Quick Catalogue

STANDARD MACHINE ELEMENTS WORLDWIDE









Elesa S.p.A. - Headquarters and Production Plant in Monza (Milan) Italy

Design and production activities are based at the headquarters and facilities in Monza, a state-of-the-art industrial company utilising the latest automated production technologies. The logistics centre, equipped with modern multi-level shuttles, manages over 65,000 codes fully automatically, ensuring efficient shipments to customers in the domestic market and across a global sales network spanning more than 60 countries.

Choose how to browse the ELESA PRODUCT RANGE





QUICK CATALOGUE

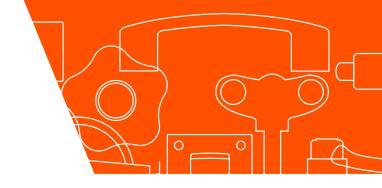
- Products index with pictures and essential information to view the full range in a "quick" way.
- Scan the QR code to view the product family directly online.
- All detailed technical information with dimensioned drawings and dimensional tables are available on the website or in the General Catalogue.

ONLINE

- Always updated with New Products.
- CAD models configurator with automatic dimensioning; CAD models direct download and Part-2-CAD.
- Additional product images.
- Videos and 3D animations.
- Related products.
- Internal search engine and search filters both in the product index and table.

GENERAL CATALOGUE

- Detailed technical information with dimensioned drawings and dimensional tables with codes and descriptions to place orders.
- Available for offline consultation in the factory departments and always on your desk!





1 | HANDWHEELS AND CRANK HANDLES



2 | CLAMPING ELEMENTS



3 | CLAMPING HANDLES



4 | HANDLES



5 | FIXED AND REVOLVING HANDLES



6 | CONTROL ELEMENTS



7 | POSITION INDICATORS



8 | INDEXING AND POSITIONING ELEMENTS



9 | STANDARD MACHINE PARTS



10 | ANTI VIBRATION MOUNTS



11 | INDUSTRIAL MAGNETS



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16 | ACCESSORIES FOR HYDRAULIC SYSTEMS



17 | CASTORS AND WHEELS



18 | TUBE CONNECTORS



19 | VACUUM SUCTION CUPS



TECHNICAL DATA

Browse the full range on elesa.com

Elesa Product range



Mission

At Elesa, our mission is to create standard components for industrial machinery and equipment covering a multitude of different sectors. Our **extensive range** not only meets technical requirements but also provides **quality** and a **distinctive design**, able to guarantee **performance**, both in terms of **ergonomics** and **durability**, beyond pure **functionality**.

Our ambition is to set new industry standards by enriching customers' experience with a **seamless service**.

Our advanced production and logistics assets combined with our **glocal philosophy** and **worldwide presence** ensure product availability and proximity to customers, no matter the location.

In Elesa, we work to be synonymous with **quality** and **innovation** while upholding **sustainability**, shaping the future of **functionality** and **aesthetics** in every product we create and deliver.

Vision

At Elesa, our vision is to pioneer a transformative approach to the industrial components market, not only designing and manufacturing **high quality products** but rather delivering **innovative solutions** that tangibly elevate user experiences across industries and foster **sustainability**.

Rooted in a foundation of **reliability** and **precision**, we constantly evolve to set new industry standards, integrating a **full-service approach** to the traditional manufacturer dimension, allowing for a **single source supplier** of exceptional quality products, delivered with **high efficiency** worldwide.

Elesa values

Expertise and reliability

Elesa's history is an example of consistency that has made the company reliable over time, continuously providing the highest standards, both in product performance and customer service worldwide.

Quality and service

Elesa constantly strives to provide products of original and distinctive design, recognised internationally, and excellent service levels, with the aim of setting new standards in both product performance and service efficiency.

Innovation, technology and design

Strengthened by its high level of engineering expertise, Elesa adopts transformative approaches in the design and production of industrial components, harnessing technological innovation to make its products high-performing, without compromising on customer care, with impeccable and perfectly integrated service.

Ethics and responsibility

Elesa is a family owned company that focuses on ethical principles at the centre of its business. It always acts with transparency and trustworthiness, with a focus on listening to people, whether they are employees, business partners or customers. Furthermore, it adopts a sustainable and forward-looking management, becoming an active participant and driver of development in the territories in which it operates.



Performing Design

Solid expertise, seamless service.

Established in 1941, Elesa is the international reference for standard components destined for the mechanical, machinery and industrial equipment sectors.



An excellent combination of **technology and design** has given rise to a **diverse production**, thanks to the constant commitment to follow market trends, developments in production technologies and increasingly high-performance solutions. A corporate culture strongly committed to **product quality**, combined with an innate sensitivity for **design and ergonomic research**, led to the creation of products unique and recognisable worldwide as Elesa products.

- 300 PATENTS AND REGISTERED DESIGNS
- 56 INDUSTRIAL DESIGN AWARDS
- WORLDWIDE DISTRIBUTION
- 65.000+ PRODUCT CODES AVAILABLE ON STOCK
- CUSTOMISED SOLUTIONS
- TECHNICAL COMPETENCE AT THE CUSTOMERS' SERVICE



■ QUALITY - ENVIRONMENT - SAFETY - SECURITY



Quality Management System certified according to ISO 9001 since 1993.



Environmental Management System certified according to **ISO 14001** since 2007.



Occupational Health and Safety Management System certified according to **ISO 45001** since 2012.



Information Security Management System certified according to ISO 27001 since 2024.



Authorised Economic Operator Full certified by the European Custom Agency since 2014: recognition of full reliability of customs procedures.

Elesa is associated with:













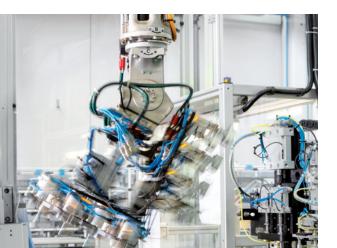
Design and production activities are concentrated at the headquarters in Monza where tens of millions of pieces are produced every year by utilising the latest automated production technologies.

In the new, fully automated Logistics Centre, over 65,000 product codes are in stock and ready to be shipped worldwide.





Elesa uses electricity produced only from 100% renewable sources, i.e. energy produced through the use of natural resources (water, sunlight, wind, tides, geothermal heat, etc.) which therefore do not involve CO2 emissions (which are instead produced by coal, oil and gas).





International presence

Elesa guarantees the reliability of its products, designed and manufactured in Italy at the headquarters in Monza. An authentical "Made in Italy" which has become popular around the world and particularly appreciated by the most qualified machine manufacturers.



60+
COUNTRIES

■ WORLDWIDE SALES NETWORK

The international distribution network provides all customer services and professional technical advice.

EUROPE

Albania, Austria, Belgium, Bosnia-Herzegovina, Bulgaria, Cyprus, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, North Macedonia, Moldova, Norway, Netherlands, Poland, Portugal, United Kingdom, Czech Republic, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine, Hungary.

