
GN 41-60-M16-125-D3-*	60	M 16	125	-	-	2.5	14	4.5	-	10	12	16	231
GN 41-60-M16-150-B0-*	60	M 16	150	6.6	48	2.5	14	-	-	10	12	16	252
GN 41-60-M16-150-D0-*	60	M 16	150	-	-	2.5	14	-	-	10	12	16	256
GN 41-60-M16-150-D1-*	60	M 16	150	-	-	2.5	14	-	2	10	12	16	260
GN 41-60-M16-150-D3-*	60	M 16	150	-	-	2.5	14	4.5	-	10	12	16	266
GN 41-80-M16-75-B0-*	80	M 16	75	8.5	48	3	15	-	-	10	12	20	109
GN 41-80-M16-75-D0-*	80	M 16	75	-	-	3	15	-	-	10	12	20	109
GN 41-80-M16-75-D1-*	80	M 16	75	-	-	3	15	-	2	10	12	20	114
GN 41-80-M16-75-D3-*	80	M 16	75	-	-	3	15	5	-	10	12	20	114
GN 41-80-M16-100-B0-*	80	M 16	100	8.5	64	3	15	-	-	10	12	20	150
GN 41-80-M16-100-D0-*	80	M 16	100	-	-	3	15	-	-	10	12	20	190
GN 41-80-M16-100-D1-*	80	M 16	100	-	-	3	15	-	2	10	12	20	265
GN 41-80-M16-100-D3-*	80	M 16	100	-	-	3	15	5	-	10	12	20	275
GN 41-80-M16-125-B0-*	80	M 16	125	8.5	64	3	15	-	-	10	12	20	284
GN 41-80-M16-125-D0-*	80	M 16	125	-	-	3	15	-	-	10	12	20	285
GN 41-80-M16-125-D1-*	80	M 16	125	-	-	3	15	-	2	10	12	20	297
GN 41-80-M16-125-D3-*	80	M 16	125	-	-	3	15	5	-	10	12	20	307
GN 41-80-M16-150-B0-*	80	M 16	150	8.5	64	3	15	-	-	10	12	20	317
GN 41-80-M16-150-D0-*	80	M 16	150	-	-	3	15	-	-	10	12	20	319
GN 41-80-M16-150-D1-*	80	M 16	150	-	-	3	15	-	2	10	12	20	330
GN 41-80-M16-150-D3-*	80	M 16	150	-	-	3	15	5	-	10	12	20	340

GN 41-V/VK **STAINLESS STEEL**

Description	d1	d2	l1	d3	m	h1	h3	h6	s	A/F 4	A/F 5	Static load in kN	⚖
GN 41-80-M20-100-B0-*	80	M 20	100	8.5	64	3	15	-	-	13	16	20	331
GN 41-80-M20-100-D0-*	80	M 20	100	-	-	3	15	-	-	13	16	20	331
GN 41-80-M20-100-D1-*	80	M 20	100	-	-	3	15	-	2	13	16	20	345
GN 41-80-M20-100-D3-*	80	M 20	100	-	-	3	15	5	-	13	16	20	355
GN 41-80-M20-125-B0-*	80	M 20	125	8.5	64	3	15	-	-	13	16	20	382
GN 41-80-M20-125-D0-*	80	M 20	125	-	-	3	15	-	-	13	16	20	382
GN 41-80-M20-125-D1-*	80	M 20	125	-	-	3	15	-	2	13	16	20	396
GN 41-80-M20-125-D3-*	80	M 20	125	-	-	3	15	5	-	13	16	20	406
GN 41-80-M20-150-B0-*	80	M 20	150	8.5	64	3	15	-	-	13	16	20	434
GN 41-80-M20-150-D0-*	80	M 20	150	-	-	3	15	-	-	13	16	20	434
GN 41-80-M20-150-D1-*	80	M 20	150	-	-	3	15	-	2	13	16	20	448
GN 41-80-M20-150-D3-*	80	M 20	150	-	-	3	15	5	-	13	16	20	458
GN 41-80-M20-200-B0-*	80	M 20	200	8.5	64	3	15	-	-	13	16	20	539
GN 41-80-M20-200-D0-*	80	M 20	200	-	-	3	15	-	-	13	16	20	539
GN 41-80-M20-200-D1-*	80	M 20	200	-	-	3	15	-	2	13	16	20	553
GN 41-80-M20-200-D3-*	80	M 20	200	-	-	3	15	5	-	13	16	20	563
GN 41-80-M24-100-B0-*	80	M 24	100	8.5	64	3	18	-	-	17	20	22	434
GN 41-80-M24-100-D0-*	80	M 24	100	-	-	3	18	-	-	17	20	22	436
GN 41-80-M24-100-D1-*	80	M 24	100	-	-	3	18	-	2	17	20	22	447
GN 41-80-M24-100-D3-*	80	M 24	100	-	-	3	18	5	-	17	20	22	460
GN 41-80-M24-150-B0-*	80	M 24	150	8.5	64	3	18	-	-	17	20	22	582
GN 41-80-M24-150-D0-*	80	M 24	150	-	-	3	18	-	-	17	20	22	583
GN 41-80-M24-150-D1-*	80	M 24	150	-	-	3	18	-	2	17	20	22	595
GN 41-80-M24-150-D3-*	80	M 24	150	-	-	3	18	5	-	17	20	22	608
GN 41-80-M24-200-B0-*	80	M 24	200	8.5	64	3	18	-	-	17	20	22	728
GN 41-80-M24-200-D0-*	80	M 24	200	-	-	3	18	-	-	17	20	22	729
GN 41-80-M24-200-D1-*	80	M 24	200	-	-	3	18	-	2	17	20	22	741
GN 41-80-M24-200-D3-*	80	M 24	200	-	-	3	18	5	-	17	20	22	754

Weight Version V

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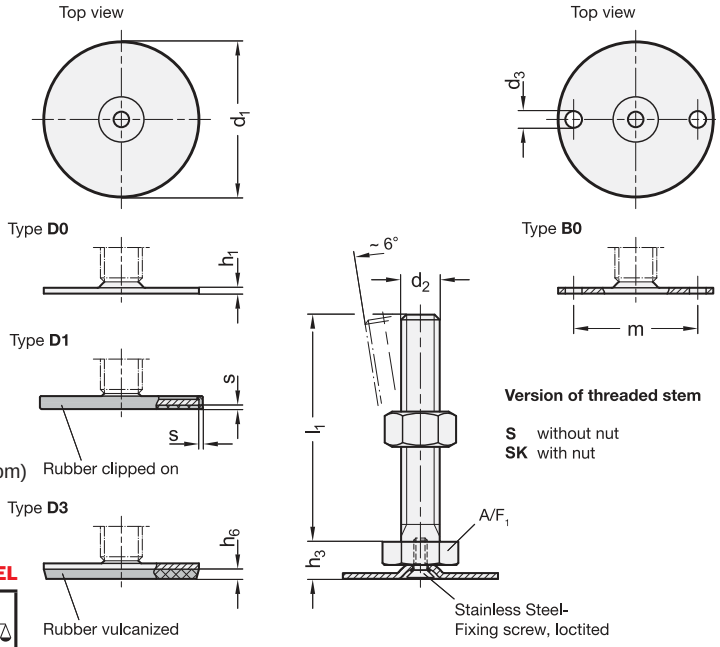

*Complete with version of the Levelling feet (External hexagon at the bottom)

S without nut **SK** with nut

GN 41-S/SK

STAINLESS STEEL

Description	d1	d2	l1	d3	m	h1	h3	h6	s	A/F 1	Static load in kN	
GN 41-40-M8-40-B0-*	40	M 8	40	5.4	30	2	11	-	-	17	8	38
GN 41-40-M8-40-D0-*	40	M 8	40	-	-	2	11	-	-	17	8	48
GN 41-40-M8-40-D1-*	40	M 8	40	-	-	2	11	-	1.5	17	8	50
GN 41-40-M8-40-D3-*	40	M 8	40	-	-	2	11	3.5	-	17	8	50
GN 41-40-M8-50-B0-*	40	M 8	50	5.4	30	2	11	-	-	17	8	50
GN 41-40-M8-50-D0-*	40	M 8	50	-	-	2	11	-	-	17	8	50
GN 41-40-M8-50-D1-*	40	M 8	50	-	-	2	11	-	1.5	17	8	53
GN 41-40-M8-50-D3-*	40	M 8	50	-	-	2	11	3.5	-	17	8	55
GN 41-40-M8-63-B0-*	40	M 8	63	5.4	30	2	11	-	-	17	8	55
GN 41-40-M8-63-D0-*	40	M 8	63	-	-	2	11	-	-	17	8	55
GN 41-40-M8-63-D1-*	40	M 8	63	-	-	2	11	-	1.5	17	8	60
GN 41-40-M8-63-D3-*	40	M 8	63	-	-	2	11	3.5	-	17	8	60
GN 41-40-M10-50-B0-*	40	M 10	50	5.4	30	2	11	-	-	17	12	64
GN 41-40-M10-50-D0-*	40	M 10	50	-	-	2	11	-	-	17	12	65
GN 41-40-M10-50-D1-*	40	M 10	50	-	-	2	11	-	1.5	17	12	60
GN 41-40-M10-50-D3-*	40	M 10	50	-	-	2	11	3.5	-	17	12	60
GN 41-40-M10-60-B0-*	40	M 10	60	5.4	30	2	11	-	-	17	12	68
GN 41-40-M10-60-D0-*	40	M 10	60	-	-	2	11	-	-	17	12	68
GN 41-40-M10-60-D1-*	40	M 10	60	-	-	2	11	-	1.5	17	12	75
GN 41-40-M10-60-D3-*	40	M 10	60	-	-	2	11	3.5	-	17	12	80
GN 41-40-M10-80-B0-*	40	M 10	80	5.4	30	2	11	-	-	17	12	80
GN 41-40-M10-80-D0-*	40	M 10	80	-	-	2	11	-	-	17	12	81
GN 41-40-M10-80-D1-*	40	M 10	80	-	-	2	11	-	1.5	17	12	82
GN 41-40-M10-80-D3-*	40	M 10	80	-	-	2	11	3.5	-	17	12	84
GN 41-40-M10-100-B0-*	40	M 10	100	5.4	30	2	11	-	-	17	12	90
GN 41-40-M10-100-D0-*	40	M 10	100	-	-	2	11	-	-	17	12	91
GN 41-40-M10-100-D1-*	40	M 10	100	-	-	2	11	-	1.5	17	12	92
GN 41-40-M10-100-D3-*	40	M 10	100	-	-	2	11	3.5	-	17	12	94
GN 41-40-M12-60-B0-*	40	M 12	60	5.4	30	2	11	-	-	17	12	90
GN 41-40-M12-60-D0-*	40	M 12	60	-	-	2	11	-	-	17	12	96
GN 41-40-M12-60-D1-*	40	M 12	60	-	-	2	11	-	1.5	17	12	100
GN 41-40-M12-60-D3-*	40	M 12	60	-	-	2	11	3.5	-	17	12	102
GN 41-40-M12-80-B0-*	40	M 12	80	5.4	30	2	11	-	-	17	12	102
GN 41-40-M12-80-D0-*	40	M 12	80	-	-	2	11	-	-	17	12	102
GN 41-40-M12-80-D1-*	40	M 12	80	-	-	2	11	-	1.5	17	12	103
GN 41-40-M12-80-D3-*	40	M 12	80	-	-	2	11	3.5	-	17	12	104
GN 41-40-M12-100-B0-*	40	M 12	100	5.4	30	2	11	-	-	17	12	118
GN 41-40-M12-100-D0-*	40	M 12	100	-	-	2	11	-	-	17	12	126
GN 41-40-M12-100-D1-*	40	M 12	100	-	-	2	11	-	1.5	17	12	120
GN 41-40-M12-100-D3-*	40	M 12	100	-	-	2	11	3.5	-	17	12	122
GN 41-40-M12-125-B0-*	40	M 12	125	5.4	30	2	11	-	-	17	12	135

GN 41-S/SK

STAINLESS STEEL

Description	d1	d2	l1	d3	m	h1	h3	h6	s	A/F 1	Static load in kN	
GN 41-40-M12-125-D0-*	40	M 12	125	-	-	2	11	-	-	17	12	136
GN 41-40-M12-125-D1-*	40	M 12	125	-	-	2	11	-	1.5	17	12	139
GN 41-40-M12-125-D3-*	40	M 12	125	-	-	2	11	3.5	-	17	12	140
GN 41-50-M8-40-B0-*	50	M 8	40	6.6	38	2.5	11	-	-	17	8	60
GN 41-50-M8-40-D0-*	50	M 8	40	-	-	2.5	11	-	-	17	8	60
GN 41-50-M8-40-D1-*	50	M 8	40	-	-	2.5	11	-	2	17	8	74
GN 41-50-M8-40-D3-*	50	M 8	40	-	-	2.5	11	4	-	17	8	80
GN 41-50-M8-50-B0-*	50	M 8	50	6.6	38	2.5	11	-	-	17	8	60
GN 41-50-M8-50-D0-*	50	M 8	50	-	-	2.5	11	-	-	17	8	60
GN 41-50-M8-50-D1-*	50	M 8	50	-	-	2.5	11	-	2	17	8	80
GN 41-50-M8-50-D3-*	50	M 8	50	-	-	2.5	11	4	-	17	8	80
GN 41-50-M8-63-B0-*	50	M 8	63	6.6	38	2.5	11	-	-	17	8	65
GN 41-50-M8-63-D0-*	50	M 8	63	-	-	2.5	11	-	-	17	8	73
GN 41-50-M8-63-D1-*	50	M 8	63	-	-	2.5	11	-	2	17	8	79
GN 41-50-M8-63-D3-*	50	M 8	63	-	-	2.5	11	4	-	17	8	82
GN 41-50-M10-50-B0-*	50	M 10	50	6.6	38	2.5	11	-	-	17	14	80
GN 41-50-M10-50-D0-*	50	M 10	50	-	-	2.5	11	-	-	17	14	82
GN 41-50-M10-50-D1-*	50	M 10	50	-	-	2.5	11	-	2	17	14	90
GN 41-50-M10-50-D3-*	50	M 10	50	-	-	2.5	11	4	-	17	14	90
GN 41-50-M10-60-B0-*	50	M 10	60	6.6	38	2.5	11	-	-	17	14	90
GN 41-50-M10-60-D0-*	50	M 10	60	-	-	2.5	11	-	-	17	14	94
GN 41-50-M10-60-D1-*	50	M 10	60	-	-	2.5	11	-	2	17	14	98
GN 41-50-M10-60-D3-*	50	M 10	60	-	-	2.5	11	4	-	17	14	100
GN 41-50-M10-80-B0-*	50	M 10	80	6.6	38	2.5	11	-	-	17	14	100
GN 41-50-M10-80-D0-*	50	M 10	80	-	-	2.5	11	-	-	17	14	100
GN 41-50-M10-80-D1-*	50	M 10	80	-	-	2.5	11	-	2	17	14	104
GN 41-50-M10-80-D3-*	50	M 10	80	-	-	2.5	11	4	-	17	14	109
GN 41-50-M10-100-B0-*	50	M 10	100	6.6	38	2.5	11	-	-	17	14	110
GN 41-50-M10-100-D0-*	50	M 10	100	-	-	2.5	11	-	-	17	14	110
GN 41-50-M10-100-D1-*	50	M 10	100	-	-	2.5	11	-	2	17	14	120
GN 41-50-M10-100-D3-*	50	M 10	100	-	-	2.5	11	4	-	17	14	120
GN 41-50-M12-60-B0-*	50	M 12	60	6.6	38	2.5	11	-	-	17	14	108
GN 41-50-M12-60-D0-*	50	M 12	60	-	-	2.5	11	-	-	17	14	109
GN 41-50-M12-60-D1-*	50	M 12	60	-	-	2.5	11	-	2	17	14	110
GN 41-50-M12-60-D3-*	50	M 12	60	-	-	2.5	11	4	-	17	14	117

Weight Version S

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*Complete with version of the Levelling feet (External hexagon at the bottom)

S
without nut

SK
with nut

GN 41-S/SK

STAINLESS STEEL

Description	d1	d2	l1	d3	m	h1	h3	h6	s	A/F 1	Static load in kN	⚖
GN 41-50-M12-80-B0-*	50	M 12	80	6.6	38	2.5	11	-	-	17	14	120
GN 41-50-M12-80-D0-*	50	M 12	80	-	-	2.5	11	-	-	17	14	120
GN 41-50-M12-80-D1-*	50	M 12	80	-	-	2.5	11	-	2	17	14	129
GN 41-50-M12-80-D3-*	50	M 12	80	-	-	2.5	11	4	-	17	14	120
GN 41-50-M12-100-B0-*	50	M 12	100	6.6	38	2.5	11	-	-	17	14	137
GN 41-50-M12-100-D0-*	50	M 12	100	-	-	2.5	11	-	-	17	14	137
GN 41-50-M12-100-D1-*	50	M 12	100	-	-	2.5	11	-	2	17	14	145
GN 41-50-M12-100-D3-*	50	M 12	100	-	-	2.5	11	4	-	17	14	145
GN 41-50-M12-125-B0-*	50	M 12	125	6.6	38	2.5	11	-	-	17	14	154
GN 41-50-M12-125-D0-*	50	M 12	125	-	-	2.5	11	-	-	17	14	155
GN 41-50-M12-125-D1-*	50	M 12	125	-	-	2.5	11	-	2	17	14	160
GN 41-50-M12-125-D3-*	50	M 12	125	-	-	2.5	11	4	-	17	14	165
GN 41-60-M8-40-B0-*	60	M 8	40	6.6	48	2.5	11	-	-	17	8	74
GN 41-60-M8-40-D0-*	60	M 8	40	-	-	2.5	11	-	-	17	8	80
GN 41-60-M8-40-D1-*	60	M 8	40	-	-	2.5	11	-	2	17	8	88
GN 41-60-M8-40-D3-*	60	M 8	40	-	-	2.5	11	4.5	-	17	8	100
GN 41-60-M8-50-B0-*	60	M 8	50	6.6	48	2.5	11	-	-	17	8	78
GN 41-60-M8-50-D0-*	60	M 8	50	-	-	2.5	11	-	-	17	8	80
GN 41-60-M8-50-D1-*	60	M 8	50	-	-	2.5	11	-	2	17	8	90
GN 41-60-M8-50-D3-*	60	M 8	50	-	-	2.5	11	4.5	-	17	8	100
GN 41-60-M8-63-B0-*	60	M 8	63	6.6	48	2.5	11	-	-	17	8	82
GN 41-60-M8-63-D0-*	60	M 8	63	-	-	2.5	11	-	-	17	8	100
GN 41-60-M8-63-D1-*	60	M 8	63	-	-	2.5	11	-	2	17	8	100
GN 41-60-M8-63-D3-*	60	M 8	63	-	-	2.5	11	4.5	-	17	8	100
GN 41-60-M10-50-B0-*	60	M 10	50	6.6	48	2.5	11	-	-	17	14	107
GN 41-60-M10-50-D0-*	60	M 10	50	-	-	2.5	11	-	-	17	14	110
GN 41-60-M10-50-D1-*	60	M 10	50	-	-	2.5	11	-	2	17	14	110
GN 41-60-M10-50-D3-*	60	M 10	50	-	-	2.5	11	4.5	-	17	14	114
GN 41-60-M10-60-B0-*	60	M 10	60	6.6	48	2.5	11	-	-	17	14	111
GN 41-60-M10-60-D0-*	60	M 10	60	-	-	2.5	11	-	-	17	14	107
GN 41-60-M10-60-D1-*	60	M 10	60	-	-	2.5	11	-	2	17	14	120
GN 41-60-M10-60-D3-*	60	M 10	60	-	-	2.5	11	4.5	-	17	14	119
GN 41-60-M10-80-B0-*	60	M 10	80	6.6	48	2.5	11	-	-	17	14	121
GN 41-60-M10-80-D0-*	60	M 10	80	-	-	2.5	11	-	-	17	14	118
GN 41-60-M10-80-D1-*	60	M 10	80	-	-	2.5	11	-	2	17	14	120
GN 41-60-M10-80-D3-*	60	M 10	80	-	-	2.5	11	4.5	-	17	14	140
GN 41-60-M10-100-B0-*	60	M 10	100	6.6	48	2.5	11	-	-	17	14	120
GN 41-60-M10-100-D0-*	60	M 10	100	-	-	2.5	11	-	-	17	14	128
GN 41-60-M10-100-D1-*	60	M 10	100	-	-	2.5	11	-	2	17	14	138
GN 41-60-M10-100-D3-*	60	M 10	100	-	-	2.5	11	4.5	-	17	14	140
GN 41-60-M12-60-B0-*	60	M 12	60	6.6	48	2.5	11	-	-	17	16	125
GN 41-60-M12-60-D0-*	60	M 12	60	-	-	2.5	11	-	-	17	16	126
GN 41-60-M12-60-D1-*	60	M 12	60	-	-	2.5	11	-	2	17	16	133
GN 41-60-M12-60-D3-*	60	M 12	60	-	-	2.5	11	4.5	-	17	16	139
GN 41-60-M12-80-B0-*	60	M 12	80	6.6	48	2.5	11	-	-	17	16	139
GN 41-60-M12-80-D0-*	60	M 12	80	-	-	2.5	11	-	-	17	16	140
GN 41-60-M12-80-D1-*	60	M 12	80	-	-	2.5	11	-	2	17	16	148
GN 41-60-M12-80-D3-*	60	M 12	80	-	-	2.5	11	4.5	-	17	16	131
GN 41-60-M12-100-B0-*	60	M 12	100	6.6	48	2.5	11	-	-	17	16	150
GN 41-60-M12-100-D0-*	60	M 12	100	-	-	2.5	11	-	-	17	16	153
GN 41-60-M12-100-D1-*	60	M 12	100	-	-	2.5	11	-	2	17	16	155
GN 41-60-M12-100-D3-*	60	M 12	100	-	-	2.5	11	4.5	-	17	16	160
GN 41-60-M12-125-B0-*	60	M 12	125	6.6	48	2.5	11	-	-	17	16	171
GN 41-60-M12-125-D0-*	60	M 12	125	-	-	2.5	11	-	-	17	16	172
GN 41-60-M12-125-D1-*	60	M 12	125	-	-	2.5	11	-	2	17	16	180
GN 41-60-M12-125-D3-*	60	M 12	125	-	-	2.5	11	4.5	-	17	16	186

GN 41-S/SK

STAINLESS STEEL

Description	d1	d2	l1	d3	m	h1	h3	h6	s	A/F 1	Static load in kN	⚖
GN 41-80-M8-40-B0-*	80	M 8	40	8.5	64	3	12	-	-	17	8	138
GN 41-80-M8-40-D0-*	80	M 8	40	-	-	3	12	-	-	17	8	142
GN 41-80-M8-40-D1-*	80	M 8	40	-	-	3	12	-	2	17	8	160
GN 41-80-M8-40-D3-*	80	M 8	40	-	-	3	12	5	-	17	8	180
GN 41-80-M8-50-B0-*	80	M 8	50	8.5	64	3	12	-	-	17	8	150
GN 41-80-M8-50-D0-*	80	M 8	50	-	-	3	12	-	-	17	8	160
GN 41-80-M8-50-D1-*	80	M 8	50	-	-	3	12	-	2	17	8	160
GN 41-80-M8-50-D3-*	80	M 8	50	-	-	3	12	5	-	17	8	150
GN 41-80-M8-63-B0-*	80	M 8	63	8.5	64	3	12	-	-	17	8	146
GN 41-80-M8-63-D0-*	80	M 8	63	-	-	3	12	-	-	17	8	149
GN 41-80-M8-63-D1-*	80	M 8	63	-	-	3	12	-	2	17	8	159
GN 41-80-M8-63-D3-*	80	M 8	63	-	-	3	12	5	-	17	8	180
GN 41-80-M10-50-B0-*	80	M 10	50	8.5	64	3	12	-	-	17	14	151
GN 41-80-M10-50-D0-*	80	M 10	50	-	-	3	12	-	-	17	14	157
GN 41-80-M10-50-D1-*	80	M 10	50	-	-	3	12	-	2	17	14	180
GN 41-80-M10-50-D3-*	80	M 10	50	-	-	3	12	5	-	17	14	180
GN 41-80-M10-60-B0-*	80	M 10	60	8.5	64	3	12	-	-	17	14	175
GN 41-80-M10-60-D0-*	80	M 10	60	-	-	3	12	-	-	17	14	175
GN 41-80-M10-60-D1-*	80	M 10	60	-	-	3	12	-	2	17	14	174
GN 41-80-M10-60-D3-*	80	M 10	60	-	-	3	12	5	-	17	14	196
GN 41-80-M10-80-B0-*	80	M 10	80	8.5	64	3	12	-	-	17	14	185
GN 41-80-M10-80-D0-*	80	M 10	80	-	-	3	12	-	-	17	14	185
GN 41-80-M10-80-D1-*	80	M 10	80	-	-	3	12	-	2	17	14	198
GN 41-80-M10-80-D3-*	80	M 10	80	-	-	3	12	5	-	17	14	211
GN 41-80-M10-100-B0-*	80	M 10	100	8.5	64	3	12	-	-	17	14	196
GN 41-80-M10-100-D0-*	80	M 10	100	-	-	3	12	-	-	17	14	186
GN 41-80-M10-100-D1-*	80	M 10	100	-	-	3	12	-	2	17	14	210
GN 41-80-M10-100-D3-*	80	M 10	100	-	-	3	12	5	-	17	14	216
GN 41-80-M12-60-B0-*	80	M 12	60	8.5	64	3	12	-	-	17	20	150
GN 41-80-M12-60-D0-*	80	M 12	60	-	-	3	12	-	-	17	20	196
GN 41-80-M12-60-D1-*	80	M 12	60	-	-	3	12	-	2	17	20	200
GN 41-80-M12-60-D3-*	80	M 12	60	-	-	3	12	5	-	17	20	214
GN 41-80-M12-80-B0-*	80	M 12	80	8.5	64	3	12	-	-	17	20	203
GN 41-80-M12-80-D0-*	80	M 12	80	-	-	3	12	-	-	17	20	204
GN 41-80-M12-80-D1-*	80	M 12	80	-	-	3	12	-	2	17	20	218
GN 41-80-M12-80-D3-*	80	M 12	80	-	-	3	12	5	-	17	20	220
GN 41-80-M12-100-B0-*	80	M 12	100	8.5	64	3	12	-	-	17	20	218
GN 41-80-M12-100-D0-*	80	M 12	100	-	-	3	12	-	-	17	20	214
GN 41-80-M12-100-D1-*	80	M 12	100	-	-	3	12	-	2	17	20	228
GN 41-80-M12-100-D3-*	80	M 12	100	-	-	3	12	5	-	17	20	245
GN 41-80-M12-125-B0-*	80	M 12	125	8.5	64	3	12	-	-	17	20	235
GN 41-80-M12-125-D0-*	80	M 12	125	-	-	3	12	-	-	17	20	237
GN 41-80-M12-125-D1-*	80	M 12	125	-	-	3	12	-	2	17	20	240
GN 41-80-M12-125-D3-*	80	M 12	125	-	-	3	12	5	-	17	20	250

Weight Version S

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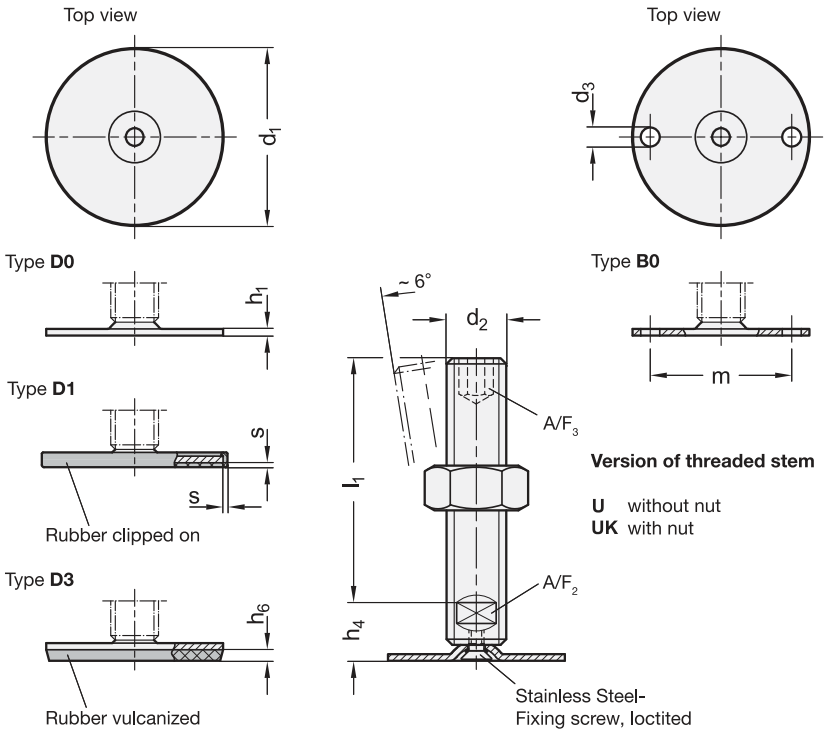

*Complete with version of the Levelling feet (Hexagon socket at the top / Wrench at the bottom)

U without nut

UK with nut

GN 41-U/UK

STAINLESS STEEL

Description	d1	d2	l1	d3	m	h1	h4	h6	s	A/F2	A/F3	Static load in kN	⚖
GN 41-40-M16-75-D0-*	40	M 16	75	-	-	2	17	-	-	12	8	12	153
GN 41-40-M16-75-D1-*	40	M 16	75	-	-	2	17	-	1.5	12	8	12	157
GN 41-40-M16-75-D3-*	40	M 16	75	-	-	2	17	3.5	-	12	8	12	158
GN 41-40-M16-100-D0-*	40	M 16	100	-	-	2	17	-	-	12	8	12	180
GN 41-40-M16-100-D1-*	40	M 16	100	-	-	2	17	-	1.5	12	8	12	202
GN 41-40-M16-100-D3-*	40	M 16	100	-	-	2	17	3.5	-	12	8	12	191
GN 41-40-M16-125-D0-*	40	M 16	125	-	-	2	17	-	-	12	8	12	189
GN 41-40-M16-125-D1-*	40	M 16	125	-	-	2	17	-	1.5	12	8	12	220
GN 41-40-M16-125-D3-*	40	M 16	125	-	-	2	17	3.5	-	12	8	12	256
GN 41-40-M16-150-D0-*	40	M 16	150	-	-	2	17	-	-	12	8	12	220
GN 41-40-M16-150-D1-*	40	M 16	150	-	-	2	17	-	1.5	12	8	12	266
GN 41-40-M16-150-D3-*	40	M 16	150	-	-	2	17	3.5	-	12	8	12	256
GN 41-40-M16-200-D0-*	40	M 16	200	-	-	2	17	-	-	12	8	12	322
GN 41-40-M16-200-D1-*	40	M 16	200	-	-	2	17	-	1.5	12	8	12	334
GN 41-40-M16-200-D3-*	40	M 16	200	-	-	2	17	3.5	-	12	8	12	336
GN 41-50-M16-75-B0-*	50	M 16	75	6.6	38	2.5	17	-	-	12	8	14	141
GN 41-50-M16-75-D0-*	50	M 16	75	-	-	2.5	17	-	-	12	8	14	174
GN 41-50-M16-75-D1-*	50	M 16	75	-	-	2.5	17	-	2	12	8	14	181
GN 41-50-M16-75-D3-*	50	M 16	75	-	-	2.5	17	4	-	12	8	14	184
GN 41-50-M16-100-B0-*	50	M 16	100	6.6	38	2.5	17	-	-	12	8	14	173
GN 41-50-M16-100-D0-*	50	M 16	100	-	-	2.5	17	-	-	12	8	14	209
GN 41-50-M16-100-D1-*	50	M 16	100	-	-	2.5	17	-	2	12	8	14	215
GN 41-50-M16-100-D3-*	50	M 16	100	-	-	2.5	17	4	-	12	8	14	277

GN 41-U/UK

STAINLESS STEEL

Description	d1	d2	l1	d3	m	h1	h4	h6	s	A/F2	A/F3	Static load in kN	⚖
GN 41-50-M16-125-D0-*	50	M 16	125	-	-	2.5	17	-	-	12	8	14	240
GN 41-50-M16-125-D1-*	50	M 16	125	-	-	2.5	17	-	2	12	8	14	248
GN 41-50-M16-125-D3-*	50	M 16	125	-	-	2.5	17	4	-	12	8	14	250
GN 41-50-M16-150-B0-*	50	M 16	150	6.6	38	2.5	17	-	-	12	8	14	238
GN 41-50-M16-150-D0-*	50	M 16	150	-	-	2.5	17	-	-	12	8	14	276
GN 41-50-M16-150-D1-*	50	M 16	150	-	-	2.5	17	-	2	12	8	14	280
GN 41-50-M16-150-D3-*	50	M 16	150	-	-	2.5	17	4	-	12	8	14	282
GN 41-50-M16-200-B0-*	50	M 16	200	6.6	38	2.5	17	-	-	12	8	14	304
GN 41-50-M16-200-D0-*	50	M 16	200	-	-	2.5	17	-	-	12	8	14	350
GN 41-50-M16-200-D1-*	50	M 16	200	-	-	2.5	17	-	2	12	8	14	345
GN 41-50-M16-200-D3-*	50	M 16	200	-	-	2.5	17	4	-	12	8	14	340
GN 41-60-M16-75-B0-*	60	M 16	75	6.6	48	2.5	17	-	-	12	8	16	157
GN 41-60-M16-75-D0-*	60	M 16	75	-	-	2.5	17	-	-	12	8	16	192
GN 41-60-M16-75-D1-*	60	M 16	75	-	-	2.5	17	-	2	12	8	16	200
GN 41-60-M16-75-D3-*	60	M 16	75	-	-	2.5	17	4.5	-	12	8	16	202
GN 41-60-M16-100-B0-*	60	M 16	100	6.6	48	2.5	17	-	-	12	8	16	189
GN 41-60-M16-100-D0-*	60	M 16	100	-	-	2.5	17	-	-	12	8	16	222
GN 41-60-M16-100-D1-*	60	M 16	100	-	-	2.5	17	-	2	12	8	16	232
GN 41-60-M16-100-D3-*	60	M 16	100	-	-	2.5	17	4.5	-	12	8	16	238
GN 41-60-M16-125-B0-*	60	M 16	125	6.6	48	2.5	17	-	-	12	8	16	222
GN 41-60-M16-125-D0-*	60	M 16	125	-	-	2.5	17	-	-	12	8	16	259
GN 41-60-M16-125-D1-*	60	M 16	125	-	-	2.5	17	-	2	12	8	16	260
GN 41-60-M16-125-D3-*	60	M 16	125	-	-	2.5	17	4.5	-	12	8	16	272

Weight Version U

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*Complete with version of the Levelling feet (Hexagon socket at the top / Wrench at the bottom)

U
without nut

UK
with nut

GN 41-U/UK

STAINLESS STEEL

Description	d1	d2	l1	d3	m	h1	h4	h6	s	A/F2	A/F3	Static load in kN	⚖
GN 41-60-M16-150-D3-*	60	M 16	150	-	-	2.5	17	4.5	-	12	8	16	305
GN 41-60-M16-200-B0-*	60	M 16	200	6.6	48	2.5	17	-	-	12	8	16	354
GN 41-60-M16-200-D0-*	60	M 16	200	-	-	2.5	17	-	-	12	8	16	358
GN 41-60-M16-200-D1-*	60	M 16	200	-	-	2.5	17	-	2	12	8	16	350
GN 41-60-M16-200-D3-*	60	M 16	200	-	-	2.5	17	4.5	-	12	8	16	360
GN 41-80-M16-75-B0-*	80	M 16	75	8.5	64	3	18	-	-	12	8	20	222
GN 41-80-M16-75-D0-*	80	M 16	75	-	-	3	18	-	-	12	8	20	226
GN 41-80-M16-75-D1-*	80	M 16	75	-	-	3	18	-	2	12	8	20	260
GN 41-80-M16-75-D3-*	80	M 16	75	-	-	3	18	5	-	12	8	20	281
GN 41-80-M16-100-B0-*	80	M 16	100	8.5	64	3	18	-	-	12	8	20	254
GN 41-80-M16-100-D0-*	80	M 16	100	-	-	3	18	-	-	12	8	20	255
GN 41-80-M16-100-D1-*	80	M 16	100	-	-	3	18	-	2	12	8	20	300
GN 41-80-M16-100-D3-*	80	M 16	100	-	-	3	18	5	-	12	8	20	320
GN 41-80-M16-125-B0-*	80	M 16	125	8.5	64	3	18	-	-	12	8	20	287
GN 41-80-M16-125-D0-*	80	M 16	125	-	-	3	18	-	-	12	8	20	320
GN 41-80-M16-125-D1-*	80	M 16	125	-	-	3	18	-	2	12	8	20	340
GN 41-80-M16-125-D3-*	80	M 16	125	-	-	3	18	5	-	12	8	20	351
GN 41-80-M16-150-B0-*	80	M 16	150	8.5	64	3	18	-	-	12	8	20	319
GN 41-80-M16-150-D0-*	80	M 16	150	-	-	3	18	-	-	12	8	20	350
GN 41-80-M16-150-D1-*	80	M 16	150	-	-	3	18	-	2	12	8	20	360
GN 41-80-M16-150-D3-*	80	M 16	150	-	-	3	18	5	-	12	8	20	388
GN 41-80-M16-200-B0-*	80	M 16	200	8.5	64	3	18	-	-	12	8	20	385
GN 41-80-M16-200-D0-*	80	M 16	200	-	-	3	18	-	-	12	8	20	420
GN 41-80-M16-200-D1-*	80	M 16	200	-	-	3	18	-	2	12	8	20	440
GN 41-80-M16-200-D3-*	80	M 16	200	-	-	3	18	5	-	12	8	20	460
GN 41-80-M20-75-B0-*	80	M 20	75	8.5	64	3	19	-	-	15	10	20	281
GN 41-80-M20-75-D0-*	80	M 20	75	-	-	3	19	-	-	15	10	20	336
GN 41-80-M20-75-D1-*	80	M 20	75	-	-	3	19	-	2	15	10	20	370
GN 41-80-M20-75-D3-*	80	M 20	75	-	-	3	19	5	-	15	10	20	380
GN 41-80-M20-100-B0-*	80	M 20	100	8.5	64	3	19	-	-	15	10	20	350
GN 41-80-M20-100-D0-*	80	M 20	100	-	-	3	19	-	-	15	10	20	390
GN 41-80-M20-100-D1-*	80	M 20	100	-	-	3	19	-	2	15	10	20	400
GN 41-80-M20-100-D3-*	80	M 20	100	-	-	3	19	5	-	15	10	20	436
GN 41-80-M20-125-B0-*	80	M 20	125	8.5	64	3	19	-	-	15	10	20	382

GN 41-U/UK

STAINLESS STEEL

Description	d1	d2	l1	d3	m	h1	h4	h6	s	A/F2	A/F3	Static load in kN	⚖
GN 41-80-M20-125-D1-*	80	M 20	125	-	-	3	19	-	2	15	10	20	460
GN 41-80-M20-125-D3-*	80	M 20	125	-	-	3	19	5	-	15	10	20	466
GN 41-80-M20-150-B0-*	80	M 20	150	8.5	64	3	19	-	-	15	10	20	202
GN 41-80-M20-150-D0-*	80	M 20	150	-	-	3	19	-	-	15	10	20	487
GN 41-80-M20-150-D1-*	80	M 20	150	-	-	3	19	-	2	15	10	20	500
GN 41-80-M20-150-D3-*	80	M 20	150	-	-	3	19	5	-	15	10	20	527
GN 41-80-M20-200-B0-*	80	M 20	200	8.5	64	3	19	-	-	15	10	20	500
GN 41-80-M20-200-D0-*	80	M 20	200	-	-	3	19	-	-	15	10	20	535
GN 41-80-M20-200-D1-*	80	M 20	200	-	-	3	19	-	2	15	10	20	586
GN 41-80-M20-200-D3-*	80	M 20	200	-	-	3	19	5	-	15	10	20	586
GN 41-80-M24-100-B0-*	80	M 24	100	8.5	64	3	22	-	-	19	12	22	511
GN 41-80-M24-100-D0-*	80	M 24	100	-	-	3	22	-	-	19	12	22	529
GN 41-80-M24-100-D1-*	80	M 24	100	-	-	3	22	-	2	19	12	22	540
GN 41-80-M24-100-D3-*	80	M 24	100	-	-	3	22	5	-	19	12	22	560
GN 41-80-M24-125-B0-*	80	M 24	125	8.5	64	3	22	-	-	19	12	22	503
GN 41-80-M24-125-D0-*	80	M 24	125	-	-	3	22	-	-	19	12	22	606
GN 41-80-M24-125-D1-*	80	M 24	125	-	-	3	22	-	2	19	12	22	610
GN 41-80-M24-125-D3-*	80	M 24	125	-	-	3	22	5	-	19	12	22	638
GN 41-80-M24-150-B0-*	80	M 24	150	8.5	64	3	22	-	-	19	12	22	584
GN 41-80-M24-150-D0-*	80	M 24	150	-	-	3	22	-	-	19	12	22	685
GN 41-80-M24-150-D1-*	80	M 24	150	-	-	3	22	-	2	19	12	22	700
GN 41-80-M24-150-D3-*	80	M 24	150	-	-	3	22	5	-	19	12	22	710
GN 41-80-M24-200-B0-*	80	M 24	200	8.5	64	3	22	-	-	19	12	22	720
GN 41-80-M24-200-D0-*	80	M 24	200	-	-	3	22	-	-	19	12	22	820
GN 41-80-M24-200-D1-*	80	M 24	200	-	-	3	22	-	2	19	12	22	840
GN 41-80-M24-200-D3-*	80	M 24	200	-	-	3	22	5	-	19	12	22	860

Weight Version U

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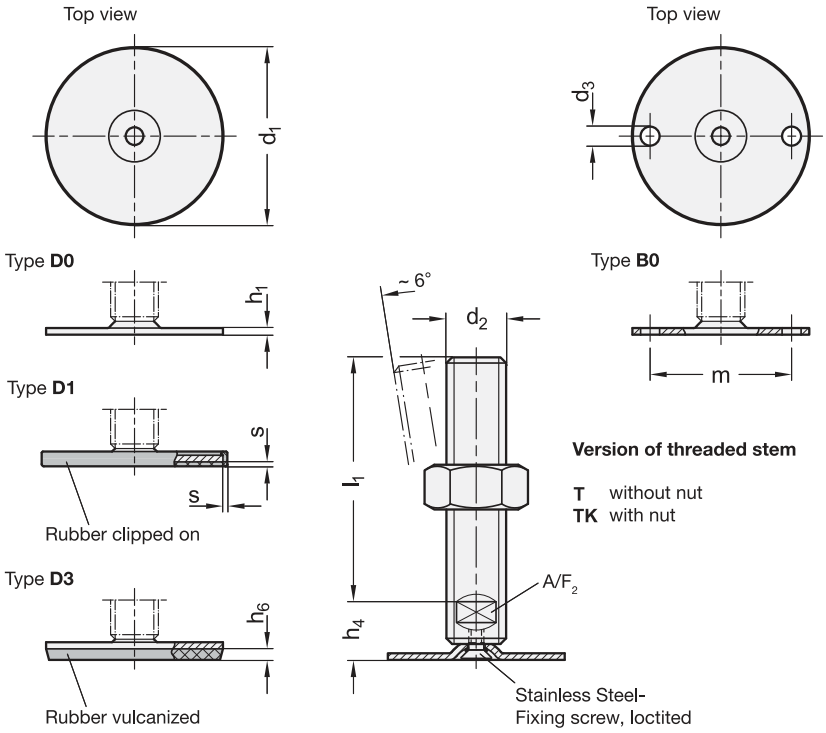

*Complete with version of the Levelling feet (Wrench flat at the bottom)

T without nut

TK with nut

GN 41-T/TK — **STAINLESS STEEL**

Description	d1	d2	l1	d3	m	h1	h4	h6	s	A/F 2	Static load in kN	⚖
GN 41-40-M16-75-D0-*	40	M 16	75	-	-	2	17	-	-	12	12	129
GN 41-40-M16-75-D1-*	40	M 16	75	-	-	2	17	-	1.5	12	12	132
GN 41-40-M16-75-D3-*	40	M 16	75	-	-	2	17	3.5	-	12	12	150
GN 41-40-M16-100-D0-*	40	M 16	100	-	-	2	17	-	-	12	12	171
GN 41-40-M16-100-D1-*	40	M 16	100	-	-	2	17	-	1.5	12	12	200
GN 41-40-M16-100-D3-*	40	M 16	100	-	-	2	17	3.5	-	12	12	174
GN 41-40-M16-125-D0-*	40	M 16	125	-	-	2	17	-	-	12	12	194
GN 41-40-M16-125-D1-*	40	M 16	125	-	-	2	17	-	1.5	12	12	197
GN 41-40-M16-125-D3-*	40	M 16	125	-	-	2	17	3.5	-	12	12	220
GN 41-40-M16-150-D0-*	40	M 16	150	-	-	2	17	-	-	12	12	226
GN 41-40-M16-150-D1-*	40	M 16	150	-	-	2	17	-	1.5	12	12	229
GN 41-40-M16-150-D3-*	40	M 16	150	-	-	2	17	3.5	-	12	12	238
GN 41-40-M16-200-D0-*	40	M 16	200	-	-	2	17	-	-	12	12	569
GN 41-40-M16-200-D1-*	40	M 16	200	-	-	2	17	-	1.5	12	12	572
GN 41-40-M16-200-D3-*	40	M 16	200	-	-	2	17	3.5	-	12	12	581
GN 41-50-M16-75-B0-*	50	M 16	75	6.6	38	2.5	17	-	-	12	14	146
GN 41-50-M16-75-D0-*	50	M 16	75	-	-	2.5	17	-	-	12	14	149
GN 41-50-M16-75-D1-*	50	M 16	75	-	-	2.5	17	-	2	12	14	155
GN 41-50-M16-75-D3-*	50	M 16	75	-	-	2.5	17	4	-	12	14	150
GN 41-50-M16-100-B0-*	50	M 16	100	6.6	38	2.5	17	-	-	12	14	179
GN 41-50-M16-100-D0-*	50	M 16	100	-	-	2.5	17	-	-	12	14	182
GN 41-50-M16-100-D1-*	50	M 16	100	-	-	2.5	17	-	2	12	14	188
GN 41-50-M16-100-D3-*	50	M 16	100	-	-	2.5	17	4	-	12	14	192

GN 41-T/TK — **STAINLESS STEEL**

Description	d1	d2	l1	d3	m	h1	h4	h6	s	A/F 2	Static load in kN	⚖
GN 41-50-M16-125-B0-*	50	M 16	125	6.6	38	2.5	17	-	-	12	14	211
GN 41-50-M16-125-D0-*	50	M 16	125	-	-	2.5	17	-	-	12	14	214
GN 41-50-M16-125-D1-*	50	M 16	125	-	-	2.5	17	-	2	12	14	220
GN 41-50-M16-125-D3-*	50	M 16	125	-	-	2.5	17	4	-	12	14	225
GN 41-50-M16-150-B0-*	50	M 16	150	6.6	38	2.5	17	-	-	12	14	243
GN 41-50-M16-150-D0-*	50	M 16	150	-	-	2.5	17	-	-	12	14	246
GN 41-50-M16-150-D1-*	50	M 16	150	-	-	2.5	17	-	2	12	14	256
GN 41-50-M16-150-D3-*	50	M 16	150	-	-	2.5	17	4	-	12	14	260
GN 41-50-M16-200-B0-*	50	M 16	200	6.6	38	2.5	17	-	-	12	14	286
GN 41-50-M16-200-D0-*	50	M 16	200	-	-	2.5	17	-	-	12	14	300
GN 41-50-M16-200-D1-*	50	M 16	200	-	-	2.5	17	-	2	12	14	320
GN 41-50-M16-200-D3-*	50	M 16	200	-	-	2.5	17	4	-	12	14	324
GN 41-60-M16-75-B0-*	60	M 16	75	6.6	48	2.5	17	-	-	12	16	162
GN 41-60-M16-75-D0-*	60	M 16	75	-	-	2.5	17	-	-	12	16	166
GN 41-60-M16-75-D1-*	60	M 16	75	-	-	2.5	17	-	2	12	16	170
GN 41-60-M16-75-D3-*	60	M 16	75	-	-	2.5	17	4.5	-	12	16	174
GN 41-60-M16-100-B0-*	60	M 16	100	6.6	48	2.5	17	-	-	12	16	195
GN 41-60-M16-100-D0-*	60	M 16	100	-	-	2.5	17	-	-	12	16	199
GN 41-60-M16-100-D1-*	60	M 16	100	-	-	2.5	17	-	2	12	16	207
GN 41-60-M16-100-D3-*	60	M 16	100	-	-	2.5	17	4.5	-	12	16	218
GN 41-60-M16-125-B0-*	60	M 16	125	6.6	48	2.5	17	-	-	12	16	227
GN 41-60-M16-125-D0-*	60	M 16	125	-	-	2.5	17	-	-	12	16	231
GN 41-60-M16-125-D1-*	60	M 16	125	-	-	2.5	17	-	2	12	16	239
GN 41-60-M16-125-D3-*	60	M 16	125	-	-	2.5	17	4.5	-	12	16	255

Weight Version T

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*Complete with version of the Levelling feet (Wrench flat at the bottom)

T
without nut

TK
with nut

GN 41-T/TK

STAINLESS STEEL

Description	d1	d2	l1	d3	m	h1	h4	h6	s	A/F 2	Static load in kN	⚖
GN 41-60-M16-150-B0-*	60	M 16	150	6.6	48	2.5	17	-	-	12	16	259
GN 41-60-M16-150-D0-*	60	M 16	150	-	-	2.5	17	-	-	12	16	263
GN 41-60-M16-150-D1-*	60	M 16	150	-	-	2.5	17	-	2	12	16	271
GN 41-60-M16-150-D3-*	60	M 16	150	-	-	2.5	17	4.5	-	12	16	282
GN 41-60-M16-200-B0-*	60	M 16	200	6.6	48	2.5	17	-	-	12	16	602
GN 41-60-M16-200-D0-*	60	M 16	200	-	-	2.5	17	-	-	12	16	610
GN 41-60-M16-200-D1-*	60	M 16	200	-	-	2.5	17	-	2	12	16	615
GN 41-60-M16-200-D3-*	60	M 16	200	-	-	2.5	17	4.5	-	12	16	625
GN 41-80-M16-75-B0-*	80	M 16	75	8.5	64	3	18	-	-	12	20	227
GN 41-80-M16-75-D0-*	80	M 16	75	-	-	3	18	-	-	12	20	224
GN 41-80-M16-75-D1-*	80	M 16	75	-	-	3	18	-	2	12	20	240
GN 41-80-M16-75-D3-*	80	M 16	75	-	-	3	18	5	-	12	20	261
GN 41-80-M16-100-B0-*	80	M 16	100	8.5	64	3	18	-	-	12	20	260
GN 41-80-M16-100-D0-*	80	M 16	100	-	-	3	18	-	-	12	20	259
GN 41-80-M16-100-D1-*	80	M 16	100	-	-	3	18	-	2	12	20	260
GN 41-80-M16-100-D3-*	80	M 16	100	-	-	3	18	5	-	12	20	280
GN 41-80-M16-125-B0-*	80	M 16	125	8.5	64	3	18	-	-	12	20	292
GN 41-80-M16-125-D0-*	80	M 16	125	-	-	3	18	-	-	12	20	293
GN 41-80-M16-125-D1-*	80	M 16	125	-	-	3	18	-	2	12	20	305
GN 41-80-M16-125-D3-*	80	M 16	125	-	-	3	18	5	-	12	20	315
GN 41-80-M16-150-B0-*	80	M 16	150	8.5	64	3	18	-	-	12	20	324
GN 41-80-M16-150-D0-*	80	M 16	150	-	-	3	18	-	-	12	20	325
GN 41-80-M16-150-D1-*	80	M 16	150	-	-	3	18	-	2	12	20	347
GN 41-80-M16-150-D3-*	80	M 16	150	-	-	3	18	5	-	12	20	360
GN 41-80-M16-200-B0-*	80	M 16	200	8.5	64	3	18	-	-	12	20	367
GN 41-80-M16-200-D0-*	80	M 16	200	-	-	3	18	-	-	12	20	368
GN 41-80-M16-200-D1-*	80	M 16	200	-	-	3	18	-	2	12	20	400
GN 41-80-M16-200-D3-*	80	M 16	200	-	-	3	18	5	-	12	20	450
GN 41-80-M20-75-B0-*	80	M 20	75	8.5	64	3	19	-	-	15	20	281
GN 41-80-M20-75-D0-*	80	M 20	75	-	-	3	19	-	-	15	20	290
GN 41-80-M20-75-D1-*	80	M 20	75	-	-	3	19	-	2	15	20	295
GN 41-80-M20-75-D3-*	80	M 20	75	-	-	3	19	5	-	15	20	319
GN 41-80-M20-100-B0-*	80	M 20	100	8.5	64	3	19	-	-	15	20	340
GN 41-80-M20-100-D0-*	80	M 20	100	-	-	3	19	-	-	15	20	350
GN 41-80-M20-100-D1-*	80	M 20	100	-	-	3	19	-	2	15	20	354
GN 41-80-M20-100-D3-*	80	M 20	100	-	-	3	19	5	-	15	20	364
GN 41-80-M20-125-B0-*	80	M 20	125	8.5	64	3	19	-	-	15	20	390

GN 41-T/TK

STAINLESS STEEL

Description	d1	d2	l1	d3	m	h1	h4	h6	s	A/F 2	Static load in kN	⚖
GN 41-80-M20-125-B0-*	80	M 20	125	8.5	64	3	19	-	-	15	20	390
GN 41-80-M20-125-D0-*	80	M 20	125	-	-	3	19	-	-	15	20	390
GN 41-80-M20-125-D1-*	80	M 20	125	-	-	3	19	-	2	15	20	400
GN 41-80-M20-125-D3-*	80	M 20	125	-	-	3	19	5	-	15	20	414
GN 41-80-M20-150-B0-*	80	M 20	150	8.5	64	3	19	-	-	15	20	441
GN 41-80-M20-150-D0-*	80	M 20	150	-	-	3	19	-	-	15	20	441
GN 41-80-M20-150-D1-*	80	M 20	150	-	-	3	19	-	2	15	20	455
GN 41-80-M20-150-D3-*	80	M 20	150	-	-	3	19	5	-	15	20	465
GN 41-80-M20-200-B0-*	80	M 20	200	8.5	64	3	19	-	-	15	20	541
GN 41-80-M20-200-D0-*	80	M 20	200	-	-	3	19	-	-	15	20	554
GN 41-80-M20-200-D1-*	80	M 20	200	-	-	3	19	-	2	15	20	555
GN 41-80-M20-200-D3-*	80	M 20	200	-	-	3	19	5	-	15	20	574
GN 41-80-M24-100-B0-*	80	M 24	100	8.5	64	3	22	-	-	19	22	448
GN 41-80-M24-100-D0-*	80	M 24	100	-	-	3	22	-	-	19	22	449
GN 41-80-M24-100-D1-*	80	M 24	100	-	-	3	22	-	2	19	22	461
GN 41-80-M24-100-D3-*	80	M 24	100	-	-	3	22	5	-	19	22	474
GN 41-80-M24-125-B0-*	80	M 24	125	8.5	64	3	22	-	-	19	22	528
GN 41-80-M24-125-D0-*	80	M 24	125	-	-	3	22	-	-	19	22	529
GN 41-80-M24-125-D1-*	80	M 24	125	-	-	3	22	-	2	19	22	541
GN 41-80-M24-125-D3-*	80	M 24	125	-	-	3	22	5	-	19	22	554
GN 41-80-M24-150-B0-*	80	M 24	150	8.5	64	3	22	-	-	19	22	594
GN 41-80-M24-150-D0-*	80	M 24	150	-	-	3	22	-	-	19	22	595
GN 41-80-M24-150-D1-*	80	M 24	150	-	-	3	22	-	2	19	22	607
GN 41-80-M24-150-D3-*	80	M 24	150	-	-	3	22	5	-	19	22	620
GN 41-80-M24-200-B0-*	80	M 24	200	8.5	64	3	22	-	-	19	22	740
GN 41-80-M24-200-D0-*	80	M 24	200	-	-	3	22	-	-	19	22	741
GN 41-80-M24-200-D1-*	80	M 24	200	-	-	3	22	-	2	19	22	753
GN 41-80-M24-200-D3-*	80	M 24	200	-	-	3	22	5	-	19	22	766

Weight Version T

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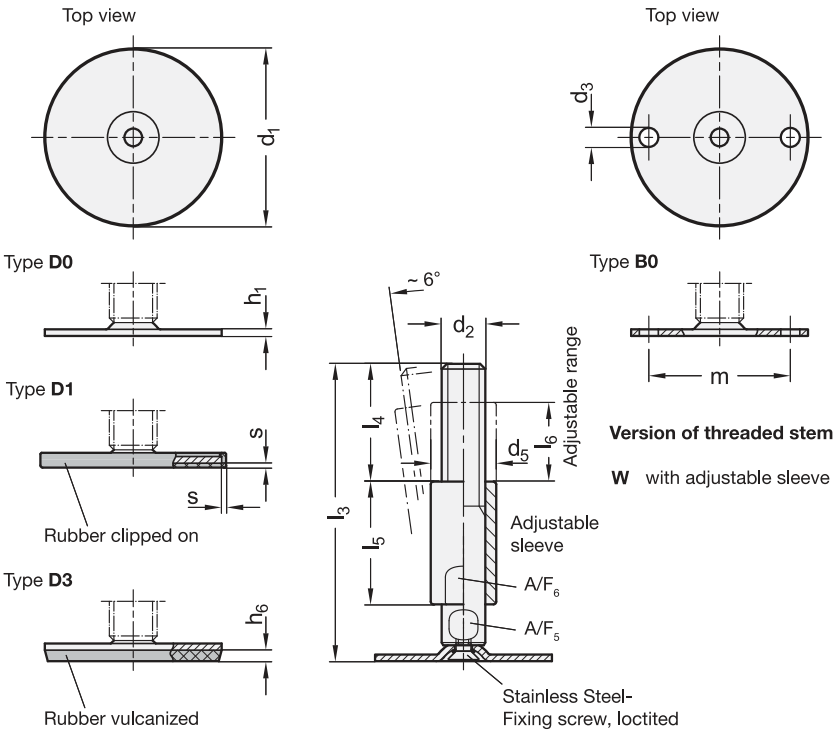

GN 41-W — **STAINLESS STEEL**

Description	d1	d2	l3	d3	d4	m	h1	h6	l4	l5	l6	s	A/F 5	A/F 6	Static load in kN	⚖
GN 41-60-M16-110-B0-W	60	M 16	110	6.6	24	48	2.5	-	45	45	29	-	12	20	16	280
GN 41-60-M16-110-D0-W	60	M 16	110	-	24	-	2.5	-	45	45	29	-	12	20	16	284
GN 41-60-M16-110-D1-W	60	M 16	110	-	24	-	2.5	-	45	45	29	2	12	20	16	292
GN 41-60-M16-110-D3-W	60	M 16	110	-	24	-	2.5	4.5	45	45	29	-	12	20	16	300
GN 41-60-M16-135-B0-W	60	M 16	135	6.6	24	48	2.5	-	45	45	29	-	12	20	16	317
GN 41-60-M16-135-D0-W	60	M 16	135	-	24	-	2.5	-	45	45	29	-	12	20	16	321
GN 41-60-M16-135-D1-W	60	M 16	135	-	24	-	2.5	-	45	45	29	2	12	20	16	329
GN 41-60-M16-135-D3-W	60	M 16	135	-	24	-	2.5	4.5	45	45	29	-	12	20	16	335
GN 41-60-M16-160-B0-W	60	M 16	160	6.6	24	48	2.5	-	45	45	29	-	12	20	16	358
GN 41-60-M16-160-D0-W	60	M 16	160	-	24	-	2.5	-	45	45	29	-	12	20	16	362
GN 41-60-M16-160-D1-W	60	M 16	160	-	24	-	2.5	-	45	45	29	2	12	20	16	376
GN 41-60-M16-160-D3-W	60	M 16	160	-	24	-	2.5	4.5	45	45	29	-	12	20	16	366
GN 41-60-M16-185-B0-W	60	M 16	185	6.6	24	48	2.5	-	45	45	29	-	12	20	16	398
GN 41-60-M16-185-D0-W	60	M 16	185	-	24	-	2.5	-	45	45	29	-	12	20	16	402
GN 41-60-M16-185-D1-W	60	M 16	185	-	24	-	2.5	-	45	45	29	2	12	20	16	410
GN 41-60-M16-185-D3-W	60	M 16	185	-	24	-	2.5	4.5	45	45	29	-	12	20	16	418
GN 41-80-M16-110-B0-W	80	M 16	110	8.5	24	64	3	-	45	45	29	-	12	20	20	345
GN 41-80-M16-110-D0-W	80	M 16	110	-	24	-	3	-	45	45	29	-	12	20	20	350
GN 41-80-M16-110-D1-W	80	M 16	110	-	24	-	3	-	45	45	29	2	12	20	20	358
GN 41-80-M16-110-D3-W	80	M 16	110	-	24	-	3	5	45	45	29	-	12	20	20	364
GN 41-80-M16-135-B0-W	80	M 16	135	8.5	24	64	3	-	45	45	29	-	12	20	20	382
GN 41-80-M16-135-D0-W	80	M 16	135	-	24	-	3	-	45	45	29	-	12	20	20	387
GN 41-80-M16-135-D1-W	80	M 16	135	-	24	-	3	-	45	45	29	2	12	20	20	400
GN 41-80-M16-135-D3-W	80	M 16	135	-	24	-	3	5	45	45	29	-	12	20	20	405
GN 41-80-M16-160-B0-W	80	M 16	160	8.5	24	64	3	-	45	45	29	-	12	20	20	423
GN 41-80-M16-160-D0-W	80	M 16	160	-	24	-	3	-	45	45	29	-	12	20	20	430
GN 41-80-M16-160-D1-W	80	M 16	160	-	24	-	3	-	45	45	29	2	12	20	20	440
GN 41-80-M16-160-D3-W	80	M 16	160	-	24	-	3	5	45	45	29	-	12	20	20	446
GN 41-80-M16-185-B0-W	80	M 16	185	8.5	24	64	3	-	45	45	29	-	12	20	20	463

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GN 41-W

STAINLESS STEEL

Description	d1	d2	l3	d3	d4	m	h1	h6	l4	l5	l6	s	A/F 5	A/F 6	Static load in kN	⚖
GN 41-80-M16-185-D0-W	80	M 16	185	-	24	-	3	-	45	45	29	-	12	20	20	469
GN 41-80-M16-185-D1-W	80	M 16	185	-	24	-	3	-	45	45	29	2	12	20	20	475
GN 41-80-M16-185-D3-W	80	M 16	185	-	24	-	3	5	45	45	29	-	12	20	20	486
GN 41-80-M20-134-B0-W	80	M 20	134	8.5	30	64	3	-	56	56	37	-	16	24	20	561
GN 41-80-M20-134-D0-W	80	M 20	134	-	30	-	3	-	56	56	37	-	16	24	20	561
GN 41-80-M20-134-D1-W	80	M 20	134	-	30	-	3	-	56	56	37	2	16	24	20	575
GN 41-80-M20-134-D3-W	80	M 20	134	-	30	-	3	5	56	56	37	-	16	24	20	580
GN 41-80-M20-159-B0-W	80	M 20	159	8.5	30	64	3	-	56	56	37	-	16	24	20	624
GN 41-80-M20-159-D0-W	80	M 20	159	-	30	-	3	-	56	56	37	-	16	24	20	624
GN 41-80-M20-159-D1-W	80	M 20	159	-	30	-	3	-	56	56	37	2	16	24	20	638
GN 41-80-M20-159-D3-W	80	M 20	159	-	30	-	3	5	56	56	37	-	16	24	20	645
GN 41-80-M20-184-B0-W	80	M 20	184	8.5	30	64	3	-	56	56	37	-	16	24	20	687
GN 41-80-M20-184-D0-W	80	M 20	184	-	30	-	3	-	56	56	37	-	16	24	20	687
GN 41-80-M20-184-D1-W	80	M 20	184	-	30	-	3	-	56	56	37	2	16	24	20	701
GN 41-80-M20-184-D3-W	80	M 20	184	-	30	-	3	5	56	56	37	-	16	24	20	710
GN 41-80-M20-234-B0-W	80	M 20	234	8.5	30	64	3	-	56	56	37	-	16	24	20	810
GN 41-80-M20-234-D0-W	80	M 20	234	-	30	-	3	-	56	56	37	-	16	24	20	811
GN 41-80-M20-234-D1-W	80	M 20	234	-	30	-	3	-	56	56	37	2	16	24	20	825
GN 41-80-M20-234-D3-W	80	M 20	234	-	30	-	3	5	56	56	37	-	16	24	20	840
GN 41-80-M24-159-B0-W	80	M 24	159	8.5	35	64	3	-	67	67	42	-	20	30	22	863
GN 41-80-M24-159-D0-W	80	M 24	159	-	35	-	3	-	67	67	42	-	20	30	22	870
GN 41-80-M24-159-D1-W	80	M 24	159	-	35	-	3	-	67	67	42	2	20	30	22	876
GN 41-80-M24-159-D3-W	80	M 24	159	-	35	-	3	5	67	67	42	-	20	30	22	889
GN 41-80-M24-209-B0-W	80	M 24	209	8.5	35	64	3	-	67	67	42	-	20	30	22	1041
GN 41-80-M24-209-D0-W	80	M 24	209	-	35	-	3	-	67	67	42	-	20	30	22	1045
GN 41-80-M24-209-D1-W	80	M 24	209	-	35	-	3	-	67	67	42	2	20	30	22	1054
GN 41-80-M24-209-D3-W	80	M 24	209	-	35	-	3	5	67	67	42	-	20	30	22	1067
GN 41-80-M24-259-B0-W	80	M 24	259	8.5	35	64	3	-	67	67	42	-	20	30	22	1220
GN 41-80-M24-259-D0-W	80	M 24	259	-	35	-	3	-	67	67	42	-	20	30	22	1225
GN 41-80-M24-259-D1-W	80	M 24	259	-	35	-	3	-	67	67	42	2	20	30	22	1233
GN 41-80-M24-259-D3-W	80	M 24	259	-	35	-	3	5	67	67	42	-	20	30	22	1246

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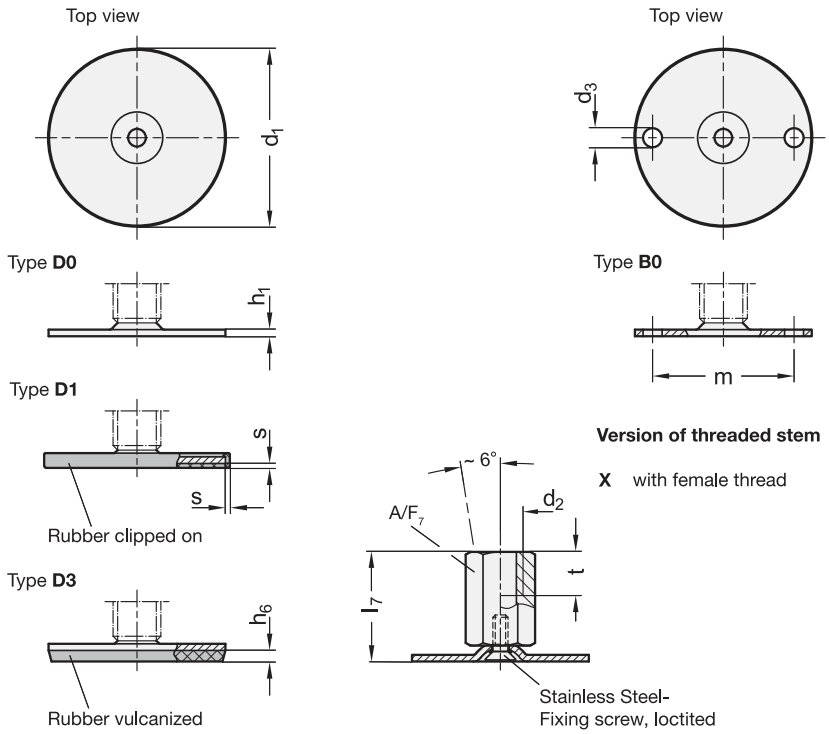
GN 41

Stainless Steel-Levelling feet



GN 41-X

STAINLESS STEEL

Description	d1	d2	l7	d3	m	h1	h6	s	A/F 7	t	Static load in kN	⚖
GN 41-40-M8-25-B0-X	40	M 8	25	5.4	30	2	-	-	14	8	8	40
GN 41-40-M8-25-D0-X	40	M 8	25	-	-	2	-	-	14	8	8	40
GN 41-40-M8-25-D1-X	40	M 8	25	-	-	2	-	1.5	14	8	8	41
GN 41-40-M8-25-D3-X	40	M 8	25	-	-	2	3.5	-	14	8	8	47
GN 41-40-M10-28-B0-X	40	M 10	28	5.4	30	2	-	-	14	10	12	40
GN 41-40-M10-28-D0-X	40	M 10	28	-	-	2	-	-	14	10	12	43
GN 41-40-M10-28-D1-X	40	M 10	28	-	-	2	-	1.5	14	10	12	47
GN 41-40-M10-28-D3-X	40	M 10	28	-	-	2	3.5	-	14	10	12	47
GN 41-40-M12-31-B0-X	40	M 12	31	5.4	30	2	-	-	17	12	12	68
GN 41-40-M12-31-D0-X	40	M 12	31	-	-	2	-	-	17	12	12	69
GN 41-40-M12-31-D1-X	40	M 12	31	-	-	2	-	1.5	17	12	12	70
GN 41-40-M12-31-D3-X	40	M 12	31	-	-	2	3.5	-	17	12	12	78
GN 41-40-M16-37-D0-X	40	M 16	37	-	-	2	-	-	22	16	12	100
GN 41-40-M16-37-D1-X	40	M 16	37	-	-	2	-	1.5	22	16	12	101
GN 41-40-M16-37-D3-X	40	M 16	37	-	-	2	3.5	-	22	16	12	102
GN 41-50-M8-25-B0-X	50	M 8	25	6.6	38	2.5	-	-	14	8	8	70
GN 41-50-M8-25-D0-X	50	M 8	25	-	-	2.5	-	-	14	8	8	70
GN 41-50-M8-25-D1-X	50	M 8	25	-	-	2.5	-	2	14	8	8	75
GN 41-50-M8-25-D3-X	50	M 8	25	-	-	2.5	4	-	14	8	8	75
GN 41-50-M10-28-B0-X	50	M 10	28	6.6	38	2.5	-	-	14	10	14	79
GN 41-50-M10-28-D0-X	50	M 10	28	-	-	2.5	-	-	14	10	14	70
GN 41-50-M10-28-D1-X	50	M 10	28	-	-	2.5	-	2	14	10	14	73
GN 41-50-M10-28-D3-X	50	M 10	28	-	-	2.5	4	-	14	10	14	74
GN 41-50-M12-32-B0-X	50	M 12	32	6.6	38	2.5	-	-	17	12	14	81
GN 41-50-M12-32-D0-X	50	M 12	32	-	-	2.5	-	-	17	12	14	84
GN 41-50-M12-32-D1-X	50	M 12	32	-	-	2.5	-	2	17	12	14	80
GN 41-50-M12-32-D3-X	50	M 12	32	-	-	2.5	4	-	17	12	14	90
GN 41-50-M16-37-B0-X	50	M 16	37	6.6	38	2.5	-	-	22	16	14	110
GN 41-50-M16-37-D0-X	50	M 16	37	-	-	2.5	-	-	22	16	14	120
GN 41-50-M16-37-D1-X	50	M 16	37	-	-	2.5	-	2	22	16	14	120
GN 41-50-M16-37-D3-X	50	M 16	37	-	-	2.5	4	-	22	16	14	130
GN 41-60-M8-25-B0-X	60	M 8	25	6.6	48	2.5	-	-	14	8	8	90
GN 41-60-M8-25-D0-X	60	M 8	25	-	-	2.5	-	-	14	8	8	90

GN 41-X

STAINLESS STEEL

Description	d1	d2	l7	d3	m	h1	h6	s	A/F 7	t	Static load in kN	⚖
GN 41-60-M8-25-D1-X	60	M 8	25	-	-	2.5	-	2	14	8	8	90
GN 41-60-M8-25-D3-X	60	M 8	25	-	-	2.5	4.5	-	14	8	8	95
GN 41-60-M10-28-B0-X	60	M 10	28	6.6	48	2.5	-	-	14	10	14	96
GN 41-60-M10-28-D0-X	60	M 10	28	-	-	2.5	-	-	14	10	14	79
GN 41-60-M10-28-D1-X	60	M 10	28	-	-	2.5	-	2	14	10	14	88
GN 41-60-M10-28-D3-X	60	M 10	28	-	-	2.5	4.5	-	14	10	14	100
GN 41-60-M12-32-B0-X	60	M 12	32	6.6	48	2.5	-	-	17	12	16	111
GN 41-60-M12-32-D0-X	60	M 12	32	-	-	2.5	-	-	17	12	16	97
GN 41-60-M12-32-D1-X	60	M 12	32	-	-	2.5	-	2	17	12	16	100
GN 41-60-M12-32-D3-X	60	M 12	32	-	-	2.5	4.5	-	17	12	16	100
GN 41-60-M16-37-B0-X	60	M 16	37	6.6	48	2.5	-	-	22	16	16	126
GN 41-60-M16-37-D0-X	60	M 16	37	-	-	2.5	-	-	22	16	16	130
GN 41-60-M16-37-D1-X	60	M 16	37	-	-	2.5	-	2	22	16	16	138
GN 41-60-M16-37-D3-X	60	M 16	37	-	-	2.5	4.5	-	22	16	16	140
GN 41-80-M8-26-B0-X	80	M 8	26	8.5	64	3	-	-	14	8	8	160
GN 41-80-M8-26-D0-X	80	M 8	26	-	-	3	-	-	14	8	8	141
GN 41-80-M8-26-D1-X	80	M 8	26	-	-	3	-	2	14	8	8	155
GN 41-80-M8-26-D3-X	80	M 8	26	-	-	3	5	-	14	8	8	180
GN 41-80-M10-29-B0-X	80	M 10	29	8.5	64	3	-	-	14	10	14	160
GN 41-80-M10-29-D0-X	80	M 10	29	-	-	3	-	-	14	10	14	140
GN 41-80-M10-29-D1-X	80	M 10	29	-	-	3	-	2	14	10	14	160
GN 41-80-M10-29-D3-X	80	M 10	29	-	-	3	5	-	14	10	14	172
GN 41-80-M12-32-B0-X	80	M 12	32	8.5	64	3	-	-	17	12	20	175
GN 41-80-M12-32-D0-X	80	M 12	32	-	-	3	-	-	17	12	20	160
GN 41-80-M12-32-D1-X	80	M 12	32	-	-	3	-	2	17	12	20	180
GN 41-80-M12-32-D3-X	80	M 12	32	-	-	3	5	-	17	12	20	180
GN 41-80-M16-38-B0-X	80	M 16	38	8.5	64	3	-	-	22	16	20	191
GN 41-80-M16-38-D0-X	80	M 16	38	-	-	3	-	-	22	16	20	194
GN 41-80-M16-38-D1-X	80	M 16	38	-	-	3	-	2	22	16	20	220
GN 41-80-M16-38-D3-X	80	M 16	38	-	-	3	5	-	22	16	20	221
GN 41-80-M20-45-B0-X	80	M 20	45	8.5	64	3	-	-	27	20	20	253
GN 41-80-M20-45-D0-X	80	M 20	45	-	-	3	-	-	27	20	20	260
GN 41-80-M20-45-D1-X	80	M 20	45	-	-	3	-	2	27	20	20	300
GN 41-80-M20-45-D3-X	80	M 20	45	-	-	3	5	-	27	20	20	270

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GN 42

Levelling feet

Steel, zinc plated, with fixing lug

SPECIFICATION

Types (Base plate)

- Type **A0**: Steel, zinc plated, without rubber underlay
- Type **A1**: Steel, zinc plated, rubber clipped on, black
- Type **A3**: Stainless Steel, blank, rubber vulcanised, black

Version of threaded stem

- Version **S**: without nut, external hexagon at the bottom
- Version **SK**: with nut, external hexagon at the bottom
- Version **U**: without nut, hexagon socket at the top, wrench flat at the bottom
- Version **UK**: hexagon socket at the top, wrench flat at the bottom
- Version **X**: with female thread, external hexagon

Base plate

- Type A0 / A1: Steel, zinc plated
- Type A3: Stainless Steel AISI 303

Threaded stem
Steel, zinc plated, blue passivated

Hexagon nut ISO 4032
Steel, zinc plated, blue passivated

Rubber cap, clipped on
black, Santoprene® (TPE) 80 ≈ Shore A

Rubber underlay, vulcanised
black, Perbunan® (NBR) 70 ± Shore A

INFORMATION

Levelling feet GN 42 will be delivered mounted and are not removable.

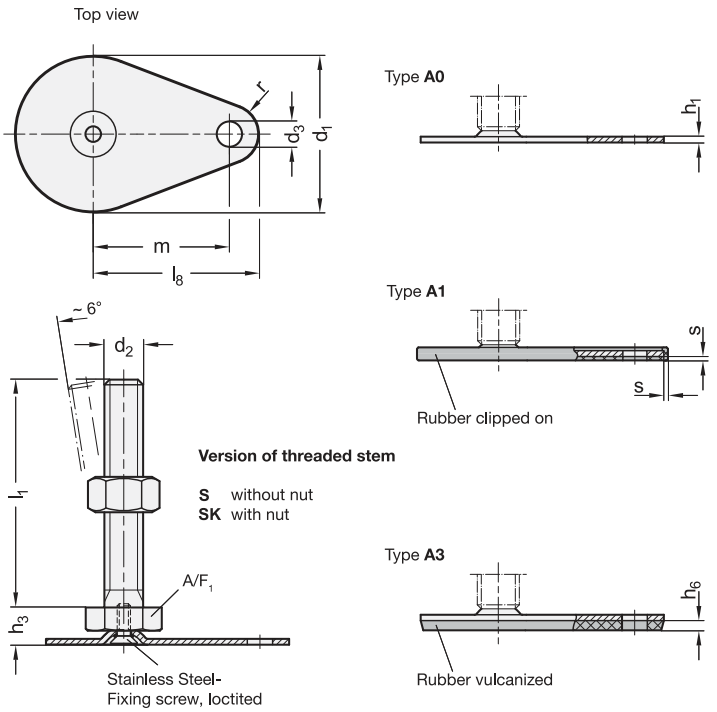
TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Elastomer characteristics (see page A32)

LOAD RATING OF LEVELLING FEET

Information

The static load bearing capacity given in the table rests on a test series in which the load has been applied perpendicular to the base plate (without rubber underlay). For the values given in the table, the strain relief may result in minor deformations of the base plate.
Bending and buckling stress which often occurs in practice results in a lower load bearing capacity of the adjustment spindle and may have to be taken into account.
Also, the spindle strength is assumed to be ≥ 500 N/mm^2.
The details given on strength are nonbinding guide values without any liability. In general, they do not constitute a warranty of quality.
The user must determine from case to case if a product is suitable for the intended purpose or use. Environmental factors may influence the stated values.



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*Complete with version of the Levelling feet (External hexagon at the bottom)

S
without nut

SK
with nut

GN 42-S/SK

Description	d1	d2	l1	d3	h1	h6	m	s	h3	r	A/F 1	Static load in kN	⚖
GN 42-50-M8-40-A0-*	50	M 8	40	13	2.5	-	45	-	11	15	17	8	90
GN 42-50-M8-40-A1-*	50	M 8	40	13	2.5	-	45	2	11	15	17	8	90
GN 42-50-M8-40-A3-*	50	M 8	40	13	2.5	4	45	-	11	15	17	8	100
GN 42-50-M8-50-A0-*	50	M 8	50	13	2.5	-	45	-	11	15	17	8	90
GN 42-50-M8-50-A1-*	50	M 8	50	13	2.5	-	45	2	11	15	17	8	90
GN 42-50-M8-50-A3-*	50	M 8	50	13	2.5	4	45	-	11	15	17	8	100
GN 42-50-M8-63-A0-*	50	M 8	63	13	2.5	-	45	-	11	15	17	8	95
GN 42-50-M8-63-A1-*	50	M 8	63	13	2.5	-	45	2	11	15	17	8	100
GN 42-50-M8-63-A3-*	50	M 8	63	13	2.5	4	45	-	11	15	17	8	110
GN 42-50-M10-50-A0-*	50	M 10	50	13	2.5	-	45	-	11	15	17	8	105
GN 42-50-M10-50-A1-*	50	M 10	50	13	2.5	-	45	2	11	15	17	8	100
GN 42-50-M10-50-A3-*	50	M 10	50	13	2.5	4	45	-	11	15	17	8	117
GN 42-50-M10-60-A0-*	50	M 10	60	13	2.5	-	45	-	11	15	17	8	125
GN 42-50-M10-60-A1-*	50	M 10	60	13	2.5	-	45	2	11	15	17	8	110
GN 42-50-M10-60-A3-*	50	M 10	60	13	2.5	4	45	-	11	15	17	8	150
GN 42-50-M10-80-A0-*	50	M 10	80	13	2.5	-	45	-	11	15	17	8	120
GN 42-50-M10-80-A1-*	50	M 10	80	13	2.5	-	45	2	11	15	17	8	120
GN 42-50-M10-80-A3-*	50	M 10	80	13	2.5	4	45	-	11	15	17	8	134
GN 42-50-M10-100-A0-*	50	M 10	100	13	2.5	-	45	-	11	15	17	8	130
GN 42-50-M10-100-A1-*	50	M 10	100	13	2.5	-	45	2	11	15	17	8	130
GN 42-50-M10-100-A3-*	50	M 10	100	13	2.5	4	45	-	11	15	17	8	140
GN 42-50-M12-60-A0-*	50	M 12	60	13	2.5	-	45	-	11	15	17	8	125
GN 42-50-M12-60-A1-*	50	M 12	60	13	2.5	-	45	2	11	15	17	8	130
GN 42-50-M12-60-A3-*	50	M 12	60	13	2.5	4	45	-	11	15	17	8	140
GN 42-50-M12-80-A0-*	50	M 12	80	13	2.5	-	45	-	11	15	17	8	140
GN 42-50-M12-80-A1-*	50	M 12	80	13	2.5	-	45	2	11	15	17	8	140
GN 42-50-M12-80-A3-*	50	M 12	80	13	2.5	4	45	-	11	15	17	8	160
GN 42-50-M12-100-A0-*	50	M 12	100	13	2.5	-	45	-	11	15	17	8	158
GN 42-50-M12-100-A1-*	50	M 12	100	13	2.5	-	45	2	11	15	17	8	150
GN 42-50-M12-100-A3-*	50	M 12	100	13	2.5	4	45	-	11	15	17	8	170
GN 42-50-M12-125-A0-*	50	M 12	125	13	2.5	-	45	-	11	15	17	8	175
GN 42-50-M12-125-A1-*	50	M 12	125	13	2.5	-	45	2	11	15	17	8	170
GN 42-50-M12-125-A3-*	50	M 12	125	13	2.5	4	45	-	11	15	17	8	195
GN 42-60-M8-40-A0-*	60	M 8	40	13	2.5	-	50	-	11	15	17	8	105
GN 42-60-M8-40-A1-*	60	M 8	40	13	2.5	-	50	2	11	15	17	8	110
GN 42-60-M8-40-A3-*	60	M 8	40	13	2.5	4.5	50	-	11	15	17	8	123
GN 42-60-M8-50-A0-*	60	M 8	50	13	2.5	-	50	-	11	15	17	8	110
GN 42-60-M8-50-A1-*	60	M 8	50	13	2.5	-	50	2	11	15	17	8	120
GN 42-60-M8-50-A3-*	60	M 8	50	13	2.5	4.5	50	-	11	15	17	8	130
GN 42-60-M8-63-A0-*	60	M 8	63	13	2.5	-	50	-	11	15	17	8	115
GN 42-60-M8-63-A1-*	60	M 8	63	13	2.5	-	50	2	11	15	17	8	120
GN 42-60-M8-63-A3-*	60	M 8	63	13	2.5	4.5	50	-	11	15	17	8	140
GN 42-60-M10-50-A0-*	60	M 10	50	13	2.5	-	50	-	11	15	17	10	125
GN 42-60-M10-50-A1-*	60	M 10	50	13	2.5	-	50	2	11	15	17	10	130
GN 42-60-M10-50-A3-*	60	M 10	50	13	2.5	4.5	50	-	11	15	17	10	140
GN 42-60-M10-60-A0-*	60	M 10	60	13	2.5	-	50	-	11	15	17	10	130
GN 42-60-M10-60-A1-*	60	M 10	60	13	2.5	-	50	2	11	15	17	10	140
GN 42-60-M10-60-A3-*	60	M 10	60	13	2.5	4.5	50	-	11	15	17	10	140
GN 42-60-M10-80-A0-*	60	M 10	80	13	2.5	-	50	-	11	15	17	10	140

GN 42-S/SK

Description	d1	d2	l1	d3	h1	h6	m	s	h3	r	A/F 1	Static load in kN	⚖
GN 42-60-M10-80-A1-*	60	M 10	80	13	2.5	-	50	2	11	15	17	10	150
GN 42-60-M10-80-A3-*	60	M 10	80	13	2.5	4.5	50	-	11	15	17	10	140
GN 42-60-M10-100-A0-*	60	M 10	100	13	2.5	-	50	-	11	15	17	10	150
GN 42-60-M10-100-A1-*	60	M 10	100	13	2.5	-	50	2	11	15	17	10	160
GN 42-60-M10-100-A3-*	60	M 10	100	13	2.5	4.5	50	-	11	15	17	10	160
GN 42-60-M12-60-A0-*	60	M 12	60	13	2.5	-	50	-	11	15	17	10	140
GN 42-60-M12-60-A1-*	60	M 12	60	13	2.5	-	50	2	11	15	17	10	150
GN 42-60-M12-60-A3-*	60	M 12	60	13	2.5	4.5	50	-	11	15	17	10	200
GN 42-60-M12-80-A0-*	60	M 12	80	13	2.5	-	50	-	11	15	17	10	160
GN 42-60-M12-80-A1-*	60	M 12	80	13	2.5	-	50	2	11	15	17	10	160
GN 42-60-M12-80-A3-*	60	M 12	80	13	2.5	4.5	50	-	11	15	17	10	200
GN 42-60-M12-100-A0-*	60	M 12	100	13	2.5	-	50	-	11	15	17	10	175
GN 42-60-M12-100-A1-*	60	M 12	100	13	2.5	-	50	2	11	15	17	10	190
GN 42-60-M12-100-A3-*	60	M 12	100	13	2.5	4.5	50	-	11	15	17	10	210
GN 42-60-M12-125-A0-*	60	M 12	125	13	2.5	-	50	-	11	15	17	10	200
GN 42-60-M12-125-A1-*	60	M 12	125	13	2.5	-	50	2	11	15	17	10	210
GN 42-60-M12-125-A3-*	60	M 12	125	13	2.5	4.5	50	-	11	15	17	10	220
GN 42-80-M8-40-A0-*	80	M 8	40	13	3	-	70	-	11	15	17	8	190
GN 42-80-M8-40-A1-*	80	M 8	40	13	3	-	70	2	11	15	17	8	200
GN 42-80-M8-40-A3-*	80	M 8	40	13	3	5	70	-	11	15	17	8	225
GN 42-80-M8-50-A0-*	80	M 8	50	13	3	-	70	-	11	15	17	8	195
GN 42-80-M8-50-A1-*	80	M 8	50	13	3	-	70	2	11	15	17	8	200
GN 42-80-M8-50-A3-*	80	M 8	50	13	3	5	70	-	11	15	17	8	230
GN 42-80-M8-63-A0-*	80	M 8	63	13	3	-	70	-	11	15	17	8	195
GN 42-80-M8-63-A1-*	80	M 8	63	13	3	-	70	2	11	15	17	8	220
GN 42-80-M8-63-A3-*	80	M 8	63	13	3	5	70	-	11	15	17	8	235
GN 42-80-M10-50-A0-*	80	M 10	50	13	3	-	70	-	11	15	17	10	200
GN 42-80-M10-50-A1-*	80	M 10	50	13	3	-	70	2	11	15	17	10	230
GN 42-80-M10-50-A3-*	80	M 10	50	13	3	5	70	-	11	15	17	10	240
GN 42-80-M10-60-A0-*	80	M 10	60	13	3	-	70	-	11	15	17	10	211
GN 42-80-M10-60-A1-*	80	M 10	60	13	3	-	70	2	11	15	17	10	240
GN 42-80-M10-60-A3-*	80	M 10	60	13	3	5	70	-	11	15	17	10	260
GN 42-80-M10-80-A0-*	80	M 10	80	13	3	-	70	-	11	15	17	10	220
GN 42-80-M10-80-A1-*	80	M 10	80	13	3	-	70	2	11	15	17	10	240
GN 42-80-M10-80-A3-*	80	M 10	80	13	3	5	70	-	11	15	17	10	260
GN 42-80-M10-100-A0-*	80	M 10	100	13	3	-	70	-	11	15	17	10	235
GN 42-80-M10-100-A1-*	80	M 10	100	13	3	-	70	2	11	15	17	10	250
GN 42-80-M10-100-A3-*	80	M 10	100	13	3	5	70	-	11	15	17	10	280
GN 42-80-M12-60-A0-*	80	M 12	60	13	3	-	70	-	11	15	17	12	240
GN 42-80-M12-60-A1-*	80	M 12	60	13	3	-	70	2	11	15	17	12	250
GN 42-80-M12-60-A3-*	80	M 12	60	13	3	5	70	-	11	15	17	12	270
GN 42-80-M12-80-A0-*	80	M 12	80	13	3	-	70	-	11	15	17	12	245
GN 42-80-M12-80-A1-*	80	M 12	80	13	3	-	70	2	11	15	17	12	260
GN 42-80-M12-80-A3-*	80	M 12	80	13	3	5	70	-	11	15	17	12	300
GN 42-80-M12-100-A0-*	80	M 12	100	13	3	-	70	-	11	15	17	12	250
GN 42-80-M12-100-A1-*	80	M 12	100	13	3	-	70	2	11	15	17	12	280
GN 42-80-M12-100-A3-*	80	M 12	100	13	3	5	70	-	11	15	17	12	300
GN 42-80-M12-125-A0-*	80	M 12	125	13	3	-	70	-	11	15	17	12	276
GN 42-80-M12-125-A1-*	80	M 12	125	13	3	-	70	2	11	15	17	12	290
GN 42-80-M12-125-A3-*	80	M 12	125	13	3	5	70	-	11	15	17	12	345

Weight Version S

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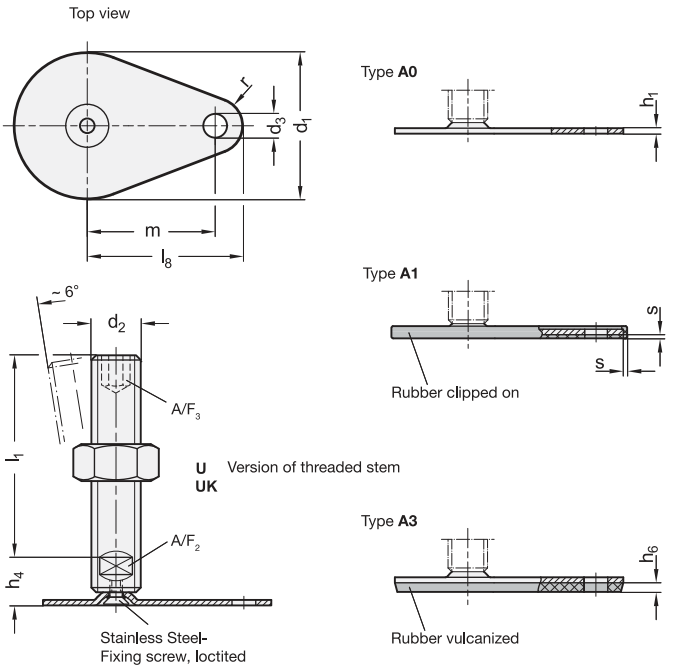
GN 42 | Levelling feet



*Complete with version of the Levelling feet (Hexagon socket at the top / Wrench at the bottom)

U without nut

UK with nut

GN 42-U/UK

Description	d1	d2	l1	d3	h1	h6	m	s	h4	r	A/F 2	A/F 3	Static load in kN	⚖
GN 42-50-M16-75-A0-*	50	M 16	75	13	2.5	-	45	-	17	15	12	8	8	195
GN 42-50-M16-75-A1-*	50	M 16	75	13	2.5	-	45	2	17	15	12	8	8	170
GN 42-50-M16-75-A3-*	50	M 16	75	13	2.5	4	45	-	17	15	12	8	8	180
GN 42-50-M16-100-A0-*	50	M 16	100	13	2.5	-	45	-	17	15	12	8	8	225
GN 42-50-M16-100-A1-*	50	M 16	100	13	2.5	-	45	2	17	15	12	8	8	200
GN 42-50-M16-100-A3-*	50	M 16	100	13	2.5	4	45	-	17	15	12	8	8	240
GN 42-50-M16-125-A0-*	50	M 16	125	13	2.5	-	45	-	17	15	12	8	8	255
GN 42-50-M16-125-A1-*	50	M 16	125	13	2.5	-	45	2	17	15	12	8	8	260
GN 42-50-M16-125-A3-*	50	M 16	125	13	2.5	4	45	-	17	15	12	8	8	270
GN 42-50-M16-150-A0-*	50	M 16	150	13	2.5	-	45	-	17	15	12	8	8	260
GN 42-50-M16-150-A1-*	50	M 16	150	13	2.5	-	45	2	17	15	12	8	8	300
GN 42-50-M16-150-A3-*	50	M 16	150	13	2.5	4	45	-	17	15	12	8	8	305
GN 42-50-M16-200-A0-*	50	M 16	200	13	2.5	-	45	-	17	15	12	8	8	320
GN 42-50-M16-200-A1-*	50	M 16	200	13	2.5	-	45	2	17	15	12	8	8	300
GN 42-50-M16-200-A3-*	50	M 16	200	13	2.5	4	45	-	17	15	12	8	8	360
GN 42-60-M16-75-A0-*	60	M 16	75	13	2.5	-	50	-	17	15	12	8	10	210
GN 42-60-M16-75-A1-*	60	M 16	75	13	2.5	-	50	2	17	15	12	8	10	225
GN 42-60-M16-75-A3-*	60	M 16	75	13	2.5	4.5	50	-	17	15	12	8	10	230
GN 42-60-M16-100-A0-*	60	M 16	100	13	2.5	-	50	-	17	15	12	8	10	247
GN 42-60-M16-100-A1-*	60	M 16	100	13	2.5	-	50	2	17	15	12	8	10	260
GN 42-60-M16-100-A3-*	60	M 16	100	13	2.5	4.5	50	-	17	15	12	8	10	210
GN 42-60-M16-125-A0-*	60	M 16	125	13	2.5	-	50	-	17	15	12	8	10	280
GN 42-60-M16-125-A1-*	60	M 16	125	13	2.5	-	50	2	17	15	12	8	10	290
GN 42-60-M16-125-A3-*	60	M 16	125	13	2.5	4.5	50	-	17	15	12	8	10	300
GN 42-60-M16-150-A0-*	60	M 16	150	13	2.5	-	50	-	17	15	12	8	10	300
GN 42-60-M16-150-A1-*	60	M 16	150	13	2.5	-	50	2	17	15	12	8	10	325
GN 42-60-M16-150-A3-*	60	M 16	150	13	2.5	4.5	50	-	17	15	12	8	10	330
GN 42-60-M16-200-A0-*	60	M 16	200	13	2.5	-	50	-	17	15	12	8	10	400
GN 42-60-M16-200-A1-*	60	M 16	200	13	2.5	-	50	2	17	15	12	8	10	347
GN 42-60-M16-200-A3-*	60	M 16	200	13	2.5	4.5	50	-	17	15	12	8	10	360
GN 42-80-M16-75-A0-*	80	M 16	75	13	3	-	70	-	17	15	12	8	12	300
GN 42-80-M16-75-A1-*	80	M 16	75	13	3	-	70	2	17	15	12	8	12	315
GN 42-80-M16-75-A3-*	80	M 16	75	13	3	5	70	-	17	15	12	8	12	337
GN 42-80-M16-100-A0-*	80	M 16	100	13	3	-	70	-	17	15	12	8	12	333
GN 42-80-M16-100-A1-*	80	M 16	100	13	3	-	70	2	17	15	12	8	12	351
GN 42-80-M16-100-A3-*	80	M 16	100	13	3	5	70	-	17	15	12	8	12	367

GN 42-U/UK

Description	d1	d2	l1	d3	h1	h6	m	s	h4	r	A/F 2	A/F 3	Static load in kN	⚖
GN 42-80-M16-125-A0-*	80	M 16	125	13	3	-	70	-	17	15	12	8	12	364
GN 42-80-M16-125-A1-*	80	M 16	125	13	3	-	70	2	17	15	12	8	2	360
GN 42-80-M16-125-A3-*	80	M 16	125	13	3	5	70	-	17	15	12	8	12	402
GN 42-80-M16-150-A0-*	80	M 16	150	13	3	-	70	-	17	15	12	8	12	390
GN 42-80-M16-150-A1-*	80	M 16	150	13	3	-	70	2	17	15	12	8	12	593
GN 42-80-M16-150-A3-*	80	M 16	150	13	3	5	70	-	17	15	12	8	12	435
GN 42-80-M16-200-A0-*	80	M 16	200	13	3	-	70	-	17	15	12	8	12	464
GN 42-80-M16-200-A1-*	80	M 16	200	13	3	-	70	2	17	15	12	8	12	481
GN 42-80-M16-200-A3-*	80	M 16	200	13	3	5	70	-	17	15	12	8	12	450
GN 42-80-M20-75-A0-*	80	M 20	75	13	3	-	70	-	17	15	15	10	16	320
GN 42-80-M20-75-A1-*	80	M 20	75	13	3	-	70	2	17	15	15	10	16	340
GN 42-80-M20-75-A3-*	80	M 20	75	13	3	5	70	-	17	15	15	10	16	400
GN 42-80-M20-100-A0-*	80	M 20	100	13	3	-	70	-	17	15	15	10	16	440
GN 42-80-M20-100-A1-*	80	M 20	100	13	3	-	70	2	17	15	15	10	16	400
GN 42-80-M20-100-A3-*	80	M 20	100	13	3	5	70	-	17	15	15	10	16	480
GN 42-80-M20-125-A0-*	80	M 20	125	13	3	-	70	-	17	15	15	10	16	490
GN 42-80-M20-125-A1-*	80	M 20	125	13	3	-	70	2	17	15	15	10	16	500
GN 42-80-M20-125-A3-*	80	M 20	125	13	3	5	70	-	17	15	15	10	16	540
GN 42-80-M20-150-A0-*	80	M 20	150	13	3	-	70	-	17	15	15	10	16	500
GN 42-80-M20-150-A1-*	80	M 20	150	13	3	-	70	2	17	15	15	10	16	550
GN 42-80-M20-150-A3-*	80	M 20	150	13	3	5	70	-	17	15	15	10	16	600
GN 42-80-M20-200-A0-*	80	M 20	200	13	3	-	70	-	17	15	15	10	16	640
GN 42-80-M20-200-A1-*	80	M 20	200	13	3	-	70	2	17	15	15	10	16	650
GN 42-80-M20-200-A3-*	80	M 20	200	13	3	5	70	-	17	15	15	10	16	660
GN 42-80-M24-100-A0-*	80	M 24	100	13	3	-	70	-	20	15	19	12	16	582
GN 42-80-M24-100-A1-*	80	M 24	100	13	3	-	70	2	20	15	19	12	16	600
GN 42-80-M24-100-A3-*	80	M 24	100	13	3	5	70	-	20	15	19	12	16	620
GN 42-80-M24-125-A0-*	80	M 24	125	13	3	-	70	-	20	15	19	12	16	655
GN 42-80-M24-125-A1-*	80	M 24	125	13	3	-	70	2	20	15	19	12	16	670
GN 42-80-M24-125-A3-*	80	M 24	125	13	3	5	70	-	20	15	19	12	16	700
GN 42-80-M24-150-A0-*	80	M 24	150	13	3	-	70	-	20	15	19	12	16	730
GN 42-80-M24-150-A1-*	80	M 24	150	13	3	-	70	2	20	15	19	12	16	740
GN 42-80-M24-150-A3-*	80	M 24	150	13	3	5	70	-	20	15	19	12	16	766
GN 42-80-M24-200-A0-*	80	M 24	200	13	3	-	70	-	20	15	19	12	16	860
GN 42-80-M24-200-A1-*	80	M 24	200	13	3	-	70	2	20	15	19	12	16	877
GN 42-80-M24-200-A3-*	80	M 24	200	13	3	5	70	-	20	15	19	12	16	897

Weight Version U

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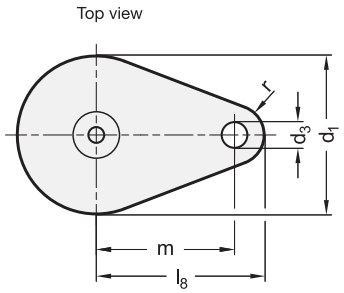
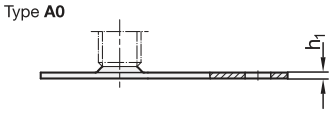
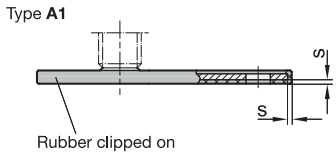
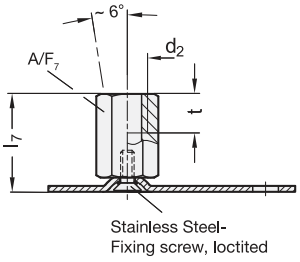


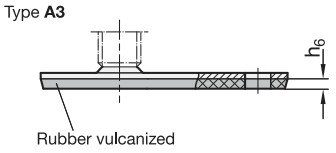




Version of threaded stem

X with female thread





GN 42-X

Description	d1	d2	l7	d3	h1	h6	m1	s	r	A/F 7	t	Static load in kN	⚖
GN 42-50-M8-25-A0-X	50	M 8	25	13	2.5	-	45	-	15	14	8	8	83
GN 42-50-M8-25-A1-X	50	M 8	25	13	2.5	-	45	2	15	14	8	8	90
GN 42-50-M8-25-A3-X	50	M 8	25	13	2.5	4	45	-	15	14	8	8	90
GN 42-50-M10-28-A0-X	50	M 10	28	13	2.5	-	45	-	15	14	10	8	90
GN 42-50-M10-28-A1-X	50	M 10	28	13	2.5	-	45	2	15	14	10	8	90
GN 42-50-M10-28-A3-X	50	M 10	28	13	2.5	4	45	-	15	14	10	8	90
GN 42-50-M12-32-A0-X	50	M 12	32	13	2.5	-	45	-	15	17	12	8	97
GN 42-50-M12-32-A1-X	50	M 12	32	13	2.5	-	45	2	15	17	12	8	110
GN 42-50-M12-32-A3-X	50	M 12	32	13	2.5	4	45	-	15	17	12	8	159
GN 42-50-M16-37-A0-X	50	M 16	37	13	2.5	-	45	-	15	22	16	8	130
GN 42-50-M16-37-A1-X	50	M 16	37	13	2.5	-	45	2	15	22	16	8	150
GN 42-50-M16-37-A3-X	50	M 16	37	13	2.5	4	45	-	15	22	16	8	146
GN 42-60-M8-25-A0-X	60	M 8	25	13	2.5	-	50	-	15	14	8	8	100
GN 42-60-M8-25-A1-X	60	M 8	25	13	2.5	-	50	2	15	14	8	8	110
GN 42-60-M8-25-A3-X	60	M 8	25	13	2.5	4.5	50	-	15	14	8	8	120
GN 42-60-M10-28-A0-X	60	M 10	28	13	2.5	-	50	-	15	14	10	10	100
GN 42-60-M10-28-A1-X	60	M 10	28	13	2.5	-	50	2	15	14	10	10	110
GN 42-60-M10-28-A3-X	60	M 10	28	13	2.5	4.5	50	-	15	14	10	10	120
GN 42-60-M12-32-A0-X	60	M 12	32	13	2.5	-	50	-	15	17	12	10	120
GN 42-60-M12-32-A1-X	60	M 12	32	13	2.5	-	50	2	15	17	12	10	130
GN 42-60-M12-32-A3-X	60	M 12	32	13	2.5	4.5	50	-	15	17	12	10	130

GN 42-X

Description	d1	d2	l7	d3	h1	h6	m1	s	r	A/F 7	t	Static load in kN	⚖
GN 42-60-M12-32-A1-X	60	M 12	32	13	2.5	-	50	2	15	17	12	10	130
GN 42-60-M12-32-A3-X	60	M 12	32	13	2.5	4.5	50	-	15	17	12	10	130
GN 42-60-M16-37-A0-X	60	M 16	37	13	2.5	-	50	-	15	22	16	10	152
GN 42-60-M16-37-A1-X	60	M 16	37	13	2.5	-	50	2	15	22	16	10	170
GN 42-60-M16-37-A3-X	60	M 16	37	13	2.5	4.5	50	-	15	22	16	10	150
GN 42-80-M8-26-A0-X	80	M 8	26	13	3	-	70	-	15	14	8	8	184
GN 42-80-M8-26-A1-X	80	M 8	26	13	3	-	70	2	15	14	8	8	200
GN 42-80-M8-26-A3-X	80	M 8	26	13	3	5	70	-	15	14	8	8	223
GN 42-80-M10-29-A0-X	80	M 10	29	13	3	-	70	-	15	14	10	10	180
GN 42-80-M10-29-A1-X	80	M 10	29	13	3	-	70	2	15	14	10	10	200
GN 42-80-M10-29-A3-X	80	M 10	29	13	3	5	70	-	15	14	10	10	220
GN 42-80-M12-32-A0-X	80	M 12	32	13	3	-	70	-	15	17	12	12	205
GN 42-80-M12-32-A1-X	80	M 12	32	13	3	-	70	2	15	17	12	12	220
GN 42-80-M12-32-A3-X	80	M 12	32	13	3	5	70	-	15	17	12	12	240
GN 42-80-M16-38-A0-X	80	M 16	38	13	3	-	70	-	15	22	16	12	230
GN 42-80-M16-38-A1-X	80	M 16	38	13	3	-	70	2	15	22	16	12	255
GN 42-80-M16-38-A3-X	80	M 16	38	13	3	5	70	-	15	22	16	12	273
GN 42-80-M20-45-A0-X	80	M 20	45	13	3	-	70	-	15	27	20	16	200
GN 42-80-M20-45-A1-X	80	M 20	45	13	3	-	70	2	15	27	20	16	320
GN 42-80-M20-45-A3-X	80	M 20	45	13	3	5	70	-	15	27	20	16	335

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Stainless Steel-Levelling feet

with fixing lug

SPECIFICATION

Types (Base plate)

- Type **D0**: blank, ground without rubber underlay
- Type **D1**: blank, ground rubber, clipped on, black
- Type **D3**: blank, ground rubber vulcanised, black

Version

- Version **S**: without nut, external hexagon at the bottom
- Version **SK**: with nut, external hexagon at the bottom
- Version **T**: without nut, wrench flat at the bottom, "not dipping" version
- Version **TK**: with nut, wrench flat at the bottom, "not dipping" version
- Version **U**: without nut, hexagon socket at the top, wrench flat at the bottom
- Version **UK**: with nut, hexagon socket at the top, wrench flat at the bottom
- Version **V**: without nut, external hexagon at the top, wrench flat at the bottom
- Version **VK**: with nut, external hexagon at the top, wrench flat at the bottom
- Version **W**: with adjustable sleeve, wrench flat at the bottom
- Version **X**: with female thread, external hexagon

Base plate
Stainless Steel AISI 304

Threaded stem
Stainless Steel AISI 303

Hexagon nut ISO 4032
Stainless Steel AISI 304

Rubber cap, clipped on
black, Santoprene® (TPE) 80 ≈ Shore A

Rubber underlay, vulcanised
black, Perbunan® (NBR) 70 ± Shore A

INFORMATION

Stainless Steel-Levelling feet GN 43 will be delivered mounted and are not removable.

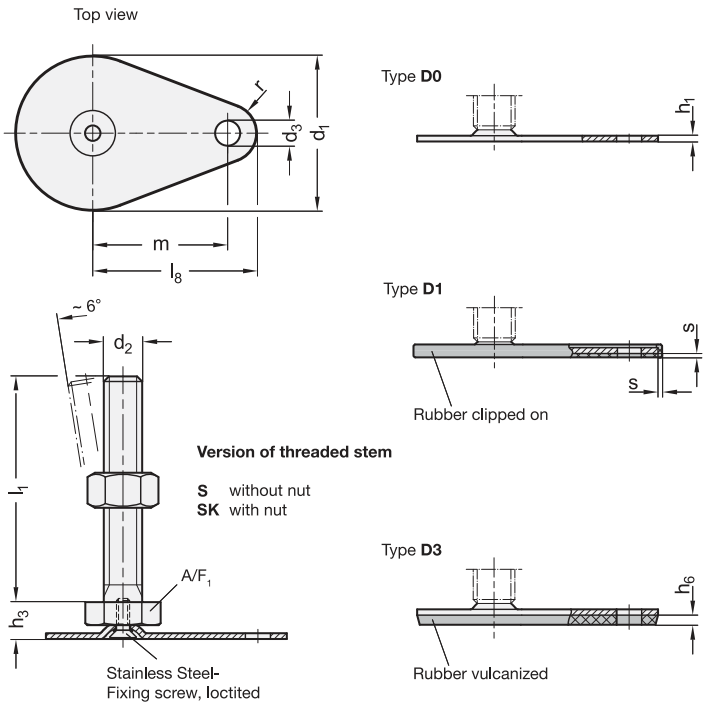
TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Elastomer characteristics (see page A32)

LOAD RATING OF STAINLESS STEEL-LEVELLING FEET

Information

The static load bearing capacity given in the table rests on a test series in which the load has been applied perpendicular to the base plate (without rubber underlay). For the values given in the table, the strain relief may result in minor deformations of the base plate.
Bending and buckling stress which oftenoccurs in practice results in a lower load bearing capacity of the adjustment spindle and may have to be taken into account.
Also, the spindle strength is assumed to be ≥ 500 N/mm^2.
The details given on strength are nonbinding guide values without any liability. In general, they do not constitute a warranty of quality.
The user must determine from case to case if a product is suitable for the intended purpose or use. Environmental factors may influence the stated values.



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GN 43 | Stainless Steel-Levelling feet

*Complete with version of the Levelling feet (External hexagon at the bottom)

S
without nut

SK
with nut

GN 43-S/SK — **STAINLESS STEEL**

Description	d1	d2	l1	d3	h1	h3	h6	s	r	A/F 1	Static load in kN	⚖
GN 43-50-M8-40-D0-*	50	M 8	40	13	2	11	-	2	15	17	8	90
GN 43-50-M8-40-D1-*	50	M 8	40	13	2.5	11	-	2	15	17	8	100
GN 43-50-M8-40-D3-*	50	M 8	40	13	2.5	11	4	2	15	17	8	100
GN 43-50-M8-50-D0-*	50	M 8	50	13	2.5	11	-	2	15	17	8	92
GN 43-50-M8-50-D1-*	50	M 8	50	13	2.5	11	-	2	15	17	8	100
GN 43-50-M8-50-D3-*	50	M 8	50	13	2.5	11	4	2	15	17	8	103
GN 43-50-M8-63-D0-*	50	M 8	63	13	2.5	11	-	2	15	17	8	100
GN 43-50-M8-63-D1-*	50	M 8	63	13	2.5	11	-	2	15	17	8	100
GN 43-50-M8-63-D3-*	50	M 8	63	13	2.5	11	4	2	15	17	8	120
GN 43-50-M10-50-D0-*	50	M 10	50	13	2.5	11	-	2	15	17	14	100
GN 43-50-M10-50-D1-*	50	M 10	50	13	2.5	11	-	2	15	17	14	100
GN 43-50-M10-50-D3-*	50	M 10	50	13	2.5	11	4	2	15	17	14	120
GN 43-50-M10-60-D0-*	50	M 10	60	13	2.5	11	-	2	15	17	14	115
GN 43-50-M10-60-D1-*	50	M 10	60	13	2.5	11	-	2	15	17	14	120
GN 43-50-M10-60-D3-*	50	M 10	60	13	2.5	11	4	2	15	17	14	120
GN 43-50-M10-80-D0-*	50	M 10	80	13	2.5	11	-	2	15	17	14	120
GN 43-50-M10-80-D1-*	50	M 10	80	13	2.5	11	-	2	15	17	14	128
GN 43-50-M10-80-D3-*	50	M 10	80	13	2.5	11	4	2	15	17	14	140
GN 43-50-M10-100-D0-*	50	M 10	100	13	2.5	11	-	2	15	17	14	110
GN 43-50-M10-100-D1-*	50	M 10	100	13	2.5	11	-	2	15	17	14	140
GN 43-50-M10-100-D3-*	50	M 10	100	13	2.5	11	4	2	15	17	14	140
GN 43-50-M12-60-D0-*	50	M 12	60	13	2.5	11	-	2	15	17	14	129
GN 43-50-M12-60-D1-*	50	M 12	60	13	2.5	11	-	2	15	17	14	140
GN 43-50-M12-60-D3-*	50	M 12	60	13	2.5	11	4	2	15	17	14	140
GN 43-50-M12-80-D0-*	50	M 12	80	13	2.5	11	-	2	15	17	14	143
GN 43-50-M12-80-D1-*	50	M 12	80	13	2.5	11	-	2	15	17	14	143
GN 43-50-M12-80-D3-*	50	M 12	80	13	2.5	11	4	2	15	17	14	160
GN 43-50-M12-100-D0-*	50	M 12	100	13	2.5	11	-	2	15	17	14	160
GN 43-50-M12-100-D1-*	50	M 12	100	13	2.5	11	-	2	15	17	14	166
GN 43-50-M12-100-D3-*	50	M 12	100	13	2.5	11	4	2	15	17	14	170
GN 43-50-M12-125-D0-*	50	M 12	125	13	2.5	11	-	2	15	17	14	180
GN 43-50-M12-125-D1-*	50	M 12	125	13	2.5	11	-	2	15	17	14	200
GN 43-50-M12-125-D3-*	50	M 12	125	13	2.5	11	4	2	15	17	14	200
GN 43-60-M8-40-D0-*	60	M 8	40	13	2.5	11	-	2	15	17	8	102
GN 43-60-M8-40-D1-*	60	M 8	40	13	2.5	11	-	2	15	17	8	108
GN 43-60-M8-40-D3-*	60	M 8	40	13	2.5	11	4.5	2	15	17	8	120
GN 43-60-M8-50-D0-*	60	M 8	50	13	2.5	11	-	2	15	17	8	100
GN 43-60-M8-50-D1-*	60	M 8	50	13	2.5	11	-	2	15	17	8	120
GN 43-60-M8-50-D3-*	60	M 8	50	13	2.5	11	4.5	2	15	17	8	130
GN 43-60-M8-63-D0-*	60	M 8	63	13	2.5	11	-	2	15	17	8	109
GN 43-60-M8-63-D1-*	60	M 8	63	13	2.5	11	-	2	15	17	8	116
GN 43-60-M8-63-D3-*	60	M 8	63	13	2.5	11	4.5	2	15	17	8	148
GN 43-60-M10-50-D0-*	60	M 10	50	13	2.5	11	-	2	15	17	14	120
GN 43-60-M10-50-D1-*	60	M 10	50	13	2.5	11	-	2	15	17	14	130
GN 43-60-M10-50-D3-*	60	M 10	50	13	2.5	11	4.5	2	15	17	14	140
GN 43-60-M10-60-D0-*	60	M 10	60	13	2.5	11	-	2	15	17	14	130
GN 43-60-M10-60-D1-*	60	M 10	60	13	2.5	11	-	2	15	17	14	140
GN 43-60-M10-60-D3-*	60	M 10	60	13	2.5	11	4.5	2	15	17	14	164
GN 43-60-M10-80-D0-*	60	M 10	80	13	2.5	11	-	2	15	17	14	140

GN 43-S/SK — **STAINLESS STEEL**

Description	d1	d2	l1	d3	h1	h3	h6	s	r	A/F 1	Static load in kN	⚖
GN 43-60-M10-80-D0-*	60	M 10	80	13	2.5	11	-	2	15	17	14	140
GN 43-60-M10-80-D1-*	60	M 10	80	13	2.5	11	-	2	15	17	14	150
GN 43-60-M10-80-D3-*	60	M 10	80	13	2.5	11	4.5	2	15	17	14	170
GN 43-60-M10-100-D0-*	60	M 10	100	13	2.5	11	-	2	15	17	14	140
GN 43-60-M10-100-D1-*	60	M 10	100	13	2.5	11	-	2	15	17	14	160
GN 43-60-M10-100-D3-*	60	M 10	100	13	2.5	11	4.5	2	15	17	14	180
GN 43-60-M12-60-D0-*	60	M 12	60	13	2.5	11	-	2	15	17	16	150
GN 43-60-M12-60-D1-*	60	M 12	60	13	2.5	11	-	2	15	17	16	159
GN 43-60-M12-60-D3-*	60	M 12	60	13	2.5	11	4.5	2	15	17	16	181
GN 43-60-M12-80-D0-*	60	M 12	80	13	2.5	11	-	2	15	17	16	160
GN 43-60-M12-80-D1-*	60	M 12	80	13	2.5	11	-	2	15	17	16	180
GN 43-60-M12-80-D3-*	60	M 12	80	13	2.5	11	4.5	2	15	17	16	180
GN 43-60-M12-100-D0-*	60	M 12	100	13	2.5	11	-	2	15	17	16	180
GN 43-60-M12-100-D1-*	60	M 12	100	13	2.5	11	-	2	15	17	6	190
GN 43-60-M12-100-D3-*	60	M 12	100	13	2.5	11	4.5	2	15	17	16	200
GN 43-60-M12-125-D0-*	60	M 12	125	13	2.5	11	-	2	15	17	16	200
GN 43-60-M12-125-D1-*	60	M 12	125	13	2.5	11	-	2	15	17	16	210
GN 43-60-M12-125-D3-*	60	M 12	125	13	2.5	11	4.5	2	15	17	16	210
GN 43-80-M8-40-D0-*	80	M 8	40	13	3	12	-	2	15	17	8	195
GN 43-80-M8-40-D1-*	80	M 8	40	13	3	12	-	2	15	17	8	212
GN 43-80-M8-40-D3-*	80	M 8	40	13	3	12	5	2	15	17	8	225
GN 43-80-M8-50-D0-*	80	M 8	50	13	3	12	-	2	15	17	8	184
GN 43-80-M8-50-D1-*	80	M 8	50	13	3	12	-	2	15	17	8	230
GN 43-80-M8-50-D3-*	80	M 8	50	13	3	12	5	2	15	17	8	230
GN 43-80-M8-63-D0-*	80	M 8	63	13	3	12	-	2	15	17	8	192
GN 43-80-M8-63-D1-*	80	M 8	63	13	3	12	-	2	15	17	8	205
GN 43-80-M8-63-D3-*	80	M 8	63	13	3	12	5	2	15	17	8	232
GN 43-80-M10-50-D0-*	80	M 10	50	13	3	12	-	2	15	17	14	222
GN 43-80-M10-50-D1-*	80	M 10	50	13	3	12	-	2	15	17	14	230
GN 43-80-M10-50-D3-*	80	M 10	50	13	3	12	5	2	15	17	14	262
GN 43-80-M10-60-D0-*	80	M 10	60	13	3	12	-	2	15	17	14	230
GN 43-80-M10-60-D1-*	80	M 10	60	13	3	12	-	2	15	17	14	227
GN 43-80-M10-60-D3-*	80	M 10	60	13	3	12	5	2	15	17	14	266
GN 43-80-M10-80-D0-*	80	M 10	80	13	3	12	-	2	15	17	14	236
GN 43-80-M10-80-D1-*	80	M 10	80	13	3	12	-	2	15	17	14	240
GN 43-80-M10-80-D3-*	80	M 10	80	13	3	12	5	2	15	17	14	270
GN 43-80-M10-100-D0-*	80	M 10	100	13	3	12	-	2	15	17	14	240
GN 43-80-M10-100-D1-*	80	M 10	100	13	3	12	-	2	15	17	14	257
GN 43-80-M10-100-D3-*	80	M 10	100	13	3	12	5	2	15	17	14	273
GN 43-80-M12-60-D0-*	80	M 12	60	13	3	12	-	2	15	17	20	250
GN 43-80-M12-60-D1-*	80	M 12	60	13	3	12	-	2	15	17	20	265
GN 43-80-M12-60-D3-*	80	M 12	60	13	3	12	5	2	15	17	20	283
GN 43-80-M12-80-D0-*	80	M 12	80	13	3	12	-	2	15	17	20	250
GN 43-80-M12-80-D1-*	80	M 12	80	13	3	12	-	2	15	17	20	267
GN 43-80-M12-80-D3-*	80	M 12	80	13	3	12	5	2	15	17	20	290
GN 43-80-M12-100-D0-*	80	M 12	100	13	3	12	-	2	15	17	20	260
GN 43-80-M12-100-D1-*	80	M 12	100	13	3	12	-	2	15	17	20	270
GN 43-80-M12-100-D3-*	80	M 12	100	13	3	12	5	2	15	17	20	300
GN 43-80-M12-125-D0-*	80	M 12	125	13	3	12	-	2	15	17	20	270
GN 43-80-M12-125-D1-*	80	M 12	125	13	3	12	-	2	15	17	20	280
GN 43-80-M12-125-D3-*	80	M 12	125	13	3	12	5	2	15	17	20	320

Weight Version S

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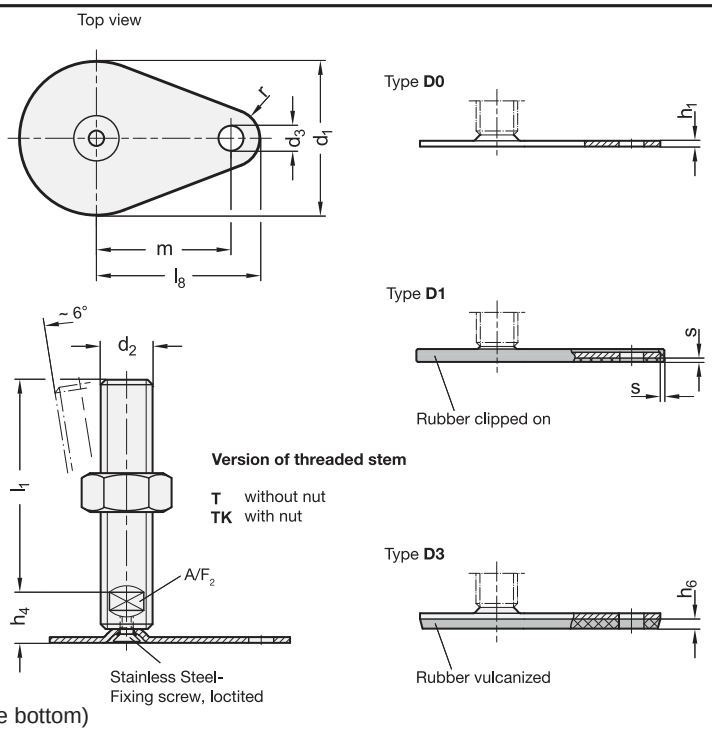
GN 43 | Stainless Steel-Levelling feet



*Complete with version of the Levelling feet (Wrench flat at the bottom)

T without nut

TK with nut

GN 43-T/TK

STAINLESS STEEL

Description	d1	d2	l1	d3	h1	h4	h6	s	r	A/F 2	Static load in kN	⚖
GN 43-50-M16-75-D0-*	50	M 16	75	13	2.5	17	-	2	15	12	14	168
GN 43-50-M16-75-D1-*	50	M 16	75	13	2.5	17	-	2	15	12	14	177
GN 43-50-M16-75-D3-*	50	M 16	75	13	2.5	17	4	2	15	12	14	181
GN 43-50-M16-100-D0-*	50	M 16	100	13	2.5	17	-	2	15	12	14	200
GN 43-50-M16-100-D1-*	50	M 16	100	13	2.5	17	-	2	15	12	14	210
GN 43-50-M16-100-D3-*	50	M 16	100	13	2.5	17	4	2	15	12	14	220
GN 43-50-M16-125-D0-*	50	M 16	125	13	2.5	17	-	2	15	12	14	233
GN 43-50-M16-125-D1-*	50	M 16	125	13	2.5	17	-	2	15	12	14	242
GN 43-50-M16-125-D3-*	50	M 16	125	13	2.5	17	4	2	15	12	14	246
GN 43-50-M16-150-D0-*	50	M 16	150	13	2.5	17	-	2	15	12	14	265
GN 43-50-M16-150-D1-*	50	M 16	150	13	2.5	17	-	2	15	12	14	274
GN 43-50-M16-150-D3-*	50	M 16	150	13	2.5	17	4	2	15	12	14	278
GN 43-50-M16-200-D0-*	50	M 16	200	13	2.5	17	-	2	15	12	14	297
GN 43-50-M16-200-D1-*	50	M 16	200	13	2.5	17	-	2	15	12	14	300
GN 43-50-M16-200-D3-*	50	M 16	200	13	2.5	17	4	2	15	12	14	317
GN 43-60-M16-75-D0-*	60	M 16	75	13	2.5	17	-	2	15	12	16	185
GN 43-60-M16-75-D1-*	60	M 16	75	13	2.5	17	-	2	15	12	16	196
GN 43-60-M16-75-D3-*	60	M 16	75	13	2.5	17	4.5	2	15	12	16	206
GN 43-60-M16-100-D0-*	60	M 16	100	13	2.5	17	-	2	15	12	16	218
GN 43-60-M16-100-D1-*	60	M 16	100	13	2.5	17	-	2	15	12	16	229
GN 43-60-M16-100-D3-*	60	M 16	100	13	2.5	17	4.5	2	15	12	16	239
GN 43-60-M16-125-D0-*	60	M 16	125	13	2.5	17	-	2	15	12	16	260
GN 43-60-M16-125-D1-*	60	M 16	125	13	2.5	17	-	2	15	12	16	261
GN 43-60-M16-125-D3-*	60	M 16	125	13	2.5	17	4.5	2	15	12	16	271
GN 43-60-M16-150-D0-*	60	M 16	150	13	2.5	17	-	2	15	12	16	282
GN 43-60-M16-150-D1-*	60	M 16	150	13	2.5	17	-	2	15	12	16	293
GN 43-60-M16-150-D3-*	60	M 16	150	13	2.5	17	4.5	2	15	12	16	303
GN 43-60-M16-200-D0-*	60	M 16	200	13	2.5	17	-	2	15	12	16	625
GN 43-60-M16-200-D1-*	60	M 16	200	13	2.5	17	-	2	15	12	16	636
GN 43-60-M16-200-D3-*	60	M 16	200	13	2.5	17	4.5	2	15	12	16	646
GN 43-80-M16-75-D0-*	80	M 16	75	13	3	18	-	2	15	12	20	267
GN 43-80-M16-75-D1-*	80	M 16	75	13	3	18	-	2	15	12	20	284
GN 43-80-M16-75-D3-*	80	M 16	75	13	3	18	5	2	15	12	20	308
GN 43-80-M16-100-D0-*	80	M 16	100	13	3	18	-	2	15	12	20	309
GN 43-80-M16-100-D1-*	80	M 16	100	13	3	18	-	2	15	12	20	317
GN 43-80-M16-100-D3-*	80	M 16	100	13	3	18	5	2	15	12	20	350

GN 43-T/TK

STAINLESS STEEL

Description	d1	d2	l1	d3	h1	h4	h6	s	r	A/F 2	Static load in kN	⚖
GN 43-80-M16-125-D0-*	80	M 16	125	13	3	18	-	2	15	12	20	350
GN 43-80-M16-125-D1-*	80	M 16	125	13	3	18	-	2	15	12	20	370
GN 43-80-M16-125-D3-*	80	M 16	125	13	3	18	5	2	15	12	20	373
GN 43-80-M16-150-D0-*	80	M 16	150	13	3	18	-	2	15	12	20	370
GN 43-80-M16-150-D1-*	80	M 16	150	13	3	18	-	2	15	12	20	381
GN 43-80-M16-150-D3-*	80	M 16	150	13	3	18	5	2	15	12	20	400
GN 43-80-M16-200-D0-*	80	M 16	200	13	3	18	-	2	15	12	20	430
GN 43-80-M16-200-D1-*	80	M 16	200	13	3	18	-	2	15	12	20	440
GN 43-80-M16-200-D3-*	80	M 16	200	13	3	18	5	2	15	12	20	450
GN 43-80-M20-75-D0-*	80	M 20	75	13	3	19	-	2	15	15	20	300
GN 43-80-M20-75-D1-*	80	M 20	75	13	3	19	-	2	15	15	20	340
GN 43-80-M20-75-D3-*	80	M 20	75	13	3	19	5	2	15	15	20	362
GN 43-80-M20-100-D0-*	80	M 20	100	13	3	19	-	2	15	15	20	382
GN 43-80-M20-100-D1-*	80	M 20	100	13	3	19	-	2	15	15	20	399
GN 43-80-M20-100-D3-*	80	M 20	100	13	3	19	5	2	15	15	20	421
GN 43-80-M20-125-D0-*	80	M 20	125	13	3	19	-	2	15	15	20	500
GN 43-80-M20-125-D1-*	80	M 20	125	13	3	19	-	2	15	15	20	449
GN 43-80-M20-125-D3-*	80	M 20	125	13	3	19	5	2	15	15	20	471
GN 43-80-M20-150-D0-*	80	M 20	150	13	3	19	-	2	15	15	20	500
GN 43-80-M20-150-D1-*	80	M 20	150	13	3	19	-	2	15	15	20	500
GN 43-80-M20-150-D3-*	80	M 20	150	13	3	19	5	2	15	15	20	522
GN 43-80-M20-200-D0-*	80	M 20	200	13	3	19	-	2	15	15	20	600
GN 43-80-M20-200-D1-*	80	M 20	200	13	3	19	-	2	15	15	20	600
GN 43-80-M20-200-D3-*	80	M 20	200	13	3	19	5	2	15	15	20	622
GN 43-80-M24-100-D0-*	80	M 24	100	13	3	22	-	2	15	18	22	490
GN 43-80-M24-100-D1-*	80	M 24	100	13	3	22	-	2	15	18	22	507
GN 43-80-M24-100-D3-*	80	M 24	100	13	3	22	5	2	15	18	22	527
GN 43-80-M24-125-D0-*	80	M 24	125	13	3	22	-	2	15	18	22	570
GN 43-80-M24-125-D1-*	80	M 24	125	13	3	22	-	2	15	18	22	587
GN 43-80-M24-125-D3-*	80	M 24	125	13	3	22	5	2	15	18	22	607
GN 43-80-M24-150-D0-*	80	M 24	150	13	3	22	-	2	15	18	22	636
GN 43-80-M24-150-D1-*	80	M 24	150	13	3	22	-	2	15	18	22	653
GN 43-80-M24-150-D3-*	80	M 24	150	13	3	22	5	2	15	18	22	673
GN 43-80-M24-200-D0-*	80	M 24	200	13	3	22	-	2	15	18	22	782
GN 43-80-M24-200-D1-*	80	M 24	200	13	3	22	-	2	15	18	22	799
GN 43-80-M24-200-D3-*	80	M 24	200	13	3	22	5	2	15	18	22	819

Weight Version T

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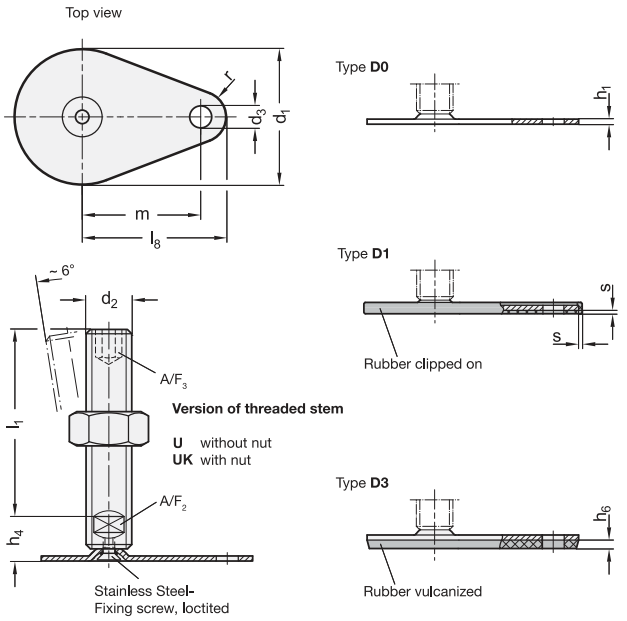

*Complete with version of the Levelling feet (Hexagon socket at the top / Wrench at the bottom)

U without nut

UK with nut

GN 43-U/UK

STAINLESS STEEL

Description	d1	d2	l1	d3	h1	h4	h6	s	r	A/F 2	A/F 3	Static load in kN	⚖
GN 43-50-M16-75-D0-*	50	M 16	75	13	2.5	17	-	2	15	12	8	14	200
GN 43-50-M16-75-D1-*	50	M 16	75	13	2.5	17	-	2	15	12	8	14	209
GN 43-50-M16-75-D3-*	50	M 16	75	13	2.5	17	4	2	15	12	8	14	220
GN 43-50-M16-100-D0-*	50	M 16	100	13	2.5	17	-	2	15	12	8	14	230
GN 43-50-M16-100-D1-*	50	M 16	100	13	2.5	17	-	2	15	12	8	14	230
GN 43-50-M16-100-D3-*	50	M 16	100	13	2.5	17	4	2	15	12	8	14	240
GN 43-50-M16-125-D0-*	50	M 16	125	13	2.5	17	-	2	15	12	8	14	260
GN 43-50-M16-125-D1-*	50	M 16	125	13	2.5	17	-	2	15	12	8	14	270
GN 43-50-M16-125-D3-*	50	M 16	125	13	2.5	17	4	2	15	12	8	14	270
GN 43-50-M16-150-D0-*	50	M 16	150	13	2.5	17	-	2	15	12	8	14	289
GN 43-50-M16-150-D1-*	50	M 16	150	13	2.5	17	-	2	15	12	8	14	285
GN 43-50-M16-150-D3-*	50	M 16	150	13	2.5	17	4	2	15	12	8	14	300
GN 43-50-M16-200-D0-*	50	M 16	200	13	2.5	17	-	2	15	12	8	14	361
GN 43-50-M16-200-D1-*	50	M 16	200	13	2.5	17	-	2	15	12	8	14	370
GN 43-50-M16-200-D3-*	50	M 16	200	13	2.5	17	4	2	15	12	8	14	374
GN 43-60-M16-75-D0-*	60	M 16	75	13	2.5	17	-	2	15	12	8	16	210
GN 43-60-M16-75-D1-*	60	M 16	75	13	2.5	17	-	2	15	12	8	16	221
GN 43-60-M16-75-D3-*	60	M 16	75	13	2.5	17	4.5	2	15	12	8	16	222
GN 43-60-M16-100-D0-*	60	M 16	100	13	2.5	17	-	2	15	12	8	16	220
GN 43-60-M16-100-D1-*	60	M 16	100	13	2.5	17	-	2	15	12	8	16	260
GN 43-60-M16-100-D3-*	60	M 16	100	13	2.5	17	4.5	2	15	12	8	16	270
GN 43-60-M16-125-D0-*	60	M 16	125	13	2.5	17	-	2	15	12	8	16	280
GN 43-60-M16-125-D1-*	60	M 16	125	13	2.5	17	-	2	15	12	8	16	256
GN 43-60-M16-125-D3-*	60	M 16	125	13	2.5	17	4.5	2	15	12	8	16	300
GN 43-60-M16-150-D0-*	60	M 16	150	13	2.5	17	-	2	15	12	8	16	300
GN 43-60-M16-150-D1-*	60	M 16	150	13	2.5	17	-	2	15	12	8	16	320
GN 43-60-M16-150-D3-*	60	M 16	150	13	2.5	17	4.5	2	15	12	8	16	320
GN 43-60-M16-200-D0-*	60	M 16	200	13	2.5	17	-	2	15	12	8	16	378
GN 43-60-M16-200-D1-*	60	M 16	200	13	2.5	17	-	2	15	12	8	16	402
GN 43-60-M16-200-D3-*	60	M 16	200	13	2.5	17	4.5	2	15	12	8	16	420
GN 43-80-M16-75-D0-*	80	M 16	75	13	3	18	-	2	15	12	8	20	300
GN 43-80-M16-75-D1-*	80	M 16	75	13	3	18	-	2	15	12	8	20	317
GN 43-80-M16-75-D3-*	80	M 16	75	13	3	18	5	2	15	12	8	20	337
GN 43-80-M16-100-D0-*	80	M 16	100	13	3	18	-	2	15	12	8	20	340
GN 43-80-M16-100-D1-*	80	M 16	100	13	3	18	-	2	15	12	8	20	360
GN 43-80-M16-100-D3-*	80	M 16	100	13	3	18	5	2	15	12	8	20	368

GN 43-U/UK

STAINLESS STEEL

Description	d1	d2	l1	d3	h1	h4	h6	s	r	A/F 2	A/F 3	Static load in kN	⚖
GN 43-80-M16-125-D0-*	80	M 16	125	13	3	18	-	2	15	12	8	20	370
GN 43-80-M16-125-D1-*	80	M 16	125	13	3	18	-	2	15	12	8	20	380
GN 43-80-M16-125-D3-*	80	M 16	125	13	3	18	5	2	15	12	8	20	400
GN 43-80-M16-150-D0-*	80	M 16	150	13	3	18	-	2	15	12	8	20	397
GN 43-80-M16-150-D1-*	80	M 16	150	13	3	18	-	2	15	12	8	20	420
GN 43-80-M16-150-D3-*	80	M 16	150	13	3	18	5	2	15	12	8	20	450
GN 43-80-M16-200-D0-*	80	M 16	200	13	3	18	-	2	15	12	8	20	460
GN 43-80-M16-200-D1-*	80	M 16	200	13	3	18	-	2	15	12	8	20	480
GN 43-80-M16-200-D3-*	80	M 16	200	13	3	18	5	2	15	12	8	20	500
GN 43-80-M20-75-D0-*	80	M 20	75	13	3	18	-	2	15	15	10	20	375
GN 43-80-M20-75-D1-*	80	M 20	75	13	3	18	-	2	15	15	10	20	400
GN 43-80-M20-75-D3-*	80	M 20	75	13	3	18	5	2	15	15	10	20	440
GN 43-80-M20-100-D0-*	80	M 20	100	13	3	18	-	2	15	15	10	20	400
GN 43-80-M20-100-D1-*	80	M 20	100	13	3	18	-	2	15	15	10	20	453
GN 43-80-M20-100-D3-*	80	M 20	100	13	3	18	5	2	15	15	10	20	460
GN 43-80-M20-125-D0-*	80	M 20	125	13	3	18	-	2	15	15	10	20	480
GN 43-80-M20-125-D1-*	80	M 20	125	13	3	18	-	2	15	15	10	20	500
GN 43-80-M20-125-D3-*	80	M 20	125	13	3	18	5	2	15	15	10	20	520
GN 43-80-M20-150-D0-*	80	M 20	150	13	3	18	-	2	15	15	10	20	540
GN 43-80-M20-150-D1-*	80	M 20	150	13	3	18	-	2	15	15	10	20	557
GN 43-80-M20-150-D3-*	80	M 20	150	13	3	18	5	2	15	15	10	20	560
GN 43-80-M20-200-D0-*	80	M 20	200	13	3	18	-	2	15	15	10	20	580
GN 43-80-M20-200-D1-*	80	M 20	200	13	3	18	-	2	15	15	10	20	600
GN 43-80-M20-200-D3-*	80	M 20	200	13	3	18	5	2	15	15	10	20	626
GN 43-80-M24-100-D0-*	80	M 24	100	13	3	21	-	2	15	19	12	22	600
GN 43-80-M24-100-D1-*	80	M 24	100	13	3	21	-	2	15	19	12	22	617
GN 43-80-M24-100-D3-*	80	M 24	100	13	3	21	5	2	15	19	12	22	685
GN 43-80-M24-125-D0-*	80	M 24	125	13	3	21	-	2	15	19	12	22	640
GN 43-80-M24-125-D1-*	80	M 24	125	13	3	21	-	2	15	19	12	22	660
GN 43-80-M24-125-D3-*	80	M 24	125	13	3	21	5	2	15	19	12	22	680
GN 43-80-M24-150-D0-*	80	M 24	150	13	3	21	-	2	15	19	12	22	720
GN 43-80-M24-150-D1-*	80	M 24	150	13	3	21	-	2	15	19	12	22	737
GN 43-80-M24-150-D3-*	80	M 24	150	13	3	21	5	2	15	19	12	22	756
GN 43-80-M24-200-D0-*	80	M 24	200	13	3	21	-	2	15	19	12	22	762
GN 43-80-M24-200-D1-*	80	M 24	200	13	3	21	-	2	15	19	12	22	799
GN 43-80-M24-200-D3-*	80	M 24	200	13	3	21	5	2	15	19	12	22	900

Weight Version U

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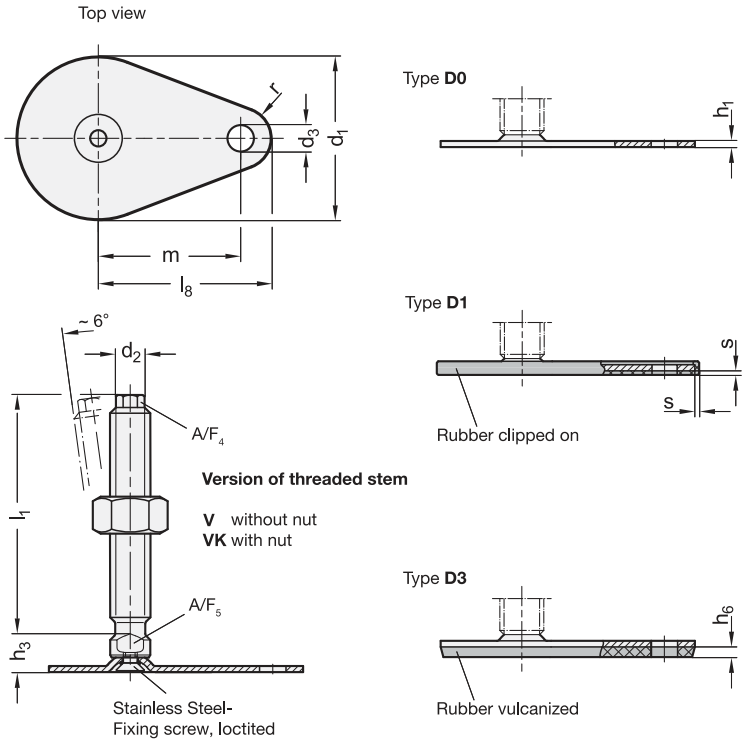

*Complete with version of Levelling feet (External hexagon socket on the top/Wrench flat at the bottom)

V	VK
without nut	with nut

GN 43-V/VK — **STAINLESS STEEL**

Description	d1	d2	l2	d3	h1	h5	h6	s	r	A/F 4	A/F 5	Static load in kN	⚖
GN 43-60-M16-75-D0-*	60	M 16	75	13	2.5	14	-	2	15	10	12	16	178
GN 43-60-M16-75-D1-*	60	M 16	75	13	2.5	14	-	2	15	10	12	16	199
GN 43-60-M16-75-D3-*	60	M 16	75	13	2.5	14	4.5	2	15	10	12	16	205
GN 43-60-M16-100-D0-*	60	M 16	100	13	2.5	14	-	2	15	10	12	16	210
GN 43-60-M16-100-D1-*	60	M 16	100	13	2.5	14	-	2	15	10	12	16	221
GN 43-60-M16-100-D3-*	60	M 16	100	13	2.5	14	4.5	2	15	10	12	16	231
GN 43-60-M16-125-D0-*	60	M 16	125	13	2.5	14	-	2	15	10	12	16	242
GN 43-60-M16-125-D1-*	60	M 16	125	13	2.5	14	-	2	15	10	12	16	253
GN 43-60-M16-125-D3-*	60	M 16	125	13	2.5	14	4.5	2	15	10	12	16	263
GN 43-60-M16-150-D0-*	60	M 16	150	13	2.5	14	-	2	15	10	12	16	275
GN 43-60-M16-150-D1-*	60	M 16	150	13	2.5	14	-	2	15	10	12	16	286
GN 43-60-M16-150-D3-*	60	M 16	150	13	2.5	14	4.5	2	15	10	12	16	296
GN 43-80-M16-75-D0-*	80	M 16	75	13	3	15	-	2	15	10	12	20	131
GN 43-80-M16-75-D1-*	80	M 16	75	13	3	15	-	2	15	10	12	20	148
GN 43-80-M16-75-D3-*	80	M 16	75	13	3	15	5	2	15	10	12	20	172
GN 43-80-M16-100-D0-*	80	M 16	100	13	3	15	-	2	15	10	12	20	292
GN 43-80-M16-100-D1-*	80	M 16	100	13	3	15	-	2	15	10	12	20	309
GN 43-80-M16-100-D3-*	80	M 16	100	13	3	15	5	2	15	10	12	20	333
GN 43-80-M16-125-D0-*	80	M 16	125	13	3	15	-	2	15	10	12	20	324
GN 43-80-M16-125-D1-*	80	M 16	125	13	3	15	-	2	15	10	12	20	341
GN 43-80-M16-125-D3-*	80	M 16	125	13	3	15	5	2	15	10	12	20	365
GN 43-80-M16-150-D0-*	80	M 16	150	13	3	15	-	2	15	10	12	20	357
GN 43-80-M16-150-D1-*	80	M 16	150	13	3	15	-	2	15	10	12	20	374

GN 43-V/VK — **STAINLESS STEEL**

Description	d1	d2	l2	d3	h1	h5	h6	s	r	A/F 4	A/F 5	Static load in kN	⚖
GN 43-80-M16-150-D3-*	80	M 16	150	13	3	15	5	2	15	10	12	20	398
GN 43-80-M20-100-D0-*	80	M 20	100	13	3	15	-	2	15	13	16	20	373
GN 43-80-M20-100-D1-*	80	M 20	100	13	3	15	-	2	15	13	16	20	390
GN 43-80-M20-100-D3-*	80	M 20	100	13	3	15	5	2	15	13	16	20	412
GN 43-80-M20-125-D0-*	80	M 20	125	13	3	15	-	2	15	13	16	20	424
GN 43-80-M20-125-D1-*	80	M 20	125	13	3	15	-	2	15	13	16	20	441
GN 43-80-M20-125-D3-*	80	M 20	125	13	3	15	5	2	15	13	16	20	463
GN 43-80-M20-150-D0-*	80	M 20	150	13	3	15	-	2	15	13	16	20	476
GN 43-80-M20-150-D1-*	80	M 20	150	13	3	15	-	2	15	13	16	20	493
GN 43-80-M20-150-D3-*	80	M 20	150	13	3	15	5	2	15	13	16	20	515
GN 43-80-M20-200-D0-*	80	M 20	200	13	3	15	-	2	15	13	16	20	581
GN 43-80-M20-200-D1-*	80	M 20	200	13	3	15	-	2	15	13	16	20	598
GN 43-80-M20-200-D3-*	80	M 20	200	13	3	15	5	2	15	13	16	20	620
GN 43-80-M24-100-D0-*	80	M 24	100	13	3	18	-	2	15	17	20	22	476
GN 43-80-M24-100-D1-*	80	M 24	100	13	3	18	-	2	15	17	20	22	493
GN 43-80-M24-100-D3-*	80	M 24	100	13	3	18	5	2	15	17	20	22	513
GN 43-80-M24-150-D0-*	80	M 24	150	13	3	18	-	2	15	17	20	22	624
GN 43-80-M24-150-D1-*	80	M 24	150	13	3	18	-	2	15	17	20	22	641
GN 43-80-M24-150-D3-*	80	M 24	150	13	3	18	5	2	15	17	20	22	661
GN 43-80-M24-200-D0-*	80	M 24	200	13	3	18	-	2	15	17	20	22	770
GN 43-80-M24-200-D1-*	80	M 24	200	13	3	18	-	2	15	17	20	22	787
GN 43-80-M24-200-D3-*	80	M 24	200	13	3	18	5	2	15	17	20	22	807

Weight Version V

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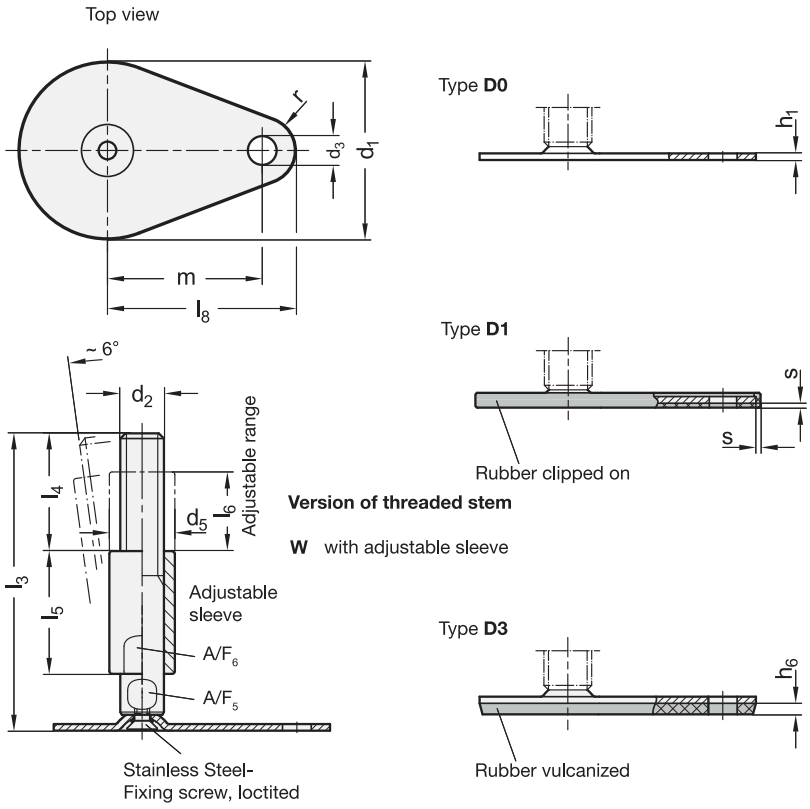

GN 43-W

STAINLESS STEEL

Description	d1	d2	l3	d3	h1	h6	l4	l5	l6	s	r	A/F5	A/F6	Static load in kN	
GN 43-60-M16-110-D0-W	60	M 16	110	13	2.5	-	45	45	29	2	15	12	20	16	300
GN 43-60-M16-110-D1-W	60	M 16	110	13	2.5	-	45	45	29	2	15	12	20	16	314
GN 43-60-M16-110-D3-W	60	M 16	110	13	2.5	4.5	45	45	29	2	15	12	20	16	324
GN 43-60-M16-135-D0-W	60	M 16	135	13	2.5	-	45	45	29	2	15	12	20	16	340
GN 43-60-M16-135-D1-W	60	M 16	135	13	2.5	-	45	45	29	2	15	12	20	16	351
GN 43-60-M16-135-D3-W	60	M 16	135	13	2.5	4.5	45	45	29	2	15	12	20	16	361
GN 43-60-M16-160-D0-W	60	M 16	160	13	2.5	-	45	45	29	2	15	12	20	16	381
GN 43-60-M16-160-D1-W	60	M 16	160	13	2.5	-	45	45	29	2	15	12	20	16	392
GN 43-60-M16-160-D3-W	60	M 16	160	13	2.5	4.5	45	45	29	2	15	12	20	16	402
GN 43-60-M16-185-D0-W	60	M 16	185	13	2.5	-	45	45	29	2	15	12	20	16	421
GN 43-60-M16-185-D1-W	60	M 16	185	13	2.5	-	45	45	29	2	15	12	20	16	432
GN 43-60-M16-185-D3-W	60	M 16	185	13	2.5	4.5	45	45	29	2	15	12	20	16	442
GN 43-80-M16-110-D0-W	80	M 16	110	13	3	-	45	45	29	2	15	12	20	20	385
GN 43-80-M16-110-D1-W	80	M 16	110	13	3	-	45	45	29	2	15	12	20	20	402
GN 43-80-M16-110-D3-W	80	M 16	110	13	3	5	45	45	29	2	15	12	20	20	426
GN 43-80-M16-135-D0-W	80	M 16	135	13	3	-	45	45	29	2	15	12	20	20	400
GN 43-80-M16-135-D1-W	80	M 16	135	13	3	-	45	45	29	2	15	12	20	20	439
GN 43-80-M16-135-D3-W	80	M 16	135	13	3	5	45	45	29	2	15	12	20	20	463
GN 43-80-M16-160-D0-W	80	M 16	160	13	3	-	45	45	29	2	15	12	20	20	430
GN 43-80-M16-160-D1-W	80	M 16	160	13	3	-	45	45	29	2	15	12	20	20	480
GN 43-80-M16-160-D3-W	80	M 16	160	13	3	5	45	45	29	2	15	12	20	20	500
GN 43-80-M16-185-D0-W	80	M 16	185	13	3	-	45	45	29	2	15	12	20	20	503
GN 43-80-M16-185-D1-W	80	M 16	185	13	3	-	45	45	29	2	15	12	20	20	520

GN 43-W

STAINLESS STEEL

Description	d1	d2	l3	d3	h1	h6	l4	l5	l6	s	r	A/F5	A/F6	Static load in kN	
GN 43-80-M16-185-D3-W	80	M 16	185	13	3	5	45	45	29	2	15	12	20	20	544
GN 43-80-M20-134-D0-W	80	M 20	134	13	3	-	56	56	37	2	15	16	24	20	603
GN 43-80-M20-134-D1-W	80	M 20	134	13	3	-	56	56	37	2	15	16	24	20	620
GN 43-80-M20-134-D3-W	80	M 20	134	13	3	5	56	56	37	2	15	16	24	20	642
GN 43-80-M20-159-D0-W	80	M 20	159	13	3	-	56	56	37	2	15	16	24	20	666
GN 43-80-M20-159-D1-W	80	M 20	159	13	3	-	56	56	37	2	15	16	24	20	683
GN 43-80-M20-159-D3-W	80	M 20	159	13	3	5	56	56	37	2	15	16	24	20	705
GN 43-80-M20-184-D0-W	80	M 20	184	13	3	-	56	56	37	2	15	16	24	20	729
GN 43-80-M20-184-D1-W	80	M 20	184	13	3	-	56	56	37	2	15	16	24	20	746
GN 43-80-M20-184-D3-W	80	M 20	184	13	3	5	56	56	37	2	15	16	24	20	768
GN 43-80-M20-234-D0-W	80	M 20	234	13	3	-	56	56	37	2	15	16	24	20	852
GN 43-80-M20-234-D1-W	80	M 20	234	13	3	-	56	56	37	2	15	16	24	20	869
GN 43-80-M20-234-D3-W	80	M 20	234	13	3	5	56	56	37	2	15	16	24	20	892
GN 43-80-M24-159-D0-W	80	M 24	159	13	3	-	67	67	42	2	15	20	30	22	905
GN 43-80-M24-159-D1-W	80	M 24	159	13	3	-	67	67	42	2	15	20	30	22	922
GN 43-80-M24-159-D3-W	80	M 24	159	13	3	5	67	67	42	2	15	20	30	22	942
GN 43-80-M24-209-D0-W	80	M 24	209	13	3	-	67	67	42	2	15	20	30	22	1083
GN 43-80-M24-209-D1-W	80	M 24	209	13	3	-	67	67	42	2	15	20	30	22	1100
GN 43-80-M24-209-D3-W	80	M 24	209	13	3	5	67	67	42	2	15	20	30	22	1120
GN 43-80-M24-259-D0-W	80	M 24	259	13	3	-	67	67	42	2	15	20	30	22	1262
GN 43-80-M24-259-D1-W	80	M 24	259	13	3	-	67	67	42	2	15	20	30	22	1279
GN 43-80-M24-259-D3-W	80	M 24	259	13	3	5	67	67	42	2	15	20	30	22	1360

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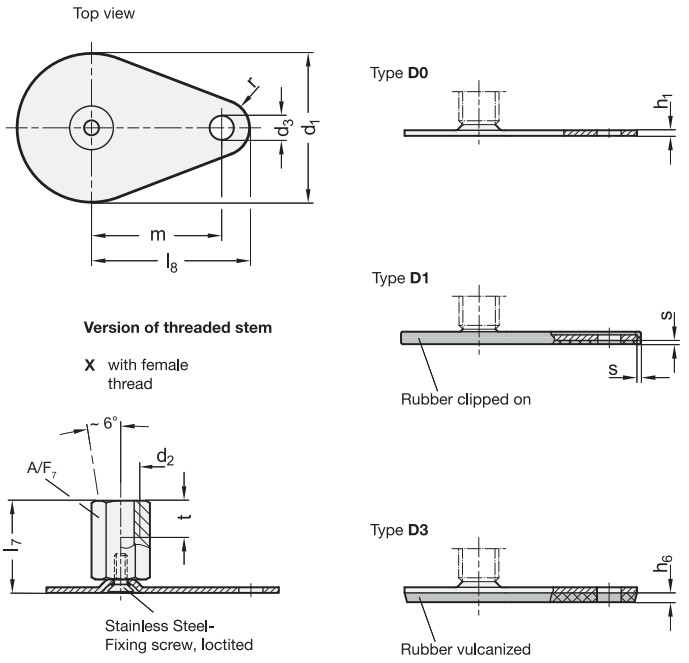
GN 43 | Stainless Steel-Levelling feet



GN 43-X

STAINLESS STEEL

Description	d1	d2	l7	d3	h1	h6	r	A/F 7	t	s	Static load in kN	⚖
GN 43-50-M8-25-D0-X	50	M 8	25	13	2.5	-	15	14	8	2	8	85
GN 43-50-M8-25-D1-X	50	M 8	25	13	2.5	-	15	14	8	2	8	95
GN 43-50-M8-25-D3-X	50	M 8	25	13	2.5	4	15	14	8	2	8	97
GN 43-50-M10-28-D0-X	50	M 10	28	13	2.5	-	15	14	10	2	14	99
GN 43-50-M10-28-D1-X	50	M 10	28	13	2.5	-	15	14	10	2	14	100
GN 43-50-M10-28-D3-X	50	M 10	28	13	2.5	4	15	14	10	2	14	110
GN 43-50-M12-32-D0-X	50	M 12	32	13	2.5	-	15	17	12	2	14	117
GN 43-50-M12-32-D1-X	50	M 12	32	13	2.5	-	15	17	12	2	14	110
GN 43-50-M12-32-D3-X	50	M 12	32	13	2.5	4	15	17	12	2	14	120
GN 43-50-M16-37-D0-X	50	M 16	37	13	2.5	-	15	22	16	2	14	120
GN 43-50-M16-37-D1-X	50	M 16	37	13	2.5	-	15	22	16	2	14	129
GN 43-50-M16-37-D3-X	50	M 16	37	13	2.5	4	15	22	16	2	14	160
GN 43-60-M8-25-D0-X	60	M 8	25	13	2.5	-	15	14	8	2	8	99
GN 43-60-M8-25-D1-X	60	M 8	25	13	2.5	-	15	14	8	2	8	109
GN 43-60-M8-25-D3-X	60	M 8	25	13	2.5	4.5	15	14	8	2	8	120
GN 43-60-M10-28-D0-X	60	M 10	28	13	2.5	-	15	14	10	2	14	100
GN 43-60-M10-28-D1-X	60	M 10	28	13	2.5	-	15	14	10	2	14	110
GN 43-60-M10-28-D3-X	60	M 10	28	13	2.5	4.5	15	14	10	2	14	125
GN 43-60-M12-32-D0-X	60	M 12	32	13	2.5	-	15	17	12	2	16	134
GN 43-60-M12-32-D1-X	60	M 12	32	13	2.5	-	15	17	12	2	16	145
GN 43-60-M12-32-D3-X	60	M 12	32	13	2.5	4.5	15	17	12	2	16	150
GN 43-60-M16-37-D0-X	60	M 16	37	13	2.5	-	15	22	16	2	16	155
GN 43-60-M16-37-D1-X	60	M 16	37	13	2.5	-	15	22	16	2	16	160
GN 43-60-M16-37-D3-X	60	M 16	37	13	2.5	4.5	15	22	16	2	16	170
GN 43-80-M8-26-D0-X	80	M 8	26	13	3	-	15	14	8	2	8	182
GN 43-80-M8-26-D1-X	80	M 8	26	13	3	-	15	14	8	2	8	199
GN 43-80-M8-26-D3-X	80	M 8	26	13	3	5	15	14	8	2	8	222
GN 43-80-M10-29-D0-X	80	M 10	29	13	3	-	15	14	10	2	14	182
GN 43-80-M10-29-D1-X	80	M 10	29	13	3	-	15	14	10	2	14	199
GN 43-80-M10-29-D3-X	80	M 10	29	13	3	5	15	14	10	2	14	230
GN 43-80-M12-32-D0-X	80	M 12	32	13	3	-	15	17	12	2	20	200
GN 43-80-M12-32-D1-X	80	M 12	32	13	3	-	15	17	12	2	20	220
GN 43-80-M12-32-D3-X	80	M 12	32	13	3	5	15	17	12	2	20	240
GN 43-80-M16-38-D0-X	80	M 16	38	13	3	-	15	22	16	2	20	240
GN 43-80-M16-38-D1-X	80	M 16	38	13	3	-	15	22	16	2	20	257
GN 43-80-M16-38-D3-X	80	M 16	38	13	3	5	15	22	16	2	20	300
GN 43-80-M20-45-D0-X	80	M 20	45	13	3	-	15	27	20	2	20	300
GN 43-80-M20-45-D1-X	80	M 20	45	13	3	-	15	27	20	2	20	320
GN 43-80-M20-45-D3-X	80	M 20	45	13	3	5	15	27	20	2	20	340

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Vibration-damping levelling elements

Steel base and stem

BASE
Zinc-plated steel.

DAMPING ELEMENT
NR rubber, hardness 80 Shore A, black colour, matte finish.

LEVELLING PLATE
Zinc-plated steel.

PACKING RING
NBR synthetic rubber O-Ring.

THREADED STEM
Zinc-plated steel, supplied not assembled.

NUT AND WASHER
Zinc-plated steel.

FEATURES
ELESA vibration-damping levelling elements have been designed to damp vibrations, shocks and noises produced by moving bodies or non-balanced vibrating masses of equipment and machines which can cause:
- malfunctioning and reduction of the machine lifespan and/or of the adjacent ones;
- damage to operator's health;
- noise.
- Put the base of the vibration-damping element under the machine and insert the stem through the hole (not threaded) in the frame of the machine (fig.1)
- Turn the square end of the stem to take the levelling plate in contact with the machine thus obtaining the levelling required. Then lock with nut and washer (fig.2)

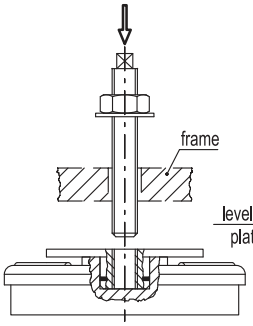


Fig.1

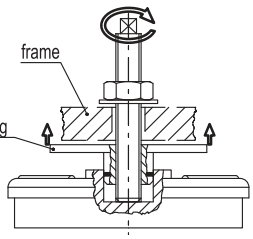
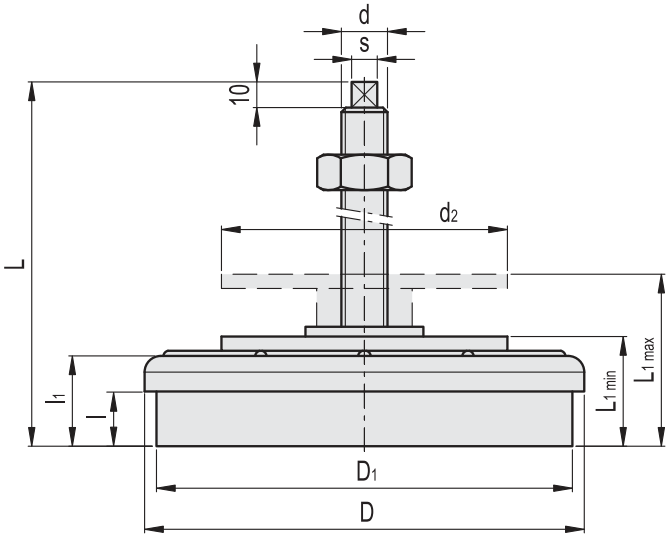


Fig.2



Code	Description	D	d	D1	L	L1 min÷max	l	l1	d2	s	Max. limit static load [N]	Stiffness [N/mm]	Max. deflection [mm]	⚖
415111	LW.A-80-M12x1.25x120	80	M12x1.25	72	133	35÷46	18.5	32	60	7x7	5000	2500	2	530
415121	LW.A-120-M16x1.5x130	120	M16x1.5	109	144	40÷51	23	36.5	80	9x9	10000	4000	2.5	1200
415131	LW.A-160-M20x1.5x170	160	M20x1.5	150	188	50÷63	29	43.5	130	12x12	20000	9000	2.2	2650
415141	LW.A-200-M20x1.5x170	200	M20x1.5	186	198	60÷73	36	54.5	130	12x12	40000	15000	2.7	4500

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TECHNICAL DATA AND GUIDELINES FOR THE CHOICE

1. Basic data required:
- disturbing frequency: the frequency of the disturbing vibration produced by a on-duty machine. In general, it is obtained by the number of rotations of the engine [Hz=r.p.m./60];
- the load applied to every single vibration-damping element [N];
- the isolation degree required [%];
- the deflection value of the vibration-damping element under a given load [mm];
- the rigidity, that is to say the load that applied to the vibration-damping element produces a deflection of 1.0 mm [N/mm].

2. How to choose the vibration-damping element:
- with reference to the diagram for checking the isolation degree, intersect the disturbing frequency value with the isolation degree required (each isolation degree corresponds to a line in the diagram) and define the deflection [in mm];
- divide the load applied onto the vibration-damping element by the deflection value to obtain the required rigidity of the vibration-damping element;
- compare the rigidity obtained with the rigidity shown in the table and choose the vibration-damping element which presents the nearest value (lower) to the calculated one.

3. Check:
- the deflection of the vibration-damping element chosen can be obtained in the graph on the basis of the load;
- intersect the disturbing frequency value with the vibration-damping element deflection value in the diagram to obtain the isolation degree offered by the vibration-damping element chosen;
- compare the obtained value with the isolation degree required.

4. Example:
- Conditions of use: disturbing frequency = 50 Hz (3,000 r.p.m.); load applied to every levelling element = 4,000 N; a 80% isolation degree is required;
- diagram shows that with a 50 Hz disturbing frequency and an isolation degree of 80%, the deflection obtained is 0.6 mm;
- divide the load applied by the deflection obtained to define the rigidity required, which is 4,000/0.6= 6,666 N/mm;
- compare the rigidity value obtained (6,666 N/mm) with the values reported in the table. This value is within the rigidity value reported in the table for LW.A-120 (4,000 N/mm) and LW.A-160 (9,000 N/mm). Choose the vibration-damping element with the lower value that is LW.A-120.
- graph shows that LW.A-120 (4,000 N/mm) deflection is 1mm.
- by intersecting the deflection value with the disturbing frequency of 50 Hz in the diagram, the isolation degree obtained is 90%.

This value is even greater than the required one; your choice has proved to be correct.

Graph

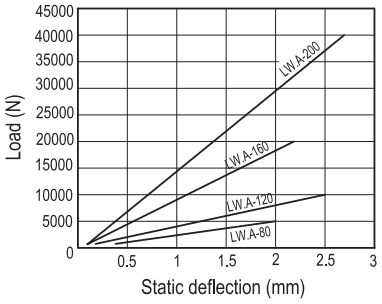
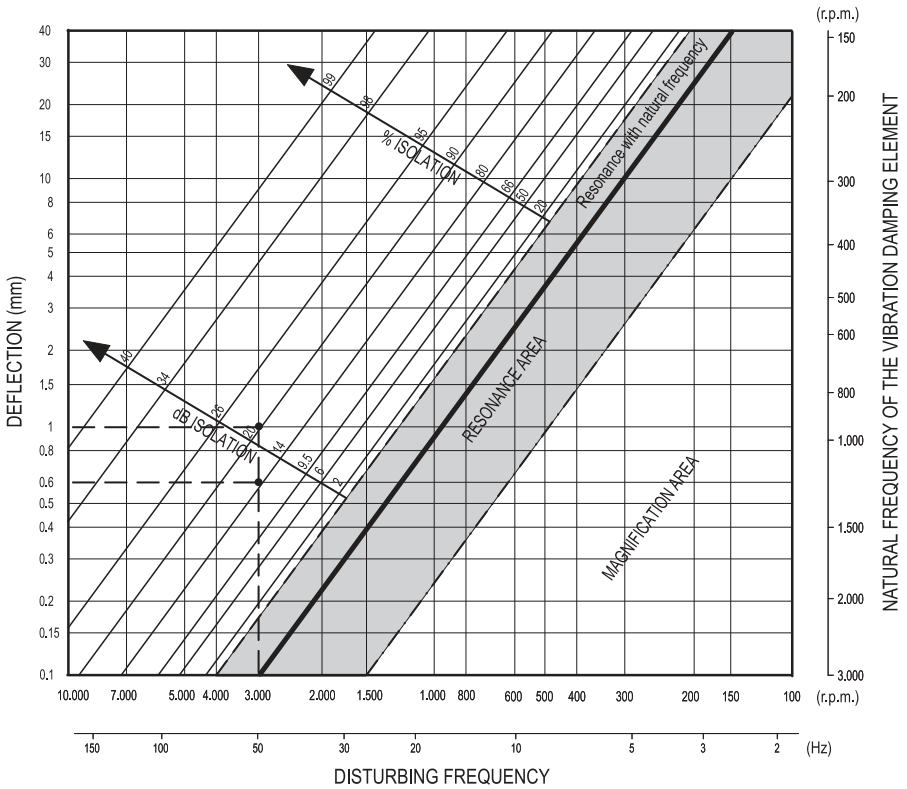


Diagram for checking the isolation degree of the vibration-damping element



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GN 148

Levelling feet with vibration damping element

SPECIFICATION

Types

- Type **A**: with two-hole flange (d_1 = 60 / 90 / 113)
- Type **B**: with four-hole flange (d_1 = 113 / 126)

Identification no.

- No. **1**: without tear-off lock
- No. **2**: with tear-off lock

Vibration damping element
Natural rubber (NR)

vulcanized
temperature resistant up to 80 °C
Hardness Shore A ±5 °

soft* 43
medium 57
hard* 68
* not available from stock, requires a minimum order quantity

Sheet metal
zinc plated, blue passivated

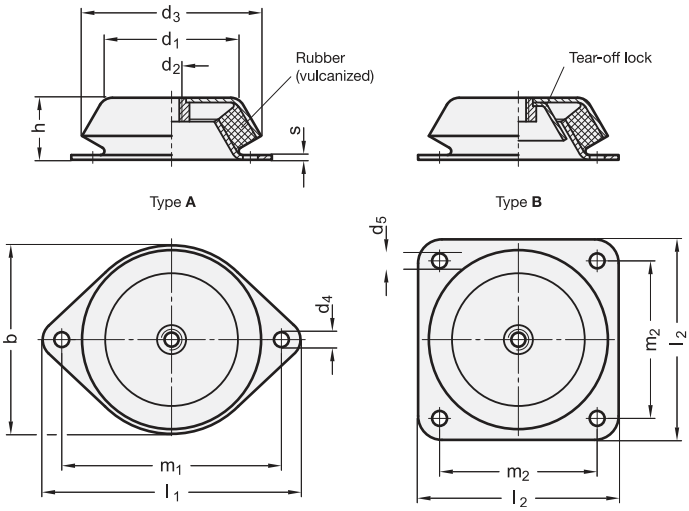
Threaded insert
Steel
zinc plated, blue passivated

ACCESSORY

- Rubber pads GN 148.2 (see page 1307)

INFORMATION

Levelling feet GN 148 are designed for setting up heavy machinery and units with insulation against vibrations.
This has a positive impact on the lifetime of machines and additionally reduces the noise pollution.
The structure is such that horizontal forces are also absorbed. The design with tear-off lock (Type 2) protects the levelling feet from destruction caused by tear-off under excessive tension loads.
The details relating to the load bearing capacity are non-binding recommended values and rule out any liability. They constitute no general warranty of quality and condition. The user must determine from case to case whether a product is suitable for the intended use.



*Complete with Identification no. of the Levelling feet (1 or 2)

1	2
without tear-off lock	with tear-off lock

GN 148

Description	d1	d2	d3	d4	d5	h	s	b	l1	l2	m1	m2	⚖
GN 148-60-M10-A-*-43	60	M 10	78	9	-	30	2	78	128	-	110	-	238
GN 148-60-M10-A-*-57	60	M 10	78	9	-	30	2	78	128	-	110	-	250
GN 148-60-M10-A-*-68	60	M 10	78	9	-	30	2	78	128	-	110	-	245
GN 148-90-M12-A-*-43	90	M 12	106	13	-	39	3	110	170	-	140	-	717
GN 148-90-M12-A-*-57	90	M 12	106	13	-	39	3	110	170	-	140	-	725
GN 148-90-M12-A-*-68	90	M 12	106	13	-	39	3	110	170	-	140	-	730
GN 148-113-M16-A-*-43	113	M 16	150	12.5	-	52	4	150	216	-	184	-	1643
GN 148-113-M16-A-*-57	113	M 16	150	12.5	-	52	4	150	216	-	184	-	1641
GN 148-113-M16-A-*-68	113	M 16	150	12.5	-	52	4	150	216	-	184	-	1713
GN 148-113-M16-B-*-43	113	M 16	150	-	12.5	52	4	-	-	168	-	132	1878
GN 148-113-M16-B-*-57	113	M 16	150	-	12.5	52	4	-	-	168	-	132	1830
GN 148-113-M16-B-*-68	113	M 16	150	-	12.5	52	4	-	-	168	-	132	1870
GN 148-126-M20-B-*-43	126	M 20	177	-	13	63	4	-	-	184	-	150	2613
GN 148-126-M20-B-*-57	126	M 20	177	-	13	63	4	-	-	184	-	150	2623
GN 148-126-M20-B-*-68	126	M 20	177	-	13	63	4	-	-	184	-	150	2680

Weight identification no. 1

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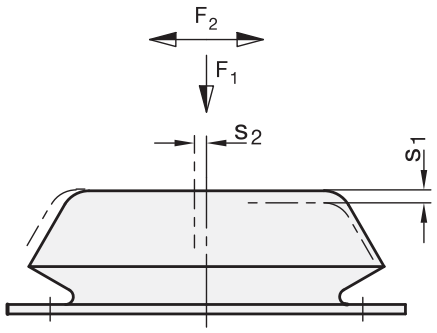
GN 148

Levelling feet with vibration damping element



TECHNICAL INFORMATION (TERMS)

F_1 = static load in vertical direction (pressure)
F_2 = static load in horizontal direction (lateral thrust)
s_1 = Compression in vertical direction (spring excursion) under load thorugh F_1
s_2 = Compression in vertical direction (spring excursion) under load through F_2

Stiffness R:
is the load which causes the damping elements to be compressed by 1 mm (spring rate)

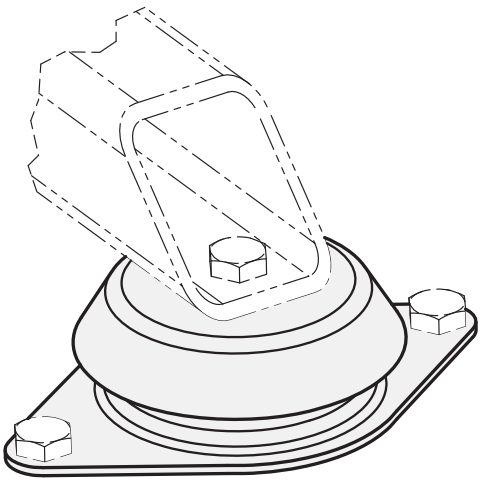
Equation for calculating the stiffness: R = F / S

The table below gives details on the maximum static load F, the maximum rated compression and the resulting stiffness R.
The method shown and the values given below allow the maximum degree of insulation of the vibration to be determined as a factor of the interference frequency.

d1	Hardness in Shore	max. static load F1 in N	Stiffness R1 in N/mm	max. compression s1, in mm	max. static load F2 in N	Stiffness R2 in N/mm	max. compression s2 in mm
60	43*	1100	340	3.2	2300	770	3
60	57	1750	550	3.2	3400	1130	3
60	68*	2800	930	3	4000	1330	3
90	43*	1500	430	3.5	3000	750	4
90	57	2800	800	3.5	5000	1330	3.75
90	68*	4500	1290	3.5	7000	1870	3.75
113	43*	3500	1000	3.5	4500	1290	3.5
113	57	6500	1860	3.5	7500	2140	3.5
113	68*	10000	2860	3.5	11000	3140	3.5
126	43*	7500	2140	3.5	9000	2570	3.5
126	57	12500	3570	3.5	15000	4290	3.5
126	68*	19000	5340	3.5	22500	6430	3.5

* not available from stock, requires a minimum order quantity

EXAMPLE OF APPLICATION



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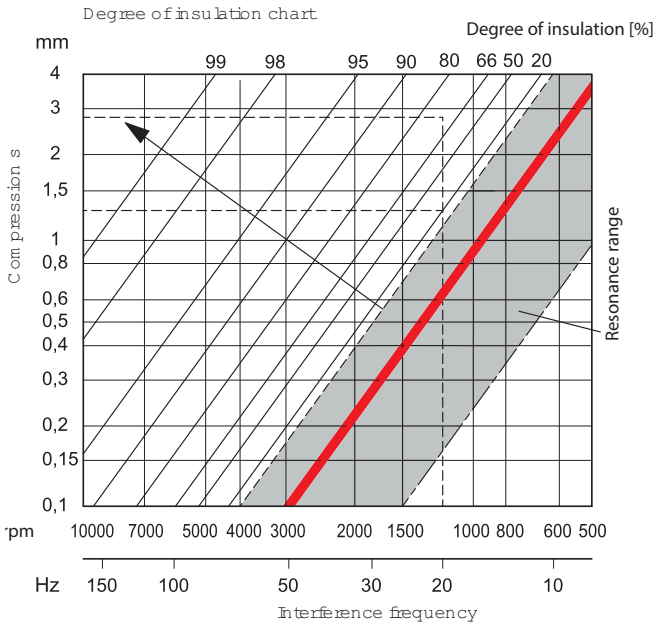

Terms

Interference frequency [Hz]:
is the frequency emanating from a machine, e.g. the machine main shaft speed [rpm].

Static load F [N]:
is the load acting on each vibration-damping element (levelling foot).

Degree of insulation [%]:
is the measure for absorbing the interference frequency (damping).

Compression s [mm]:
is the change in height of the damping element (spring excursion).

Stiffness R [N/mm]:
is the load which causes a damping element to be compressed by 1 mm (spring rate).

Determining the suitable levelling foot and the maximum degree of insulation

First, the static load F for each levelling foot must be determined. For well arranged levelling feet and the resulting even distribution of the load F, the static load is calculated using the following equation:

Weight force of the machine [N] / Number of levelling feet = Static load F [N] / per levelling foot

Once the static load F has been calculated, select a levelling foot from the table. Please note that the static load F should be as close as possible to the static load capacity, but without exceeding it. The associated stiffness R of the selected leg is also shown in the table.
The actual compression is then calculated using the equation below.

Static load F[N] / per levelling foot / Stiffness R [N/mm] = actual compression s [mm]

Starting from the actual compression s calculated, the maximum degree of insulation as factor of the interference frequency can now be read in the above chart.
To optimise the maximum degree of insulation, change the number of feet such that the static load F of each levelling foot is as close as possible below a static load capacity value given in the table. This will increase the compression s which, in turn, improves the degree of insulation.
In general, medium and high frequencies can be very well insulated with an adequate compression.

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GN 148.2

Rubber pads

for levelling feet GN 148

SPECIFICATION

Types

- Type **A**: for two-hole flange (d_1 = 60 / 90 / 113)
- Type **B**: for four-hole flange (d_1 = 113 / 126)

Rubber (NBR)

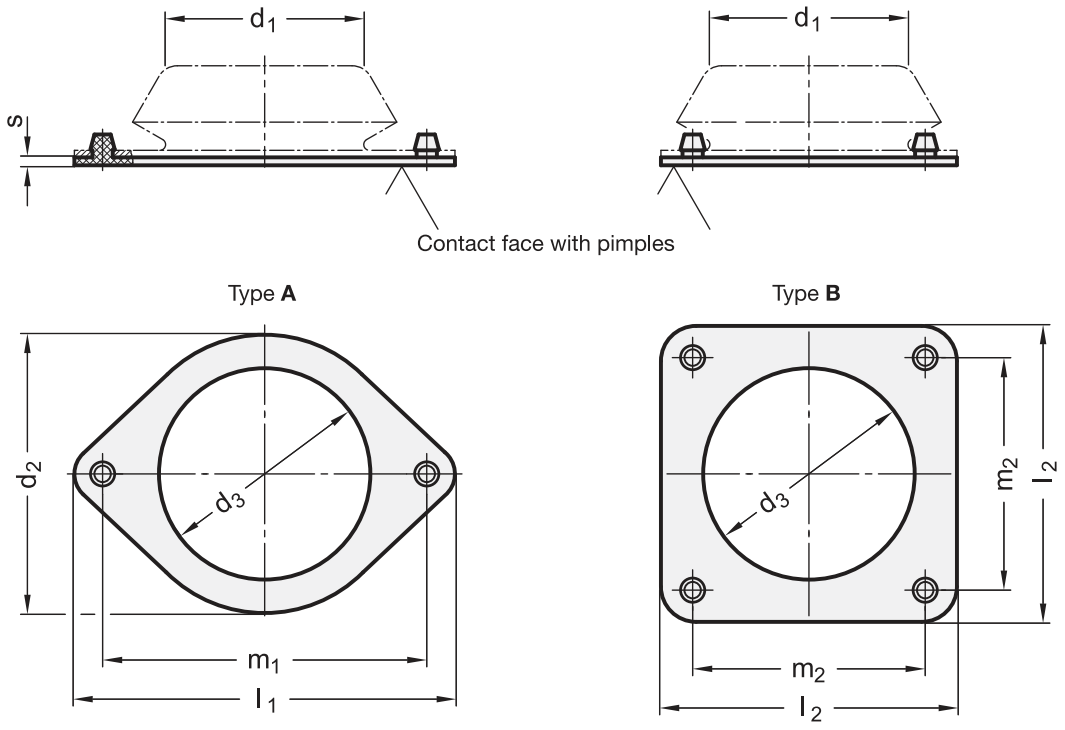
- Hardness 68 Shore A ±5, black
- oil resistant

INFORMATION

Rubber pads GN 148.2 in connection with GN 148 (see page 1304) levelling feet are used for setting up machines and units if no firm bolt connection to the ground is required.
To be fixed to the levelling foot, they are snapped into the attachment bore holes of the flanges. Small pimples at the bottom face of the rubber pads enhance the stability.

TECHNICAL INFORMATION

- Elastomer characteristics (see page A32)



GN 148.2

Description	d1	l1	l2	d2	d3	m1	m2	s	⚖
GN 148.2-128-A	60	128	-	78	65	110	-	3	15
GN 148.2-170-A	90	170	-	110	90	140	-	3	29
GN 148.2-216-A	113	216	-	150	120	184	-	4	55
GN 148.2-168-B	113	-	168	-	120	-	132	4	88
GN 148.2-184-B	126	-	184	-	150	-	150	4	88

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Levelling feet

with vibration damping / female thread

SPECIFICATION

Type

- Type **SV**: with damping element

Steel

- Tensile strength class 5.8
- zinc plated, blue passivated

Damping element
Elastomer (PUR)

- Sylomer SR 450-12
- anti-slip, glued
- grey
- oil resistant
- Operating range form -30 °C up to 70 °C

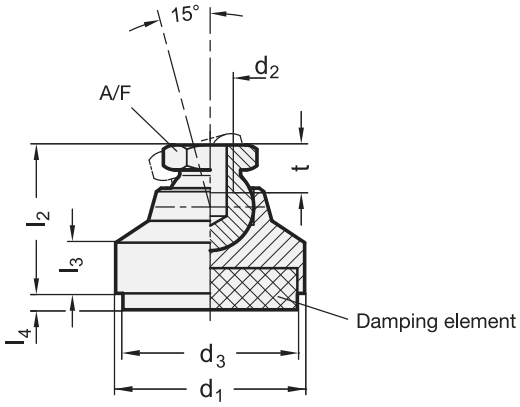
Hexagon nut ISO 4032
Steel zinc plated, blue passivated

INFORMATION

The specified load in the table of the levelling feet GN 342.1 is a recommendation up to which the damping element can be **permanently** subjected.
This static load equals a thrust on the area of 0.4 N/mm^2 at which the damping material reaches its optimum dynamic damping ability. This also takes into account an additional load up to 0.6 N/mm^2 in the event of a dynamic load.
Levelling feet GN 342.1 cannot be disassembled.
Vibration absorption of Levelling feets GN 342.1.

TECHNICAL INFORMATION

- Elastomer characteristics (see page A32)
- Strength values (see page A20)



GN 342.1

Description	d1	d2	d3	l2	l3	l4 Compression in N/mm^2 0	l4 Compression in N/mm^2 0.4	l4 Compression in N/mm^2 0.6	A/F	t	Area damping element in mm^2	Load in N by compression 0.4 N/mm^2	⚖
GN 342.1-32-M10-SV	32	M 10	30	29	11	5.5	3.8	2.7	15	10.5	707	280	65
GN 342.1-40-M12-SV	40	M 12	38	30	9.5	6	4.3	3.3	17	11.5	1134	450	92
GN 342.1-50-M12-SV	50	M 12	48	30.5	9	6.5	4.9	3.9	17	11.5	1809	720	137
GN 342.1-60-M16-SV	60	M 16	58	37.5	10	7	5.5	4.4	24	16	2641	1050	275

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GN 342.2

Levelling feet

with vibration damping / threaded stud

SPECIFICATION

Type

- Type **SV**: with damping element

Steel

- Tensile strength class 5.8
- zinc plated, blue passivated

Damping element
Elastomer (PUR)

- Sylomer SR 450-12
- anti-slip, glued
- grey
- oil resistant
- Operating range form -30 °C up to 70 °C

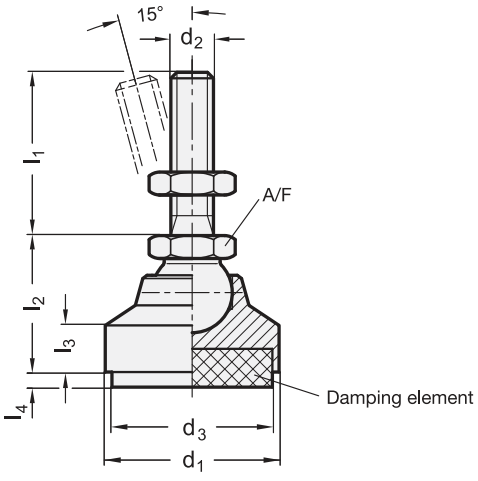
Hexagon nut ISO 4032
Steel zinc plated, blue passivated

INFORMATION

The specified load in the above table of the levelling feet GN 342.2 is a recommendation up to which the damping element can be **permanently** subjected.
This static load equals a thrust on the area of 0.4 N/mm^2 at which the damping material reaches its optimum dynamic damping ability. This also takes into account an additional load up to 0.6 N/mm^2 in the event of a dynamic load.
Levelling feet GN 342.1 cannot be disassembled.

TECHNICAL INFORMATION

- Elastomer characteristics (see page A32)
- Strength values (see page A20)



GN 342.2

Description	d1	d2	l1	d3	l2	l3	l4 Compression in N/mm^2 0	l4 Compression in N/mm^2 0.4	l4 Compression in N/mm^2 0.6	A/F	Area damping element in mm^2	Load in N by compression 0.4 N/mm^2	⚖
GN 342.2-32-M10-50-SV	32	M 10	50	30	29	11	5.5	3.8	2.7	15	707	280	107
GN 342.2-32-M10-80-SV	32	M 10	80	30	29	11	5.5	3.8	2.7	15	707	280	122
GN 342.2-40-M12-63-SV	40	M 12	63	38	30	9.5	6	4.3	3.3	17	1134	450	170
GN 342.2-40-M12-100-SV	40	M 12	100	38	30	9.5	6	4.3	3.3	17	1134	450	189
GN 342.2-50-M12-63-SV	50	M 12	63	48	30.5	9	6.5	4.9	3.9	17	1809	720	208
GN 342.2-50-M12-100-SV	50	M 12	100	48	30.5	9	6.5	4.9	3.9	17	1809	720	233
GN 342.2-60-M16-80-SV	60	M 16	80	58	37.5	10	7	5.5	4.4	24	2641	1050	430
GN 342.2-60-M16-125-SV	60	M 16	125	58	37.5	10	7	5.5	4.4	24	2641	1050	495

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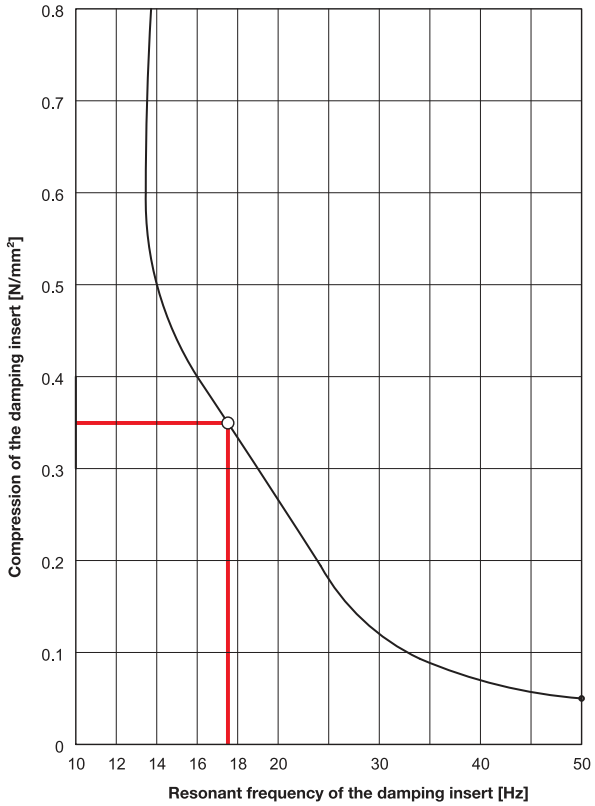
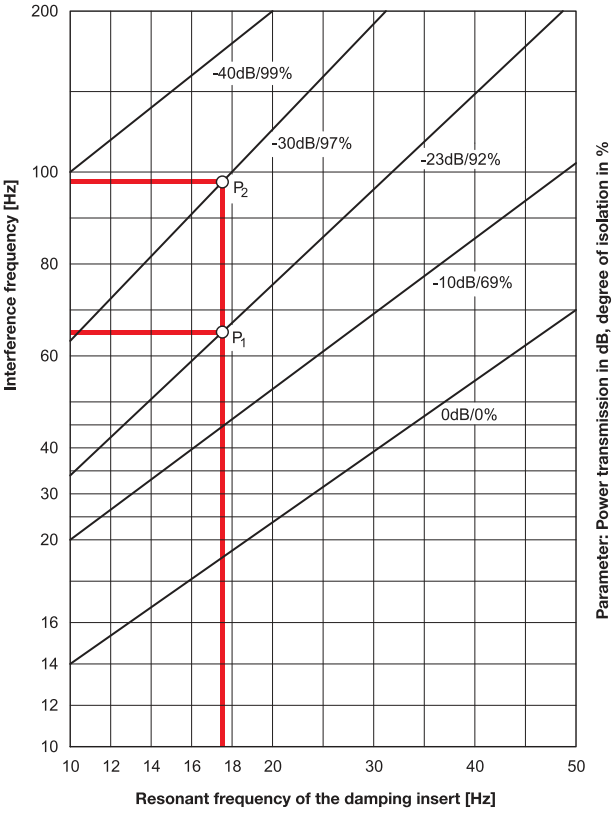


Vibration absorption - Performance graph

When using levelling feets GN 342.1 (see page 1308) and GN 342.2 the following differentiation in vibration absorption is made:
Active vibrations:
Vibrations transmitted to surroundings or associated equipment from working machinery for example.
Passive vibrations:
Vibrations transmitted to equipment or parts from vibrating surroundings or bases.
The efficiency of vibration absorption is dependent upon the interference frequency of the vibration to be absorbed as well as on the resonant frequency of the damping element itself.
A vibration absorbing effect is only achieved when the interference frequency is greater than √2-times the resonant frequency of the damping element. The greater the difference [Δ] between the two, the better the damping effect.
The resonant frequency of the damping pad is dependant upon type (composition) of the material cross section and the static load.
The graphs on the left show all the required data of the standard material (SR 450-12) of the damping element. Damping elements with other absorption properties are available on request.



Example

Assume a load per levelling foot: 400 N
Compression levelling foot $d_1 = 32$
400 N / 707 mm^2 = 0.57 N/mm^2
Compression levelling foot $d_1 = 40$
400 N / 11340 mm^2= 0.34 N/mm^2
Therefore levelling feet with $d_1 = 40$, that exert a pressure of 0.4 N/mm^2 should be preferred.
The above graph shows:
Resonant frequency with compression 0.34 N/mm^2:17.5 Hz
The lower graph shows:
Degree of isolation at 66 Hz interference frequency (P1): 92 %
Degree of isolation at 98 Hz interference frequency (P2): 97 %
At approximately 200 Hz interference frequency the degree of isolation is 100 %.