ASIA

Bahrain, China, South Korea, Philippines, Japan, India, Indonesia, Israel, Kazakistan, Malesia, Qatar, Singapore, Taiwan, Thailand, Turkmenistan, UAE, Uzbekistan, Vietnam.

AFRICA

Algeria, Egypt, Morocco, South Africa, Tunisia.

AMERICA

Argentina, Brazil, Canada, Chile, Mexico, USA.

OCEANIA

Australia, New Zealand.

15 SUBSIDIARIES



elesa



Elesa France SASU



Elesa (UK) Ltd



Elesa USA Corporation



Elesa Scandinavia AB



Elesa Switzerland SA



Elesa Canada Ltd.



Elesa MX

€l€sa+Ganter

Elesa+Ganter is the commercial joint venture between two world leaders in the production of standard industrial components.

A brand in over 35 countries with subsidiaries and distributors.



Elesa+Ganter Austria GmbH



Elesa-Ganter Iberica S.L.



Elesa+Ganter Polska Sp. zo.o.



Elesa+Ganter China Ltd.



Elesa+Ganter CZ s.r.o.



Elesa and Ganter India PVT LTD



Elesa+Ganter Türkiye



Elesa+Ganter B.V. (NL)





Elesa has been cooperating for over 50 years with Otto Ganter GmbH & Co. KG (Germany) – a qualified manufacturer of standard elements according to its own GN standards and DIN German standards, which identify the corresponding products, to offer the widest range of components for machinery and industrial equipment.

Elesa Design



Since the 1950s, Elesa has been actively involved in the cultural revision of machine tool aesthetics that were 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 to, over the decades, as proven by the industrial design awards received over the last 40 years from the most prestigious juries.

66

We design our products to offer perfect functionality and the best ergonomics, whilst keeping in mind the creation of unique designs recognisable over the world as ELESA products.

Elesa design helps enhance the value and quality of your products.

Every single detail, be it aesthetic or functional, is essential and can significantly improve



Elesa is associated with: EZIONE. **ADI**MEMBER

The most prestigious juries of Industrial Design which awarded the Elesa products:





































The utmost competence

■Research & Development

Elesa continues to invest in R&D, and in particular, the innovation of its production technologies, with the aim of creating new products or to further improve performance and reliability of existing ones.

▼Testing laboratory

An internal testing laboratory with the most advanced equipment and measuring instruments studies the evolution of new plastic materials to develop new and improved products, satisfying the requirements of more demanding applications in the field of industrial machines. All standard products in the Elesa range are subject to mechanical, physical, chemical, electronic and durability testing in order to provide stress resistance values in the technical data sheets to allow the correct selection of the required machine parts. The Elesa laboratory is at the disposal of customers for carrying out tests that simulate specific or particularly heavy conditions of use.

ELESA is associated with:



▼Technical Data

Designers and engineers can benefit from a full collection of Technical Data provided with all Elesa catalogues. They include information on production materials, specifications on mechanical, thermal, flame and chemical resistance specifications together with international standards compliances, conversion tables, machining tolerances and thread types. In addition, guidelines for the correct selection and application of specific products are provided in order to allow the designers to always make the best choice.



Quick answers and customised solutions

Elesa offers on demand customised technical solutions to meet customers' specific needs.

■Product customisation

Logos and text by tampoprinting, laser-engraving and moulding.

■Special colours

Non standard colour options.

■Surface treatments

Black-oxide, zinc-plating, nickel plating, chrome-plating, anodising and epoxy-resin coating.

■Special materials and shapes

Special technopolymers, stainless steel and metals; special shapes, dimensions and metal insert threadings.









High Performing Lines

Standard Elesa product lines made of various engineering plastics and metals with innovative features, to meet the requirements of specific industries.



SOFT-TOUCHSAFE, COMFORTABLE AND NON-SLIP GRIP

- Fitness, rehab and disability aids and equipment.
- High precision instruments.
- Equipment subject to unfavourable climatic conditions.











CHROMIUM CHROME-PLATED TECHNOPOLYMER

- Equipment for outdoor environments subject to unfavourable climatic conditions.
- Machines and tools subject to frequent cleaning cycles.





CLEAN WHITE COLOUR WITH DIRT-PROOF SURFACES

■ Medical and hospital equipment.





PROFILE COMPATIBLE COMPATIBLE FOR ASSEMBLY ON PROFILE SYSTEMS

 Components compatible for assembly on aluminium profile systems.





HYGIENIC DESIGNDESIGN, MATERIALS AND

SURFACE TREATMENTS AT THE SERVICE OF HYGIENE

 Machines and equipment for food processing, pharmaceutical and medical sectors.





AE-VOSELF-EXTINGUISHING TECHNOPOLYMER

- Urban and public fittings.
- Lighting and entertainment equipment.







SAN - ANTIMICROBIAL SELF-SANITISATION AGAINST **BACTERIA AND FUNGI**

- Medical, hospital, rehab and disability aids and equipment.
- Urban and public fittings.



VISUALLY DETECTABLE DETECTABLE TECHNOPOLYMER RAL 5005 "SIGNAL BLUE"

- Food-processing machines.
- Pharmaceutical equipment.



METAL DETECTABLE TECHNOPOLYMER RAL 5001 "GREEN-BLUE" WITH **DETECTABLE ADDITIVES**

- Food-processing machines.
- Pharmaceutical equipment.









CONDUCTIVE TECHNOPOLYMER

- Assembly lines for electronic components.
- EPA "ESD- Protected Area".





COMPLIANT WITH ATEX EUROPEAN DIRECTIVE

Equipment and machines for use in environments subject to explosion risk.











INOX - STAINLESS STEEL CORROSION RESISTANCE

Food processing, pharmaceutical and chemical.



SUPER-technopolymer

When the advantages of engineering plastics combine favourably with metal.





"SUPER-Technopolymers" - new technopolymers with high mechanical and thermal performance - represent the latest evolution of engineering polymer materials for the industrial sector. The most technologically advanced industries, such as automotive, aviation and electronics, have long understood the benefits of using these new generation engineering plastics. The "metal replacement" - the possibility to replace metal - is a trend that increasingly involves numerous applications, but it is not limited to the use of high performance engineering plastics. In fact, in order to have technopolymer products in applications which have been so far, a prerogative of the 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. Elesa has developed several components made of SUPER-technopolymer, able to guarantee the following advantages:

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



ERGOSTYLE® line

Ergonomics and Design: the service of functionality and security.



ERGOSTYLE® elements were initially conceived for a series of new market segment applications, including hospital and medical equipment, sports and leisure equipment, scientific instrumentation and office furniture. Nowadays, ERGOSTYLE® elements are also applied in more traditional industrial sectors. whose machines and equipment have undergone a profound aesthetic and design renovation over the last few decades. Elements with modern. elegant shapes with inserts in 7 ELECOLORS® allow the components to be better integrated on machinery from an aesthetical point of view contributing to enhance their value. In addition, the coloured inserts can be used to differentiate machinery functions.





Industrial Design Awards won by the ERGOSTYLE® line

















Sectors and applications



PACKAGING









CATERING AND FOOD INDUSTRY MACHINES





MEDICAL



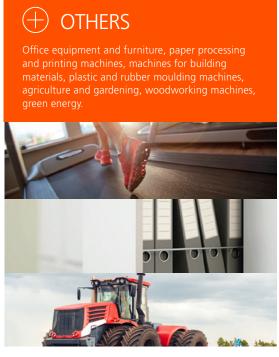
This overview provides a selection of the main sectors in which Elesa has consolidated its presence with a range of standard products. Elesa understands that each sector has specific requirements and demands dedicated expertise to identify the most suitable solutions.

With a team of experts, Elesa is able to provide highly specialised technical support to meet the most complex requirements.









Your project, our challenge. At your service!



Same-day shipping for online orders before 2 p.m.

lelesa.com

From desktop, tablet or smartphone, the Elesa website is **quick** and **easy to navigate**. Use simple **online tools** to **create your projects** and **purchase 24/7** in full autonomy by consulting the prices in the table, together with discounts and stocks indicated for each product code (only for countries where the online shop service is available).

- Browse the complete catalogue, always updated also with new products, additional images, related products and 3D animations.
- Download **PDF data sheet without registration**.
- Browse the range by applying the filters for a more targeted search.
- You can also sort the search results by price (only for countries where the online shop service is available).
- Sign up for the Elesa Newsletter and stay up-to-date on new products, technical details and exhibitions.

Download your CAD models



- in **neutral formats** (SAT / STEP / IGES / DFX)
- in native formats of CAD systems including AutoCAD, SolidWorks, Inventor, Catia, Solid Edge, Pro/E, ME10, NX.



- Get CAD models in all formats, including direct download or with Part2CAD to open and store them directly in your CAD system's library.
- Configure your model with automatic dimensioning system and add the product directly into the shopping cart.
 It's quick and easy!



Follow the tutorials on how to use the configurator and CAD downloads



Customer care

Elesa offers you a full-service approach to be your single source supplier of quality products.

What can you count on?

Rapidity: Elesa Customer Service answers quickly to your requests also through your preferred channels.

Technical expertise: a team of highly qualified and constantly updated operators is at your disposal to offer you the best solutions and our services.

Dialogue: your demands always at the centre and a customised technical support at your disposal to follow you step by step towards the development of your project.





Product availability

The central warehouse in Monza, with more than 65,000 product codes in stock, is able to meet the demands of all customers and to supply both the subsidiaries and the entire worldwide distribution network to ensure product availability wherever you are.





Exhibitions and Road-shows

With a presence at more than 120 exhibitions around the world, Elesa offers its customers the opportunity to learn the latest innovations and to engage directly with experts.

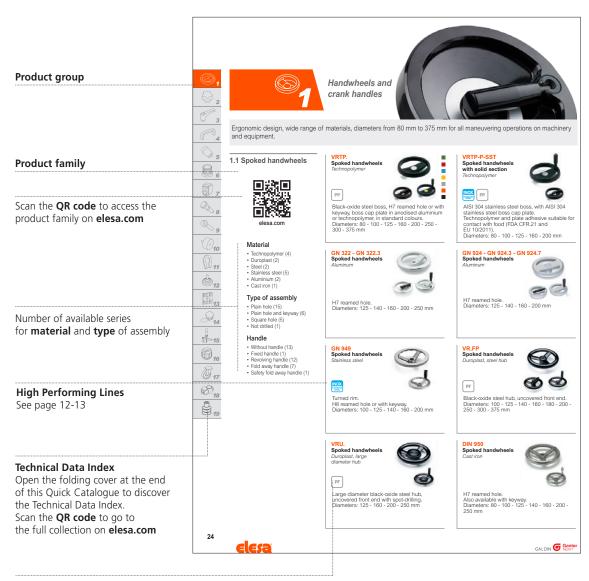
Elesa can also bring the exhibition experience directly to customers' premises, offering a customised and tailor-made service.



Follow the exhibitions calendar



Quick Catalogue: how to select a product



Symbols for technical characteristics

PP	Polypropylene based technopolymer	PA-T	Transparent polyamide based technopolymer	PF	Phenolic based Duroplast with epoxy resin coating	PMMA	Polymethyl methacrylate	SC	Samarium cobalt
PP-FDA	Polypropylene based technopolymer Certified in compliance with FDA	PA-T	"Alcohol Resistant"	TPE	Thermoplastic elastomer	FKM	Fluorine rubber	AN	Aluminium nickel cobalt
PA	Polyamide based technopolymer	PE	Polyethylene based technopolymer	TPU	Thermoplastic polyurethane	NBR	Nitrilic synthetic rubber		
PA-FDA	Polyamide based technopolymer. Certified in compliance with FDA conforme FDA	PTFE	Polytetrafluoroethylene based technopolymer	POM	Acetal resin based technopolymer	HF	Ferrite		
HMWPE	Polyethylene based technopolymer	PF	Phenolic based Duroplast	PC	Polycarbonate	ND	Neodymium iron boron		



The Elesa range



HANDWHEELS AND CRANK HANDLES

Spoked handwheels Solid handwheels Arm handwheels Crank handles





CLAMPING ELEMENTS

Clamping knobs Thumb Screws Wing nuts and wing knobs Torque limiting knobs





CLAMPING HANDLES

Clamping handles and locking levers Lever handles Cam levers





HANDLES

Knobs

Bridge, flush pull, ledge, folding, tubular handles Handles with electrical switch Handles with pneumatic valve Finger handles





FIXED & REVOLVING HANDLES

T-Handles Fixed, revolving and fold-away handles Gear lever handles





CONTROL ELEMENTS

Control knobs Control levers Adjustment elements with lock





POSITION INDICATORS

Gravity and positive drive indicators Mechanical and electronic indicators Magnetic measuring systems Handwheels and accessories

















INDEXING AND POSITIONING ELEMENTS

Indexing plungers Lever indexing plungers Quick release pins Spring plungers





STANDARD MACHINE PARTS

Grub-screws, thrust pads, rings, washers Set collars, T-nuts Locking elements and transfer units Modular roller tracks Spirit level bubbles Transmission elements





ANTI VIBRATION MOUNTS

Rubber buffers Anti vibration mounts Spring mounts and wire rope isolators





INDUSTRIAL MAGNETS

Flat magnets Cylindric magnets Unshielded magnets Horseshoe magnets and profile magnets Grub screws with magnet, accessories





LEVELLING FEET AND SUPPORTS

Adjustable feet, End caps and connectors Panel support brackets and connecting clamps Conveyor components, support bearings Angle brackets for profile structures





HINGES AND ACCESSORIES

Hinges, friction and detent, adjustable hinges Hinges for narrow jamb Lift-off hinges Electrical safety hinges Spring hinges and shock absorbing hinges





LATCHES

Latches with knob Snap locks Latches with key Toggle latches





TOGGLE AND FASTENING CLAMPS

Horizontal, vertical, push-pull toggle clamps Latch clamps and reverse clamps Pneumatic fastening clamps Toggle-joint mechanism and accessories





ACCESSORIES FOR HYDRAULIC SYSTEMS

Blanking plugs and breather caps Oil level sight glasses, level indicators and electrical Flow indicators and level sensors Flexible coolant hoses





CASTORS AND WHEELS

Polyurethane castors and wheels Technopolymer castors and wheels Rubber castors and wheels **Duroplast wheels**





TUBE CONNECTORS

Connecting clamps for tubes Hinged joints for tubes Tubes and accessories Tube connectors for linear actuators Linear actuators and accessories





VACUUM SUCTION CUPS

Vacuum cups Vacuum cup holders Vacuum cup fittings





TECHNICAL DATA INDEX

Open the folding cover at the end of this Quick Catalogue to discover the Technical Data Index. Scan the QR code to access the full collection on elesa.com









































VRTP-P-SST

Technopolymer

PP

Spoked handwheels with solid section

Ergonomic design, wide range of materials, diameters from 80 mm to 375 mm for all maneuvering operations on machinery and equipment.