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GN 6311.3

Foot plates

for grub screws DIN 6332 / tommy screws DIN 6304 / DIN 6306

SPECIFICATION

Types

- Type **OS**: without plastic cap
- Type **KS**: with plastic cap, gliding
- Type **KR**: with plastic cap, non-gliding

Steel
zinc plated, blue passivated

Snap ring
Spring steel wire
zinc plated, blue passivated

Plastic caps

Type KS
Technopolymer (Polyacetal POM)
white (natural colour) RAL 9001

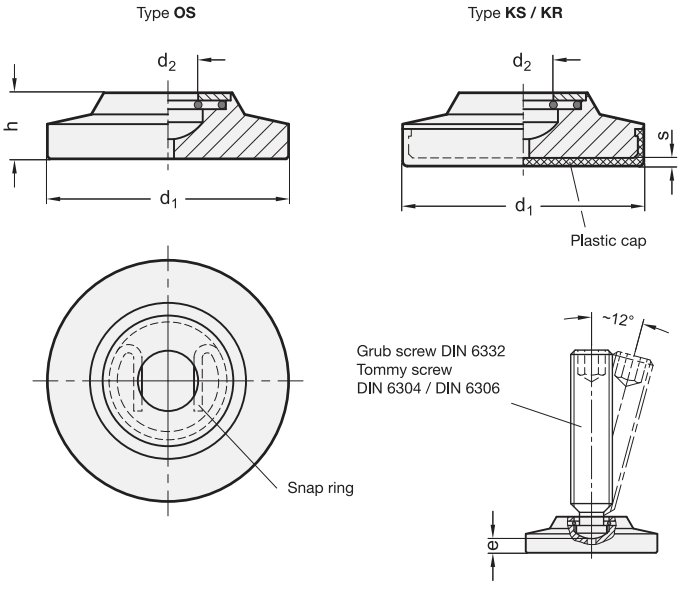
Type KR
Elastomer (TPE)
78 Shore A ≈
black

INFORMATION

Foot plates GN 6311.3 are used in connection with screws with pivots (grub screws DIN 6332, see page 912), tommy screws DIN 6304 (see page 407), DIN 6306 (see page 409).
Owing to the special shape of immovable retaining ring, the foot plate is easily plugged into and removed from, the pivot.

TECHNICAL INFORMATION

- Plastic characteristics (see page A2)
- Elastomer characteristics (see page A32)



GN 6311.3

Description	d1	h	d2 +0.2	e ≈	s	Grub screw DIN 6332	⚖
GN 6311.3-50-11,5-KR	50	11.5	9.2	2.5	1.7	M 12	115
GN 6311.3-50-11,5-KS	50	11.5	9.2	2.5	1.7	M 12	126
GN 6311.3-50-11,5-OS	50	11.5	9.2	2.5	-	M 12	133
GN 6311.3-50-13,5-KR	50	13.5	12.5	4	1.7	M 16	122
GN 6311.3-50-13,5-KS	50	13.5	12.5	4	1.7	M 16	133
GN 6311.3-50-13,5-OS	50	13.5	12.5	4	-	M 16	140
GN 6311.3-60-13,5-KR	60	13.5	12.5	4	1.7	M 16	197
GN 6311.3-60-13,5-KS	60	13.5	12.5	4	1.7	M 16	217
GN 6311.3-60-13,5-OS	60	13.5	12.5	4	-	M 16	227
GN 6311.3-60-15,5-KR	60	15.5	16.5	4.3	1.7	M 20	207
GN 6311.3-60-15,5-KS	60	15.5	16.5	4.3	1.7	M 20	227
GN 6311.3-60-15,5-OS	60	15.5	16.5	4.3	-	M 20	237

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GN 6311.4

RoHS

Levelling feet

Steel, zinc plated

SPECIFICATION

Types

- Type **OS**: without plastic cap
- Type **KS**: with plastic cap, gliding
- Type **KR**: with plastic cap, non-gliding

Steel

- Tensile strength class 5.8
- zinc plated, blue passivated

Plastic caps:

Type KS
Technopolymer (Polyacetal POM)
white (natural colour) RAL 9001

Type KR
Elastomer (TPE)
78 Shore A ≈, black

INFORMATION

Levelling feet GN 6311.4 are normally used when a thread is present at the machine side to adjust the height.
The pin diameter d_3 is smaller than the core diameter of the thread, with the effect that the screw can be turned in at the pin. The pressure pin is easily inserted into the plate, with the retaining ring ensuring that the assembly is secure in axial direction.
The static load of the levelling feet GN 6311.4 is limited by the laod capacity of the grub screw (Tensile strength class 5.8). The static load values (only valid for Type OS/KS) in the table refer to a net vertical load in relation to the ball socket. Under normal operating conditions side loading or angular loading is not uncommon and the load capacity would be considerable reduced which must be taken into consideration.

TECHNICAL INFORMATION

- Elastomer characteristics (see page A32)
- Plastic characteristics (see page A2)
- Strength values (see page A20)

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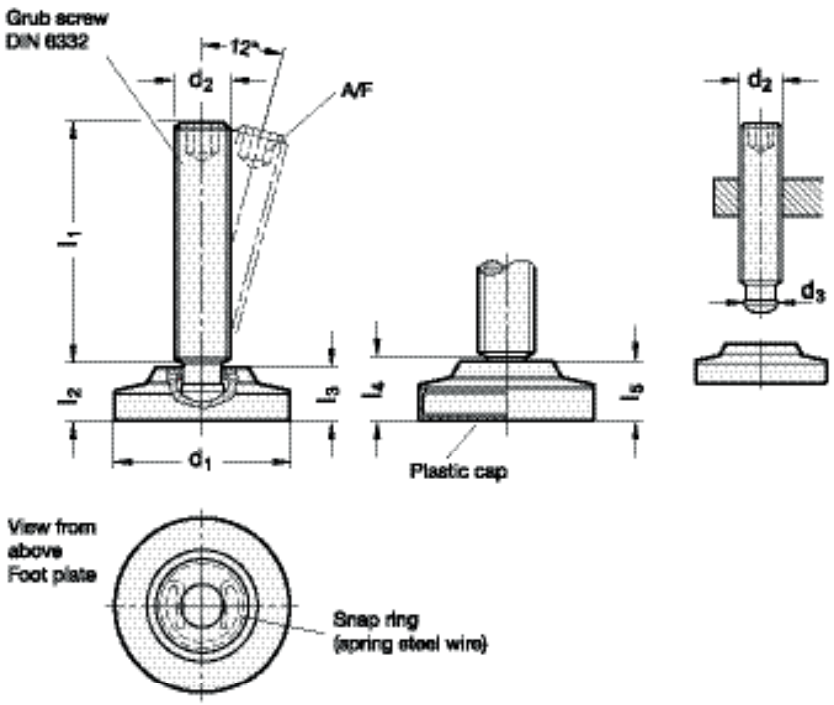
GN 6311.4 | Levelling feet



*Complete with Type index of the Levelling feet

OS **KS** **KR**

GN 6311.4

Description	d1	d2	l1 ≈	d3	l2	l3	l4	l5	A/F	Static load in kN	⚖
GN 6311.4-50-M10-37-*	50	M 10	37	8	12.5	11.5	14	13	5	13	140
GN 6311.4-50-M10-47*	50	M 10	47	8	12.5	11.5	14	13	5	13	140
GN 6311.4-50-M10-57-*	50	M 10	57	8	12.5	11.5	14	13	5	13	140
GN 6311.4-50-M10-72-*	50	M 10	72	8	12.5	11.5	14	13	5	13	140
GN 6311.4-50-M12-41-*	50	M 12	41	8	12.5	11.5	14	13	6	13	140
GN 6311.4-50-M12-51-*	50	M 12	51	8	12.5	11.5	14	13	6	13	160
GN 6311.4-50-M12-61-*	50	M 12	61	8	12.5	11.5	14	13	6	13	160
GN 6311.4-50-M12-71-*	50	M 12	71	8	12.5	11.5	14	13	6	13	150
GN 6311.4-50-M12-91-*	50	M 12	91	8	12.5	11.5	14	13	6	13	180
GN 6311.4-50-M16-59-*	50	M 16	59	12	14.5	13.5	16	15	8	30	200
GN 6311.4-50-M16-69-*	50	M 16	69	12	14.5	13.5	16	15	8	30	220
GN 6311.4-50-M16-89-*	50	M 16	89	12	14.5	13.5	16	15	8	30	240
GN 6311.4-50-M16-114-*	50	M 16	114	12	14.5	13.5	16	15	8	30	280
GN 6311.4-60-M16-59-*	60	M 16	59	12	14.5	13.5	16	15	8	30	282
GN 6311.4-60-M16-69-*	60	M 16	69	12	14.5	13.5	16	15	8	30	280
GN 6311.4-60-M16-89-*	60	M 16	89	12	14.5	13.5	16	15	8	30	320
GN 6311.4-60-M16-114-*	60	M 16	114	12	14.5	13.5	16	15	8	30	340
GN 6311.4-60-M20-78-*	60	M 20	78	15.5	16.5	15.5	18	17	10	50	380
GN 6311.4-60-M20-88-*	60	M 20	88	15.5	16.5	15.5	18	17	10	50	396
GN 6311.4-60-M20-113-*	60	M 20	113	15.5	16.5	15.5	18	17	10	50	450
GN 6311.4-60-M20-138-*	60	M 20	138	15.5	16.5	15.5	18	17	10	50	440

Weight OS

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GN 355

Levelling parts

Steel / Stainless Steel

SPECIFICATION

Version in Steel ST
blackened

Spherical washer
Steel, case-hardened

Version in Stainless Steel NI
AISI 303

Spherical washer
AISI 303

Cylinder head screw DIN 912
Stainless Steel A2-70

Washer DIN 433
Stainless Steel AISI 304

INFORMATION

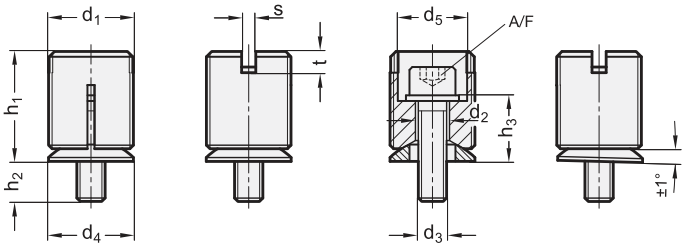
Levelling parts GN 355 are used for levelling and adjustment in machines and equipment.
They consist of a levelling screw, a cylinder screw with disk and a spherical washer. After making the adjustment using the assembly tools GN 355.1 (see page 1315) available as accessory, the screw is tightened firmly causing the levelling screw and the spherical washer DIN 6319 underneath to spread and is so secured against twisting in the taphole.
The values for w and x given in the table and for the static load capacity are to be seen as reference values which may differ depending on the prevailing situation. In general, they do not constitute a warranty of condition. The user must determine whether the product is suitable for the intended purpose.

ACCESSORY

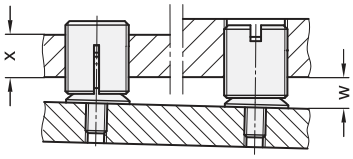
- Assembly tools GN 355.1 (Code no. see table)

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)



Application example



GN 355

Description	d1	d2	d3	d4	d5	h1	h2	h3	s	A/F	t	w max.	x min.	Static load F in kN	Code no. assembly tool	⚖
GN 355-M12x1-4,5-ST	M 12 x 1	4.5	M 4	12	9.1	19.1	10.9	9.1	2	3	3	8	8	4.4	GN 355.1-12	20
GN 355-M18x1-7-ST	M 18 x 1	7	M 6	17	12.6	26.8	10.1	14.9	2	5	3	13	12	10	GN 355.1-18	36
GN 355-M24x1,5-9-ST	M 24 x 1.5	9	M 8	24	19.6	31.1	11.3	18.7	4	6	6	17	16	29.5	GN 355.1-24	68
GN 355-M30x1,5-13-ST	M 30 x 1.5	13	M 12	30	25.6	32.6	20.4	19.6	4	10	6	17	20	43	GN 355.1-30	130
GN 355-M36x1,5-18-ST	M 36 x 1.5	18	M 16	36	31.6	45.7	15.8	24.2	4	14	6	21	24	91	GN 355.1-36	228

GN 355-NI STAINLESS STEEL

Description	d1	d2	d3	d4	d5	h1	h2	h3	s	A/F	t	w max.	x min.	Static load F in kN	Code no. assembly tool	⚖
GN 355-M12x1-4,5-NI	M 12 x 1	4.5	M 4	12	9.1	19.1	10.9	9.1	2	3	3	8	8	4.4	GN 355.1-12	21
GN 355-M18x1-7-NI	M 18 x 1	7	M 6	17	12.6	26.8	10.1	14.9	2	5	3	13	12	10	GN 355.1-18	36
GN 355-M24x1,5-9-NI	M 24 x 1.5	9	M 8	24	19.6	31.1	11.3	18.7	4	6	6	17	16	29.5	GN 355.1-24	63
GN 355-M30x1,5-13-NI	M 30 x 1.5	13	M 12	30	25.6	32.6	20.4	19.6	4	10	6	17	20	43	GN 355.1-30	124
GN 355-M36x1,5-18-NI	M 36 x 1.5	18	M 16	36	31.6	45.7	15.8	24.2	4	14	6	21	24	91	GN 355.1-36	227

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GN 355.1

Assembly tools

for levelling parts GN 355

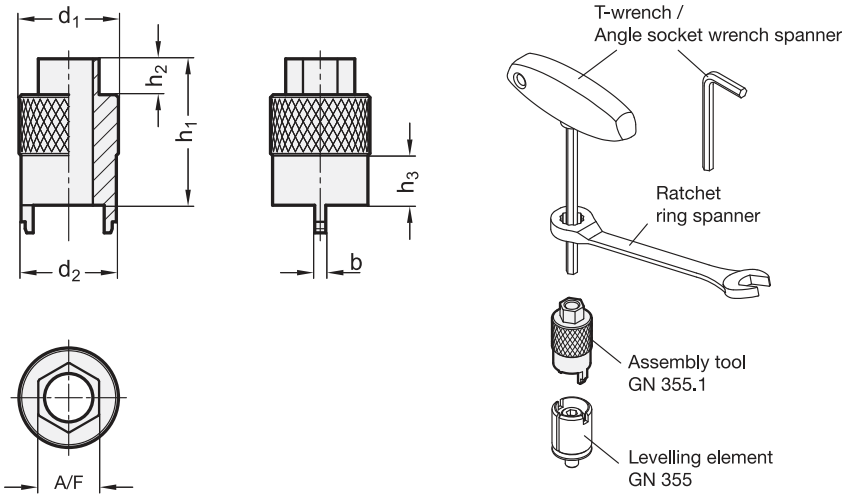
SPECIFICATION

Steel

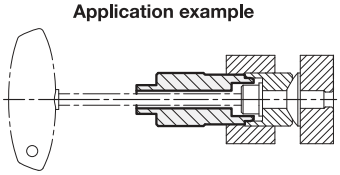
- surface hardened
- blackened

INFORMATION

GN 355.1 assembly tools serve to adjust GN 355 levelling elements. They are used in connection with a T-wrench or a hexagonal angle socket spanner. To ease levelling, the top end of the assembly tool has an external hexagon head which is used for turning the levelling screw with a ring spanner, ideally with a ratchet function.
For adjustment, first use the assembly tool to turn the levelling screw of the levelling element into the desired position and at the same time tighten the screw to secure the levelling element. To ensure that the setting found does not change, the assembly tool may be used to counterhold.



Application example



GN 355.1

Description	d1	b	d2	h1	h2	h3	A/F	Max. permissible torque in Nm	⚖
GN 355.1-12	12	2	11	35	7	6	8	20	22
GN 355.1-18	18	2	17	39	8	9	11	50	57
GN 355.1-24	24	4	22.5	43	9	12	13	75	68
GN 355.1-30	30	4	28.5	48	11	15	17	100	155
GN 355.1-36	36	4	34.5	53	13	18	22	150	255

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Square end-caps for tubes

Technopolymer

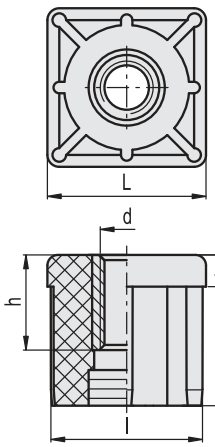
MATERIAL

Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

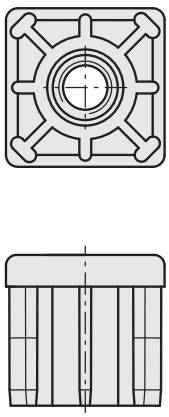
STANDARD EXECUTION

Nickel-plated brass boss with threaded pass-through hole.

NDX.Q - 20 - 25 - 30 - 35 - 40



NDX.Q - 50 - 60



Code	Description	L	d	h	H	h1	l	External tube diameter	Internal tube diameter	Thickness	Max. static load* [N]	⚖
320011	NDX.Q-20x1.5-M8	20	M8	10	23	5	17	20	17	1.5	4000	13
320016	NDX.Q-20x2-M8	20	M8	10	23	5	16	20	16	2	4000	13
320021	NDX.Q-25x1.5-M8	25	M8	10	26	6	22	25	22	1.5	4500	20
320022	NDX.Q-25x1.5-M10	25	M10	10	26	6	22	25	22	1.5	4500	20
320023	NDX.Q-25x1.5-M12	25	M12	10	26	6	22	25	22	1.5	4500	20
320026	NDX.Q-25x2-M8	25	M8	10	26	6	21	25	21	2	4500	20
320027	NDX.Q-25x2-M10	25	M10	10	26	6	21	25	21	2	4500	20
320031	NDX.Q-30x1.5-M8	30	M8	10	31	6	27	30	27	1.5	4500	28
320032	NDX.Q-30x1.5-M10	30	M10	10	31	6	27	30	27	1.5	4500	28
320033	NDX.Q-30x1.5-M12	30	M12	10	31	6	27	30	27	1.5	4500	28
320034	NDX.Q-30x1.5-M14	30	M14	15	31	6	27	30	27	1.5	4500	30
320035	NDX.Q-30x1.5-M16	30	M16	15	31	6	27	30	27	1.5	4500	30
320041	NDX.Q-30x2.0-M8	30	M8	10	31	6	26	30	26	2	4500	28
320042	NDX.Q-30x2.0-M10	30	M10	10	31	6	26	30	26	2	4500	28
320043	NDX.Q-30x2.0-M12	30	M12	10	31	6	26	30	26	2	4500	28
320044	NDX.Q-30x2.0-M14	30	M14	15	31	6	26	30	26	2	4500	30
320045	NDX.Q-30x2.0-M16	30	M16	15	31	6	26	30	26	2	4500	30
320051	NDX.Q-35x1.5-M8	35	M8	10	38	8	32	35	32	1.5	6000	40
320052	NDX.Q-35x1.5-M10	35	M10	10	38	8	32	35	32	1.5	6000	40
320053	NDX.Q-35x1.5-M12	35	M12	10	38	8	32	35	32	1.5	6000	40
320054	NDX.Q-35x1.5-M14	35	M14	15	38	8	32	35	32	1.5	6000	42
320055	NDX.Q-35x1.5-M16	35	M16	15	38	8	32	35	32	1.5	6000	42
320056	NDX.Q-35x1.5-M20	35	M20	20	38	8	32	35	32	1.5	6000	41
320061	NDX.Q-35x2-M8	35	M8	10	38	8	31	35	31	2	6000	40
320062	NDX.Q-35x2-M10	35	M10	10	38	8	31	35	31	2	6000	40
320063	NDX.Q-35x2-M12	35	M12	10	38	8	31	35	31	2	6000	40
320064	NDX.Q-35x2-M14	35	M14	15	38	8	31	35	31	2	6000	42
320065	NDX.Q-35x2-M16	35	M16	15	38	8	31	35	31	2	6000	42
320066	NDX.Q-35x2-M20	35	M20	20	38	8	31	35	31	2	6000	40
320071	NDX.Q-40x1.2-M8	40	M8	10	38	8	37.6	40	37.6	1.2	6000	47
320072	NDX.Q-40x1.2-M10	40	M10	10	38	8	37.6	40	37.6	1.2	6000	47
320073	NDX.Q-40x1.2-M12	40	M12	10	38	8	37.6	40	37.6	1.2	6000	47
320074	NDX.Q-40x1.2-M14	40	M14	15	38	8	37.6	40	37.6	1.2	6000	49
320075	NDX.Q-40x1.2-M16	40	M16	15	38	8	37.6	40	37.6	1.2	6000	49

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

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NDX.Q | Square end-caps for tubes

Code	Description	L	d	h	H	h1	l	External tube diameter	Internal tube diameter	Thickness	Max. static load* [N]	⚖
320076	NDX.Q-40x1.2-M20	40	M20	20	38	8	37.6	40	37.6	1.2	8000	48
320081	NDX.Q-40x1.5-M8	40	M8	10	38	8	37	40	37	1.5	6000	47
320082	NDX.Q-40x1.5-M10	40	M10	10	38	8	37	40	37	1.5	6000	47
320083	NDX.Q-40x1.5-M12	40	M12	10	38	8	37	40	37	1.5	6000	47
320084	NDX.Q-40x1.5-M14	40	M14	15	38	8	37	40	37	1.5	6000	49
320085	NDX.Q-40x1.5-M16	40	M16	15	38	8	37	40	37	1.5	6000	49
320086	NDX.Q-40x1.5-M20	40	M20	20	38	8	37	40	37	1.5	8000	48
320091	NDX.Q-40x2-M8	40	M8	10	38	8	36	40	36	2	6000	47
320092	NDX.Q-40x2-M10	40	M10	10	38	8	36	40	36	2	6000	47
320093	NDX.Q-40x2-M12	40	M12	10	38	8	36	40	36	2	6000	47
320094	NDX.Q-40x2-M14	40	M14	15	38	8	36	40	36	2	6000	49
320095	NDX.Q-40x2-M16	40	M16	15	38	8	36	40	36	2	6000	49
320096	NDX.Q-40x2-M20	40	M20	20	38	8	36	40	36	2	8000	48
320101	NDX.Q-40x2.5-M8	40	M8	10	38	8	35	40	35	2.5	6000	47
320102	NDX.Q-40x2.5-M10	40	M10	10	38	8	35	40	35	2.5	6000	47
320103	NDX.Q-40x2.5-M12	40	M12	10	38	8	35	40	35	2.5	6000	47
320104	NDX.Q-40x2.5-M14	40	M14	15	38	8	35	40	35	2.5	6000	49
320105	NDX.Q-40x2.5-M16	40	M16	15	38	8	35	40	35	2.5	6000	49
320106	NDX.Q-40x2.5-M20	40	M20	20	38	8	35	40	35	2.5	8000	50
320098	NDX.Q-40x3-M10	40	M10	10	38	8	34	40	34	3	6000	49
320099	NDX.Q-40x3-M12	40	M12	10	38	8	34	40	34	3	6000	48
320108	NDX.Q-45x3-M12	45	M12	10	38	8	39	45	39	3	6000	47
320109	NDX.Q-45x3-M16	45	M16	15	38	8	39	45	39	3	6000	46
320111	NDX.Q-50x1.2-M8	50	M8	10	45	10	47.6	50	47.6	1.2	6000	72
320112	NDX.Q-50x1.2-M10	50	M10	10	45	10	47.6	50	47.6	1.2	6000	72
320113	NDX.Q-50x1.2-M12	50	M12	10	45	10	47.6	50	47.6	1.2	6000	72
320114	NDX.Q-50x1.2-M14	50	M14	15	45	10	47.6	50	47.6	1.2	6000	74
320115	NDX.Q-50x1.2-M16	50	M16	15	45	10	47.6	50	47.6	1.2	6000	74
320116	NDX.Q-50x1.2-M20	50	M20	20	45	10	47.6	50	47.6	1.2	8500	75
320121	NDX.Q-50x1.5-M8	50	M8	10	45	10	47	50	47	1.5	6000	72
320122	NDX.Q-50x1.5-M10	50	M10	10	45	10	47	50	47	1.5	6000	72
320123	NDX.Q-50x1.5-M12	50	M12	10	45	10	47	50	47	1.5	6000	72
320124	NDX.Q-50x1.5-M14	50	M14	15	45	10	47	50	47	1.5	6000	74
320125	NDX.Q-50x1.5-M16	50	M16	15	45	10	47	50	47	1.5	6000	74
320126	NDX.Q-50x1.5-M20	50	M20	20	45	10	47	50	47	1.5	8500	75
320131	NDX.Q-50x2-M8	50	M8	10	45	10	46	50	46	2	6000	72
320132	NDX.Q-50x2-M10	50	M10	10	45	10	46	50	46	2	6000	72
320133	NDX.Q-50x2-M12	50	M12	10	45	10	46	50	46	2	6000	72
320134	NDX.Q-50x2-M14	50	M14	15	45	10	46	50	46	2	6000	74
320135	NDX.Q-50x2-M16	50	M16	15	45	10	46	50	46	2	6000	74
320136	NDX.Q-50x2-M20	50	M20	20	45	10	46	50	46	2	8500	75
320141	NDX.Q-50x2.5-M8	50	M8	10	45	10	45	50	45	2.5	6000	72
320142	NDX.Q-50x2.5-M10	50	M10	10	45	10	45	50	45	2.5	6000	72
320143	NDX.Q-50x2.5-M12	50	M12	10	45	10	45	50	45	2.5	6000	72
320144	NDX.Q-50x2.5-M14	50	M14	15	45	10	45	50	45	2.5	6000	74
320145	NDX.Q-50x2.5-M16	50	M16	15	45	10	45	50	45	2.5	6000	74
320146	NDX.Q-50x2.5-M20	50	M20	20	45	10	45	50	45	2.5	8500	74
320152	NDX.Q-50x3.0-M10	50	M10	10	45	10	44	50	44	3	6000	72
320153	NDX.Q-50x3.0-M12	50	M12	10	45	10	44	50	44	3	6000	72
320154	NDX.Q-50x3.0-M14	50	M14	15	45	10	44	50	44	3	6000	74
320155	NDX.Q-50x3.0-M16	50	M16	15	45	10	44	50	44	3	6000	74
320156	NDX.Q-50x3.0-M20	50	M20	20	45	10	44	50	44	3	8500	75
320162	NDX.Q-60x2.0-M10	60	M10	10	45	10	56	60	56	2	6000	98
320163	NDX.Q-60x2.0-M12	60	M12	10	45	10	56	60	56	2	6000	98
320164	NDX.Q-60x2.0-M14	60	M14	15	45	10	56	60	56	2	6000	98
320165	NDX.Q-60x2.0-M16	60	M16	15	45	10	56	60	56	2	6000	97
320166	NDX.Q-60x2.0-M20	60	M20	20	45	10	56	60	56	2	8500	97
320172	NDX.Q-60x3.0-M10	60	M10	10	45	10	54	60	54	3	6000	98
320173	NDX.Q-60x3.0-M12	60	M12	10	45	10	54	60	54	3	6000	98
320174	NDX.Q-60x3.0-M14	60	M14	15	45	10	54	60	54	3	6000	98
320175	NDX.Q-60x3.0-M16	60	M16	15	45	10	54	60	54	3	6000	97
320176	NDX.Q-60x3.0-M20	60	M20	20	45	10	54	60	54	3	8500	97

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

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Round end-caps for tubes

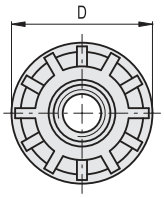
Technopolymer

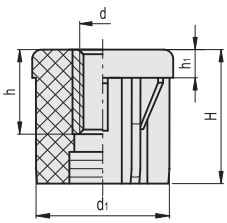
MATERIAL

Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

STANDARD EXECUTION

Nickel-plated brass boss with threaded pass-through hole.





Code	Description	D	d	h	d1	H	h1	External tube diameter	Internal tube diameter	Thickness	Max. static load* [N]	⚖
320211	NDX.T-20x2-M8	20	M8	5	16	23	5	20	16	2	4000	23
320221	NDX.T-25x2-M8	25	M8	5.5	21	26	5.5	25	21	2	4500	24
320222	NDX.T-25x2-M10	25	M10	5.5	21	26	5.5	25	21	2	4500	24
320231	NDX.T-30x1-M8	30	M8	10	28	31	6	30	28	1	4500	24
320232	NDX.T-30x1-M10	30	M10	10	28	31	6	30	28	1	4500	24
320233	NDX.T-30x1-M12	30	M12	10	28	31	6	30	28	1	4500	24
320234	NDX.T-30x1-M14	30	M14	15	28	31	6	30	28	1	4500	26
320235	NDX.T-30x1-M16	30	M16	15	28	31	6	30	28	1	4500	26
320241	NDX.T-30x1.5-M8	30	M8	10	27	31	6	30	27	1.5	4500	24
320242	NDX.T-30x1.5-M10	30	M10	10	27	31	6	30	27	1.5	4500	24
320243	NDX.T-30x1.5-M12	30	M12	10	27	31	6	30	27	1.5	4500	24
320244	NDX.T-30x1.5-M14	30	M14	15	27	31	6	30	27	1.5	4500	26
320245	NDX.T-30x1.5-M16	30	M16	15	27	31	6	30	27	1.5	4500	26
320251	NDX.T-30x2-M8	30	M8	10	26	31	6	30	26	2	4500	24
320252	NDX.T-30x2-M10	30	M10	10	26	31	6	30	26	2	4500	24
320253	NDX.T-30x2-M12	30	M12	10	26	31	6	30	26	2	4500	24
320254	NDX.T-30x2-M14	30	M14	15	26	31	6	30	26	2	4500	26
320255	NDX.T-30x2-M16	30	M16	15	26	31	6	30	26	2	4500	26
320261	NDX.T-30x2.5-M8	30	M8	10	25	31	6	30	25	2.5	4500	24
320262	NDX.T-30x2.5-M10	30	M10	10	25	31	6	30	25	2.5	4500	24
320263	NDX.T-30x2.5-M12	30	M12	10	25	31	6	30	25	2.5	4500	24
320264	NDX.T-30x2.5-M14	30	M14	15	25	31	6	30	25	2.5	4500	26
320265	NDX.T-30x2.5-M16	30	M16	15	25	31	6	30	25	2.5	4500	26
320266	NDX.T-32x2-M8	32	M8	10	28	31	6	32	28	2	4500	28
320267	NDX.T-32x2-M10	32	M10	10	28	31	6	32	28	2	4500	28
320268	NDX.T-35x2-M10	35	M10	10	31	31	6	35	31	2	4500	30
320269	NDX.T-35x2-M12	35	M12	10	31	31	6	35	31	2	4500	30
320271	NDX.T-38x1.5-M8	38	M8	10	35	38	8	38	35	1.5	5000	32
320272	NDX.T-38x1.5-M10	38	M10	10	35	38	8	38	35	1.5	5000	32
320273	NDX.T-38x1.5-M12	38	M12	10	35	38	8	38	35	1.5	5000	32
320274	NDX.T-38x1.5-M14	38	M14	15	35	38	8	38	35	1.5	5000	34
320275	NDX.T-38x1.5-M16	38	M16	15	35	38	8	38	35	1.5	5000	34
320282	NDX.T-38x2-M10	38	M10	10	34	38	8	38	34	2	5000	32
320283	NDX.T-38x2-M12	38	M12	10	34	38	8	38	34	2	5000	32
320284	NDX.T-38x2-M14	38	M14	15	34	38	8	38	34	2	5000	34
320285	NDX.T-38x2-M16	38	M16	15	34	38	8	38	34	2	5000	34
320292	NDX.T-38x2.5-M10	38	M10	10	33	38	8	38	33	2.5	5000	32
320293	NDX.T-38x2.5-M12	38	M12	10	33	38	8	38	33	2.5	5000	32
320294	NDX.T-38x2.5-M14	38	M14	15	33	38	8	38	33	2.5	5000	34
320295	NDX.T-38x2.5-M16	38	M16	15	33	38	8	38	33	2.5	5000	34
320297	NDX.T-40x3-M10	40	M10	10	34	38	7.5	40	34	3	5000	40
320298	NDX.T-40x3-M12	40	M12	10	34	38	7.5	40	34	3	5000	40
320301	NDX.T-42.4x1.5-M8	42	M8	10	39.4	38	8	42.4	39.4	1.5	5000	44
320302	NDX.T-42.4x1.5-M10	42	M10	10	39.4	38	8	42.4	39.4	1.5	5000	44
320303	NDX.T-42.4x1.5-M12	42	M12	10	39.4	38	8	42.4	39.4	1.5	5000	44
320304	NDX.T-42.4x1.5-M14	42	M14	15	39.4	38	8	42.4	39.4	1.5	5000	46
320305	NDX.T-42.4x1.5-M16	42	M16	15	39.4	38	8	42.4	39.4	1.5	5000	46
320306	NDX.T-42.4x1.5-M20	42	M20	20	39.4	38	8	42.4	39.4	1.5	8000	42

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

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Code	Description	D	d	h	d1	H	h1	External tube diameter	Internal tube diameter	Thickness	Max. static load* [N]	⚖
320312	NDX.T-42.4x2-M10	42	M10	10	38.4	38	8	42.4	38.4	2	5000	44
320313	NDX.T-42.4x2-M12	42	M12	10	38.4	38	8	42.4	38.4	2	5000	44
320314	NDX.T-42.4x2-M14	42	M14	15	38.4	38	8	42.4	38.4	2	5000	46
320315	NDX.T-42.4x2-M16	42	M16	15	38.4	38	8	42.4	38.4	2	5000	46
320316	NDX.T-42.4x2-M20	42	M20	20	38.4	38	8	42.4	38.4	2	8000	42
320322	NDX.T-42.4x2.5-M10	42	M10	10	37.4	38	8	42.4	37.4	2.5	5000	44
320323	NDX.T-42.4x2.5-M12	42	M12	10	37.4	38	8	42.4	37.4	2.5	5000	44
320324	NDX.T-42.4x2.5-M14	42	M14	15	37.4	38	8	42.4	37.4	2.5	5000	46
320325	NDX.T-42.4x2.5-M16	42	M16	15	37.4	38	8	42.4	37.4	2.5	5000	46
320326	NDX.T-42.4x2.5-M20	42	M20	20	37.4	38	8	42.4	37.4	2.5	8000	42
320327	NDX.T-42x3-M10	42	M10	10	36	38	8	42	36	3	5000	44
320328	NDX.T-42x3-M12	42	M12	10	36	38	8	42	36	3	5000	44
320329	NDX.T-45x3-M12	45	M12	10	39	38	8.5	45	39	3	5000	46
320330	NDX.T-45x3-M16	45	M16	10	39	38	8.5	45	39	3	5000	46
320331	NDX.T-48.3x1.5-M8	48	M8	10	45.3	45	10	48.3	45.3	1.5	5500	50
320332	NDX.T-48.3x1.5-M10	48	M10	10	45.3	45	10	48.3	45.3	1.5	5500	50
320333	NDX.T-48.3x1.5-M12	48	M12	10	45.3	45	10	48.3	45.3	1.5	5500	50
320334	NDX.T-48.3x1.5-M14	48	M14	15	45.3	45	10	48.3	45.3	1.5	5500	52
320335	NDX.T-48.3x1.5-M16	48	M16	15	45.3	45	10	48.3	45.3	1.5	5500	52
320336	NDX.T-48.3x1.5-M20	48	M20	20	45.3	45	10	48.3	45.3	1.5	8500	48
320343	NDX.T-48.3x2-M12	48	M12	10	44.3	38	10	48.3	44.3	2	5500	50
320344	NDX.T-48.3x2-M14	48	M14	15	44.3	45	10	48.3	44.3	2	5500	52
320345	NDX.T-48.3x2-M16	48	M16	15	44.3	45	10	48.3	44.3	2	5500	52
320346	NDX.T-48.3x2-M20	48	M20	20	44.3	45	10	48.3	44.3	2	8500	48
320353	NDX.T-48.3x2.5-M12	48	M12	10	43.3	45	10	48.3	43.3	2.5	5500	50
320354	NDX.T-48.3x2.5-M14	48	M14	15	43.3	45	10	48.3	43.3	2.5	5500	52
320355	NDX.T-48.3x2.5-M16	48	M16	15	43.3	45	10	48.3	43.3	2.5	5500	52
320356	NDX.T-48.3x2.5-M20	48	M20	20	43.3	45	10	48.3	43.3	2.5	8500	48
320358	NDX.T-48x3-M12	48	M12	10	42	45	10	48	42	3	5500	50
320359	NDX.T-48x3-M16	48	M16	15	42	45	10	48	42	3	5500	52
320363	NDX.T-50.9x1.5-M12	50.5	M12	10	47.9	45	10	50.9	47.9	1.5	5500	64
320364	NDX.T-50.9x1.5-M14	50.5	M14	15	47.9	45	10	50.9	47.9	1.5	5500	64
320365	NDX.T-50.9x1.5-M16	50.5	M16	15	47.9	45	10	50.9	47.9	1.5	5500	63
320366	NDX.T-50.9x1.5-M20	50.5	M20	20	47.9	45	10	50.9	47.9	1.5	8500	63
320373	NDX.T-50.9x2-M12	50.5	M12	10	46.9	45	10	50.9	46.9	2	5500	63
320374	NDX.T-50.9x2-M14	50.5	M14	15	46.9	45	10	50.9	46.9	2	5500	63
320375	NDX.T-50.9x2-M16	50.5	M16	15	46.9	45	10	50.9	46.9	2	5500	63
320376	NDX.T-50.9x2-M20	50.5	M20	20	46.9	45	10	50.9	46.9	2	8500	62
320383	NDX.T-50.9x2.5-M12	50.5	M12	10	45.9	45	10	50.9	45.9	2.5	5500	64
320384	NDX.T-50.9x2.5-M14	50.5	M14	15	45.9	45	10	50.9	45.9	2.5	5500	64
320385	NDX.T-50.9x2.5-M16	50.5	M16	15	45.9	45	10	50.9	45.9	2.5	5500	63
320386	NDX.T-50.9x2.5-M20	50.5	M20	20	45.9	45	10	50.9	45.9	2.5	8500	63
320388	NDX.T-50x3-M12	50.5	M12	10	44.5	45	10	50.5	44.5	3	5500	64
320389	NDX.T-50x3-M16	50.5	M16	15	44.5	45	10	50.5	44.5	3	5500	63
320391	NDX.T-60.3x1.5-M8	60	M8	10	57.3	52	12	60.3	57.3	1.5	5500	92
320392	NDX.T-60.3x1.5-M10	60	M10	10	57.3	52	12	60.3	57.3	1.5	5500	92
320393	NDX.T-60.3x1.5-M12	60	M12	10	57.3	52	12	60.3	57.3	1.5	5500	92
320394	NDX.T-60.3x1.5-M14	60	M14	15	57.3	52	12	60.3	57.3	1.5	5500	94
320395	NDX.T-60.3x1.5-M16	60	M16	15	57.3	52	12	60.3	57.3	1.5	5500	94
320396	NDX.T-60.3x1.5-M20	60	M20	20	57.3	52	12	60.3	57.3	1.5	8500	92
320397	NDX.T-60.3x1.5-M24	60	M24	20	57.3	52	12	60.3	57.3	1.5	8500	92
320401	NDX.T-60.3x2-M8	60	M8	10	56.3	52	12	60.3	56.3	2	5500	92
320402	NDX.T-60.3x2-M10	60	M10	10	56.3	52	12	60.3	56.3	2	5500	92
320403	NDX.T-60.3x2-M12	60	M12	10	56.3	52	12	60.3	56.3	2	5500	92
320404	NDX.T-60.3x2-M14	60	M14	15	56.3	52	12	60.3	56.3	2	5500	94
320405	NDX.T-60.3x2-M16	60	M16	15	56.3	52	12	60.3	56.3	2	5500	94
320406	NDX.T-60.3x2-M20	60	M20	20	56.3	52	12	60.3	56.3	2	8500	94
320407	NDX.T-60.3x2-M24	60	M24	20	56.3	52	12	60.3	56.3	2	8500	92
320411	NDX.T-60.3x2.5-M8	60	M8	10	55.3	52	12	60.3	55.3	2.5	5500	92
320412	NDX.T-60.3x2.5-M10	60	M10	10	55.3	52	12	60.3	55.3	2.5	5500	92
320413	NDX.T-60.3x2.5-M12	60	M12	10	55.3	52	12	60.3	55.3	2.5	5500	92
320414	NDX.T-60.3x2.5-M14	60	M14	15	55.3	52	12	60.3	55.3	2.5	5500	94
320415	NDX.T-60.3x2.5-M16	60	M16	15	55.3	52	12	60.3	55.3	2.5	5500	94
320416	NDX.T-60.3x2.5-M20	60	M20	20	55.3	52	12	60.3	55.3	2.5	8500	92
320417	NDX.T-60.3x2.5-M24	60	M24	20	55.3	52	12	60.3	55.3	2.5	8500	92

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

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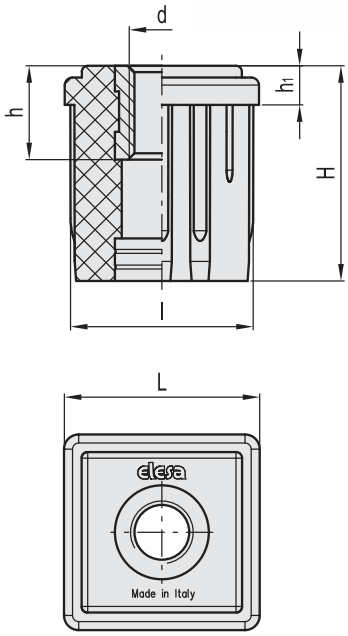
Square end-caps for tubes

heavy loads, technopolymer

MATERIAL
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

STANDARD EXECUTION
Nickel-plated brass boss with threaded pass-through hole.

FEATURES
They can also bear slipping loads contrariwise.



ELESA Original design

Code	Description	L	d	h	H	h1	l	External tube diameter	Internal tube diameter	Thickness	Max. static load* [N]	⚖
319102	ND.Q-30x1.5-M8	30	M8	15	33	6	27.5	30	27	1.5	17000	57
319103	ND.Q-30x1.5-M10	30	M10	15	33	6	27.5	30	27	1.5	17000	56
319104	ND.Q-30x1.5-M12	30	M12	18	33	6	27.5	30	27	1.5	17000	51
319106	ND.Q-30x1.5-M16	30	M16	20	33	6	27.5	30	27	1.5	17000	38
319262	ND.Q-40x2-M8	40	M8	15	43	8	36.5	40	36	2	18000	86
319263	ND.Q-40x2-M10	40	M10	15	43	8	36.5	40	36	2	18000	85
319264	ND.Q-40x2-M12	40	M12	18	43	8	36.5	40	36	2	18000	80
319266	ND.Q-40x2-M16	40	M16	20	43	8	36.5	40	36	2	18000	67
319352	ND.Q-50x2-M12	50	M12	18	55	10	46.5	50	46	2	20000	157
319354	ND.Q-50x2-M16	50	M16	20	55	10	46.5	50	46	2	20000	156
319356	ND.Q-50x2-M20	50	M20	30	55	10	46.5	50	46	2	20000	132
319362	ND.Q-50x2.5-M12	50	M12	18	55	10	45.5	50	45	2.5	20000	153
319364	ND.Q-50x2.5-M16	50	M16	20	55	10	45.5	50	45	2.5	20000	152
319366	ND.Q-50x2.5-M20	50	M20	30	55	10	45.5	50	45	2.5	20000	128

***** The max static load is the value above which the load applied to the element may cause some plastic material breakage, in particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

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End-caps for square tubes

Technopolymer

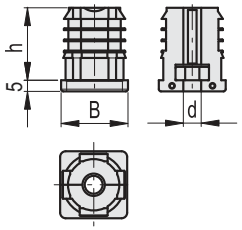
MATERIAL
Polyamide based (PA) technopolymer, black colour, matte finish.

STANDARD EXECUTION
DIN 934 zinc-plated steel nut (included in the supply).

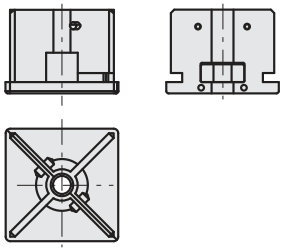
FEATURES AND APPLICATIONS
The two end-cap parts are connected together by means of two pins which are housed in special counter-seats. A cavity inside the end-cap is provided for housing an hexagonal nut DIN 934.
The assembly can be performed simply by positioning the end-cap inside the tube, with no need of screws or other fasteners.

SPECIAL EXECUTIONS ON REQUEST
End-cap without nut.

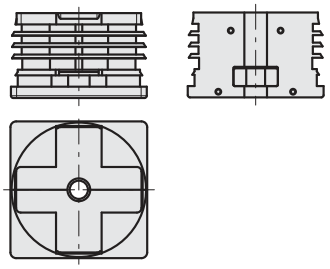
NDL.Q-20 ÷ NDL.Q-40



NDL.Q-50 M8÷M10



NDL.Q-50x3-M12
NDL.Q-60



The geometry of the end-cap in the part that is inserted into the tube may vary for the different dimensions.

Code	Description	B	d	h	External tube diameter	Internal tube diameter min-max	Thickness min-max	Max. static load* [N]	⚖
430551	NDL.Q-20x1.5-2-M6	20	M6	34	20	17-16	1.5-2	3000	10
430553	NDL.Q-20x1.5-2-M8	20	M8	34	20	17-16	1.5-2	3000	11
430555	NDL.Q-20x1.5-2-M10	20	M10	33	20	17-16	1.5-2	3000	16
430557	NDL.Q-20x2-M8	20	M8	34	20	16	2	3000	11
430561	NDL.Q-25x1-1.5-M8	25	M8	34	25	23-22	1-1.5	3000	17
430563	NDL.Q-25x1.5-M10	25	M10	33	25	22	1.5	3000	21
430565	NDL.Q-25x2-M8	25	M8	34	25	21	2	3000	16
430567	NDL.Q-25x2-M10	25	M10	34	25	21	2	3000	20
430571	NDL.Q-30x1.5-2-M8	30	M8	34	30	27-26	1.5-2	3000	20
430573	NDL.Q-30x1.5-2-M10	30	M10	34	30	27-26	1.5-2	3000	24
430575	NDL.Q-30x2.5-M10	30	M10	33	30	25	2.5	3000	24
430581	NDL.Q-35x1-2-M10	35	M10	34	35	33-31	1-2	3000	30
430583	NDL.Q-35x1.5-M12	35	M12	34	35	32	1.5	3000	37
430585	NDL.Q-35x1.5-2-M8	35	M8	34	35	32-31	1.5-2	3000	26
430587	NDL.Q-35x1.5-2-M12	35	M12	34	35	32-31	1.5-2	3000	36
430591	NDL.Q-40x1.5-2-M8	40	M8	33	40	37-36	1.5-2	3000	38
430593	NDL.Q-40x1.2-1.5-M10	40	M10	33	40	37.6-37	1.2-1.5	3000	42
430595	NDL.Q-40x1.5-2-M10	40	M10	33	40	37-36	1.5-2	3000	41
430597	NDL.Q-40x1.5-2-M12	40	M12	33	40	37-36	1.5-2	3000	44
430599	NDL.Q-40x1.5-2-M16	40	M16	33	40	37-36	1.5-2	3000	55
430601	NDL.Q-40x2-M8	40	M8	34	40	36	2	3000	26
430603	NDL.Q-40x3-M10	40	M10	33	40	34	3	3000	41
430611	NDL.Q-50x1.5-M10	50	M10	34	50	47	1.5	3000	42
430613	NDL.Q-50x2-M8	50	M8	34	50	46	2	3000	37
430615	NDL.Q-50x2-M10	50	M10	32	50	46	2	3000	41
430617	NDL.Q-50x2.5-M10	50	M10	33	50	45	2.5	3000	41
430619	NDL.Q-50x3-M12	50	M12	34	50	44	3	3000	50
430621	NDL.Q-60x1.5-2-M10	60	M10	34	60	57-56	1.5-2	3000	70
430623	NDL.Q-60x1.5-2-M12	60	M12	34	60	57-56	1.5-2	3000	74

***** The max limit static load is the value above which the load applied to the element may cause some plastic material breakage, under particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value. The values shown in the table refer to the use of the end-cap in combination with a steel tube. The use of an aluminum tube may cause a decrease in the max limit static load equal to 25% due to possible deformations of the tube section under load.

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End-caps for round tubes

Technopolymer

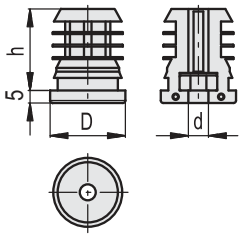
MATERIAL
Polyamide based (PA) technopolymer, black colour, matte finish.

STANDARD EXECUTION
DIN 934 zinc-plated steel nut (included in the supply).

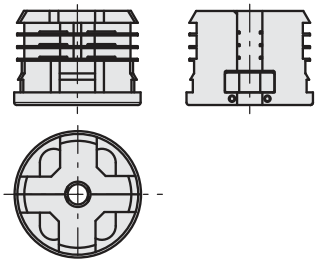
FEATURES AND APPLICATIONS
The two end-cap parts are connected together by means of two pins which are housed in special counter-seats. A cavity inside the end-cap is provided for housing an hexagonal nut DIN 934.
The assembly can be performed simply by positioning the end-cap inside the tube, with no need of screws or other fasteners.

SPECIAL EXECUTIONS ON REQUEST
End-cap without nut.

NDL.T-20 ÷ 40



NDL.T-50



The geometry of the end-cap in the part that is inserted into the tube may vary for the different dimensions.

Code	Description	D	d	h	External tube diameter	Internal tube diameter min-max	Thickness min-max	Max. static load* [N]	⚖
430651	NDL.T-20x1-1.5-M8	20	M8	34	20	18-17	1-1.5	3000	10
430653	NDL.T-20x2-M8	20	M8	34	20	16	2	3000	9
430661	NDL.T-25x1.5-2-M6	25	M6	34	25	22-21	1.5-2	3000	12
430663	NDL.T-25x1.5-2-M8	25	M8	34	25	22-21	1.5-2	3000	14
430665	NDL.T-25x1.5-2-M10	25	M10	33	25	22-21	1.5-2	3000	18
430667	NDL.T-25x2.5-M8	25	M8	34	25	20	2.5	3000	12
430671	NDL.T-28x1.5-2-M10	28	M6	34	28	25-24	1.5-2	3000	16
430673	NDL.T-28x1-1.5-M8	28	M8	34	28	26-25	1-1.5	3000	17
430675	NDL.T-28x1-1.5-M10	28	M10	34	28	26-25	1-1.5	3000	21
430677	NDL.T-28x2-M8	28	M8	34	28	24	2	3000	16
430679	NDL.T-28x2-M10	28	M10	34	28	24	2	3000	20
430681	NDL.T-30x1-M8	30	M8	34	30	28	1	3000	19
430683	NDL.T-30x1-M10	30	M10	34	30	28	1	3000	22
430685	NDL.T-30x1.5-2-M8	30	M8	34	30	27-26	1.5-2	3000	18
430687	NDL.T-30x1.5-2-M10	30	M10	34	30	27-26	1.5-2	3000	22
430691	NDL.T-32x1.5-2-M8	32	M8	34	32	29-28	1.5-2	3000	22
430693	NDL.T-32x1.5-2-M10	32	M10	34	32	29-28	1.5-2	3000	26
430701	NDL.T-35x1-M10	35	M10	34	35	33	1	3000	29
430703	NDL.T-35x1.5-2-M8	35	M8	34	35	32-31	1.5-2	3000	25
430705	NDL.T-35x1.5-2-M10	35	M10	34	35	32-31	1.5-2	3000	29
430707	NDL.T-35x2.5-M8	35	M8	34	35	30	2.5	3000	23
430709	NDL.T-35x2.5-M10	35	M10	34	35	30	2.5	3000	27
430711	NDL.T-40x1.5-2-M8	40	M8	34	40	37-36	1.5-2	3000	33
430713	NDL.T-40x1.5-2-M10	40	M10	34	40	37-36	1.5-2	3000	37
430715	NDL.T-40x1.5-2-M12	40	M12	34	40	37-36	1.5-2	3000	40
430721	NDL.T-50x1.5-M8	50	M8	34	50	47	1.5	3000	45
430723	NDL.T-50x1.5-M10	50	M10	34	50	47	1.5	3000	48
430725	NDL.T-50x2-M8	50	M8	34	50	46	2	3000	43
430727	NDL.T-50x2-M10	50	M10	34	50	46	2	3000	46
430729	NDL.T-50x2.5-M12	50	M12	34	50	45	2.5	3000	49

***** The max limit static load is the value above which the load applied to the element may cause some plastic material breakage, under particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value. The values shown in the table refer to the use of the end-cap in combination with a steel tube. The use of an aluminum tube may cause a decrease in the max limit static load equal to 25% due to possible deformations of the tube section under load.

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GN 992

Insert bushings

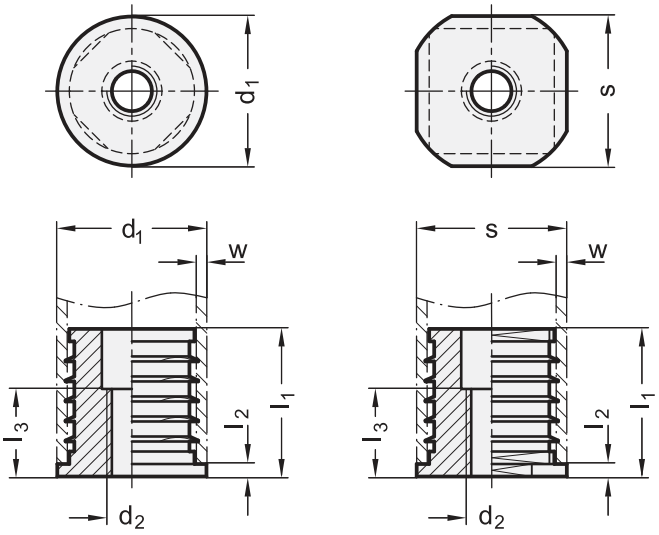
Aluminium / for round tube and square tube

SPECIFICATION

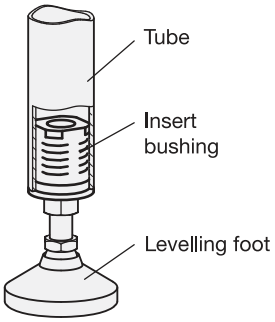
Aluminium
blank

INFORMATION

Drive the insert bushings GN 992 in by using a soft-head mallet. Their lamellas bridge a production tolerance of the internal diameter or of the internal square of ±0.5 mm, allowing screws to be mounted in tubes.
The dimensions match those of the construction tubes GN 990 (see page 1902), but checking the tolerance position of the tube is recommended.



Application example



GN 992-D

Description	d1	d2	l1	l2	l3 +0.5	w	For tube GN 990	⚖
GN 992-D20-M8	D 20	M 8	29.5	2.5	16	2	D 20	10
GN 992-D25-M8	D 25	M 8	33.5	2.5	16	2	D 25	22
GN 992-D25-M10	D 25	M 10	33.5	2.5	16	2	D 25	22
GN 992-D30-M8	D 30	M 8	33.5	2.5	18	2	D 30	34
GN 992-D30-M10	D 30	M 10	33.5	2.5	18	2	D 30	45
GN 992-D32-M8	D 32	M 8	33.5	2.5	18	2	D 32	50
GN 992-D32-M10	D 32	M 10	33.5	2.5	18	2	D 32	50
GN 992-D35-M10	D 35	M 10	37.5	2.5	24	2	D 35	55
GN 992-D35-M12	D 35	M 12	37.5	2.5	24	2	D 35	55
GN 992-D40-M10	D 40	M 10	41.5	2.5	24	2	D 40	78
GN 992-D40-M12	D 40	M 12	41.5	2.5	24	2	D 40	78
GN 992-D42-M10	D 42	M 10	41.5	2.5	24	2	D 42	90
GN 992-D42-M12	D 42	M 12	41.5	2.5	24	2	D 42	90
GN 992-D45-M12	D 45	M 12	45.5	2.5	30	2	D 45	110
GN 992-D45-M16	D 45	M 16	45.5	2.5	30	2	D 45	110
GN 992-D48-M12	D 48	M 12	45.5	2.5	30	2	D 48	130
GN 992-D48-M16	D 48	M 16	45.5	2.5	30	2	D 48	130
GN 992-D50-M12	D 50	M 12	45.5	2.5	30	2	D 50	145
GN 992-D50-M16	D 50	M 16	45.5	2.5	30	2	D 50	145

GN 992-V

Description	s	d2	l1	l2	l3 +0.5	w	For tube GN 990	⚖
GN 992-V20-M8	V 20	M 8	29.5	2.5	16	2	V 20	11
GN 992-V25-M8	V 25	M 8	33.5	2.5	16	2	V 25	22
GN 992-V25-M10	V 25	M 10	33.5	2.5	16	2	V 25	22
GN 992-V30-M8	V 30	M 8	33.5	2.5	18	2	V 30	41
GN 992-V30-M10	V 30	M 10	33.5	2.5	18	2	V 30	52
GN 992-V35-M10	V 35	M 10	37.5	2.5	24	2	V 35	60
GN 992-V35-M12	V 35	M 12	37.5	2.5	24	2	V 35	60
GN 992-V40-M10	V 40	M 10	41.5	2.5	24	2	V 40	90
GN 992-V40-M12	V 40	M 12	41.5	2.5	24	2	V 40	88
GN 992-V45-M12	V 45	M 12	45.5	2.5	30	2	V 45	165
GN 992-V45-M16	V 45	M 16	45.5	2.5	30	2	V 45	120
GN 992-V50-M12	V 50	M 12	45.5	2.5	30	2	V 50	165
GN 992-V50-M16	V 50	M 16	45.5	2.5	30	2	V 50	160

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Stainless Steel-Insert bushings

for round tube and square tube

SPECIFICATION

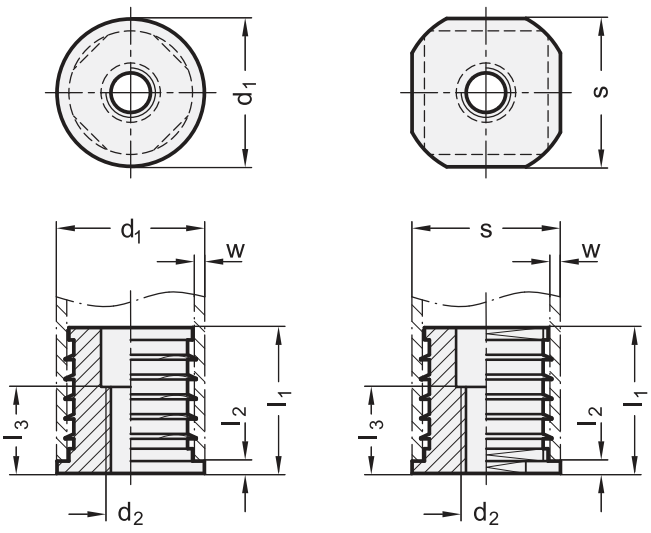
Stainless Steel AISI 303

INFORMATION

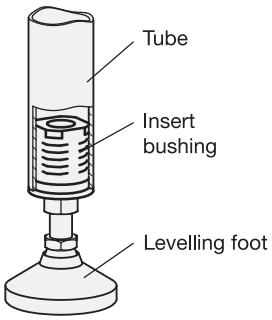
Drive the Stainless Steel-Insert bushings GN 992.5 in by using a soft-head mallet. Their lamellas bridge a production tolerance of the internal diameter or of the internal square of ±0.5 mm, allowing screws to be mounted in tubes.
The dimensions match those of the construction tubes GN 990 (see page 1902), but checking the tolerance position of the tube is recommended.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)



Application example



GN 992.5-D — STAINLESS STEEL

Description	d1	d2	l1	l2	l3 +0.5	w	For tube GN 990	⚖
GN 992.5-D20-M8	D 20	M 8	29.5	2.5	16	2	D 20	28
GN 992.5-D25-M8	D 25	M 8	33.5	2.5	16	2	D 25	80
GN 992.5-D25-M10	D 25	M 10	33.5	2.5	16	2	D 25	50
GN 992.5-D30-M8	D 30	M 8	33.5	2.5	18	2	D 30	93
GN 992.5-D30-M10	D 30	M 10	33.5	2.5	18	2	D 30	90
GN 992.5-D40-M10	D 40	M 10	41.5	2.5	24	2	D 40	186
GN 992.5-D40-M12	D 40	M 12	41.5	2.5	24	2	D 40	180
GN 992.5-D50-M12	D 50	M 12	45.5	2.5	30	2	D 50	350
GN 992.5-D50-M16	D 50	M 16	45.5	2.5	30	2	D 50	330

GN 992.5-V — STAINLESS STEEL

Description	s1	d2	l1	l2	l3 +0.5	w	For tube GN 990	⚖
GN 992.5-V20-M8	V 20	M 8	29.5	2.5	16	2	V 20	32
GN 992.5-V25-M8	V 25	M 8	29.5	2.5	16	2	V 25	61
GN 992.5-V25-M10	V 25	M 10	29.5	2.5	16	2	V 25	58
GN 992.5-V30-M8	V 30	M 8	29.5	2.5	18	2	V 30	106
GN 992.5-V30-M10	V 30	M 10	29.5	2.5	18	2	V 30	103
GN 992.5-V40-M10	V 40	M 10	33.5	2.5	24	2	V 40	216
GN 992.5-V40-M12	V 40	M 12	33.5	2.5	24	2	V 40	211
GN 992.5-V50-M12	V 50	M 12	37.5	2.5	30	2	V 50	420
GN 992.5-V50-M16	V 50	M 16	37.5	2.5	30	2	V 50	390

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Square tube connectors

Technopolymer and steel

CONNECTOR
It consists of two parts made out of polyamide (PA) based technopolymer, black or grey colour, matte finish.

REINFORCEMENT
Zinc-plated steel or stainless steel (STC-SST).

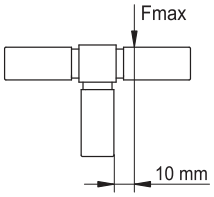
COLOR
Black or grey, matte finish.

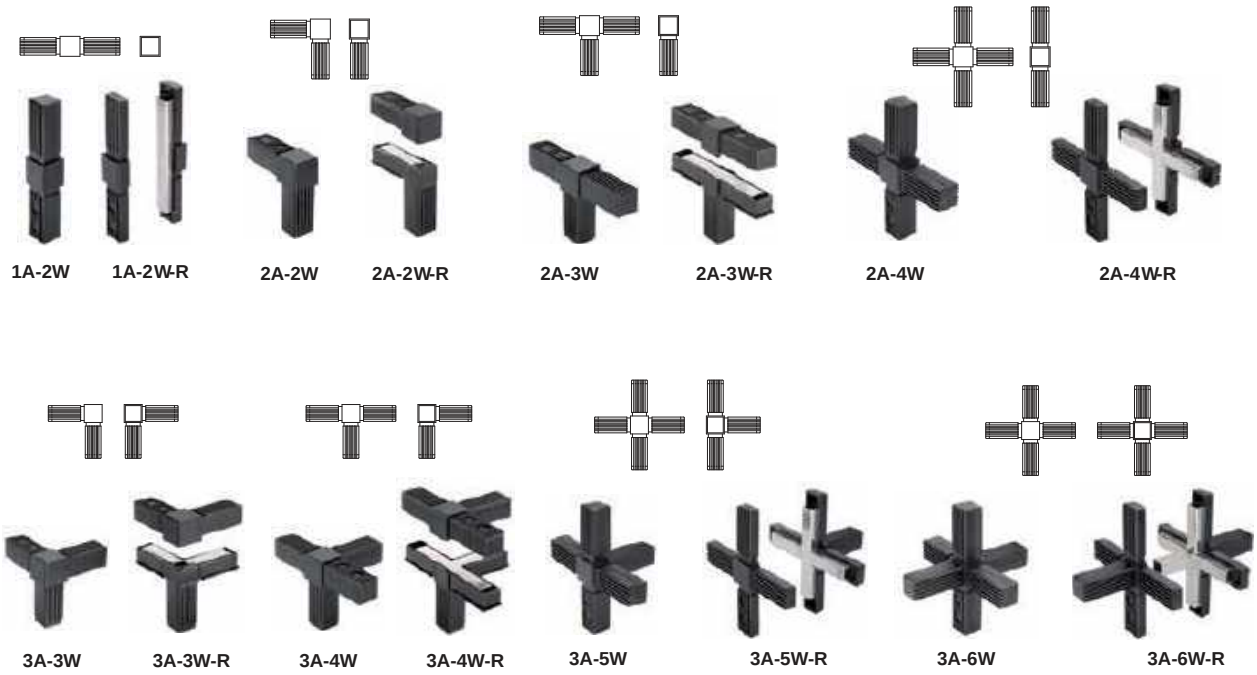
STANDARD EXECUTIONS
- **1A-2W**: monodimensional two-way connector.
- **2A-2W**: bidimensional two-way connector.
- **2A-3W**: bidimensional three-way connector.
- **2A-4W**: bidimensional four-way connector.
- **3A-3W**: tridimensional three-way connector.
- **3A-4W**: tridimensional four-way connector.
- **3A-5W**: tridimensional five-way connector.
- **3A-6W**: tridimensional six-way connector.

Index for connectors with reinforcement:
- **R**: zinc-plated steel reinforcement.
- **R-M10**: zinc-plated steel reinforcement with threaded hole.
- **R-SST**: stainless steel reinforcement.

FEATURES AND APPLICATIONS
Suitable for creating structures composed by square profiles. The assembly can be performed simply by positioning the connector, forcing it, inside the profile, with no need of screws or other fasteners. The maximum limit static load for each arm of the connectors with steel reinforcement (STC-R and STC-R-SST) is shown in Fig. 1. The maximum limit static load is the value above which, under particular conditions of use, the load applied to the element may cause breakage. As a consequence, a suitable factor must be applied to this value, according to the importance and safety level of the specific application.

Fig.1





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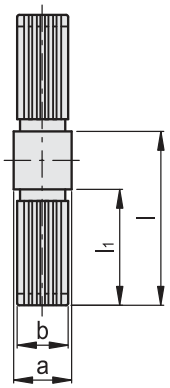
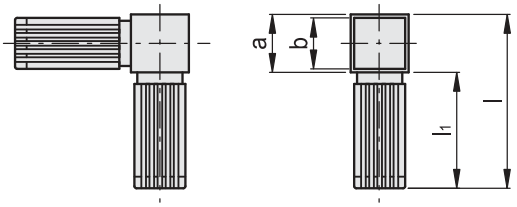
STC-1A



STC-2A



C9 RAL9005 C33 RAL7040

The drawing shows the assembled connector. The two tecnopolymer pieces composing it may have different shapes depending on the dimensions and / or executions.

STC-1A

Code	Description	Code	Description	a	b	l	l1	External tube diameter	Internal tube diameter	Thickness	Fmax [N]	⚖
430001	STC.20-1A-2W-C9	430004	STC.20-1A-2W-C33	20	17	50	45	20	17	1.5	-	46
430051	STC.25-1A-2W-C9	430049	STC.25-1A-2W-C33	25	22	70	54	25	22	1.5	-	100
430101	STC.30-1A-2W-C9	430104	STC.30-1A-2W-C33	30	26	76	46	30	26	2	-	107
430002	STC.20-1A-2W-R-C9	430005	STC.20-1A-2W-R-C33	20	17	50	45	20	17	1.5	2000	46
430052	STC.25-1A-2W-R-C9	430050	STC.25-1A-2W-R-C33	25	22	70	54	25	22	1.5	4000	100
430102	STC.30-1A-2W-R-C9	430105	STC.30-1A-2W-R-C33	30	26	76	46	30	26	2	4000	107

STC-2A

Code	Description	Code	Description	a	b	l	l1	External tube diameter	Internal tube diameter	Thickness	Fmax [N]	⚖
430011	STC.20-2A-2W-C9	430012	STC.20-2A-2W-C33	20	17	56	36	20	17	1.5	-	15
430061	STC.25-2A-2W-C9	430062	STC.25-2A-2W-C33	25	22	77	52	25	22	1.5	-	31
430111	STC.30-2A-2W-C9	430112	STC.30-2A-2W-C33	30	26	77	47	30	26	2	-	51
430016	STC.20-2A-3W-C9	430017	STC.20-2A-3W-C33	20	17	56	36	20	17	1.5	-	20
430066	STC.25-2A-3W-C9	430067	STC.25-2A-3W-C33	25	22	76	51	25	22	1.5	-	42
430116	STC.30-2A-3W-C9	430117	STC.30-2A-3W-C33	30	26	77	47	30	26	2	-	68
430021	STC.20-2A-4W-C9	430022	STC.20-2A-4W-C33	20	17	56	36	20	17	1.5	-	26
430071	STC.25-2A-4W-C9	430072	STC.25-2A-4W-C33	25	22	79	54	25	22	1.5	-	57
430121	STC.30-2A-4W-C9	430122	STC.30-2A-4W-C33	30	26	77	47	30	26	2	-	80
430013	STC.20-2A-2W-R-C9	430014	STC.20-2A-2W-R-C33	20	17	56	36	20	17	1.5	2000	89
430063	STC.25-2A-2W-R-C9	430064	STC.25-2A-2W-R-C33	25	22	77	52	25	22	1.5	4000	120
430113	STC.30-2A-2W-R-C9	430114	STC.30-2A-2W-R-C33	30	26	77	47	30	26	2	4000	139
430018	STC.20-2A-3W-R-C9	430019	STC.20-2A-3W-R-C33	20	17	56	36	20	17	1.5	2000	151
430068	STC.25-2A-3W-R-C9	430069	STC.25-2A-3W-R-C33	25	22	76	51	25	22	1.5	4000	162
430118	STC.30-2A-3W-R-C9	430119	STC.30-2A-3W-R-C33	30	26	77	47	30	26	2	4000	180
430023	STC.20-2A-4W-R-C9	430024	STC.20-2A-4W-R-C33	20	17	56	36	20	17	1.5	2000	205
430073	STC.25-2A-4W-R-C9	430074	STC.25-2A-4W-R-C33	25	22	79	54	25	22	1.5	4000	95
430123	STC.30-2A-4W-R-C9	430124	STC.30-2A-4W-R-C33	30	26	77	47	30	26	2	4000	130

STC-2A-SST

STAINLESS STEEL

Code	Description	Code	Description	a	b	l	l1	External tube diameter	Internal tube diameter	Thickness	Fmax [N]	⚖
430151	STC.25-2A-2W-R-SST-C9	430152	STC.25-2A-2W-R-SST-C33	25	22	77	52	25	22	1.5	4000	95
430171	STC.30-2A-2W-R-SST-C9	430172	STC.30-2A-2W-R-SST-C33	30	26	77	47	30	26	2	4000	115
430153	STC.25-2A-3W-R-SST-C9	430154	STC.25-2A-3W-R-SST-C33	25	22	76	51	25	22	1.5	4000	130
430173	STC.30-2A-3W-R-SST-C9	430174	STC.30-2A-3W-R-SST-C33	30	26	77	47	30	26	2	4000	156
430155	STC.25-2A-4W-R-SST-C9	430156	STC.25-2A-4W-R-SST-C33	25	22	79	54	25	22	1.5	4000	174
430175	STC.30-2A-4W-R-SST-C9	430176	STC.30-2A-4W-R-SST-C33	30	26	77	47	30	26	2	4000	196

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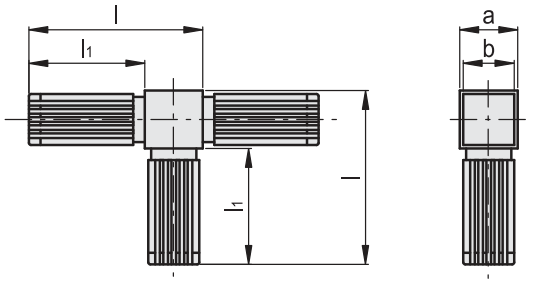

C9 RAL9005 C33 RAL7040

The drawing shows the assembled connector. The two tecnopolymer pieces composing it may have different shapes depending on the dimensions and / or executions.

STC-3A

Code	Description	Code	Description	d	a	b	l	l1	External tube diameter	Internal tube diameter	Thickness	Fmax [N]	⚖
430026	STC.20-3A-3W-C9	430027	STC.20-3A-3W-C33	-	20	17	56	36	20	17	1.5	-	19
430076	STC.25-3A-3W-C9	430077	STC.25-3A-3W-C33	-	25	22	77	52	25	22	1.5	-	46
430126	STC.30-3A-3W-C9	430127	STC.30-3A-3W-C33	-	30	26	77	47	30	26	2	-	68
430031	STC.20-3A-4W-C9	430032	STC.20-3A-4W-C33	-	20	17	56	36	20	17	1.5	-	25
430081	STC.25-3A-4W-C9	430082	STC.25-3A-4W-C33	-	25	22	77	52	25	22	1.5	-	56
430131	STC.30-3A-4W-C9	430132	STC.30-3A-4W-C33	-	30	26	77	47	30	26	2	-	86
430036	STC.20-3A-5W-C9	430037	STC.20-3A-5W-C33	-	20	17	56	36	20	17	1.5	-	30
430086	STC.25-3A-5W-C9	430087	STC.25-3A-5W-C33	-	25	22	79	54	25	22	1.5	-	69
430136	STC.30-3A-5W-C9	430137	STC.30-3A-5W-C33	-	30	26	77	47	30	26	2	-	96
430041	STC.20-3A-6W-C9	430042	STC.20-3A-6W-C33	-	20	17	56	36	20	17	1.5	-	41
430091	STC.25-3A-6W-C9	430092	STC.25-3A-6W-C33	-	25	22	77	52	25	22	1.5	-	87
430141	STC.30-3A-6W-C9	430142	STC.30-3A-6W-C33	-	30	26	77	47	30	26	2	-	113
430028	STC.20-3A-3W-R-C9	430029	STC.20-3A-3W-R-C33	-	20	17	56	36	20	17	1.5	2000	160
430078	STC.25-3A-3W-R-C9	430079	STC.25-3A-3W-R-C33	-	25	22	77	52	25	22	1.5	4000	174
430128	STC.30-3A-3W-R-C9	430129	STC.30-3A-3W-R-C33	-	30	26	77	47	30	26	2	4000	180
430033	STC.20-3A-4W-R-C9	430034	STC.20-3A-4W-R-C33	-	20	17	56	36	20	17	1.5	2000	212
430083	STC.25-3A-4W-R-C9	430084	STC.25-3A-4W-R-C33	-	25	22	77	52	25	22	1.5	4000	259
430133	STC.30-3A-4W-R-C9	430134	STC.30-3A-4W-R-C33	-	30	26	77	47	30	26	2	4000	115
430038	STC.20-3A-5W-R-C9	430039	STC.20-3A-5W-R-C33	-	20	17	56	36	20	17	1.5	2000	156
430088	STC.25-3A-5W-R-C9	430089	STC.25-3A-5W-R-C33	-	25	22	79	54	25	22	1.5	4000	196
430138	STC.30-3A-5W-R-C9	430139	STC.30-3A-5W-R-C33	-	30	26	77	47	30	26	2	4000	158
430043	STC.20-3A-6W-R-C9	430044	STC.20-3A-6W-R-C33	-	20	17	56	36	20	17	1.5	2000	204
430093	STC.25-3A-6W-R-C9	430094	STC.25-3A-6W-R-C33	-	25	22	77	52	25	22	1.5	4000	240
430143	STC.30-3A-6W-R-C9	430144	STC.30-3A-6W-R-C33	-	30	26	77	47	30	26	2	4000	285
430096	STC.25-3A-3W-R-M10-C9	430097	STC.25-3A-3W-R-M10-C33	M10x25	25	22	77	52	25	22	1.5	4000	136
430146	STC.30-3A-3W-R-M10-C9	430147	STC.30-3A-3W-R-M10-C33	M10x30	30	26	77	47	30	26	2	4000	158
430098	STC.25-3A-4W-R-M10-C9	430099	STC.25-3A-4W-R-M10-C33	M10x25	25	22	77	52	25	22	1.5	4000	174
430148	STC.30-3A-4W-R-M10-C9	430149	STC.30-3A-4W-R-M10-C33	M10x30	30	26	77	47	30	26	2	4000	204

STC-3A-SST

STAINLESS STEEL

Code	Description	Code	Description	a	b	l	l1	External tube diameter	Internal tube diameter	Thickness	Fmax [N]	⚖
430157	STC.25-3A-3W-R-SST-C9	430158	STC.25-3A-3W-R-SST-C33	25	22	77	52	25	22	1.5	4000	136
430177	STC.30-3A-3W-R-SST-C9	430178	STC.30-3A-3W-R-SST-C33	30	26	77	47	30	26	2	4000	158
430159	STC.25-3A-4W-R-SST-C9	430160	STC.25-3A-4W-R-SST-C33	25	22	77	52	25	22	1.5	4000	174
430179	STC.30-3A-4W-R-SST-C9	430180	STC.30-3A-4W-R-SST-C33	30	26	77	47	30	26	2	4000	204
430161	STC.25-3A-5W-R-SST-C9	430162	STC.25-3A-5W-R-SST-C33	25	22	79	54	25	22	1.5	4000	212
430181	STC.30-3A-5W-R-SST-C9	430182	STC.30-3A-5W-R-SST-C33	30	26	77	47	30	26	2	4000	240
430163	STC.25-3A-6W-R-SST-C9	430164	STC.25-3A-6W-R-SST-C33	25	22	77	52	25	22	1.5	4000	259
430183	STC.30-3A-6W-R-SST-C9	430184	STC.30-3A-6W-R-SST-C33	30	26	77	47	30	26	2	4000	285

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Square tube connectors

with adjustable angle, technopolymer

CONNECTOR

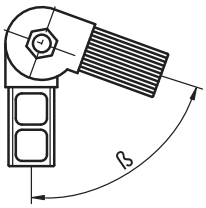
Polyamide based (PA) technopolymer, black colour, matte finish.

STANDARD EXECUTIONS

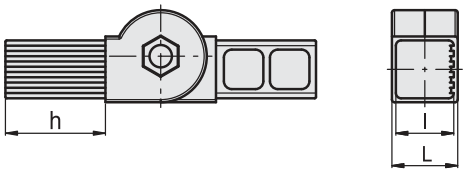
- **2A-2W**: bidimensional two-way connector.
- **3A-3W**: tridimensional three-way connector.

FEATURES AND APPLICATIONS

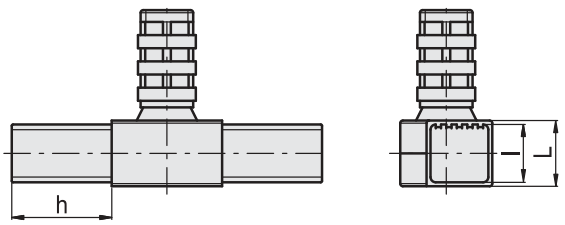
Suitable for creating structures composed by square profiles. The assembly can be performed simply by positioning the connector, forcing it, inside the profile, with no need of screws or other fasteners.



2A-2W



3A-3W



Code	Description	L	h	l	ß min-max	External tube diameter	Internal tube diameter	Thickness	⚖
430003	STC.20-2A-2W-A-C9	20	35	17	0-190	20	17	1.5	54
430053	STC.25-2A-2W-A-C9	25	38	22	45-195	25	22	1.5	64
430103	STC.25-3A-3W-A-C9	25	38	22	45-195	25	22	1.5	85

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End-caps for square tubes

with adjustable height levelling element, technopolymer

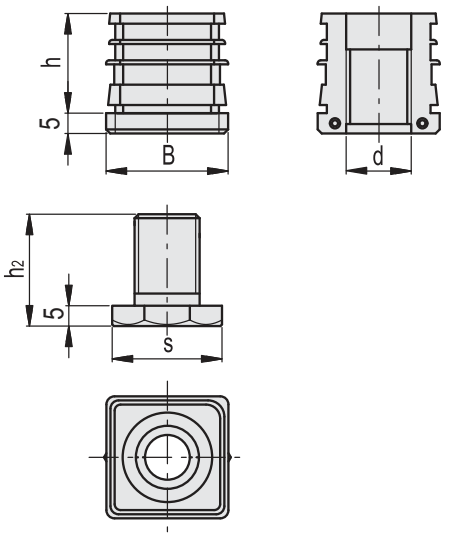
MATERIAL

Polyamide based (PA) technopolymer, black colour, matte finish.

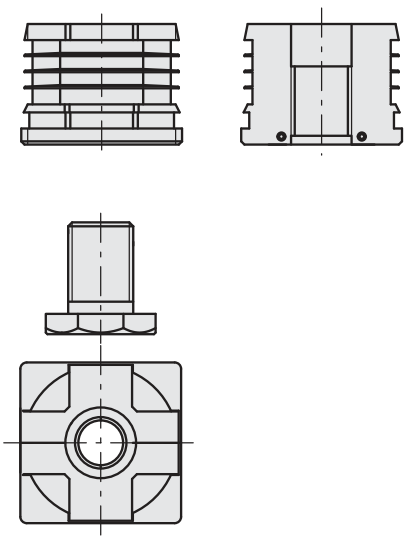
FEATURES AND APPLICATIONS

End-caps for square tubes with adjustable height levelling element. The assembly can be performed simply by positioning the end-cap, forcing it, inside the tube, with no need of screws or other fasteners.

NDA.Q-20 ÷ NDA.Q-25



NDA.Q-30 ÷ NDA.Q-50



The geometry of the end-cap in the part that is inserted into the tube may vary for the different dimensions.

Code	Description	B	d	h	h2	s	External tube diameter	Internal tube diameter min-max	Thickness min-max	Max. static load* [N]	⚖
430401	NDA.Q-20-M12x30	20	M12	34	32	SW19	20	17-16	1.5-2	1000	9
430406	NDA.Q-22-M12x30	22	M12	34	32	SW19	22	19-18	1.5-2	1000	11
430411	NDA.Q-25-M12x30	25	M12	34	32	SW19	25	22-21	1.5-2	1000	14
430416	NDA.Q-25-M16x30	25	M16	34	37	SW27	25	22-21	1.5-2	1500	15
430421	NDA.Q-30-M16x30	30	M16	25	37	SW27	30	27-26	1.5-2	1500	20
430426	NDA.Q-30-M22x30	30	M22	26	35	SW27	30	27-26	1.5-2	2500	16
430431	NDA.Q-35-M22x30	35	M22	34	35	SW27	35	32-31	1.5-2	2500	21
430436	NDA.Q-40-M22x30	40	M22	33	35	SW27	40	37-36	1.5-2	2500	30
430441	NDA.Q-45-M22x30	45	M22	34	35	SW27	45	42-41	1.5-2	2500	34
430446	NDA.Q-50-M22x30	50	M22	34	35	SW27	50	48-47	1-1.5	2500	42

***** The value refers to laboratory tests carried out with a load applied vertically to the leveling element unscrewed from the end-cap of 10 mm and leaning on a flat surface. The max limit static load is the value above which the load applied to the element may cause some plastic material breakage, under particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

End-caps for round tubes

with adjustable height levelling element, technopolymer

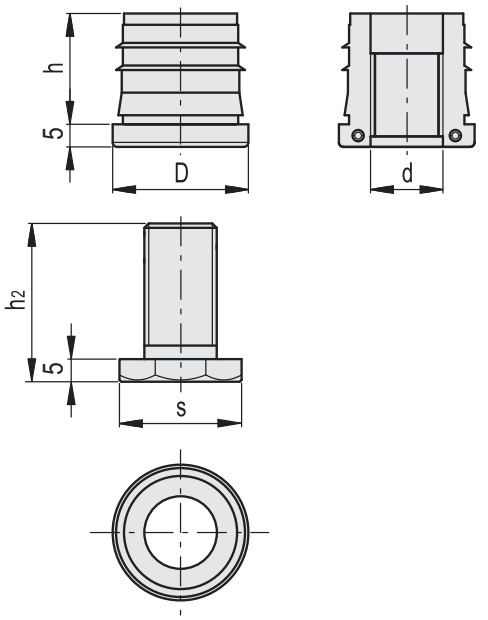
MATERIAL

Polyamide based (PA) technopolymer, black colour, matte finish.

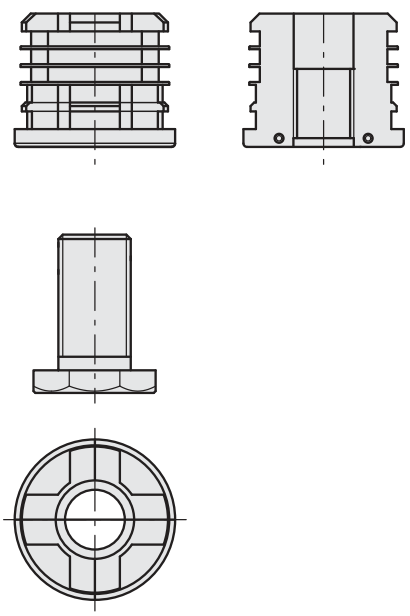
FEATURES AND APPLICATIONS

End-caps for round tubes with adjustable height levelling element. The assembly can be performed simply by positioning the end-cap, forcing it, inside the tube, with no need of screws or other fasteners.

NDA.T-20 ÷ NDA.T-40



NDA.T-45 ÷ NDA.T-50



The geometry of the end-cap in the part that is inserted into the tube may vary for the different dimensions.

Code	Description	D	d	h	h2	s	External tube diameter	Internal tube diameter min-max	Thickness min-max	Max. static load* [N]	⚖
430471	NDA.T-20-M12x30	20	M12	34	32	SW19	20	18-17	1-1.5	1000	8
430476	NDA.T-22-M12x30	22	M12	34	32	SW19	22	20-19	1-1.5	1000	9
430481	NDA.T-25-M12x30	25	M12	34	32	SW19	25	23-21	1-2	1000	11
430486	NDA.T-28-M16x30	28	M16	34	37	SW27	28	26-24	1-2	1500	15
430491	NDA.T-30-M16x30	30	M16	27	37	SW27	30	27-26	1.5-2	1500	18
430496	NDA.T-30-M22x30	30	M22	27	35	SW27	30	27-26	1.5-2	2500	14
430501	NDA.T-32-M22x30	32	M22	34	35	SW27	32	30-28	1-2	2500	17
430506	NDA.T-35-M22x30	35	M22	34	35	SW27	35	32.6-31	1.2-2	2500	21
430511	NDA.T-38-M22x30	38	M22	34	35	SW27	38	35-34	1.5-2	2500	23
430516	NDA.T-40-M22x30	40	M22	34	35	SW27	40	38-36	1-2	2500	28
430521	NDA.T-45-M22x30	45	M22	34	35	SW27	45	42-41	1.5-2	2500	31
430526	NDA.T-50-M22x30	50	M22	34	35	SW27	50	47-46	1.5-2	2500	36

***** The value refers to laboratory tests carried out with a load applied vertically to the leveling element unscrewed from the end-cap of 10 mm and leaning on a flat surface. The max limit static load is the value above which the load applied to the element may cause some plastic material breakage, under particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value.

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Square tube expander end-caps

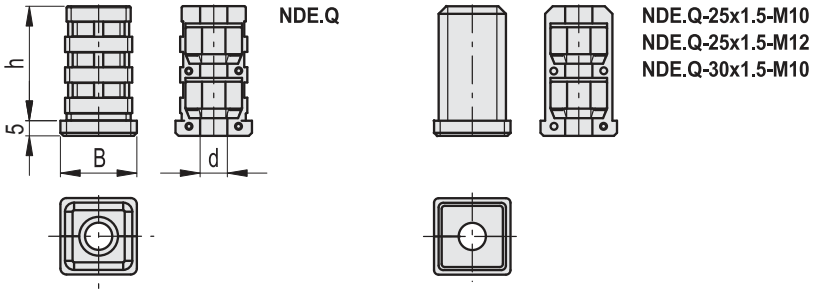
Technopolymer

END-CAP
Polyamide based (PA) technopolymer, black colour, matte finish.

STANDARD EXECUTION
DIN 934 zinc-plated steel nuts (included in the supply).

FEATURES AND APPLICATIONS
The two end-cap parts have some reference pins which are housed in special counter-seats. Two cavities inside the end-cap are provided for housing two hexagonal nuts DIN 934.
Thanks to the tapered shape of the cavity, the end-cap exerts a pressure on the inner walls of the tube, due to the tightening of the nuts, thus ensuring the tensile strength of the connection.
The level of the tensile strength depends on the tube dimensional tolerances, the condition of the tube inner surfaces and the tightening torque applied.
The end-cap enables the joining of square tubes with other elements or the installation of wheels or levelling elements with locking nut.
The installation of a simple levelling element does not enable the expansion of the end-cap: for this kind of applications the use of NDL.Q (see page 1321) end-caps is a more proper alternative.
The assembly can be performed simply by positioning the end-cap inside the tube, with no need of screws or other fasteners.

SPECIAL EXECUTIONS ON REQUEST
End-cap without nuts or assembled with only one nut DIN 934.



NDE.Q

NDE.Q-25x1.5-M10
NDE.Q-25x1.5-M12
NDE.Q-30x1.5-M10

The geometry of the end-cap in the part that is inserted into the tube may vary for the different dimensions.

Code	Description	B	d	h	External tube diameter	Internal tube diameter	Thickness	Max. static load* [N]	⚖
430751	NDE.Q-20x1.5-M8	20	M8	37	20	17	1.5	3000	17
430761	NDE.Q-25x1.5-M8	25	M8	36	25	22	1.5	3000	23
430763	NDE.Q-25x1.5-M10	25	M10	37	25	22	1.5	3000	33
430765	NDE.Q-25x1.5-M12	25	M12	37	25	22	1.5	3000	41
430771	NDE.Q-30x1.5-M8	30	M8	37	30	27	1.5	3000	32
430773	NDE.Q-30x1.5-M10	30	M10	37	30	27	1.5	3000	44
430775	NDE.Q-30x2-M8	30	M8	37	30	26	2	3000	31
430777	NDE.Q-30x2-M10	30	M10	37	30	26	2	3000	42
430781	NDE.Q-35x1.6-M10	35	M10	37	35	31.8	1.6	3000	49
430783	NDE.Q-35x2-M10	35	M10	37	35	31	2	3000	49
430791	NDE.Q-40x1.5-M10	40	M10	37	40	37	1.5	3000	58
430793	NDE.Q-40x2-M10	40	M10	37	40	36	2	3000	59
430795	NDE.Q-40x2-M12	40	M12	37	40	36	2	3000	65
430797	NDE.Q-40x3-M10	40	M10	37	40	34	3	3000	55
430801	NDE.Q-50x1.5-M10	50	M10	37	50	47	1.5	3000	86
430803	NDE.Q-50x1.5-M12	50	M12	37	50	47	1.5	3000	93
430805	NDE.Q-50x2-M12	50	M12	37	50	46	2	3000	90
430811	NDE.Q-60x2-M10	60	M10	33	60	56	2	3000	115
430813	NDE.Q-60x2.5-M10	60	M10	36	60	55	2.5	3000	107

***** The max limit static load is the value above which the load applied to the element may cause some plastic material breakage, under particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value. The values shown in the table refer to the use of the end-cap in combination with a steel tube. The use of an aluminum tube may cause a decrease in the max limit static load equal to 25% due to possible deformations of the tube section under load.

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Round tube expander end-caps

Technopolymer

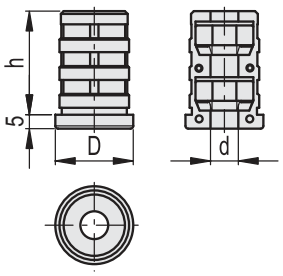
MATERIAL
Polyamide based (PA) technopolymer, black colour, matte finish.

STANDARD EXECUTION
DIN 934 zinc-plated steel nuts (included in the supply).

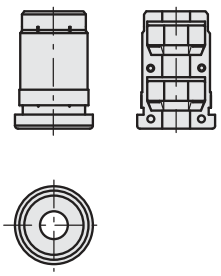
FEATURES AND APPLICATIONS
The two end-cap parts have some reference pins which are housed in special counter-seats. Two cavities inside the end-cap are provided for housing two hexagonal nuts DIN 934.
Thanks to the tapered shape of the cavity, the end-cap exerts a pressure on the inner walls of the tube, due to the tightening of the nuts, thus ensuring the tensile strength of the connection.
The level of the tensile strength depends on the tube dimensional tolerances, the condition of the tube inner surfaces and the tightening torque applied.
The end-cap enables the joining of round tubes with other elements or the installation of wheels or levelling elements with locking nut.
The installation of a simple levelling element does not enable the expansion of the end-cap: for this kind of applications the use of NDL.T (see page 1322) end-caps is a more proper alternative.
The assembly can be performed simply by positioning the end-cap inside the tube, with no need of screws or other fasteners.

SPECIAL EXECUTIONS ON REQUEST
End-cap without nuts or assembled with only one nut DIN 934.

NDE.T



NDE.T-25x1.5-M10



The geometry of the end-cap in the part that is inserted into the tube may vary for the different dimensions.

Code	Description	D	d	h	External tube diameter	Internal tube diameter	Thickness	Max. static load* [N]	⚖
430851	NDE.T-20x1.5-M8	20	M8	37	20	17	1.5	3000	14
430861	NDE.T-25x1-M10	25	M10	37	25	23	1	3000	30
430863	NDE.T-25x1.5-M8	25	M8	37	25	22	1.5	3000	19
430865	NDE.T-25x1.5-M10	25	M10	37	25	22	1.5	3000	29
430871	NDE.T-28x1.5-M8	28	M8	37	28	25	1.5	3000	26
430873	NDE.T-28x1.5-M10	28	M10	42	28	25	1.5	3000	33
430875	NDE.T-28x2-M10	28	M10	37	28	24	2	3000	31
430881	NDE.T-30x1.5-M10	30	M10	36.5	30	27	1.5	3000	36
430883	NDE.T-30x2-M8	30	M8	36	30	26	2	3000	26
430885	NDE.T-30x2-M10	30	M10	36	30	26	2	3000	34
430891	NDE.T-32x1.5-M8	32	M8	37	32	29	1.5	3000	31
430893	NDE.T-32x1.5-M10	32	M10	37	32	29	1.5	3000	39
430901	NDE.T-35x1.5-M10	35	M10	36	35	32	1.5	3000	43
430903	NDE.T-35x2-M10	35	M10	37	35	31	2	3000	42
430905	NDE.T-35x2.5-M10	35	M10	37	35	30	2.5	3000	41
430911	NDE.T-40x2-M8	40	M8	36	40	36	2	3000	41
430913	NDE.T-40x2-M10	40	M10	37	40	36	2	3000	50
430921	NDE.T-50x1.5-M10	50	M10	37	50	47	1.5	3000	71
430923	NDE.T-50x1.5-M12	50	M12	37	50	47	1.5	3000	71
430925	NDE.T-50x2-M10	50	M10	37	50	46	2	3000	64

***** The max limit static load is the value above which the load applied to the element may cause some plastic material breakage, under particular conditions of use. Obviously, a factor that takes into consideration the importance and the safety level of the specific application must be applied to this value. The values shown in the table refer to the use of the end-cap in combination with a steel tube. The use of an aluminum tube may cause a decrease in the max limit static load equal to 25% due to possible deformations of the tube section under load.

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Round tube expander connectors

Technopolymer

MATERIAL

Polyamide based (PA) technopolymer, black colour, matte finish.

FEATURES AND APPLICATIONS

The two connector parts are connected together by means of pins which are housed in special counter-seats. Two cavities inside the connector are provided for housing an hexagonal-head screw or an hexagonal nut. Thanks to the tapered shape of the cavity, the connector exerts a pressure on the inner walls of the tube, due to the tightening of the screw or of the nut, thus ensuring the tensile strength of the connection. The level of the tensile strength depends on the tube dimensional tolerances, the roughness of the tube inner surfaces and the tightening torque applied.
The connector allows the joining of round tubes to one another or to other elements.
The assembly can be performed simply by positioning the connector, forcing it, inside the profile, with no need of screws or other fasteners.

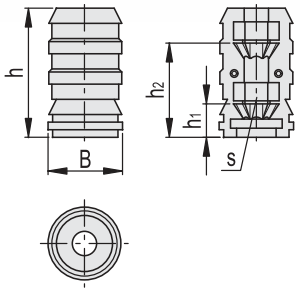
ASSEMBLY OF THE TUBE TO THE CONNECTOR

It can be made as an alternative with:
- Hexagonal-head screw DIN 933 of dimension as shown in the table.
- Hexagonal nut DIN 934 of dimension as shown in the table.
- Self-locking hexagonal nut DIN 985 of dimension as shown in the table.

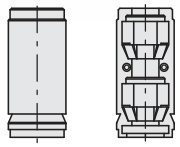
SPECIAL EXECUTIONS ON REQUEST

Connector assembled with nut or screw.

RTE



RTE.20x1.5-M8



The geometry of the end-cap in the part that is inserted into the tube may vary for the different dimensions.

Code	Description	B	h	h1	h2	s	External tube diameter	Internal tube diameter	Thickness	⚖
430301	RTE.20x1.0-M8	18	42	10	30	13	20	18	1	6
430303	RTE.20x1.5-M6	17	42	12	32	10	20	17	1.5	7
430305	RTE.20x1.5-M8	17	42	10	30	13	20	17	1.5	5
430311	RTE.22x1.0-M6	20	42	12	32	10	22	20	1	9
430313	RTE.22x1.0-M8	20	42	10	30	13	22	20	1	7
430321	RTE.22x1.2-M8	19.6	42	10	30	13	22	19.6	1.2	7
430323	RTE.22x1.5-M6	19	42	12	32	10	22	19	1.5	9
430325	RTE.22x1.5-M8	19	42	10	30	13	22	19	1.5	6
430331	RTE.25x1.0-M6	23	42	12	32	10	25	23	1	12
430333	RTE.25x1.5-M6	22	42	12	32	10	25	22	1.5	11
430335	RTE.25x1.5-M8	22	42	10	30	13	25	22	1.5	9
430341	RTE.28x1.5-M6	25	41	12	32	10	28	25	1.5	17
430343	RTE.28x1.5-M8	25	42	10	30	13	28	25	1.5	15
430345	RTE.28x2.0-M8	24	42	10	30	13	28	24	2	14
430351	RTE.30x1.0-M8	28	42	10	30	13	30	28	1	17
430353	RTE.30x1.5-M8	27	42	10	30	13	30	27	1.5	17
430355	RTE.30x1.5-M10	27	42	10	30	17	30	27	1.5	14
430357	RTE.30x2.0-M8	26	42	10	30	13	30	26	2	15
430359	RTE.30x2.0-M10	26	42	10	30	17	30	26	2	13
430361	RTE.32x1.2-M6	29.6	42	12	32	10	32	29.6	1.2	23
430363	RTE.32x1.5-M10	29	42	10	30	17	32	29	1.5	18
430365	RTE.32x2.0-M6	28	41.5	12	32	10	32	28	2	22
430367	RTE.32x2.0-M10	28	42	10	30	17	32	28	2	16
430369	RTE.32x2.5-M10	27	42	10	30	17	32	27	2.5	15
430371	RTE.35x1.5-M6	32	40	12	32	10	35	32	1.5	27
430373	RTE.35x1.5-M10	32	42	10	29	17	35	32	1.5	22
430375	RTE.35x2.0-M10	31	42	10	30	17	35	31	2	20
430377	RTE.35x2.5-M6	30	42	12	32	10	35	30	2.5	20
430381	RTE.40x1.5-M8	37	42	10	30	13	40	37	1.5	33
430383	RTE.40x1.5-M10	37	42	10	30	17	40	37	1.5	31
430385	RTE.40x2.0-M10	36	42	10	30	17	40	36	2	28
430387	RTE.40x2.5-M6	35	43	12	32	10	40	35	2.5	21

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Square tube expander connectors

Technopolymer

MATERIAL

Polyamide based (PA) technopolymer, black colour, matte finish.

FEATURES AND APPLICATIONS

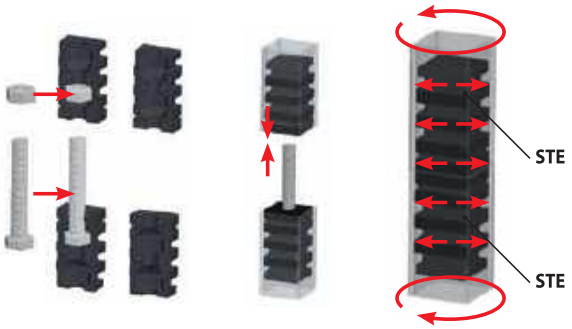
The two connector parts are connected together by means of pins which are housed in special counter-seats. Two cavities inside the connector are provided for housing an hexagonal-head screw or an hexagonal nut. Thanks to the tapered shape of the cavity, the connector exerts a pressure on the inner walls of the tube, due to the tightening of the screw or of the nut, thus ensuring the tensile strength of the connection. The level of the tensile strength depends on the tube dimensional tolerances, the roughness of the tube inner surfaces and the tightening torque applied. The connector has no collar and allows the joining of square tubes to other elements.
The assembly can be performed simply by positioning the connector inside the tube, with no need of screws or other fasteners.

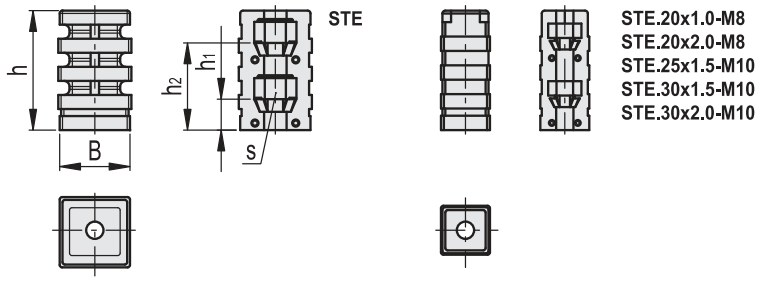
ASSEMBLY OF THE TUBE TO THE CONNECTOR

It can be made as an alternative with:
- Hexagonal-head screw DIN 933 of dimension as shown in the table.
- Hexagonal nut DIN 934 of dimension as shown in the table.
- Self-locking hexagonal nut DIN 985 of dimension as shown in the table.

SPECIAL EXECUTIONS ON REQUEST

Connector assembled with nut or screw.





The geometry of the end-cap in the part that is inserted into the tube may vary for the different dimensions.

Code	Description	B	h	h1	h2	s	External tube diameter	Internal tube diameter	Thickness	⚖
430201	STE.20x1.0-M6	18	42	12	32	10	20	18	1	9
430203	STE.20x1.0-M8	18	43	10	30	13	20	18	1	9
430205	STE.20x1.5-M6	17	42	12	32	10	20	17	1.5	10
430207	STE.20x1.5-M8	17	42	10	30	13	20	17	1.5	8
430209	STE.20x2.0-M8	16	43	10	30	13	20	16	2	6
430215	STE.22x1.5-M6	19	41	12	32	10	22	19	1.5	12
430217	STE.22x1.5-M8	19	42	10	30	13	22	19	1.5	10
430223	STE.25x1.5-M8	22	42	10	30	13	25	22	1.5	13
430225	STE.25x1.5-M10	22	42	10	30	17	25	22	1.5	12
430227	STE.25x2.0-M8	21	43	10	30	13	25	21	2	12
430233	STE.30x1.5-M10	27	42	10	30	17	30	27	1.5	22
430235	STE.30x2.0-M8	26	41	10	30	13	30	26	2	20
430237	STE.30x2.0-M10	26	41	10	30	17	30	26	2	20
430241	STE.35x2.0-M10	31	42	10	30	17	35	31	2	27
430251	STE.40x1.2-M10	37.6	40	10	30	17	40	37.6	1.2	41
430253	STE.40x1.2-M12	37.6	40	8	28	19	40	37.6	1.2	39
430255	STE.40x2.0-M10	36	42	10	30	17	40	36	2	36
430257	STE.40x3.0-M8	34	42	11	30	13	40	34	3	35
430259	STE.40x3.0-M10	34	41	10	30	17	40	34	3	32

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Ribbed tube end plugs

Polyethylene

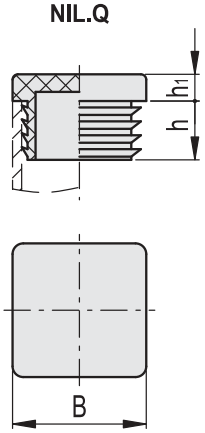
MATERIAL
Polyethylene (PE), RAL 9005 (C9) black colour or RAL 7042 (C34) grey colour, satin finish.

STANDARD EXECUTIONS
- **NIL.Q**: for square tubes.
- **NIL.R**: for rectangular tubes.
- **NIL.T**: for round tubes.

FITTING
Their fitting to the round, square or rectangular section tube or profile ends can be made either by hand or by a mallet.

SPECIAL EXECUTIONS ON REQUEST
RAL 9003 white coloured inserts.

NIL.Q



* Complete with colour index, example: 435210-C9 NIL.Q-10-C9

C9 RAL9005 C34 RAL7042

NIL.Q

Code	Description	B	h	h1	External tube diameter	Thickness
435210-*	NIL.Q-10-*	10	12	4	10	0,8÷2,5
435212-*	NIL.Q-12-*	12	12	4	12	1÷2
435213-*	NIL.Q-13-*	13	12	4	13	0,5÷2
435215-*	NIL.Q-15-*	15	14	3	15	1÷2
435216-*	NIL.Q-16-*	16	11.5	5	16	1÷2,5
435218-*	NIL.Q-18-*	18	11.5	5	18	1,5÷3
435220-*	NIL.Q-20-*	20	11.5	5	20	1÷3
435222-*	NIL.Q-22-*	22	12	5	22	1÷3,5
435225-*	NIL.Q-25-*	25	11.5	5	25	1÷3
435228-*	NIL.Q-28-*	28	11.5	5	28	1÷3
435230-*	NIL.Q-30-*	30	11.5	5	30	1÷3
435232-*	NIL.Q-32-*	32	11.5	5	32	1÷3,5
435234-*	NIL.Q-34-*	34	14.5	5	34	1÷3
435235-*	NIL.Q-35-*	35	14.5	5	35	1÷3
435238-*	NIL.Q-38-*	38	14.5	5	38	1÷3,5
435240-*	NIL.Q-40-*	40	14.5	5	40	1÷3
435245-*	NIL.Q-45-*	45	14.5	5	45	1÷3

NIL.Q

Code	Description	B	h	h1	External tube diameter	Thickness
435250-*	NIL.Q-50-*	50	14.5	5	50	1÷2,5
435370-*	NIL.Q-50-2.6-*	50	25	6.5	50	2.6÷4
435255-*	NIL.Q-55-*	55	14.5	5	55	2÷4,5
435260-*	NIL.Q-60-*	60	24	5	60	1,5÷3,5
435265-*	NIL.Q-65-*	65	21	5	65	1÷3
435270-*	NIL.Q-70-*	70	19	5	70	2÷5
435275-*	NIL.Q-75-*	75	21	6	75	2÷4,5
435276-*	NIL.Q-76,2-*	76.2	21	6	76.2	2,5÷5
435280-*	NIL.Q-80-*	80	21	6	80	1,5÷4
435290-*	NIL.Q-90-*	90	25	6	90	3÷5
435295-*	NIL.Q-95-*	95	21.5	6	95	3,5÷5,5
435300-*	NIL.Q-100-*	100	24	7	100	1÷4
435310-*	NIL.Q-110-*	110	24	6	110	3÷5
435320-*	NIL.Q-120-*	120	25	5	120	2,5÷6
435340-*	NIL.Q-140-*	140	34	6	140	4÷7
435350-*	NIL.Q-150-*	150	27	6	150	5÷8

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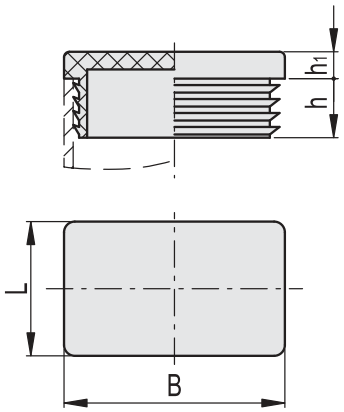
NIL.R



* Complete with colour index, example: 435410-C9 NIL.R-20x10-C9

C9 RAL9005 C34 RAL7042

NIL.R

Code	Description	B	L	h	h1	External tube diameter	Thickness
435410-*	NIL.R-20x10-*	20	10	11	3	20x10	0,8÷2
435411-*	NIL.R-20x15-*	20	15	11.5	5	20x15	1÷2
435430-*	NIL.R-25x10-*	25	10	11.5	3	25x10	0,8÷2
435431-*	NIL.R-25x15-*	25	15	11.5	5	25x15	1÷2,5
435432-*	NIL.R-25x20-*	25	20	11.5	5	25x20	1÷3
435450-*	NIL.R-30x10-*	30	10	11.5	5	30x10	1÷2
435451-*	NIL.R-30x15-*	30	15	11.5	5	30x15	1÷2,5
435452-*	NIL.R-30x20-*	30	20	11.5	5	30x20	1÷3
435470-*	NIL.R-35x10-*	35	10	11.5	5	35x10	1÷2
435471-*	NIL.R-35x20-*	35	20	11.5	5	35x20	1÷2,5
435472-*	NIL.R-35x25-*	35	25	11.5	5	35x25	1÷3
435490-*	NIL.R-40x15-*	40	15	12	5	40x15	1÷2
435491-*	NIL.R-40x20-*	40	20	12	5	40x20	1÷3
435492-*	NIL.R-40x25-*	40	25	11.5	5	40x25	1÷3
435493-*	NIL.R-40x30-*	40	30	12	5	40x30	1÷3
435494-*	NIL.R-40x35-*	40	35	12	5	40x35	1÷3
435510-*	NIL.R-45x15-*	45	15	11	5	45x15	1,5÷2
435511-*	NIL.R-45x20-*	45	20	11.5	5	45x20	1÷3
435512-*	NIL.R-45x25-*	45	25	12	5	45x25	1÷3
435513-*	NIL.R-45x30-*	45	30	12	5	45x30	1÷2,5
435514-*	NIL.R-45x35-*	45	35	12	5	45x35	1÷3,5
435530-*	NIL.R-50x20-*	50	20	14	5	50x20	1÷3
435531-*	NIL.R-50x25-*	50	25	14.5	5	50x25	1÷3
435532-*	NIL.R-50x30-*	50	30	13.5	5	50x30	1÷3
435533-*	NIL.R-50x35-*	50	35	14.5	5	50x35	1÷3,5

NIL.R

Code	Description	B	L	h	h1	External tube diameter	Thickness
435534-*	NIL.R-50x40-*	50	40	15	5	50x40	1,5÷3
435550-*	NIL.R-60x20-*	60	20	14.5	5	60x20	1÷3
435551-*	NIL.R-60x25-*	60	25	15	5	60x25	1÷3
435552-*	NIL.R-60x30-*	60	30	15	5	60x30	1÷2,5
435553-*	NIL.R-60x35-*	60	35	15	5	60x35	1,5÷3,5
435554-*	NIL.R-60x40-*	60	40	14	5	60x40	1÷3
435555-*	NIL.R-60x45-*	60	45	15	5	60x45	1,5÷4
435556-*	NIL.R-60x50-*	60	50	14.5	5	60x50	1,5÷3,5
435570-*	NIL.R-70x20-*	70	20	19	5	70x20	1÷3,5
435571-*	NIL.R-70x25-*	70	25	18	5	70x25	1,5÷2,5
435572-*	NIL.R-70x30-*	70	30	15	5	70x30	1÷3
435573-*	NIL.R-70x35-*	70	35	15	5	70x35	1,5÷3,5
435574-*	NIL.R-70x40-*	70	40	20	5	70x40	1,5÷3
435590-*	NIL.R-80x20-*	80	20	18	5	80x20	1÷3
435591-*	NIL.R-80x30-*	80	30	14.5	5	80x30	1÷2,5
435592-*	NIL.R-80x40-*	80	40	14.5	5	80x40	1÷3
435593-*	NIL.R-80x50-*	80	50	22	5	80x50	1,5÷4
435594-*	NIL.R-80x60-*	80	60	25	5	80x60	1,5÷3,5
435610-*	NIL.R-90x20-*	90	20	14.5	5	90x20	1÷2,5
435611-*	NIL.R-90x40-*	90	40	15	5	90x40	2÷4
435612-*	NIL.R-90x50-*	90	50	22	5	90x50	2÷4,5
435630-*	NIL.R-100x30-*	100	30	15	5	100x30	1,5÷3,5
435631-*	NIL.R-100x40-*	100	40	14.5	5	100x40	1,5÷4
435632-*	NIL.R-100x50-*	100	50	24	5	100x50	1,5÷4,5
435633-*	NIL.R-100x60-*	100	60	25	6	100x60	1,5÷4,5

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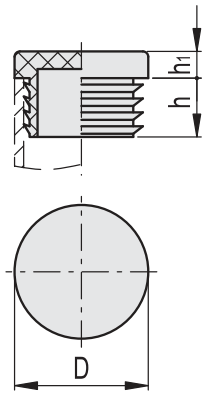
NIL.T



* Complete with colour index, example: 435010-C9 NIL.T-10-C9

C9 RAL9005

C34 RAL7042

NIL.T

Code	Description	D	h	h1	External tube diameter	Thickness
435010-*	NIL.T-10-*	10	11	3.5	10	1÷2
435012-*	NIL.T-12-*	12	11	3.5	12	1÷2
435013-*	NIL.T-13-*	13	11	4	13	1÷2
435014-*	NIL.T-14-*	14	11.5	5	14	1÷2
435015-*	NIL.T-15-*	15	11.5	3	15	1÷2
435016-*	NIL.T-16-*	16	11	5	16	1÷2
435018-*	NIL.T-18-*	18	11.5	5	18	1÷2
435019-*	NIL.T-19-*	19	11.5	5	19	1÷2,5
435020-*	NIL.T-20-*	20	11.5	5	20	1÷2,5
435022-*	NIL.T-22-*	22	11.5	5	22	1÷2
435023-*	NIL.T-23-*	23	11.5	5	23	1÷2,5
435024-*	NIL.T-24-*	24	11.5	5	24	1÷2,5
435025-*	NIL.T-25-*	25	11.5	5	25	1÷3
435026-*	NIL.T-26-*	26	11.5	5	26	1÷3
435027-*	NIL.T-27-*	27	11.5	5	27	1÷3
435028-*	NIL.T-28-*	28	11.5	5	28	1÷3
435030-*	NIL.T-30-*	30	11.5	5	30	1÷2,5
435032-*	NIL.T-32-*	32	12	5	32	1÷3
435034-*	NIL.T-34-*	34	11.5	5	34	1÷3
435035-*	NIL.T-35-*	35	11.5	5	35	1÷3
435036-*	NIL.T-36-*	36	11.5	5	36	1÷3
435037-*	NIL.T-37-*	37	11.5	5	37	1÷3

NIL.T

Code	Description	D	h	h1	External tube diameter	Thickness
435040-*	NIL.T-40-*	40	11.5	5	40	1÷3
435042-*	NIL.T-42-*	42	11.5	5	42	1÷3
435045-*	NIL.T-45-*	45	11	5	45	1÷3
435046-*	NIL.T-46-*	46	11.5	5	46	1,5÷3,5
435048-*	NIL.T-48-*	48	11.5	5	48	1,2÷3,6
435050-*	NIL.T-50-*	50	14.5	5	50	1÷2,5
435150-*	NIL.T-50-2.5-*	50	11.5	5	50	2,5÷4.5
435052-*	NIL.T-52-*	52	14.5	5	52	1,5÷3,5
435055-*	NIL.T-55-*	55	11.5	5	55	1÷3
435155-*	NIL.T-55-3-*	55	14.5	5	55	3÷5
435060-*	NIL.T-60-*	60	14.5	5	60	1,5÷3
435160-*	NIL.T-60-3-*	60	17.5	5	60	3÷5
435065-*	NIL.T-65-*	65	14.5	5	65	1,5÷3,5
435070-*	NIL.T-70-*	70	21	5	70	1,5÷3,5
435075-*	NIL.T-75-*	75	21.5	6	75	1÷3,5
435076-*	NIL.T-76-*	76	21.5	6	76	1,6÷4
435080-*	NIL.T-80-*	80	22	5	80	1,5÷3
435085-*	NIL.T-85-*	85	21	6	85	1,5÷4
435088-*	NIL.T-88-*	88	21.5	6	88	1,5÷4
435090-*	NIL.T-90-*	90	21	6	90	1,5÷5
435095-*	NIL.T-95-*	95	21	6	95	1,5÷4
435110-*	NIL.T-100-*	100	28.5	6	100	2÷4,5

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Mounts for levelling feet

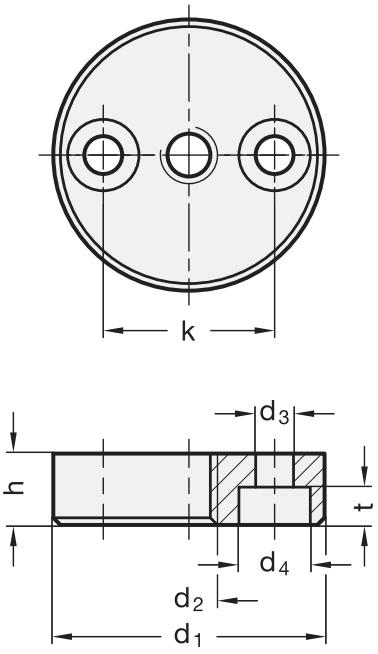
SPECIFICATION

Steel

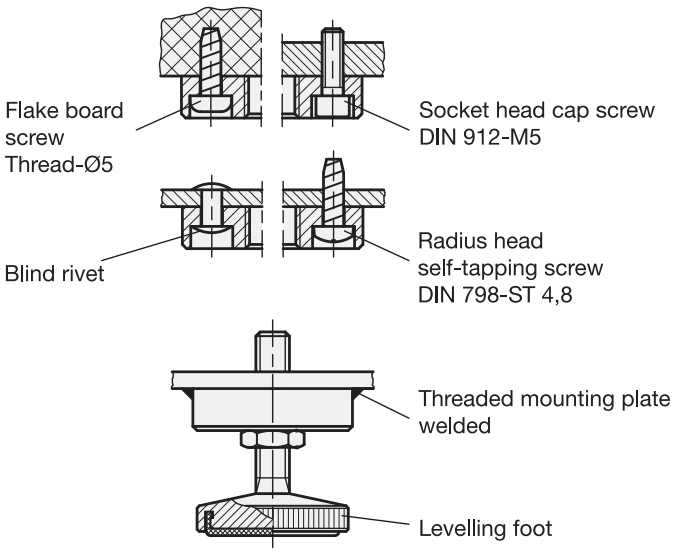
- weldable
- blackened

INFORMATION

GN 349 mounts are used on levelling feet particularly in such cases where a machine shrouding is made of very thin sheet metal.



Installation example/ Mounting possibilities



GN 349

Description	d1	d2	d3	d4	h	k	t	⚖
GN 349-36-M8	36	M 8	5.3	10	10	24	5.3	67
GN 349-36-M10	36	M 10	5.3	10	10	24	5.3	65
GN 349-36-M12	36	M 12	5.3	10	10	24	5.3	63

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Adapter for PC support clamp for round tubes

Technopolymer

ELESA Original design

MATERIAL

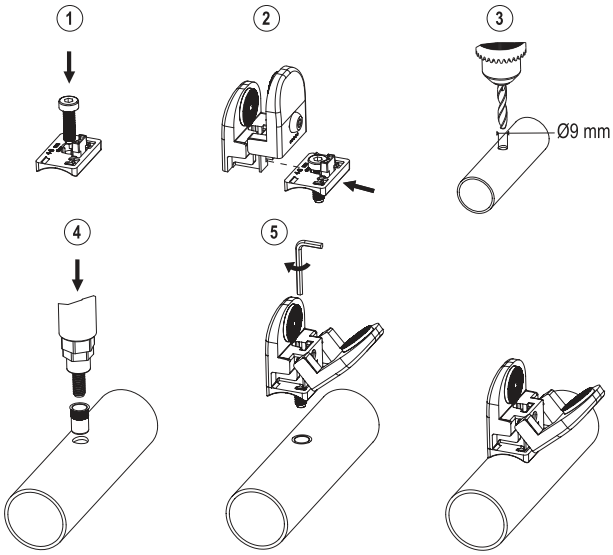
Glass-fibre reinforced polyamide based (PA) technopolymer, RAL 7042 grey colour, matte finish.

FEATURES AND APPLICATIONS

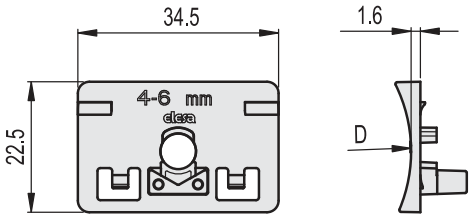
Kit for installation of PC support clamp on round tubes (thickness max. = 2 mm). The kit includes a technopolymer adapter, a M6 zinc-plated steel threaded insert to install with a normal riveter on the tube and a M6 cylindrical head screw.
The adapters give the best aesthetic result for panels of thickness between 4 and 6 mm and tubes with diameters as follows:
- 30÷34 mm
- 40÷43 mm
- 48÷52 mm.

ASSEMBLY INSTRUCTIONS

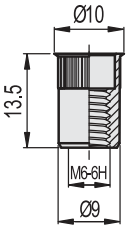
- Insert the M6 shorted cylindrical head screw with DIN 7984 hexagon socket into the plastic adapter.
- Insert the adapter into the slot of PC until the catch bracket clicks into position.
- Drill a hole in the tube of 9 mm.
- Fit the threaded insert on the tube with a riveter.
- Install the support clamp on the tube by tightening the screw into the threaded insert.



Adapter



Threaded insert



Code	Description	D	For tubes Ø	⚖
49291	APC.30-34	34	30 ÷ 34	5
49293	APC.40-43	43	40 ÷ 43	5
49295	APC.48-52	52	48 ÷ 52	5

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Panel support clamp

Technopolymer

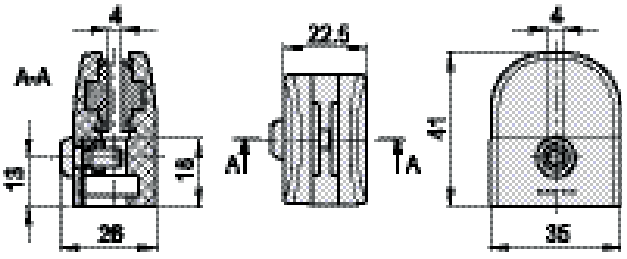
MATERIAL
Glass-fibre reinforced polyamide based (PA) technopolymer, RAL 7042 grey colour, matte finish.

PADS
Thermoplastic elastomer, hardness 80, Shore A, overmoulded.

ADJUSTING SPACERS (INCLUDED IN THE SUPPLY)
Polyamide based (PA) technopolymer, RAL 7042 grey colour clamp, for fastening panels with thickness higher than 4 mm.
Once it is engaged in the housing, the spacer is constrained to the clamp by means of an undercut.

FEATURES AND APPLICATIONS
- The product is in compliance with the Machine Directive (2006/42/CE) that provides for the retention of all the clamping elements in the open position too. (ELESA patent) The two parts of the tightening clamp are connected thanks to an articulated joint and they have got a seat for housing a screw and a M5 nut, which are retaining as well.
- The special dimensions of the clamp allow its assembly on profiles with a width of 25 mm or higher.
- The panel assembly into the clamp does not require any drilling which may cause cracks in the panel.
- The pads deform upon tightening to guarantee the perfect fastening of the inserted panel.
- The chemical bond of the overmoulded pads makes them a single body with the clamp. The embossed surface avoid any possible sticking of the pad to the panel over the time.
- The tightening clamp allows a direct assembly of panels with thickness from 3.1 mm to 4 mm. The assembly of panels with higher thicknesses, up to a maximum of 8 mm, is possible by inserting the spacers into a specific cavity provided in the clamp.
- To prevent machine danger zones being reached through any opening in the machine protection structure made of panels fixed with the PC clamp, it is necessary to keep a safety distance (Fig. 4) according to ISO 13857, section 4.2.4 (the safety distance is the minimum distance required between a protection structure and a potentially dangerous component of the machine).

TECHNICAL DATA
If the clamp is opened, the tightening screw does not yield below an extraction force of 250 N, without coming out from its housing.
During the tests carried out in our laboratories under controlled temperature and humidity (23°C-50% R.H.), under given conditions of use and for a limited period of time, the maximum load of each clamp is of 100 N (Fig. 5).
The tightening screw of the panel and the assembly screws of the clamp on the profile have got the same hexagonal seat. Thus, it is possible to make the assembly by using only one hexagonal key (Key 4). Maximum tightening torque for the screw = 3.5 Nm.



Code	Description	⚖
49301	PC.35	31

ERGOSTYLE®

ASSEMBLY OF THE CLAMP ON THE PROFILE
- M6 shorted cylindrical head screw with DIN 7984 hexagon socket (Fig.1).
- DIN 933 M6 hexagonal head screw (Fig. 2).
- DIN 439B or DIN 934 M6 hexagonal nut (Fig. 3).

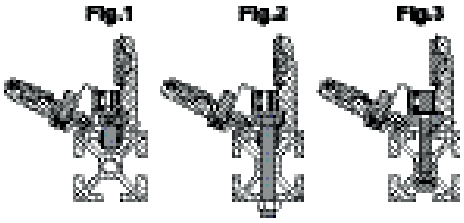
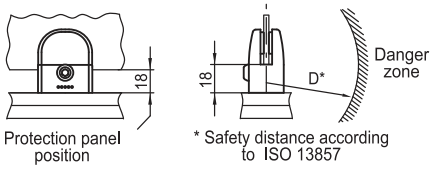
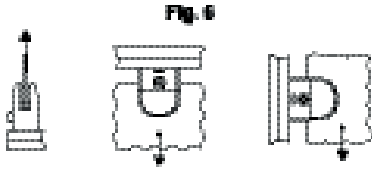
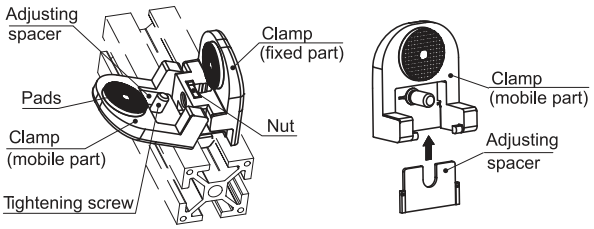
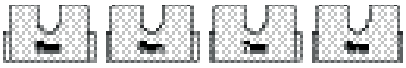


Fig. 4









s panel thickness [mm]	Adjusting spacer to be used
3.1 < s < 4.1	-
4.1 < s < 5.1	5mm
5.1 < s < 6.1	6mm
6.1 < s < 7.1	7mm
7.1 < s < 8.0	8mm

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Support clamp for panels and electro-welded mesh

mounting of the panel without drilling

ELESA Original design

MATERIAL
Glass-fibre reinforced polyamide (PA) SUPER-technopolymer, matte finish, RAL 9005 (C9) black colour or RAL 7040 (C33) grey colour.

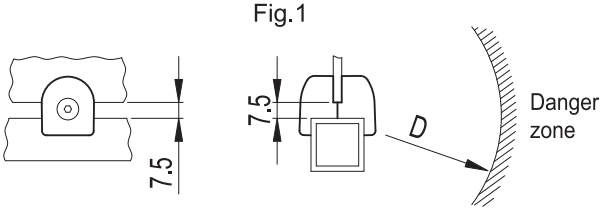
VIBRATION-DAMPING PADS
Made out of NBR rubber, hardness 90 Shore A, supplied assembled.

SCREW AND NUT
AISI 304 stainless steel countersunk head screw (UNI 5933) and M5 nut.

STANDARD EXECUTIONS
- **PPR**: for the mounting of panels, without vibration-damping elements.
- **PPR-A**: for the mounting of panels, with vibration-damping elements.
- **PPR-R**: for the mounting of electro-welded mesh type TEC® (max thread diameter 3 mm), without vibration-damping elements.

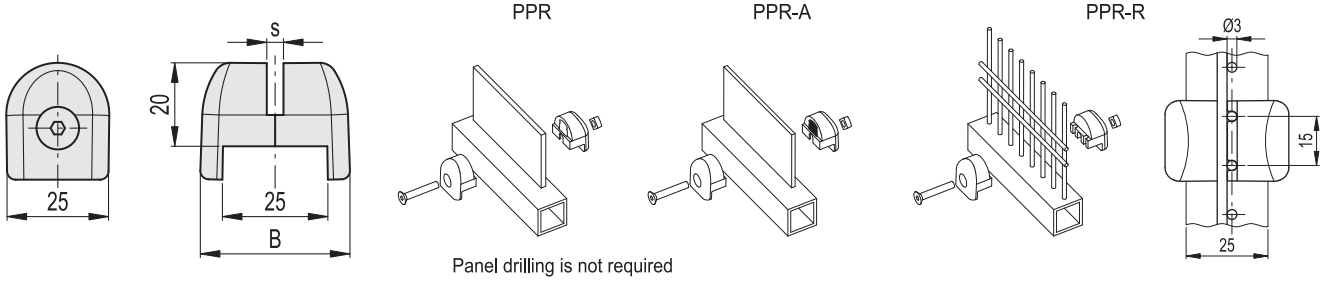
FEATURES AND APPLICATIONS
- Assembly on square-section profiles of 25 mm
- Panel drilling is not required for mounting.
- Rubber vibration-damping elements to ensure perfect locking of the panel even if not perfectly in tolerance or in the presence of strong vibrations.
- The distance of 7.5mm of the panel with respect to the profile avoids areas of dirt accumulation.
- Safety in compliance with ISO 13857, paragraph 4.2.4.
- The safety distance (D) is the minimum required distance between the protection structure and the potentially dangerous element of the machine (Fig.1).

Fig.1



Safety in compliance with ISO 13857

ASSEMBLY OF THE CLAMP ON THE PROFILE
- Tighten the clamp against the profile and the panel or the electro-welded mesh using the screw and the nut included in the package.



Panel drilling is not required

C9 RAL9005 C33 RAL7040

STAINLESS STEEL

Code	Description	Code	Description	B	s* Panel thickness	s1** Panel thickness	C# [Nm]	⚖
49354-C9	PPR-4-C9	49354-C33	PPR-4-C33	36	4	3/16	2.5	23
49355-C9	PPR-5-C9	49355-C33	PPR-5-C33	37	5	-	2.5	24
49356-C9	PPR-6-C9	49356-C33	PPR-6-C33	38	6	1/4	2.5	25
49363-C9	PPR-A-3-C9	49363-C33	PPR-A-3-C33	36	2.5÷3.4	2.9÷3.9	2.5	23
49364-C9	PPR-A-4-C9	49364-C33	PPR-A-4-C33	37	3.5÷4.4	4.0÷4.6	2.5	24
49365-C9	PPR-A-5-C9	49365-C33	PPR-A-5-C33	38	4.5÷5.4	4.7÷5.9	2.5	25
49375-C9	PPR-R-5-C9	49375-C33	PPR-R-5-C33	37	5	-	2.5	25
49376-C9	PPR-R-6-C9	49376-C33	PPR-R-6-C33	38	6	-	2.5	26

Maximum tightening torque for the screw. **s*** For square profiles of 25 mm **s1**** For square profiles of 1"

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Connecting clamps

MSX see page 1906
MSR see page 1908
GN 475 see page 1882
GN 479 see page 1895
GN 480.1 see page 1904

Guide rail brackets

SPR.V see page 1351
SPR. see page 1352
SPF. see page 1353

Bearing heads

TTA. see page 1355
TTB. see page 1355

Guide rail clamps

MPG see page 1348
MPG-2 see page 1349
MPG-S see page 1350

Side mounting top brackets

TSLA. see page 1354
TSLB. see page 1354

Self-aligning brackets

UCF see page 1356
UCFB see page1357
UCFL see page 1358
UCP see page 1359

Connection joints

GC. see page 1347

Levelling elements

LS.A see page 1174
LV.A see page 1192
LV.F see page 1206
GN 21 see page 1250
GN 31 see page 1234
GN 40 see page 1274

Support bases

BAG2-120 see page 1343
BAG2-180 see page 1344
BAS2 see page 1345
BAS3 see page 1346

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BAG2-120

Bipod supports

Technopolymer

MATERIAL

Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

STANDARD EXECUTIONS

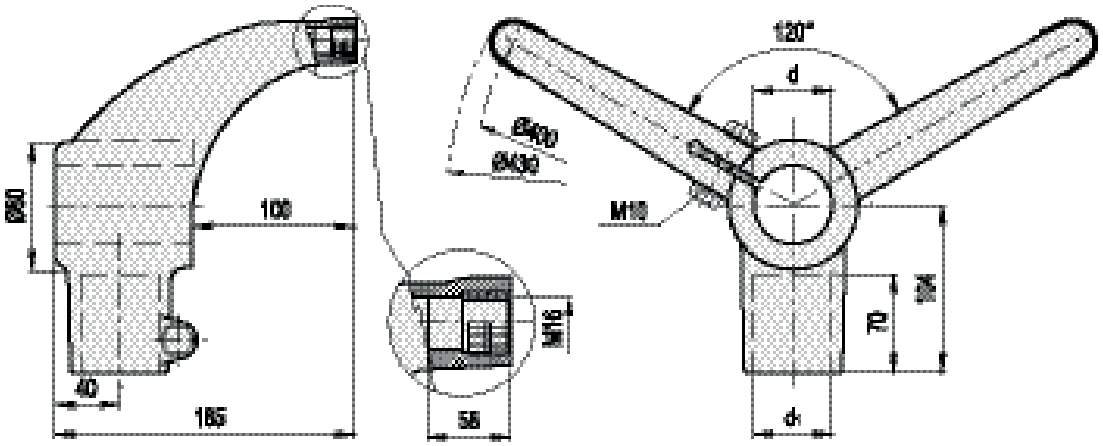
- **BAG2-120-A**: zinc-plated steel M10 screws, nuts and washers.
- **BAG2-120-SST**: AISI 304 stainless steel M10 screws, nuts and washers.

ASSEMBLY ON LEVELLING ELEMENTS

The bipod support bases are supplied with brass bosses, threaded pass-through hole for the assembly of the stem of the levelling element series LS.A, LV.A, LV.F.

FEATURES AND APPLICATIONS

The absence of cavities and the slightly round shapes offer modern and elegant aesthetics and guarantee the easy cleaning.



BAG2-120-A

Code	Description	d Tube	d Tube (BSP/GAS)	d1	d1 Tube (BSP/GAS)	⚖
419620	BAG2-120-42-42-A	42.4	1"1/4	42.4	1"1/4	740
419618	BAG2-120-48-42-A	48.3	1"1/2	42.4	1"1/4	730
419616	BAG2-120-48-48-A	48.3	1"1/2	48.3	1"1/2	720
419614	BAG2-120-60-42-A	60.3	2"	42.4	1"1/4	710
419612	BAG2-120-60-48-A	60.3	2"	48.3	1"1/2	700

BAG2-120-SST **STAINLESS STEEL**

Code	Description
419621	BAG2-120-42-42-SST
419619	BAG2-120-48-42-SST
419617	BAG2-120-48-48-SST
419615	BAG2-120-60-42-SST
419613	BAG2-120-60-48-SST

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BAG2-180

Bipod supports

Technopolymer

MATERIAL

Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

STANDARD EXECUTIONS

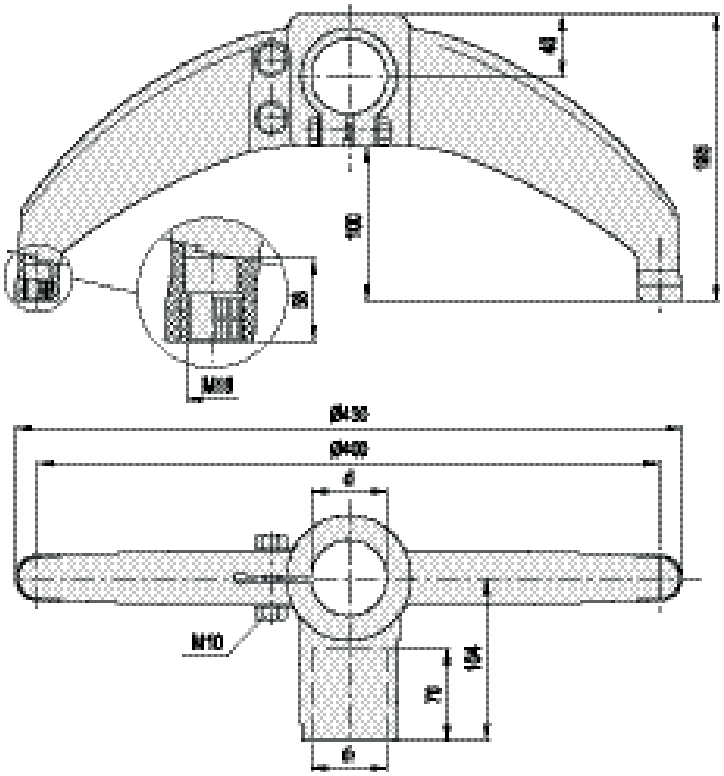
- **BAG2-180-A**: zinc-plated steel M10 screws, nuts and washers.
- **BAG2-180-SST**: AISI 304 stainless steel M10 screws, nuts and washers.

ASSEMBLY ON LEVELLING ELEMENTS

The bipod support bases are supplied with brass bosses, threaded pass-through hole for the assembly of the stem of the levelling element series LS.A, LV.A, LV.F.

FEATURES AND APPLICATIONS

The absence of cavities and the slightly round shapes offer modern and elegant aesthetics and guarantee the easy cleaning.



BAG2-180-A

Code	Description	d Tube	d Tube (BSP/GAS)	d1	d1 Tube (BSP/GAS)	⚖
419630	BAG2-180-42-42-A	42.4	1"1/4	42.4	1"1/4	720
419628	BAG2-180-48-42-A	48.3	1"1/2	42.4	1"1/4	710
419626	BAG2-180-48-48-A	48.3	1"1/2	48.3	1"1/2	700
419624	BAG2-180-60-42-A	60.3	2"	42.4	1"1/4	690
419622	BAG2-180-60-48-A	60.3	2"	48.3	1"1/2	680

BAG2-180-SST **STAINLESS STEEL**

Code	Description
419631	BAG2-180-42-42-SST
419629	BAG2-180-48-42-SST
419627	BAG2-180-48-48-SST
419625	BAG2-180-60-42-SST
419623	BAG2-180-60-48-SST

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BAS2

Bipod supports

Technopolymer

MATERIAL

Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

STANDARD EXECUTIONS

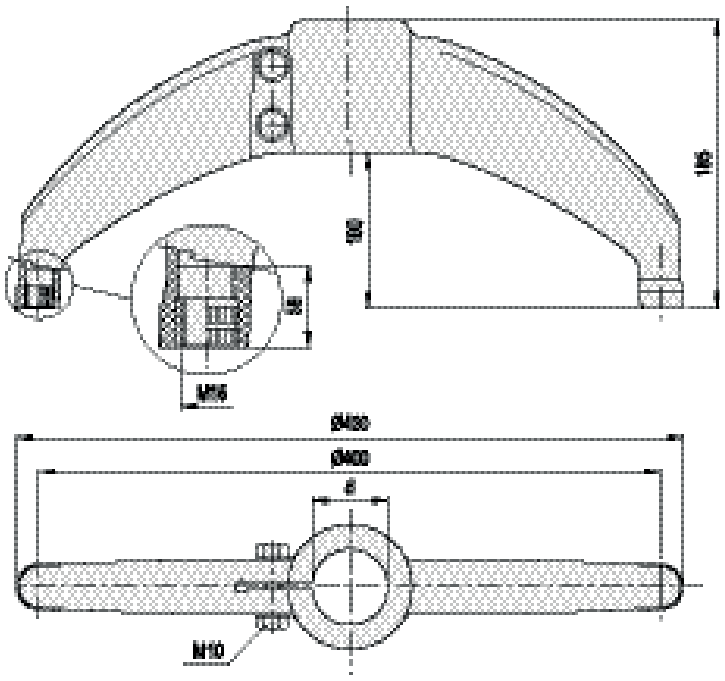
- **BAS2-A**: zinc-plated steel M10 screws, nuts and washers.
- **BAS2-SST**: AISI 304 stainless steel M10 screws, nuts and washers.

ASSEMBLY ON LEVELLING ELEMENTS

The bipod support bases are supplied with brass bosses, threaded pass-through hole for the assembly of the stem of the levelling element series LS.A, LV.A, LV.F.

FEATURES AND APPLICATIONS

The absence of cavities and the slightly round shapes offer modern and elegant aesthetics and guarantee the easy cleaning.



BAS2-A

Code	Description	d Tube	d Tube (BSP/GAS)	⚖
419636	BAS2-42-A	42.4	1"1/4	680
419634	BAS2-48-A	48.3	1"1/2	670
419632	BAS2-60-A	60.3	2"	650

BAS2-SST **STAINLESS STEEL**

Code	Description
419637	BAS2-42-SST
419635	BAS2-48-SST
419633	BAS2-60-SST

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INOX STAINLESS STEEL · RoHS · PA · +100° -30°

Tripod supports

Technopolymer

MATERIAL

Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

STANDARD EXECUTIONS

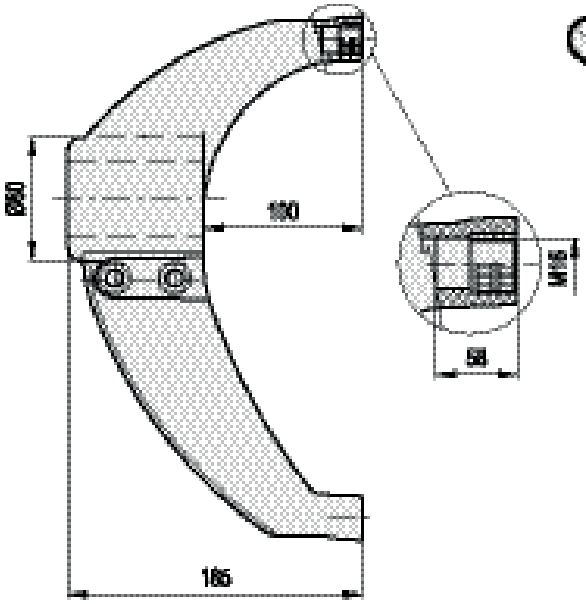
- **BAS3-A**: zinc-plated steel M10 screws, nuts and washers.
- **BAS3-SST**: AISI 304 stainless steel M10 screws, nuts and washers

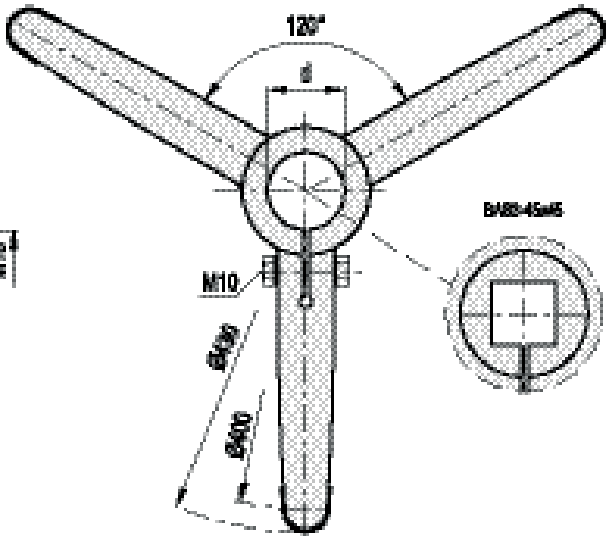
ASSEMBLY ON LEVELLING ELEMENTS

The three bearings of the base are supplied with brass bosses, threaded pass-through hole for the assembly of the stem of the levelling element series LS.A, LV.A, LV.F.

FEATURES AND APPLICATIONS

The absence of cavities and the slightly round shapes offer modern and elegant aesthetics and guarantee the easy cleaning.





BAS3-A

Code	Description	d Tube	d Tube (BSP/GAS)	d Tube (inch)	⚖
419592	BAS3-42-A	42.4	1"1/4	-	800
419590	BAS3-48-A	48.3	1"1/2	-	790
419594	BAS3-50-A	50.8	-	2"	780
419588	BAS3-60-A	60.3	2"	-	770
419752	BAS3-45x45-A	45	-	-	795

BAS3-SST **STAINLESS STEEL**

Code	Description
419593	BAS3-42-SST
419591	BAS3-48-SST
419595	BAS3-50-SST
419589	BAS3-60-SST
419753	BAS3-45x45-SST

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Connection joints

Technopolymer

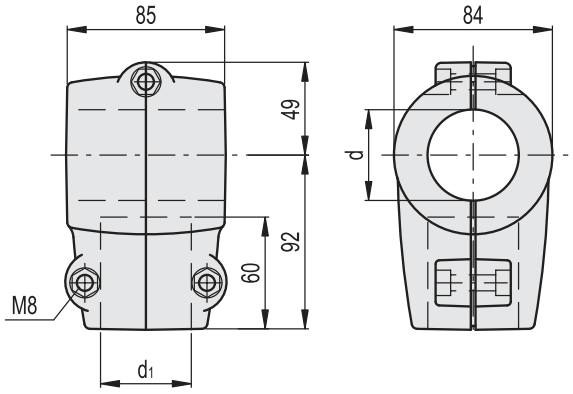
MATERIAL

Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

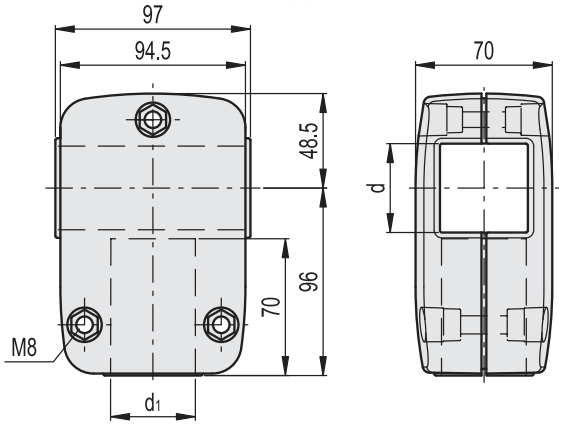
STANDARD EXECUTIONS

- **GC-A**: zinc-plated steel M8 cylindrical-head screws with hexagon socket and nuts.
- **GC-SST**: AISI 304 stainless steel M8 cylindrical-head screws with hexagon socket and nuts.

GC.



GC.45x45



GC.

Code	Description	d Tube	d Tube (BSP/GAS)	d1	d1 Tube (BSP/GAS)	⚖
419646	GC.42-42-A	42.4	1"1/4	42.4	1"1/4	410
419644	GC.48-42-A	48.3	1"1/2	42.4	1"1/4	400
419642	GC.48-48-A	48.3	1"1/2	48.3	1"1/2	390
419640	GC.60-42-A	60.3	2"	42.4	1"1/4	380
419638	GC.60-48-A	60.3	2"	48.3	1"1/2	370
419661	GC.45x45-A	45x45	-	45x45	-	387

GC-SST STAINLESS STEEL

Code	Description	d Tube	d Tube (BSP/GAS)	d1	d1 Tube (BSP/GAS)	⚖
419647	GC.42-42-SST	42.4	1"1/4	42.4	1"1/4	410
419645	GC.48-42-SST	48.3	1"1/2	42.4	1"1/4	400
419643	GC.48-48-SST	48.3	1"1/2	48.3	1"1/2	390
419641	GC.60-42-SST	60.3	2"	42.4	1"1/4	380
419639	GC.60-48-SST	60.3	2"	48.3	1"1/2	370
419662	GC.45x45-SST	45x45	-	45x45	-	387

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Guide rail clamps

Technopolymer

MATERIAL

Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

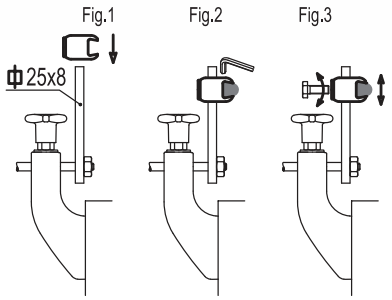
STANDARD EXECUTIONS

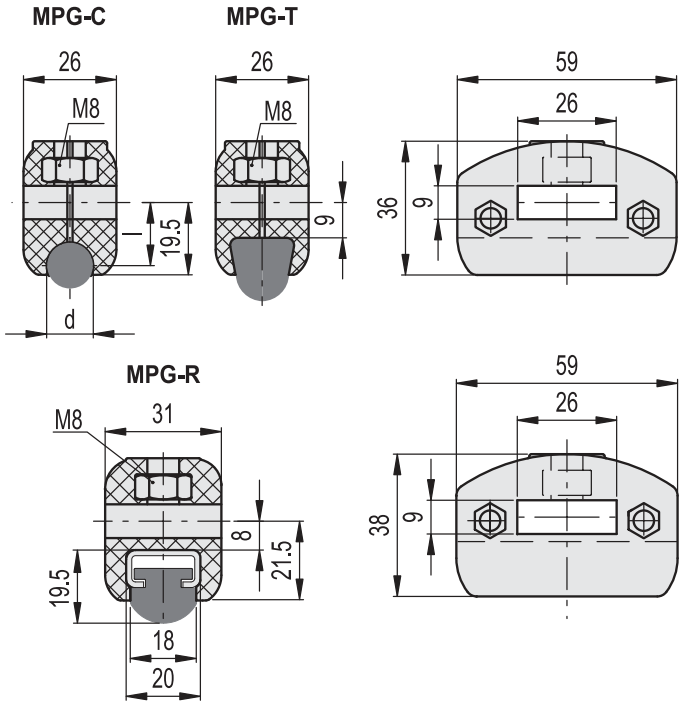
AISI 304 stainless steel cylindrical head screws with hexagon socket, nickel-plated brass nuts.

- **MPG-C**: for round guide.
- **MPG-T**: for both the standard trapezoidal guides.
- **MPG-R**: for rectangular guide.

ASSEMBLY INSTRUCTIONS

- Mount the guide rail clamp on the support bar (dimension 25x8 mm), the assembly consists in inserting the bar into the specific clamp slot (Fig.1).
- Insert the guide into the clamp housing and then clamp the screws (Fig.2).
- Set the height of the clamp and clamp by means of a M8 screw, not supplied (Fig.3).





STAINLESS STEEL

Code	Description	d	l	⚖
419749	MPG-C-8	8	16	44
419788	MPG-C-10	10	15	45
419687	MPG-C-12	12	15	46
419787	MPG-C-14	14	15	47
419688	MPG-T	-	-	46
419698	MPG-R	-	-	50

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MPG-2

Guide rail clamps

Technopolymer and stainless steel

MATERIAL

Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

STANDARD EXECUTIONS

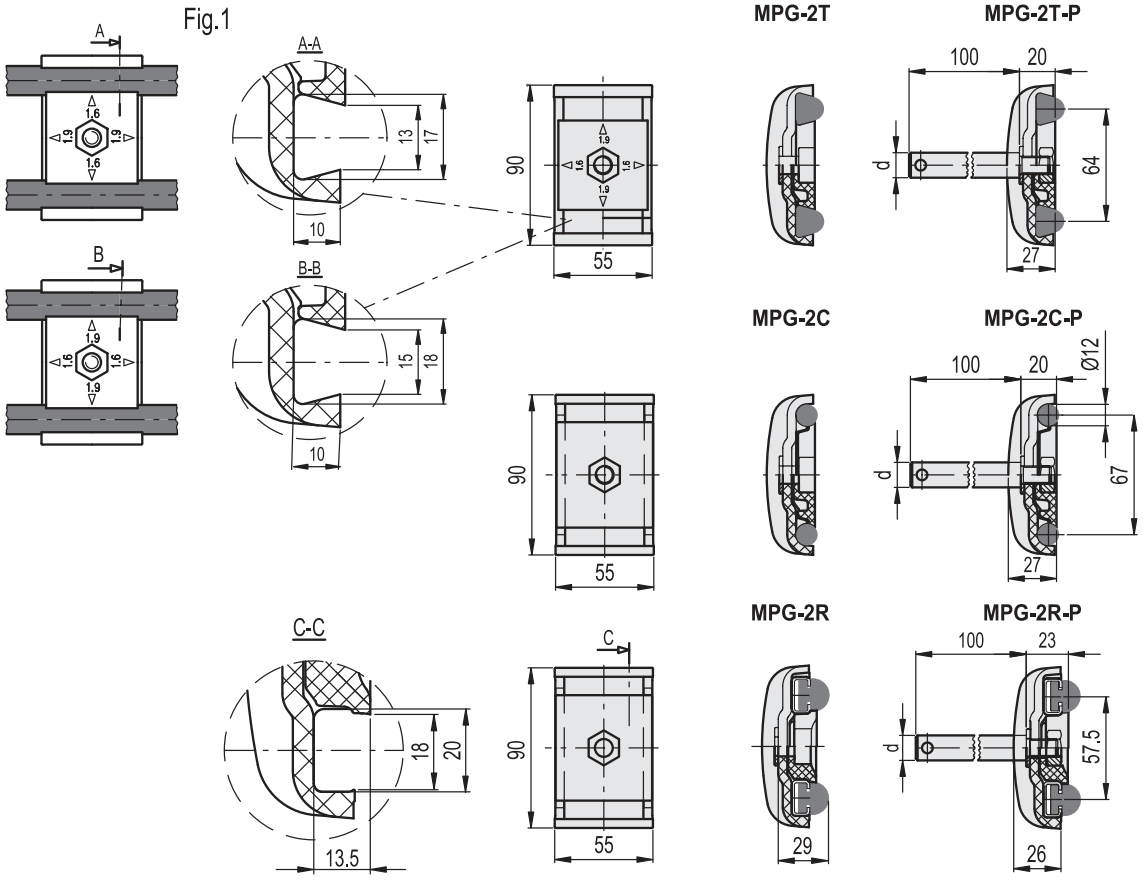
AISI 304 stainless steel washers.

- **MPG-2C**: housings for round guides, without pin.
- **MPG-2C-P**: housings for round guides, with AISI 304 stainless steel pin and clamping nut.
- **MPG-2T**: housings for standard trapezoidal guides, without pin.
- **MPG-2T-P**: housings for standard trapezoidal guides, with AISI 304 stainless steel pin and clamping nut.
- **MPG-2R**: housings for rectangular guides, without pin.
- **MPG-2R-P**: housings for rectangular guides, with AISI 304 stainless steel pin and clamping nut.

ASSEMBLY INSTRUCTIONS

- Insert the guides into their housings in the rear part of the clamp.
- Couple the front part of the clamp to the rear part. Only for the trapezoidal guide the rear part must be coupled according to the trapezoidal guide dimensions (Fig.1).
- Insert the nut into the housing in the front part of the clamp.
- Screw the nut to clamp.

Fig.1



MPG-2C
MPG-2C-P — **STAINLESS STEEL**

Code	Description	d	⚖
419609	MPG-2C	-	68
419681	MPG-2C-P12	12	205
419682	MPG-2C-P14	14	204
419683	MPG-2C-P16	16	203

MPG-2T
MPG-2T-P — **STAINLESS STEEL**

Code	Description	d	⚖
419611	MPG-2T	-	67
419684	MPG-2T-P12	12	204
419685	MPG-2T-P14	14	203
419686	MPG-2T-P16	16	202

MPG-2R
MPG-2R-P — **STAINLESS STEEL**

Code	Description	d	⚖
419610	MPG-2R	-	72
419694	MPG-2R-P12	12	212
419695	MPG-2R-P14	14	210
419696	MPG-2R-P16	16	208

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Guide rail clamps

Technopolymer and stainless steel

MATERIAL

Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

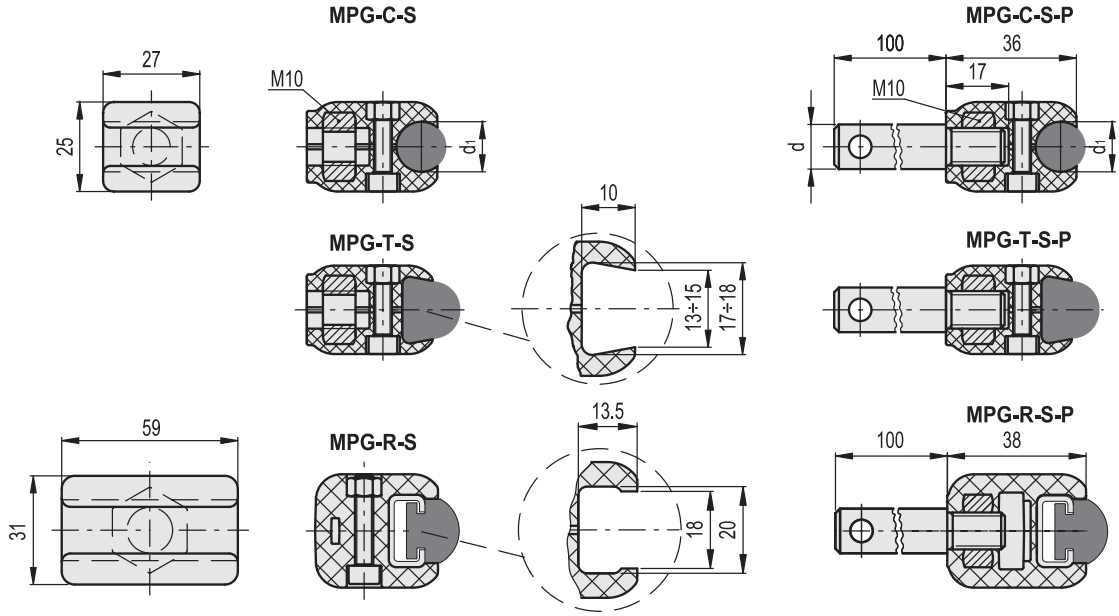
STANDARD EXECUTIONS

AISI 304 stainless steel screws and nuts.

- **MPG-C-S**: housings for round guides, without pin.
- **MPG-C-S-P**: housings for round guides with AISI 304 stainless steel pin.
- **MPG-T-S**: housings for standard trapezoidal guides, without pin.
- **MPG-T-S-P**: housings for standard trapezoidal guides with AISI 304 stainless steel pin.
- **MPG-R-S**: housings for rectangular guides, without pin.
- **MPG-R-S-P**: housings for rectangular guides with AISI 304 stainless steel pin.

ASSEMBLY INSTRUCTIONS

- Insert the guide into the housing of the clamp.
- Fasten the clamp by means of the screw.
- For version P screw the pin.



MPG-C-S
MPG-T-S
MPG-R-S

STAINLESS STEEL

Code	Description	d1	⚖
419810	MPG-C-S-8	8	37
419811	MPG-C-S-10	10	36
419812	MPG-C-S-12	12	35
419813	MPG-C-S-14	14	34
419817	MPG-T-S	-	34
419827	MPG-R-S	-	47

MPG-C-S-P
MPG-T-S-P
MPG-R-S-P

STAINLESS STEEL

Code	Description	d	d1	⚖
419798	MPG-C-S-P12-8	12	8	128
419799	MPG-C-S-P12-10	12	10	127
419800	MPG-C-S-P12-12	12	12	126
419801	MPG-C-S-P12-14	12	14	125
419802	MPG-C-S-P14-8	14	8	162
419803	MPG-C-S-P14-10	14	10	161
419804	MPG-C-S-P14-12	14	12	160
419805	MPG-C-S-P14-14	14	14	159
419806	MPG-C-S-P16-8	16	8	198
419807	MPG-C-S-P16-10	16	10	197
419808	MPG-C-S-P16-12	16	12	196
419809	MPG-C-S-P16-14	16	14	195
419814	MPG-T-S-P12	12	-	125
419815	MPG-T-S-P14	14	-	158
419816	MPG-T-S-P16	16	-	195
419824	MPG-R-S-P12	12	-	201
419825	MPG-R-S-P14	14	-	235
419826	MPG-R-S-P16	16	-	262

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SPR.V

Guide rail brackets

for linear and angular positioning, technopolymer

BRACKET
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

GUIDE RAIL CYLINDER
Glass-fibre reinforced technopolymer. Black colour, matte finish.

STANDARD EXECUTIONS
Nickel-plated AISI 431 stainless steel eye screw.
Glass-fibre reinforced technopolymer clamping knob, black colour, matte finish, with nickel-plated brass hexagonal end for clamping by means of a key, threaded hole.
AISI 304 stainless steel screw, nut and washer for the fixing of guide rail cylinder to the bracket.
- **SPR.V-A**: with lower lip.
- **SPR.V-B**: without lower lip.

FEATURES AND APPLICATIONS
Particularly suitable when the angular and linear positioning needs to be executed in two different moments, for example when the distance between the guides has to be set more frequently than the angulation.

ACCESSORIES ON REQUEST
Spacer for guide rail bracket DSG-A (code 419676) or DSG-B (code 419677) in glass-fibre reinforced technopolymer, black colour, matte finish.

SPECIAL EXECUTIONS ON REQUEST
AISI 304 stainless steel guide rail cylinder.

ASSEMBLY INSTRUCTIONS
- Fit the guide rail bracket (Fig. 1).
- Assemble the guide rail cylinder to the support, with screw, nut and washer (Fig. 2).
- Insert the washer on the eye screw and assemble the knob (Fig. 3).
- Insert the eye in the guide rail cylinder housing (Fig. 4).
- Insert the guide pin in the guide rail cylinder hole. Set its linear and angular position and then clamp the knob (linear positioning) and the fixing nut of guide rail cylinder (angular positioning) (Fig. 5).

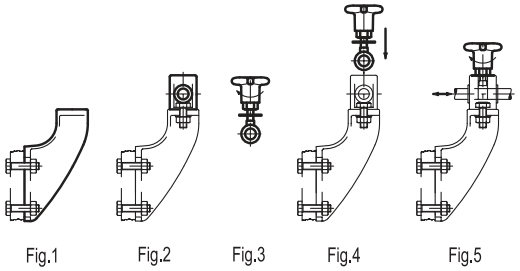
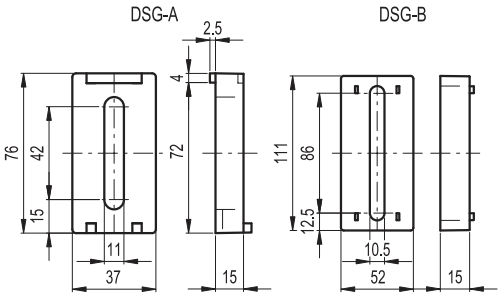
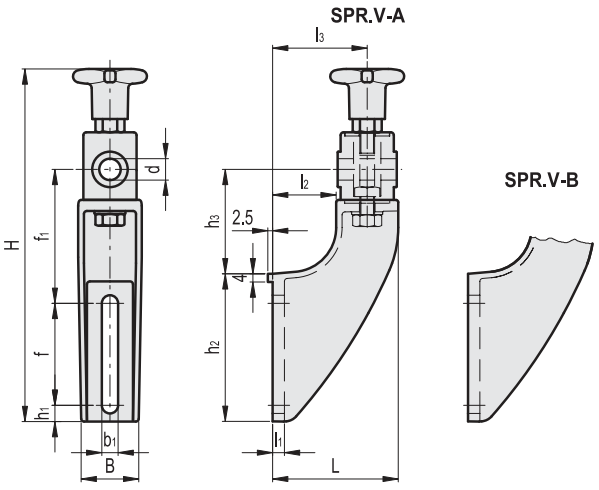


Fig.1 Fig.2 Fig.3 Fig.4 Fig.5





SPR.V-A — **STAINLESS STEEL**

Code	Description	H	L	B	f	f1	b1	h1	h2	h3	l1	l2	l3	Guide assembly hole d	⚖
419755	SPR.V-12-A	203	70	37	42	79	11	15	76	60	8	30	50	12	255
419756	SPR.V-14-A	203	70	37	42	79	11	15	76	60	8	30	50	14	250
419757	SPR.V-16-A	203	70	37	42	79	11	15	76	60	8	30	50	16	245

SPR.V-B — **STAINLESS STEEL**

Code	Description	H	L	B	f	f1	b1	h1	h2	h3	l1	l2	l3	Guide assembly hole d	⚖
419658	SPR.V-12-B	238	85	41	69	90	11	11	100	70	8	43	64	12	270
419659	SPR.V-14-B	238	85	41	69	90	11	11	100	70	8	43	64	14	265
419660	SPR.V-16-B	238	85	41	69	90	11	11	100	70	8	43	64	16	260

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Guide rail brackets

for linear and angular positioning, technopolymer

BRACKET
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

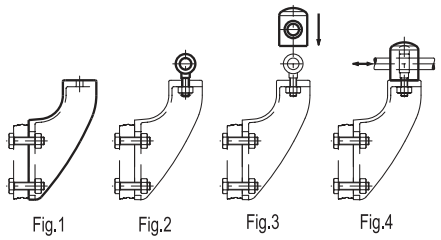
GUIDE RAIL CYLINDER
Glass-fibre reinforced technopolymer. Black colour, matte finish.

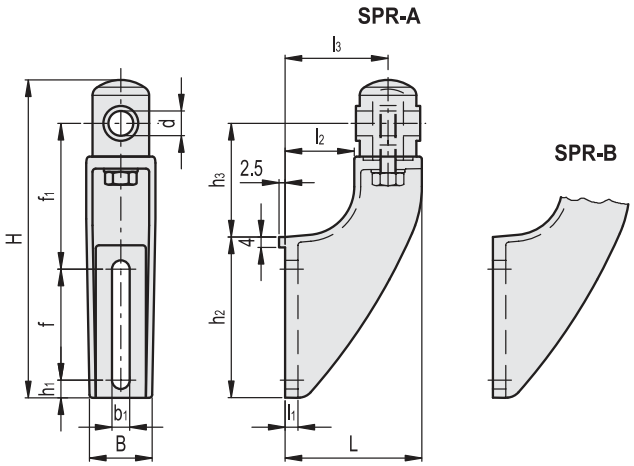
STANDARD EXECUTION
Nickel-plated AISI 431 stainless steel eye screw, AISI 304 stainless steel nut and washer.
- **SPR-A**: with lower lip.
- **SPR-B**: without lower lip.

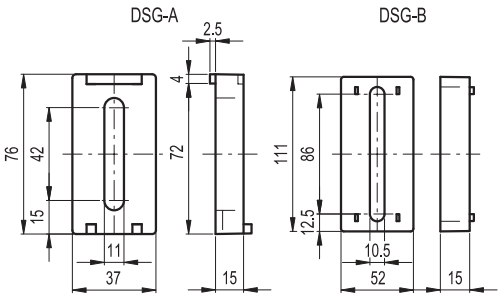
FEATURES AND APPLICATIONS
Particularly suitable when linear and angular positioning of the guide rail is required.

ACCESSORIES ON REQUEST
Spacer for guide rail bracket DSG-A (code 419676) or DSG-B (code 419677) in glass-fibre reinforced technopolymer, black colour, matte finish.

ASSEMBLY INSTRUCTIONS
- Fit the guide rail bracket (Fig. 1).
- Insert the eye screw in the guide rail support hole and screw the relevant nut and washer (Fig. 2).
- Assemble the guide rail cylinder on the eye (Fig. 3).
- Insert the guide pin in the guide rail cylinder hole. Set its linear and angular position and then fasten the nut (Fig. 4).







SPR-A — **STAINLESS STEEL**

Code	Description	H	L	B	f	f1	b1	h1	h2	h3	l1	l2	l3	Guide assembly hole d	⚖
419760	SPR.12-A	158	70	37	42	79	11	15	76	60	8	30	50	12	176
419761	SPR.14-A	158	70	37	42	79	11	15	76	60	8	30	50	14	175
419762	SPR.16-A	158	70	37	42	79	11	15	76	60	8	30	50	16	174

SPR-B — **STAINLESS STEEL**

Code	Description	H	L	B	f	f1	b1	h1	h2	h3	l1	l2	l3	Guide assembly hole d	⚖
419664	SPR.12-B	193	85	41	69	90	11	11	100	70	8	43	64	12	196
419665	SPR.14-B	193	85	41	69	90	11	11	100	70	8	43	64	14	195
419666	SPR.16-B	193	85	41	69	90	11	11	100	70	8	43	64	16	194

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Guide rail brackets

for linear positioning, technopolymer

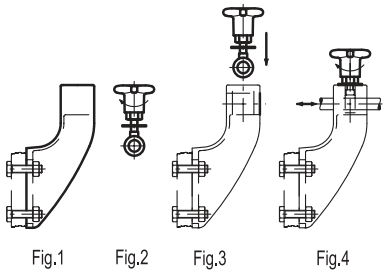
BRACKET
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

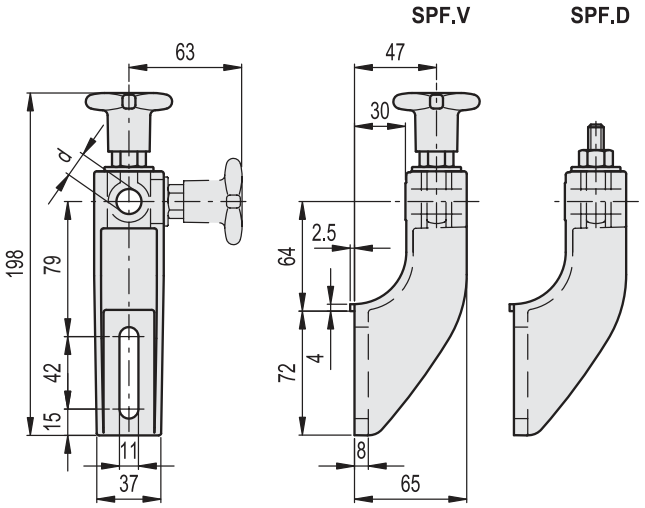
STANDARD EXECUTIONS
Nickel-plated AISI 431 stainless steel eye screw and AISI 304 stainless steel washer.
- **SPF.V**: with glass-fibre reinforced technopolymer clamping knob, black colour, matte finish, nickel-plated brass hexagonal end for clamping by means of a key, threaded hole.
- **SPF.D**: without knob, with AISI 304 stainless steel clamping nut.

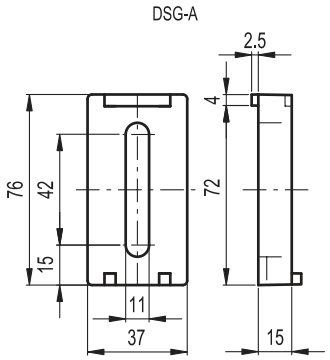
FEATURES AND APPLICATIONS
Particularly suitable when a linear positioning of the guide rail is required.
The vertical or horizontal positioning of the eye screw improves the assembly where necessary.

ACCESSORIES ON REQUEST
Spacer for guide rail bracket DSG-A (code 419676), in glass-fibre reinforced technopolymer, black colour, matte finish.

ASSEMBLY INSTRUCTIONS
- Fit the guide rail bracket (Fig. 1).
- Insert the washer into the eye screw and screw either the knob or the nut (Fig. 2).
- Insert the eye in its housing either in the horizontal or vertical position (Fig. 3).
- Insert the guide pin in its clamping hole, set the linear positioning and then fasten (Fig. 4).







SPF.V — **STAINLESS STEEL**

Code	Description	Guide assembly hole d	⚖
419652	SPF.V-12	12	195
419654	SPF.V-14	14	190
419656	SPF.V-16	16	185

SPF.D — **STAINLESS STEEL**

Code	Description	Guide assembly hole d	⚖
419653	SPF.D-12	12	175
419655	SPF.D-14	14	170
419657	SPF.D-16	16	165

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TSLA.

TSLB.

Side mounting top brackets

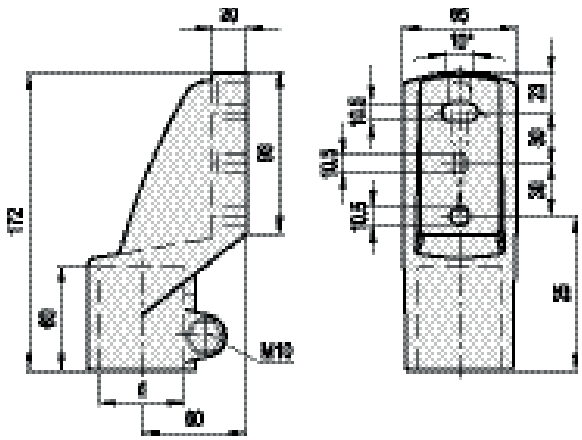
Technopolymer

MATERIAL

Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

STANDARD EXECUTIONS

- **TSLA-A**: zinc-plated steel M10 screw, nut and washer.
- **TSLA-SST**: AISI 304 stainless steel M10 screw, nut and washer.



TSLA-A

Code	Description	d Tube	d Tube (BSP/GAS)	⚖
419648	TSLA-48-A	48.3	1"1/2	320

TSLA-SST — STAINLESS STEEL

Code	Description	d Tube	d Tube (BSP/GAS)	⚖
419649	TSLA-48-SST	48.3	1"1/2	320

Side mounting top brackets

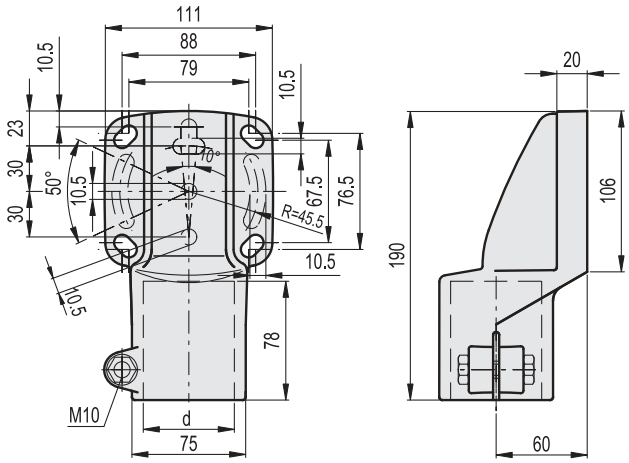
Technopolymer

MATERIAL

Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

STANDARD EXECUTIONS

- **TSLB-A**: zinc-plated steel M10 screw, nut and washer.
- **TSLB-SST**: AISI 304 stainless steel M10 screw, nut and washer.



TSLB-A

Code	Description	d Tube	d Tube (BSP/GAS)	⚖
419794	TSLB-42-A	42.4	1"1/4	435
419792	TSLB-48-A	48.3	1"1/2	430
419790	TSLB-60-A	60.3	2"	425
419796	TSLB-45x45-A	45	-	430

TSLB-SST — STAINLESS STEEL

Code	Description	d Tube	d Tube (BSP/GAS)	⚖
419795	TSLB-42-SST	42.4	1"1/4	435
419793	TSLB-48-SST	48.3	1"1/2	430
419791	TSLB-60-SST	60.3	2"	425
419797	TSLB-45x45-SST	45	-	430

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TTA.

Support bases

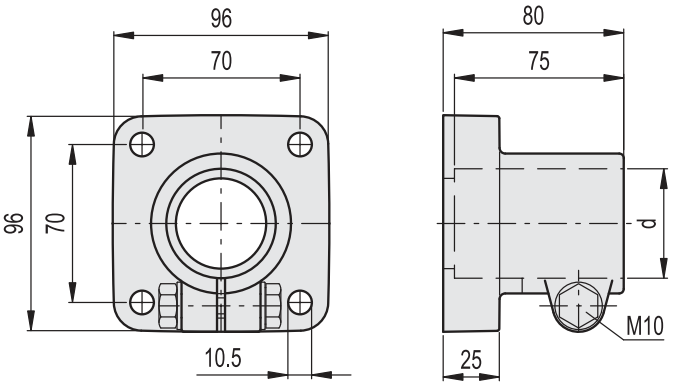
Technopolymer

MATERIAL

Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

STANDARD EXECUTIONS

- **TTA-A**: zinc-plated steel M10 screw, nut and washer.
- **TTA-SST**: AISI 304 stainless steel M10 screw, nut and washer.



TTA-A

Code	Description	d Tube	d Tube (BSP/GAS)	⚖
419650	TTA.48-A	48.3	1"1/2	260

TTA-SST STAINLESS STEEL

Code	Description	d Tube	d Tube (BSP/GAS)	⚖
419651	TTA.48-SST	48.3	1"1/2	260

TTB.

Support bases

Technopolymer

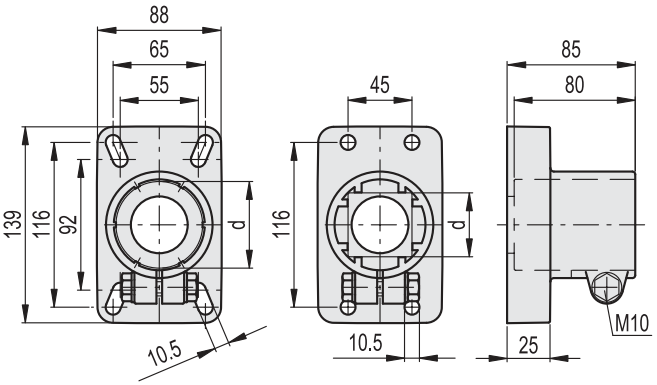
MATERIAL

Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

STANDARD EXECUTIONS

- **TTB-A**: zinc-plated steel M10 screw, nut and washer.
- **TTB-SST**: AISI 304 stainless steel M10 screw, nut and washer.

TTB. TTB.45x45



TTB-A

Code	Description	d Tube	d Tube (BSP/GAS)	d Tube (inch)	⚖
419768	TTB.42-A	42.4	1"1/4	-	345
419766	TTB.48-A	48.3	1"1/2	-	340
419772	TTB.50-A	50.8	-	2"	337
419764	TTB.60-A	60.3	2"	-	335
419770	TTB.45x45-A	45	-	-	340

TTB-SST STAINLESS STEEL

419769	TTB.42-SST	42.4	1"1/4	-	345
419767	TTB.48-SST	48.3	1"1/2	-	340
419773	TTB.50-SST	50.8	-	2"	337
419765	TTB.60-SST	60.3	2"	-	335
419771	TTB.45x45-SST	45	-	-	340

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RoHS PA PP +60° -20°

Self-aligning brackets

square flanged, technopolymer

BRACKET
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

BUSHINGS AND WASHERS
AISI 304 stainless steel.

BEARING
High quality with traceability codes. Chrome steel.

LUBRICATOR
Nickel-plated brass.

PACKING RINGS
NBR rubber.

COVER
Glass-fibre reinforced polypropylene based (PP) technopolymer, RAL 7015 grey colour, matte finish.
Closed cap for head bracket or for pass-through shafts.

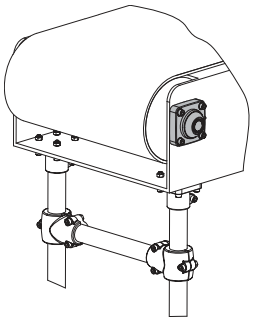
STANDARD EXECUTIONS
- **UCF-T**: head bracket with closed cover.
- **UCF-P**: bracket for pass-through shaft with drilled cover and NBR rubber packing ring for rotating shafts.

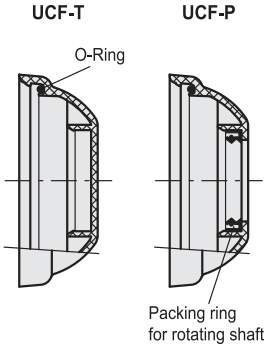
FEATURES AND APPLICATIONS
Overall dimensions are in compliance with ISO 3228.
A system of completely sealed packing rings assures the protection of the bearing from dirt ingress.
Max shaft misalignment = 2,5°.

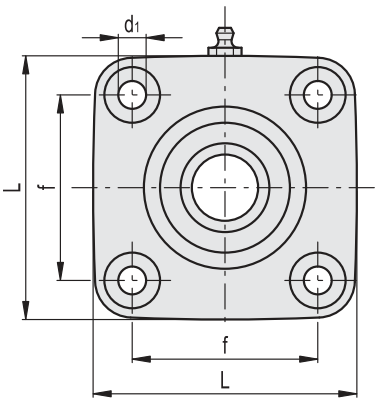
INSTRUCTIONS OF USE
Assembly with shafts without end stops. For optimum operation, we recommend periodic lubrication with a common grease resistant to high temperatures and oxidation.

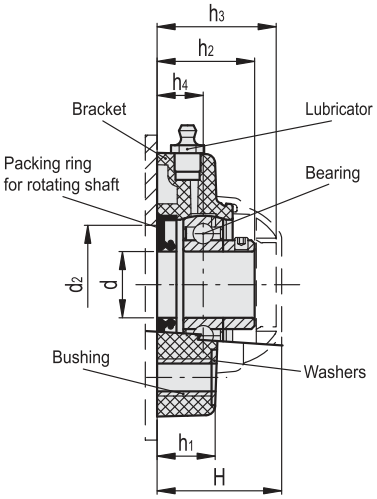
SPECIAL EXECUTIONS ON REQUEST
- AISI 440C stainless steel bearing.
- Bearing in inch sizes.
- Brackets for shafts with diameters in different sizes.
- Brackets in polypropylene based (PP) technopolymer, packing rings and oil seal type VITON®*.

*** Registered trademark by DuPont Dow Elastomers.**









Code	Description	d	d1	d2 min	d2 max	H	L	f	h1	h2	h3	h4	Bearing static load [N]	Bearing dynamic load [N]	Bracket load [N]	⚖
419551	UCF.205-A-25-T	25	10.5	45	50	49	99	70	22	36	47	17	7000	14000	17000	445
419561	UCF.206-A-30-T	30	10.5	50	60	56	113	83	26	41	54	20	11000	19000	17000	511
419531	UCF.205-A-25-P	25	10.5	45	50	49	99	70	22	36	-	17	7000	14000	17000	452
419541	UCF.206-A-30-P	30	10.5	50	60	56	113	83	26	41	-	20	11000	19000	17000	518

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UCFB

RoHS PA PP +60° -20°

Self-aligning brackets

side flanged, technopolymer

BRACKET
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

BUSHINGS AND WASHERS
AISI 304 stainless steel.

BEARING
High quality with traceability codes. Chrome steel.

LUBRICATOR
Nickel-plated brass.

PACKING RINGS
NBR rubber.

COVER
Glass-fibre reinforced polypropylene based (PP) technopolymer, RAL 7015 grey colour, matte finish.
Closed cap for head bracket or for pass-through shafts.

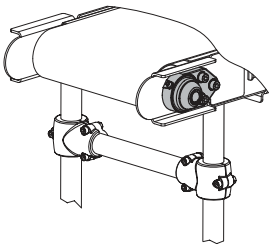
STANDARD EXECUTIONS
- **UCFB-T**: head bracket with closed cover.
- **UCFB-P**: bracket for pass-through shaft with drilled cover and NBR rubber packing ring for rotating shafts.

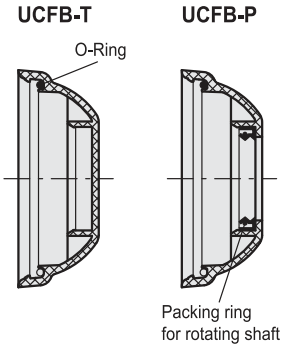
FEATURES AND APPLICATIONS
Overall dimensions are in compliance with ISO 3228.
A system of completely sealed packing rings assures the protection of the bearing from dirt ingress.
Max shaft misalignment = 2,5°.

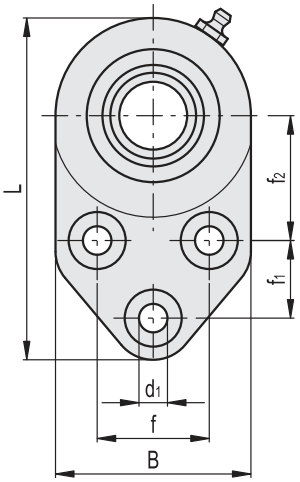
INSTRUCTIONS OF USE
Assembly with shafts without end stops. For optimum operation, we recommend periodic lubrication with a common grease resistant to high temperatures and oxidation.

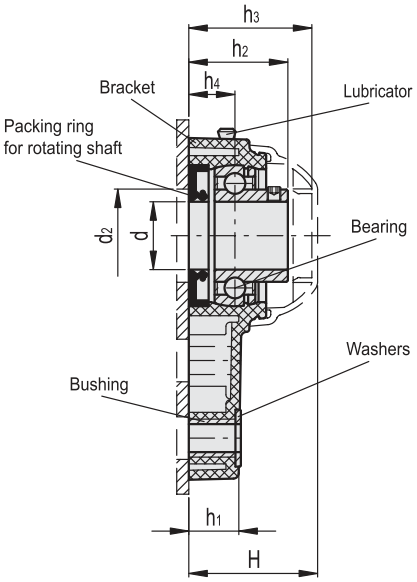
SPECIAL EXECUTIONS ON REQUEST
- AISI 440C stainless steel bearing.
- Bearing in inch sizes.
- Brackets for shafts with diameters in different sizes.
- Brackets in polypropylene based (PP) technopolymer, packing rings and oil seal type VITON®*.

*** Registered trademark by DuPont Dow Elastomers.**









Code	Description	d	d1	d2 min	d2 max	H	L	B	f	f1	f2	h1	h2	h3	h4	Bearing static load [N]	Bearing dynamic load [N]	Bracket load [N]	⚖
419554	UCFB.205-D-25-T	25	10.5	45	50	49.5	126	72	41.3	28.6	46	19	36.5	47	17	7000	14000	9000	353
419564	UCFB.206-D-30-T	30	10.5	50	60	55.7	142	85	47.6	32	52.4	26.3	41.7	53.2	20.7	11000	19000	11000	469
419534	UCFB.205-D-25-P	25	10.5	45	50	49.5	126	72	41.3	28.6	46	19	36.5	-	17	7000	14000	9000	359
419544	UCFB.206-D-30-P	30	10.5	50	60	55.7	142	85	47.6	32	52.4	26.3	41.7	-	20.7	11000	19000	11000	476

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RoHS PA PP +60° -20°

Self-aligning brackets

oval flanged, technopolymer

BRACKET
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

BUSHINGS AND WASHERS
AISI 304 stainless steel.

BEARING
High quality with traceability codes. Chrome steel.

LUBRICATOR
Nickel-plated brass.

PACKING RINGS
NBR rubber

COVER
Glass-fibre reinforced polypropylene based (PP) technopolymer, RAL 7015 grey colour, matte finish.
Closed cap for head bracket or for pass-through shafts.

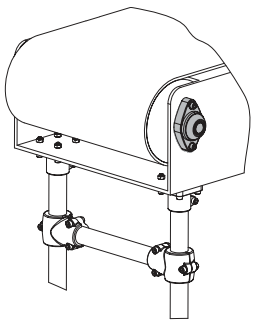
STANDARD EXECUTION
- **UCFL-T**: head bracket with closed cover.
- **UCFL-P**: bracket for pass-through shaft with drilled cover and NBR rubber packing ring for rotating shafts.

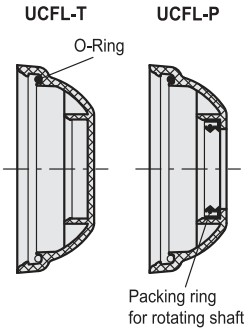
FEATURES AND APPLICATIONS
Overall dimensions are in compliance with ISO 3228.
A system of completely sealed packing rings assures the protection of the bearing from dirt ingress.
Max shaft misalignment = 2,5°.

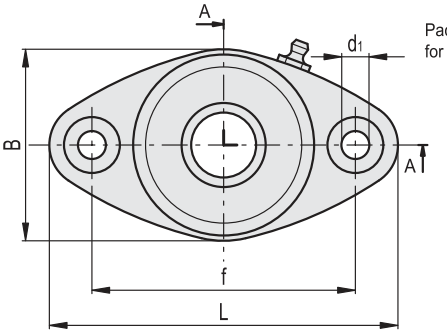
INSTRUCTIONS OF USE
Assembly with shafts without end stops. For optimum operation, we recommend periodic lubrication with a common grease resistant to high temperatures and oxidation.

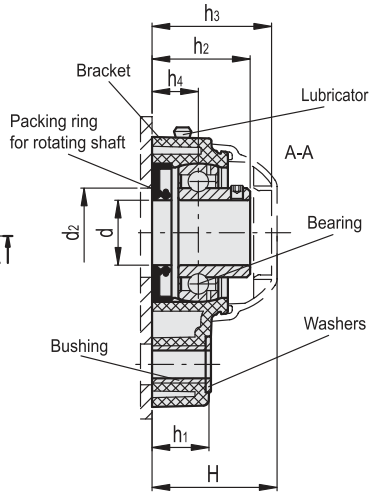
SPECIAL EXECUTIONS ON REQUEST
- AISI 440C stainless steel bearing.
- Bearing in inch sizes.
- Brackets for shafts with diameters in different sizes.
- Brackets in polypropylene based (PP) technopolymer, packing rings and oil seal type VITON®*.

*** Registered trademark by DuPont Dow Elastomers.**









Code	Description	d	d1	d2 min	d2 max	H	L	B	f	h1	h2	h3	h4	Bearing static load [N]	Bearing dynamic load [N]	Bracket load [N]	⚖
419552	UCFL.205-B-25-T	25	10.5	45	50	49	131	72	99	22	36	47	17	7000	14000	10000	294
419562	UCFL.206-B-30-T	30	10.5	50	60	56	149	86	117	26	41	54	20	11000	19000	13000	397
419532	UCFL.205-B-25-P	25	10.5	45	50	49	131	72	99	22	36	-	17	7000	14000	10000	300
419542	UCFL.206-B-30-P	30	10.5	50	60	56	149	86	117	26	41	-	20	11000	19000	13000	404

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Self-aligning brackets

for shafts at 90°, technopolymer

BRACKET
Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

BUSHINGS, WASHERS AND STOP RING
AISI 304 stainless steel.

BEARING
High quality with traceability codes. Chrome steel.

LUBRICATOR
Nickel-plated brass.

PACKING RINGS
NBR rubber.

COVER
Glass-fibre reinforced polypropylene based (PP) technopolymer, RAL 7015 grey colour, matte finish.
Closed cap for head bracket or for pass-through shafts.

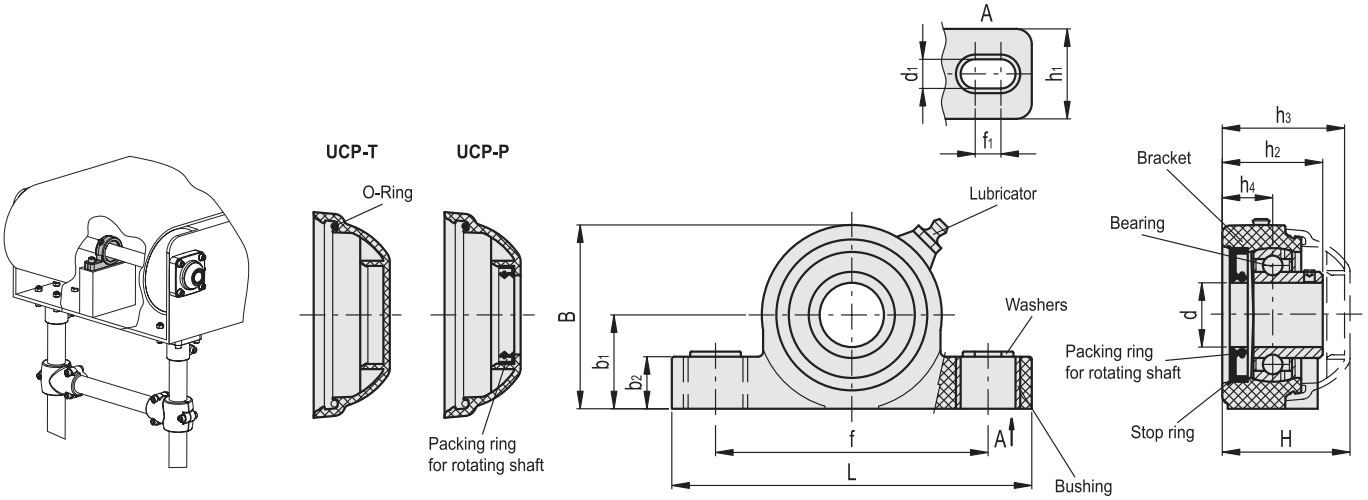
STANDARD EXECUTIONS
- **UCP-T**: head bracket with closed cover.
- **UCP-P**: bracket for pass-through shaft with drilled cover and NBR rubber packing ring for rotating shafts.

FEATURES AND APPLICATIONS
Overall dimensions are in compliance with ISO 3228.
A system of completely sealed packing rings assures the protection of the bearing from dirt ingress.
Max shaft misalignment = 2,5°.

INSTRUCTIONS OF USE
Assembly with shafts without end stops. For optimum operation, we recommend periodic lubrication with a common grease resistant to high temperatures and oxidation.

SPECIAL EXECUTIONS ON REQUEST
- AISI 440C stainless steel bearing.
- Bearing in inch sizes.
- Brackets for shafts with diameters in different sizes.
- Brackets in polypropylene based (PP) technopolymer, packing rings and oil seal type VITON®*.

*** Registered trademark by DuPont Dow Elastomers.**



Code	Description	d	d1	f1	H	L	B	f	b1	b2	h1	h2	h3	h4	Bearing static load [N]	Bearing dynamic load [N]	Bracket load [N]	⚖
419553	UCP.205-C-25-T	25	13	10	51.7	140	71.5	106	36.5	20	35	39	49	19.6	7000	14000	6000	333
419563	UCP.206-C-30-T	30	13	10	55.7	163	84.5	121	43	20	36	41.7	53	20.7	11000	19000	9000	456
419533	UCP.205-C-25-P	25	13	10	51.7	140	71.5	106	36.5	20	35	39	-	19.6	7000	14000	6000	339
419543	UCP.206-C-30-P	30	13	10	55.7	163	84.5	121	43	20	36	41.7	-	20.7	11000	19000	9000	463

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DESIGNED
FOR ENGINEERING

14 Toggle, power and hook clamps

Toggle clamps

Power clamps

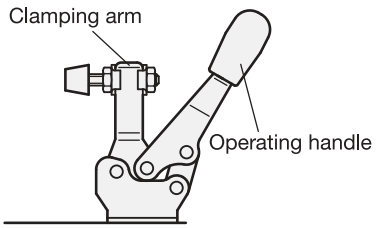
Hook clamps

Toggle clamps

Operating principle toggle link

By using the **toggle link principle** toggle clamps offer decisive advantages:

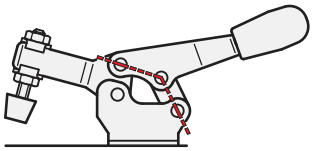
The clamping arm retracts to such an extent that the workpiece can be loaded and unloaded completely unobstructed.



Even the slightest forward movement of the operating handle brings the clamping arm with the contact pad over the workpiece.

As can be seen from the sketch, the position of the toggle links will lead to a multiple of the input force applied to the operating handle.

In this position the toggle clamp is not yet fully engaged and any counter force will open it.



In this position all three pivots are perfectly aligned yielding the maximum **clamping force F_S** (dead centre point).

The clamping force F_S exerted on the workpiece is mainly dependent on the following criteria:

- the input force which is applied to the operating handle,
- the position of the clamping bolt on the clamping lever.

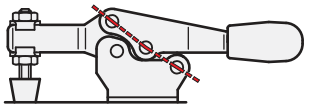
Since the applied force on the lever by the operator is not known, the clamping force F_S shown in the table is only specified for pneumatically operated clamps.