1.1 Spoked handwheels



elesa.com

Material

- Technopolymer (4)
- · Duroplast (2)
- Steel (2)
- · Stainless steel (5)
- · Aluminium (2)
- · Cast iron (1)

Type of assembly

- · Plain hole (15)
- Plain hole and keyway (6)
- Square hole (5)
- Not drilled (1)

Handle

- Without handle (13)
- · Fixed handle (1) · Revolving handle (12)
- Fold away handle (7)
- Safety fold away handle (1)

Spoked handwheels Technopolymer





Black-oxide steel boss, H7 reamed hole or with keyway, boss cap plate in anodised aluminium or technopolymer, in standard colours. Diameters: 80 - 100 - 125 - 160 - 200 - 250 -300 - 375 mm

GN 322 - GN 322.3

Spoked handwheels Aluminum



H7 reamed hole. Diameters: 125 - 140 - 160 - 200 - 250 mm

Spoked handwheels

stainless steel boss cap plate.

contact with food (FDA CFR.21 and

AISI 304 stainless steel boss, with AISI 304

Diameters: 80 - 100 - 125 - 160 - 200 mm

Technopolymer and plate adhesive suitable for

Aluminum

EU 10/2011)



H7 reamed hole. Diameters: 125 - 140 - 160 - 200 mm

GN 949

Spoked handwheels

Stainless steel



Turned rim. H8 reamed hole or with keyway. Diameters: 100 - 125 - 140 - 160 - 200 mm

VR.FP

Spoked handwheels Duroplast, steel hub







Black-oxide steel hub, uncovered front end. Diameters: 100 - 125 - 140 - 160 - 180 - 200 -250 - 300 - 375 mm

Spoked handwheels

Duroplast, large diameter hub



Large diameter black-oxide steel hub, uncovered front end with spot-drilling. Diameters: 125 - 160 - 200 - 250 mm

DIN 950

Spoked handwheels

Cast iron



H7 reamed hole. Also available with keyway.
Diameters: 80 - 100 - 125 - 140 - 160 - 200 -250 mm





1.1 Spoked handwheels continues

GN 950.6

Spoked handwheels Stainless steel



H9 or H7 reamed hole. Also available with keyway. Diameters: 100 - 125 - 140 - 160 - 200 mm

Spoked handwheels Pressed steel



Turned and welded hub, H11 square hole, H9 reamed hole or with keyway. Diameters: 125 - 160 - 200 - 250 - 315 -







































400 mm



Spoked handwheels Pressed stainless steel



Welded hub, H9 reamed hole or H11 square

Diameters: 160 - 200 - 250 - 315 - 400 mm

GN 228-A4

Spoked handwheels AISI 316L stainless steel



Turned and welded hub, H11 square hole, H9 reamed hole or with keyway. Diameters: 125 - 160 - 200 - 250 - 315 -400 mm

GN 227.1 - GN 227.4 Spoked handwheels

Steel or pressed stainless steel



Welded hub with H9 reamed pass-through hole or H11 square pass-through hole. Diameters: 125 - 160 - 200 - 250 - 315 -400 mm

GN 227.7

Spoked handwheels for valves, pressed steel





Welded hub with H9 reamed pass-through hole or H11 square pass-through hole. Diameters: 125 - 160 - 200 - 250 - 315 -400 mm

EMW.

Monospoke handwheels

Technopolymer



Black-oxide steel boss, H7 reamed hole with boss cover cap in technopolymer, in standard

Versions with locking system (Elesa patent). Diameter: 350 mm

ETW.375

Spoked handwheels

Technopolymer



PP

Black-oxide steel boss, H7 reamed hole with boss cover cap in technopolymer, in standard

Versions with locking system (Elesa patent). Diameter: 375 mm

1.2 Solid handwheels



Solid handwheels

Technopolymer



Black-oxide steel or stainless steel boss, H7 reamed hole or with keyway. Boss cap in light grey technopolymer, also

available in standard colours. Diameters: 80 - 100 - 125 - 150 - 175 - 200 -250 - 300 mm

VDN.FP

Solid handwheels Duroplast, steel hub





Black-oxide or stainless steel hub, uncovered front end, not drilled or with H7 reamed hole or with keyway.

Diameters: 50 - 63 - 80 - 100 - 125 - 140 - 150 -175 - 200 - 225 - 250 - 300 - 350 mm



1.2 Solid handwheels continues



elesa.com

Material

- Technopolymer (2)
- Duroplast (5)
- Steel (1)
- · Aluminium (4)

Type of assembly

- Plain hole (8)
- Plain hole and keyway (7)
- Not drilled (2)

Handle

- · Without handle (6)
- · Revolving handle (8)
- Fold away handle (5)
- · Safety fold away handle (3)

VDN.FP-SST

Solid handwheels

Duroplast, stainless steel hub







Stainless steel hub, uncovered front end, not drilled or with H7 reamed hole.

Diameters: 50 - 63 - 80 - 100 - 125 - 140 - 150 -175 - 200 - 225 - 250 - 300 - 350 mm

Safety solid handwheels

VDN.FP+I+ST

Duroplast



PF

Safety coupling boss, H7 reamed hole and

Diameters: 125 - 150 - 175 - 200 - 250 mm

Solid handwheels

Technopolymer



PA

Black-oxide steel boss, H7 reamed hole or with kevwav.

Diameters: 100 - 125 - 160 - 200 mm

GN 000.5

Safety coupling bushings

for handwheels or handles, steel



Boss withH7 reamed hole and keyway. Diameters: 29 - 33 - 39 - 46 mm

GN 321

Solid handwheels

Aluminum



H7 reamed hole. Diameters: 80 - 100 - 125 - 140 - 160 - 200 -250 mm

GN 923

Solid handwheels Aluminum



PP

H7 reamed hole.

Diameters: 80 - 100 - 125 - 140 - 160 - 200 mm

GN 923.3

Solid handwheels

Aluminum, with foldaway handle



PP

H7 reamed hole.

Diameters: 100 - 125 - 140 - 160 - 200 mm

GN 923.7

Solid handwheels

Aluminum, with safety fold-away handle



PP

H7 reamed hole.

Diameters: 125 - 140 - 160 - 200 mm



VDG+IR

Solid handwheels with graduation

Duroplast



Black-oxide steel hub, H7 reamed hole with

Diameters: 175 - 200 mm

VDA+I

Handwheels for metal flanges

Duroplast

PF



Diameters: 160 - 200 mm







1.3 Arm handwheels



elesa.com

elesa.com

Material

- · Technopolymer (4)
- Duroplast (1)

Type of assembly

• Plain hole (5)

Handle

- · Fixed handle (3)
- · Revolving handle (2)

VB.198

Four-arm handwheel Duroplast





Black-oxide steel hub, uncovered front end with pre-drilled pass-through hole. Maximum permissible diameter 16 mm

VBR.4

Four-arm handwheels

Technopolymer and steel





Black-oxide steel boss, uncovered front end with pre-drilled pass-through hole. Diameters: 200 - 280 - 320 - 370 mm

Three-arm handwheel

PP

Technopolymer



Black-oxide steel boss, H7 reamed hole with boss cover cap in technopolymer, in standard

Versions with locking system (Elesa patent). Diameter: 400 mm

1.4 Crank handles



elesa.com

Crank handle

Technopolymer, large diameter hub





Black-oxide steel boss, H9 reamed hole with keyway and boss cover cap in technopolymer. Dimension: 210 mm

MT-AT

PΑ

Crank handles

Technopolymer



Black-oxide steel boss, H9 reamed hole. Dimensions: 50 - 64 - 80 - 100 - 130 - 160 mm

Two-arm handwheels

Technopolymer and steel





Black-oxide steel boss, uncovered front end with pre-drilled pass-through hole. Diameters: 200 - 280 - 320 - 370 mm

EYK.

Three-arm handwheels

Technopolymer





Black-oxide steel boss, H7 reamed hole with boss cover cap in technopolymer, in standard colours

Versions with locking system (Elesa patent). Diameters: 275 - 400 mm































ERFW+I

Crank handles

PA Brass boss, cylindrical blind hole. Dimensions: 44 - 63 - 78 mm

Technopolymer

Crank handles

Technopolymer



210 mm

Black-oxide steel boss, H9 square pass-through hole; black-oxide steel hub with H9 blind hole or H7 reamed pass-through hole. Dimensions: 50 - 64 - 80 - 100 - 130 - 160 -



1.4 Crank handles continues



elesa.com

GN 471

Crank handles Aluminum



H7 reamed pass-through hole or H11 square pass-through hole.

Dimensions: 64 - 80 - 100 - 125 - 160 mm

GN 471.1 Crank handles





H7 reamed pass-through hole or H11 square pass-through hole.

Dimensions: 64 - 80 - 100 - 125 - 160 mm

Material

- · Technopolymer (6)
- Steel (1)
- · Stainless steel (3)
- Aluminium (3)
- · Cast iron (2)
- · Die-cast zinc alloy (2)

Type of assembly

- Plain hole (17)
- · Plain hole and keyway (2)
- Square hole (8)

- Fixed handle (4)
- Fold away handle (4)

GN 472.3

Crank handles

Aluminum



H7 reamed hole or H11 square pass-through

Dimensions: 80 - 100 - 125 mm

PΑ

GN 472.5

Crank handles

Aluminium, stainless steel



H7 reamed hole or H11 square pass-through

Dimensions: 80 - 100 - 125 mm

Handle

- · Revolving handle (13)

EKH.

Crank handles

Technopolymer



Hub cap in technopolymer, in standard colours. Black-oxide steel hub, H7 reamed hole. Dimensions: 100 - 125 mm

GN 269

Crank handles

Stainless steel



H9 reamed hole or H11 square hole. Dimensions: 80 - 100 - 125 - 160 - 200 mm

GN 369

Crank handles

Steel



Hub, H9 reamed hole with end grooving. Dimensions: 63 - 80 - 100 - 125 mm

GN 369.5

Crank handles

Stainless steel





Hub, H9 reamed hole with end grooving. Dimensions: 63 - 80 - 100 - 125 mm

DIN 468

Crank handles

Cast iron



H7 reamed hole or H11 square pass-through

Dimensions: 80 - 100 - 125 - 160 - 200 -250 mm

DIN 469

Crank handles

Cast iron



H7 reamed pass-through hole or H11 square pass-through hole.

Dimensions: 80 - 100 - 125 - 160 - 200 -250 mm





1.4 Crank handles continues

GN 558 Crank handles

with positioning and rest pin, cast iron



Hub with H7 reamed hole and keyway. Dimensions: 75 - 90 - 110 - 135 - 165 mm

METP

PA

Balanced crank handle

Technopolymer



Black-oxide steel boss, H7 reamed hole. Dimensions: 170 mm































ME

Balanced crank handles

Duroplast

PF



Black-oxide steel boss, H7 reamed hole. Dimensions: 65 - 80 - 95 - 110 - 140 mm

GN 112.1

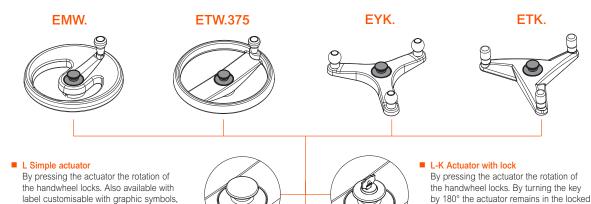
Balanced crank handles

Zinc alloy



H7 reamed blind hole. Dimensions: 70 - 80 - 90 - 100 mm





■ LCV Actuator with green collar

marks or special graphics.

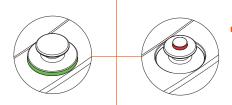
The green collar indicates that the handwheel is free and it can be operated. By pressing the actuator the rotation of the handwheel locks (the green collar is no longer visible).

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.

■ 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 ideal for disabled operators according to ADA regulations (Americans with Disability Act).



■ 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.

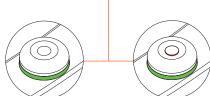
LCV-R Actuator with green collar and red ring

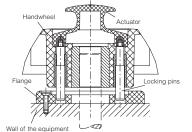
is no longer visible).

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

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 ideal for disabled operators according to ADA regulations (Americans with Disability Act).





Fitting to shaft by means of a transversal screw



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).





Clamping elements



Ergonomics, design and quality of materials to offer a more secure grip and maximum comfort for all manual clamping. Colours help to identify and differentiate various functions.

2.1 Clamping knobs



Material

- Technopolymer (34)
- Duroplast (9)
- Steel (1)
- · Stainless steel (33)
- · Aluminium (2)
- · Aluminium Stainless steel (1)
- · Cast iron (2)

Type of assembly

- · Blind hole (39)
- Pass-through hole (26)
- · Not drilled (3)
- Threaded screw (31)

VB.639

Three-arm knobs Technopolymer





Black-oxide steel boss with plain blind hole; brass or AISI 303 stainless steel boss with threaded blind or pass-through hole; zinc-plated steel threaded stud.