The clamping force F_S can be altered by re-adjusting the position of the clamping bolt. The clamping force increases if the entire contact area of the bolt arrives on the workpiece prior to the toggle linkage reaching dead centre point. This effect is illustrated clearly when using an elastic clamping pad.

In this position the toggle linkage has arrived in the over-centre lock position and the operating lever has reached a firm stop and is thus prevented from opening until it is released by the operator.

The force which the clamp is capable of withstanding in this over-centre lock position without suffering permanent deformation is known as holding force F_H. The holding force has a characteristic value (co-efficient) for toggle clamps and this value is mainly dependent on:

- the size (dimensions, geometry) of the toggle clamp,
- the position of the clamping bolt on the clamping arm



In the tables the **holding force F_H** of the toggle clamps is given in each case in relation to a particular position (distance r) of the clamping arm.

On the standard sheets all clamps are shown in their clamping position.
All references to force are given in N (Newton).

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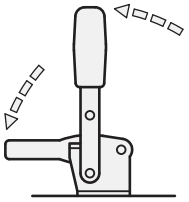
Toggle clamps
Types

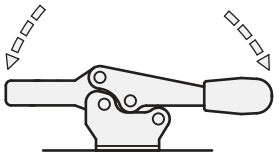
Vertical acting toggle clamps

Lever and clamping bar move in the same direction.
In the clamped position the operating handle is in vertical position.
For applications where substantial forces and many tightening cycles occur, „Longlife“ versions are available.



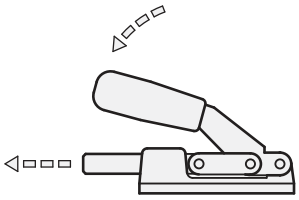
Horizontal acting toggle clamps

Lever and clamping bar move in opposite direction.
In the clamped position the operating handle is in horizontal position (flat version).



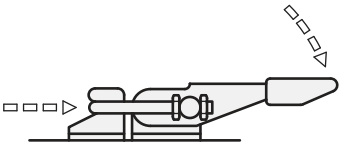
Push-pull type toggle clamps

On these clamps the swinging movement of the operating handle is converted into an axial movement to push or pull the plunger.
With the exception of two versions (GN 841 see page 1588) , they lock at the end of their stroke in both directions. For this reason they lend themselves for push or pull operations.



Latch type toggle clamps

On these clamps the swinging movement of the operating handle is converted into an axial movement to pull the hook.
Latch clamps are available with and without locking mechanism.

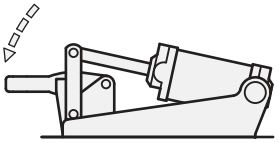


Pneumatic toggle clamps

These toggle clamps combine the advantages of clamping by the toggle principle (clamp remains in the clamping position even in the event of air pressure loss!) with the advantages offered by pneumatics i.e.:

- constant clamping force Fs independent of the operator,
- several clamps can be operated simultaneously,
- pneumatic toggle clamps can be energised from various operating points (remote control, co-ordinated and controlled by other machines),
- some variants are available with an air cylinder which allows control via a proximity switch, to give an electrical impulse when the clamp has reached a specific position within its clamping cycle.

Pneumatic toggle clamps are available as vertical and push rod versions.



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Vertical acting toggle clamps

Steel / Stainless Steel, with horizontal mounting base

SPECIFICATION

Types

- Type **A**: U-bar version, with two flanged washers
- Type **C**: U-bar version, with two flanged washers and GN 708.1 spindle assembly (see page 1625)
- Type **E**: Solid bar version, with clasp

Version in Steel

- Case-hardened Steel C10, zinc plated, blue passivated
- Bearing pins tempered
- Bearing rivets (for size 230 and up), case-hardened

All moving parts
lubricated with special grease

Hand grip
High quality, oil resistant red plastic

Spindle assembly GN 708.1 , Type A (see page 1625)

- Steel, zinc plated
- Rubber tip 85 Shore A

Version in Stainless Steel NI

Stainless Steel AISI 304

All moving parts
lubricated with special grease

Hand grip
High quality, oil resistant red plastic

Spindle assembly GN 708.1 , Type A (see page 1625)

- Stainless Steel AISI 304
- Rubber tip 85 Shore A

ACCESSORY

- Spindle assemblies (see page 1623)
- GN 801 clamp mounts for toggle clamps (for Type A) (see page 1629)
- GN 809 clamp mounts for toggle clamps (for Type E) (see page 1630)

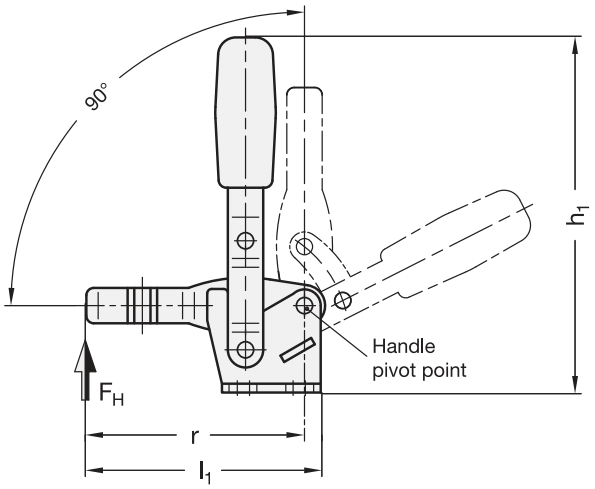
INFORMATION

GN 810 vertical acting toggle clamps work according to the toggle principle: lever and clamping bar move in the same direction. In the clamped position the operating lever is in its vertical position.
Vertical acting toggle clamps in the U-bar version with two flanged washers (Type A) can accommodate an application specific clamping screw. A spindle assembly with neoprene rubber tip is also included for Type C.
Type E version can either be utilized by welding the clasp which can then accommodate an application specific hold-down fastener component, or by utilizing the bar in conjunction with the GN 809 (see page 1630) clamp mounts to hold the work piece in place.

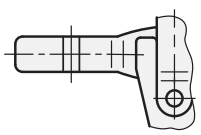
- General information for toggle clamps (see page 1560)

Type **A**

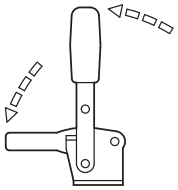
Type **C**



Type **E**



Operating principle



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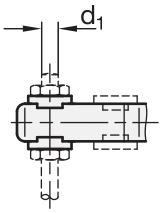
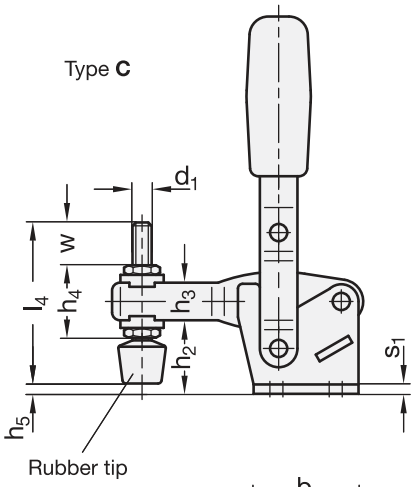
GN 810

Vertical acting toggle clamps

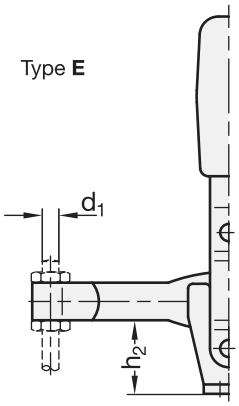
Type **A**



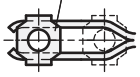
Type **C**

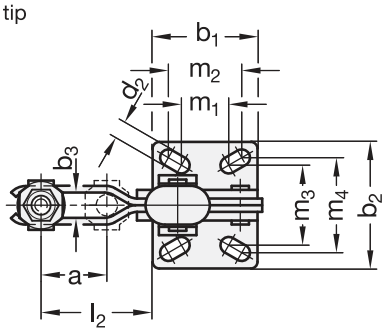


Type **E**

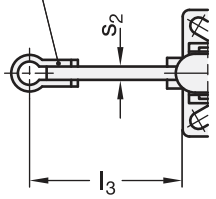


Flanged washers movable





Clasp weldable



GN 810

Description	Size	FH in N	a ≈	b1	b2	b3	d1	d2 ≈	h1 ≈	h2	h3	h4	h5	l1 ≈	l2 ≈	l3 max.	l4	m1	m2	m3	m4	r ≈	s1	s2	w	⚖
GN 810-75-A	75	750	20	29	34	5.2	M 5	4.5	98	20.5	11	-	-	66.5	31.5	-	-	15	16	24	24	62.5	2	-	-	98
GN 810-130-A	130	1050	28	35	42	6.2	M 6	5.5	142	28	16	-	-	85	42	-	-	12.5	19	27	29	79.5	2.5	-	-	220
GN 810-230-A	230	2000	40	43	45	8.5	M 8	6.5	168	33.5	18	-	-	110.5	58	-	-	19	20	32	32	104	3	-	-	370
GN 810-330-A	330	2400	43	50	65	10.5	M 10	8.5	195	43	22	-	-	129	66	-	-	29	32	45	46	122	3.5	-	-	601
GN 810-430-A	430	2800	64	58	65	12.5	M 12	8.5	247	55.5	26	-	-	164	88	-	-	32	32	45	45	156	4	-	-	1050
GN 810-530-A	530	4500	90	80	95	12.5	M 12	12.5	303	84.5	32	-	-	223	125	-	-	50	51	70	70	212	7	-	-	2100
GN 810-75-C	75	750	20	29	34	5.2	M 5	4.5	98	20.5	11	19	5.5	66.5	31.5	-	45	15	16	24	24	62.5	2	-	15	100
GN 810-130-C	130	1050	28	35	42	6.2	M 6	5.5	142	28	16	25.5	11.3	85	42	-	55	12.5	19	27	29	79.5	2.5	-	17.5	230
GN 810-230-C	230	2000	40	43	45	8.5	M 8	6.5	168	33.5	18	30	9.5	110.5	58	-	68	19	20	32	32	104	3	-	20	400
GN 810-330-C	330	2400	43	50	65	10.5	M 10	8.5	195	43	22	37	15	129	66	-	77	29	32	45	46	122	3.5	-	19	600
GN 810-430-C	430	2800	64	58	65	12.5	M 12	8.5	247	55.5	26	43	23	164	88	-	100	32	32	45	45	156	4	-	33	1100
GN 810-530-C	530	4500	90	80	95	12.5	M 12	12.5	303	84.5	32	49	52	223	125	-	100	50	51	70	70	212	7	-	27	2180
GN 810-75-E	75	750	-	29	34	-	M 5	4.5	98	20.5	11	-	-	67	-	41	-	15	16	24	24	62.5	2	4	-	106
GN 810-130-E	130	1050	-	35	42	-	M 6	5.5	142	28	16	-	-	86	-	54	-	12.5	19	27	29	79.5	2.5	5	-	220
GN 810-230-E	230	2000	-	43	45	-	M 8	6.5	168	33.5	18	-	-	112	-	73	-	19	20	32	32	104	3	6	-	401
GN 810-330-E	330	2400	-	50	65	-	M 10	8.5	195	43	22	-	-	130.5	-	86	-	29	32	45	46	122	3.5	7	-	580
GN 810-430-E	430	2800	-	58	65	-	M 12	8.5	247	55.5	26	-	-	166	-	114	-	32	32	45	45	156	4	10	-	1090
GN 810-530-E	530	4500	-	80	95	-	M 12	12.5	303	84.5	32	-	-	225	-	152	-	50	51	70	70	212	7	10	-	2066

GN 810-NI

STAINLESS STEEL

Description	Size	FH in N	a ≈	b1	b2	b3	d1	d2 ≈	h1 ≈	h2	h3	h4	h5	l1 ≈	l2 ≈	l3 max.	l4	m1	m2	m3	m4	r ≈	s1	s2	w	⚖
GN 810-75-A-NI	75	750	20	29	34	5.2	M 5	4.5	98	20.5	11	-	-	66.5	31.5	-	-	15	16	24	24	62.5	2	-	-	92
GN 810-130-A-NI	130	1050	28	35	42	6.2	M 6	5.5	142	28	16	-	-	85	42	-	-	12.5	19	27	29	79.5	2.5	-	-	228
GN 810-230-A-NI	230	2000	40	43	45	8.5	M 8	6.5	168	33.5	18	-	-	110.5	58	-	-	19	20	32	32	104	3	-	-	379
GN 810-75-C-NI	75	750	20	29	34	5.2	M 5	4.5	98	20.5	11	19	5.5	66.5	31.5	-	45	15	16	24	24	62.5	2	-	15	92
GN 810-130-C-NI	130	1050	28	35	42	6.2	M 6	5.5	142	28	16	25.5	11.3	85	42	-	55	12.5	19	27	29	79.5	2.5	-	17.5	228
GN 810-230-C-NI	230	2000	40	43	45	8.5	M 8	6.5	168	33.5	18	30	9.5	110.5	58	-	68	19	20	32	32	104	3	-	20	390
GN 810-75-E-NI	75	750	-	29	34	-	M 5	4.5	98	20.5	11	-	-	67	-	41	-	15	16	24	24	62.5	2	4	-	100
GN 810-130-E-NI	130	1050	-	35	42	-	M 6	5.5	142	28	16	-	-	86	-	54	-	12.5	19	27	29	79.5	2.5	5	-	230
GN 810-230-E-NI	230	2000	-	43	45	-	M 8	6.5	168	33.5	18	-	-	112	-	73	-	19	20	32	32	104	3	6	-	389

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Vertical acting toggle clamps

Steel / Stainless Steel, with vertical mounting base

SPECIFICATION

Types

- Type **B**: U-bar version, with two flanged washers
- Type **BC**: U-bar version, with two flanged washers and GN 708.1 spindle assembly (see page 1625)
- Type **F**: Solid bar version, with clasp

Version in Steel

- Case-hardened Steel C10, zinc plated, blue passivated
- Bearing pins tempered
- Bearing rivets (for size 230 and up), case-hardened

All moving parts
lubricated with special grease

Hand grip
High quality, oil resistant red plastic

Spindle assembly GN 708.1 , Type A (see page 1625)

- Steel, zinc plated
- Rubber tip 85 Shore A

Version in Stainless Steel NI

Stainless Steel AISI 304

All moving parts
lubricated with special grease

Hand grip
High quality, oil resistant red plastic

Spindle assembly GN 708.1 , Type A (see page 1625)

- Stainless Steel AISI 304
- Rubber tip 85 Shore A

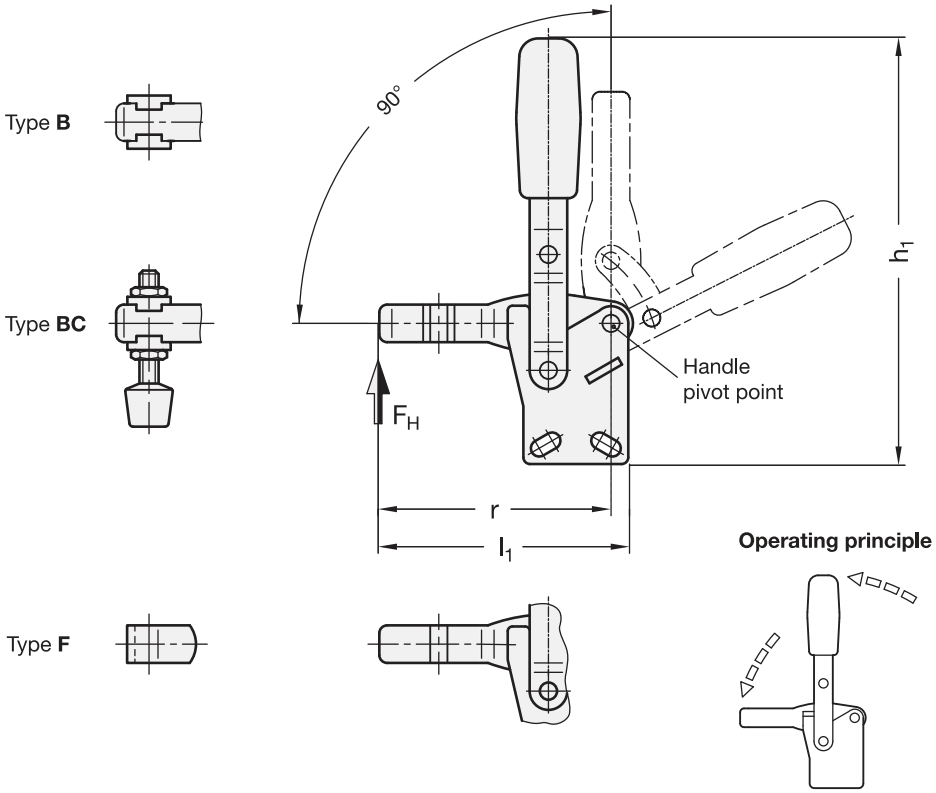
ACCESSORY

- Spindle assemblies (see page 1623)
- GN 801 clamp mounts for toggle clamps (for Type B) (see page 1629)
- GN 809 clamp mounts for toggle clamps (for Type F) (see page 1630)

INFORMATION

GN 810.1 vertical acting toggle clamps work according to the toggle principle: lever and clamping bar move in the same direction. In the clamped position the operating lever is in its vertical position.
Vertical acting toggle clamps in the U-bar version with two flanged washers (Type B) can accommodate an application specific clamping screw. A spindle assembly with neoprene rubber tip is also included for Type BC.
Type F version can either be utilized by welding the clasp which can then accommodate an application specific hold-down fastener component, or by utilizing the bar in conjunction with the GN 809 (see page 1630) clamp mounts to hold the work piece in place.

- General information for toggle clamps (see page 1560)



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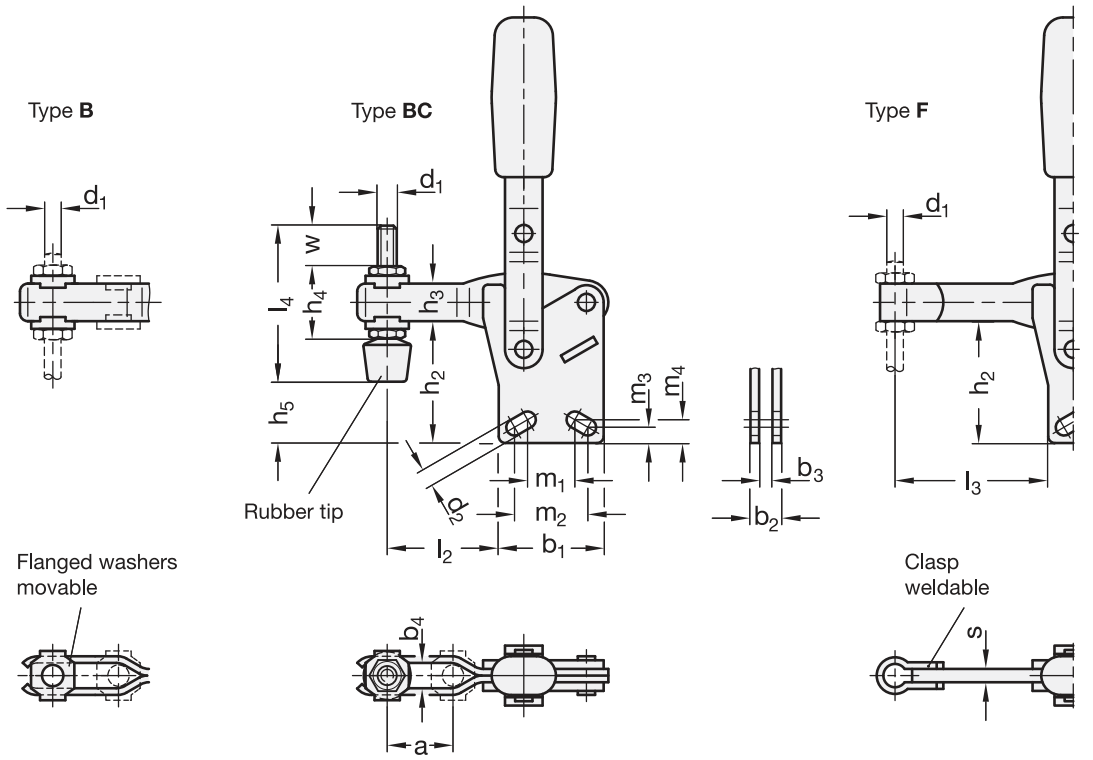
GN 810.1 | Vertical acting toggle clamps



GN 810.1

Description	Size	FH in N	a ≈	b1	b2	b3	b4	d1	d2 ≈	h1 ≈	h2	h3	h4	h5 max.	l1 ≈	l2 ≈	l3 max.	l4	m1	m2	m3	m4	r ≈	s	w	⚖
GN 810.1-75-B	75	750	20	29	8	4	5.2	M 5	4.5	109	32	11	-	-	66.5	31.5	-	-	15	16	5	5	62.5	-	-	100
GN 810.1-130-B	130	1050	28	35	10	5	6.2	M 6	5.5	156	41.5	16	-	-	85	42	-	-	12.5	19	6.5	7.5	79	-	-	228
GN 810.1-230-B	230	2000	40	43	12	6	8.5	M 8	6.5	183	48	18	-	-	110.5	58	-	-	19	20	6.5	6.5	104	-	-	387
GN 810.1-330-B	330	2400	43	50	14	7	10.5	M 10	8.5	218	66	22	-	-	129	66	-	-	28.7	32.3	10	9.5	122	-	-	550
GN 810.1-430-B	430	2800	64	58	18	10	12.5	M 12	8.5	268	77.5	26	-	-	164	88	-	-	32	32	10	10	156	-	-	1140
GN 810.1-530-B	530	4500	90	77	18	10	12.5	M 12	12.5	337	117.5	32	-	-	223	128	-	-	50	51	12.5	12.5	212	-	-	1870
GN 810.1-75-BC	75	750	20	29	8	4	5.2	M 5	4.5	109	32	11	19	17	66.5	31.5	-	45	15	16	5	5	62.5	-	15	109
GN 810.1-130-BC	130	1050	28	35	10	5	6.2	M 6	5.5	156	41.5	16	25.5	25	85	42	-	55	12.5	19	6.5	7.5	79	-	17.5	200
GN 810.1-230-BC	230	2000	40	43	12	6	8.5	M 8	6.5	183	48	18	30	24	110.5	58	-	68	19	20	6.5	6.5	104	-	20	400
GN 810.1-330-BC	330	2400	43	50	14	7	10.5	M 10	8.5	218	66	22	37	39.5	129	66	-	77	28.7	32.3	10	9.5	122	-	19	600
GN 810.1-430-BC	430	2800	64	58	18	10	12.5	M 12	8.5	268	77.5	26	43	45	164	88	-	100	32	32	10	10	156	-	33	1100
GN 810.1-530-BC	530	4500	90	77	18	10	12.5	M 12	12.5	337	117.5	32	49	85	223	128	-	100	50	51	12.5	12.5	212	-	27	1960
GN 810.1-75-F	75	750	-	29	8	4	-	M 5	4.5	109	32	11	-	-	67	-	41	-	15	16	5	5	62.5	4	-	102
GN 810.1-130-F	130	1050	-	35	10	5	-	M 6	5.5	156	41.5	16	-	-	86	-	54	-	12.5	19	6.5	7.5	79	5	-	234
GN 810.1-230-F	230	2000	-	43	12	6	-	M 8	6.5	183	48	18	-	-	112	-	73	-	19	20	6.5	6.5	104	6	-	400
GN 810.1-330-F	330	2400	-	50	14	7	-	M 10	8.5	218	66	22	-	-	130.5	-	86	-	28.7	32.3	10	9.5	122	7	-	600
GN 810.1-430-F	430	2800	-	58	18	10	-	M 12	8.5	268	77.5	26	-	-	166	-	114	-	32	32	10	10	156	10	-	1100
GN 810.1-530-F	530	4500	-	77	18	10	-	M 12	12.5	337	117.5	32	-	-	225	-	155	-	50	51	12.5	12.5	212	10	-	1900

GN 810.1-NI

STAINLESS STEEL

Description	Size	FH in N	a ≈	b1	b2	b3	b4	d1	d2 ≈	h1 ≈	h2	h3	h4	h5 max.	l1 ≈	l2 ≈	l3 max.	l4	m1	m2	m3	m4	r ≈	s	w	⚖
GN 810.1-75-B-NI	75	750	20	29	8	4	5.2	M 5	4.5	109	32	11	-	-	66.5	31.5	-	-	15	16	5	5	62.5	-	-	97
GN 810.1-130-B-NI	130	1050	28	35	10	5	6.2	M 6	5.5	156	41.5	16	-	-	85	42	-	-	12.5	19	6.5	7.5	79	-	-	228
GN 810.1-230-B-NI	230	2000	40	43	12	6	8.5	M 8	6.5	183	48	18	-	-	110.5	58	-	-	19	20	6.5	6.5	104	-	-	379
GN 810.1-75-BC-NI	75	750	20	29	8	4	5.2	M 5	4.5	109	32	11	19	17	66.5	31.5	-	45	15	16	5	5	62.5	-	15	107
GN 810.1-130-BC-NI	130	1050	28	35	10	5	6.2	M 6	5.5	156	41.5	16	25.5	25	85	42	-	55	12.5	19	6.5	7.5	79	-	17.5	220
GN 810.1-230-BC-NI	230	2000	40	43	12	6	8.5	M 8	6.5	183	48	18	30	24	110.5	58	-	68	19	20	6.5	6.5	104	-	20	400
GN 810.1-75-F-NI	75	750	-	29	8	4	-	M 5	4.5	109	32	11	-	-	67	-	41	-	15	16	5	5	62.5	4	-	100
GN 810.1-130-F-NI	130	1050	-	35	10	5	-	M 6	5.5	156	41.5	16	-	-	86	-	54	-	12.5	19	6.5	7.5	79	5	-	235
GN 810.1-230-F-NI	230	2000	-	43	12	6	-	M 8	6.5	183	48	18	-	-	112	-	73	-	19	20	6.5	6.5	104	6	-	390

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Heavy duty vertical acting toggle clamps

with horizontal mounting base „Longlife“

SPECIFICATION

Types

- Type **A**: Clamping arm with slotted hole (only sizes 220 and 440)
- Type **E**: Clamping arm with bushing

Toggle clamp steel

- Precision casting
- blackened

Lever arm steel

- forged
- blackened

Parts in sheet metal

- case-hardened steel
- blackened

Bearing pins and rivets steel
hardened and ground

All moving parts
lubricated with special grease

Hand grip
High quality, oil resistant red plastic

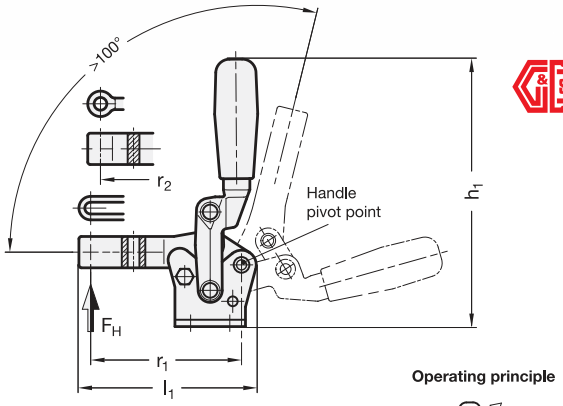
INFORMATION

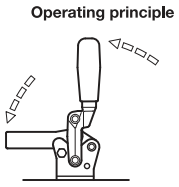
GN 910 heavy duty vertical acting toggle clamps "Longlife" are an advanced development of GN 810 (see page 1562): The steel sheet design of the clamp and lever arms is replaced by precision or die-forged components. The remaining steel sheet parts have been reinforced, bearing pins and rivets are hardened and ground.
These vertical clamps are therefore suitable for applications in which substantial forces occur and in which a long service life is required.
Extensive tests have shown that trouble-free function (under load) is ensured also after one million clamping cycles.
Stepped side washers are included.

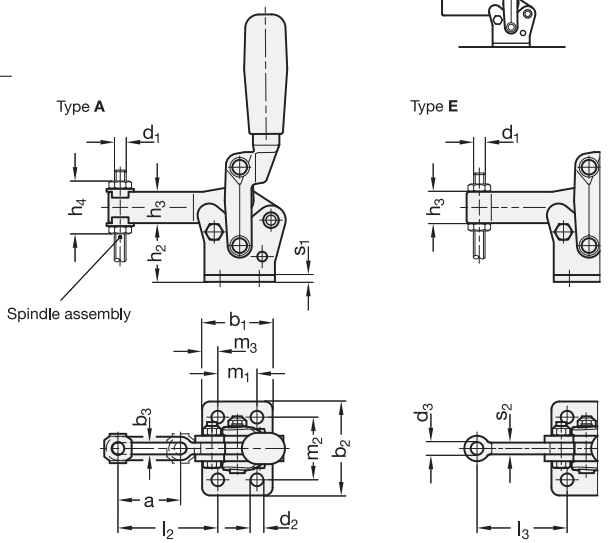
- General information for toggle clamps (see page 1560)

ACCESSORY

- Spindle assemblies (see page 1623)







GN 910

Description	Size	FH in N	a	b1	b2	b3	d1	d2	d3	h1	h2	h3	h4 ≈	l1	l2	l3	m1	m2	m3	r1	r2	s1	s2	⚖
GN 910-220-A	220	2200	32	36	48	6	M 6	6.5	-	136.5	30	16	27	91	51	-	20	32	8	77	-	3.5	-	330
GN 910-440-A	440	4400	34	54	65	10	M 10	8.5	-	215	50	24	45	129.5	66	-	30	45	12	107	-	5	-	1000
GN 910-220-E	220	2200	-	36	48	-	M 6	6.5	6.5	136.5	30	16	-	86	-	46	20	32	8	-	72	3.5	6	320
GN 910-440-E	440	4400	-	54	65	-	M 10	8.5	10.5	215	50	24	-	129.5	-	66	30	45	12	-	107	5	10	1200
GN 910-850-E	850*	8500	-	75	75	-	M 12	10.5	12.5	280	67	30	-	161	-	72	55	55	10	-	133	6	12	2200
GN 910-1540-E	1540*	15400	-	90	100	-	M 16	12.5	16.5	330	76.5	35	-	203	-	92.5	65	65	12.5	-	167	8	16	4600

* This size is fitted with a round handle at the lever arm and available only in type E.

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GN 910.1

Heavy duty vertical acting toggle clamps

with vertical mounting base „Longlife“

SPECIFICATION

Types

- Type **B**: Clamping arm with slotted hole (only sizes 220 and 440)
- Type **F**: Clamping arm with bushing

Toggle clamp steel

- Precision casting
- blackened

Lever arm steel

- forged
- blackened

Parts in sheet metal

- case-hardened steel
- blackened

Bearing pins and rivets steel
hardened and ground

All moving parts
lubricated with special grease

Hand grip
High quality, oil resistant red plastic

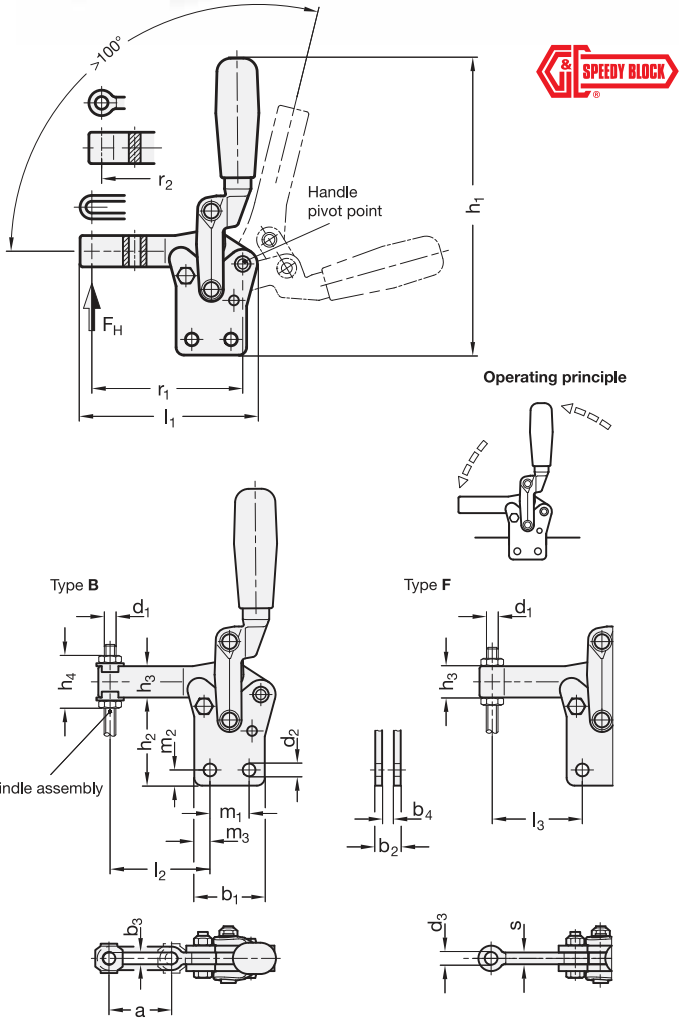
INFORMATION

GN 910.1 heavy duty vertical acting toggle clamps "Longlife" are an advanced development of GN 810.1 (see page 1564): The steel sheet design of the clamp and lever arms is replaced by precision or die-forged components. The remaining steel sheet parts have been reinforced, bearing pins and rivets are hardened and ground.
These vertical clamps are therefore suitable for applications in which substantial forces occur and in which a long service life is required.
Extensive tests have shown that trouble-free function (under load) is ensured also after one million clamping cycles.
Stepped side washers are included.

- General information for toggle clamps (see page 1560)

ACCESSORY

- Spindle assemblies (see page 1623)
- GN 801 clamp mounts for toggle clamps (for Type B) (see page 1629)



GN 910.1

Description	Size	FH in N	a	b1	b2	b3	b4	d1	d2	d3	h1	h2	h3	h4 ≈	l1	l2	l3	m1	m2	m3	r1	r2	s	⚖
GN 910.1-220-B	220	2200	32	36	13	6	6	M 6	6.5	-	152	45.5	16	27	91	51	-	20	8	8	77	-	-	330
GN 910.1-440-B	440	4400	34	54	20	10	10	M 10	8.5	-	235	69.5	24	45	129.5	66	-	30	10	12	107	-	-	1200
GN 910.1-220-F	220	2200	-	36	13	-	6	M 6	6.5	6.5	152	45.5	16	-	86	-	46	20	8	8	-	72	6	325
GN 910.1-440-F	440	4400	-	54	20	-	10	M 10	8.5	10.5	235	69.5	24	-	129.5	-	66	30	10	12	-	107	10	1200
GN 910.1-850-F	850*	8500	-	75	24	-	12	M 12	10.5	12.5	301	88	30	-	161	-	72	55	10	10	-	133	12	2200
GN 910.1-1540-F	1540*	15400	-	90	32	-	16	M 16	12.5	16.5	344	106	35	-	203	-	92.5	65	17.5	12.5	-	167	16	4500

* This size is fitted with a round handle at the lever arm and available only in type F.

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Heavy duty knee lever modules

with horizontal or vertical mounting base, to screw-on

SPECIFICATION

Types

- Type **C**: Mounting holes vertical to the handle pivot point
- Type **G**: Mounting holes parallel to the handle pivot point

Lever arm steel

- forged
- blackened

Parts in sheet metal

- case-hardened steel C10
- blackened

Bearing pins and rivets steel
hardened and ground

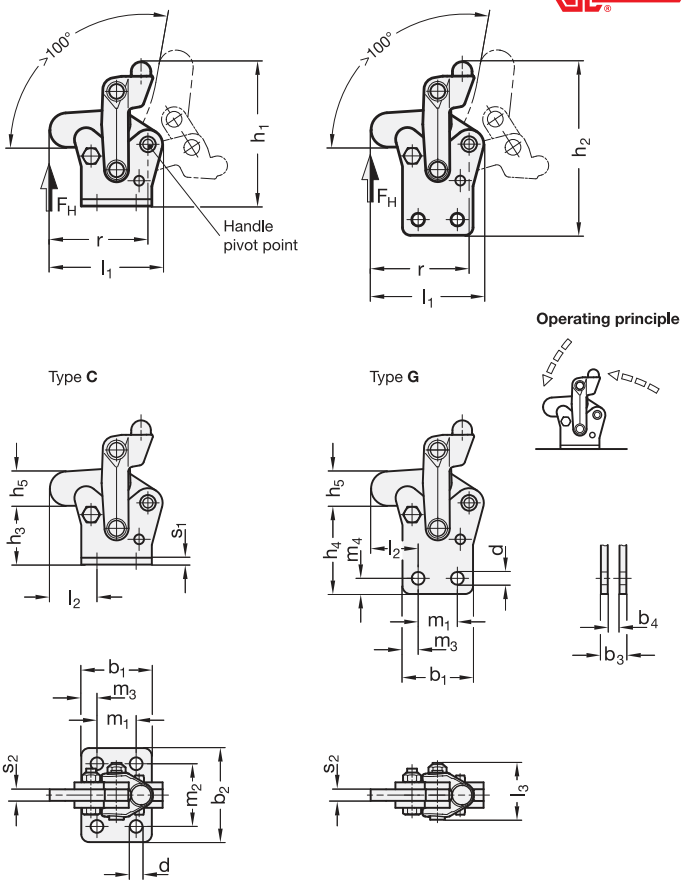
All moving parts
lubricated with special grease

INFORMATION

GN 910.2 heavy duty knee lever modules have the same properties and attributes as the "Longlife" GN 910 (see page 1566) / GN 910.1 (see page 1567) heavy duty vertical acting toggle clamps: The clamping arms are die-forged, the remaining steel sheet parts have been reinforced and bearing pins and rivets are hardened and ground.
These knee lever modules are therefore suitable for applications in which substantial forces occur and in which a long service life is required.
Extensive tests have shown that trouble-free function (under load) is ensured also after one million clamping cycles.
These knee lever modules permit the size and position of the lever and clamping arms to be adjusted to match the specific application.
- General information for toggle clamps (see page 1560)

ACCESSORY

- Handles, levers, clamping arm extenders, bushings, base plates (see page 1570)



GN 910.2

Description	Size	FH in N	b1	b2	b3	b4	d	h1	h2	h3	h4	h5	l1	l2	l3	m1	m2	m3	m4	r	s1	s2	⚖
GN 910.2-220-C	220	2200	36	48	13	6	6.5	74	-	30	-	17.5	57.5	24	29	20	32	-	-	50	3.5	6	256
GN 910.2-440-C	440	4400	54	65	20	10	8.5	121	-	50	-	28	85.5	32	42.5	30	45	-	-	73	5	10	967
GN 910.2-850-C	850	8500	75	75	24	12	10.5	158	-	67	-	35	115	38	52	55	55	-	-	99	6	12	1967
GN 910.2-1540-C	1540	15400	90	100	34	16	12.5	193	-	76.5	-	40	147.5	53	68	65	75	-	-	127.5	8	16	3980
GN 910.2-220-G	220	2200	36	-	13	6	6.5	-	89	-	45.5	17.5	57.5	24	29	20	-	8	8	50	-	6	256
GN 910.2-440-G	440	4400	54	-	20	10	8.5	-	140.5	-	69.5	28	85.5	32	42.5	30	-	12	10	73	-	10	967
GN 910.2-850-G	850	8500	75	-	24	12	10.5	-	180	-	88	35	115	38	52	55	-	10	10	99	-	12	1900
GN 910.2-1540-G	1540	15400	90	-	34	16	12.5	-	222	-	106	40	147.5	53	68	65	-	12.5	17.5	127.5	-	16	4000

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GN 910.3

Heavy duty knee lever modules

for welding

SPECIFICATION

Lever arm steel

- forged
- blackened

Parts in sheet metal

- case-hardened steel C10
- blackened

Bearing pins and rivets steel
hardened and ground

All moving parts
lubricated with special grease

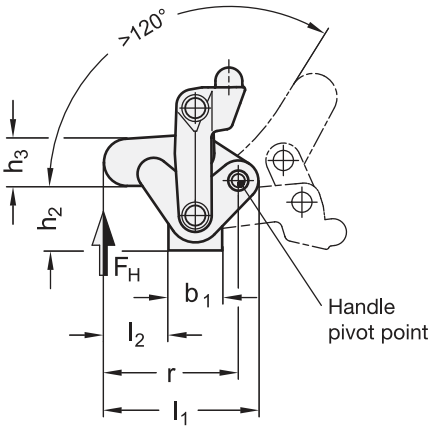
INFORMATION

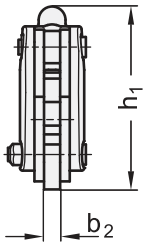
GN 910.3 heavy duty knee lever modules have the same properties and attributes as the "Longlife" GN 910 (see page 1566) / GN 910.1 (see page 1567) heavy duty vertical acting toggle clamps: The clamping arms are die-forged, the remaining steel sheet parts have been reinforced and bearing pins and rivets are hardened and ground.
These knee lever modules are therefore suitable for applications in which substantial forces occur and in which a long service life is required.
Extensive tests have shown that trouble-free function (under load) is ensured also after one million clamping cycles.
These knee lever modules permit the size and position of the lever and clamping arms to be adjusted to match the specific application.
The actual module is welded on.

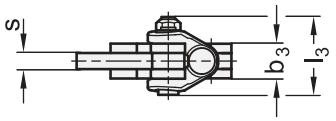
- General information for toggle clamps (see page 1560)

ACCESSORY

- Handles, levers, clamping arm extenders, bushings, base plates (see page 1570)







GN 910.3

Description	Size	FH in N	b1	b2	b3	h1	h2	h3	l1	l2	l3	r	s	⚖
GN 910.3-220	220	2200	20	6	13	68	24	17.5	57.5	24	29	50	6	268
GN 910.3-440	440	4400	30	10	20	113	42	28	85.5	32	42.5	73	10	820
GN 910.3-850	850	8500	50	12	24	148	57	35	115	40.5	52	99	12	1620
GN 910.3-1540	1540	15400	60	16	32	183	66.5	40.5	147.5	55.5	68	127.5	16	3420

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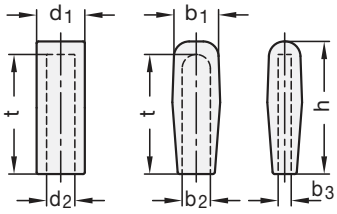
Accessories for heavy duty knee lever modules

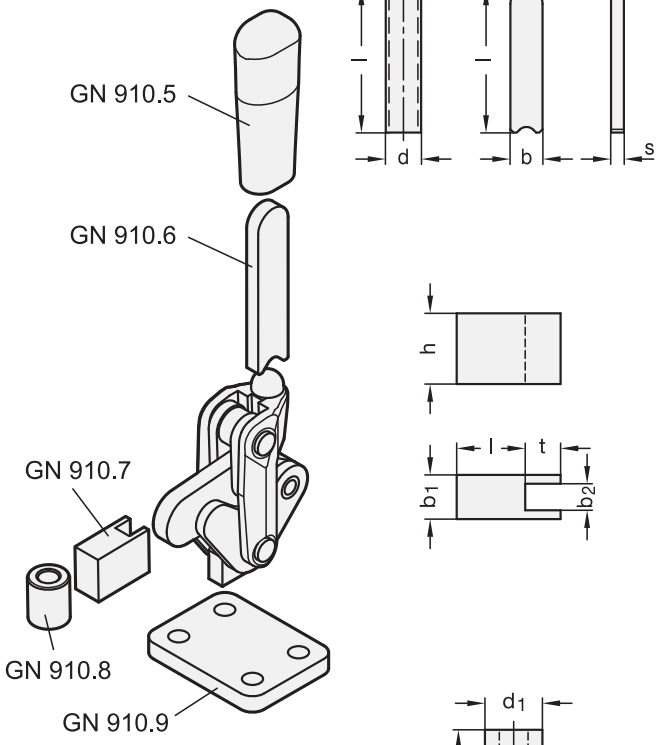
GN 910.2 and GN 910.3



Handles

GN 910.5

Description	Size	b1	d1	b2	d2	b3	h	t	⚖
GN 910.5-220	220	22	-	13	-	5	60	55	12
GN 910.5-440	440	31	-	20	-	8	86	77	22
GN 910.5-850	850	-	30	-	22	-	119	112	50
GN 910.5-1540	1540	-	34	-	25	-	119	112	54



Levers

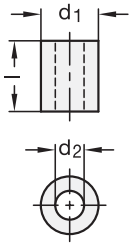
GN 910.6

Description	Size	b	d	l	s	⚖
GN 910.6-220	220	13	-	60	5	31
GN 910.6-440	440	20	-	90	8	108
GN 910.6-850	850	-	22	122	-	122
GN 910.6-1540	1540	-	25	138	-	187

Clamping arm extenders

GN 910.7

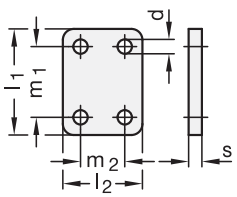
Description	Size	b1	b2	h	l	t	⚖
GN 910.7-220	220	10	6	16	15.5	6.5	23
GN 910.7-440	440	15	10	24	16	8	76
GN 910.7-850	850	20	12	30	22.1	15	130
GN 910.7-1540	1540	25	16.2	35	23.5	-	204



Bushings

GN 910.8

Description	Size	d1	d2	l	⚖
GN 910.8-220	220	13	6.5	16	13
GN 910.8-440	440	20	10.5	24	42
GN 910.8-850	850	24	12.5	30	76
GN 910.8-1540	1540	32	16.5	35	161



Base plates

GN 910.9

Description	Size	d	l1	l2	m1	m2	s	⚖
GN 910.9-220	220	6.5	48	36	32	20	6	74
GN 910.9-440	440	8.5	65	54	45	30	8	205
GN 910.9-850	850	10.5	75	75	55	55	10	400
GN 910.9-1540	1540	12.5	100	90	65	65	10	657

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GN 813

Heavy duty vertical acting toggle clamps

with vertical mounting base

SPECIFICATION

Type

- Type **F**: Solid bar version

Bearing pins and clamping lever
Steel St 60
blackened

Other parts
Steel St 37

- weldable
- blackened

Bearing pins and rivets
case-hardened

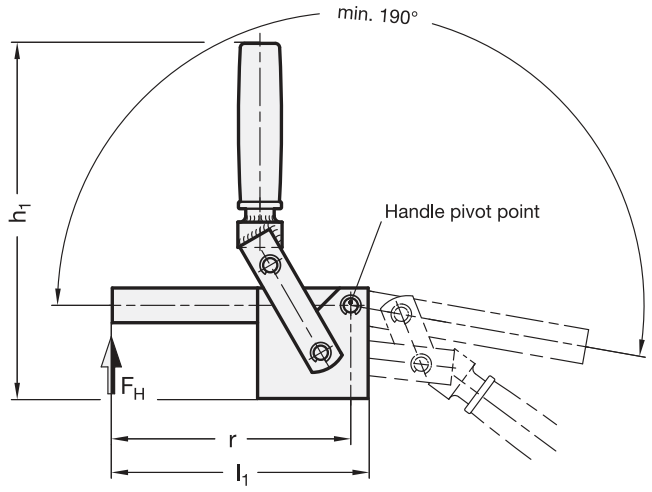
All moving parts
lubricated with special grease

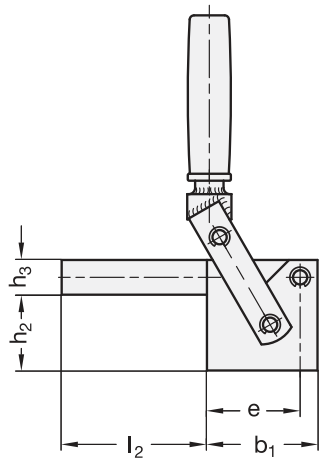
Hand grip
High quality, oil resistant red plastic

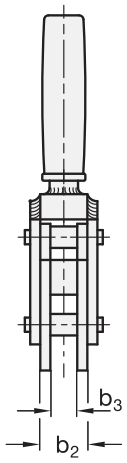
INFORMATION

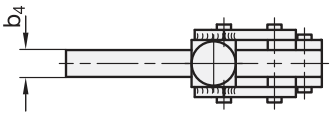
GN 813 vertical acting toggle clamps are used for applications where a very high holding force is required such as closing of foam molds. These clamps have been designed for easy dismantling: i.e. the bearing pins are locked with circlips.
After dismantling the individual parts, they can be modified to suit individual applications.

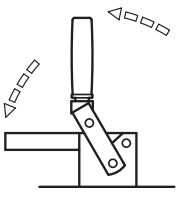
- General information for toggle clamps (see page 1560)











GN 813

Description	Size	FH in N	b1	b2	b3	b4	e	h1	h2	h3	l1	l2	r	⚖
GN 813-1000-F	1000	10000	80	36	20	20	67	265	55	25	190	110	177	2400
GN 813-2000-F	2000	20000	100	36	20	20	82	297	65	35	220	120	202	3540
GN 813-3000-F	3000	30000	110	45	25	25	90	320	80	40	250	140	230	5500

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Vertical acting toggle clamps

with dual flanged mounting base

SPECIFICATION

Types

- Type **AV**: U-bar version, with two flanged washers
- Type **CV**: U-bar version, with two flanged washers and GN 708.1 spindle assembly (see page 1625)
- Type **EV**: Solid bar version, with clasp

Parts in sheet metal
Case-hardened Steel C10, zinc plated, blue passivated

Bearing pins tempered

Bearing rivets case-hardened

All moving parts
lubricated with special grease

Hand grip
High quality, oil resistant red plastic

Spindle assembly GN 708.1 , Type A (see page 1625)

- Steel, zinc plated
- Rubber tip 85 Shore A

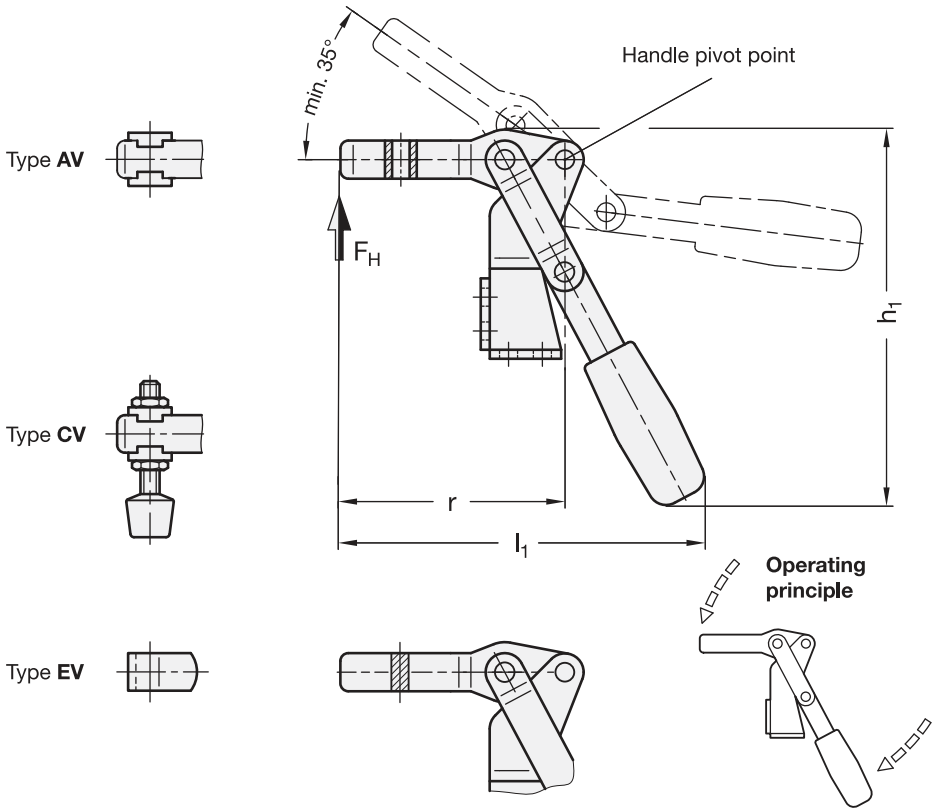
INFORMATION

GN 812 vertical acting toggle clamps work according to the toggle principle: lever and clamping bar move in the same direction. They can be mounted in two planes via the dual flanged mounting base and require less space for the clamping action because the clamping arm and the operating lever move in opposite directions.
Vertical acting toggle clamps in the U-bar version with two flanged washers (Type AV) can accommodate an application specific clamping screw. A spindle assembly with neoprene rubber tip is also included for Type CV.
Type EV version can either be utilized by welding the clasp which can then accommodate an application specific hold-down fastener component, or by utilizing the bar in conjunction with the GN 809 (see page 1630) clamp mounts to hold the work piece in place.

- General information for toggle clamps (see page 1560)

ACCESSORY

- Spindle assemblies (see page 1623)
- GN 801 clamp mounts for toggle clamps (for Type AV) (see page 1629)
- GN 809 clamp mounts for toggle clamps (for Type EV) (see page 1630)



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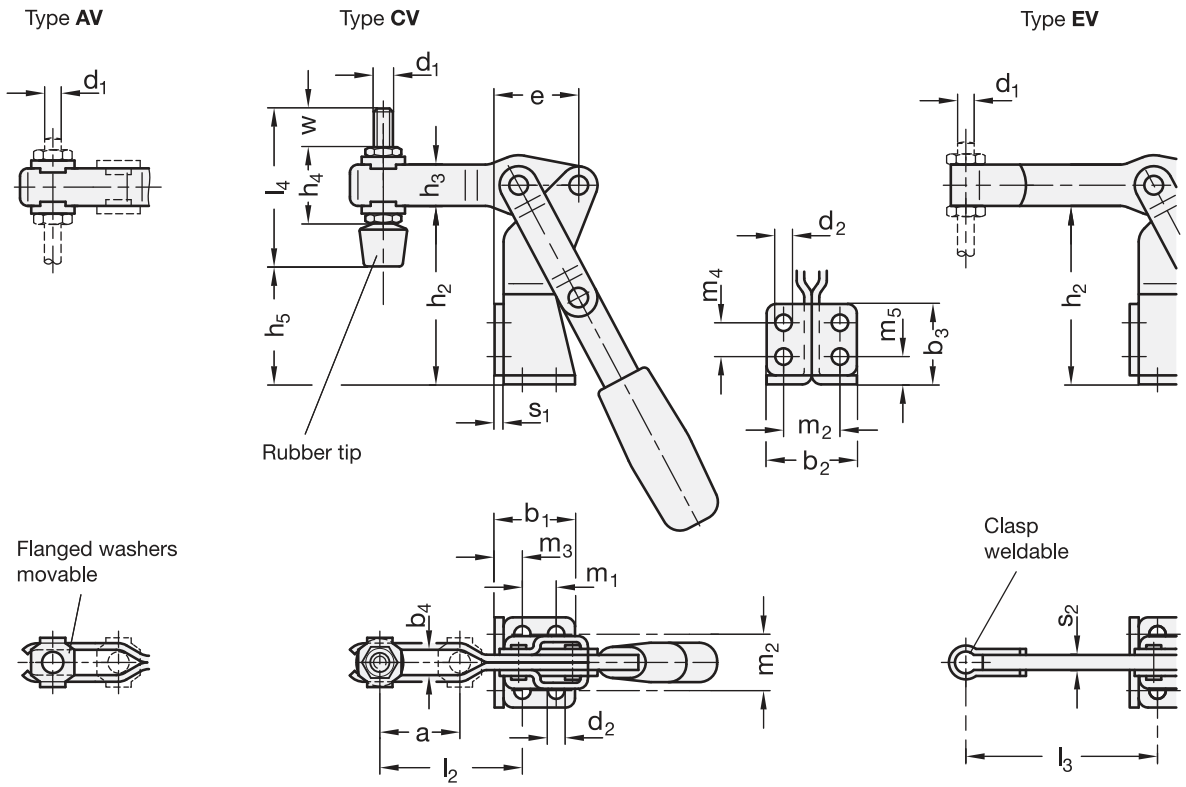

GN 812

Description	Size	FH in N	a ≈	b1	b2	b3	b4	d1	d2	e	h1 ≈	h2	h3	h4	h5 max.	l1 ≈	l2 ≈	l3 max.	l4	m1	m2	m3	m4	m5	r ≈	s1	s2	w	⚖
GN 812-200-AV	200	1200	34	35	38	35	8.5	M 8	6.5	37	154	76	17	-	-	158	59	-	-	16	26	11	16	11	96	3	-	-	420
GN 812-300-AV	300	1900	42	48	48	51	10.4	M 10	8.5	46	198	108	20	-	-	194	74	-	-	28	30	11.5	30	12	122	3	-	-	800
GN 812-200-CV	200	1200	34	35	38	35	8.5	M 8	6.5	37	154	76	17	29	52	158	59	-	68	16	26	11	16	11	96	3	-	21	480
GN 812-300-CV	300	1900	42	48	48	51	10.4	M 10	8.5	46	198	108	20	35	79.5	194	74	-	77	28	30	11.5	30	12	122	3	-	21	880
GN 812-200-EV	200	1200	-	35	38	35	-	M 8	6.5	37	154	76	17	-	-	158	-	76	-	16	26	11	16	11	96	3	6	-	420
GN 812-300-EV	300	1900	-	48	48	51	-	M 10	8.5	46	198	108	20	-	-	194	-	95	-	28	30	11.5	30	12	122	3	8	-	800

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Vertical acting toggle clamps

with dual flanged mounting base

SPECIFICATION

Types

- Type **AVF**: U-bar version, with two flanged washers
- Type **CVF**: U-bar version, with two flanged washers and GN 708.1 spindle assembly (see page 1625)
- Type **EVF**: Solid bar version, with clasp

Parts in sheet metal
Case-hardened Steel C10
zinc plated, blue passivated

Bearing pins tempered

Bearing rivets case-hardened

All moving parts
lubricated with special grease

Hand grip
High quality, oil resistant red plastic

Spindle assembly GN 708.1 , Type A (see page 1625)

- Steel, zinc plated
- Rubber tip 85 Shore A

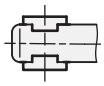
INFORMATION

GN 812.1 vertical acting toggle clamps work according to the toggle principle: lever and clamping bar move in the same direction. In the clamped position the operating lever is in its vertical position.
They can be mounted in two planes via the dual flanged mounting base and require less space for the clamping action.
Vertical acting toggle clamps in the U-bar version with two flanged washers (Type AVF) can accommodate an application specific clamping screw. A spindle assembly with neoprene rubber tip is also included for Type CVF.
Type EVF version can either be utilized by welding the clasp which can then accommodate an application specific hold-down fastener component, or by utilizing the bar in conjunction with the GN 809 (see page 1630) clamp mounts to hold the work piece in place.
- General information for toggle clamps (see page 1560)

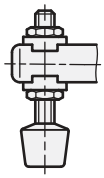
ACCESSORY

- Spindle assemblies (see page 1623)
- GN 809 clamp mounts for toggle clamps (for Type EVF) (see page 1630)
- GN 801 clamp mounts for toggle clamps (for Type AVF) (see page 1629)

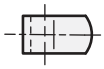
Type **AVF**

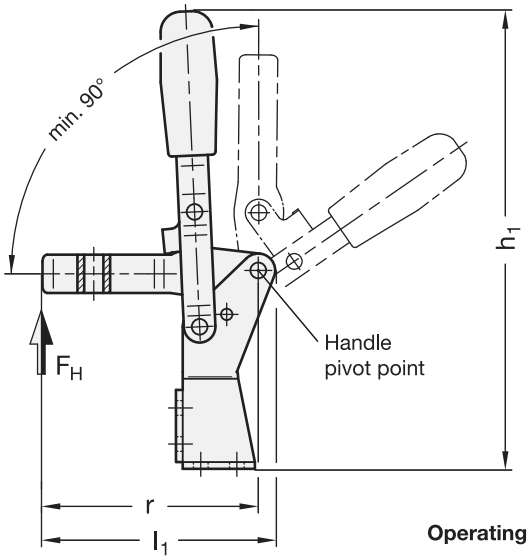


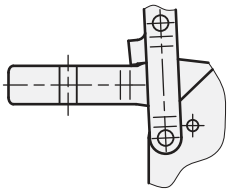
Type **CVF**



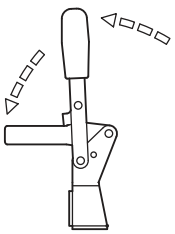
Type **EVF**







Operating principle



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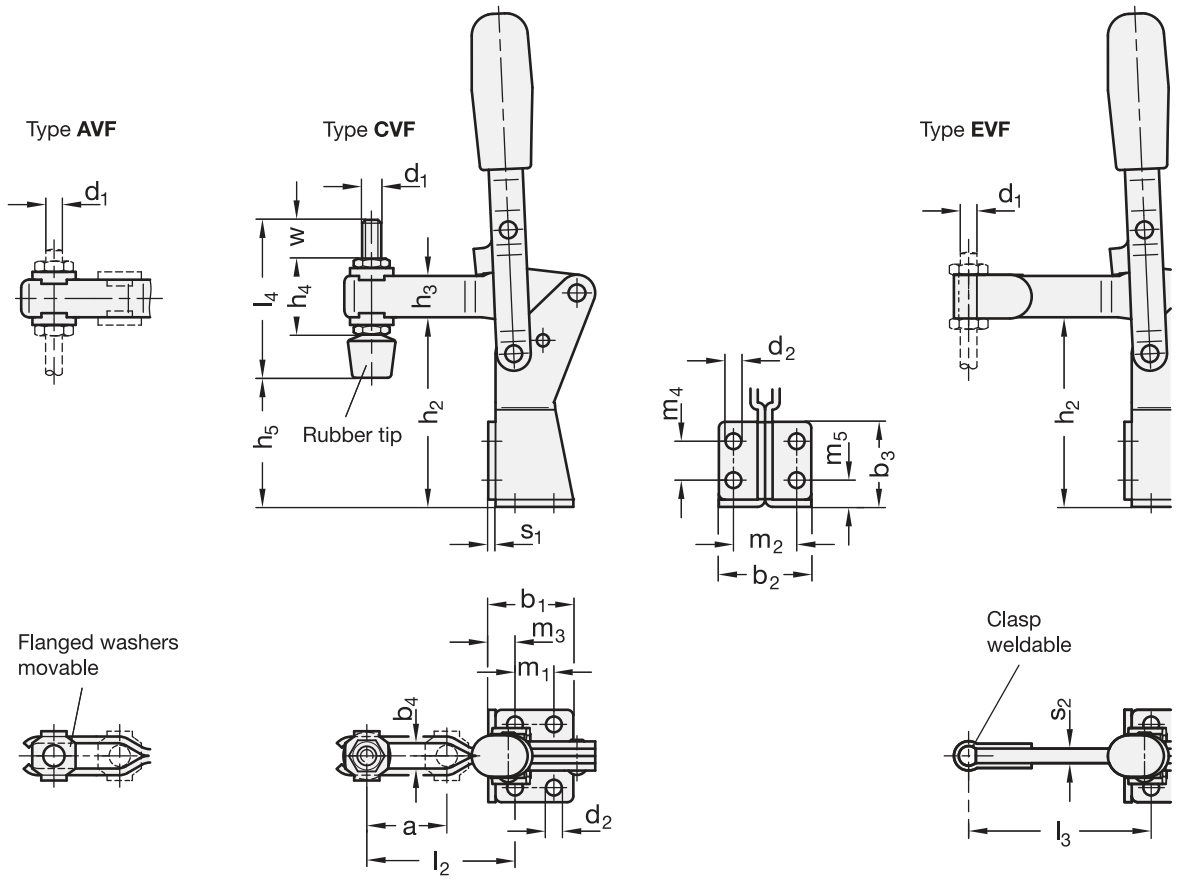
GN 812.1

Vertical acting toggle clamps



GN 812.1

Description	Size	FH in N	a ≈	b1	b2	b3	b4	d1	d2	h1 ≈	h2	h3	h4 ≈	h5 max.	l1 ≈	l2	l3 max.	l4	m1	m2	m3	m4	m5	r	s1	s2	w	⚖
GN 812.1-200-AVF	200	1600	36	35	38	35	8.5	M 8	6.5	203	77	17	-	-	103	61	-	-	16	26	11	16	11	95.5	3	-	-	390
GN 812.1-300-AVF	300	2400	50	48	48	51	10.2	M 10	8.5	258	105	20	-	-	130	75	-	-	28	30	11.5	30	12	121.5	3	-	-	680
GN 812.1-200-CVF	200	1600	36	35	38	35	8.5	M 8	6.5	203	77	17	29	53	103	61	-	68	16	26	11	16	11	95.5	3	-	21	450
GN 812.1-300-CVF	300	2400	50	48	48	51	10.2	M 10	8.5	258	105	20	35	76.5	130	75	-	77	28	30	11.5	30	12	121.5	3	-	21	700
GN 812.1-200-EVF	200	1600	-	35	38	35	-	M 8	6.5	203	77	17	-	-	105	-	85	-	16	26	11	16	11	97.5	3	6	-	400
GN 812.1-300-EVF	300	2400	-	48	48	51	-	M 10	8.5	258	105	20	-	-	132	-	100	-	28	30	11.5	30	12	123	3	8	-	690

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Horizontal acting toggle clamps

Steel / Stainless Steel, with horizontal mounting base

SPECIFICATION

Types

- Type **M**: U-bar version, with two flanged washers
- Type **MC**: U-bar version, with two flanged washers and GN 708.1 spindle assembly (see page 1625)
- Type **O**: Solid bar version, with clasp

Version in Steel

- Case-hardened Steel C10, zinc plated, blue passivated
- Bearing pins tempered
- Bearing rivets (for size 355 and up), case-hardened

All moving parts
lubricated with special grease

Hand grip
High quality, oil resistant red plastic

Spindle assembly GN 708.1 , Type A (see page 1625)

- Steel, zinc plated
- Rubber tip 85 Shore A

Version in Stainless Steel NI

Stainless Steel AISI 304

All moving parts
lubricated with special grease

Hand grip
High quality, oil resistant red plastic

Spindle assembly GN 708.1 , Type A (see page 1625)

- Stainless Steel AISI 304
- Rubber tip 85 Shore A

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)

ACCESSORY

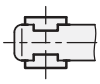
- Spindle assemblies (see page 1623)
- GN 809 clamp mounts for toggle clamps (for Type O) (see page 1630)
- GN 801 clamp mounts for toggle clamps (for Type M) (see page 1629)

INFORMATION

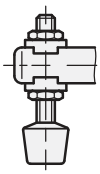
GN 820 horizontal acting toggle clamps work according to the toggle principle: lever and clamping bar move in the opposite direction.
They require less space for the clamping action. In the clamped position the operating lever is in its horizontal position.
Horizontal acting toggle clamps in the U-bar version with two flanged washers (Type M) can accommodate an application specific clamping screw. A spindle assembly with neoprene rubber tip is also included for Type MC.
Type O version can either be utilized by welding the clasp which can then accommodate an application specific hold-down fastener component, or by utilizing the bar in conjunction with the GN 809 (see page 1630) clamp mounts to hold the work piece in place.

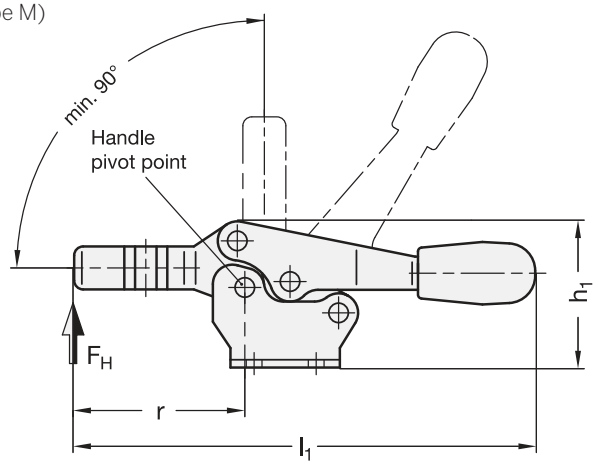
- General information for toggle clamps (see page 1560)

Type **M**

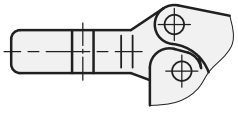


Type **MC**

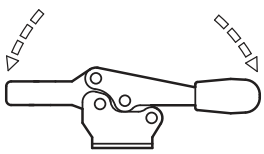




Type **O**



Operating principle



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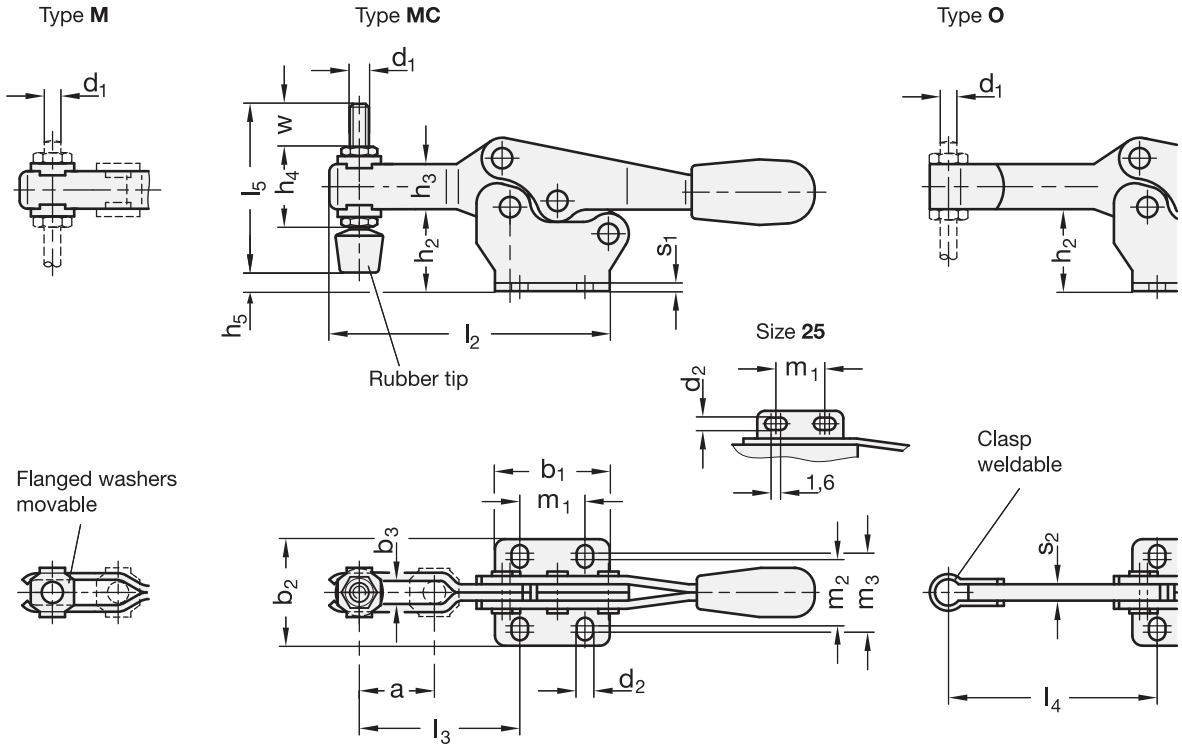
GN 820

Horizontal acting toggle clamps



*Complete with type index of the horizontal acting toggle clamps

M MC O

GN 820

Description	Size	FH in N	a ≈	b1	b2	b3	d1	d2	h1 ≈	h2	h3	h4	h5 max.	l1 ≈	l2 ≈	l3 ≈	l4 max.	l5	m1	m2	m3	r	s1	s2	w	⚖
GN 820-25-*	25**	400	10	24	24.5	4.3	M 4	4.3	23	12	7	13.5	-	69	43	20	-	-	15	16	16	24.5	1.2	-	-	25
GN 820-75-*	75	900	20	28	26	5.5	M 5	4.5	37	20	11	19	5	118	67	40	49.5	45	13.5	16	19	43	2	4	15	85
GN 820-130-*	130	1000	32	36	40	6.5	M 6	5.5	51	30.5	16	25.5	14	168	92	53	64	55	26	22.4	28.4	62	2.5	5	17.5	203
GN 820-230-*	230	1700	37	44	42	8.5	M 8	6.5	61.5	36.5	18	30	12.5	196	110	63.5	78	68	26	26	31.5	72	3	6	20	329
GN 820-355-*	355	1800	58	60	56	10.4	M 10	8.5	83	50	22	37	23.5	270	161	96	115	77	41	38.8	43	108.5	3.5	7	19	700
GN 820-455-*	455	3200	65	70	65	12.4	M 12	8.5	98.5	60	26	43	27.5	309	186	116	135	100	41.5	40	43	126	4	10	33	1200

GN 820-NI

STAINLESS STEEL

Description	Size	FH in N	a ≈	b1	b2	b3	d1	d2	h1 ≈	h2	h3	h4	h5 max.	l1 ≈	l2 ≈	l3 ≈	l4 max.	l5	m1	m2	m3	r	s1	s2	w	⚖
GN 820-25-*-NI	25**	400	10	24	24.5	4.3	M 4	4.3	23	12	7	13.5	-	69	43	20	-	-	15	16	16	24.5	1.2	-	-	20
GN 820-75-*-NI	75	900	20	28	26	5.5	M 5	4.5	37	20	11	19	5	118	67	40	49.5	45	13.5	16	19	43	2	4	15	80
GN 820-130-*-NI	130	1000	32	36	40	6.5	M 6	5.5	51	30.5	16	25.5	14	168	92	53	64	55	26	22.4	28.4	62	2.5	5	17.5	202
GN 820-230-*-NI	230	1700	37	44	42	8.5	M 8	6.5	61.5	36.5	18	30	12.5	196	110	63.5	78	68	26	26	31.5	72	3	6	20	330

** Size 25 only available as type M

Weight type M

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Horizontal acting toggle clamps

Steel / Stainless Steel, with vertical mounting base

SPECIFICATION

Types

- Type **N**: U-bar version, with two flanged washers
- Type **NC**: U-bar version, with two flanged washers and GN 708.1 spindle assembly (see page 1625)
- Type **P**: Solid bar version, with clasp

Version in Steel

- Case-hardened Steel C10, zinc plated, blue passivated
- Bearing pins tempered
- Bearing rivets (for size 355 and up), case-hardened

All moving parts
lubricated with special grease

Hand grip
High quality, oil resistant red plastic

Spindle assembly GN 708.1 , Type A (see page 1625)

- Steel, zinc plated
- Rubber tip 85 Shore A

Version in Stainless Steel NI

Stainless Steel AISI 304

All moving parts
lubricated with special grease

Hand grip
High quality, oil resistant red plastic

Spindle assembly GN 708.1 , Type A (see page 1625)

- Stainless Steel AISI 304
- Rubber tip 85 Shore A

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)

ACCESSORY

- Spindle assemblies (see page 1623)
- GN 801 clamp mounts for toggle clamps (for Type N) (see page 1629)
- GN 809 clamp mounts for toggle clamps (for Type P) (see page 1630)

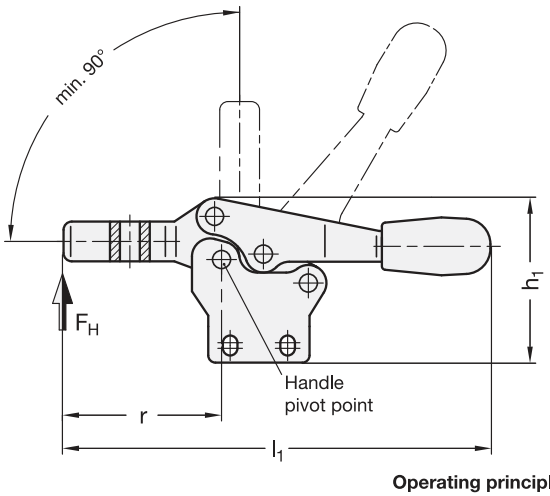
INFORMATION

GN 820.1 horizontal acting toggle clamps work according to the toggle principle: lever and clamping bar move in the opposite direction.
They require less space for the clamping action. In the clamped position the operating lever is in its horizontal position.
Horizontal acting toggle clamps in the U-bar version with two flanged washers (Type N) can accommodate an application specific clamping screw. A spindle assembly with neoprene rubber tip is also included for Type NC.
Type P version can either be utilized by welding the clasp which can then accommodate an application specific hold-down fastener component, or by utilizing the bar in conjunction with the GN 809 (see page 1630) clamp mounts to hold the work piece in place.

- General information for toggle clamps (see page 1560)

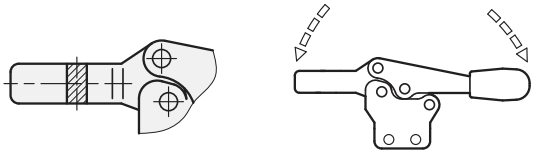
Type **N**

Type **NC**



Operating principle

Type **P**



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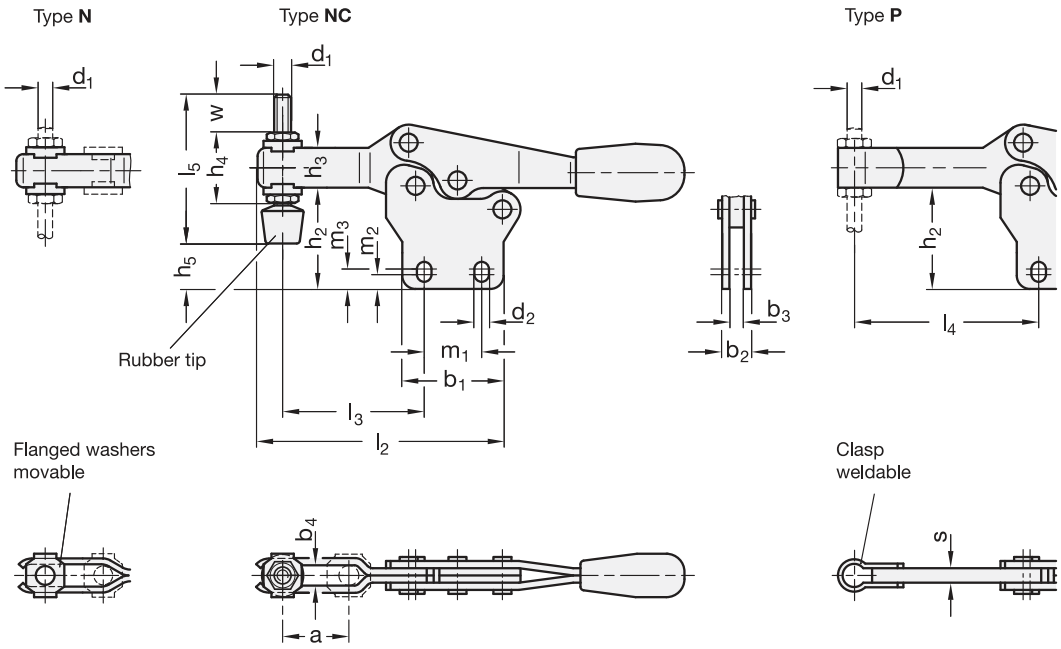
GN 820.1 | Horizontal acting toggle clamps



*Complete with type index of the horizontal acting toggle clamps

N NC P

GN 820.1

Description	Size	FH in N	a ≈	b1	b2	b3	b4	d1	d2	h1 ≈	h2	h3	h4	h5 max.	l1 ≈	l2 ≈	l3 ≈	l4 max.	l5	m1	m2	m3	r ≈	s	w	⚖
GN 820.1-75-*	75	900	20	28	8	4	5.5	M 5	4.5	45.5	27.5	11	19	12.5	118	68	40	49.5	45	13.5	3.5	5	43	4	15	90
GN 820.1-130-*	130	1000	32	36	10	5	6.5	M 6	5.5	64	44	16	25.5	27.5	170	92	53	64	55	26	5.8	8.8	62	5	17.5	200
GN 820.1-230-*	230	1700	37	44	12	6	8.5	M 8	6.5	75	50	18	30	26	196	109	63.5	78	68	26	6.5	9	73	6	20	330
GN 820.1-355-*	355	1800	58	60	14	7	10.4	M 10	8.5	102	69	22	37	42.5	270	161	96	115	77	41	7.5	9.6	110	7	19	700
GN 820.1-455-*	455	3200	65	70	18	10	12.4	M 12	8.5	119	80.5	26	43	48	309	186	116	135	100	41.5	11	12.5	128	10	33	1200

GN 820.1-NI

STAINLESS STEEL

Description	Size	FH in N	a ≈	b1	b2	b3	b4	d1	d2	h1 ≈	h2	h3	h4	h5 max.	l1 ≈	l2 ≈	l3 ≈	l4 max.	l5	m1	m2	m3	r ≈	s	w	⚖
GN 820.1-75-*-NI	75	900	20	28	8	4	5.5	M 5	4.5	45.5	27.5	11	19	12.5	118	68	40	49.5	45	13.5	3.5	5	43	4	15	90
GN 820.1-130-*-NI	130	1000	32	36	10	5	6.5	M 6	5.5	64	44	16	25.5	27.5	170	92	53	64	55	26	5.8	8.8	62	5	17.5	200
GN 820.1-230-*-NI	230	1700	37	44	12	6	8.5	M 8	6.5	75	50	18	30	26	196	109	63.5	78	68	26	6.5	9	73	6	20	330

Weight type N

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GN 820.3

Horizontal acting toggle clamps

Steel / Stainless Steel, with safety hook, with horizontal mounting base

SPECIFICATION

Types

- Type **ML**: U-bar version, with two flanged washers
- Type **MLC**: U-bar version, with two flanged washers and GN 708.1 spindle assembly (see page 1625)
- Type **OL**: Solid bar version, with clasp

Version in Steel

- Case-hardened Steel C10, zinc plated, blue passivated
- Bearing pins tempered
- Bearing rivets (for size 355 and up), case-hardened

All moving parts
lubricated with special grease

Hand grip
High quality, oil resistant red plastic

Spindle assembly GN 708.1 , Type A (see page 1625)

- Steel, zinc plated
- Rubber tip 85 Shore A

Version in Stainless Steel NI

Stainless Steel AISI 304

All moving parts
lubricated with special grease

Hand grip
High quality, oil resistant red plastic

Spindle assembly GN 708.1 , Type A (see page 1625)

- Stainless Steel AISI 304
- Rubber tip 85 Shore A

TECHNICAL INFORMATION

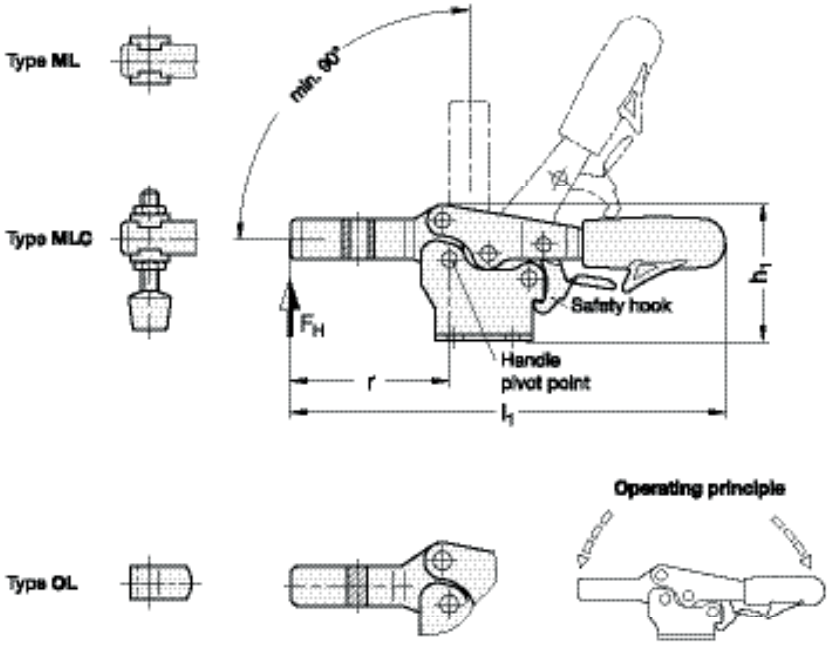
- Stainless Steel characteristics (see page A26)

ACCESSORY

- Spindle assemblies (see page 1623)
- GN 801 clamp mounts for toggle clamps (for Type ML) (see page 1629)
- GN 809 clamp mounts for toggle clamps (for Type OL)

INFORMATION

GN 820.3 horizontal acting toggle clamps have a safety function whereby, during closing, a spring loaded safety hook latch ensures a secure locking connection. It prevents the inadvertent unlocking of the clamp due to vibrations or an accidental attempt of loosening / opening of the clamp. To open and release the clamp, pull up on the finger grip to disengage the safety hook latch mechanism (one hand operation).
They work according to the toggle principle: lever and clamping bar move in the opposite direction. They require less space for the clamping action.
Horizontal acting toggle clamps in the U-bar version with two flanged washers (Type ML) can accommodate an application specific clamping screw. A spindle assembly with neoprene rubber tip is also included for Type MLC.
Type OL version can either be utilized by welding the clasp which can then accommodate an application specific hold-down fastener component, or by utilizing the bar in conjunction with the GN 809 clamp mounts to hold the work piece in place.
nation for toggle clamps (see page 1560)



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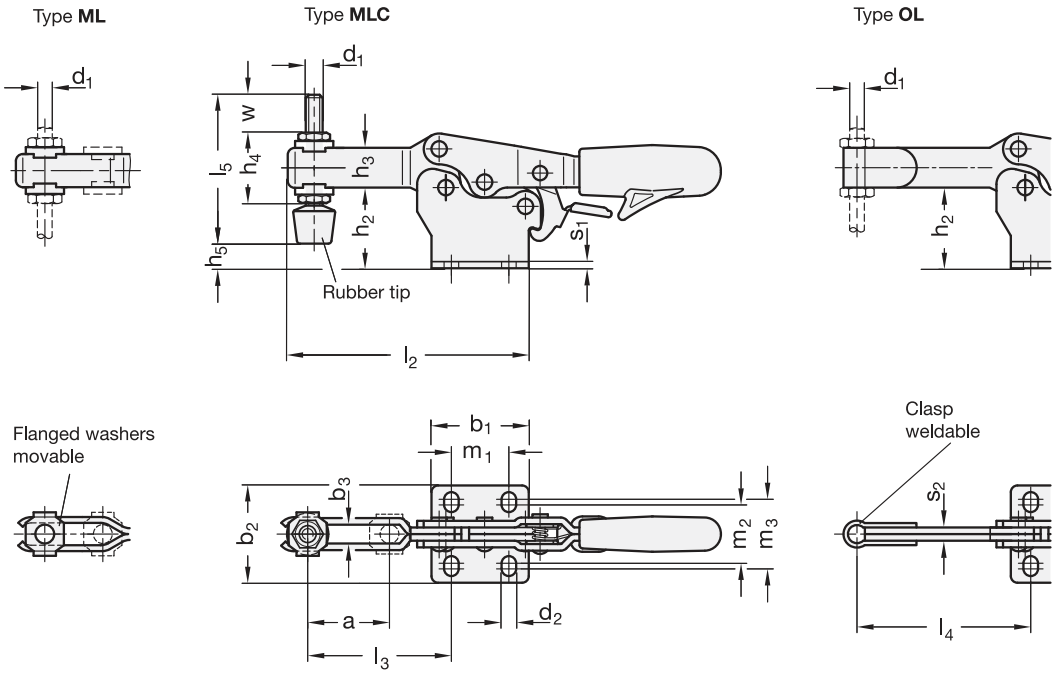
GN 820.3 | Horizontal acting toggle clamps



*Complete with type index of the horizontal acting toggle clamps

ML **MLC** **OL**

GN 820.3

Description	Size	FH in N	a ≈	b1	b2	b3	d1	d2	h1 ≈	h2	h3	h4	h5 max.	l1 ≈	l2 ≈	l3 ≈	l4 max.	l5	m1	m2	m3	r	s1	s2	w	⚖
GN 820.3-75-*	75	900	20	28	26	5.3	M 5	4.5	37	20	11	19	5	118	67	40	49.5	45	13.5	16	19	43	2	4	15	100
GN 820.3-130-*	130	1000	32	36	40	6.3	M 6	5.6	51	30.5	16	25.5	14	172	92	53	64	55	26	22.4	28.4	62	2.5	5	17.5	200
GN 820.3-230-*	230	1700	37	44	44	8.5	M 8	6.6	61.5	36.5	18	30	12.5	196	109	63.5	78	68	26	26	31.5	72	3	6	20	320
GN 820.3-355-*	355	1800	58	60	58	10.5	M 10	8.6	83	50	22	37	23.5	270	160	96	115	77	41	38.8	43	108.5	3.5	7	19	730
GN 820.3-455-*	455	3200	65	70	65	12.5	M 12	8.7	99	60	26	43	27.5	306	184	116	135	100	41.5	40	43	126	4	10	33	1200

GN 820.3-NI

STAINLESS STEEL

Description	Size	FH in N	a ≈	b1	b2	b3	d1	d2	h1 ≈	h2	h3	h4	h5 max.	l1 ≈	l2 ≈	l3 ≈	l4 max.	l5	m1	m2	m3	r	s1	s2	w	⚖
GN 820.3-75-*-NI	75	900	20	28	26	5.3	M 5	4.5	37	20	11	19	5	118	67	40	49.5	45	13.5	16	19	43	2	4	15	90
GN 820.3-130-*-NI	130	1000	32	36	40	6.3	M 6	5.6	51	30.5	16	25.5	14	172	92	53	64	55	26	22.4	28.4	62	2.5	5	17.5	200
GN 820.3-230-*-NI	230	1700	37	44	44	8.5	M 8	6.6	61.5	36.5	18	30	12.5	196	109	63.5	78	68	26	26	31.5	72	3	6	20	320

Weight type ML

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Horizontal acting toggle clamps

Steel / Stainless Steel, with safety hook, with vertical mounting base

SPECIFICATION

Types

- Type **NL**: U-bar version, with two flanged washers
- Type **NLC**: U-bar version, with two flanged washers and GN 708.1 spindle assembly (see page 1625)
- Type **PL**: Solid bar version, with clasp

Version in Steel

- Case-hardened Steel C10, zinc plated, blue passivated
- Bearing pins tempered
- Bearing rivets (for size 355 and up), case-hardened

All moving parts
lubricated with special grease

Hand grip
High quality, oil resistant red plastic

Spindle assembly GN 708.1 , Type A (see page 1625)

- Steel, zinc plated
- Rubber tip 85 Shore A

Version in Stainless Steel NI

Stainless Steel AISI 304

All moving parts
lubricated with special grease

Hand grip
High quality, oil resistant red plastic

Spindle assembly GN 708.1 , Type A (see page 1625)

- Stainless Steel AISI 304
- Rubber tip 85 Shore A

TECHNICAL INFORMATION

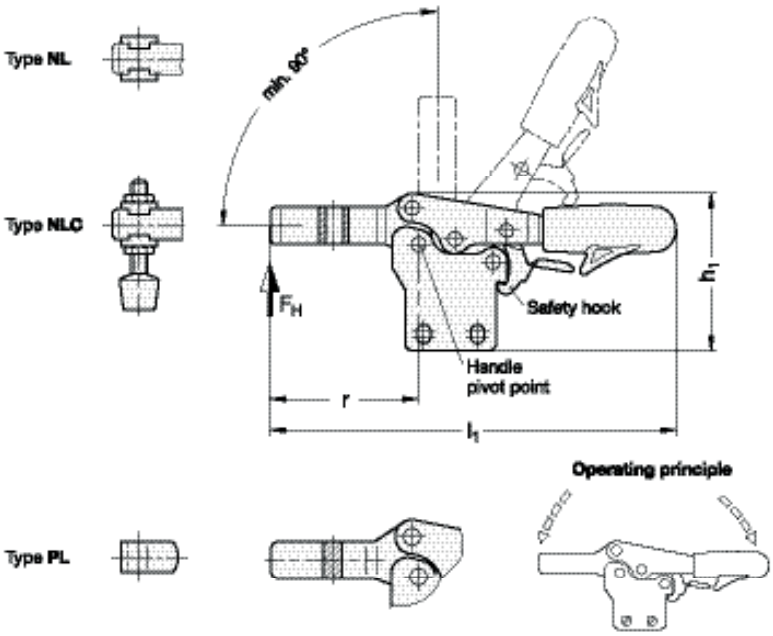
- Stainless Steel characteristics (see page A26)

ACCESSORY

- Spindle assemblies (see page 1623)
- GN 801 clamp mounts for toggle clamps (for Type NL) (see page 1629)
- GN 809 clamp mounts for toggle clamps (for Type PL)

INFORMATION

GN 820.4 horizontal acting toggle clamps have a safety function whereby, during closing, a spring loaded safety hook latch ensures a secure locking connection. It prevents the inadvertent unlocking of the clamp due to vibrations or an accidental attempt of loosening / opening of the clamp. To open and release the clamp, pull up on the finger grip to disengage the safety hook latch mechanism (one hand operation).
They work according to the toggle principle: lever and clamping bar move in the opposite direction. They require less space for the clamping action.
Horizontal acting toggle clamps in the U-bar version with two flanged washers (Type NL) can accommodate an application specific clamping screw. A spindle assembly with neoprene rubber tip is also included for Type NLC.
Type PL version can either be utilized by welding the clasp which can then accommodate an application specific hold-down fastener component, or by utilizing the bar in conjunction with the GN 809 1630) clamp mounts to hold the work piece in place.
information for toggle clamps (see page 1560)



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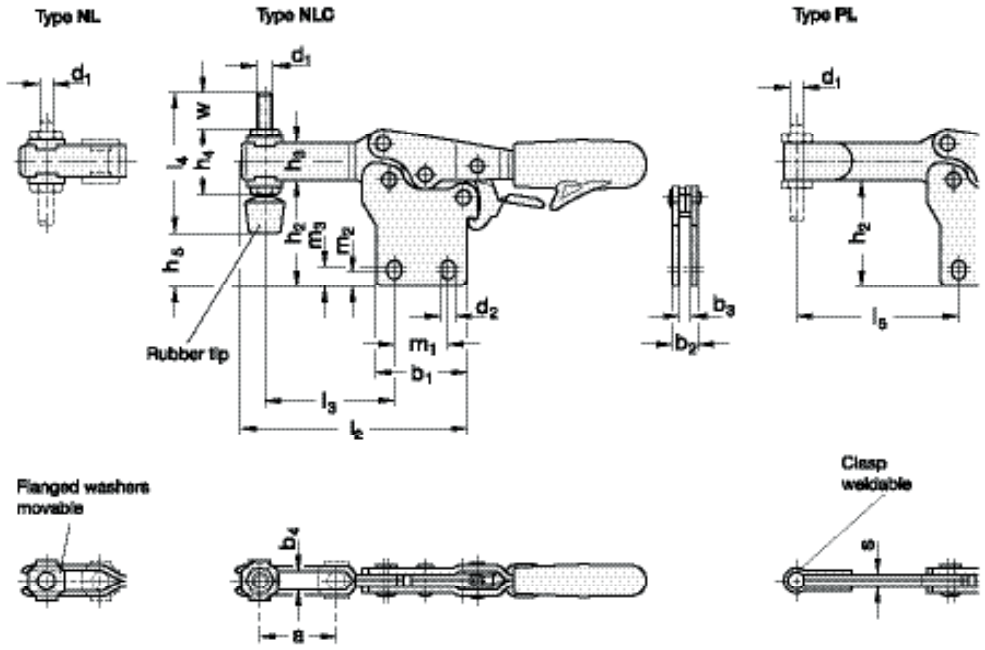

*Complete with type index of the horizontal acting toggle clamps

NL NLC PL

GN 820.4

Description	Size	FH in N	a ≈	b1	b2	b3	b4	d1	d2	h1 ≈	h2	h3	h4	h5 max.	l1 ≈	l2 ≈	l3 ≈	l4 max.	l5	m1	m2	m3	r ≈	s	w	⚖
GN 820.4-75-*	75	900	20	28	8	4	5.3	M 5	4.5	45.5	29	11	19	14	118	68	40	49.5	45	13.5	3.5	5	43	4	15	90
GN 820.4-130-*	130	1000	32	36	10	5	6.3	M 6	5.6	64.5	44	16	25.5	27.5	172	92	53	64	55	26	5.8	8.8	62	5	17.5	200
GN 820.4-230-*	230	1700	37	44	12	6	8.5	M 8	6.6	75.5	51	18	30	27	196	109	63.5	78	68	26	6.5	9	73	6	20	320
GN 820.4-355-*	355	1800	58	60	14	7	10.5	M 10	8.6	102	69.5	22	37	43	270	161	96	115	77	41	7.5	9.6	110	7	19	730
GN 820.4-455-*	455	3200	65	70	18	10	12.5	M 12	8.7	120	80.5	26	43	48	306	186	116	135	100	41.5	11	12.5	128	10	33	1200

GN 820.4-NI

STAINLESS STEEL

Description	Size	FH in N	a ≈	b1	b2	b3	b4	d1	d2	h1 ≈	h2	h3	h4	h5 max.	l1 ≈	l2 ≈	l3 ≈	l4 max.	l5	m1	m2	m3	r ≈	s	w	⚖
GN 820.4-75-*-NI	75	900	20	28	8	4	5.3	M 5	4.5	45.5	29	11	19	14	118	68	40	49.5	45	13.5	3.5	5	43	4	15	90
GN 820.4-130-*-NI	130	100	32	36	10	5	6.3	M 6	5.6	64.5	44	16	25.5	27.5	172	92	53	64	55	26	5.8	8.8	62	5	17.5	200
GN 820.4-230-*-NI	230	1700	37	44	12	6	8.5	M 8	6.6	75.5	51	18	30	27	196	109	63.5	78	68	26	6.5	9	73	6	20	320

Weight type NL

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Horizontal acting toggle clamps

Steel / Stainless Steel, with vertical mounting base

SPECIFICATION

Types

- Type **MF**: U-bar version, with two flanged washers
- Type **MFC**: U-bar version, with two flanged washers and GN 708.1 spindle assembly (see page 1625)

Version in Steel

- Case-hardened Steel C10, zinc plated, blue passivated
- Bearing pins tempered
- Bearing rivets (for size 355 and up), case-hardened

All moving parts
lubricated with special grease

Hand grip
High quality, oil resistant red plastic

Spindle assembly GN 708.1 , Type A (see page 1625)

- Steel, zinc plated
- Rubber tip 85 Shore A

Version in Stainless Steel NI

Stainless Steel AISI 304

All moving parts
lubricated with special grease

Hand grip
High quality, oil resistant red plastic

Spindle assembly GN 708.1 , Type A (see page 1625)

- Stainless Steel AISI 304
- Rubber tip 85 Shore A

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)

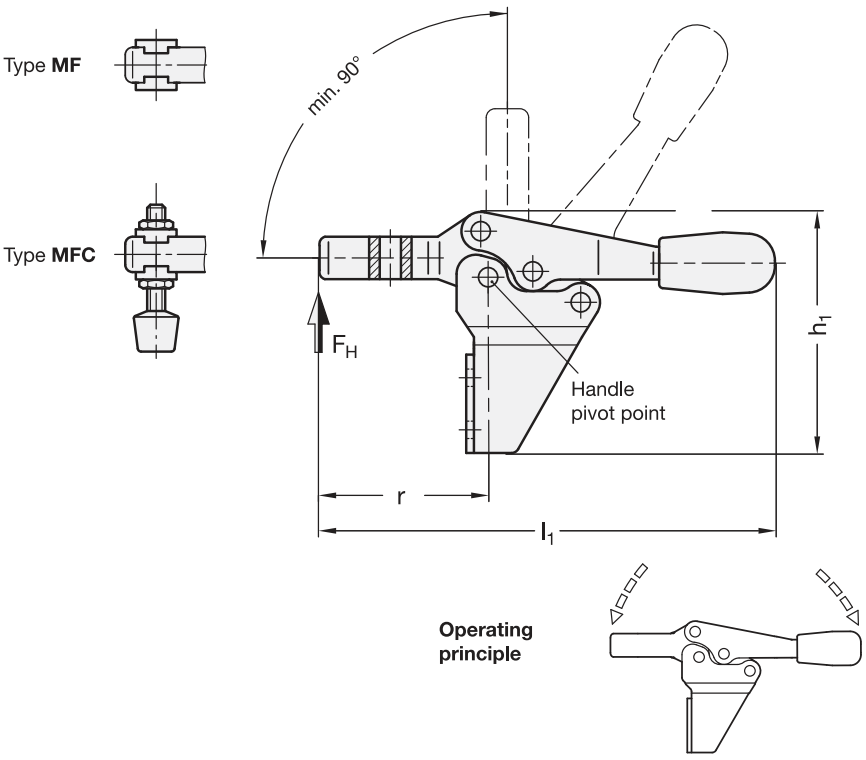
ACCESSORY

- Spindle assemblies (see page 1623)
- GN 801 clamp mounts for toggle clamps (for Type MF) (see page 1629)

INFORMATION

GN 820.2 horizontal acting toggle clamps work according to the toggle principle: lever and clamping bar move in the opposite direction.
They require less space for the clamping action. In the clamped position the operating lever is in its horizontal position. The 90° rotated mounting surface allows a space-saving installation in addition to the clamping point.
Horizontal acting toggle clamps in the U-bar version with two flanged washers (Type MF) can accommodate an application specific clamping screw. A spindle assembly with neoprene rubber tip is also included for Type MFC.

- General information for toggle clamps (see page 1560)



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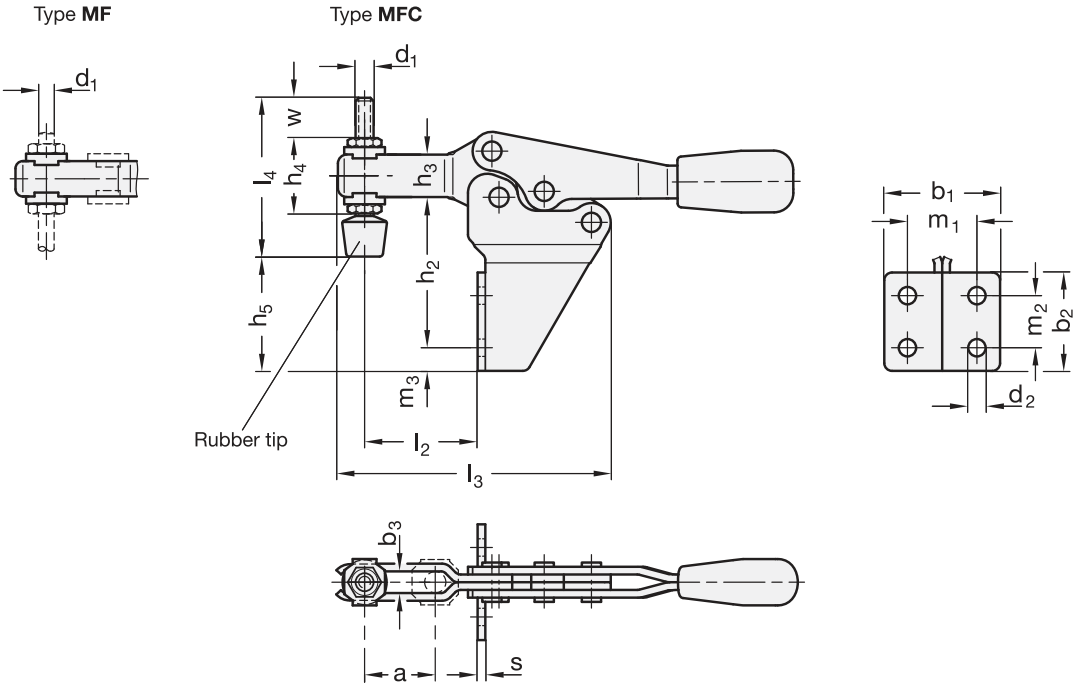
GN 820.2 | Horizontal acting toggle clamps



*Complete with type index of the horizontal acting toggle clamps

MF MFC

GN 820.2

Description	Size	FH in N	a ≈	b1	b2	b3	d1	d2	h1	h2	h3	h4	h5 max.	l1	l2	l3	l4	m1	m2	m3	r	s	w	⚖
GN 820.2-75-*	75	900	20	30	25.5	5.5	M 5	4.5	62	39	11	19	30	118	30	72	45	18	13.5	6	42.5	2	15	105
GN 820.2-130-*	130	1000	32	39	35	6.5	M 6	5.5	85	58.5	16	25.5	48.5	170	45	95	55	26	22	6.5	61	2.5	17.5	240
GN 820.2-230-*	230	1700	37	43	40	8.5	M 8	6.5	102	69	18	30	53	195	52	113	68	28.5	24	8	70	3	20	400
GN 820.2-355-*	355	1800	58	52	52	10.5	M 10	8.5	135	92	22	37	75.5	270	85	166	77	32	32	10	108.5	3.5	19	840

GN 820.2-NI

STAINLESS STEEL

Description	Size	FH in N	a ≈	b1	b2	b3	d1	d2	h1	h2	h3	h4	h5 max.	l1	l2	l3	l4	m1	m2	m3	r	s	w	⚖
GN 820.2-75-*-NI	75	900	20	30	25.5	5.5	M 5	4.5	62	39	11	19	30	118	30	72	45	18	13.5	6	42.5	2	15	105
GN 820.2-130-*-NI	130	1000	32	39	35	6.5	M 6	5.5	85	58.5	16	25.5	48.5	170	45	95	55	26	22	6.5	61	2.5	17.5	240
GN 820.2-230-*-NI	230	1700	37	43	40	8.5	M 8	6.5	102	69	18	30	53	195	52	113	68	28.5	24	8	70	3	20	400

Weight type MF

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Push-pull type toggle clamps

for push-pull clamping

SPECIFICATION

Types

- Type **ASD**: Clamping by turning handle counter-clockwise
- Type **ASS**: Clamping by turning handle clockwise

Parts in sheet metal
Case-hardened Steel C10
zinc plated, blue passivated

Plunger
Steel St 37
zinc plated, blue passivated

Plunger guide bushing
Steel St 37
zinc plated, blue passivated

All moving parts
lubricated with special grease

Hand grip
High quality, oil resistant red plastic

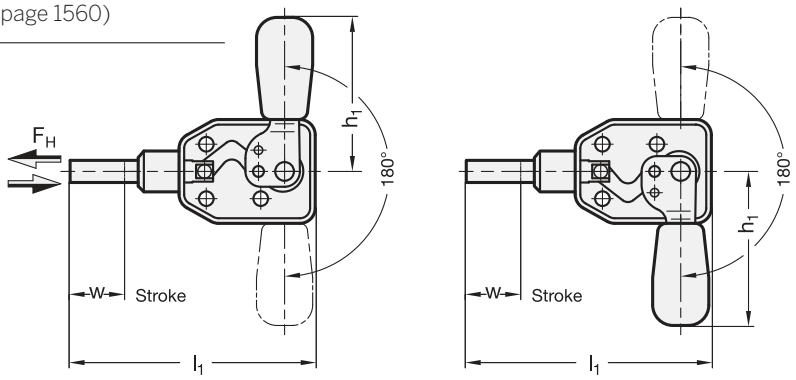
INFORMATION

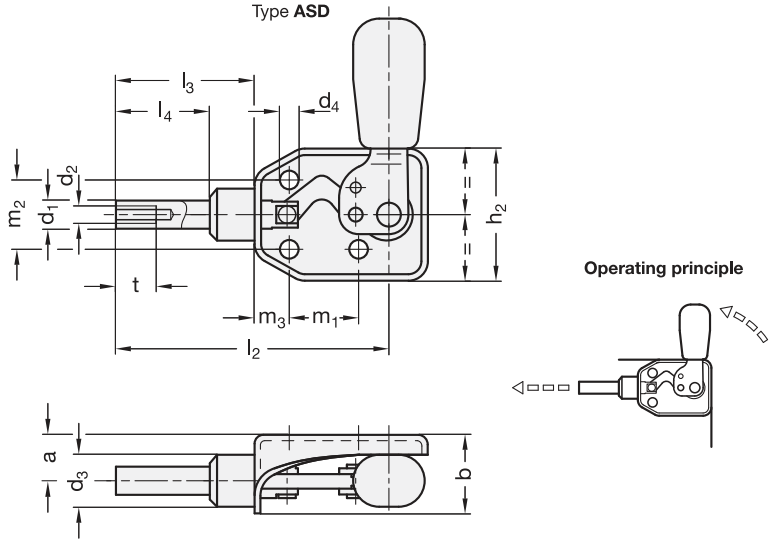
GN 840 push-pull type toggle clamps are known for their extremely low height regardless of the position of the operating handle.

- General information for toggle clamps (see page 1560)

ACCESSORY

- Spindle assemblies (see page 1623)





Type **ASS** is mirror image of type ASD

GN 840

Description	Size	F_H in N	a	b	d_1	d_2	d_3	d_4	h_1 ≈	h_2	l_1 ≈	l_2 ≈	l_3 ≈	l_4 ≈	m_1	m_2	m_3	t min.	w	⚖
GN 840-50-ASD	50	800	10	17.5	6.5	M 4	12	4.3	45.2	30.5	73	64.5	33	21	16	16	8	9	16	60
GN 840-50-ASS	50	800	10	17.5	6.5	M 4	12	4.3	45.2	30.5	73	64.5	33	21	16	16	8	9	16	60

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GN 844

Heavy duty push-pull type toggle clamps

for push-pull clamping

SPECIFICATION

Types

- Type **ASD**: Clamping by turning handle counter-clockwise
- Type **ASS**: Clamping by turning handle clockwise

Body
Brass: size 70
Steel: from size 160

- forged
- black lacquered

Parts in sheet metal
Case-hardened Steel C10
zinc plated, blue passivated

Plunger
Steel St 37
zinc plated, blue passivated

All moving parts
lubricated with special grease

Hand grip
High quality, oil resistant red plastic

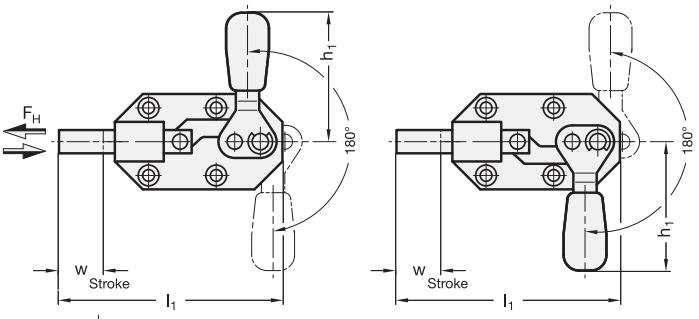
INFORMATION

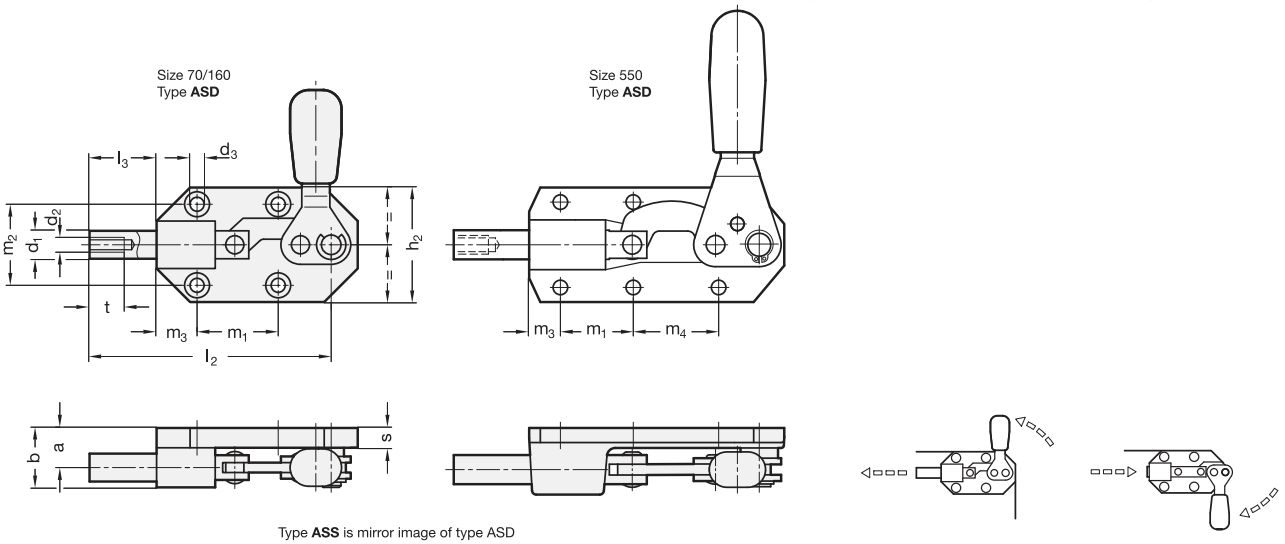
GN 844 heavy duty push-pull type toggle clamps are known for their low height in all clamping positions. They can be used for very high holding forces thanks to their massive and sturdy body.

- General information for toggle clamps (see page 1560)

ACCESSORY

- Spindle assemblies (see page 1623)





Type **ASS** is mirror image of type ASD

GN 844

Description	Size	F_H in N	a	b	d_1	d_2	d_3	h_1 ≈	h_2	l_1 ≈	l_2 ≈	l_3 ≈	m_1	m_2	m_3	m_4	s	t	w	⚖
GN 844-70-ASD	70	900	12	19.5	8.5	M 6	4.3	49	36	86	77	22	26	26	13	-	6	12	20	162
GN 844-160-ASD	160	1300	15	25	11	M 6	5.5	79	46	117	107	32	36.5	33.5	11.5	-	7	12	30	320
GN 844-550-ASD	550	4500	20	32	14	M 8	7	113	55	165	153	42	35	41	15	41	7	16	42	700
GN 844-70-ASS	70	900	12	19.5	8.5	M 6	4.3	49	36	86	77	22	26	26	13	-	6	12	20	160
GN 844-160-ASS	160	1300	15	25	11	M 6	5.5	79	46	117	107	32	36.5	33.5	11.5	-	7	12	30	350
GN 844-550-ASS	550	4500	20	32	14	M 8	7	113	55	165	153	42	35	41	15	41	7	16	42	700

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Push-pull type toggle clamps

for push-on clamping

SPECIFICATION

Type

- Type **AS**: Sheet metal body

Parts in sheet metal
Case-hardened Steel C10
zinc plated, blue passivated

Plunger
Steel St 37
zinc plated, blue passivated

Plunger guide bushing
Brass
zinc plated, blue passivated

All moving parts
lubricated with special grease

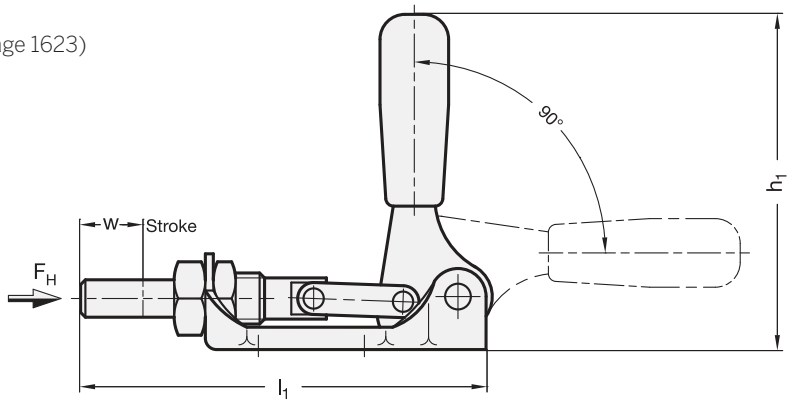
Hand grip
High quality, oil resistant red plastic

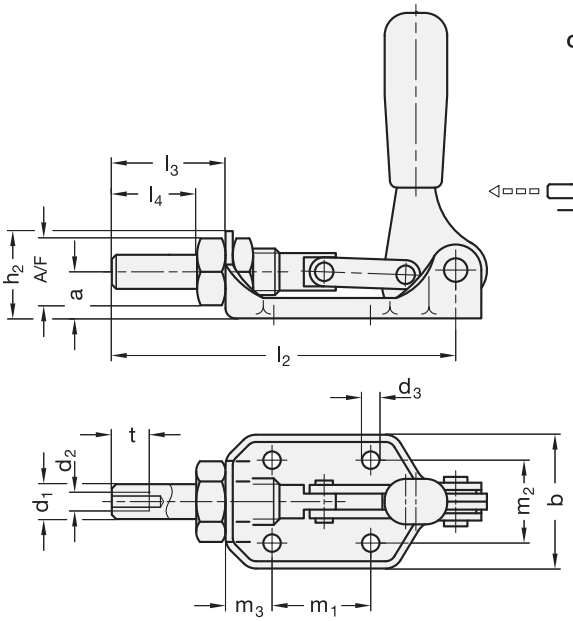
INFORMATION

- General information for toggle clamps (see page 1560)

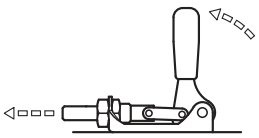
ACCESSORY

- Spindle assemblies (see page 1623)





Operating principle



GN 841

Description	Size	F_H in N	a	b	d_1	d_2	d_3	h_1 ≈	h_2	l_1 ≈	l_2 ≈	l_3 ≈	l_4 ≈	m_1	m_2	m_3	A/F	t	w	⚖
GN 841-120-AS	120	3600	17	48	12	M 6	5.5	111	31	130	121	40	30	34	30	17	24	12	20	338
GN 841-300-AS	300	7200	20	58	14	M 8	6.5	140	36	167	155	57	45	50	34	18	27	16	34	590

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GN 842

Heavy duty push-pull type toggle clamps

for push-pull clamping

SPECIFICATION

Type

- Type **AS**: Steel or brass base, forged

Body
Brass: Size 70
Steel: Size 160 to 3100

- forged
- black lacquered

Parts in sheet metal
Case-hardened Steel C10
zinc plated, blue passivated

Plunger
Steel St 37
zinc plated, blue passivated

Bearing pins (rivets)
case-hardened

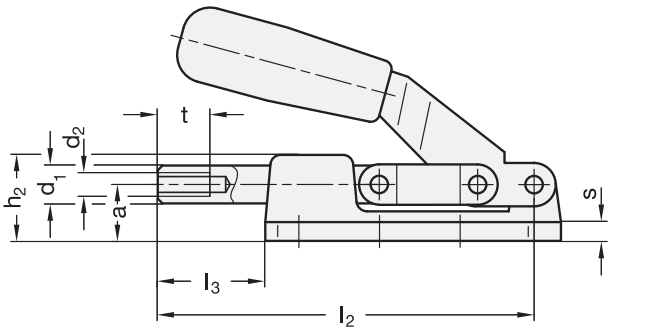
INFORMATION

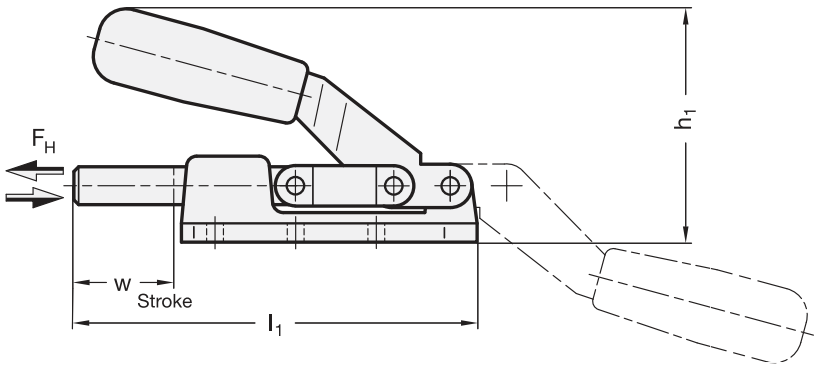
GN 842 heavy duty push-pull type toggle clamps can be used for very high holding capacities thanks to their massive and sturdy body.
On the size 70, the mounting holes are provided with cylindrical countersinks for the use of hexagon socket head screws DIN 912-M4.

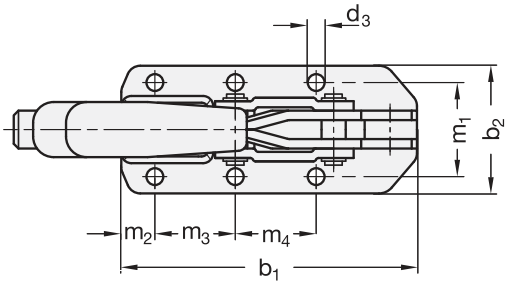
- General information for toggle clamps (see page 1560)

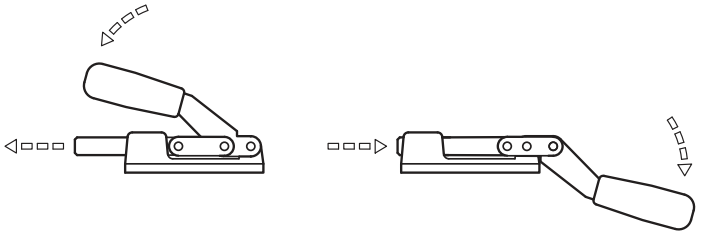
ACCESSORY

- Spindle assemblies (see page 1623)









GN 842

Description	Size	FH in N	a	b1	b2	d1	d2	d3	h1 ≈	h2 ≈	l1	l2 ≈	l3	m1	m2	m3	m4	s	t	w	⚖
GN 842-70-AS	70	1200	12	64	36	8.5	M 6	4.3	42.5	19.5	86	79	22	26	13	26	-	6	12	20	180
GN 842-160-AS	160	2800	15	85	46	11	M 6	5.3	59	25	116	107	31	33.5	11.5	36.5	-	7	12	30	300
GN 842-360-AS	360	5600	25	90	45.5	12	M 8	5.5	75	34.5	122	114	32	33.5	30	36.5	-	7	15	32	450
GN 842-550-AS	550	8000	18	122.5	55	14	M 8	7	82.5	29.5	164.5	154.5	42	41	15	35	41	6	16	42	720
GN 842-1100-AS	1100	16000	25	133	57	16	M 10	8.5	95	38	182	170.5	49	41	15	35	41	8	18	50	1090
GN 842-2100-AS	2100	25000	35	177	70	20	M 12	8.5	118.5	50	238	222	61	50	35	50	50	10	22	60	2200
GN 842-3100-AS	3100	45000	40	216	76	22	M 14	11	137	56	316	300	100	54	40	70	70	10	25	100	3100

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Push-pull type toggle clamps

Steel / Stainless Steel, for push-pull clamping

SPECIFICATION

Types

- Type **AS**: without mounting bracket
- Type **ASW**: with mounting bracket

Version in Steel

Parts in sheet metal
Case-hardened Steel C10
zinc plated, blue passivated

All moving parts
lubricated with special grease

Hand grip
High quality, oil resistant red plastic

Version in Stainless Steel NI

- Parts in sheet metal AISI 304
- other parts AISI 303

All moving parts
lubricated with special grease

Hand grip
High quality, oil resistant red plastic

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)

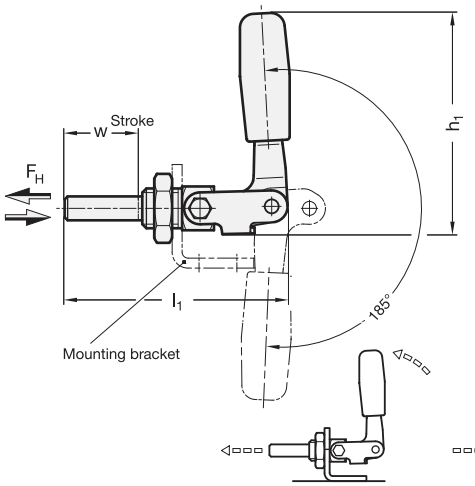
ACCESSORY

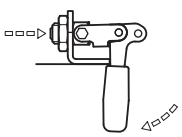
- Spindle assemblies (see page 1623)

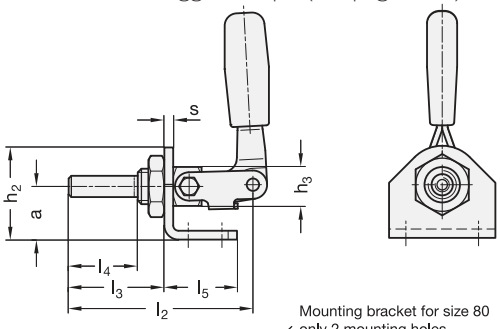
INFORMATION

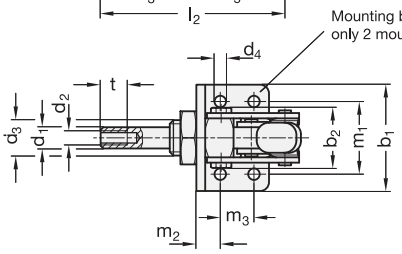
GN 843.1 push-pull type toggle clamps can be mounted on a mounting bracket (Type ASW) or directly on the jig.
The center bushing securing method allows the operating handle to be turned to the most favorable position.
GN 843.1 push-pull type toggle clamps replace series GN 843.

- General information for toggle clamps (see page 1560)









*Complete with type index of the push-pull type toggle clamps

AS
without mounting bracket

ASW
with mounting bracket

GN 843.1

Description	Size	FH in N	a	b1	b2	d1	d2	d3	d4	h1 ≈	h2	h3	l1 ≈	l2 ≈	l3 ≈	l4 ≈	l5	m1	m2	m3	s	t	w	⚖
GN 843.1-80-*	80	3000	24	35	29	10	M 6	M 16 x 1.5	5.5	70.5	38.5	19	71	65	34	22	22	20	12	-	4	12	21	133
GN 843.1-165-*	165	5400	32	60	35	12	M 8	M 20 x 1.5	6.5	110	50	22	112	104	54	39	41	41	13.5	19	5	15	38	332
GN 843.1-340-*	340	7000	48	75	47.6	16	M 10	M 24 x 2	8.5	146	70	30	173	162	85	68	59	55	19	25	5	18	66	830

GN 843.1-NI

STAINLESS STEEL

Description	Size	FH in N	a	b1	b2	d1	d2	d3	d4	h1 ≈	h2	h3	l1 ≈	l2 ≈	l3 ≈	l4 ≈	l5	m1	m2	m3	s	t	w	⚖
GN 843.1-80-*-NI	80	3000	24	35	29	10	M 6	M 16 x 1.5	5.5	70.5	38.5	19	71	65	34	22	22	20	12	-	4	12	21	136
GN 843.1-165-*-NI	165	5400	32	60	35	12	M 8	M 20 x 1.5	6.5	110	50	22	112	104	54	39	41	41	13.5	19	5	15	38	333
GN 843.1-340-*-NI	340	7000	48	75	47.6	16	M 10	M 24 x 2	8.5	146	70	30	173	162	85	68	59	55	19	25	5	18	66	820

Weight type AS

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GN 850

Hook type toggle clamps

for pulling action

SPECIFICATION

Types

- Type **T**: with draw axle
- Type **TF**: with draw hook

Parts in sheet metal
Case-hardened Steel C10
zinc plated, blue passivated

Draw hook
Steel St 37
zinc plated, blue passivated

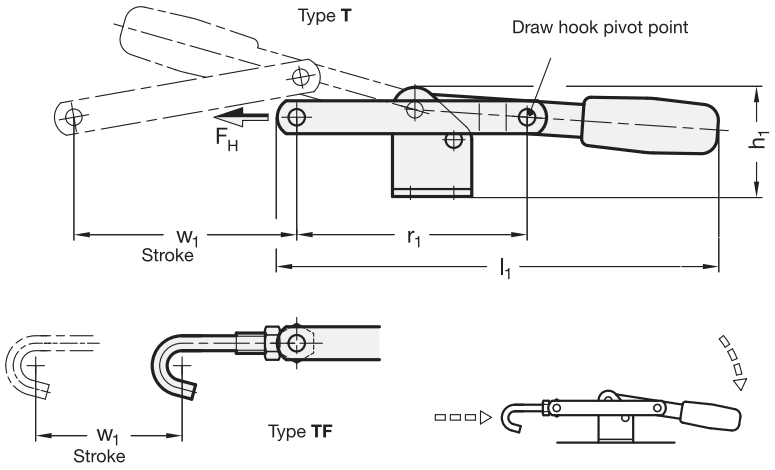
All moving parts
lubricated with special grease

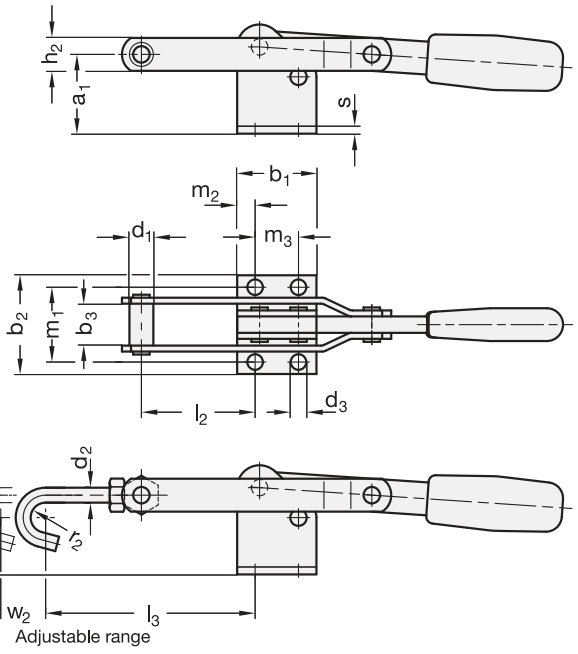
Hand grip
High quality, oil resistant red plastic

INFORMATION

The draw hook of the GN 850 hook type toggle clamps can be adjusted within the stroke.

- General information for toggle clamps (see page 1560)





GN 850

Description	Size	F_H in N	a_1	a_2	b_1	b_2	b_3	d_1	d_2	d_3	h_1 ≈	h_2	l_1 ≈	l_2 ≈	l_3 ≈	m_1	m_2	m_3	r_1 ≈	r_2	s	w_1	w_2 ≈	⚖
GN 850-200-T	200	2000	37	-	35	45	18	10	-	6.5	49	16	202	51	-	32	8	19	102	-	3	100	-	300
GN 850-300-T	300	3000	35	-	48	60	21	10	-	8.5	49	18	225	51	-	45	8	32	105	-	3	104	-	460
GN 850-400-T	400	4000	43	-	54	84	26	14	-	10.5	60.5	25	278	58	-	60	12.5	28.5	138	-	5	160	-	1000
GN 850-200-TF	200	2000	37	29	35	45	18	10	8	6.5	49	16	202	51	93	32	8	19	102	5	3	100	20	370
GN 850-300-TF	300	3000	35	25	48	60	21	10	10	8.5	49	18	225	51	98	45	8	32	105	6	3	104	20	560
GN 850-400-TF	400	4000	43	30	54	84	26	14	12	10.5	60.5	25	278	58	117.5	60	12.5	28.5	138	7	5	160	20	1200

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Horizontal latch type toggle clamps

Steel / Stainless Steel, for pulling action

SPECIFICATION

Types

- Type **T2**: with U-bolt latch, with catch
- Type **T**: without U-bolt latch, with catch

Version in Steel

Case-hardened Steel C10
zinc plated, blue passivated

U-bolt latch
Steel St 37
zinc plated, blue passivated

All moving parts
lubricated with special grease

Handle with plastic sleeve
red, oil resistant

Version in Stainless Steel NI

Parts in sheet metal / U-bolt latch
Stainless Steel AISI 304

Pin
Stainless Steel AISI 303

All moving parts
lubricated with special grease

Handle with plastic sleeve
red, oil resistant

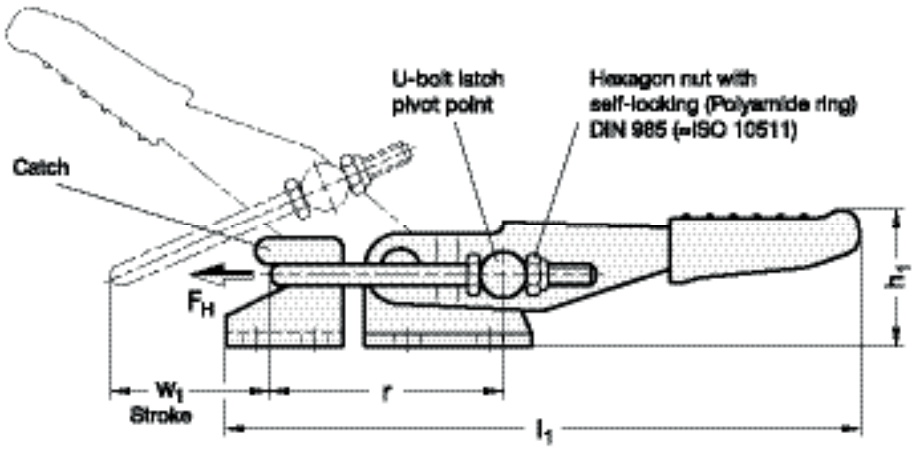
INFORMATION

The stroke of the U-bolt latch of GN 851 latch type toggle clamps can be adjusted within its range.
In the clamped position the U-bolt latch with clamping arm is parallel to the plane of the operating handle.
In addition to the standard lengths of the U-bolt latches shown in the table, a variety of other lengths are also available under the GN 951.1 series (see page 1604).

- General information for toggle clamps (see page 1560)

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)



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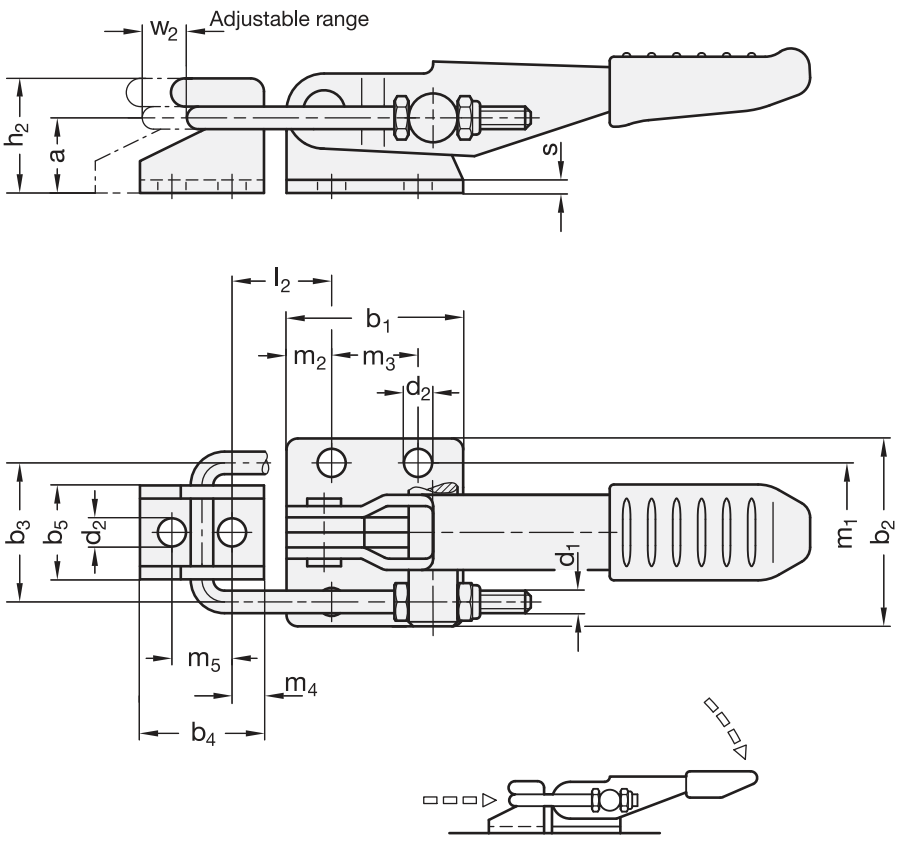
GN 851

Horizontal latch type toggle clamps



GN 851

Description	Size	FH in N	a	b1	b2	b3	b4	b5	d1	d2	h1 ≈	h2	l1 ≈	l2 min.	m1	m2	m3	m4	m5	r ≈	s	w1	w2 ≈	⚖
GN 851-160-T	160	1600	-	26	28	-	20	14	-	4.3	26	18	-	-	19	5	16	5	10	-	2	-	-	72
GN 851-320-T	320	3200	-	40	44	-	28	22	-	6.5	30	25	-	-	32	10.5	19	7	14.3	-	3	-	-	225
GN 851-700-T	700	7000	-	60	54	-	38	26	-	8.5	42	36	-	-	38	9.5	41.5	9.5	19	-	3.5	-	-	534
GN 851-160-T2	160	1600	12	26	28	21	20	14	M 4	4.3	26	18	98	11	19	5	16	5	10	35	2	25	11	80
GN 851-320-T2	320	3200	16	40	44	32	28	22	M 6	6.5	30	25	152	19	32	10.5	19	7	14.3	57	3	48	10	260
GN 851-700-T2	700	7000	24	60	54	38	38	26	M 8	8.5	42	36	220	21	38	9.5	41.5	9.5	19	74	3.5	58	22	620

GN 851-NI

STAINLESS STEEL

Description	Size	FH in N	a	b1	b2	b3	b4	b5	d1	d2	h1 ≈	h2	l1 ≈	l2 min.	m1	m2	m3	m4	m5	r ≈	s	w1	w2 ≈	⚖
GN 851-160-T-NI	160	1600	-	26	28	-	20	14	-	4.3	26	18	-	-	19	5	16	5	10	-	2	-	-	71
GN 851-320-T-NI	320	3200	-	40	44	-	28	22	-	6.5	30	25	-	-	32	10.5	19	7	14.3	-	3	-	-	223
GN 851-700-T-NI	700	7000	-	60	54	-	38	26	-	8.5	42	37	-	-	38	9.5	41.5	9.5	19	-	3.5	-	-	515
GN 851-160-T2-NI	160	1600	12	26	28	21	20	14	M 4	4.3	26	18	98	11	19	5	16	5	10	35	2	25	11	85
GN 851-320-T2-NI	320	3200	16	40	44	32	28	22	M 6	6.5	30	25	152	19	32	10.5	19	7	14.3	57	3	48	10	260
GN 851-700-T2-NI	700	7000	24	60	54	38	38	26	M 8	8.5	42	37	220	21	38	9.5	41.5	9.5	19	74	3.5	58	22	600

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Horizontal latch type toggle clamps

Steel / Stainless Steel, with safety hook, with pulling action

SPECIFICATION

Types

- Type **T6**: with U-bolt latch, with catch
- Type **T**: without U-bolt latch, with catch

Version in Steel

Case-hardened Steel C10
zinc plated, blue passivated

U-bolt latch
Steel St 37
zinc plated, blue passivated

All moving parts
lubricated with special grease

Handle with plastic sleeve
red, oil resistant

Version in Stainless Steel A4

Sheet metal parts / U-bolt latch / Pin
Stainless Steel AISI 316L

All moving parts
lubricated with special grease

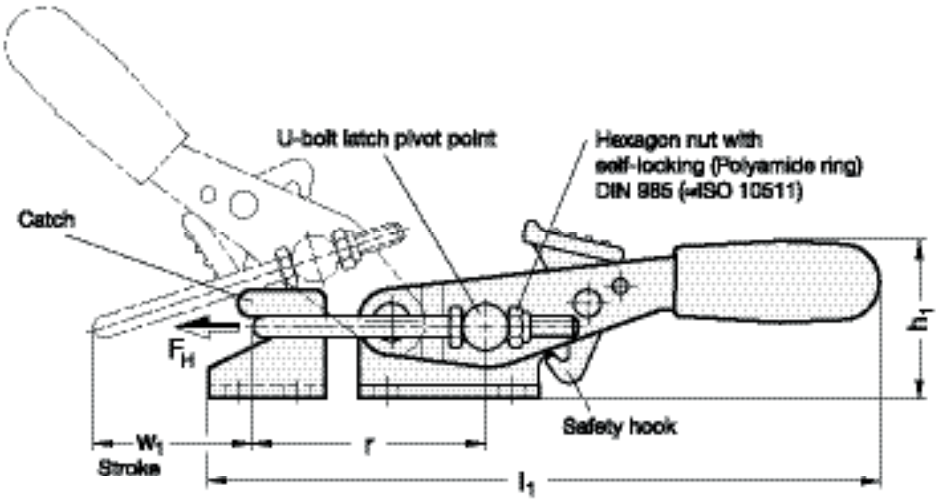
Handle with plastic sleeve
red, oil resistant

INFORMATION

GN 851.3 horizontal latch type toggle clamps are compact in design and can be used to ensure high holding capacities.
When closing the spanner, a safety hook positively locks onto the body. This prevents the inadvertent or vibration-induced release from the clamping position. To open the safety hook it is unlocked per one-hand operation.
The stroke of the U-bolt latch can be adjusted within its range.
In addition to the standard lengths for the U-bolt latch shown above, more lengths may be achieved by using series GN 951.1 square U-bolts (see page 1604).
- General information for toggle clamps (see page 1560)

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)



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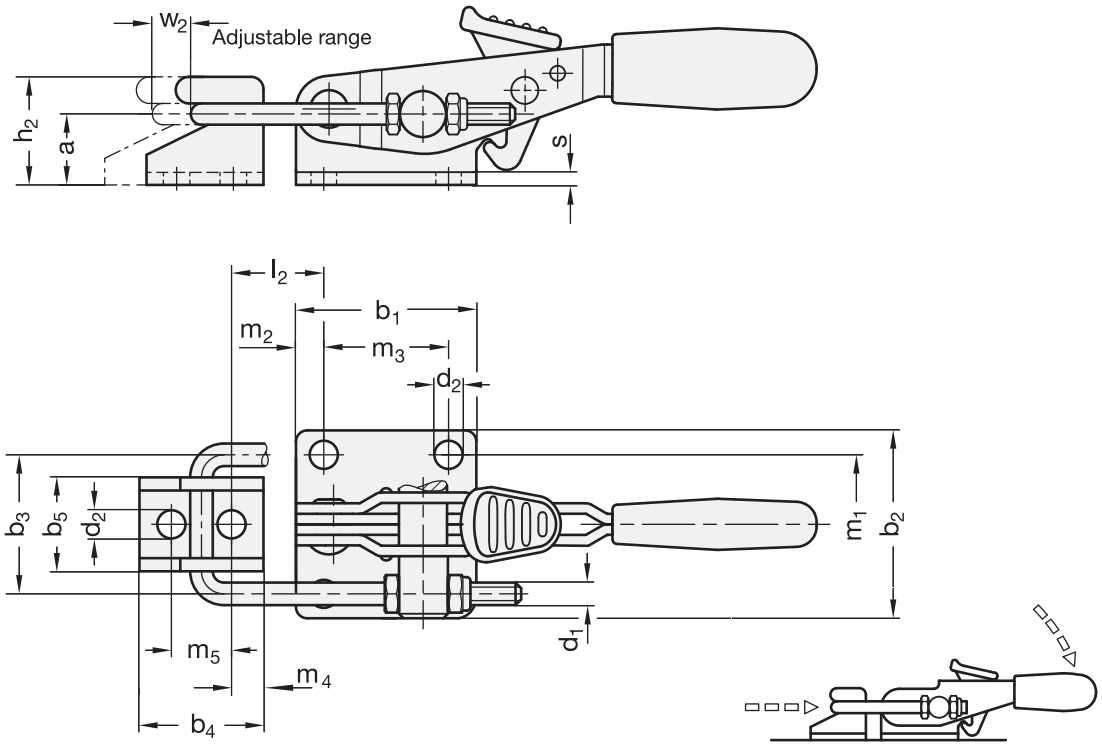
GN 851.3 | Horizontal latch type toggle clamps



GN 851.3

Description	Size	FH in N	a	b1	b2	b3	b4	b5	d1	d2	h1 ≈	h2	l1 ≈	l2 min.	m1	m2	m3	m4	m5	r ≈	s	w1	w2 ≈	⚖
GN 851.3-160-T6	160	1600	12	26	28	21	20	14	M 4	4.3	31	18	99	11	19	5	16	5	10	35	2	25	11	80
GN 851.3-320-T6	320	3200	16	40	44	32	28	22	M 6	6.5	45	25	166	20	32	10.5	19	7	14.3	54	3	35	13	280
GN 851.3-700-T6	700	7000	24	60	54	38	38	26	M 8	8.5	56	36	217	25	38	9.5	41.5	9.5	19	70	3.5	49	26	595
GN 851.3-160-T	160	1600	-	26	28	-	20	14	-	4.3	31	18	-	-	19	5	16	5	10	-	2	-	-	100
GN 851.3-320-T	320	3200	-	40	44	-	28	22	-	6.5	45	25	-	-	32	10.5	19	7	14.3	-	3	-	-	256
GN 851.3-700-T	700	7000	-	60	54	-	38	26	-	8.5	56	36	-	-	38	9.5	41.5	9.5	19	-	3.5	-	-	505

GN 851.3-A4 **STAINLESS STEEL**

Description	Size	FH in N	a	b1	b2	b3	b4	b5	d1	d2	h1 ≈	h2	l1 ≈	l2 min.	m1	m2	m3	m4	m5	r ≈	s	w1	w2 ≈	⚖
GN 851.3-160-T6-A4	160	1600	12	26	28	21	20	14	M 4	4.3	31	18	99	11	19	5	16	5	10	35	2	25	11	92
GN 851.3-320-T6-A4	320	3200	16	40	44	32	28	22	M 6	6.5	45	25	166	20	32	10.5	19	7	14.3	54	3	35	13	300
GN 851.3-700-T6-A4	700	7000	24	60	54	38	38	26	M 8	8.5	56	36	217	25	38	9.5	41.5	9.5	19	70	3.5	49	26	595
GN 851.3-160-T-A4	160	1600	-	26	28	-	20	14	-	4.3	31	18	-	-	19	5	16	5	10	-	2	-	-	80
GN 851.3-320-T-A4	320	3200	-	40	44	-	28	22	-	6.5	45	25	-	-	32	10.5	19	7	14.3	-	3	-	-	261
GN 851.3-700-T-A4	700	7000	-	60	54	-	38	26	-	8.5	56	36	-	-	38	9.5	41.5	9.5	19	-	3.5	-	-	499

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Vertical latch type toggle clamps

Steel / Stainless Steel, for pulling action

SPECIFICATION

Types

- Type **T3**: with U-bolt latch, with catch
- Type **T**: without U-bolt latch, with catch

Version in Steel

Case-hardened Steel C10
zinc plated, blue passivated

U-bolt latch
Steel St 37
zinc plated, blue passivated

All moving parts
lubricated with special grease

Handle with plastic sleeve
red, oil resistant

Version in Stainless Steel NI

Parts in sheet metal / U-bolt latch
Stainless Steel AISI 304

Pin
Stainless Steel AISI 303

All moving parts
lubricated with special grease

Handle with plastic sleeve
red, oil resistant

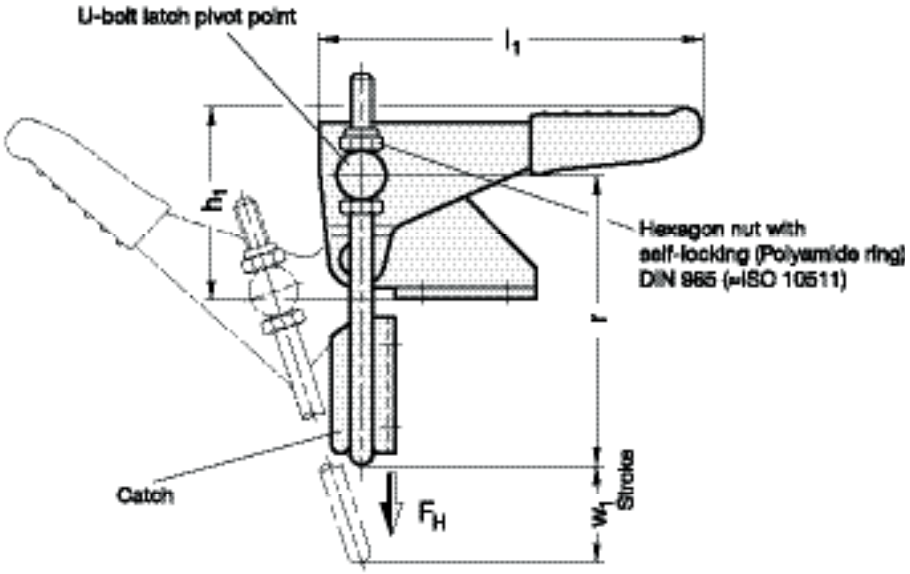
INFORMATION

The stroke of the U-bolt latch of GN 851.1 vertical latch type toggle clamps can be adjusted within its range.
In the clamped position the U-bolt latch with clamping arm is perpendicular to the clamping arm and the plane of the operating handle.
In addition to the standard lengths of the U-bolt latches shown in the table, a variety of other lengths are also available under the GN 951.1 series (see page 1604).

- General information for toggle clamps (see page 1560)

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)



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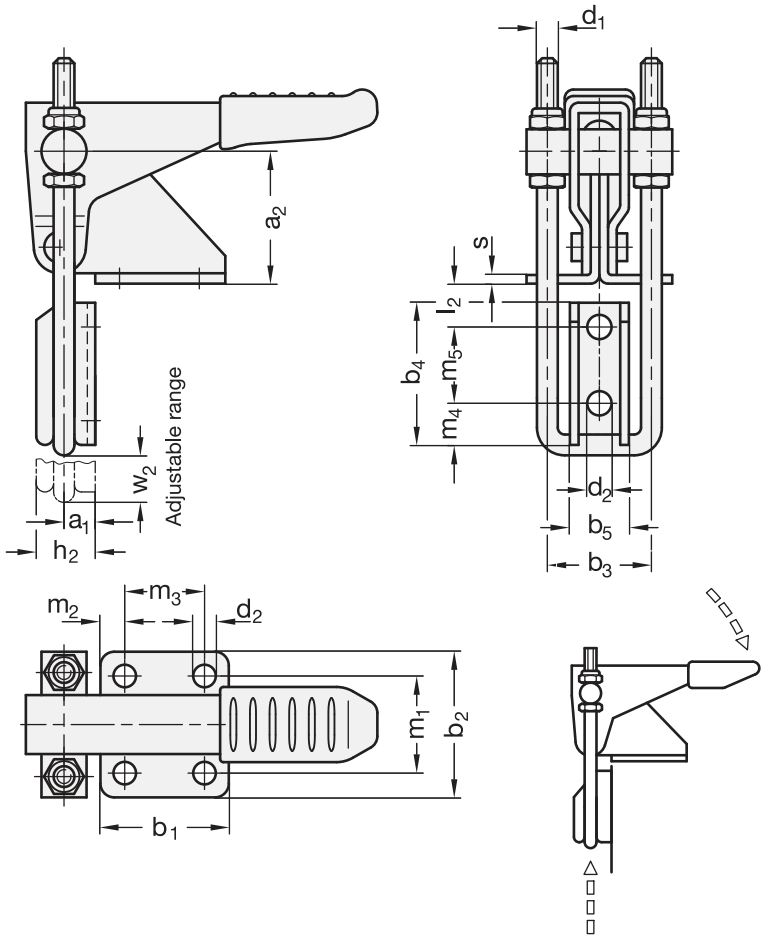

GN 851.1

Description	Size	FH in N	a1	a2	b1	b2	b3	b4	b5	d1	d2	h1	h2	l1 ≈	l2 min.	m1	m2	m3	m4	m5	r ≈	s	w1	w2 ≈	⚖
GN 851.1-160-T3	160	1600	5	25	26	35	21	25.5	14	M 4	4.3	37	10	68	4.5	22	6.5	13	6.7	14.3	50	2	32	12	104
GN 851.1-320-T3	320	3200	8	37	36	44	32	37	22	M 6	6.5	54	15	106	6	25.5	8.5	19	10.5	20.5	78	3	53	21	310
GN 851.1-700-T3	700	7000	13	45	52	54	38	48.5	26	M 8	8.5	67	23	147	8	36.5	10	32	13.5	27	98	3.5	64	30	720
GN 851.1-160-T	160	1600	-	25	26	35	-	25.5	14	-	4.3	37	10	-	-	22	6.5	13	6.7	14.3	-	2	-	-	90
GN 851.1-320-T	320	3200	-	37	36	44	-	37	22	-	6.5	54	15	-	-	25.5	8.5	19	10.5	20.5	-	3	-	-	290
GN 851.1-700-T	700	7000	-	45	52	54	-	48.5	26	-	8.5	67	23	-	-	36.5	10	32	13.5	27	-	3.5	-	-	600

GN 851.1-NI **STAINLESS STEEL**

Description	Size	FH in N	a1	a2	b1	b2	b3	b4	b5	d1	d2	h1	h2	l1 ≈	l2 min.	m1	m2	m3	m4	m5	r ≈	s	w1	w2 ≈	⚖
GN 851.1-160-T3-NI	160	1600	5	25	26	35	21	25.5	14	M 4	4.3	37	10	68	4.5	22	6.5	13	6.7	14.3	50	2	32	12	103
GN 851.1-320-T3-NI	320	3200	8	37	36	44	32	37	22	M 6	6.5	54	15	106	6	25.5	8.5	19	10.5	20.5	78	3	53	21	326
GN 851.1-700-T3-NI	700	7000	13	45	52	54	38	48.5	26	M 8	8.5	67	23	147	8	36.5	10	32	13.5	27	98	3.5	64	30	710
GN 851.1-160-T-NI	160	1600	-	25	26	35	-	25.5	14	-	4.3	37	10	-	-	22	6.5	13	6.7	14.3	-	2	-	-	80
GN 851.1-320-T-NI	320	3200	-	37	36	44	-	37	22	-	6.5	54	15	-	-	25.5	8.5	19	10.5	20.5	-	3	-	-	277
GN 851.1-700-T-NI	700	7000	-	45	52	54	-	48.5	26	-	8.5	67	23	-	-	36.5	10	32	13.5	27	-	3.5	-	-	592

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RoHS

Latch type toggle clamps

for pulling action

SPECIFICATION

Types

- Type **T4**: with U-bolt latch, with catch
- Type **T**: without U-bolt latch, with catch

Parts in sheet metal
Case-hardened Steel C10
zinc plated, blue passivated

U-bolt latch
Steel St 37
zinc plated, blue passivated

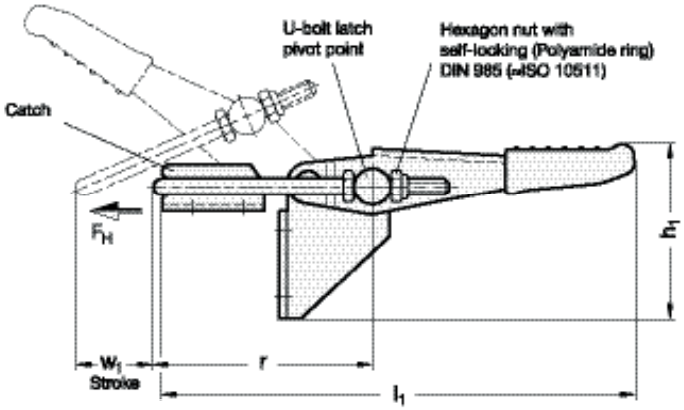
All moving parts
lubricated with special grease

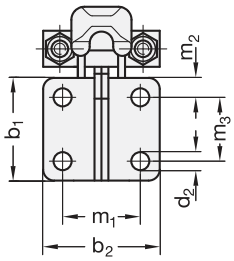
Handle with plastic sleeve
red, oil resistant

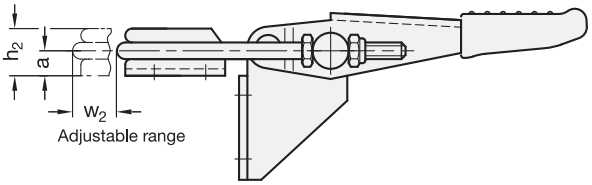
INFORMATION

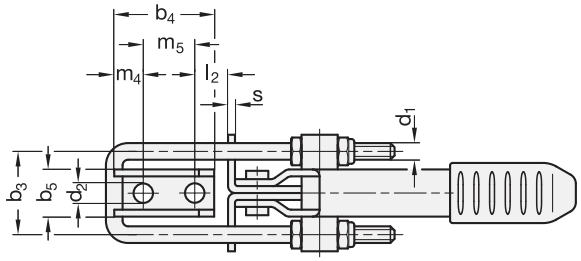
The stroke of the U-bolt latch of GN 851.2 latch type toggle clamps can be adjusted within its range.
In the clamped position the U-bolt latch and the clamping arm are horizontal to the vertical fixing plane.
In addition to the standard lengths of the U-bolt latches shown in the table, a variety of other lengths are also available under the GN 951.1 series (see page 1604).
- General information for toggle clamps (see page 1560)

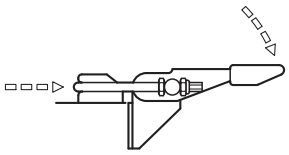
SPEEDY BLOCK











GN 851.2

Description	Size	FH in N	a	b1	b2	b3	b4	b5	d1	d2	h1 ≈	h2	l1 ≈	l2 min.	m1	m2	m3	m4	m5	r ≈	s	w1	w2 ≈	⚖
GN 851.2-160-T4	160	1600	5	26	35	21	25.5	14	M 4	4.3	40	10	104	4.5	22	6.5	13	6.5	14.3	50	2	32	12	100
GN 851.2-320-T4	320	3200	8	36	44	32	37	22	M 6	6.5	57.5	15	159	6	25.5	8.5	19	10.5	20.5	78	3	53	21	305
GN 851.2-700-T4	700	7000	13	52	54	38	48.5	26	M 8	8.5	82	23	225	8	36.5	10	32	13.5	27	98	3.5	64	30	675
GN 851.2-160-T	160	1600	-	26	35	-	25.5	14	-	4.3	40	10	-	-	22	6.5	13	6.5	14.3	-	2	-	-	100
GN 851.2-320-T	320	3200	-	36	44	-	37	22	-	6.5	57.5	15	-	-	25.5	8.5	19	10.5	20.5	-	3	-	-	260
GN 851.2-700-T	700	7000	-	52	54	-	48.5	26	-	8.5	82	23	-	-	36.5	10	32	13.5	27	-	3.5	-	-	675

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GN 852.1

Vertical hook type toogle clamps

heavy duty type

SPECIFICATION

Types

- Type **T**: with mounting holes, without U-bolt latch, with catch
- Type **T3**: with mounting holes, with U-bolt latch, with catch
- Type **TS**: for welding, without U-bolt latch, with catch
- Type **T3S**: for welding, with U-bolt latch, with catch

Base / operating handle
Steel C22

- forged
- blackened

Catch
Sheet metal
blackened

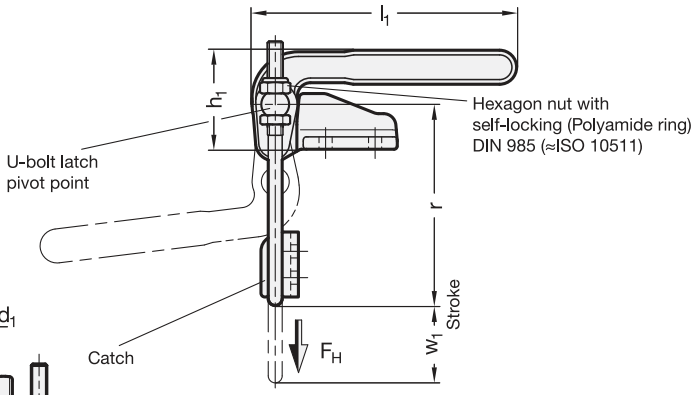
U-bolt latch / bearing pins
Steel St 37
zinc plated, blue passivated

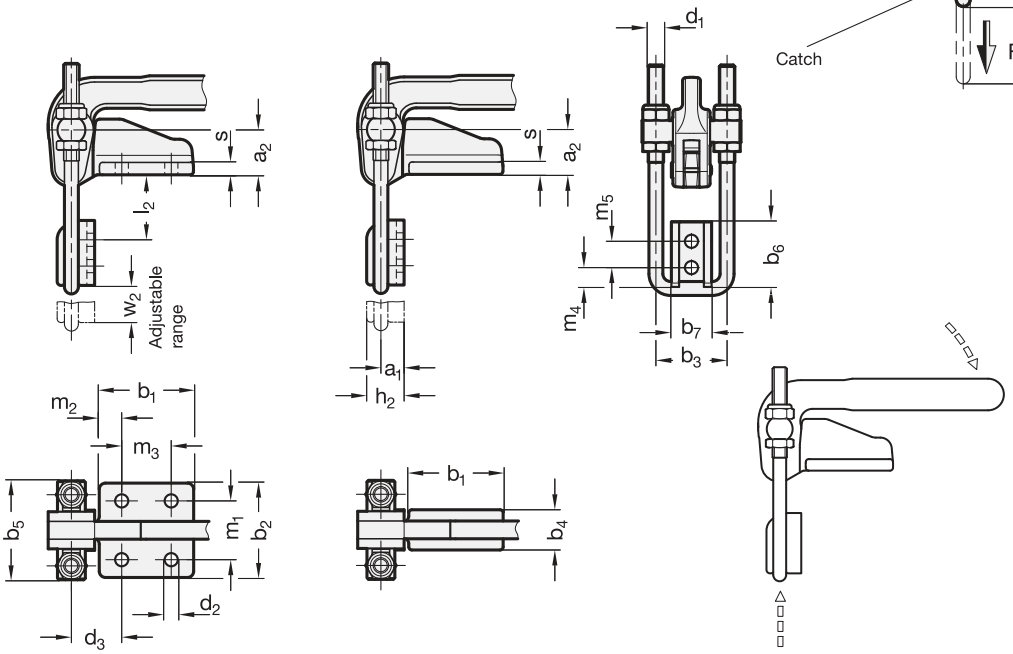
All moving parts
lubricated with special grease

INFORMATION

The U-bolt latch of GN 852.1 vertical hook type toggle clamps is adjustable within the adjusting range.
Once in the clamping position, the latch bolt is perpendicular to the clamping arm and to the mounting base of the toggle clamp.
In addition to the standard lengths of the U-bolt latches shown in the table, a variety of other lengths are also available under the GN 951.2 series (see page 1605).

- General information for toggle clamps (see page 1560)





GN 852.1

Description	Size	FH in N	a1	a2	b1	b2	b3	b4	b5	b6	b7	d1	d2	d3	h1 ≈	h2	l1 ≈	l2 min.	m1	m2	m3	m4	m5	r ≈	s	w1	w2 ≈	⚖
GN 852.1-1400-T	1400	12000	-	29	61	61	46	-	64	42	26	-	8.5	32.5	64	24	171	-	38	14.5	32	12.5	17	-	8	-	-	954
GN 852.1-1400-T3	1400	12000	15	29	61	61	46	-	64	42	26	M 10	8.5	32.5	64	24	171	42	38	14.5	32	12.5	17	106	8	50	22	1145
GN 852.1-1400-T3S	1400	12000	-	29	61	-	46	26	64	42	26	M 10	-	-	64	24	171	42	-	-	-	12.5	17	106	8	50	22	1018
GN 852.1-1400-TS	1400	12000	15	29	61	-	46	26	64	42	26	-	-	-	64	24	171	-	-	-	-	12.5	17	-	8	-	-	838

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Latch type toggle clamps

Steel / Stainless Steel, heavy duty type

SPECIFICATION

Types

- Type **T2**: with mounting holes, with U-bolt latch, with catch
- Type **T**: with mounting holes, without U-bolt latch, with catch
- Type **T2S**: for welding, with U-bolt latch, with catch
- Type **TS**: for welding, without U-bolt latch, with catch

Version in Steel

Body / catch / clamping lever
Steel C22

- forged
- black lacquered (Type T2 / T)
- blackened (Type T2S / TS)

U-bolt latch / bearing pin
Steel St 37
zinc plated, blue passivated

All moving parts
lubricated with special grease

Version in Stainless Steel NI

Body / catch / clamping lever / U-bolt latch
Stainless Steel AISI 304
forged

Other parts
Stainless Steel AISI 303

All moving parts
lubricated with special grease

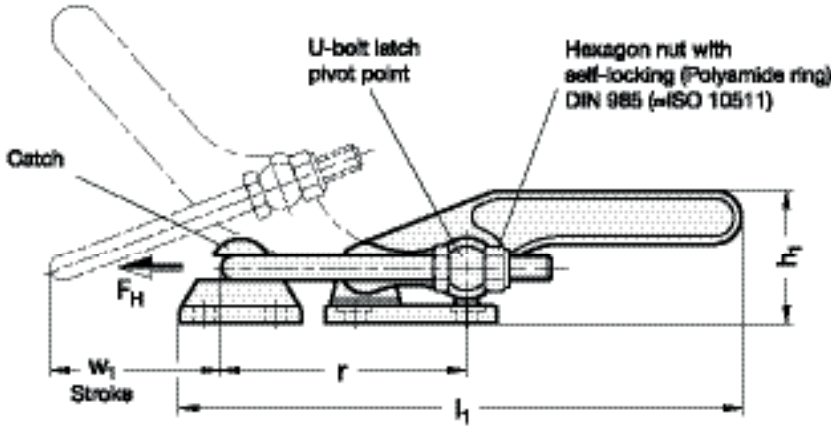
TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)

INFORMATION

GN 852 heavy duty latch type toggle clamps are used for very high holding forces as may be required in plastic high pressure mold forming.
The stroke of the U-bolt latch can be adjusted within its range.
In addition to the standard lengths of the U-bolt latches shown in the table, a variety of other lengths are also available under the GN 951.2 series (see page 1605).

- General information for toggle clamps (see page 1560)



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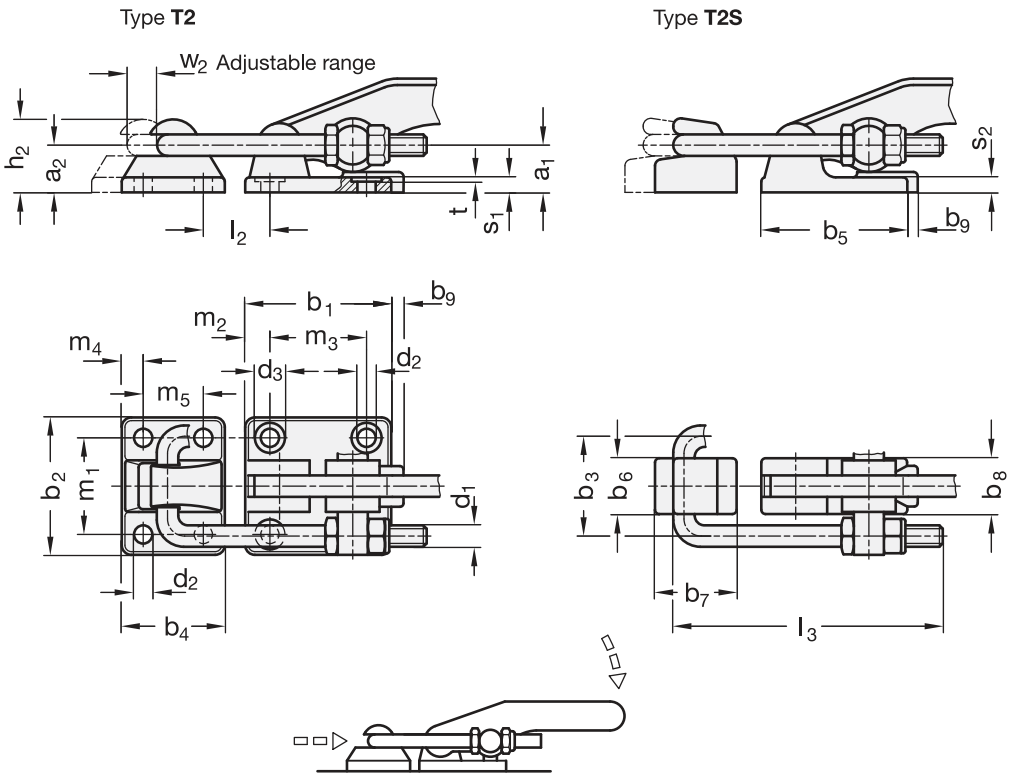
GN 852

Latch type toggle clamps



GN 852

Description	Size	FH in N	a1	a2	b1	b2	b3	b4	b5	b6	b7	b8	b9	d1	d2	d3	h1 ≈	h2	l1 ≈	l2 min.	l3 ≈	m1	m2	m3	m4	m5	r ≈	s1	s2	t	w1	w2 ≈	⚖
GN 852-1700-T	1700	17000	22	21	68	64	46	48	-	-	-	28	6	M 10	8.5	14	55	34.5	223	33	129	45	11.5	45	10	28	96	7	-	2	54	15	954
GN 852-2800-T	2800	40000	28	27	85	80	55	60	-	-	-	32	-	M 12	10.5	16	65	42.5	265	32.1	151	57	14	57	12.5	35	117	9	-	2	78	15	1700
GN 852-1700-T2	1700	17000	22	21	68	64	46	48	-	-	-	28	6	M 10	8.5	14	55	34.5	223	33	129	45	11.5	45	10	28	96	7	-	2	54	15	1100
GN 852-2800-T2	2800	40000	28	27	85	80	55	60	-	-	-	32	-	M 12	10.5	16	65	42.5	265	32.1	151	57	14	57	12.5	35	117	9	-	2	78	15	2000
GN 852-1700-TS	1700	17000	22	21	-	-	46	-	68	26.5	38	28	6	M 10	-	-	55	34.5	218	-	129	-	-	-	-	-	96	-	7	-	54	15	225
GN 852-2800-TS	2800	40000	28	27	-	-	55	-	80	32	50	32	-	M 12	-	-	65	42.5	265	-	151	-	-	-	-	-	117	-	12.7	-	78	15	1433
GN 852-1700-T2S	1700	17000	22	21	-	-	46	-	68	26.5	38	28	6	M 10	-	-	55	34.5	218	-	129	-	-	-	-	-	96	-	7	-	54	15	900
GN 852-2800-T2S	2800	40000	28	27	-	-	55	-	80	32	50	32	-	M 12	-	-	65	42.5	265	-	151	-	-	-	-	-	117	-	12.7	-	78	15	1500

GN 852-NI

STAINLESS STEEL

Description	Size	FH in N	a1	a2	b1	b2	b3	b4	b5	b6	b7	b8	b9	d1	d2	d3	h1 ≈	h2	l1 ≈	l2 min.	l3 ≈	m1	m2	m3	m4	m5	r ≈	s1	s2	t	w1	w2 ≈	⚖
GN 852-1700-T-NI	1700	14000	22	21	68	64	46	48	-	-	-	28	6	M 10	8.5	14	55	34.5	223	33	129	45	11.5	45	10	28	96	7	-	2	54	15	900
GN 852-2800-T-NI	2800	30000	28	27	85	80	55	60	-	-	-	32	-	M 12	10.5	16	65	42.5	265	32.1	151	57	14	57	12.5	35	117	9	-	2	78	15	1851
GN 852-1700-T2-NI	1700	14000	22	21	68	64	46	48	-	-	-	28	6	M 10	8.5	14	55	34.5	223	33	129	45	11.5	45	10	28	96	7	-	2	54	15	1100
GN 852-2800-T2-NI	2800	30000	28	27	85	80	55	60	-	-	-	32	-	M 12	10.5	16	65	42.5	265	32.1	151	57	14	57	12.5	35	117	9	-	2	78	15	2115
GN 852-1700-TS-NI	1700	14000	22	21	-	-	46	-	68	26.5	38	28	6	M 10	-	-	55	34.5	218	-	129	-	-	-	-	-	96	-	7	-	54	15	756
GN 852-2800-TS-NI	2800	30000	28	27	-	-	55	-	80	32	50	32	-	M 12	-	-	65	42.5	265	-	151	-	-	-	-	-	117	-	12.7	-	78	15	1421
GN 852-1700-T2S-NI	1700	14000	22	21	-	-	46	-	68	26.5	38	28	6	M 10	-	-	55	34.5	218	-	129	-	-	-	-	-	96	-	7	-	54	15	900
GN 852-2800-T2S-NI	2800	30000	28	27	-	-	55	-	80	32	50	32	-	M 12	-	-	65	42.5	265	-	151	-	-	-	-	-	117	-	12.7	-	78	15	1670

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Latch type toggle clamps

Steel / Stainless Steel, with safety hook, heavy duty type

SPECIFICATION

Types

- Type **T6**: with mounting holes, with U-bolt latch, with catch
- Type **T**: with mounting holes, without U-bolt latch, with catch
- Type **T6S**: for welding, with U-bolt latch, with catch
- Type **TS**: for welding, without U-bolt latch, with catch

Version in Steel

Body / catch / clamping lever
Steel C22

- forged
- black lacquered (Type T6 / T)
- blackened (Type T6S / TS)

U-bolt latch / bearing pin
Steel St 37
zinc plated, blue passivated

All moving parts
lubricated with special grease

Version in Stainless Steel NI

Body / catch / clamping lever / U-bolt latch
Stainless Steel AISI 304
forged

Other parts
Stainless Steel AISI 303

All moving parts
lubricated with special grease

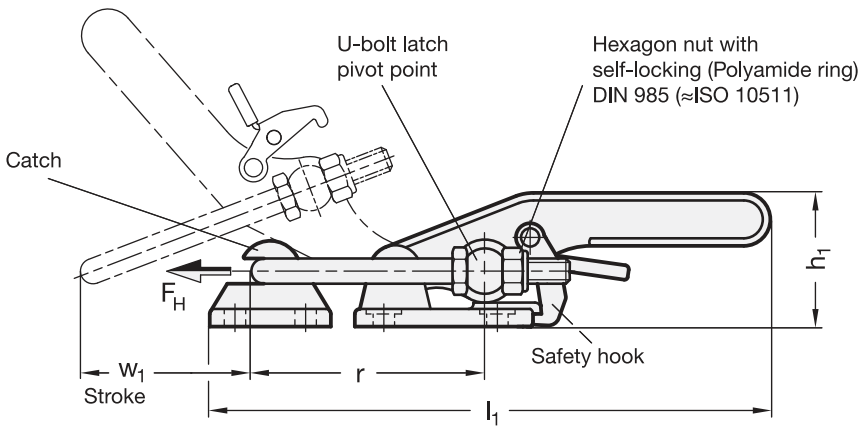
TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)

INFORMATION

GN 852.3 latch type toggle clamps are compact in design and can be used to ensure high holding capacities.
When closing the spanner, a safety hook positively locks onto the body. This prevents the inadvertent or vibration-induced release from the clamping position. To open the safety hook it is unlocked per one-hand operation.
The stroke of the U-bolt latch can be adjusted within its range.
In addition to the standard lengths of the U-bolt latches shown in the table, a variety of other lengths are also available under the GN 951.1 series (see page 1604).

- General information for toggle clamps (see page 1560)



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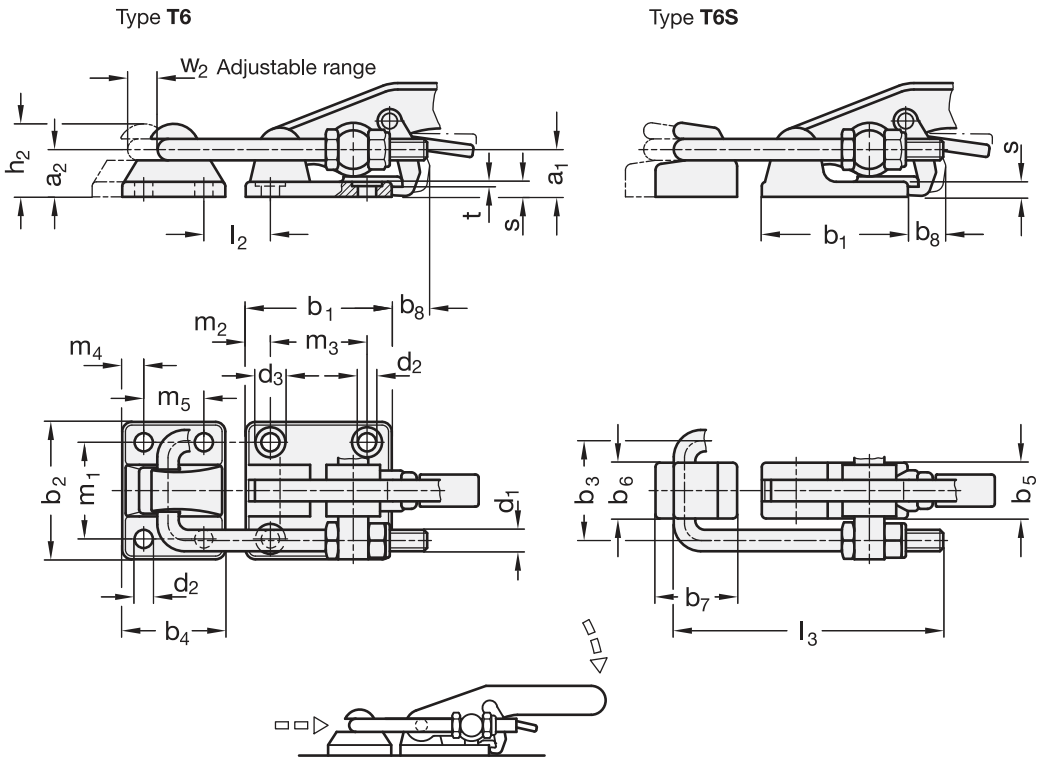
GN 852.3 | Latch type toggle clamps



GN 852.3

Description	Size	FH in N	a1	a2	b1	b2	b3	b4	b5	b6	b7	b8	d1	d2	d3	h1 ≈	h2	l1 ≈	l2 min.	l3 ≈	m1	m2	m3	m4	m5	r ≈	s	t	w1	w2 ≈	⚖
GN 852.3-1700-T6	1700	17000	22	21	68	64	46	48	-	-	-	17	M 10	8.5	14	55	34.5	223	33	129	45	11.5	45	10	28	96	7	2	54	15	1127
GN 852.3-4000-T6	4000	40000	28	27	85	80	55	60	-	-	-	20	M 12	10.5	16	68	42.5	271	30	151	57	14	57	12.5	35	107	9	2	62	25	2018
GN 852.3-1700-T	1700	17000	-	-	68	64	-	48	-	-	-	17	-	8.5	14	55	34.5	-	-	-	45	11.5	45	10	28	-	7	2	-	-	960
GN 852.3-4000-T	4000	40000	-	-	85	80	-	60	-	-	-	20	-	10.5	16	68	42.5	-	-	-	57	14	57	12.5	35	-	9	2	-	-	1735
GN 852.3-1700-T6S	1700	17000	22	21	-	-	46	-	28	26.5	38	17	M 10	-	-	55	34.5	218	33	129	-	-	-	-	-	96	-	-	54	15	918
GN 852.3-4000-T6S	4000	40000	28	27	-	-	55	-	34	32	50	20	M 12	-	-	68	42.5	266	30	151	-	-	-	-	-	107	-	-	62	25	1668
GN 852.3-1700-TS	1700	17000	-	-	-	-	-	-	28	26.5	38	17	-	-	-	55	34.5	-	-	-	-	-	-	-	-	-	-	-	-	-	746
GN 852.3-4000-TS	4000	40000	-	-	-	-	-	-	34	32	50	20	-	-	-	68	42.5	-	-	-	-	-	-	-	-	-	-	-	-	-	1300

GN 852.3-NI

STAINLESS STEEL

Description	Size	FH in N	a1	a2	b1	b2	b3	b4	b5	b6	b7	b8	d1	d2	d3	h1 ≈	h2	l1 ≈	l2 min.	l3 ≈	m1	m2	m3	m4	m5	r ≈	s	t	w1	w2 ≈	⚖
GN 852.3-1700-T6-NI	1700	14000	22	21	68	64	46	48	-	-	-	17	M 10	8.5	14	55	34.5	223	33	129	45	11.5	45	10	28	96	7	2	54	15	1131
GN 852.3-4000-T6-NI	4000	30000	28	27	85	80	55	60	-	-	-	20	M 12	10.5	16	68	42.5	271	30	151	57	14	57	12.5	35	107	9	2	62	25	2017
GN 852.3-1700-T-NI	1700	14000	-	-	68	64	-	48	-	-	-	17	-	8.5	14	55	34.5	-	-	-	45	11.5	45	10	28	-	7	2	-	-	951
GN 852.3-4000-T-NI	4000	30000	-	-	85	80	-	60	-	-	-	20	-	10.5	16	68	42.5	-	-	-	57	14	57	12.5	35	-	9	2	-	-	1725
GN 852.3-1700-T6S-NI	1700	14000	22	21	-	-	46	-	28	26.5	38	17	M 10	-	-	55	34.5	218	33	129	-	-	-	-	-	96	-	-	54	15	932
GN 852.3-4000-T6S-NI	4000	30000	28	27	-	-	55	-	34	32	50	20	M 12	-	-	68	42.5	266	3	151	-	-	-	-	-	107	-	-	62	25	1691
GN 852.3-1700-TS-NI	1700	14000	-	-	-	-	-	-	28	26.5	38	17	-	-	-	55	34.5	-	-	-	-	-	-	-	-	-	-	-	-	-	765
GN 852.3-4000-TS-NI	4000	30000	-	-	-	-	-	-	34	32	50	20	-	-	-	68	42.5	-	-	-	-	-	-	-	-	-	-	-	-	-	1391

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GN 951.1

Square U-bolts

Steel / Stainless Steel, for GN 851 / GN 851.1 / GN 851.2 / GN 851.3 latch type toggle clamps

SPECIFICATION

Version in Steel ST

zinc plated, blue passivated

Version in Stainless Steel AISI 304 NI

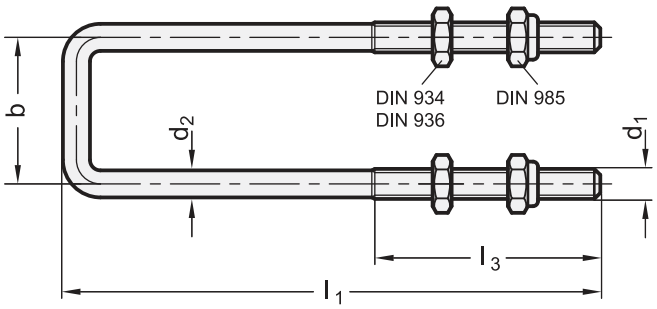
Hexagon nuts (with polyamide insert)
M4: DIN 934 / DIN 985
M6 / M8: DIN 936 / DIN 985
Steel, zinc plated, resp. Stainless Steel

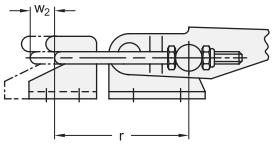
TECHNICAL INFORMATION

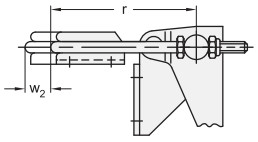
- Stainless Steel characteristics (see page A26)

ON REQUEST

- Stainless Steel AISI 316 **A4**







*Complete with material index of the square U-bolts

ST	NI
Steel	Stainless Steel

GN 951.1 — **STAINLESS STEEL**

Description	d1	b	l1	d2	l3	Size GN 851 / GN 851.3	GN 851 r at w2 =0	GN 851 w2	GN 851.3 r at w2 =0	GN 851.3 w2	Size GN 851.1 / GN 851.2	GN 851.1 / GN 851.2 r at w2 =0	GN 851.1 / GN 851.2 w2	⚖
GN 951.1-M4-21-56-*	M 4	21	56**	3.4	27.5	160	35	11	35	11	-	-	-	11
GN 951.1-M4-21-70-*	M 4	21	70***	3.4	28.5	160	48	12	48	12	160	50	12	15
GN 951.1-M4-21-103-*	M 4	21	103	3.4	30	160	80	14	80	14	160	82	14	19
GN 951.1-M4-21-153-*	M 4	21	153	3.4	35	160	125	19	125	19	160	127	19	23
GN 951.1-M4-21-203-*	M 4	21	203	3.4	35	160	175	19	175	19	160	177	19	27
GN 951.1-M6-32-78-*	M 6	32	78**	5.2	33	320	57	10	54	13	-	-	-	35
GN 951.1-M6-32-110-*	M 6	32	110***	5.2	44	320	75	24	75	24	320	78	21	45
GN 951.1-M6-32-130-*	M 6	32	130	5.2	45	320	94	25	94	25	320	94	25	60
GN 951.1-M6-32-155-*	M 6	32	155	5.2	45	320	119	25	119	25	320	119	25	73
GN 951.1-M6-32-205-*	M 6	32	205	5.2	45	320	169	25	169	25	320	169	25	95
GN 951.1-M8-38-111-*	M 8	38	111**	7.2	52	700	74	22	70	26	-	-	-	85
GN 951.1-M8-38-127-*	M 8	38	127	7.2	60	700	78	34	78	34	-	-	-	100
GN 951.1-M8-38-143-*	M 8	38	143***	7.2	56	700	98	30	98	30	700	98	30	110
GN 951.1-M8-38-157-*	M 8	38	157	7.2	60	700	108	34	108	34	700	108	34	135
GN 951.1-M8-38-207-*	M 8	38	207	7.2	60	700	158	34	158	34	700	158	34	185

** These U-bolt latch lengths are included in the delivery of standard orders for GN 851 / GN 851.3.

*** These U-bolt latch lengths are included in the delivery of standard orders for GN 851.1 / GN 851.2.

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GN 951.2

Square U-bolts

Steel / Stainless Steel, for GN 852 / GN 852.1 / GN 852.3 latch type toggle clamps

SPECIFICATION

Version in Steel ST

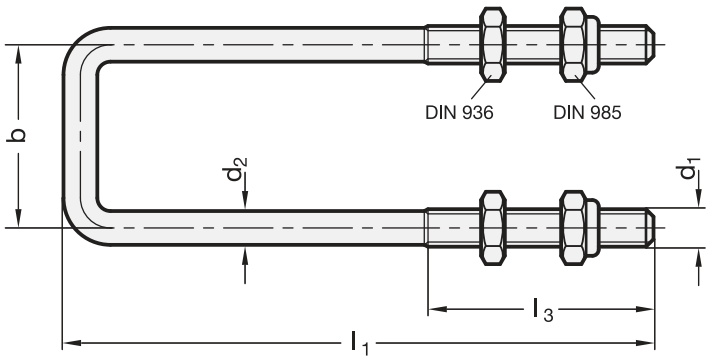
zinc plated, blue passivated

Version in Stainless Steel AISI 304 NI

Hexagon nuts (with polyamide insert)
DIN 936 / DIN 985
Steel, zinc plated, resp. Stainless Steel

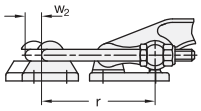
TECHNICAL INFORMATION

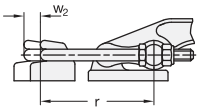
- Stainless Steel characteristics (see page A26)



*Complete with material index of the square U-bolts

ST	NI
Steel	Stainless Steel





GN 951.2 — **STAINLESS STEEL**

Description	d1	b	l1	d2	l3	Size GN 852 / GN 852.3	GN 852 r at w2 =0	GN 852 w2	GN 852.3 r at w2=0	GN 852.3 w2	Size GN 852.1	GN 852.1 r at w2=0	GN 852.1 w2	⚖
GN 951.2-M10-46-129-*	M 10	46	129**	9	45	1700	96	15	96	15	1400	95	15	160
GN 951.2-M10-46-149-*	M 10	46	149***	9	52	1700	106	22	106	22	1400	108	22	173
GN 951.2-M10-46-179-*	M 10	46	179	9	45	1700	146	15	146	15	1400	145	15	223
GN 951.2-M10-46-209-*	M 10	46	209	9	45	1700	176	15	176	15	1400	175	15	243
GN 951.2-M10-46-259-*	M 10	46	259	9	45	1700	226	15	226	15	1400	225	15	300
GN 951.2-M12-55-151-*	M 12	55	151**	10.8	70	2800	117	15	107	25	-	-	-	233
GN 951.2-M12-55-211-*	M 12	55	211	10.8	70	2800	156	36	156	36	-	-	-	440
GN 951.2-M12-55-361-*	M 12	55	361	10.8	70	2800	306	36	306	36	-	-	-	600
GN 951.2-M12-55-421-*	M 12	55	421	10.8	70	2800	366	36	366	36	-	-	-	680

** These U-bolt latch lengths are included in the delivery of standard orders for GN 852 / GN 852.3.

*** This U-bolt latch length is included in the delivery of standard orders for GN 852.1

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Latch type toggle clamps

Steel / Stainless Steel, with locking mechanism

SPECIFICATION

Types

- Type **T5**: without latch bolt, without catch
- Type **TG**: with oval head latch bolt, with catch
- Type **TT**: with T-head latch bolt, with catch
- Type **TU**: with J-hook latch bolt, with catch

Version in Steel

Parts in sheet metal
Case-hardened Steel C10
blackened

Latch bolt
Steel St 32
blackened

All moving parts
lubricated with special grease

Solid moulded plastic handle sleeve
red, oil resistant

Version in Stainless Steel NI

Parts in sheet metal
Stainless Steel AISI 304

Latch bolt
Stainless Steel AISI 304

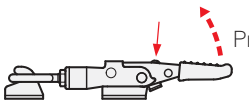
All moving parts
lubricated with special grease

Solid moulded plastic handle sleeve
red, oil resistant

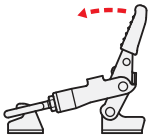
TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)

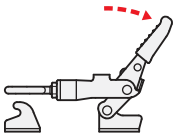
DESCRIPTION OF FUNCTION (FOR ONE-HAND OPERATION)



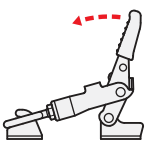
Press the release button for **releasing**.



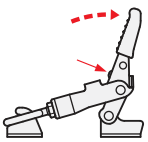
Lift the clamping arm until the latch bolt disengages from the catch.



Retracting the clamping arm will lift the latch bolt and release the catch (one-hand operation).



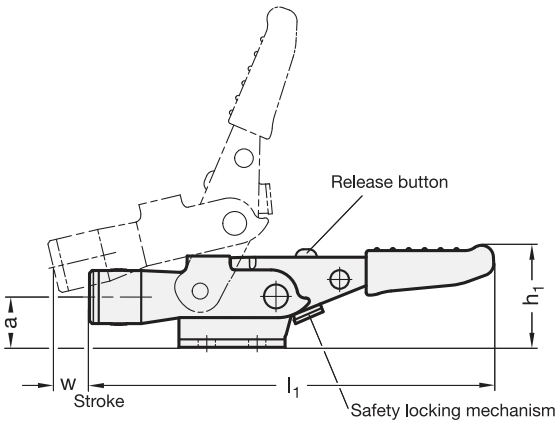
For **clamping operation**, lift the clamping arm until it rests on the catch.

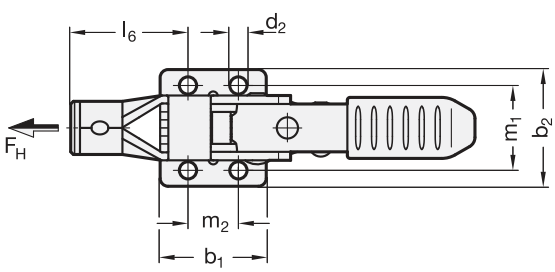


The clamping arm engages in the catch if the release button is pressed for the clamping operation.
When clamping in the end position, the system locks automatically by spring force.

INFORMATION

GN 853 latch type toggle clamps feature a locking mechanism which prevents an inadvertent or vibration-induced opening of the clamp. Another benefit is the option of operating the clamp with one hand.