Diameters: 45 - 63 - 80 - 100 - 130 - 140 mm

VB.839 SOFT

Three-arm knobs Soft-touch technopolymer







Brass or AISI 303 stainless steel boss, threaded blind hole; zinc-plated steel threaded stud. Cap in standard colours.

Diameters: 63 - 80 - 100 mm

VB.839

Three-arm knobs Technopolymer





Brass or AISI 303 stainless steel boss, threaded blind hole; zinc-plated steel threaded stud. Cap in standard colours.

Diameters: 63 - 80 - 100 mm

VB.239

Three-arm knobs Duroplast, hub with

pre-drilled hole



Black-oxide steel hub with uncovered front end, pre-drilled blind hole.

Diameters: 80 - 100 - 140 mm







VCT.

Lobe knobs Technopolymer









Black-oxide steel boss with plain blind hole; brass, stainless steel or zinc-plated steel boss with blind or pass-through threaded hole; zinc-plated steel or stainless steel threaded stud. Cap in standard colours.

Diameters: 25 - 32 - 40 - 50 - 63 - 74 - 95 mm

VCT.AE-V0 Lobe knobs

Technopolymer certified self-extinguish





Brass boss with blind or pass-through threaded

Diameters: 25 - 32 - 40 - 50 mm

VCT-RC

Lobe knobs with elastic fork, technopolymer





Brass boss with threaded pass-through hole or zinc-plated steel threaded stud. Diameters: 25 - 32 - 40 - 50 - 63 mm

VCT-LP Lobe knobs

with retaining chain,

technopolymer



Brass boss with threaded pass-through hole; threaded zinc-plated steel stud. Diameters: 25 - 32 - 40 - 50 - 63 mm





































2. Clamping elements

2.1 Clamping knobs

continues

VCT.SOFT

Lobe knobs Soft-touch technopolymer





Brass boss with threaded blind hole or zinc-plated steel threaded stud. Cap in standard colours. Diameters: 43 - 53 - 66 - 77 mm

Safety lobe knobs Technopolymer, push action





Black-oxide steel or AISI 303 stainless steel clamping knobs with toothed element for coupling to zinc alloy insert moulded in the knob. Available with threaded hole or threaded pin. Diameters: 40 - 50 mm

VC.692

Lobe knobs with solid section Technopolymer, easy cleaning





Brass or AISI 303 stainless steel boss, threaded blind hole; zinc-plated steel or AISI 303 stainless steel threaded stud. Diameters: 25 - 32 - 40 - 50 - 60 mm

VC.692-CLEAN

Lobe knobs

Technopolymer, easy cleaning







White colour similar to RAL 9002. AISI 303 stainless steel boss, threaded blind

Diameters: 32 - 40 - 50 - 60 mm

VC.692-CR

Lobe knobs





VC.692-SST-p-P Lobe knobs with solid section Technopolymer, pad





Threaded stud in AISI 303 stainless steel, pressure pad in acetal resin or brass. Diameters: 25 - 32 - 40 - 50 mm

Technopolymer chrome-plated





Technopolymer chrome-plated with polished finish, resistant to wear, rubbing and shocks. Brass boss, threaded blind hole. Diameters: 32 - 40 - 50 - 60 mm

VC.692-SST-p-SV Lobe knobs with

locking thrust pad Technopolymer

PA





AISI 303 stainless steel threaded stud, spherical end.

Diameters: 25 - 32 - 40 - 50 - 60 mm

Solid knobs Technopolymer,

easy cleaning





Brass or AISI 304 stainless steel boss with threaded blind hole; zinc-plated steel or AISI 304 stainless steel threaded stud. Diameters: 25 - 32 - 40 - 50 - 60 mm

VTT-CLEAN

Solid knobs

Technopolymer, easy cleaning





AISI 304 stainless steel boss, threaded blind hole; stainless steel AISI 304 threaded stud. Diameters: 25 - 32 - 40 - 50 - 60 mm

VTT-SST-SAN

Lobe knobs with solid section

Technopolymer with antimicrobial protection







AISI 304 stainless steel boss, threaded blind hole.

Diameters: 40 - 50 mm





2.1 Clamping knobs continues

VTT-SST-VD

Lobe knobs with solid section

Visually Detectable technopolymer, easy cleanina







Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). AISI 304 stainless steel boss, threaded blind hole; stainless steel AISI 304 threaded stud. Diameters: 40 - 50 mm

VTT-LP

Lobe knobs with solid section with retaining chain,

technopolymer







304 stainless steel threaded stud. Diameters: 25 - 32 - 40 - 50 - 60 mm

VTT-HL Knob for tightening with spanner

Technopolymer





Zinc-plated steel or AISI 304 stainless steel hexagonal shank, threaded blind hole. Diameters: 40 - 50 - 60 mm

VMT-SST

Three-arm knobs

Stainless steel, easy cleaning



Undrilled hub, H7 reamed blind hole, blind or threaded pass-through hole. Diameters: 25 - 32 - 40 - 50 - 60 mm

GN 5334.13 Lobe knobs

with retaining chain or retaining cable, stainless steel



Hub with threaded blind hole, threaded pin. Diameters: 40 - 50 - 60 mm

Lobe knobs with solid section

Metal Detectable technopolymer, easy cleaning







Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011).AISI 304 stainless steel boss, threaded blind hole; stainless steel AISI 304 threaded stud. Diameters: 40 - 50 mm

VTT-RC

Lobe knobs with solid section

with elastic fork. technopolymer







Brass or AISI 304 stainless steel boss, threaded blind hole; zinc-plated steel or AISI 304 stainless steel threaded stud. Diameters: 25 - 32 - 40 - 50 mm

VTT-C

Lobe knobs

with cap, technopolymer





Brass boss with threaded pass-through hole, zinc-plated steel threaded stud. Cap in standard colours. Diameters: 25 - 32 - 40 - 50 mm

VMT-A4

Three-arm knobs

easy cleaning



Undrilled hub, H7 reamed blind hole, blind or threaded pass-through hole.

Diameters: 25 - 32 - 40 - 50 - 60 mm

AISI 316L stainless steel,





GN 5445

Three-arm knobs

Stainless Steel, Hygienic Design





Threaded blind hole. Diameters: 40 - 50 mm





































2.1 Clamping knobs

continues

Safety lobe knobs Technopolymer



Brass boss, threaded blind hole; AISI 304 stainless steel threaded stud. Technopolymer security key with stainless steel anti-intrusion profile, available in fold-away or ball key version. Diameters: 42 - 55 mm

Technopolymer, with lock

Safety lobe knobs

Brass boss, threaded pass-through hole; zinc-plated steel threaded stud. Diameter: 63 mm

VC.253 **Shortened lobe** knobs Duroplast

PF



Black-oxide steel boss, threaded pass-through hole. Diameters: 40 - 50 - 60 - 85 mm



Brass boss, threaded pass-through hole. Diameters: 40 - 50 - 60 - 70 - 85 mm



PF



Black-oxide steel boss, AISI 303 stainless steel or brass boss with plain or threaded blind hole; zinc-plated steel or AISI 303 stainless steel threaded stud.