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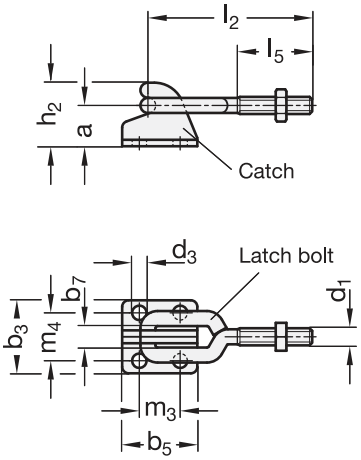
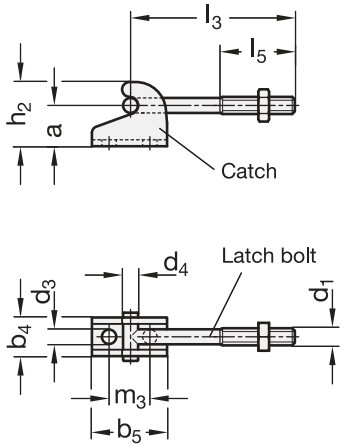
GN 853 | Latch clamps

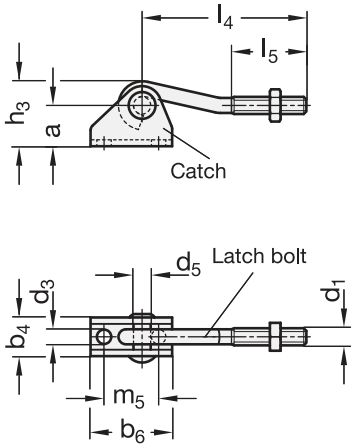
Type **TG**
Oval head latch bolt



Type **TT**
T-head latch bolt



Type **TU**
J-hook latch bolt



GN 853

Description	Size	FH in N	a	b1	b2	b3	b4	b5	b6	b7	d1	d2	d3	d4	d5	h1 ≈	h2	h3	l1 ≈	l2 ≈	l3 ≈	l4 ≈	l5	l6	m1	m2	m3	m4	m5	s	w	⚖
GN 853-160-T5	160	1750	-	26	28	-	-	-	-	-	-	4.5	-	-	-	27	-	-	103	-	-	-	-	30	19	16	-	-	-	2	8	80
GN 853-320-T5	320	4000	-	40	44	-	-	-	-	-	-	6.7	-	-	-	38.5	-	-	153	-	-	-	-	44.5	32	19	-	-	-	3	13	297
GN 853-700-T5	700	7500	-	60	54	-	-	-	-	-	-	8.5	-	-	-	53	-	-	222	-	-	-	-	51	38	41.5	-	-	-	3.5	19	686
GN 853-160-TG	160	1750	13	26	28	23	-	26	-	6.8	M 6	4.5	4.5	-	-	27	20	-	103	55	-	-	28	30	19	16	16	14.3	-	2	8	130
GN 853-320-TG	320	4000	19	40	44	34	-	35	-	10	M 8	6.7	6.7	-	-	38.5	30	-	153	76.5	-	-	34	44.5	32	19	19	22.3	-	3	13	383
GN 853-700-TG	700	7500	28	60	54	41	-	50	-	11	M 10	8.5	8.5	-	-	53	40.5	-	222	95.5	-	-	42	51	38	41.5	31	25.4	-	3.5	19	880
GN 853-160-TU	160	1750	13	26	28	-	14	-	35	-	M 6	4.5	-	-	6	27	-	20.5	103	-	-	54	28	30	19	16	-	-	25.4	2	8	120
GN 853-320-TU	320	4000	19	40	44	-	18	-	38	-	M 8	6.7	-	-	8	38.5	-	28	153	-	-	76.5	34	44.5	32	19	-	-	25.4	3	13	380
GN 853-700-TU	700	7500	28	60	54	-	26	-	50	-	M 10	8.5	-	-	10	53	-	39	222	-	-	92	42	51	38	41.5	-	-	31	3.5	19	840
GN 853-160-TT	160	1750	13	26	28	-	14	26	-	-	M 6	4.5	-	5.2	-	27	20	-	103	-	55	-	28	30	19	16	16	-	-	2	8	110
GN 853-320-TT	320	4000	19	40	44	-	18	35	-	-	M 8	6.7	-	7	-	38.5	30	-	153	-	76.5	-	34	44.5	32	19	19	-	-	3	13	360
GN 853-700-TT	700	7500	28	60	54	-	26	50	-	-	M 10	8.5	-	9	-	53	40.5	-	222	-	95.5	-	42	51	38	41.5	31	-	-	3.5	19	840

GN 853-NI

STAINLESS STEEL

Description	Size	FH in N	a	b1	b2	b3	b4	b5	b6	b7	d1	d2	d3	d4	d5	h1 ≈	h2	h3	l1 ≈	l2 ≈	l3 ≈	l4 ≈	l5	l6	m1	m2	m3	m4	m5	s	w	⚖
GN 853-160-T5-NI	160	1750	-	26	28	-	-	-	-	-	-	4.5	-	-	-	27	-	-	103	-	-	-	-	30	19	16	-	-	-	2	8	97
GN 853-320-T5-NI	320	4000	-	40	44	-	-	-	-	-	-	6.7	-	-	-	38.5	-	-	153	-	-	-	-	44.5	32	19	-	-	-	3	13	300
GN 853-700-T5-NI	700	7500	-	60	54	-	-	-	-	-	-	8.5	-	-	-	53	-	-	222	-	-	-	-	51	38	41.5	-	-	-	3.5	19	681
GN 853-160-TG-NI	160	1750	13	26	28	23	-	26	-	6.8	M 6	4.5	4.5	-	-	27	20	-	103	55	-	-	28	30	19	16	16	14.3	-	2	8	97
GN 853-320-TG-NI	320	4000	19	40	44	34	-	35	-	10	M 8	6.7	6.7	-	-	38.5	30	-	153	76.5	-	-	34	44.5	32	19	19	22.3	-	3	13	330
GN 853-700-TG-NI	700	7500	28	60	54	41	-	50	-	11	M 10	8.5	8.5	-	-	53	40.5	-	222	95.5	-	-	42	51	38	41.5	31	25.4	-	3.5	19	883
GN 853-160-TU-NI	160	1750	13	26	28	-	14	-	35	-	M 6	4.5	-	-	6	27	-	20.5	103	-	-	54	28	30	19	16	-	-	25.4	2	8	134
GN 853-320-TU-NI	320	4000	19	40	44	-	18	-	38	-	M 8	6.7	-	-	8	38.5	-	28	153	-	-	76.5	34	44.5	32	19	-	-	25.4	3	13	380
GN 853-700-TU-NI	700	7500	28	60	54	-	26	-	50	-	M 10	8.5	-	-	10	53	-	39	222	-	-	92	42	51	38	41.5	-	-	31	3.5	19	858
GN 853-160-TT-NI	160	1750	13	26	28	-	14	26	-	-	M 6	4.5	-	5.2	-	27	20	-	103	-	55	-	28	30	19	16	16	-	-	2	8	120
GN 853-320-TT-NI	320	4000	19	40	44	-	18	35	-	-	M 8	6.7	-	7	-	38.5	30	-	153	-	76.5	-	34	44.5	32	19	19	-	-	3	13	360
GN 853-700-TT-NI	700	7500	28	60	54	-	26	50	-	-	M 10	8.5	-	9	-	53	40.5	-	222	-	95.5	-	42	51	38	41.5	31	-	-	3.5	19	780

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Latch type toggle clamps

with trigger function

SPECIFICATION

Type

- Type **T2S**: for welding

Codings

- Coding **1**: with bore for gear lever handle
- Coding **2**: with clamping arm

Clamping bearing / clamping arm
Steel

- forged
- weldable
- blank

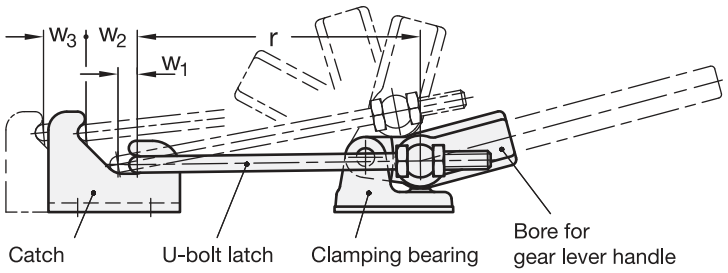
U-bolt latch / bearing pins
Steel St 37
blank

Catch
Sheet metal steel
blank

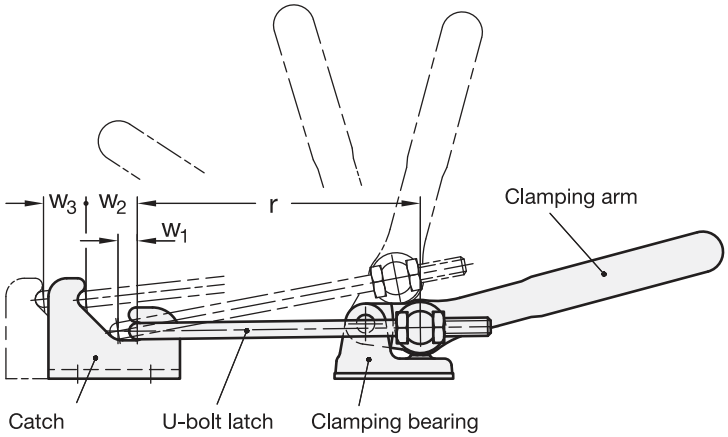
INFORMATION

The outstanding feature of GN 854 latch type toggle clamps is their highly robust, sturdy and compact design, allowing their use under demanding conditions, e.g. exposure to high temperatures, dust, spray mist, etc.
The specially designed catch allows the forced loosening of the clamping by the clamping arm moving the U-bolt latch forward, e.g. for separating mould halves.
Latch type toggle clamps with bore (coding 1) are operated with a gear lever handle which is plugged into the latch and pulled off after operation. This saves space and has the added advantage that the gear lever handle is not exposed to adverse ambient conditions, e.g. becoming too hot to operate. The gear lever handle is not included in the delivery.
The catch can also be attached using screws or bolts.
If required, clamps and U-bolt latches are also available as separate parts; for replacement, the bearing pin is easily dismantled.

Coding **1**



Coding **2**



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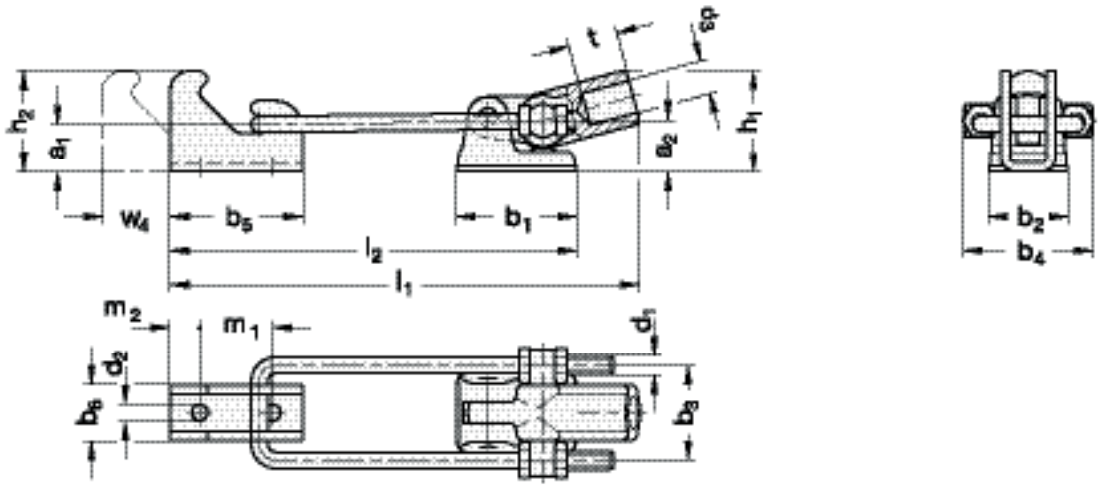
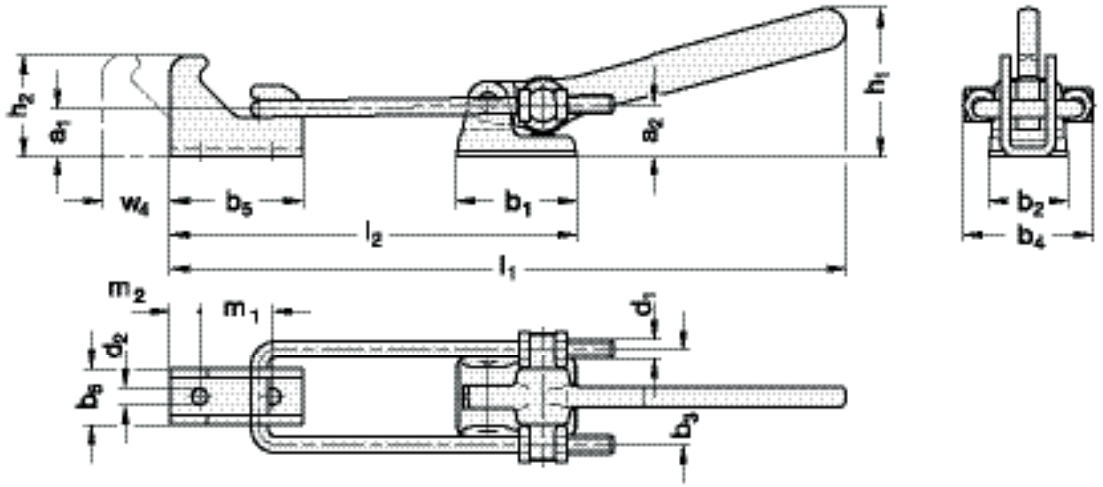
GN 854

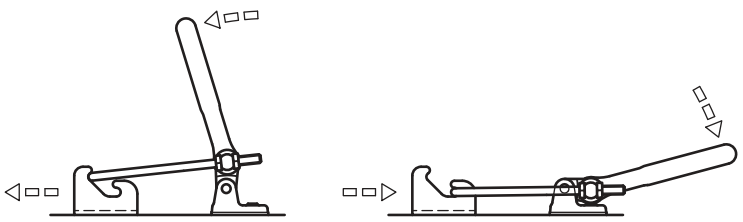
Latch type toggle clamps

Coding 1



Coding 2





GN 854

Description	Size	FH in N	a1	a2	b1	b2	b3	b4	b5	b6	d1	d2	d3	h1 ≈	h2	l1 ≈	l2 min.	m1	m2	r	t	w1	w2	w3 ≈	w4 ≈	⚖
GN 854-1500-1-T2S	1500	15000	26	28	65	43	52	70	72	30	M 10	8.5	18	55	55	220	186	40	16	120	30	10.5	28	25	40	1200
GN 854-1500-2-T2S	1500	15000	26	28	65	43	52	70	72	30	M 10	8.5	-	81	55	334	186	40	16	120	-	10.5	28	25	40	1331

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GN 855

C-clamps

SPECIFICATION

Type
- Type **C2**: for screwing

Clamp / operating handle
Steel
- forged
- blackened

Bearing flange
Sheet steel, blackened

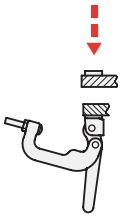
Spindle assembly
Steel, blackened

Counter plate / bearing pin
Steel, blackened

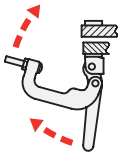
INFORMATION

GN 855 C-clamps feature an especially robust, sturdy and compact design, allowing them to be used under severe and demanding conditions, e.g. higher temperatures, dust, mist, etc.
The C-clamps are normally installed and mounted at the clamping point. The counter plate (supplied loose) has a ball socket and is designed for attaching to the counter piece to be clamped. In connection with the ball-type bolt, this configuration ensures the precise positioning of the latch clamp.
If the counter plate is not to remain at the counter piece to be clamped, the clamping bracket may alternatively also be used to hold GN 802 (see page 1626) toggle clamp spindle assemblies which have a pendulum-type bearing surface.

DESCRIPTION OF FUNCTION



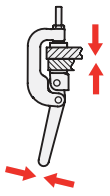
Place the pieces to be clamped into the clamping position, e.g. close the lid or place the piece to be clamped on top.



Then move the clamping bracket and the operating handle of the C-clamp upwards.

Now move the clamping bracket forward such that the clamping bolt is located in the ball socket of the counter plate.

Move the operating handle downwards until the clamping force has exceeded the dead point.



When closed, the C-clamp now holds its position on its own.

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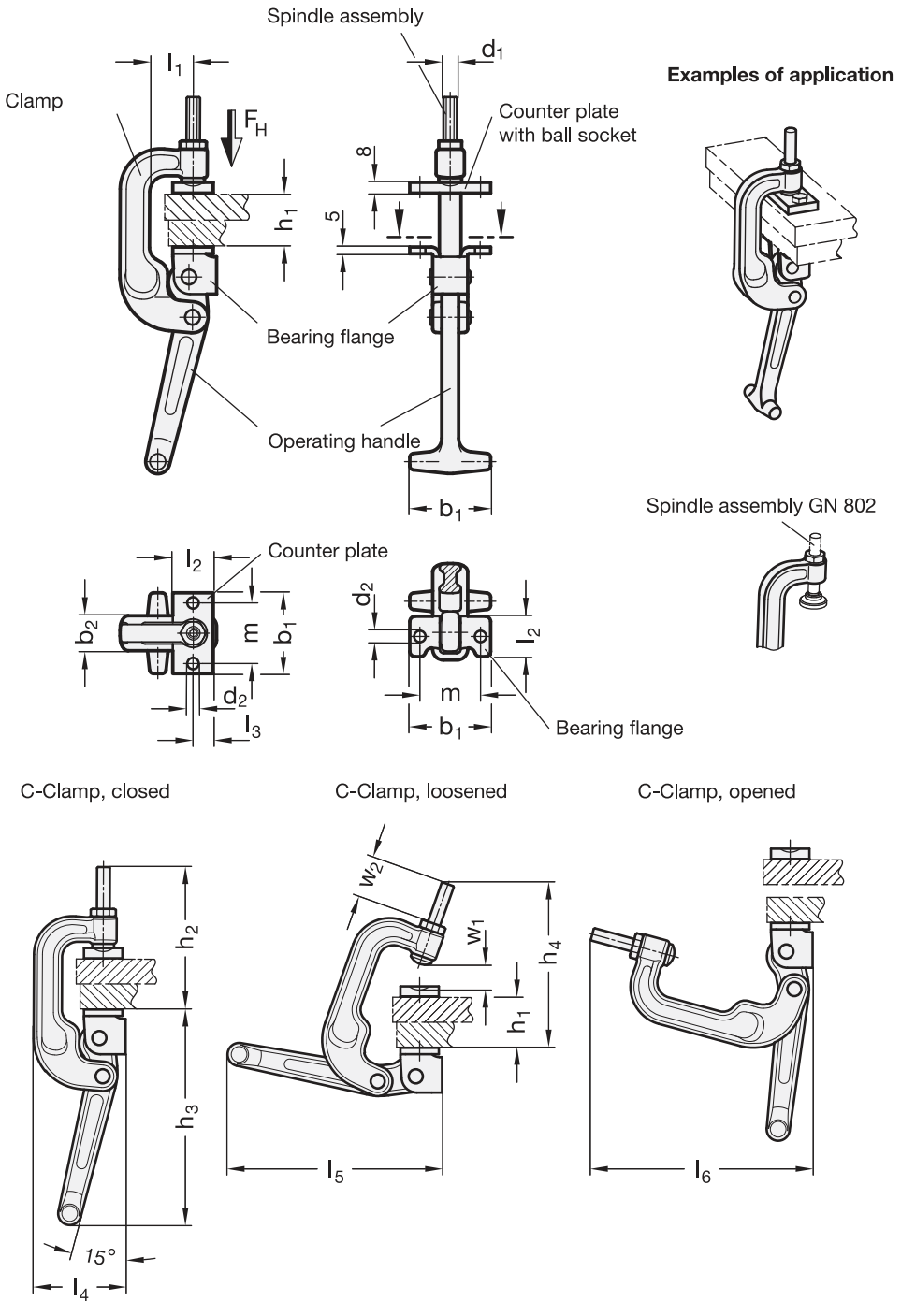

GN 855

Description	h1 max.	l1	FH in N	b1	b2	d1	d2	h2	h3	h4	l2	l3	l4	l5	l6	m	w1	w2	⚖
GN 855-40-32-C2	40	32	15000	60	26	M 10	8.5	111	168	129	30	18	72	168	173	45	19	32	1000
GN 855-75-32-C2	75	32	15000	60	26	M 10	8.5	146	168	164	30	18	72	168	207	45	19	32	1000

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GN 858

Latch type toggle clamps
with locking mechanism

SPECIFICATION

Type
- Type **T5**: with fixing holes (d2)

Steel forged / precision die casting
chemically blackened

Bearing pins steel
hardened and ground

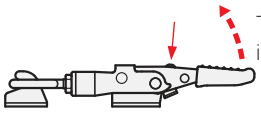
All moving parts
lubricated with special grease

Hand grip
High quality, oil resistant red plastic

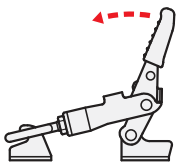
INFORMATION

GN 858 latch type toggle clamps are used when very high retaining forces are required.
The latch type clamp also features a locking mechanism which prevents the inadvertent or vibration-induced opening of the clamp.
Another benefit of this clamp is the ability to operate it with one hand.
Catch is included.
- General information for toggle clamps (see page 1560)

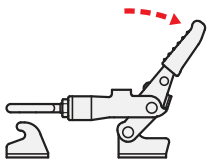
DESCRIPTION OF FUNCTION (FOR ONE-HAND OPERATION)



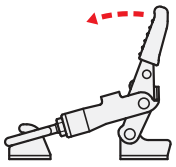
To **release**, move the locking mechanism in the direction of the arrow.



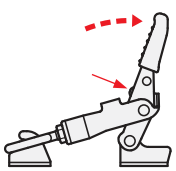
Lift the lever arm until the latch bolt is disengaged from the catch.



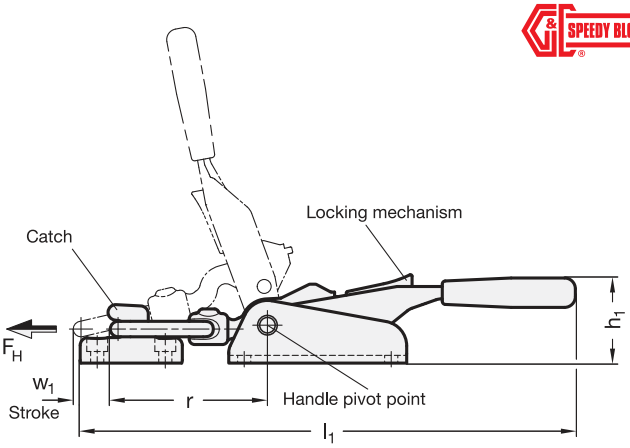
Moving the lever arm back will lift the latch bolt and release the catch (one-hand operation).

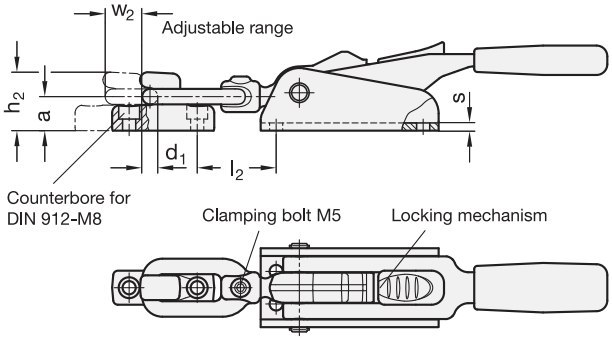


For **clamping**, lift the lever arm until the latch bolt rests against the catch.

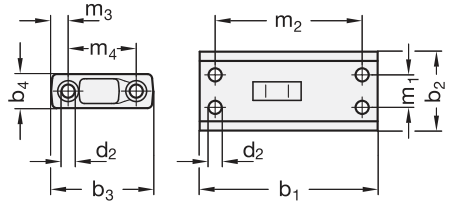


The latch bolt engages with the catch if the locking mechanism is moved upward during clamping.
When clamping in the end position, the mechanism locks automatically through spring tension.





Dimensions of installation (Top view)



GN 858

Description	Size	FH in N	a	b1	b2	b3	b4	d1	d2	h1	h2	l1 ≈	l2 min.	m1	m2	m3	m4	r ≈	s	w1	w2	⚖
GN 858-1400-T5	1400	15000	22	115	51.5	66	22	10	8.5	57	38	318	47	21	95	11	44	97.5	5	24	22	1633

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GN 861

Heavy duty pneumatic toggle clamps

with magnetic piston

SPECIFICATION

Type
- Type **EP**: solid clamping arm

Coding
- Coding **M**: Magnetic piston

Base
cast steel
black lacquered

other parts
Steel St 60
zinc plated, blue passivated

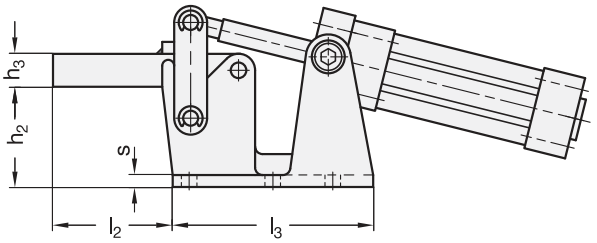
Bearing pins
case hardened

Double-action air cylinder
with adjustable cushioning
max. pressure 6 bar

All moving parts
lubricated with special grease

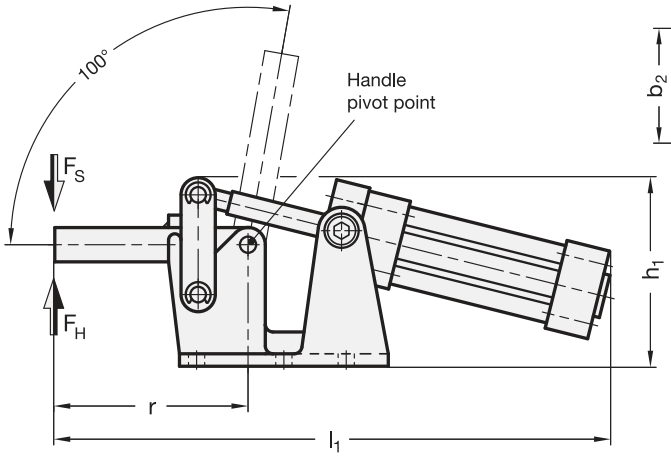
INFORMATION

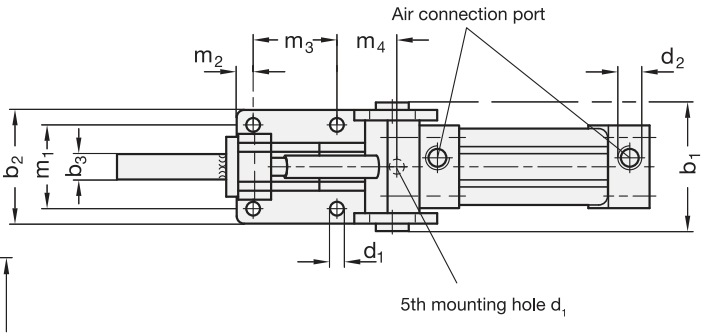
GN 861 heavy duty pneumatic toggle clamps have been constructed in such a way as to make them easy to unmount. The bearing pins are axially fixed with circlips. This allows the clamping arm to be modified to suit any particular application.
To ensure an extended life of the mechanical parts as well as the air cylinder the operating pressure should not exceed 6 bar. In addition a lubrication control unit should be fitted in the air line.
GN 861 pneumatic toggle clamps are available as version M (magnetic piston). In conjunction with a GN 896.3 (see page 1622) proximity switch the piston position is sensed and the generated signal can be used in sequence control systems.
- General information for toggle clamps (see page 1560)

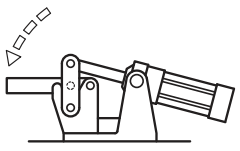


ACCESSORY

- GN 896.3 proximity switch (see page 1622)







GN 861

Description	Size	FH in N	FS in N	b1	b2	b3	d1	d2	Inside Ø connection tube	h1 ≈	h2	h3	l1 ≈	l2 ≈	l3 ≈	m1	m2	m3	m4	r ≈	s	⚖
GN 861-1000-EP-M	1000	10000	2500	102	90	20	10.5	G 1/4	8	145	80	25	410	90	155	65	12.5	65	48	140	13	6000
GN 861-2000-EP-M	2000	20000	3600	112	100	20	10.5	G 3/8	10	171.5	90	35	487	113	176	70	15	70	56	172	13	7400

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Pneumatic toggle clamps

SPECIFICATION

Types

- Type **AP3**: U-bar version, with two flanged washers
- Type **CP3**: U-bar version, with two flanged washers and GN 708.1 spindle assembly (see page 1625)
- Type **EP3**: Solid bar version, with clasp

Coding

- Coding **M**: Magnetic piston (for size 200 and up)

Parts in sheet metal
case-hardened steel C10
zinc plated, blue passivated

Bearing pins
hardened

Bearing rivets (for size 200 and up)
case-hardened

Air cylinder bearing pins
case-hardened

Double-action air cylinder
max. pressure 6 bar

All moving parts
lubricated with special grease

Spindle assembly GN 708.1 , Type A (see page 1625)

- Steel, zinc plated
- Rubber tip 85 Shore A

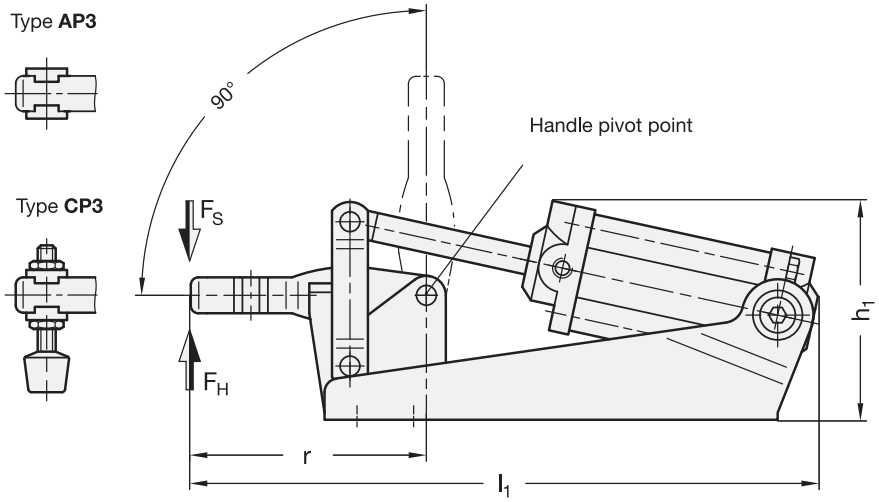
INFORMATION

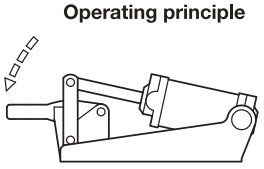
The clamping principle of GN 860 pneumatic toggle clamps is identical in construction and dimensions to the manually operated GN 810 vertical toggle clamps (see page 1562).
To ensure an extended life of the mechanical parts as well as the air cylinders the operating pressure should not exceed 6 bar.
GN 860 pneumatic toggle clamps are also available in sizes 200 and up as a version M (magnetic piston). In conjunction with GN 896.1 / GN 896.2 (see page 1622) proximity switches, the piston position can be sensed and the generated impulse can be used to transmit an electrical signal.

- General information for toggle clamps (see page 1560)

ACCESSORY

- Spindle assemblies (see page 1623)
- GN 801 clamp mounts for toggle clamps (for Type AP3) (see page 1629)
- GN 809 clamp mounts for toggle clamps (for Type EP3) (see page 1630)
- GN 896.1 proximity switch (see page 1622)
- GN 896.2 proximity switch (see page 1622)





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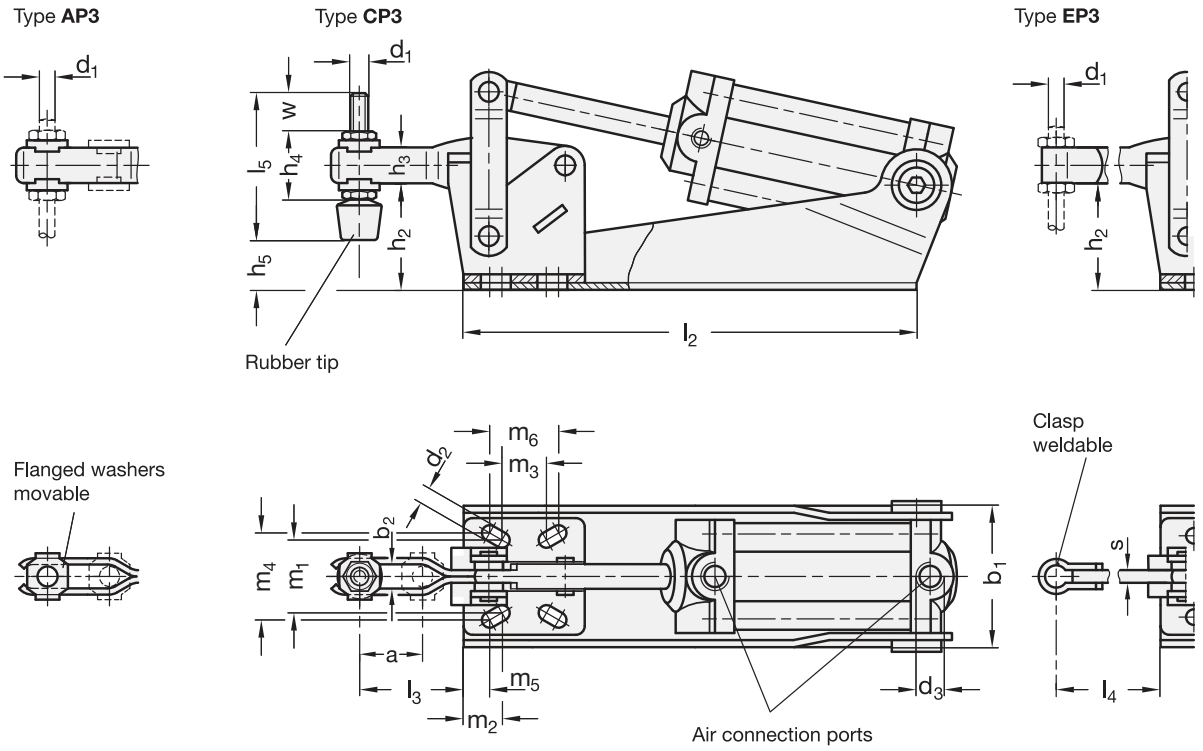

GN 860

Description	Size	FH in N	FS in N	a ≈	b1	b2	d1	d2	d3	Inside Ø connection tube	h1 ≈	h2	h3	h4	h5	l1 ≈	l2 ≈	l3 ≈	l4 ≈ max.	l5	m1	m2	m3	m4	m5	m6	r ≈	s	w	⚖
GN 860-70-AP3	70	700	480	20	42	5.5	M 5	4.5	G 1/8	4	51	21	11	-	-	163	92	33	-	-	24	7	15	24	6.5	16	62.5	-	-	499
GN 860-125-AP3	125	1600	600	28	47.5	6.5	M 6	5.5	G 1/8	4	70.5	30	14	-	-	200.5	150	40	-	-	27	11.25	12.5	29	8	19	79	-	-	727
GN 860-200-AP3	200	2200	800	40	53	8.5	M 8	6.5	G 1/8	4	79	36	18	-	-	247	160	59	-	-	32	12	19	32	11.5	20	104	-	-	1220
GN 860-300-AP3	300	2700	1300	42	74	10.5	M 10	8.5	G 1/4	6	98	48	20	-	-	305	195.5	66	-	-	45	10.5	29	46	8.5	32	122	-	-	1600
GN 860-400-AP3	400	3000	1350	66	74	12.5	M 12	8.5	G 1/4	8	107.5	51	22	-	-	361	216	94	-	-	45	10	32	45	10	32	156	-	-	3265
GN 860-70-CP3	70	700	480	20	42	5.5	M 5	4.5	G 1/8	4	51	21	11	19	6.3	163	92	33	-	45	24	7	15	24	6.5	16	62.5	-	15	500
GN 860-125-CP3	125	1600	600	28	47.5	6.5	M 6	5.5	G 1/8	4	70.5	30	14	23.5	13.5	200.5	150	40	-	55	27	11.25	12.5	29	8	19	79	-	19.5	700
GN 860-200-CP3	200	2200	800	40	53	8.5	M 8	6.5	G 1/8	4	79	36	18	30	12.5	247	160	59	-	68	32	12	19	32	11.5	20	104	-	20	1220
GN 860-300-CP3	300	2700	1300	42	74	10.5	M 10	8.5	G 1/4	6	98	48	20	35	20	305	195.5	66	-	77	45	10.5	29	46	8.5	32	122	-	21	2200
GN 860-400-CP3	400	3000	1350	66	74	12.5	M 12	8.5	G 1/4	8	107.5	51	22	39	18.5	361	216	94	-	100	45	10	32	45	10	32	156	-	37	3376
GN 860-70-EP3	70	700	480	-	42	-	M 5	4.5	G 1/8	4	51	21	11	-	-	163	92	-	41	-	24	7	15	24	6.5	16	62.5	4	-	400
GN 860-125-EP3	125	1600	600	-	47.5	-	M 6	5.5	G 1/8	4	70.5	30	14	-	-	200.5	150	-	54	-	27	11.25	12.5	29	8	19	79	5	-	723
GN 860-200-EP3	200	2200	800	-	53	-	M 8	6.5	G 1/8	4	79	36	18	-	-	247	160	-	75	-	32	12	19	32	11.5	20	104	6	-	1225
GN 860-300-EP3	300	2700	1300	-	74	-	M 10	8.5	G 1/4	6	98	48	20	-	-	305	195.5	-	85	-	45	10.5	29	46	8.5	32	122	8	-	2350
GN 860-400-EP3	400	3000	1350	-	74	-	M 12	8.5	G 1/4	8	107.5	51	22	-	-	361	216	-	120	-	45	10	32	45	10	32	156	10	-	3250
GN 860-200-AP3-M	200	2200	800	40	53	8.5	M8	6.5	G 1/8	4	79	36	18	-	-	247	160	59	-	-	32	12	19	32	11.5	20	104	-	-	1225
GN 860-300-AP3-M	300	2700	1300	42	74	10.5	M10	8.5	G 1/4	6	98	48	20	-	-	305	195.5	66	-	-	45	10.5	29	46	8.5	32	122	-	-	2148
GN 860-400-AP3-M	400	3000	1350	66	74	12.5	M12	8.5	G 1/4	8	107.5	51	22	-	-	361	216	94	-	-	45	10	32	45	10	32	156	-	-	3235
GN 860-200-CP3-M	200	2200	800	40	53	8.5	M8	6.5	G 1/8	4	79	36	18	30	12.5	247	160	59	-	68	32	12	19	32	11.5	20	104	-	20	1250
GN 860-300-CP3-M	300	2700	1300	42	74	10.5	M10	8.5	G 1/4	6	98	48	20	35	20	305	195.5	66	-	77	45	10.5	29	46	8.5	32	122	-	21	2218
GN 860-400-CP3-M	400	3000	1350	66	74	12.5	M12	8.5	G 1/4	8	107.5	51	22	39	18.5	361	216	94	-	100	45	10	32	45	10	32	156	-	37	3346
GN 860-200-EP3-M	200	2200	800	-	53	-	M8	6.5	G 1/8	4	79	36	18	-	-	247	160	-	75	-	32	12	19	32	11.5	20	104	6	-	1245
GN 860-300-EP3-M	300	2700	1300	-	74	-	M10	8.5	G 1/4	6	98	48	20	-	-	305	195.5	-	85	-	45	10.5	29	46	8.5	32	122	8	-	2160
GN 860-400-EP3-M	400	3000	1350	-	74	-	M12	8.5	G 1/4	8	107.5	51	22	-	-	361	216	-	120	-	45	10	32	45	10	32	156	10	-	3226

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Pneumatic toggle clamps

with angled base

SPECIFICATION

Types

- Type **APV3**: U-bar version, with two flanged washers
- Type **CPV3**: U-bar version, with two flanged washers and GN 708.1 spindle assembly (see page 1625)
- Type **EPV3**: Solid bar version, with clasp

Coding

- Coding **M**: Magnetic piston

Parts in sheet metal
Case-hardened Steel C10
zinc plated, blue passivated

Bearing pins hardened

Bearing rivets case-hardened

Air cylinder bearing pins
case-hardened

Double-action air cylinder
max. pressure 6 bar

All moving parts
lubricated with special grease

Spindle assembly GN 708.1 , Type A (see page 1625)

- Steel, zinc plated
- Rubber tip 85 Shore A

INFORMATION

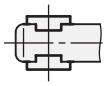
The clamping principle of GN 862 pneumatic toggle clamps is identical in construction and dimensions to the manually operated GN 812 vertical toggle clamps (see page 1572).
To ensure an extended life of the mechanical parts as well as the air cylinders the operating pressure should not exceed 6 bar.
GN 862 pneumatic toggle clamps are also available in sizes 200 and up as a version M (magnetic piston). In conjunction with a GN 896.2 (see page 1622) proximity switch, the piston position can be sensed and the generated impulse can be used to transmit an electrical signal.

- General information for toggle clamps (see page 1560)

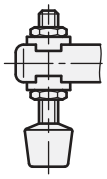
ACCESSORY

- Spindle assemblies (see page 1623)
- GN 801 clamp mounts for toggle clamps (for Type APV3) (see page 1629)
- GN 809 clamp mounts for toggle clamps (for Type EPV3) (see page 1630)
- GN 896.2 proximity switch (see page 1622)

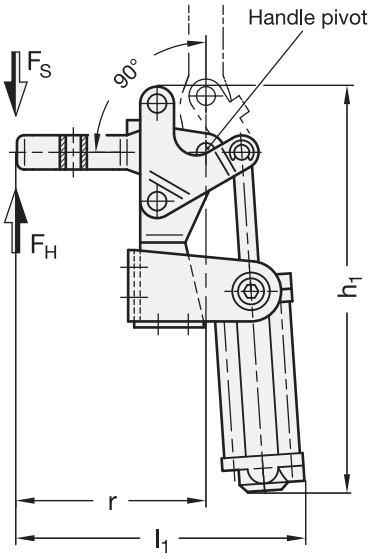
Type **APV3**



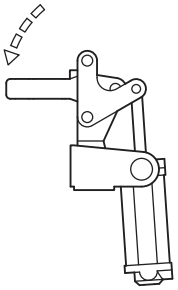
Type **CPV3**



Type **EPV3**



Operating principle



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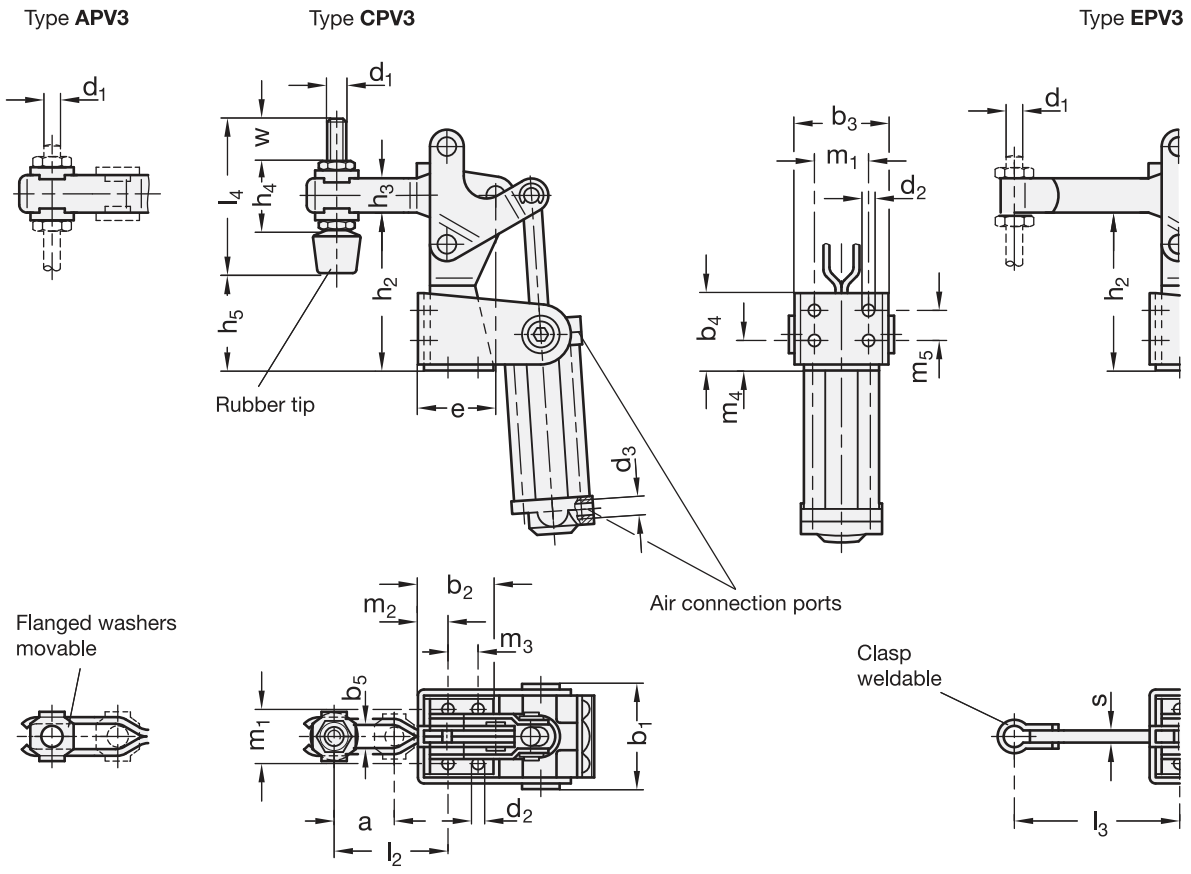

GN 862

Description	Size	FH in N	FS in N	a ≈	b1	b2	b3	b4	b5	d1	d2	d3	Inside Ø connection tube	e
GN 862-200-APV3	200	1600	970	34	59.5	38.5	51	35	8.5	M 8	6.5	G 1/8	4	39.5
GN 862-300-APV3	300	2400	1050	42	68.5	53	60.5	50	10.3	M 10	8.5	G 1/4	6	50.5
GN 862-200-CPV3	200	1600	970	34	59.5	38.5	51	35	8.5	M 8	6.5	G 1/8	4	39.5
GN 862-300-CPV3	300	2400	1050	42	68.5	53	60.5	50	10.3	M 10	8.5	G 1/4	6	50.5
GN 862-200-EPV3	200	1600	970	-	59.5	38.5	51	35	-	M 8	6.5	G 1/8	4	39.5
GN 862-300-EPV3	300	2400	1050	-	68.5	53	60.5	50	-	M 10	8.5	G 1/4	6	50.5
GN 862-200-APV3-M	200	1600	970	34	59.5	38.5	51	35	8.5	M8	6.5	G 1/8	4	39.5
GN 862-300-APV3-M	300	2400	1050	42	68.5	53	60.5	50	10.3	M10	8.5	G 1/4	6	50.5
GN 862-200-CPV3-M	200	1600	970	34	59.5	38.5	51	35	8.5	M8	6.5	G 1/8	4	39.5
GN 862-300-CPV3-M	300	2400	1050	42	68.5	53	60.5	50	10.3	M10	8.5	G 1/4	6	50.5
GN 862-200-EPV3-M	200	1600	970	-	59.5	38.5	51	35	-	M8	6.5	G 1/8	4	39.5
GN 862-300-EPV3-M	300	2400	1050	-	68.5	53	60.5	50	-	M10	8.5	G 1/4	6	50.5

GN 862

Description	h1 ≈	h2	h3	h4	h5	l1 ≈	l2 ≈	l3 max.	l4	m1	m2	m3	m4	m5	r ≈	s	w	⚖
GN 862-200-APV3	210	78	17	-	-	150	59	-	-	26	14.5	16	11	16	98	-	-	1147
GN 862-300-APV3	258	108	20	-	-	187	74	-	-	30	16.5	28	12	30	122	-	-	2000
GN 862-200-CPV3	210	78	17	29	54	150	59	-	68	26	14.5	16	11	16	98	-	21	1147
GN 862-300-CPV3	258	108	20	35	79.5	187	74	-	77	30	16.5	28	12	30	122	-	21	2090
GN 862-200-EPV3	210	78	17	-	-	150	-	80	-	-	14.5	16	11	16	98	6	-	1150
GN 862-300-EPV3	258	108	20	-	-	187	-	104	-	-	16.5	28	12	30	122	8	-	2025
GN 862-200-APV3-M	210	78	17	-	-	150	59	-	-	26	14.5	16	11	16	98	-	-	1100
GN 862-300-APV3-M	258	108	20	-	-	187	74	-	-	30	16.5	28	12	30	122	-	-	2015
GN 862-200-CPV3-M	210	78	17	29	54	150	59	-	68	26	14.5	16	11	16	98	-	21	1147
GN 862-300-CPV3-M	258	108	20	35	79.5	187	74	-	77	30	16.5	28	12	30	122	-	21	2100
GN 862-200-EPV3-M	210	78	17	-	-	150	-	80	-	-	14.5	16	11	16	98	6	-	1100
GN 862-300-EPV3-M	258	108	20	-	-	187	-	104	-	-	16.5	28	12	30	122	8	-	2030

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Pneumatic toggle clamps

with additional manual operation

SPECIFICATION

Types

- Type **APV3S**: U-bar version, with two flanged washers
- Type **CPV3S**: U-bar version, with two flanged washers and GN 708.1 spindle assembly (see page 1625)
- Type **EPV3S**: Solid bar version, with clasp

Coding

- Coding **M**: Magnetic piston

Parts in sheet metal
Case-hardened Steel C10
zinc plated, blue passivated

Bearing pins hardened

Bearing rivets case-hardened

Air cylinder bearing pins
case-hardened

Double-action air cylinder
max. pressure 6 bar

All moving parts
lubricated with special grease

Spindle assembly GN 708.1 , Type A (see page 1625)

- Steel, zinc plated
- Rubber tip 85 Shore A

INFORMATION

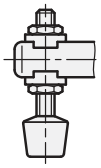
GN 862.1 pneumatic toggle clamps are built from the same construction as GN 862 (see page 1616).
The special features of these clamps are that they can be mounted in two different planes, and they can also be operated manually via the grip handle. For example, they can individually be manually closed, and then all clamps can be opened at once via the pneumatic function.
To ensure an extended life of the mechanical parts as well as the air cylinders the operating pressure should not exceed 6 bar.
GN 862.1 pneumatic toggle clamps are also available as a version M (magnetic piston). In conjunction with a GN 896.2 (see page 1622) proximity switch, the piston position can be sensed and the generated impulse can be used to transmit an electrical signal.

- General information for toggle clamps (see page 1560)

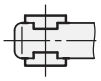
ACCESSORY

- Spindle assemblies (see page 1623)
- GN 801 clamp mounts for toggle clamps (for Type APV3S) (see page 1629)
- GN 809 clamp mounts for toggle clamps (for Type EPV3S) (see page 1630)
- GN 896.2 proximity switch (see page 1622)

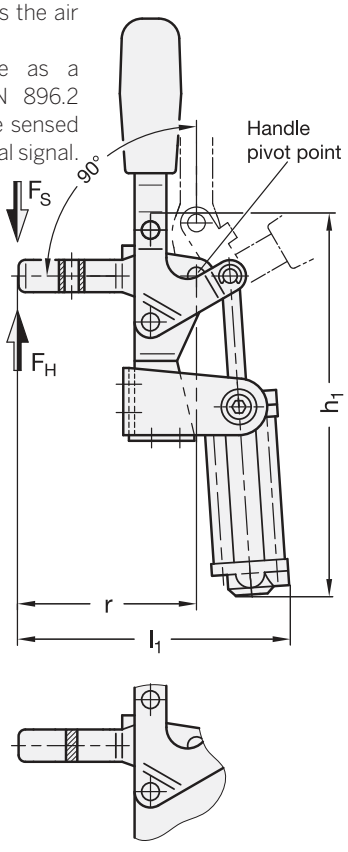
Type **CPV3S**



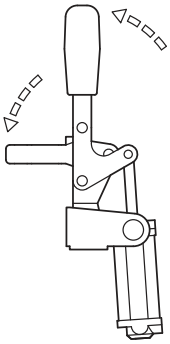
Type **APV3S**



Type **EPV3S**



Operating principle



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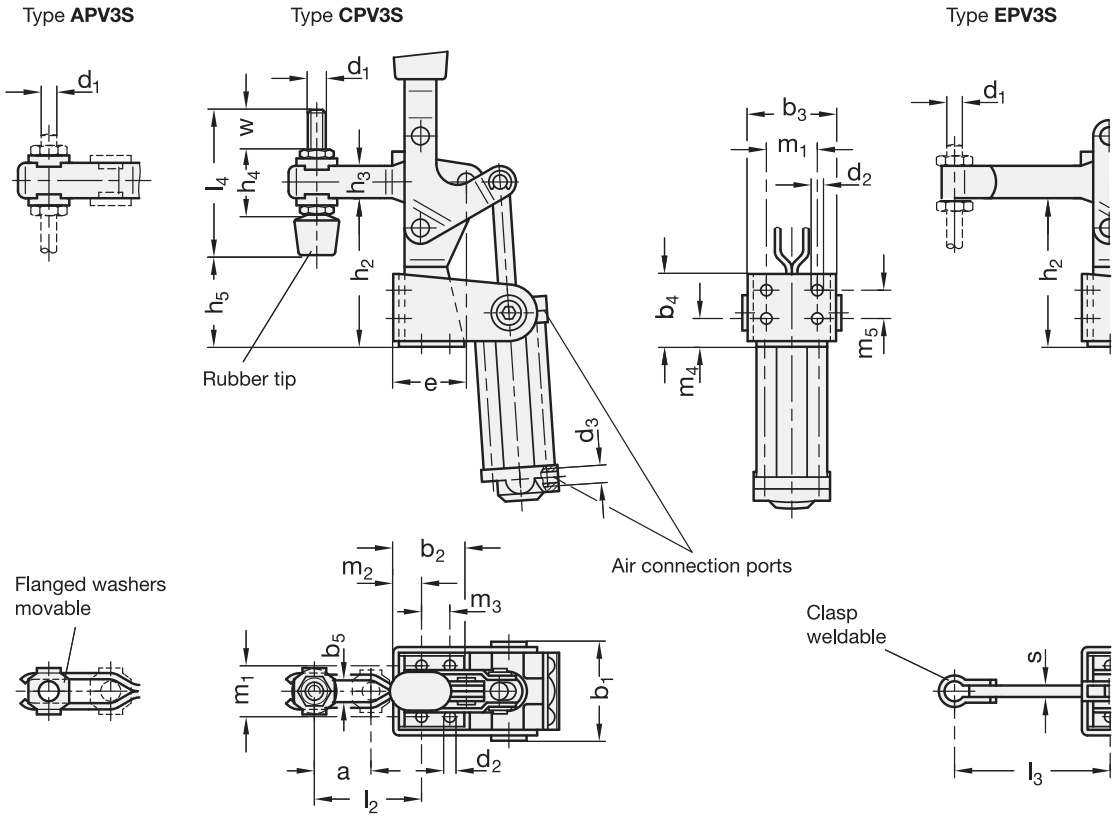
GN 862.1 | Pneumatic toggle clamps



GN 862.1

Description	Size	FH in N	FS in N	a	b1	b2	b3	b4	b5	d1	d2	d3	Inside Ø connection tube	e
GN 862.1-200-APV3S	200	1600	970	34	59.5	38.5	51	35	8.5	M 8	6.5	G 1/8	4	39.5
GN 862.1-300-APV3S	300	2400	1050	42	68.5	53	60.5	50	10.3	M 10	8.5	G 1/4	6	50.5
GN 862.1-200-CPV3S	200	1600	970	34	59.5	38.5	51	35	8.5	M 8	6.5	G 1/8	4	39.5
GN 862.1-300-CPV3S	300	2400	1050	42	68.5	53	60.5	50	10.3	M 10	8.5	G 1/4	6	50.5
GN 862.1-200-EPV3S	200	1600	970	-	59.5	38.5	51	35	-	M 8	6.5	G 1/8	4	39.5
GN 862.1-300-EPV3S	300	2400	1050	-	68.5	53	60.5	50	-	M 10	8.5	G 1/4	6	50.5
GN 862.1-200-APV3S-M	200	1600	970	34	59.5	38.5	51	35	8.5	M 8	6.5	G 1/8	4	39.5
GN 862.1-300-APV3S-M	300	2400	1050	42	68.5	53	60.5	50	10.3	M 10	8.5	G 1/4	6	50.5
GN 862.1-200-CPV3S-M	200	1600	970	34	59.5	38.5	51	35	8.5	M 8	6.5	G 1/8	4	39.5
GN 862.1-300-CPV3S-M	300	2400	1050	42	68.5	53	60.5	50	10.3	M 10	8.5	G 1/4	6	50.5
GN 862.1-200-EPV3S-M	200	1600	970	-	59.5	38.5	51	35	-	M 8	6.5	G 1/8	4	39.5
GN 862.1-300-EPV3S-M	300	2400	1050	-	68.5	53	60.5	50	-	M 10	8.5	G 1/4	6	50.5

GN 862.1

Description	h1	h2	h3	h4 ≈	h5	l1 ≈	l2 ≈	l3 ≈ max.	l4	m1	m2	m3	m4	m5	r ≈	s	w	⚖
GN 862.1-200-APV3S	296	78	17	-	-	150	59	-	-	26	14.5	16	11	16	98	-	-	1218
GN 862.1-300-APV3S	360	108	20	-	-	187	74	-	-	30	16.5	28	12	30	122	-	-	2123
GN 862.1-200-CPV3S	296	78	17	29	54	150	59	-	68	26	14.5	16	11	16	98	-	21	1253
GN 862.1-300-CPV3S	360	108	20	35	79.5	187	74	-	77	30	16.5	28	12	30	122	-	21	2180
GN 862.1-200-EPV3S	296	78	17	-	-	150	-	80	-	-	14.5	16	11	16	98	6	-	1209
GN 862.1-300-EPV3S	360	108	20	-	-	187	-	104	-	-	16.5	28	12	30	122	8	-	2140
GN 862.1-200-APV3S-M	296	78	17	-	-	150	59	-	-	26	14.5	16	11	16	98	-	-	1250
GN 862.1-300-APV3S-M	360	108	20	-	-	187	74	-	-	30	16.5	28	12	30	122	-	-	2116
GN 862.1-200-CPV3S-M	296	78	17	29	54	150	59	-	68	26	14.5	16	11	16	98	-	21	1156
GN 862.1-300-CPV3S-M	360	108	20	35	79.5	187	74	-	77	30	16.5	28	12	30	122	-	21	2186
GN 862.1-200-EPV3S-M	296	78	17	-	-	150	-	80	-	-	14.5	16	11	16	98	6	-	1256
GN 862.1-300-EPV3S-M	360	108	20	-	-	187	-	104	-	-	16.5	28	12	30	122	8	-	2150

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GN 863

Heavy duty pneumatic toggle clamps

with magnetic piston

SPECIFICATION

Type
- Type **EPV**: solid clamping arm

Coding
- Coding **M**: Magnetic piston

Body
cast steel
black lacquered

other parts
Steel St 60
zinc plated, blue passivated

Bearing pins
case-hardened

Double-action air cylinder
with adjustable cushioning
max. pressure 6 bar

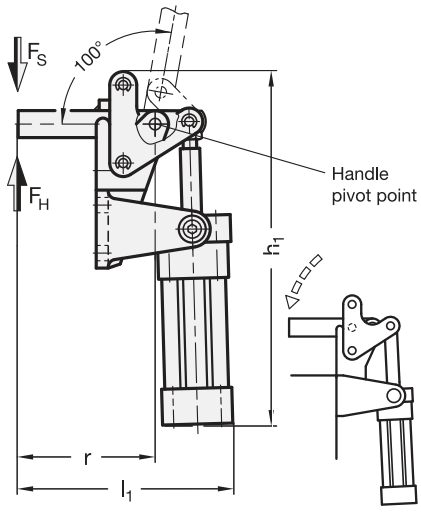
All moving parts
lubricated with special grease

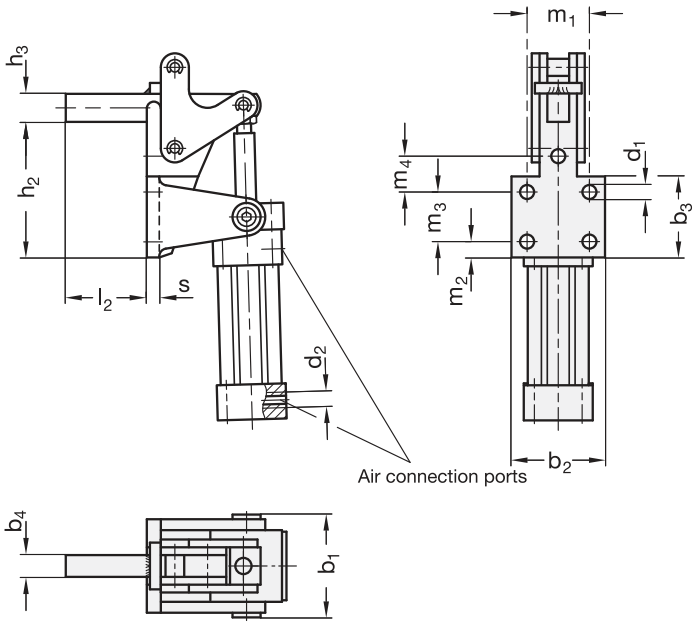
INFORMATION

GN 863 heavy duty pneumatic toggle clamps have been constructed in such a way as to make them easy to unmount: The bearing pins are axially fixed with circlips. This allows the clamping arm to be modified once it is dismantled, to suit any particular application.
To ensure an extended life of the mechanical parts as well as the air cylinder the operating pressure should not exceed 6 bar. In addition a lubrication control unit should be fitted in the air line.
GN 863 pneumatic toggle clamps are available as version M (magnetic piston). In conjunction with a GN 896.3 (see page 1622) proximity switch the piston position is sensed and the generated signal can be used in sequence control systems.
- General information for toggle clamps (see page 1560)

ACCESSORY

- GN 896.3 proximity switch (see page 1622)





GN 863

Description	Size	F_H in N	F_S in N	b_1 ≈	b_2	b_3	b_4	d_1	d_2	Inside Ø connection tube	h_1 ≈	h_2	h_3	l_1 ≈	l_2 ≈	m_1	m_2	m_3	m_4	r	s	⚖
GN 863-1000-EPV-M	1000	10000	3250	102	90	80	20	10.5	G 1/4	8	355	132.5	25	217.5	80	50	12.5	50	-	144	13	5500
GN 863-2000-EPV-M	2000	20000	5600	112	100	90	20	12.5	G 3/8	10	425	161	35	246.5	100	54	12.5	58	45	168.5	14	8355

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GN 890

Pneumatic toggle clamps

for push-pull clamping

SPECIFICATION

Type

- Type **SP3**: Body, Steel forged

Coding

- Coding **M**: Magnetic piston (for size 360 and up)

Body
Steel

- forged
- chemically blackened

Parts in sheet metal
Case-hardened Steel C10
zinc plated, blue passivated

Tapped connecting rod
Steel St 37
zinc plated, blue passivated

Bearing pins (Bearing rivets)
case-hardened

Double-action air cylinder
max. pressure 6 bar

All moving parts
lubricated with special grease

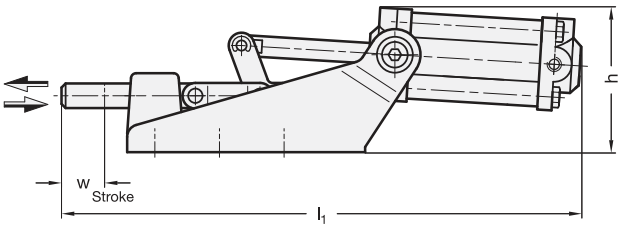
INFORMATION

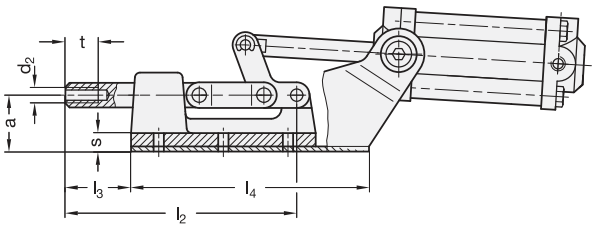
The working principle of the GN 890 pneumatic toggle clamps is identical in construction and dimensions to the manual toggle clamps GN 842 (see page 1589). To ensure an extended life of the mechanical parts as well as the air cylinders the operating pressure should not exceed 6 bar.
In addition a lubrication control unit should be fitted in the air line. The sturdy mounting frame for the cylinder has been designed to avoid the trunions of the cylinder to protrude over the frame.
GN 890 pneumatic toggle clamps are also available in sizes 360 and up as a version M (magnetic piston). In conjunction with GN 896.1 (see page 1622) / GN 896.2 (see page 1622) proximity switches, the piston position can be sensed and the generated impulse can be used to transmit an electrical signal.

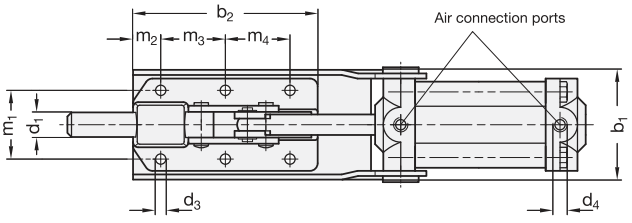
- General information for toggle clamps (see page 1560)

ACCESSORY

- GN 896.1 proximity switch (see page 1622)
- GN 896.2 proximity switch (see page 1622)







Operating principle

GN 890

Description	Size	F_H in N	F_S in N	a	b_1	b_2	d_1	d_2	d_3	d_4	Inside Ø connection tube	h	l_1	l_2	l_3	l_4	m_1	m_2	m_3	m_4	s ≈	t	w	⚖
GN 890-70-SP3	70	1200	550	14	42	64	8.5	M 6	4.3	G 1/8	4	52	171	78.5	20	64	26	13	26	-	8	12	12	556
GN 890-360-SP3	360	5600	1000	27.5	55	90	12	M 8	5.5	G 1/8	4	70	260	113	32	116	33.5	30	36.5	-	9.5	16	21	1285
GN 890-1100-SP3	1100	16000	1850	28	66	133	16	M 10	8.5	G 1/4	6	88	355	171	49	167	41	15	35	41	12	18	31	2400
GN 890-2100-SP3	2100	25000	3000	38.5	80	177	20	M 12	8.5	G 1/4	8	100	469	222	61.5	231	50	35	50	50	13	22	45	4830
GN 890-360-SP3-M	360	5600	1000	27.5	55	90	12	M 8	5.5	G 1/8	4	70	260	113	32	116	33.5	30	36.5	-	9.5	16	21	1400
GN 890-1100-SP3-M	1100	16000	1850	28	66	133	16	M 10	8.5	G 1/4	6	88	355	171	49	167	41	15	35	41	12	18	31	2440
GN 890-2100-SP3-M	2100	25000	3000	38.5	80	177	20	M 12	8.5	G 1/4	8	100	469	222	61.5	231	50	35	50	50	13	22	45	4800

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Proximity switch

with mounting bracket

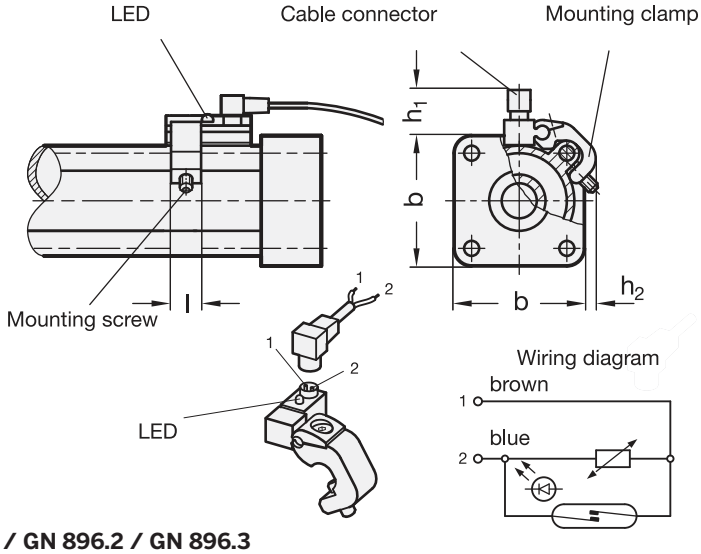
SPECIFICATION

Electric cable PVC 2 wires, 2.5 m.
If used on DC brown wire to be connected to +,
for the diode to work.

INFORMATION

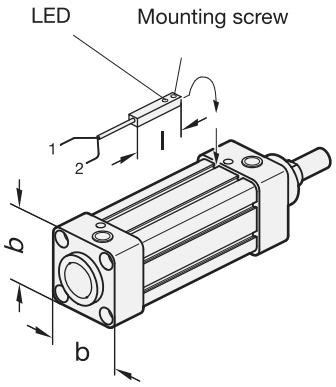
With GN 896.1, GN 896.2 and GN 896.3 proximity switches the pneumatically operated clamps can emit control signals. To do this the clamps must be assembled with a special cylinder with magnetic piston which will cause the electric contacts in the REED switch to close.
The proximity switches with their mounting brackets can be set anywhere along the full stroke length of the cylinder.

Mounting **GN 896.1 / GN 896.2**



Mounting **GN 896.3**

Insert the thinner part of the proximity switch into the provided slot, turn 90° and affix inside the slot via the mounting screw.



GN 896.1 / GN 896.2 / GN 896.3

Pneumatically operated clamp	Proximity switch	b	h1 ≈	h2 ≈	l	⚖
GN 860-200-AP3-M	GN 896.2	44	24	10	14	60
GN 860-200-EP3-M	GN 896.2	44	24	10	14	60
GN 860-300-AP3-M	GN 896.2	50	27	11	14	60
GN 860-300-EP3-M	GN 896.2	50	27	11	14	60
GN 860-400-AP3-M	GN 896.1	62	24	10	14	108
GN 860-400-EP3-M	GN 896.1	62	24	10	14	108
GN 861-1000-EP-M	GN 896.3	65	-	-	30	34
GN 861-2000-EP-M	GN 896.3	75	-	-	30	34
GN 862-200-APV3-M	GN 896.2	44	24	10	14	60
GN 862-200-EPV3-M	GN 896.2	44	24	10	14	60
GN 862-300-APV3-M	GN 896.2	50	27	11	14	60
GN 862-300-EPV3-M	GN 896.2	50	27	11	14	60
GN 862.1-200-APV3S-M	GN 896.2	44	24	10	14	60
GN 862.1-200-EPV3S-M	GN 896.2	44	24	10	14	60
GN 862.1-300-APV3S-M	GN 896.2	50	27	11	14	60
GN 862.1-300-EPV3S-M	GN 896.2	50	27	11	14	60
GN 863-1000-EPV-M	GN 896.3	65	-	-	30	34
GN 863-2000-EPV-M	GN 896.3	75	-	-	30	34
GN 890-360-SP3-M	GN 896.2	44	24	10	14	60
GN 890-1100-SP3-M	GN 896.2	50	27	11	14	60
GN 890-2100-SP3-M	GN 896.1	62	26	10	14	108

Specification	GN 896.1	GN 896.2	GN 896.3
Voltage range:	3 to 110 V AC/DC	3 to 110 V AC/DC	3 to 110 V AC/DC
Switch load:	0.3 A	0.3 A	0.2 A
Switch capacity (inductive):	10 VA	10 VA	6 VA
Voltage drop LED:	3 V	3 V	3 V
Temp. range:	- 20 °C to + 85 °C	- 20 °C to + 85 °C	- 20 °C to + 85 °C
Slew rate:	0.6 ms	0.6 ms	0.5 ms
Life expectancy:	10^7 operations	10^7 operations	10^7 operations
Protection class:	IP 67	IP 67	IP 67

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GN 804

Toggle clamp spindle assemblies

with adjustable spring loaded thrust pad

SPECIFICATION

Spindle
Steel

- Tensile strength class 5.8
- zinc plated, blue passivated

Hexagon nuts ISO 4032
Steel
zinc plated, blue passivated

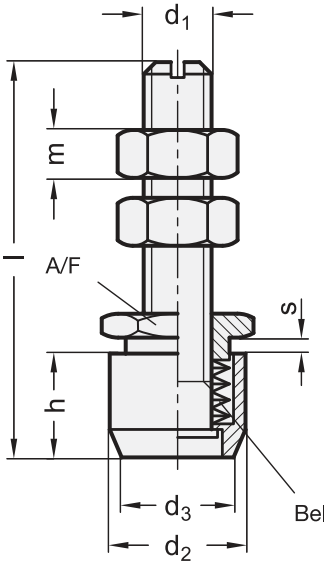
Thrust pad
Steel
nitrided, blackened

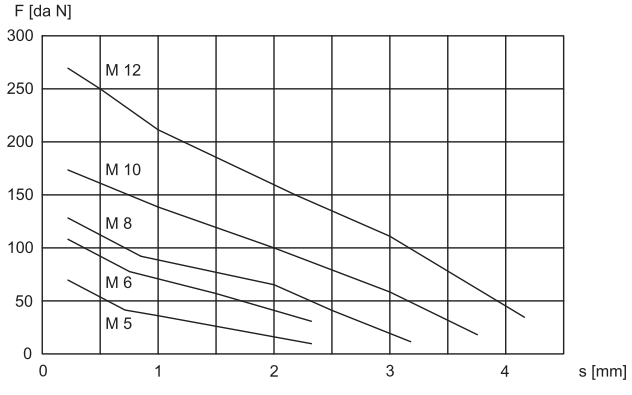
INFORMATION

In order to pass the dead centre point and / or compensate for work piece tolerances when using hand operated toggle clamps, an elastic thrust pad such as GN 708.1 (see page 1625) can be used.
GN 804 toggle clamp spindle assemblies fitted with Belleville spring washers do not only help to overcome workpiece tolerances but they also allow presetting of the required clamping force.
This adjustment can be made with the hexagon nut (A/F). The setting nut stroke is the distance by which the Belleville spring washers can be preloaded as shown on the graph to give the required clamping force.
The thrust pad is movable.
The two hexagon nuts are included parts of the order.

TECHNICAL INFORMATION

- Strength values of screws (see page A20)





Belleville spring washers

GN 804

Description	d1	l ±1	d2	d3	h	m	A/F	⚖
GN 804-M5-45	M 5	45	13	11	13	4	14	20
GN 804-M6-50	M 6	50	16	13	15	4	16	35
GN 804-M8-70	M 8	70	18	15	17	5	18	58
GN 804-M10-85	M 10	85	24	18	20	6	24	123
GN 804-M12-106	M 12	106	28	21	24	7	27	196

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Toggle clamp spindle assemblies

Steel / Stainless Steel, with / without protective cap

SPECIFICATION

Types

- Type **A**: without protective cap
- Type **B**: with protective cap

Version in Steel

Hexagon head screw ISO 4017 / DIN 933
Tensile strength class 8.8
zinc plated, blue passivated

Hexagon nuts ISO 4032
zinc plated, blue passivated

Version in Stainless Steel

Stainless Steel AISI 304 **NI**

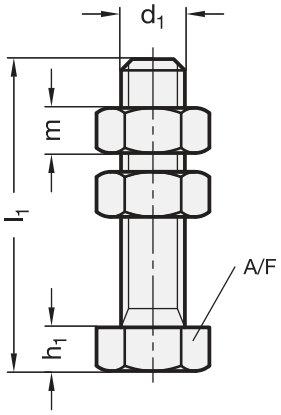
- Hexagon head screw ISO 4017 / DIN 933
- Hexagon nuts ISO 4032

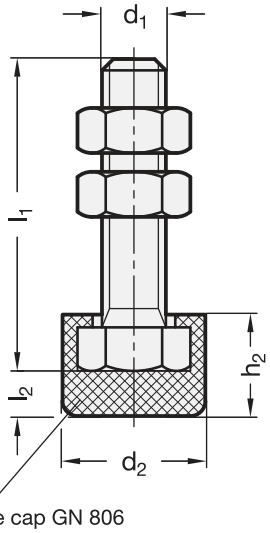
INFORMATION

The two hexagon nuts are included parts of the order.

TECHNICAL INFORMATION

- Protective caps GN 806 (see page 923)
- Stainless Steel characteristics (see page A26)
- Strength values of screws (see page A20)





Protective cap GN 806

*Complete with type index of the toggle clamp spindle assemblies

A
without protective cap

B
with protective cap

GN 807

Description	d1	l1	d2	h1	h2	l2	m	A/F	⚖
GN 807-M4-23-*	M 4	23	11	3	6.5	2.5	3.2	7	5
GN 807-M5-38-*	M 5	38	12.5	3.5	8	2.5	4.7	8	9
GN 807-M6-29-*	M 6	29	15	4	10	4	5.2	10	11
GN 807-M6-49-*	M 6	49	15	4	10	4	5.2	10	16
GN 807-M8-36-*	M 8	36	19	5.5	13	5.5	6.8	13	24
GN 807-M8-56-*	M 8	56	19	5.5	13	5.5	6.8	13	26
GN 807-M8-96-*	M 8	96	19	5.5	13	5.5	6.8	13	43
GN 807-M10-43-*	M 10	43	24	6.5	16	7	8.4	16	47
GN 807-M10-77-*	M 10	77	24	6.5	16	7	8.4	16	65
GN 807-M10-127-*	M 10	127	24	6.5	16	7	8.4	16	92
GN 807-M12-53-*	M 12	53	26	7.5	19	8.5	10.8	18	75
GN 807-M12-88-*	M 12	88	26	7.5	19	8.5	10.8	18	106
GN 807-M12-128-*	M 12	128	26	7.5	19	8.5	10.8	18	139
GN 807-M14-54-*	M 14**	54	-	9	-	-	12.8	21	109

GN 807-NI — STAINLESS STEEL

Description	d1	l1	d2	h1	h2	l2	m	A/F	⚖
GN 807-M4-23-*-NI	M 4	23	11	3	6.5	2.5	3.2	7	4
GN 807-M5-38-*-NI	M 5	38	12.5	3.5	8	2.5	4.7	8	8
GN 807-M6-29-*-NI	M 6	29	15	4	10	4	5.2	10	11
GN 807-M6-49-*-NI	M 6	49	15	4	10	4	5.2	10	17
GN 807-M8-36-*-NI	M 8	36	19	5.5	13	5.5	6.8	13	24
GN 807-M8-56-*-NI	M 8	56	19	5.5	13	5.5	6.8	13	30
GN 807-M8-96-*-NI	M 8	96	19	5.5	13	5.5	6.8	13	43

** Toggle clamp spindle assemblies M14 are not available as type B (with protective cap) | Weight type A

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GN 708.1

Toggle clamp spindle assemblies

Steel / Stainless Steel, with rubber pressure pad

SPECIFICATION

Types

- Type **A**: Flat spindle tip
- Type **B**: Rounded spindle tip

Version in Steel ST

Spindle
Steel zinc plated, blue passivated

Hexagon nuts ISO 4035
Steel zinc plated, blue passivated

Version in Stainless Steel NI

Spindle
Stainless Steel AISI 304

Hexagon nuts ISO 4035
Stainless Steel AISI 304

Pressure pad
Rubber, Neoprene (CR)

- 85 Shore A ≈
- vulcanized
- black

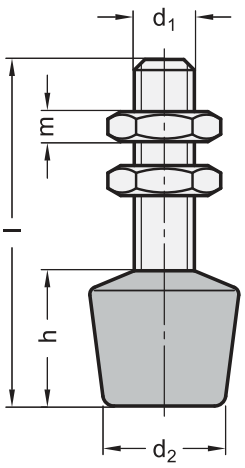
INFORMATION

The two hexagon nuts are included parts of the order.

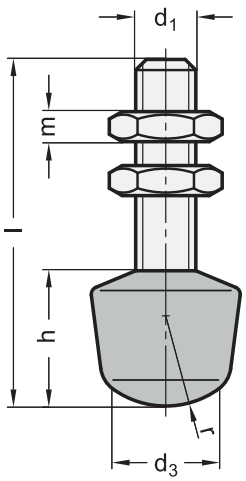
TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Elastomer characteristics (see page A32)

Type **A**



Type **B**



*Complete with type index of the toggle clamp spindle assemblies

A
Flat spindle tip

B
Rounded spindle tip

GN 708.1

Description	d1	l	d2	d3	h	m	r	⚖
GN 708.1-M4-33-*-ST	M 4	33	8	8	10	2.2	6	6
GN 708.1-M4-43-*-ST	M 4	43	8	8	10	2.2	6	7
GN 708.1-M5-45-*-ST	M 5	45	10	9	11	2.7	8	10
GN 708.1-M5-55-*-ST	M 5	55	10	9	11	2.7	8	11
GN 708.1-M6-35-*-ST	M 6	35	13	12	12	3.2	10	13
GN 708.1-M6-55-*-ST	M 6	55	13	12	12	3.2	10	16
GN 708.1-M6-65-*-ST	M 6	65	13	12	12	3.2	10	18
GN 708.1-M8-43-*-ST	M 8	43	16	14	18	4	12	29
GN 708.1-M8-68-*-ST	M 8	68	16	14	18	4	12	35
GN 708.1-M10-50-*-ST	M 10	50	20	18	21	5	15	52
GN 708.1-M10-77-*-ST	M 10	77	20	18	21	5	15	60
GN 708.1-M10-97-*-ST	M 10	97	20	18	21	5	15	74
GN 708.1-M12-100-*-ST	M 12	100	25	23	24	6	18	111
GN 708.1-M12-130-*-ST	M 12	130	25	23	24	6	18	132

GN 708.1-NI **STAINLESS STEEL**

Description	d1	l	d2	d3	h	m	r	⚖
GN 708.1-M4-33-*-NI	M 4	33	8	8	10	2.2	6	13
GN 708.1-M4-43-*-NI	M 4	43	8	8	10	2.2	6	7
GN 708.1-M5-45-*-NI	M 5	45	10	9	11	2.7	8	10
GN 708.1-M5-55-*-NI	M 5	55	10	9	11	2.7	8	11
GN 708.1-M6-35-*-NI	M 6	35	13	12	12	3.2	10	13
GN 708.1-M6-55-*-NI	M 6	55	13	12	12	3.2	10	17
GN 708.1-M6-65-*-NI	M 6	65	13	12	12	3.2	10	19
GN 708.1-M8-43-*-NI	M 8	43	16	14	18	4	12	27
GN 708.1-M8-68-*-NI	M 8	68	16	14	18	4	12	34
GN 708.1-M10-50-*-NI	M 10	50	20	18	21	5	15	52
GN 708.1-M10-77-*-NI	M 10	77	20	18	21	5	15	65
GN 708.1-M10-97-*-NI	M 10	97	20	18	21	5	15	74
GN 708.1-M12-100-*-NI	M 12	100	25	23	24	6	18	109
GN 708.1-M12-130-*-NI	M 12	130	25	23	24	6	18	133

Weight type A

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Toggle clamp spindle assemblies

with swivel steel thrust pad

SPECIFICATION

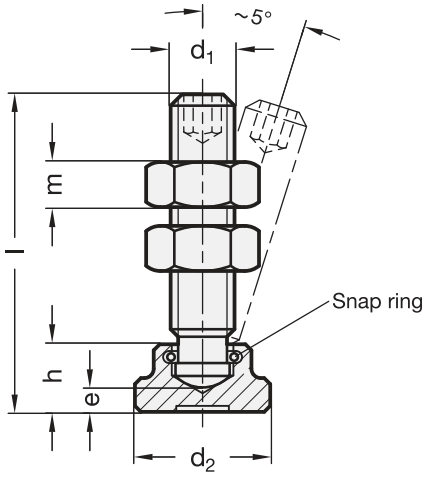
Grub screw DIN 6332 (see page 912)

Thrust pad DIN 6311 (see page 938)

Hexagon nuts ISO 4032 / DIN 934
Steel zinc plated, blue passivated

INFORMATION

By means of the retaining ring in the thrust pad a simple and toggle link between bolt an thrust pad is created.
The two hexagon nuts are included parts of the order.



GN 802

Description	d1	l	d2	e	h	m	⚖
GN 802-M5-37	M 5*	37	14	-	10	4.7	30
GN 802-M6-32	M 6	32	12	2.2	7	5.2	15
GN 802-M6-42	M 6	42	12	2.2	7	5.2	17
GN 802-M6-52	M 6	52	12	2.2	7	5.2	19
GN 802-M8-38	M 8	38	16	3	9	6.8	28
GN 802-M8-48	M 8	48	16	3	9	6.8	30
GN 802-M8-63	M 8	63	16	3	9	6.8	35
GN 802-M8-83	M 8	83	16	3	9	6.8	41
GN 802-M10-44	M 10	44	20	3.6	11	8.4	53
GN 802-M10-54	M 10	54	20	3.6	11	8.4	58
GN 802-M10-64	M 10	64	20	3.6	11	8.4	63
GN 802-M10-84	M 10	84	20	3.6	11	8.4	72
GN 802-M12-55	M 12	55	25	4.5	13	10.8	92
GN 802-M12-65	M 12	65	25	4.5	13	10.8	96
GN 802-M12-85	M 12	85	25	4.5	13	10.8	110
GN 802-M12-105	M 12	105	25	4.5	13	10.8	120

* Clamping bolt M5: bolt end and thrust pad are not hardened and not removable.

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GN 903

Toggle clamp spindle assemblies

Steel / Stainless Steel, with swivel plastic thrust pad

SPECIFICATION

Thrust pad
Plastic (Polyacetal POM)

- temperature resistant up to 80 °C
- black, matt

Version in Steel ST

Grub screw
Steel

- Tensile strength class 5.8
- blackened

Hexagon nuts ISO 4032
Steel zinc plated, blue passivated

Version in Stainless Steel NI

Grub screw
Stainless Steel AISI 303

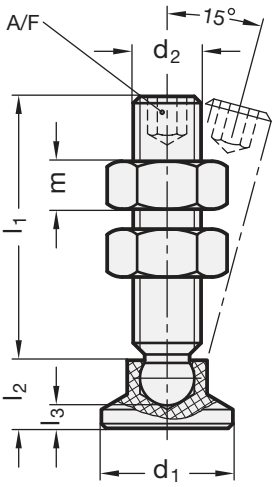
Hexagon nuts ISO 4032
Stainless Steel AISI 303

INFORMATION

The ball end of the grub screw can be hit easily into the thrust pad and removed.
The two hexagon nuts are included parts of the order.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- Strength values of screws (see page A20)



*Complete with material index of the toggle clamp spindle assemblies

ST Steel
NI Stainless Steel

GN 903 — **STAINLESS STEEL**

Description	d1	d2	l1	l2	l3 ≈	m	A/F	⚖
GN 903-15-M6-26-*	15	M 6	26	7.6	3.6	5.2	3	12
GN 903-15-M6-36-*	15	M 6	36	7.6	3.6	5.2	3	15
GN 903-15-M6-46-*	15	M 6	46	7.6	3.6	5.2	3	15
GN 903-15-M8-20-*	15	M 8	20	7.6	2.5	6.8	4	16
GN 903-15-M8-35-*	15	M 8	35	7.6	2.5	6.8	4	21
GN 903-15-M8-45-*	15	M 8	45	7.6	2.5	6.8	4	24
GN 903-15-M8-58-*	15	M 8	58	7.6	2.5	6.8	4	28
GN 903-18-M8-20-*	18	M 8	20	9.2	4.2	6.8	4	19
GN 903-18-M8-35-*	18	M 8	35	9.2	4.2	6.8	4	22
GN 903-18-M8-45-*	18	M 8	45	9.2	4.2	6.8	4	25
GN 903-18-M8-58-*	18	M 8	58	9.2	4.2	6.8	4	29

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GN 903 | Toggle clamp spindle assemblies

*Complete with material index of the toggle clamp spindle assemblies

ST Steel

NI Stainless Steel

GN 903 **STAINLESS STEEL**

Description	d1	d2	l1	l2	l3 ≈	m	A/F	⚖
GN 903-18-M10-34-*	18	M 10	34	9.2	3.4	8.4	5	34
GN 903-18-M10-44-*	18	M 10	44	9.2	3.4	8.4	5	40
GN 903-18-M10-57-*	18	M 10	57	9.2	3.4	8.4	5	47
GN 903-18-M10-74-*	18	M 10	74	9.2	3.4	8.4	5	55
GN 903-21-M8-20-*	21	M 8	20	10	5	6.8	4	18
GN 903-21-M8-35-*	21	M 8	35	10	5	6.8	4	21
GN 903-21-M8-45-*	21	M 8	45	10	5	6.8	4	25
GN 903-21-M8-58-*	21	M 8	58	10	5	6.8	4	30
GN 903-21-M10-34-*	21	M 10	34	10	4.3	8.4	5	35
GN 903-21-M10-44-*	21	M 10	44	10	4.3	8.4	5	41
GN 903-21-M10-57-*	21	M 10	57	10	4.3	8.4	5	48
GN 903-21-M10-74-*	21	M 10	74	10	4.3	8.4	5	56
GN 903-21-M12-34-*	21	M 12	34	10	3.4	10.8	6	47
GN 903-21-M12-57-*	21	M 12	57	10	3.4	10.8	6	68
GN 903-21-M12-74-*	21	M 12	74	10	3.4	10.8	6	80
GN 903-21-M12-94-*	21	M 12	94	10	3.4	10.8	6	95
GN 903-25-M8-20-*	25	M 8	20	10.5	5.5	6.8	4	14
GN 903-25-M8-35-*	25	M 8	35	10.5	5.5	6.8	4	18
GN 903-25-M8-45-*	25	M 8	45	10.5	5.5	6.8	4	26
GN 903-25-M8-58-*	25	M 8	58	10.5	5.5	6.8	4	30
GN 903-25-M10-34-*	25	M 10	34	10.5	4.6	8.4	5	37
GN 903-25-M10-44-*	25	M 10	44	10.5	4.6	8.4	5	43
GN 903-25-M10-57-*	25	M 10	57	10.5	4.6	8.4	5	50
GN 903-25-M10-74-*	25	M 10	74	10.5	4.6	8.4	5	58
GN 903-25-M12-34-*	25	M 12	34	10.5	3.6	10.8	6	49
GN 903-25-M12-57-*	25	M 12	57	10.5	3.6	10.8	6	70
GN 903-25-M12-74-*	25	M 12	74	10.5	3.6	10.8	6	82
GN 903-25-M12-94-*	25	M 12	94	10.5	3.6	10.8	6	97
GN 903-32-M8-20-*	32	M 8	20	11	6	6.8	4	16
GN 903-32-M8-35-*	32	M 8	35	11	6	6.8	4	20
GN 903-32-M8-45-*	32	M 8	45	11	6	6.8	4	24
GN 903-32-M8-58-*	32	M 8	58	11	6	6.8	4	28
GN 903-32-M10-34-*	32	M 10	34	11	5	8.4	5	29
GN 903-32-M10-44-*	32	M 10	44	11	5	8.4	5	35
GN 903-32-M10-57-*	32	M 10	57	11	5	8.4	5	45
GN 903-32-M10-74-*	32	M 10	74	11	5	8.4	5	50
GN 903-32-M12-34-*	32	M 12	34	11	4.2	10.8	6	37
GN 903-32-M12-57-*	32	M 12	57	11	4.2	10.8	6	50
GN 903-32-M12-74-*	32	M 12	74	11	4.2	10.8	6	76
GN 903-32-M12-94-*	32	M 12	94	11	4.2	10.8	6	85
GN 903-40-M8-20-*	40	M 8	20	13	8	6.8	4	21
GN 903-40-M8-35-*	40	M 8	35	13	8	6.8	4	25
GN 903-40-M8-45-*	40	M 8	45	13	8	6.8	4	29
GN 903-40-M8-58-*	40	M 8	58	13	8	6.8	4	32
GN 903-40-M10-34-*	40	M 10	34	13	7	8.4	5	34
GN 903-40-M10-44-*	40	M 10	44	13	7	8.4	5	40
GN 903-40-M10-57-*	40	M 10	57	13	7	8.4	5	47
GN 903-40-M10-74-*	40	M 10	74	13	7	8.4	5	55
GN 903-40-M12-34-*	40	M 12	34	13	6.2	10.8	6	41
GN 903-40-M12-57-*	40	M 12	57	13	6.2	10.8	6	62
GN 903-40-M12-74-*	40	M 12	74	13	6.2	10.8	6	71
GN 903-40-M12-94-*	40	M 12	94	13	6.2	10.8	6	89

Weight type ST

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GN 801

Clamp mounts

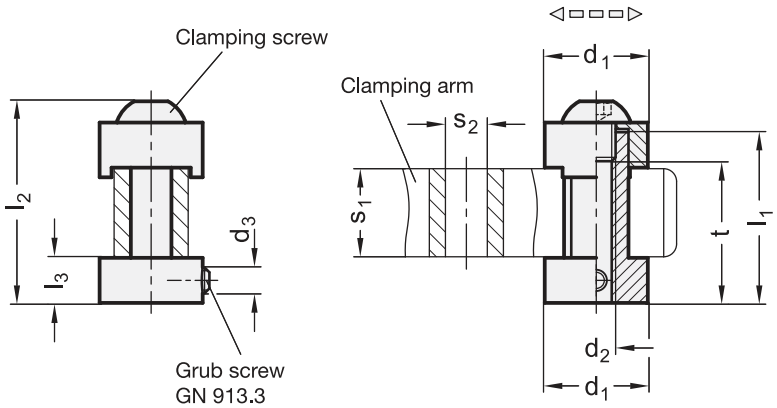
for toggle clamps with forked clamping arm

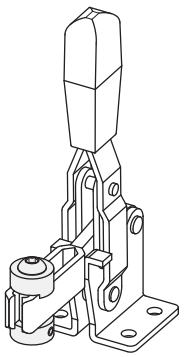
SPECIFICATION

Steel
zinc plated, blue passivated

INFORMATION

GN 801 clamp mounts have been developed for use with toggle clamps that are designed with a forked clamping arm.
The clamp mounts can be moved along the clamping arm. Once the desired position is reached, you can secure the mount in place with the clamping screw.
The thread d_2 serves to hold the wide variety of toggle clamp spindle assemblies, spring elements and similar devices.
The ideal clamping height can be adjusted without loosening the clamp mount on the forked clamping arm.





GN 801

Description	d1	d2	l1	l2	l3	d3	s1	s2	t	For toggle clamps GN 810 GN 810.1	GN 812 GN 812.1	GN 820 GN 820.1 GN 820.2 GN 820.3 GN 820.4	GN 860 GN 862 GN 862.1	⚖
GN 801-16-M6	16	M 6	26.5	33 (31)*	7	M 4	16 (14)*	6.5	24 (22)*	130	-	130	125	25
GN 801-18-M8	18	M 8	31	38 (37)**	8	M 5	18 (17)**	8.5	26 (25)**	230	200	230	200	39
GN 801-22-M10	22	M 10	37	47 (45)***	8	M 5	22 (20)***	10.5	30 (28)***	330	300	355	300	70
GN 801-24-M10	24	M 10	41	49	8	M 5	24	10	32	-	-	-	-	100
GN 801-26-M10	26	M 10	39	48	8	M 5	22	12.5	30	430	-	-	400	160

* Dimension in (...) applies to GN 860

** Dimension in (...) applies to GN 812, GN 812.1, GN 862 and GN 862.1

*** Dimension in (...) applies to GN 812, GN 812.1, GN 860, GN 862 and GN 862.1

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GN 809

Clamp mounts

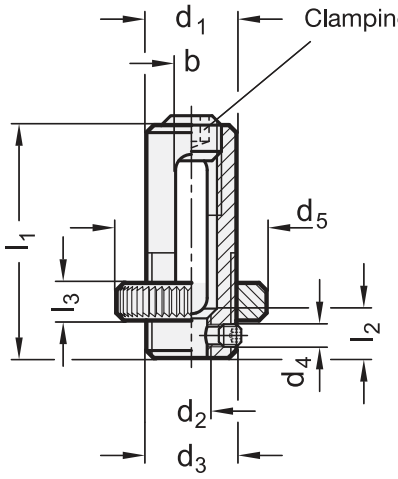
for toggle clamps with solid clamping arm

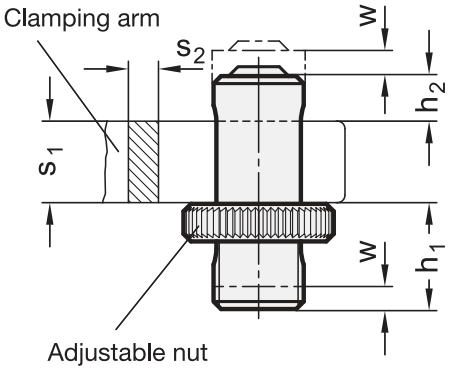
SPECIFICATION

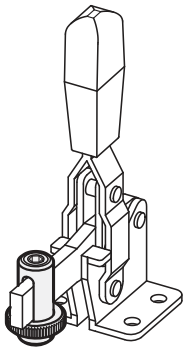
Steel
zinc plated, blue passivated

INFORMATION

GN 809 clamp mounts for toggle clamp spindle assemblies have been developed for various toggle clamps in the design version "solid clamping arm".
The clamp mounts can be moved along the clamping arm and be adjusted in height. Once the desired position is reached, fix the mounting in place with the clamping screw.
The thread d_2 serves to hold the wide variety of clamping bolts, spring elements and similar devices.







GN 809

Description	d1	d2	b	d3	d4	d5	h1 max.	h1 min.	h2 max.	h2 min.	l1	l2	l3	s1	s2	w	For toggle clamps GN 860 GN 862 GN 862.1	GN 810 GN 810.1	GN 820 GN 820.1 GN 820.3 GN 820.4	GN 812 GN 812.1	⚖
GN 809-12-M5	12	M 5	4.2	M 12 x 1.5	M 3	20	14	8	12	6	31	6	5	11	4	3	70	75	75	-	22
GN 809-16-M6	16	M 6	5.3	M 16 x 1.5	M 4	22	16 (18)*	10	16	8	40	10	5.5	16 (14)*	5	4	125	130	130	-	43
GN 809-18-M8	18	M 8	6.3	M 18 x 1.5	M 4	24	23 (24)**	13	20	10	51	13	6	18 (17)**	6	5	200	230	230	200	65
GN 809-20-M8	20	M 8	7.3	M 20 x 1.5	M 5	27	25	15	20	10	57	15	7	22	7	5	-	330	355	-	96
GN 809-22-M10	22	M 10	8.3	M 22 x 1.5	M 5	30	28	16	24	12	60	16	8	20	8	5	300	-	-	300	121

* Dimension in (...) applies only to GN 860 | ** Dimension in (...) applies only to GN 812, GN 812.1, GN 862 and GN 862.1

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Pneumatic fastening clamps

Operating principle / types

These pneumatic fastening clamps (patent MISATI) are used for clamping, holding, gripping and positioning of work pieces in jigs and handling systems.

The salient points of these pneumatic fastening clamps are:

- the high clamping force
- the small dimensions
- the reduced air consumption
- the light weight

The working principle of these three types of clamps can be seen from the sketches on the right.

Pistons with diameters of 20, 32, 40 and 50 mm yield a clamping force of 60 Nm up to 475 Nm, which leads to clamping forces being much above those of competitors' clamps.

The pneumatic fastening clamps have been designed and configured to achieve an extended life. Functional tests have proved that even after 20 million cycles they were still serviceable.

Further salient design points are:

- The movement path is designed in such a manner that at the end of the clamping stroke (clamping force FS), irreversible self locking (holding force FH) is achieved.

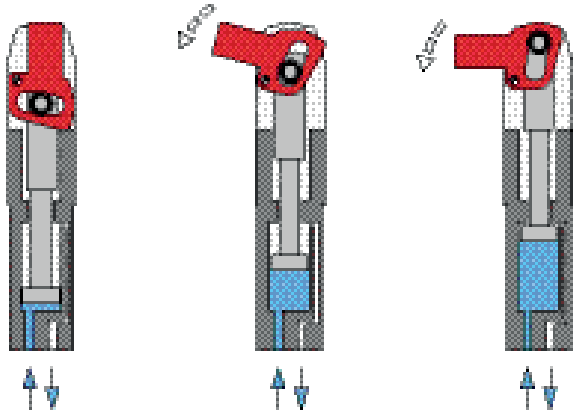
- The forward stroke sequence of the clamping arm is rapid but the ultimate clamping action is slow and as a result pneumatic damping is normally not required. Upon request, however, it can be supplied when big masses are moved.

- The clamping mechanism is fitted with needle bearings which give optimum clamping forces and reduced wear.