Diameters: 25 - 32 - 40 - 50 - 60 - 70 - 85 - 100 mm



PF



Hub with H7 reamed blind hole, threaded hole or threaded pin.

Diameters: 40 - 50 - 60 - 70 mm

VCM-SST

Lobe knobs Stainless steel



Hub with H7 reamed blind hole, threaded hole or threaded pin.

Diameters: 40 - 50 - 60 mm

GN 5335

Lobe knobs





Undrilled hub, H7 reamed blind hole, blind or threaded pass-through hole, threaded pin. Diameters: 40 - 50 - 60 mm



Lobe knobs

AISI 316L stainless steel, easy cleaning



Hub with H7 reamed blind hole or threaded blind hole.

Diameters: 40 - 50 - 60 mm

GN 5435

Lobe knobs Hygienic Design

Stainless steel





Hub with threaded blind hole. H-NBR or EPDM synthetic rubber packing ring, FDA compliant. Diameters: 40 - 50 mm





2.1 Clamping knobs continues

Knobs with rear lobes Technopolymer



Black-oxide steel boss with H9 reamed blind or H7 reamed pass-through hole; brass boss with threaded blind hole; zinc-plated steel threaded stud. Cover in standard colours fixed to the knob with ultrasound welding.

Diameters: 45 - 56 - 70 mm

VL.640-FP Handwheels with lobes Technopolymer





Black-oxide steel hub, with pre-drilled blind

Revolving handle I.281+x Diameters: 80 - 100 - 130 mm



VL.155 Lobe knobs Duroplast





Black-oxide steel or brass boss with smooth or threaded blind hole; zinc-plated steel threaded

Diameters: 50 - 60 - 70 - 80 - 100 - 130 mm



Duroplast



Non-drilled black-oxide steel hub with blind pre-drilled hole, H7 reamed pass-through hole, or 6H threaded pass-through hole. Diameters: 50 - 60 - 70 - 80 - 100 - 130 mm

VH.153 Lobe knobs Duroplast

PF



Black-oxide steel or brass boss with smooth or threaded blind hole; zinc-plated steel threaded

Diameters: 54 - 62 - 74 - 85 mm

Lobe knobs

PA





Brass boss, threaded blind hole. Diameter: 50 mm

VCHT.

Lobe knobs

Technopolymer, hub with plain or threaded hole



PA

Zinc-plated steel hub, H7 reamed or threaded pass-through hole.

Diameters: 25 - 32 - 40 - 50 - 63 - 74 mm

PA

Shortened lobe knobs

Technopolymer, square or threaded hole



Brass frame with square pass-through hole; brass boss with threaded pass-through hole. Diameters: 25 - 32 - 40 - 50 - 63 - 74 - 95 mm

Knurled grip knobs

Duroplast, square hole





Brass frame with square pass-through hole. Diameters: 42 - 56 mm

VCR.192

Shortened lobe knobs

Duroplast, square hole



Brass frame with square pass-through hole. Diameters: 40 - 50 - 60 - 70 - 85 - 100 mm









































2.1 Clamping knobs continues

DIN 6335 Star knobs

Cast iron or stainless steel



Hub with H7 reamed blind hole, threaded pass-through or blind hole. Diameters: 32 - 40 - 50 - 63 - 80 - 100 mm

GN 6335 Star knobs AISI 316 stainless steel





Hub with threaded pass-through or blind hole. Diameters: 32 - 40 - 50 - 63 mm

GN 6335.5

Star knobs

Stainless steel, aluminium



Hub with threaded pin. Diameters: 40 - 50 - 63 mm

DIN 6336

Lobe knobs

Cast iron or stainless steel

GN 6336.5

Lobe knobs

Stainless steel, aluminium





Hub with H7 reamed blind hole, threaded pass-through or blind hole. Diameters: 32 - 40 - 50 - 63 - 80 mm

GN 6336

Lobe knobs

AISI 316 stainless steel







Hub with threaded pin. Diameters: 40 - 50 - 63 mm



Hub with threaded pass-through or blind hole. Diameters: 32 - 40 - 50 - 63 mm

GN 6336.3

Quick-tightening

knobs

Technopolymer





PA

Hub with partially threaded pass-through slanting hole.

Diameters: 40 - 50 - 63 mm

Lobe threaded nut

Technopolymer





Brass boss with threaded pass-through hole; threaded zinc-plated steel stud.

Diameters: 40 - 50 mm

GN 6305.1

Quick-tightening toggle nuts

Steel



Hub with partially threaded pass-through slanting hole.

Diameters: 24 - 26 - 32 mm





2.2 Thumb screws



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Material

- Technopolymer (12)
- Duroplast (4)
- Technopolymer Stainless steel (2)
- Steel (8)
- Stainless steel (11)

Type of assembly

- Blind hole (13)
- · Pass-through hole (10)
- Threaded screw (17)

VTR.

PA

Knobs Technopolymer





Brass boss, square, threaded blind or pass-through hole; zinc-plated steel threaded

Diameters: 32 - 40 - 50 - 60 mm

VTRM-SST

Knobs

Stainless steel, easy cleaning



MDA.

PA

Fluted knobs

Technopolymer,

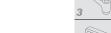
assembly with screw

Grey closing cap.

press-fitted inside the knob.

Diameters: 30 - 40 - 50 mm

Hub with threaded blind hole. Diameters: 32 - 40 - 50 - 60 mm



































MCT.

Fluted knobs

Technopolymer, assembly with screw



PA

Cover in orange or black colour. Assembly by means of hexagon head screws

or standard lock nuts (not supplied) to put in place inside the knob by pressing. Diameters: 35 - 50 - 70 mm



Fluted knobs

Technopolymer





Brass or AISI 303 stainless steel boss with threaded pass-through or blind hole; zinc-plated steel or AISI 303 stainless steel threaded stud.

Assembly by means of hexagonal-head screws

or standard lock nuts (not supplied) to be

Diameters: 12 - 16 - 20 - 25 - 32 - 40 - 50 mm

GN 6303.1 Quick-tightening

knurled knobs Steel



Hub with partially threaded pass-through slanting hole.

Diameters: 20 - 24 - 30 - 36 - 40 mm

BT-ESD

Fluted knobs

ESD conductive technopolymer

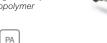


Brass boss with threaded blind or pass-through hole; zinc-plated steel threaded stud. Diameters: 16 - 20 - 25 - 32 mm

BT-SST-p-SV

Fluted knobs with locking thrust pad

Technopolymer



AISI 303 stainless steel threaded stud, spherical end.

Diameters: 25 - 32 - 40 mm

Retained fluted knobs

Technopolymer





Zinc-plated steel or AISI 304 stainless steel threaded stud.