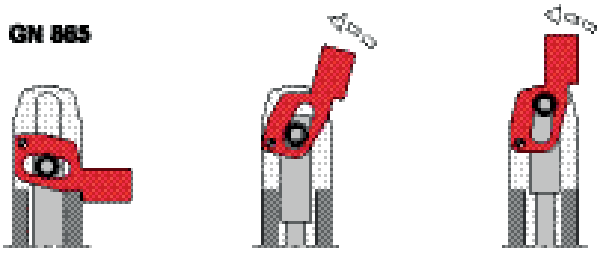
- The steel cylinder with the integrated clamping mechanism are in one unit. This leads to high stability for these small units with an extended range of applications. The placement of the air connection at the bottom end leads also to many other advantages.

- The clamping mechanism of GN 864 (see page 1634) is also shrouded to avoid the ingress of dirt and other objects which could interfere with the proper functioning of the clamps (such as welding operations!)

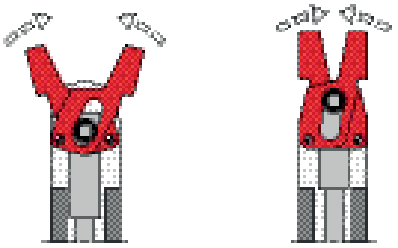
GN 864

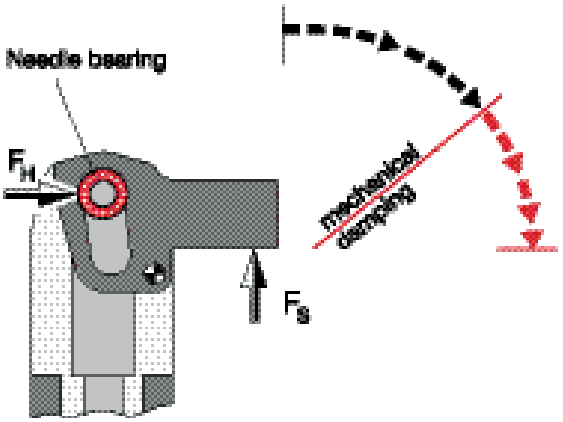


GN 865



GN 866





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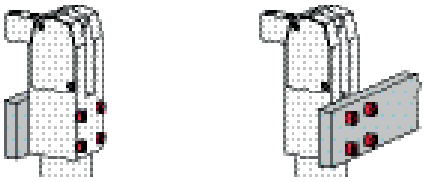
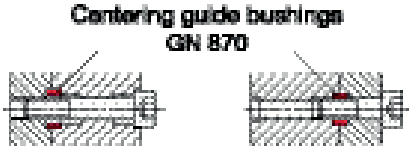
Pneumatic fastening clamps

Mounting methods / accessories

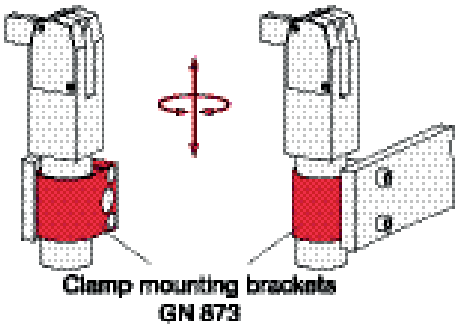
The mounting holes on the main body of the pneumatic fastening clamps have been designed to allow installation direct on the female threaded holes or alternatively with through bolts.



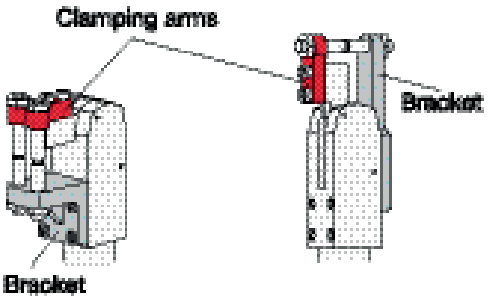
Centering guide bushings present an important function when mounting the pneumatic fastening clamps: they absorb lateral thrust and they ensure a precise alignment.



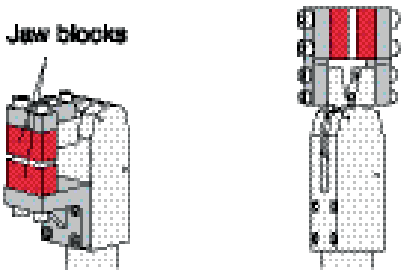
Mounting of the cylinder by a collar clamp increases the numerous ways they can be installed.
Even collar clamps use centering guide bushings for precise positioning.



There is an extensive range of accessories available for pneumatic fastening clamps, such as tool holders (for clamping arms) thrust bolts and clamping jaws. The sketches shown on the right give some idea.

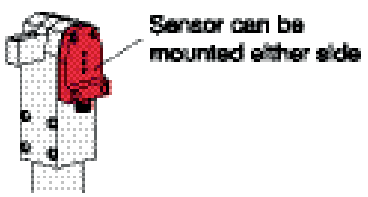


The combination of clamping tools on the clamping arm and brackets represent together a tool set.



For the fixing and precise positioning of clamping arms and jaw blocks, GN 870 (see page 1645) centering guide bushings are also used. The individual data sheets give further information.

All pneumatic fastening clamps can be fitted with proximity switches (inductive sensors) to monitor the end position of the stroke.



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GN 864

Pneumatic fastening clamps

SPECIFICATION

Type

- Type **BL**: Clamping arm horizontal

Steel C45
blackened

max. pressure 10 bar

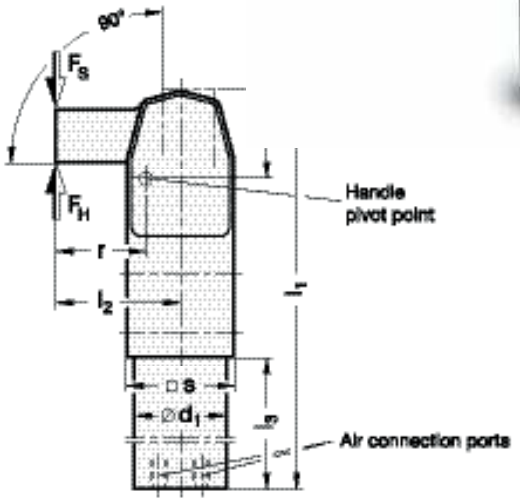
INFORMATION

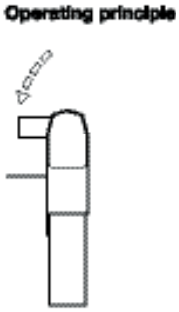
The maximum clamping moment of the GN 864 pneumatic fastening clamps is reached once the clamping arm is at the end of its stroke. For this reason the working stroke should be completed as closely as possible to the stroke end.

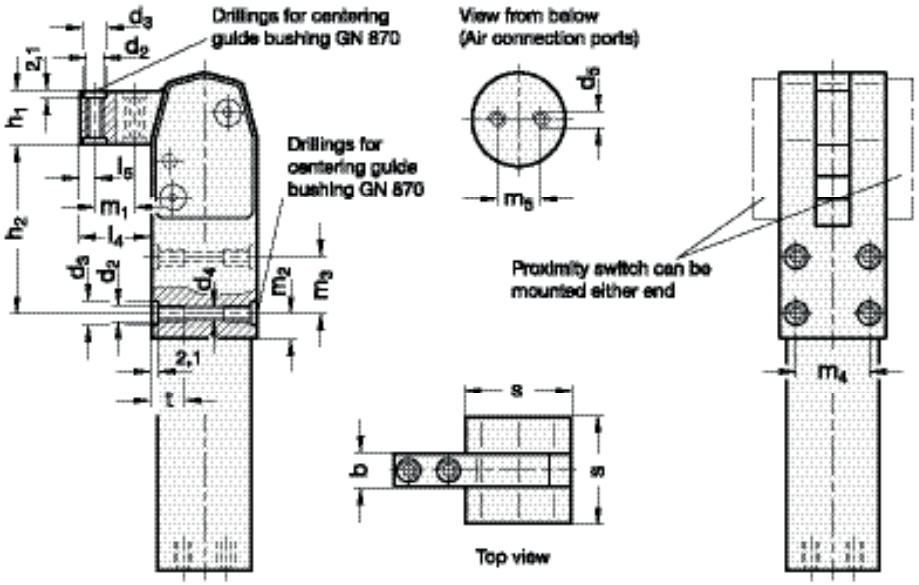
- Information for pneumatic fastening clamps (see page 1632)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)







GN 864

Description	Size	max. clamping moment in Nm at 6 bar	F_H in N	F_S in N	a	b -0.2	d1 h8	d2	d3 H8	d4	d5	h1	h2	l1 -0.5	l2	l3	l4	l5	m1 ±0.01	m2	m3 ±0.01	m4 ±0.01	m5	r	s	t	⚖
GN 864-20-BL	20	60	4070	2220	27	10	28	M 5	7	4.2	M 5	16	51	150	37.5	70	21.5	4.5	12	7.5	17	22	13	27	32	13	640
GN 864-32-BL	32	150	5620	4110	36.5	12	40	M 6	9	5	G 1/8	21	75.5	206	52	91	31	6	18	10	25	30	22	36.5	42	15	1500
GN 864-40-BL	40	300	7530	6740	44.5	16	50	M 8	11	6.8	G 1/8	26	91.5	244	63	104	37	7.5	22	13	30	37	25	44.5	52	18	2820
GN 864-50-BL	50	475	13300	9000	52.5	18	60	M 10	13	8.5	G 1/8	31	114	279	72.5	110.5	41.5	8	27	12	47	44	35	52.5	62	21	4010

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GN 865

Pneumatic fastening clamps

SPECIFICATION

Type

- Type **BI**: Clamping arm vertical

Steel C45
blackened

max. pressure 10 bar

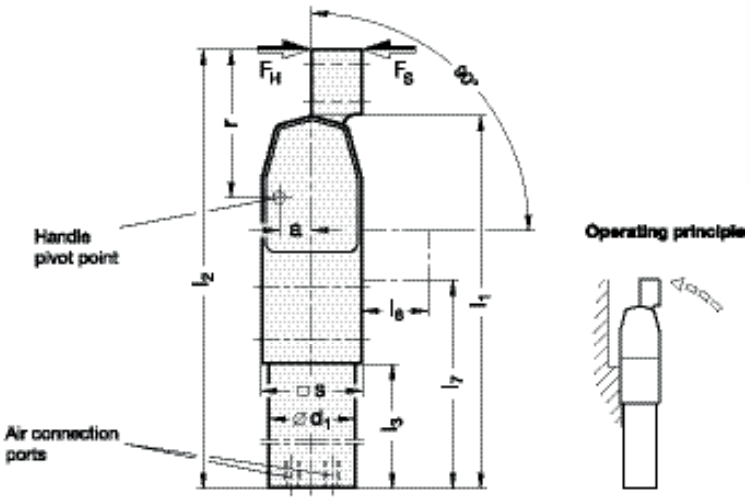
INFORMATION

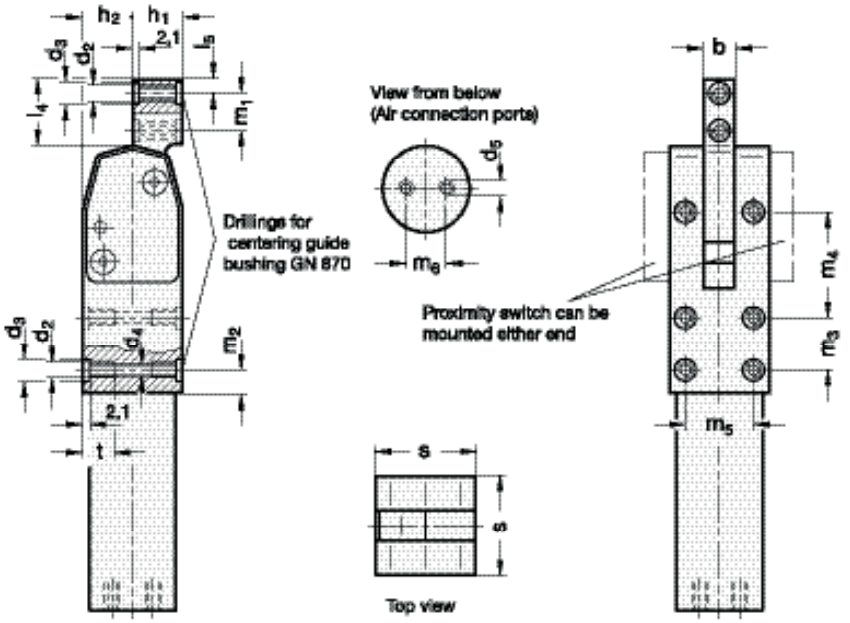
The maximum clamping moment of the GN 865 pneumatic fastening clamps is reached once the clamping arm is at the end of its stroke. For this reason the working stroke should be completed as closely as possible to the stroke end.

- Information for pneuma

TECHNICAL INFORMAT

- ISO-Fundamental Toler





GN 865

Description	Size	max. clamping moment in Nm at 6 bar	FH in N	FS in N	a	b -0.2	d1 h8	d2	d3 H8	d4	d5	h1	h2	l1 -0.5	l2 -0.5	l3	l4	l5	l6	l7 -0.5	m1 ±0.01	m2	m3 ±0.01	m4 ±0.01	m5 ±0.01	m6	r	s	t	⚖
GN 865-20-BI	20	60	2300	1250	10.5	10	28	M 5	7	4.2	M 5	16	16	150	171	70	21	4.5	21	97	12	7.5	17	34	22	13	47.5	32	13	620
GN 865-32-BI	32	150	3040	2220	15.5	12	40	M 6	9	5	G 1/8	21	21	206	237	91	31	6	31	133	18	10	25	51	30	22	67.5	42	15	1520
GN 865-40-BI	40	300	4060	3640	18.5	16	50	M 8	11	6.8	G 1/8	26	26	244	282	104	38	7.5	38	155	22	13	30	62	37	25	82.5	52	18	2800
GN 865-50-BI	50	475	7200	4900	21.5	18	60	M 10	13	8.5	G 1/8	31	31	279	323	110.5	44	8	44	174	27	12	47	71.5	44	35	96.5	62	21	4000

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Pneumatic fastening clamps

for centred clamping

SPECIFICATION

Type

- Type **BC**: 2 clamping arms vertical for centred clamping

Steel C45
blackened

max. pressure 10 bar

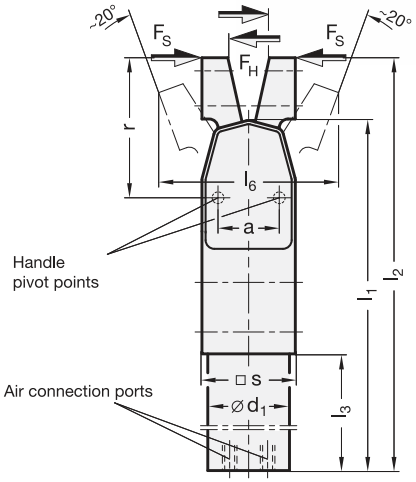
INFORMATION

The clamping forces F_S in GN 866 pneumatic fastening clamps are directed inwards at the clamping arms.
The maximum clamping moment of the GN 866 pneumatic fastening clamps is reached once the clamping arm is at the end of its stroke. For this reason the working stroke should be completed as closely as possible to the stroke end.

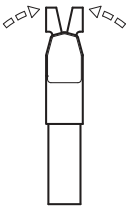
- Information for pneumatic fastening clamps (see page 1632)

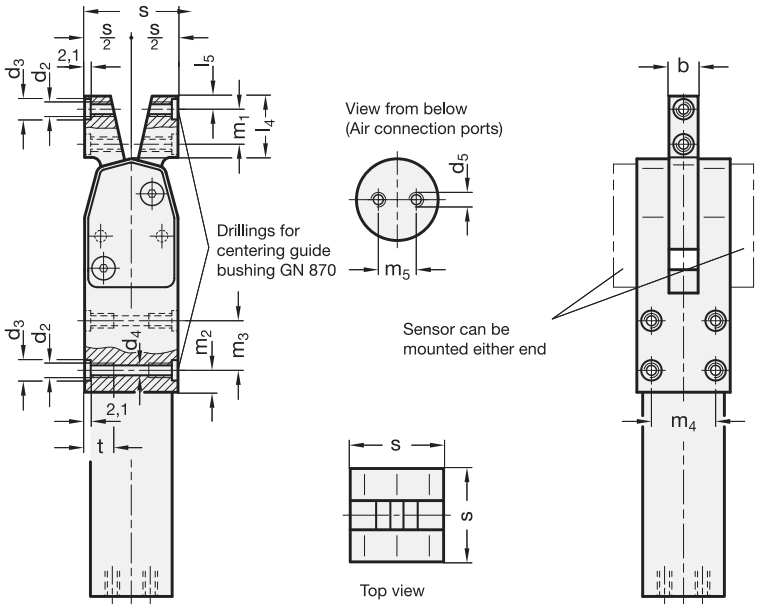
TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)



Operating principle





GN 866

Description	Size	max. clamping moment in Nm at 6 bar	F_H in N	F_S in N	a	b -0.2	d_1 h8	d_2	d_3 H8	d_4	d_5	l_1 -0.5	l_2 -0.5	l_3	l_4	l_5	l_6 ≈	m_1 ±0.01	m_2	m_3 ±0.01	m_4 ±0.01	m_5	r	s	t	⚖
GN 866-20-BC	20	60	1150	630	21	10	28	M 5	7	4.2	M 5	150	171	70	21	4.5	45	12	7.5	17	22	13	48	32	13	650
GN 866-32-BC	32	150	1520	1110	31	12	40	M 6	9	5	G 1/8	206	237	91	31	6	72.5	18	10	25	30	22	67.5	42	15	1400
GN 866-40-BC	40	300	2000	1800	37	16	50	M 8	11	6.8	G 1/8	244	282	104	38	7.5	89.5	22	13	30	37	25	82.5	52	18	2900

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GN 867

Single post coupling / Y-coupling accessories

SPECIFICATION

Types

- Type **E**: for one clamping bolt
- Type **Z**: for two clamping bolts

Steel C45
blackened

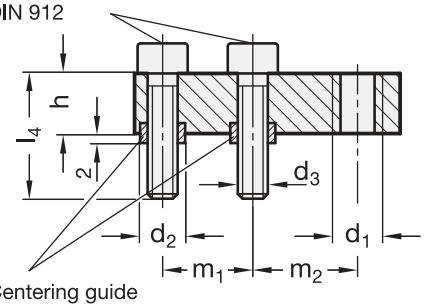
INFORMATION

GN 867 single post coupling / Y-coupling accessories are suitable for use on clamping arms of the GN 864 (see page 1634) / GN 865 (see page 1635) / GN 866 (see page 1636) pneumatic fastening clamps. Y-coupling accessories for two clamping bolts (Type Z) are preferably used in such applications where absolutely rigid clamping of a sheet metal component is essential. For the same purpose GN 605 (see page 928) ball point screws with serrated ball pads are ideally suited. Cap screws and centering guide bushing accessories are included.

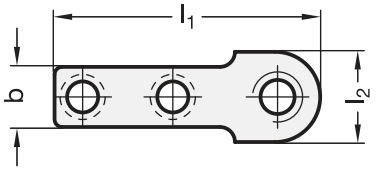
TECHNICAL INFORMATION

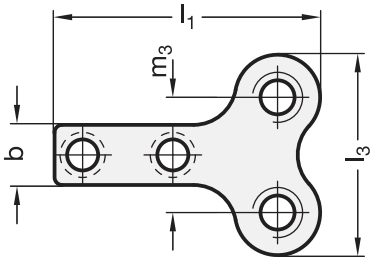
- ISO-Fundamental Tolerances (see page A21)

Cap screws
DIN 912

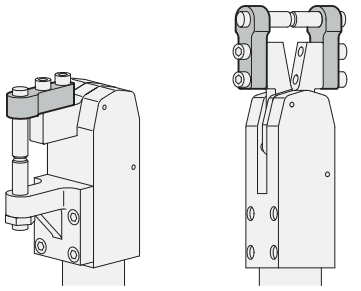


Centering guide
bushings
GN 870

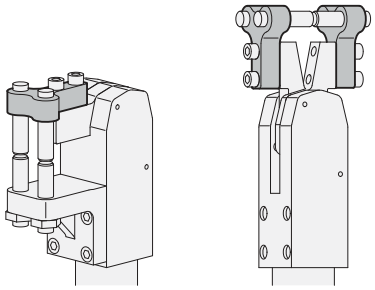




Mounting examples



Type **E**



Type **Z**

GN 867

Description	b -0.2	d1	d2 H8/h6	d3	h	l1	l2	l3	l4	m1	m2	m3	⚖
GN 867-10-M8-E	10	M 8	7	M 5	10	37	13	-	19.5	12	14.5	-	20
GN 867-12-M10-E	12	M 10	9	M 6	12	53	17	-	29.5	18	20.9	-	90
GN 867-16-M12-E	16	M 12	11	M 8	14	63	20	-	34	22	23.5	-	110
GN 867-18-M12-E	18	M 12	13	M 10	16	73	20	-	34	27	28.5	-	130
GN 867-10-M8-Z	10	M 8	7	M 5	10	37	-	30	19,5	12	-	17	30
GN 867-12-M10-Z	12	M 10	9	M 6	12	53	-	40	29.5	18	-	23	120
GN 867-16-M12-Z	16	M 12	11	M 8	14	63	-	50	34	22	-	30	180
GN 867-18-M12-Z	18	M 12	13	M 10	16	73	-	60	34	27	-	40	190

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Single post bracket / bracket accessories

for clamping bolts

SPECIFICATION

Types

- Type **E**: for one clamping bolt
- Type **Z**: for two clamping bolts

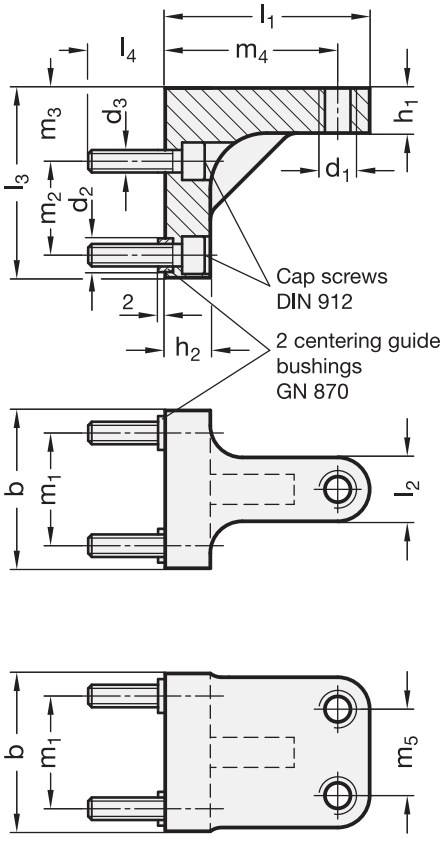
Steel C45
blackened

INFORMATION

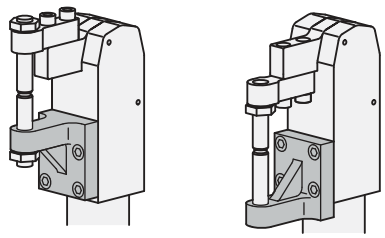
GN 867.1 single post bracket / bracket accessories have been designed for use with GN 864 (see page 1634) pneumatic fastening clamps.
Bracket accessories with two clamping bolts (Type Z) are preferably used for rigid clamping of sheet metal components. For the same purpose GN 605 (see page 928) ball point screws with serrated ball pads are ideally suited.
Cap screws and centering guide bushing accessories are included.

TECHNICAL INFORMATION

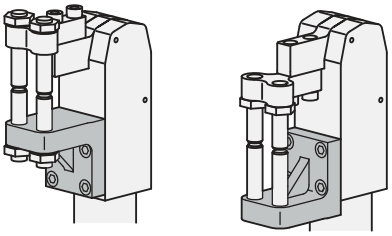
- ISO-Fundamental Tolerances (see page A21)



Mounting examples



Type **E**



Type **Z**

GN 867.1

Description	b -0.2	d1	d2 H8/h6	d3	h1	h2	l1	l2	l3	l4	m1	m2	m3	m4	m5	⚖
GN 867.1-32-M8-E	32	M 8	7	M 5	10	10	38	17	37	7.5	22	17	15	31.5	-	120
GN 867.1-42-M10-E	42	M 10	9	M 6	12	12	54.5	17	50.5	10	30	25	19.5	45.9	-	295
GN 867.1-52-M12-E	52	M 12	11	M 8	14	14	63	17	61	13.5	37	30	23.5	53	-	500
GN 867.1-62-M12-E	62	M 12	13	M 10	16	16	73.5	20	83	13.5	44	47	27	63.5	-	670
GN 867.1-32-M8-Z	32	M 8	7	M 5	10	10	38	-	37	7.5	22	17	15	31.5	17	152
GN 867.1-42-M10-Z	42	M 10	9	M 6	12	12	54.5	-	50.5	10	30	25	19.5	45.9	23	380
GN 867.1-52-M12-Z	52	M 12	11	M 8	14	14	63	-	61	13.5	37	30	23.5	53	30	655
GN 867.1-62-M12-Z	62	M 12	13	M 10	16	16	73.5	-	83	13.5	44	47	27	63.5	40	864

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GN 868

T-coupling / double post coupling accessories

SPECIFICATION

Types

- Type **R**: Clamping jaws at right angle to clamping arm
- Type **P**: Clamping jaws parallel to clamping arm

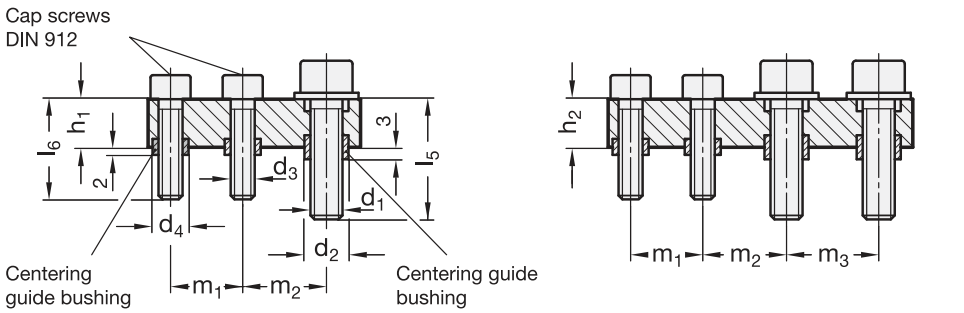
Steel C45
blackened

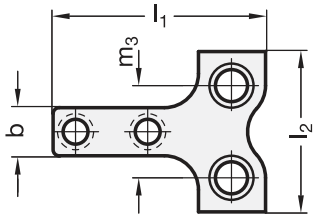
INFORMATION

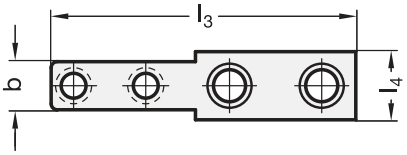
GN 868 T-coupling / double post coupling accessories are suitable for the clamping arms of the GN 864 (see page 1634)/ GN 865 (see page 1635) / GN 866 (see page 1636) pneumatic fastening clamps. T-coupling accessories are equally precisely positioned on the clamping arm as are the GN 872 (see page 1643) jaw block accessories on the holders themselves.
Cap screws and centering guide bushing accessories are included.

TECHNICAL INFORMATION

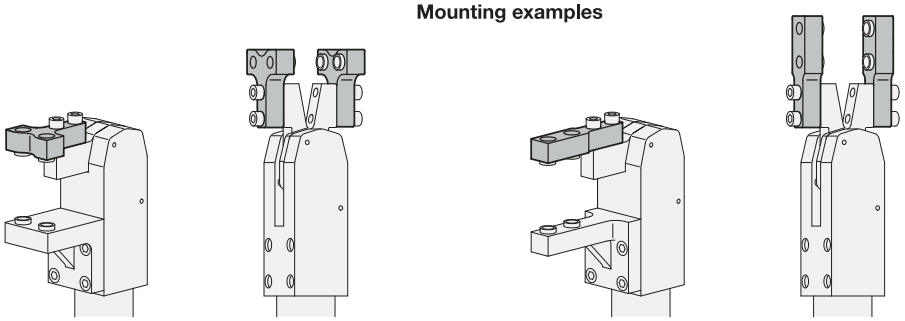
- ISO-Fundamental Tolerances (see page A21)







Mounting examples



Type **R** Type **P**

GN 868

Description	b -0.2	d1	d2 H8/h6	d3	d4 H8/h6	h1	h2	l1	l2	l3	l4	l5	l6	m1	m2	m3	⚖
GN 868-10-P	10	M 6	9	M 5	7	-	10	-	-	54	13	18.5	19.5	12	14.5	17	30
GN 868-12-P	12	M 8	11	M 6	9	-	14	-	-	76	17	23.5	29.5	18	20.9	23	80
GN 868-16-P	16	M 10	13	M 8	11	-	16	-	-	93	20	28	34	22	23.5	30	170
GN 868-18-P	18	M 10	13	M 10	13	-	18	-	-	113	20	28	34	27	28.5	40	250
GN 868-10-R	10	M 6	9	M 5	7	10	-	37	30	-	-	18.5	19.5	12	14.5	17	33
GN 868-12-R	12	M 8	11	M 6	9	12	-	53	40	-	-	23.5	29.5	18	20.9	23	120
GN 868-16-R	16	M 10	13	M 8	11	14	-	63	50	-	-	28	34	22	23.5	30	190
GN 868-18-R	18	M 10	13	M 10	13	16	-	73	60	-	-	28	34	27	28.5	40	200

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Bracket / double post bracket accessories

Static holders

SPECIFICATION

Types

- Type **R**: Clamping jaws at right angle to clamping arm
- Type **P**: Clamping jaws parallel to clamping arm

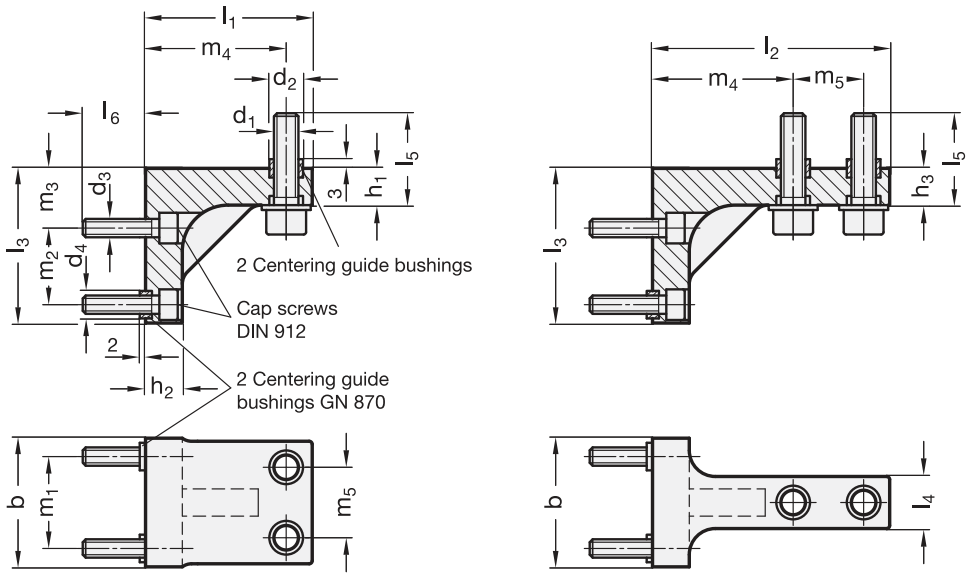
Steel C45
blackened

INFORMATION

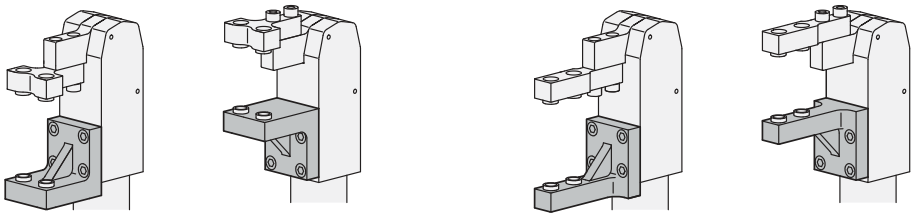
GN 868.1 bracket / double post bracket accessories have been designed for use with GN 864 (see page 1634) pneumatic fastening clamps .
Bracket / double post bracket accessories are equally precisely positioned on the clamping arm as are the GN 872 (see page 1643) jaw block accessories on the holders themselves.
Cap screws and centering guide bushing accessories are included.

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)



Mounting examples



Type **R** Type **P**

GN 868.1

Description	b -0.2	d1	d2 H8/h6	d3	d4 H8/h6	h1	h2	h3	l1	l2	l3	l4	l5	l6	m1	m2	m3	m4	m5	⚖
GN 868.1-32-R	32	M 6	9	M 5	7	10	-	-	38	-	37	-	18.5	7.5	22	17	15	31.5	-	170
GN 868.1-42-R	42	M 8	11	M 6	9	12	-	-	54.5	-	50.5	-	23.5	10	30	25	19.5	45.9	-	360
GN 868.1-52-R	52	M 10	13	M 8	11	14	-	-	63	-	61	-	28	13.5	37	30	23.5	53	-	650
GN 868.1-62-R	62	M 10	13	M 10	13	16	-	-	73.5	-	83.5	-	27	13.5	44	47	27	62.5	-	730
GN 868.1-32-P	32	M 6	9	M 5	7	-	10	10	-	55	37	13	18.5	7.5	22	17	15	31.5	17	190
GN 868.1-42-P	42	M 8	11	M 6	9	-	12	14	-	77.5	50.5	17	23.5	10	30	25	19.5	45.9	23	280
GN 868.1-52-P	52	M 10	13	M 8	11	-	14	16	-	93	61	20	28	13.5	37	30	23.5	53	30	450
GN 868.1-62-P	62	M 10	13	M 10	13	-	16	18	-	113.5	85.5	20	29	13.5	44	47	27	62.5	40	780

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GN 869.1

Single post bracket / Y-bracket accessories

for clamping bolts

SPECIFICATION

Types

- Type **E**: for one clamping bolt
- Type **Z**: for two clamping bolts

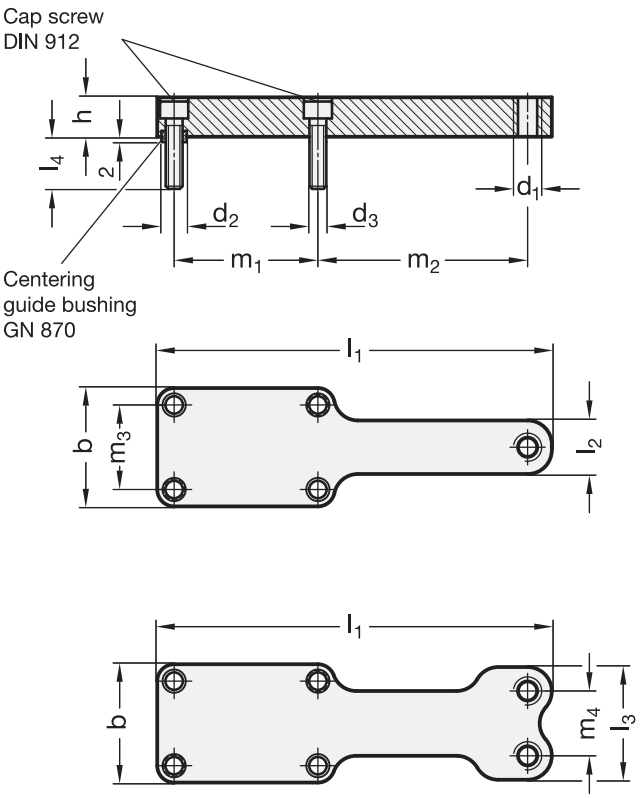
Steel C45
blackened

INFORMATION

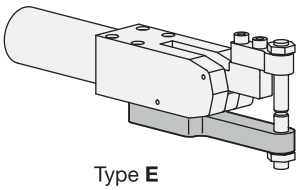
GN 869.1 single post bracket / Y-bracket accessories have been designed for use with GN 865 (see page 1635) pneumatic fastening clamps .
Y-bracket accessories for two clamping bolts (Type Z) are preferably used in such applications where absolutely rigid clamping of a sheet metal component is essential. For the same purpose GN 605 (see page 928) ball point screws with serrated ball pads are ideally suited. Cap screws and centering guide bushing accessories are included.

TECHNICAL INFORMATION

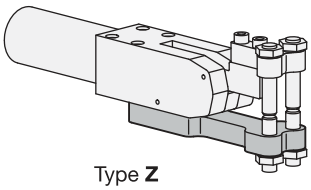
- ISO-Fundamental Tolerances (see page A21)



Mounting examples



Type **E**



Type **Z**

GN 869.1

Description	b	d1	d2 H8/h6	d3	h	l1	l2	l3	l4	m1	m2	m3	m4	⚖
GN 869.1-32-E	32	M 8	7	M 5	10	98.5	15	-	8	34	53	22	-	130
GN 869.1-42-E	42	M 10	9	M 6	14	140	19	-	8.5	51	74.4	30	-	220
GN 869.1-52-E	52	M 12	11	M 8	16	168	22	-	12.5	62	88.5	37	-	380
GN 869.1-62-E	62	M 12	13	M 10	18	192.5	22	-	12.5	71.5	102	44	-	690
GN 869.1-32-Z	32	M 8	7	M 5	10	98.5	-	30	8	34	53	22	17	150
GN 869.1-42-Z	42	M 10	9	M 6	14	140	-	40	8.5	51	74.4	30	23	410
GN 869.1-52-Z	52	M 12	11	M 8	16	168	-	50	12.5	62	88.5	37	30	900
GN 869.1-62-Z	62	M 12	13	M 10	18	192.5	-	60	12.5	71.5	102	44	40	1020

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T-bracket / double post bracket accessories

Static holder

SPECIFICATION

Types

- Type **R**: Clamping jaws at right angle to clamping arm
- Type **P**: Clamping jaws parallel to clamping arm

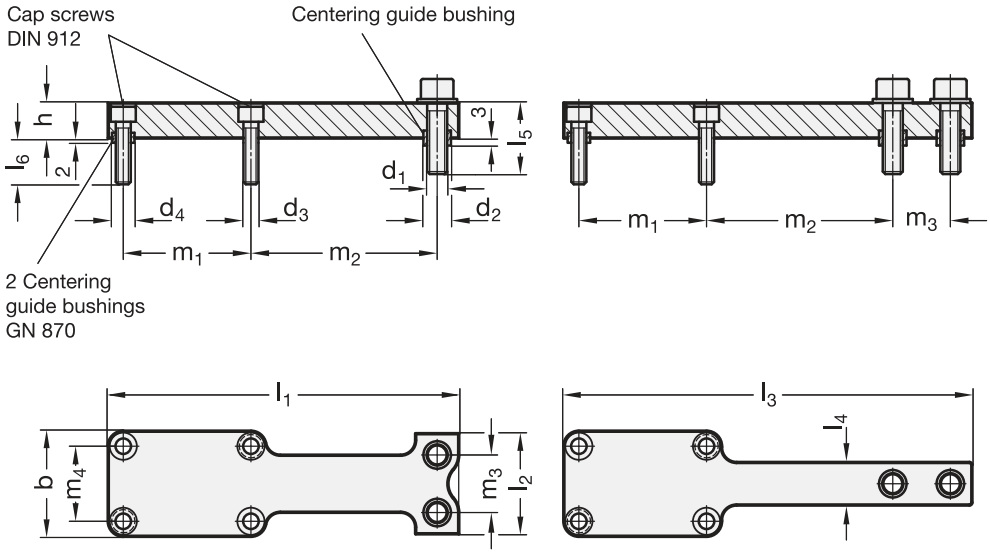
Steel C45
blackened

INFORMATION

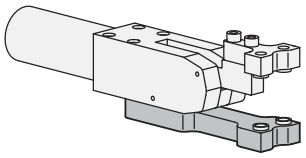
GN 869.2 T-bracket / double post bracket accessories have been designed for use with GN 865 (see page 1635) pneumatic fastening clamps.
T-bracket / double post bracket accessories are equally precisely positioned on the clamping arm as are the GN 872 (see page 1643) jaw block accessories on the holders themselves. Cap screws and centering guide bushing accessories are included.

TECHNICAL INFORMATION

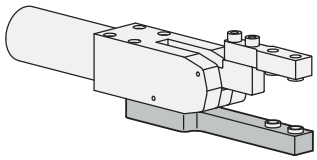
- ISO-Fundamental Tolerances (see page A21)



Mounting examples



Type **R**



Type **P**

GN 869.2

Description	b -0.2	d1	d2 H8/ h6	d3	d4 H8/ h6	h	l1	l2	l3	l4	l5	l6	m1	m2	m3	m4	⚖
GN 869.2-32-P	32	M 6	9	M 5	7	10	-	-	115.5	13	18.5	8	34	53	17	22	150
GN 869.2-42-P	42	M 8	11	M 6	9	14	-	-	163	17	23.5	8.5	51	74.4	23	30	370
GN 869.2-52-P	52	M 10	13	M 8	11	16	-	-	198	20	28	12.5	62	88.5	30	37	720
GN 869.2-62-P	62	M 10	13	M 10	13	18	-	-	232.5	20	28	12.5	71.5	102	40	44	770
GN 869.2-32-R	32	M 6	9	M 5	7	10	98.5	30	-	-	18.5	8	34	53	17	22	150
GN 869.2-42-R	42	M 8	11	M 6	9	14	140	40	-	-	23.5	8.5	51	74.4	23	30	400
GN 869.2-52-R	52	M 10	13	M 8	11	16	168	50	-	-	28	12.5	62	88.5	30	37	900
GN 869.2-62-R	62	M 10	13	M 10	13	18	192.5	60	-	-	28	12.5	71.5	102	40	44	1030

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GN 872

Jaw block accessories

for GN 864 / GN 865 / GN 866 pneumatic fastening clamps

SPECIFICATION

Steel C45
blackened

INFORMATION

GN 872 jaw block accessories are manufactured to meet the dimensions of the accessories for clamping arms and static holders. GN 870 (see page 1645) centering guide bushing accessories are **not** included.

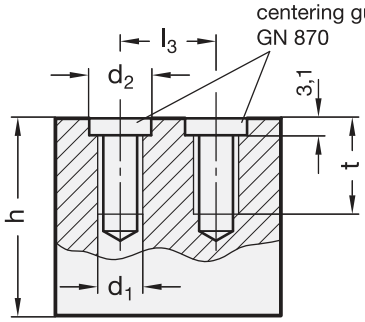
ACCESSORY

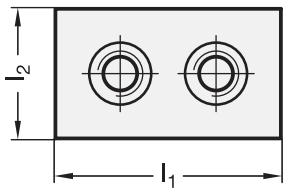
- GN 870 centering guide bushing accessories (see page 1645)

TECHNICAL INFORMATION

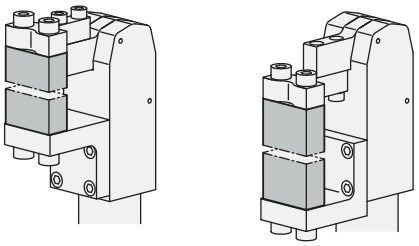
- ISO-Fundamental Tolerances (see page A21)

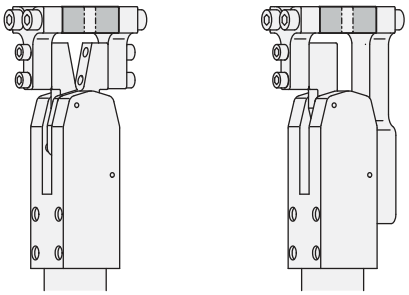
Drillings for centering guide bushings GN 870





Mounting examples





GN 872

Description	l1	h	d1	d2 H8/h6	l2	l3 ±0.01	t	⚖
GN 872-30-25	30	25	M 6	9	13	17	8	80
GN 872-30-50	30	50	M 6	9	13	17	8	150
GN 872-40-35	40	35	M 8	11	17	23	12	180
GN 872-40-70	40	70	M 8	11	17	23	12	370
GN 872-50-45	50	45	M 10	13	20	30	15	350
GN 872-50-80	50	80	M 10	13	20	30	15	620
GN 872-60-50	60	50	M 10	13	20	40	15	470
GN 872-60-85	60	85	M 10	13	20	40	15	800

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Clamp mounting bracket accessories

for GN 864 / GN 865 / GN 866 pneumatic fastening clamps

SPECIFICATION

Aluminium
black anodized

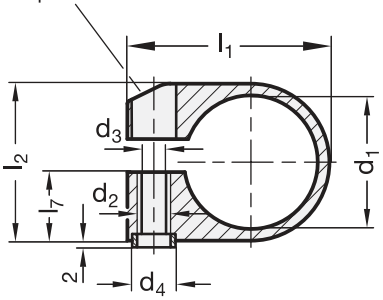
INFORMATION

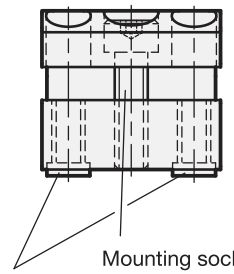
GN 873 clamp mounting bracket accessories greatly increase the mounting possibilities and, with that, the field of applications for pneumatic fastening clamps is vastly increased.
The abutting shoulder can be used for precise positioning of the pneumatic fastening clamps thus allowing a problem free exchange of the latter.
The use of the two centering guide bushing accessories ensures an exact and stable installation of the clamp mounting bracket accessories as well as the pneumatic fastening clamps.
Other clamp mounting bracket accessories for the sizes d_1 = 40 (piston Ø 20) and d_1 = 50 (piston Ø 40) are shown under the tube clamp connector range.
Centering guide bushing accessories are included.

TECHNICAL INFORMATION

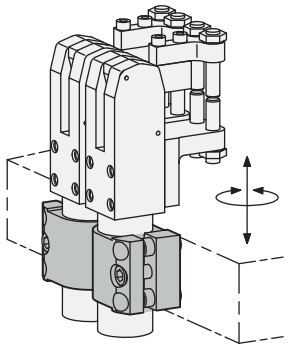
- ISO-Fundamental Tolerances (see page A21)

Drilling for cap screw DIN 912

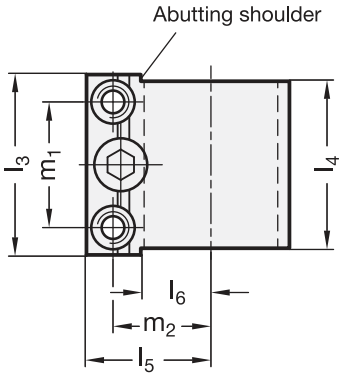


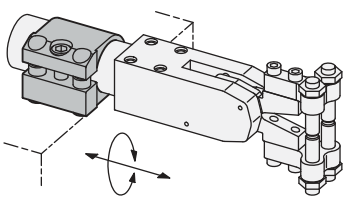


Mounting examples



Abutting shoulder





GN 873

Description	d1	d2	d3	d4 H8/h6	l1	l2	l3	l4	l5	l6	l7	m1	m2	⚖
GN 873-28	28	M 8	6.5	11	51.35	38	39	36	35	16	16	26	25.85	200
GN 873-40	40	M 10	8.5	13	61.35	48	54	51	39	21	21	38	29.35	560
GN 873-50	50	M 12	10.5	16	72.35	58	64	61	47	26	26	45	33.85	800

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GN 870

Centering guide bushing accessories

for pneumatic fastening clamps

SPECIFICATION

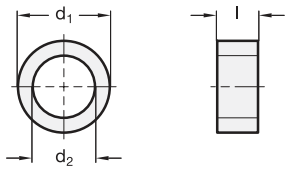
Steel
blackened

INFORMATION

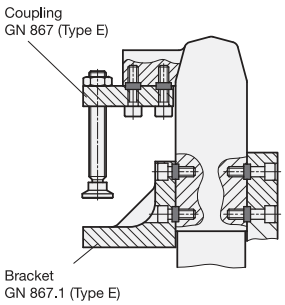
GN 870 centering guide bushing accessories ensure accurate location of the jaw block accessories and static holders, as well as the pneumatic fastening clamps.
At the same time they absorb side thrust and eliminate excessive load on the mounting screws.

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)



Examples of application



GN 870

Description	d1 h6	d2	l	⚖
GN 870-7	7	5.1	4	1
GN 870-9	9	6.1	4	1
GN 870-11	11	8.1	4	1
GN 870-13	13	10.1	4	2

GN 871

Shim kit accessories

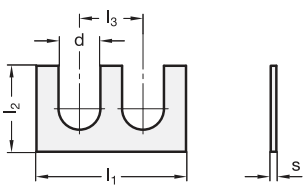
for jaw block accessories

SPECIFICATION

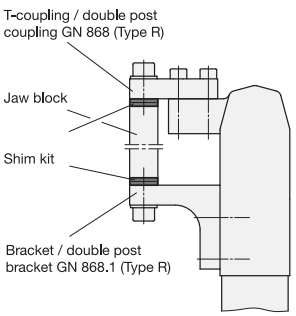
Steel
blackened

INFORMATION

GN 871 shim kit accessories are used to correct any discrepancy in the alignment of the two clamping jaw levels.
This facilitates in a simple way the optimum clamping position of the jaws, i. e. also the optimal clamping force.
The shim kit accessories are only available as a complete set of five of different thicknesses for each size.



Examples of application



GN 871

Description	l1	s	d	l2	l3	⚖
GN 871-30	30	0.1 | 0.2 | 0.3 | 0.5 | 1	9.2	13	17	1
GN 871-40	40	0.1 | 0.2 | 0.3 | 0.5 | 1	11.2	17	23	1
GN 871-50	50	0.1 | 0.2 | 0.3 | 0.5 | 1	13.2	20	30	2
GN 871-60	60	0.1 | 0.2 | 0.3 | 0.5 | 1	13.2	20	40	4

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Proximity switch

for pneumatic fastening clamps, inductive sensor

SPECIFICATION

Voltage range: 10 to 30 VDC
Switch load: 0 to 100 mA
Voltage drop: ≤ 2 V
Temperature range: 0 °C to 50 °C
Protection class: IP 65
LED-Indication:

- green: operating voltage
- red: switch position closed
- yellow: switch position open

INFORMATION

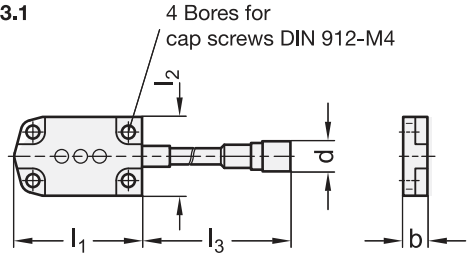
With these GN 893.1, GN 893.2, GN 893.3 and GN 893.4 proximity switches pneumatic fastening clamps can induce controlled signals whereby the LEDs indicate the operating and switch positions.
The proximity switches can be screwed directly on to the pneumatic fastening clamps. The position of the switches can be on either side.
A plastic intermediate plate and two cap screws M4 are included.

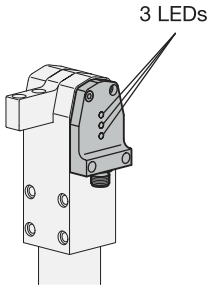
ACCESSORY

Cable with connector
4-pole, 5 or 10 meters long:

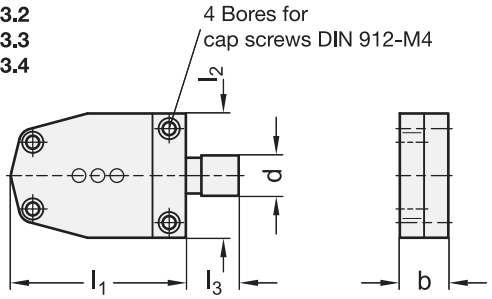
- GN 330-M12x1-4-G-5 (see page 1448)
- GN 330-M12x1-4-G-10 (see page 1448)

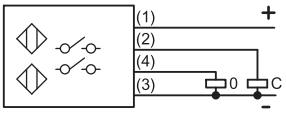
GN 893.1





GN 893.2
GN 893.3
GN 893.4





GN 893.1 / GN 893.2 / GN 893.3 / GN 893.4

Pneumatic fastening clamps	Proximity switch	b	d Connector 4-pole	l1 -0.2	l2	l3	⚖
GN 864-20-BL	GN 893.1	8	M 12 x 1	42	26	110 (PVC cable)	20
GN 864-32-BL	GN 893.2	16	M 12 x 1	57.5	41	10	26
GN 864-40-BL	GN 893.3	16	M 12 x 1	73	48	10	31
GN 864-50-BL	GN 893.4	16	M 12 x 1	73	48	10	31
GN 865-20-BI	GN 893.1	8	M 12 x 1	42	26	110 (PVC cable)	20
GN 865-32-BI	GN 893.2	16	M 12 x 1	57.5	41	10	26
GN 865-40-BI	GN 893.3	16	M 12 x 1	73	48	10	31
GN 865-50-BI	GN 893.4	16	M 12 x 1	73	48	10	31
GN 866-20-BC	GN 893.1	8	M 12 x 1	42	26	110 (PVC cable)	20
GN 866-32-BC	GN 893.2	16	M 12 x 1	57.5	41	10	26
GN 866-40-BC	GN 893.3	16	M 12 x 1	73	48	10	31

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Toggle latches

Steel / Stainless Steel

SPECIFICATION

Types

- Type **A**: without spring cotter pin
- Type **B**: with spring cotter pin

Version in Steel ST
zinc plated, blue passivated

Version in Stainless Steel NI
AISI 304

INFORMATION

The outstanding features of GN 8330 toggle latches are superior functionality and design. The integrated spring mechanism holds the locking lever and the clamping hook in the open position and allows effortless operation.
Once the dead center is exceeded, the elasticity of the sheet metal parts will cause the toggle latch to close. In the clamped position, the required drill hole spacing is m_2.
With the stroke w of the clamping hook, the elements to be connected can be pulled together during clamping.
The toggle latch can be secured against opening inadvertently with the so-called spring cotter pin. The spring cotter pin is placed into the d_2 bore hole. Sealing is also possible via d_2.
The retaining force given in the table is a guide value for the potentially static tensile stress load acting on the toggle latch. Depending on the conditions of use (e.g. when exposed to vibrations or shock impact), the retaining force may be impaired.
Screws with low-lying flat head must be used to guarantee the proper function. The drill template also allows the assembly using blank rivets.

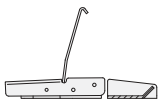
ON REQUEST

- GN 8330.1 spring cotter pin

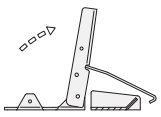
TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)

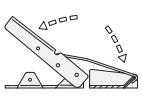
DESCRIPTION OF FUNCTION



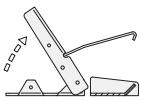
If not operated (i.e. not in the clamping position), both the locking lever and the clamping hook are held in the position shown, kept in place by two torsion springs.



Lifting the clamping lever will swivel the clamping hook into the level of the catch bracket.



For the clamping action, the clamping hook is pressed into the catch bracket and the locking lever is at the same time turned into the starting (retaining) position.



To release, simply lift the locking lever.

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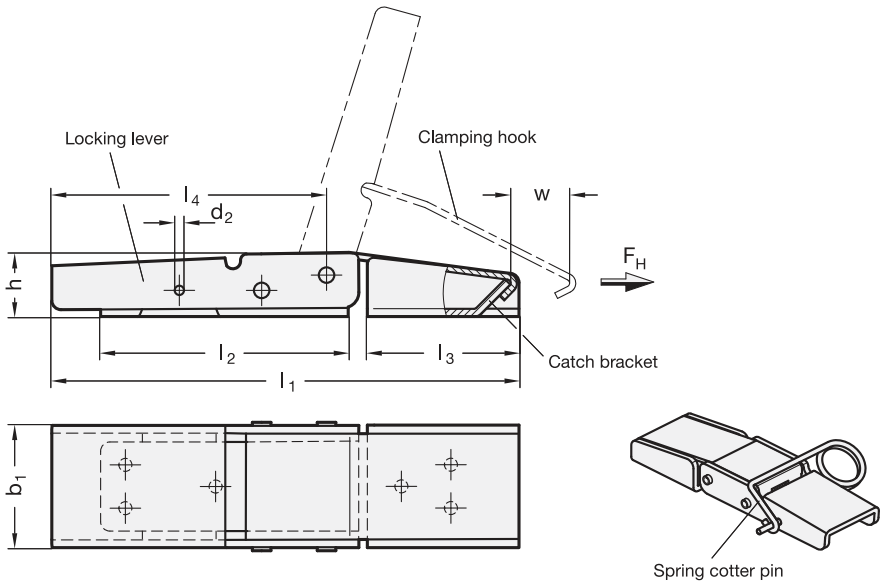
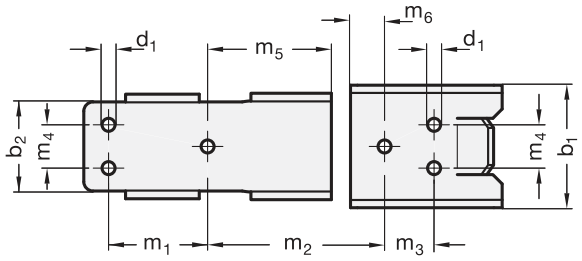
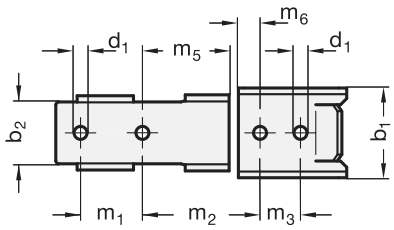
GN 8330 | Toggle latches



Hole pattern for b_1 = 40



Hole pattern for b_1 = 15 / 20 / 29



GN 8330

Description	b1	FH in N	b2	d1	d2	h	l1 ≈	l2	l3	l4	m1	m2	m3	m4	m5	m6	w ≈	⚖
GN 8330-15-ST-A	15	100	9.5	3.4	1.4	8	53	25	17	31.5	9.5	13.5	6.2	-	8.5	3	11	16
GN 8330-20-ST-A	20	300	13	3.4	1.8	10	76	34	25	44	8	29	8	-	22	4	9	35
GN 8330-29-ST-A	29	600	20	4.2	2.5	15	111	56	35	67	20	38.8	13	-	28	7	11	123
GN 8330-40-ST-A	40	1200	29	4.2	3	20	152	80	49	89	32	57.3	16	14	40	11	19	289
GN 8330-15-ST-B	15	100	9.5	3.4	1.4	8	53	25	17	31.5	9.5	13.5	6.2	-	8.5	3	11	17
GN 8330-20-ST-B	20	300	13	3.4	1.8	10	76	34	25	44	8	29	8	-	22	4	9	36
GN 8330-29-ST-B	29	600	20	4.2	2.5	15	111	56	35	67	20	38.8	13	-	28	7	11	128
GN 8330-40-ST-B	40	1200	29	4.2	3	20	152	80	49	89	32	57.3	16	14	40	11	19	294

GN 8330-NI

STAINLESS STEEL

Description	b1	FH in N	b2	d1	d2	h	l1 ≈	l2	l3	l4	m1	m2	m3	m4	m5	m6	w ≈	⚖
GN 8330-15-NI-A	15	100	9.5	3.4	1.4	8	53	25	17	31.5	9.5	13.5	6.2	-	8.5	3	11	15
GN 8330-20-NI-A	20	300	13	3.4	1.8	10	76	34	25	44	8	29	8	-	22	4	9	37
GN 8330-29-NI-A	29	600	20	4.2	2.5	15	111	56	35	67	20	38.8	13	-	28	7	11	117
GN 8330-40-NI-A	40	1200	29	4.2	3	20	152	80	49	89	32	57.3	16	14	40	11	19	281
GN 8330-15-NI-B	15	100	9.5	3.4	1.4	8	53	25	17	31.5	9.5	13.5	6.2	-	8.5	3	11	17
GN 8330-20-NI-B	20	300	13	3.4	1.8	10	76	34	25	44	8	29	8	-	22	4	9	38
GN 8330-29-NI-B	29	600	20	4.2	2.5	15	111	56	35	67	20	38.8	13	-	28	7	11	122
GN 8330-40-NI-B	40	1200	29	4.2	3	20	152	80	49	89	32	57.3	16	14	40	11	19	286

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Toggle latches

Steel / Stainless Steel

SPECIFICATION

Types

- Type **A**: without safety catch
- Type **S**: with safety catch
- Type **SV**: for safety catch with padlock
- Type **SS**: with key lock

Identification No.

- No. **1**: long Type
- No. **2**: short Type

Version in Steel ST
zinc plated, blue passivated

Version in Stainless Steel NI
only Type A, S and SV

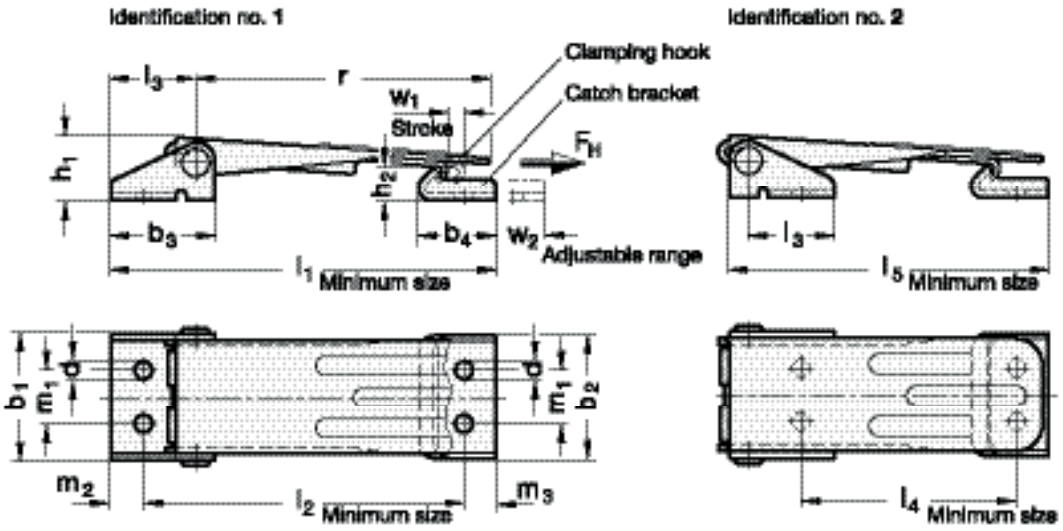
- Parts in sheet metal AISI 304
- Clamping hook / pin AISI 303

INFORMATION

GN 821 toggle latches are used among others for the secure holding of flaps and container lids. The clamps will lock securely over the centre and are thus vibration proof.
The stroke w_1 of the clamping hook can pull the parts to be clamped together by up to 6 mm. The range w_2 can be adjusted on the M6 threaded spindle at the clamping hook.
The types S, SV and SS prevent unwanted release of the toggle latches.
In the standard version the toggle latches of type SS have the same lock and / or the same key.
The load specified in the table are simply guide line values for a nominal static pulling force which the lock can withstand. Depending on the conditions under which these toggle latches are used such as vibration or shock loads, the holding capacity can be adversely affected.
The catch bracket is included.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)



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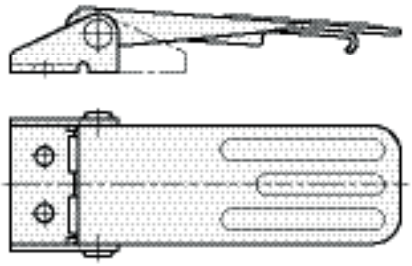
GN 821

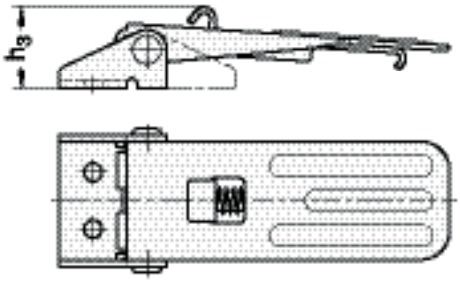
Toggle latches

The respective long versions (identification no. 1) are pictured

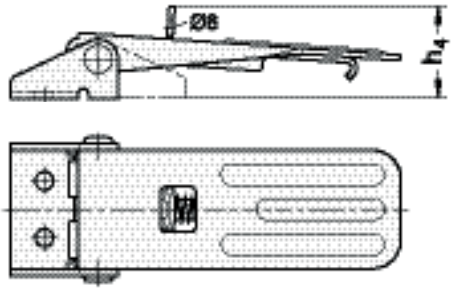
Form A
without safety catch



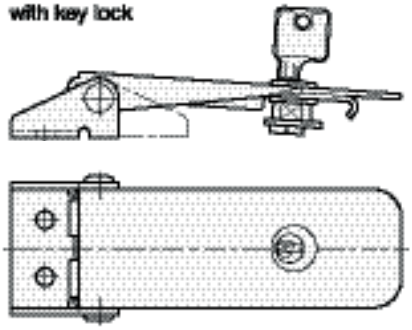
Form B
with safety catch



Type SV
with padlock



Type SS
with key lock



GN 821

Description	Size	FH in N	b1	b2	b3	b4	h1	h2	h3	h4	l1 min.	l2 min.	l3	l4 min.	l5 min.	d	m1	m2	m3	r	w1 ≈	w2 ≈	⚖
GN 821-400-A-ST-1	400	4000	46.5	45	38	27	22	12	-	-	144	120.5	32	-	-	6.3	20	12	11.5	107.5	6.5	15	213
GN 821-400-A-ST-2	400	4000	46.5	45	38	27	22	12	-	-	-	-	32	80.5	118	6.3	20	12	11.5	107.5	6.5	15	210
GN 821-400-S-ST-1	400	4000	46.5	45	38	27	22	12	28.5	-	147	123.5	32	-	-	6.3	20	12	11.5	107.5	6.5	8	220
GN 821-400-S-ST-2	400	4000	46.5	45	38	27	22	12	28.5	-	-	-	32	83.5	121	6.3	20	12	11.5	107.5	6.5	8	204
GN 821-400-SV-ST-1	400	4000	46.5	45	38	27	22	12	-	32.5	144	120.5	32	-	-	6.3	20	12	11.5	107.5	6.5	15	220
GN 821-400-SV-ST-2	400	4000	46.5	45	38	27	22	12	-	32.5	-	-	32	80.5	118	6.3	20	12	11.5	107.5	6.5	15	220
GN 821-400-SS-ST-1	400	4000	46.5	45	38	27	22	12	28.5	32.5	147	123.5	32	-	-	6.3	20	12	11.5	107.5	6.5	8	240
GN 821-400-SS-ST-2	400	4000	46.5	45	38	27	22	12	28.5	32.5	-	-	32	83.5	121	6.3	20	12	11.5	107.5	6.5	8	240

GN 821-NI

STAINLESS STEEL

Description	Size	FH in N	b1	b2	b3	b4	h1	h2	h3	h4	l1 min.	l2 min.	l3	l4 min.	l5 min.	d	m1	m2	m3	r	w1 ≈	w2 ≈	⚖
GN 821-400-A-NI-1	400	4000	46.5	45	38	27	22	12	-	-	144	120.5	32	-	-	6.3	20	12	11.5	107.5	6.5	15	220
GN 821-400-A-NI-2	400	4000	46.5	45	38	27	22	12	-	-	-	-	32	80.5	118	6.3	20	12	11.5	107.5	6.5	15	208
GN 821-400-S-NI-1	400	4000	46.5	45	38	27	22	12	28.5	-	147	123.5	32	-	-	6.3	20	12	11.5	107.5	6.5	8	220
GN 821-400-S-NI-2	400	4000	46.5	45	38	27	22	12	28.5	-	-	-	32	83.5	121	6.3	20	12	11.5	107.5	6.5	8	218
GN 821-400-SV-NI-1	400	4000	46.5	45	38	27	22	12	-	32.5	144	120.5	32	-	-	6.3	20	12	11.5	107.5	6.5	15	220
GN 821-400-SV-NI-2	400	4000	46.5	45	38	27	22	12	-	32.5	-	-	32	80.5	118	6.3	20	12	11.5	107.5	6.5	15	220

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Toggle latches

Steel / Stainless Steel

SPECIFICATION

Types

- Type **A**: without safety catch
- Type **S**: with safety catch
- Type **SV**: for safety catch with padlock

Identification No.

- No. **1**: long Type
- No. **2**: short Type

Version in Steel ST

zinc plated, blue passivated

Version in Stainless Steel NI

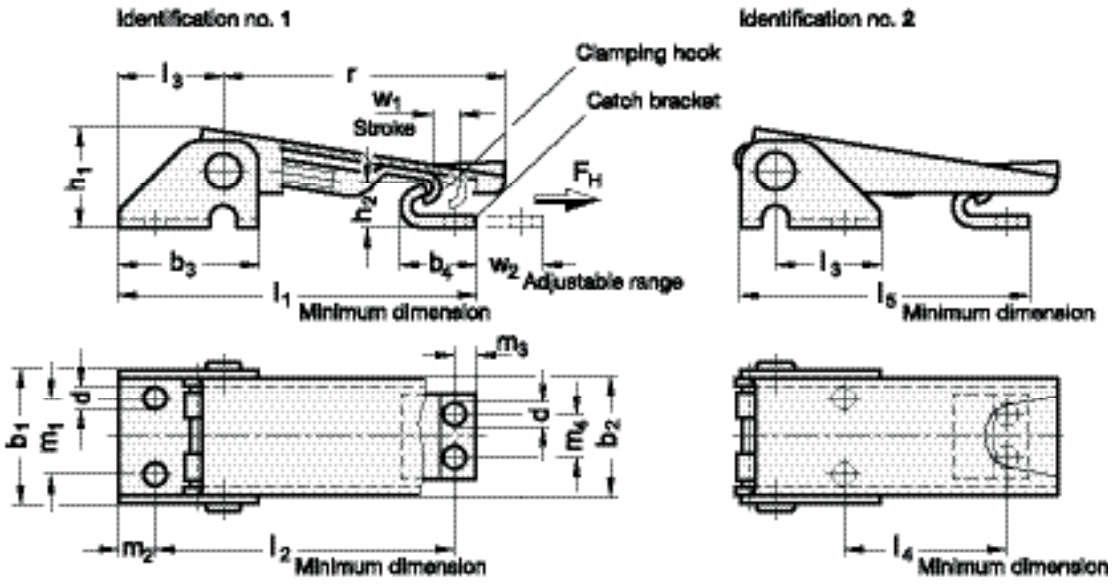
- Parts in sheet metal AISI 304
- Clamping hook / pin AISI 303

INFORMATION

GN 831 toggle latches are used among others for the secure holding of flaps and container lids. The clamps will lock securely over the centre and are thus vibration proof.
The stroke w_1 of the clamping hook can pull the parts to be clamped together by up to 6 mm. The range w_2 can be adjusted on the M6 threaded spindle at the clamping hook.
The types S and SV prevent unwanted release of the toggle latch.
Screws with low head height such as DIN 6912 are used to fix the toggle latches.
The load specified in the table are simply guide line values for a nominal static pulling force which the lock can withstand. Depending on the conditions under which these toggle latches are used such as vibration or shock loads, the holding capacity can be adversely affected.
The catch bracket is included.

TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)



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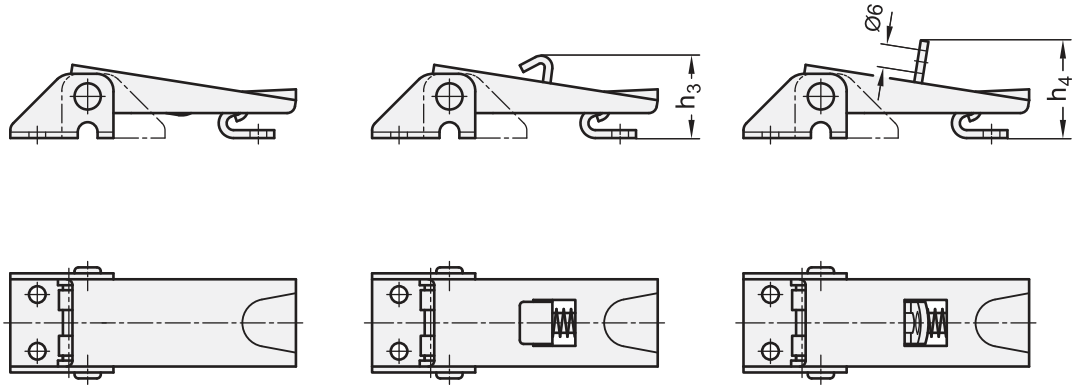
GN 831 | Toggle latches

The respective long versions (Identification no. 1) are pictured

Type **A**
without safety catch

Type **S**
with safety catch

Type **SV**
for safety with padlock



GN 831

Description	Size	FH in N	b1	b2	b3	b4	d	h1	h2	h3	h4	l1 min.	l2 min.	l3	l4 min.	l5 min.	m1	m2	m3	m4	r	w1 ≈	w2 ≈	⚖
GN 831-100-A-ST-1	100	1000	25.5	22	26	14	4.2	18.5	8.5	-	-	67	56	19.5	-	-	14.3	7	4	8	51	5.5	12	55
GN 831-100-A-ST-2	100	1000	25.5	22	26	14	4.2	18.5	8.5	-	-	-	-	19.5	31	54	14.3	7	4	8	51	5.5	12	40
GN 831-100-S-ST-1	100	1000	25.5	22	26	14	4.2	18.5	8.5	21.5	-	74	63	19.5	-	-	14.3	7	4	8	51	5.5	8	60
GN 831-100-S-ST-2	100	1000	25.5	22	26	14	4.2	18.5	8.5	21.5	-	-	-	19.5	38	61	14.3	7	4	8	51	5.5	8	58
GN 831-100-SV-ST-1	100	1000	25.5	22	26	14	4.2	18.5	8.5	-	25.5	67	56	19.5	-	-	14.3	7	4	8	51	5.5	12	55
GN 831-100-SV-ST-2	100	1000	25.5	22	26	14	4.2	18.5	8.5	-	25.5	-	-	19.5	31	54	14.3	7	4	8	51	5.5	12	55

GN 831-NI **STAINLESS STEEL**

Description	Size	FH in N	b1	b2	b3	b4	d	h1	h2	h3	h4	l1 min.	l2 min.	l3	l4 min.	l5 min.	m1	m2	m3	m4	r	w1 ≈	w2 ≈	⚖
GN 831-100-A-NI-1	100	1000	25.5	22	26	14	4.2	18.5	8.5	-	-	67	56	19.5	-	-	14.3	7	4	8	51	5.5	12	54
GN 831-100-A-NI-2	100	1000	25.5	22	26	14	4.2	18.5	8.5	-	-	-	-	19.5	31	54	14.3	7	4	8	51	5.5	12	54
GN 831-100-S-NI-1	100	1000	25.5	22	26	14	4.2	18.5	8.5	21.5	-	74	63	19.5	-	-	14.3	7	4	8	51	5.5	8	50
GN 831-100-S-NI-2	100	1000	25.5	22	26	14	4.2	18.5	8.5	21.5	-	-	-	19.5	38	61	14.3	7	4	8	51	5.5	8	49
GN 831-100-SV-NI-1	100	1000	25.5	22	26	14	4.2	18.5	8.5	-	25.5	67	56	19.5	-	-	14.3	7	4	8	51	5.5	12	57
GN 831-100-SV-NI-2	100	1000	25.5	22	26	14	4.2	18.5	8.5	-	25.5	-	-	19.5	31	54	14.3	7	4	8	51	5.5	12	55

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Hook clamps

Steel or stainless steel

STANDARD EXECUTIONS

- **TLA**: basic hook clamp.
- **TLAL**: hook clamp with padlock hole.
- **TLAS**: hook clamp with security stop and technopolymer push button in RAL 3000 red colour or with stainless steel spring.

Indexes for materials and treatments to add to the above-mentioned standard executions:

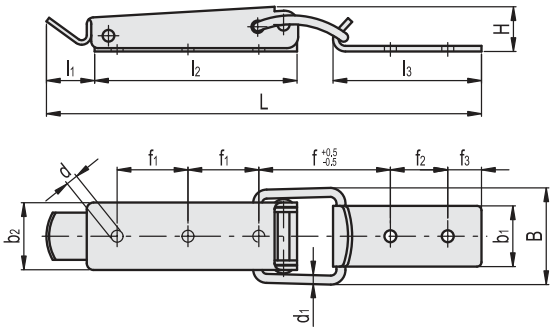
- **Z**: lever body and bracket in zinc-plated steel.
- **SST**: lever body and bracket in AISI 304 stainless steel.
- **NH**: lever body and bracket in nickel-plated steel.

SPECIAL EXECUTIONS ON REQUEST

- Hook clamps in unplated steel.
- Catch brackets in different shapes and finishes.

Radial strength tests

TLA
TLA.SST



TLA.Z

Code	Description	b2	L	B	H	d	d1	b1	l1	l2	l3	f	f1	f2	f3	Max. working load [N]	Load at breakage [N]	⚖
420081	TLA.Z-16.4/102+R	16.4	102	23	11	3.2	2	13	16	44	30	34.5	12.5	12	5	550	1200	31
420061	TLA.Z-23/140.5+R	23	140.5	34	12.5	4.1	3	19	16	70	43	38	22.5	20	8	1500	3000	78
420051	TLA.Z-30/193.5+R	30	193.5	43	19	5.3	4	27	21.5	90	66	58.5	31.5	25.5	15	2000	4000	188

TLA.SST

STAINLESS STEEL

Code	Description	b2	L	B	H	d	d1	b1	l1	l2	l3	f	f1	f2	f3	Max. working load [N]	Load at breakage [N]	⚖
420082	TLA.SST-16.4/102+R	16.4	102	23	11	3.2	2	13	16	44	30	34.5	12.5	12	5	550	1200	31
420062	TLA.SST-23/140.5+R	23	140.5	34	12.5	4.1	3	19	16	70	43	38	22.5	20	8	1500	3000	78
420052	TLA.SST-30/193.5+R	30	193.5	43	19	5.3	4	27	21.5	90	66	58.5	31.5	25.5	15	2000	4000	188

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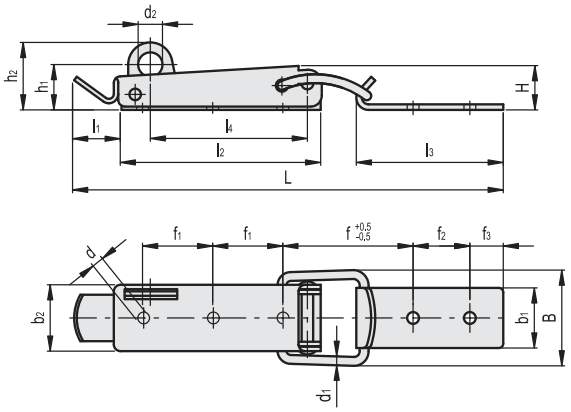
TLAL
TLAL.SST



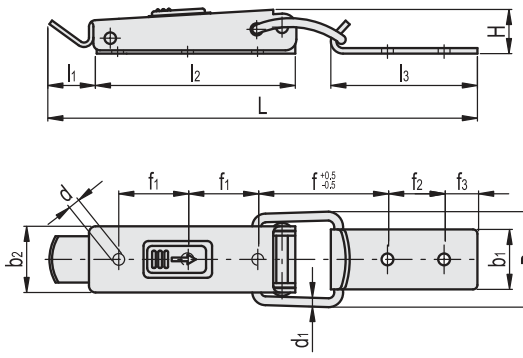
TLAL.Z

Code	Description	b2	L	B	H	d	d1	d2	b1	l1	l2	l3	l4	f	f1	f2	f3	h1	h2	Max. working load [N]	Load at breakage [N]	⚖
420085	TLAL.Z-16.4/102+R	16.4	102	23	11	3.2	2	4	13	16	44	30	34.5	34.5	12.5	12	5	11.5	15.5	550	1200	32
420063	TLAL.Z-23/140.5+R	23	140.5	34	12.5	4.1	3	7	19	16	70	43	55	38	22.5	20	8	13	20	1500	3000	79
420053	TLAL.Z-30/193.5+R	30	193.5	43	19	5.3	4	11	27	21.5	90	66	71	58.5	31.5	25.5	15	20.5	30.5	2000	4000	189

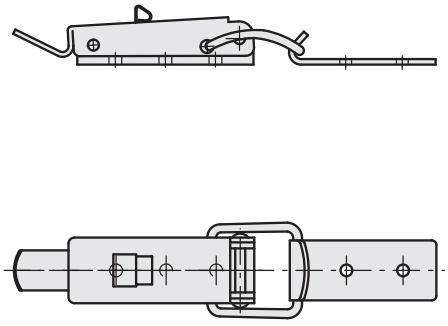
TLAL.SST **STAINLESS STEEL**

Code	Description	b2	L	B	H	d	d1	d2	b1	l1	l2	l3	l4	f	f1	f2	f3	h1	h2	Max. working load [N]	Load at breakage [N]	⚖
420086	TLAL.SST-16.4/102+R	16.4	102	23	11	3.2	2	4	13	16	44	30	34.5	34.5	12.5	12	5	11.5	15.5	550	1200	32
420064	TLAL.SST-23/140.5+R	23	140.5	34	12.5	4.1	3	7	19	16	70	43	55	38	22.5	20	8	13	20	1500	3000	79
420054	TLAL.SST-30/193.5+R	30	193.5	43	19	5.3	4	11	27	21.5	90	66	71	58.5	31.5	25.5	15	20.5	30.5	2000	4000	189

TLAS.NH-30/193.5+R
TLAS.SST-30/193.5+R



TLAS.Z-16.4/102+R
TLAS.SST-16.4/102+R



TLAS.

Code	Description	b2	L	B	H	d	d1	b1	l1	l2	l3	f	f1	f2	f3	Max. working load [N]	Load at breakage [N]	⚖
420083	TLAS.Z-16.4/102+R	16.4	102	23	11	3.2	2	13	16	44	30	34.5	12.5	12	5	550	1200	32
420055	TLAS.NH-30/193.5+R	30	193.5	43	19	5.3	4	27	21.5	90	66	58.5	31.5	25.5	15	2000	4000	189

TLAS.SST **STAINLESS STEEL**

Code	Description	b2	L	B	H	d	d1	b1	l1	l2	l3	f	f1	f2	f3	Max. working load [N]	Load at breakage [N]	⚖
420084	TLAS.SST-16.4/102+R	16.4	102	23	11	3.2	2	13	16	44	30	34.5	12.5	12	5	550	1200	32
420056	TLAS.SST-30/193.5+R	30	193.5	43	19	5.3	4	27	21.5	90	66	58.5	31.5	25.5	15	2000	4000	189

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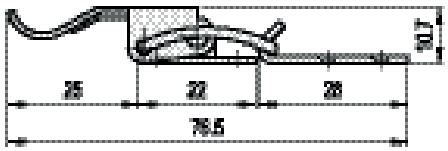
TLC.

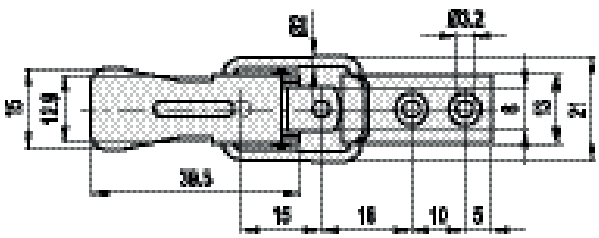
Hook clamps

Steel or stainless steel

STANDARD EXECUTIONS
- **TLC.Z**: zinc-plated steel.
- **TLC.SST**: AISI 304 stainless steel.

SPECIAL EXECUTIONS ON REQUEST
- Hook clamps in unplated steel or nickel-plated steel.
- Catch brackets in different shapes and finishes.





TLC.Z

Code	Description	Max. working load [N]	Load at breakage [N]	⚖
420071	TLC.Z-15/76.5+R	400	1000	16

TLC.SST — **STAINLESS STEEL**

Code	Description	Max. working load [N]	Load at breakage [N]	⚖
420072	TLC.SST-15/76.5+R	400	1500	16

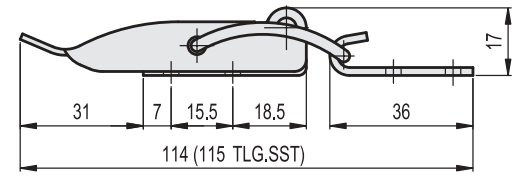
TLG.

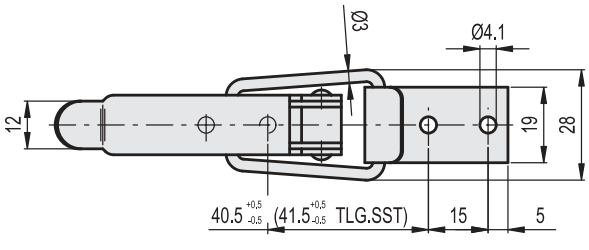
Hook clamps

Steel or stainless steel

STANDARD EXECUTIONS
- **TLG.Z**: zinc-plated steel.
- **TLG.SST**: AISI 304 stainless steel.

SPECIAL EXECUTIONS ON REQUEST
- Hook clamps in unplated steel or nickel-plated steel.
- Catch brackets in different shapes and finishes.





TLG.Z

Code	Description	Max. working load [N]	Load at breakage [N]	⚖
420111	TLG.Z-12/114+R	1000	2500	59

TLG.SST — **STAINLESS STEEL**

Code	Description	Max. working load [N]	Load at breakage [N]	⚖
420112	TLG.SST-12/114+R	1000	2500	59

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TLI.

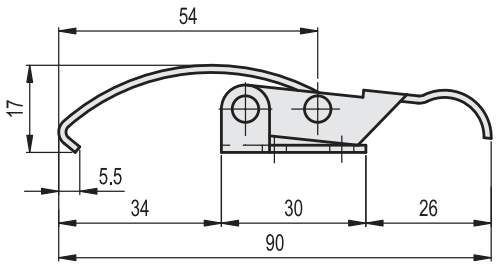
Hook clamps

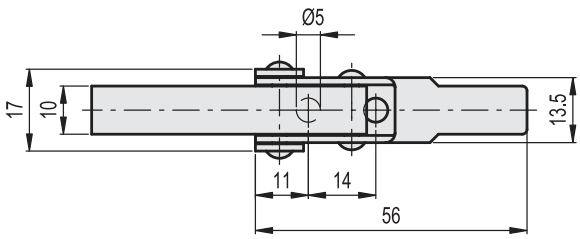
Steel or stainless steel

STANDARD EXECUTIONS
- **TLI.Z**: zinc-plated steel.
- **TLI.SST**: AISI 304 stainless steel.

SPECIAL EXECUTIONS ON REQUEST
- Hook clamps in unplated steel or nickel-plated steel.

Radial strength tests





TLI.Z

Code	Description	Max. working load [N]	Load at breakage [N]	⚖
420131	TLI.Z-13.5/90	500	900	28

TLI.SST **STAINLESS STEEL**

Code	Description	Max. working load [N]	Load at breakage [N]	⚖
420132	TLI.SST-13.5/90	500	900	28

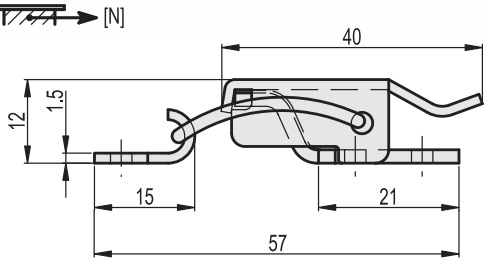
TLV.

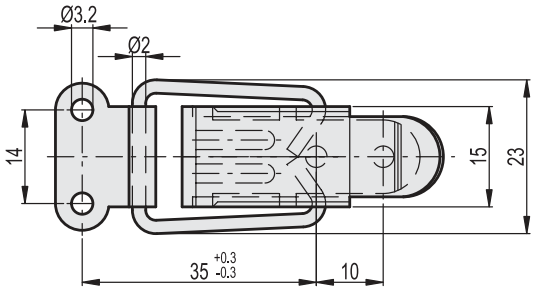
Hook clamps

Steel or stainless steel

STANDARD EXECUTIONS
- **TLV.Z**: zinc-plated steel.
- **TLV.SST**: AISI 304 stainless steel.

SPECIAL EXECUTIONS ON REQUEST
- Catch brackets in different shapes and finishes.





TLV.Z

Code	Description	Max. working load [N]	Load at breakage [N]	⚖
420243	TLV.Z-15/56+R	550	1000	23

TLV.SST **STAINLESS STEEL**

Code	Description	Max. working load [N]	Load at breakage [N]	⚖
420242	TLV.SST-15/56+R	550	1000	23

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Hook clamps

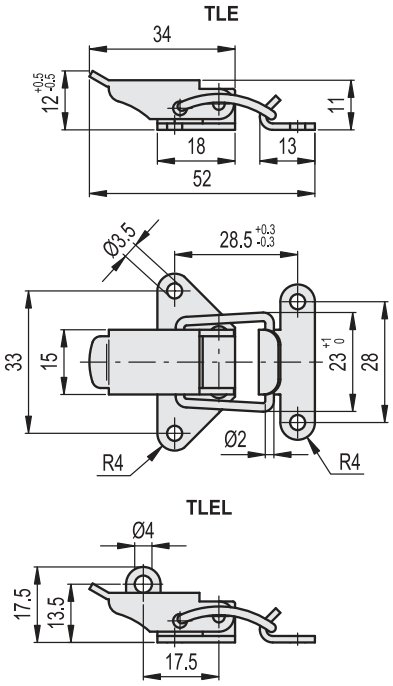
Steel or stainless steel

STANDARD EXECUTIONS

- **TLE.Z**: zinc-plated steel basic hook clamps.
- **TLE.SST**: AISI 304 stainless steel basic hook clamps.
- **TLEL.Z**: zinc-plated steel basic hook clamps with padlock holes.

SPECIAL EXECUTIONS ON REQUEST

- Hook clamps in unplated steel or nickel-plated steel.
- Catch brackets in different shapes and finishes.



TLE.Z

Code	Description	Max. working load [N]	Load at breakage [N]	⚖
420091	TLE.Z-15/52+R	550	1200	21

TLE.SST

STAINLESS STEEL

Code	Description	Max. working load [N]	Load at breakage [N]	⚖
420092	TLE.SST-15/52+R	550	1800	21

TLEL.Z

Code	Description	Max. working load [N]	Load at breakage [N]	⚖
420093	TLEL.Z-15/52+R	550	1800	21

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Adjustable hook clamps

Steel or stainless steel

STANDARD EXECUTIONS

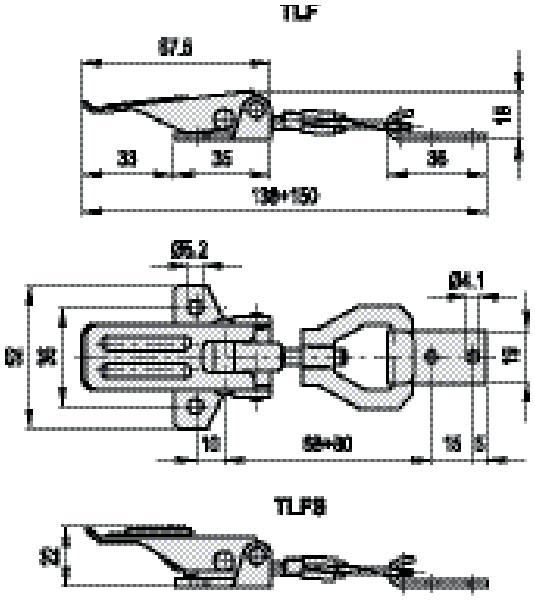
- **TLF**: basic hook clamps.
- **TLFS**: hook clamps with security stop. RAL 3000 red technopolymer push button.

Indexes for materials and treatments to add to the above-mentioned standard executions:

- **Z**: zinc-plated steel.
- **SST**: AISI 304 stainless steel.
- **NH**: nickel-plated steel.

SPECIAL EXECUTIONS ON REQUEST

- Hook clamps in unplated steel.
- Catch brackets in different shapes and finishes.



TLF.Z - TLFS.NH

Code	Description	Max. working load [N]	Load at breakage [N]	⚖
420101	TLF.Z-24/138-150+R	1500	2500	101
420103	TLFS.NH-24/138-150+R	1500	2500	103

TLF.SST - TLFS.SST **STAINLESS STEEL**

Code	Description	Max. working load [N]	Load at breakage [N]	⚖
420102	TLF.SST-24/138-150+R	1500	2500	101
420104	TLFS.SST-24/138-150+R	1500	2500	103

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TLL.

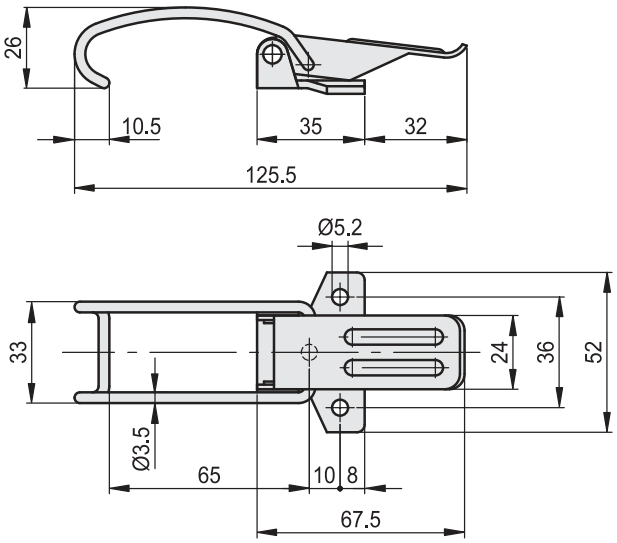
Adjustable hook clamps

Steel

MATERIAL
Zinc-plated steel.

SPECIAL EXECUTIONS ON REQUEST
Hook clamps in AISI 304 stainless steel.

Radial strength tests



Code	Description	Max. working load [N]	Load at breakage [N]	⚖
420141	TLL.Z-24/125	200	3500	77

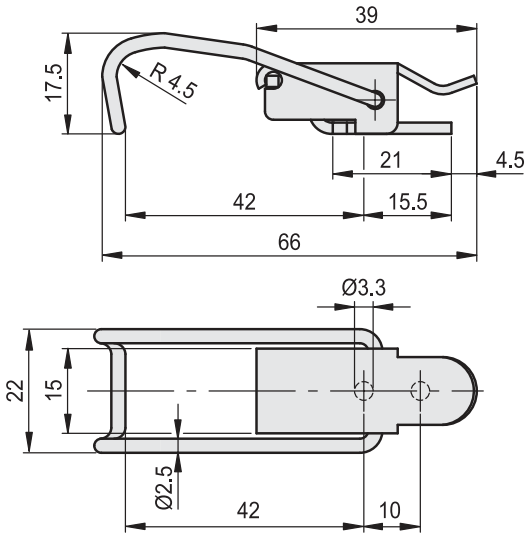
TLP.

Adjustable hook clamps

Steel

MATERIAL
Zinc-plated steel.

SPECIAL EXECUTIONS ON REQUEST
Hook clamps in AISI 304 stainless steel.



Code	Description	Max. working load [N]	Load at breakage [N]	⚖
420181	TLP.Z-22/67	400	700	23

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TLM.

Adjustable hook clamps

Steel or stainless steel

STANDARD EXECUTIONS

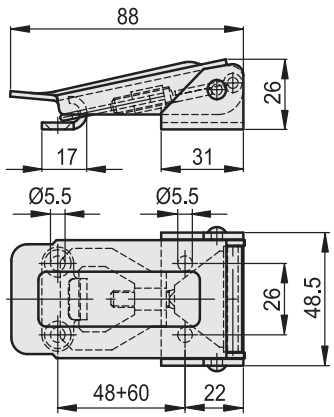
- **TLM.**: basic hook clamp.
- **TLML**: hook clamp with padlock hole.

Indexes for materials and treatments to add to the above-mentioned standard executions:

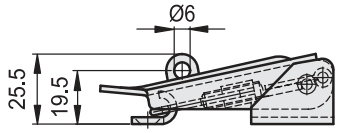
- **Z**: zinc-plated steel.
- **SST**: AISI 304 stainless steel.

Radial strength tests

TLM.



TLML.



TLM.Z - TLML.Z

Code	Description	Max. working load [N]	Load at breakage [N]	⚖
420151	TLM.Z-26/48-60+R	1500	3000	175
420153	TLML.Z-26/48-60+R	1500	3000	175

TLM.SST **STAINLESS STEEL**

420152	TLM.SST-26/48-60+R	1500	3000	175

TLN.

Adjustable hook clamps

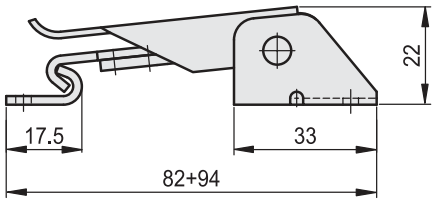
Steel

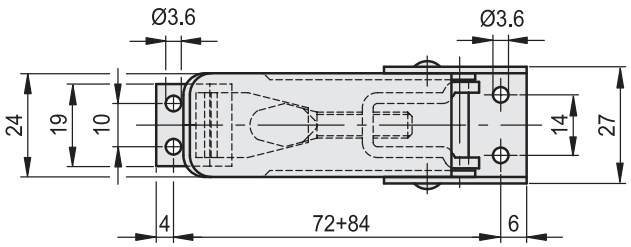
LEVER BODY AND CATCH BRACKET MATERIAL

Zinc-plated steel.

SPECIAL EXECUTIONS ON REQUEST

Adjustable hook clamps with padlock holes.





Code	Description	Max. working load [N]	Load at breakage [N]	⚖
420161	TLN.Z-14/72-84+R	1000	2000	74

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