Diameters: 25 - 32 mm

BT-AV

PA

Fluted knobs

for screwing with a screwdriver, technopolymer



Brass boss with threaded blind hole; zinc-plated steel threaded stud. Diameters: 12 - 16 - 20 mm





2.2 Thumb screws continues

BT-HP-AV

Retained fluted knobs

for screwing with a screwdriver. technopolymer



Zinc-plated steel or AISI 304 stainless steel threaded stud.

Diameters: 12 - 16 - 20 mm

Fluted knobs

Technopolymer, elongated hub



Brass boss with threaded blind hole; zinc-plated steel threaded stud. Diameters: 20 - 25 mm



B.193 Knurled knobs

Duroplast







Brass or AISI 303 stainless steel boss with threaded pass-through or blind hole; zinc-plated steel or AISI 303 stainless steel threaded stud. Diameters: 15 - 18 - 22 - 25 - 30 - 35 - 40 - 50 mm

BM.193-SST

Knurled knobs

Stainless steel



Hub with threaded blind hole or threaded pin. Diameters: 20 - 24 - 28 mm

B.259

Knurled knobs

Duroplast



PF

Brass boss with threaded blind hole, or zincplated steel threaded stud.

Diameters: 20 - 25 - 30 mm

B.259-CLEAN

Knurled knobs

Duroplast, easy cleaning









AISI 303 stainless steel boss, threaded blind

Diameters: 20 - 25 - 30 mm

B.220

Knurled knobs

Duroplast





Black-oxide steel hub, plain blind hole. Diameter: 32 mm

DIN 6303

Knurled knobs Steel



Plain or threaded pass-through hole, with or without transverse semi-hole.

Diameters: 20 - 24 - 30 - 36 - 40 mm

DIN 6303-NI

Knurled knobs

Stainless steel





Threaded pass-through hole, with or without transverse semi-hole.

Diameters: 20 - 24 - 30 - 36 - 40 mm

DIN 464

Knurled knobs

Steel or stainless steel





Threaded pin.

Diameters: 12 - 16 - 20 - 24 - 30 - 36 mm





2.2 Thumb screws continues

GN 464.1

Knurled knobs with hexagon socket





Zinc-plated steel. Threaded pin. Diameters: 20 - 24 - 30 - 36 mm

DIN 466

Knurled knobs

Steel or stainless steel



Hub with threaded pass-through hole. Diameters: 16 - 20 - 24 - 30 - 36 mm





GN 653.2 Retained screws with knurled knob

Steel or stainless steel



Partially threaded pin. Diameters: 16 - 20 - 24 - 30 mm



























DIN 653

Knurled knobs

Steel or stainless steel



Threaded pin.

Diameters: 12 - 16 - 20 - 24 - 30 - 36 mm

Diamond-cut knobs

Technopolymer



PP

Brass boss with plain or threaded blind hole; threaded zinc-plated steel stud. Cap in standard colours. Diameters: 30 - 40 - 50 - 60 - 70 mm

DIN 467

Knurled knobs

Steel or stainless steel



Threaded pass-through hole. Diameters: 12 - 16 - 20 - 24 - 30 - 36 - 40 mm

MBT.SOFT

Fluted knobs

Soft-touch technopolymer



Technopolymer suitable for food contact (FDA CFR.21 and EU 10/2011). Brass boss with plain or threaded blind hole; threaded zinc-plated steel stud.

Diameters: 45 - 55 mm

EWN.

Wing Nuts

Technopolymer



Brass or AISI 303 stainless steel boss, threaded blind or pass-through hole; zinc-plated steel or AISI 303 stainless steel threaded stud.

Diameters: 40 - 47 - 55 - 63 - 70 mm

Cap in standard colours.

EWN-SST-SAN

Wing Nuts

Technopolymer with antimicrobial protection





AISI 304 stainless steel boss, threaded blind

Centre cap in charcoal grey or white colours. Diameters: 40 - 55 mm

2.3 Wing nuts and wing knobs









2.3 Wing nuts and wing knobs continues



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Material

- Technopolymer (10)
- · Stainless steel (13)

Type of assembly

- Blind hole (7)
- Pass-through hole (9)
- Threaded screw (11)

EWN-SST-p-P

Wing Nuts





Threaded stud in AISI 303 stainless steel, pressure pad in acetal resin or brass. Cap in standard colours. Diameters: 47 - 55 - 70 mm

EWN-LP

Wing Nuts

with retaining chain, technopolymer







Brass or AISI 303 stainless steel boss with threaded pass-through hole; zinc-plated steel or AISI 303 stainless steel threaded stud. Centre cap in charcoal grey colour. Diameters: 47 - 55 - 63 mm

Single wing nuts

Technopolymer

ERGÖSTYLE*



Brass boss, threaded pass-through hole. Cap in standard colours. Diameters: 55 - 70 mm

EWN-RC

Wing Nuts

with elastic fork, technopolymer







Brass or AISI 303 stainless steel boss, threaded pass-through hole; zinc-plated steel or AISI 303 stainless steel threaded stud.

Centre cap in charcoal grey colour. Diameters: 47 - 55 - 63 mm

CWN.

PA

Wing Nuts

Technopolymer



Brass boss with threaded blind or pass-through hole; zinc-plated steel threaded stud. Diameters: 32 - 40 mm

EWNM-SST Wing Nuts

Stainless steel



Threaded blind or pass-through hole, threaded

Diameters: 40 - 48 - 55 mm

GN 8341

Wing Nuts

Stainless Steel AISI 316, Hygienic Design



Blue H-NBR or EPDM synthetic rubber packing ring, FDA-compliant.

Hub with threaded blind hole.

Diameters: 40 - 50 - 63 mm

GN 8350

Wing Nuts

AISI 316 stainless steel



Threaded pin.

Diameters: 32 - 40 - 50 - 63 mm

CT.476

Wing screws

Technopolymer



Brass boss with threaded pass-through or blind hole; zinc-plated steel or AISI 303 stainless steel threaded stud.

Diameters: 20 - 25 - 30 - 40 - 48 - 56 mm

CT-FG

Wing screws

With flange, technopolymer



Brass boss with threaded blind hole; zinc-plated steel or AISI 304 stainless steel threaded stud.

Diameters: 25 - 30 mm







2.3 Wing nuts and wing knobs continues

CTL.476 Wing screws Technopolymer

PA

GN 434

Wing screws

Stainless steel



Brass boss with threaded blind or pass-through hole; zinc-plated steel threaded stud. Diameters: 25 - 30 - 40 - 48 - 56 mm

GN 433 Wing screws Stainless steel





Hub with threaded pin. Diameters: 20 - 26 - 34 mm













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- Technopolymer (4)
- · Aluminium Steel (1)
- Blind hole (5)

Torque limiting knob Technopolymer

Hub with threaded blind hole.

Diameters: 20 - 26 - 34 mm



PA

Zinc-plated steel boss with threaded blind hole. Grey closing cap.

Spring of the torque limiter from 2 Nm to 6 Nm. Diameters 60 - 80 mm







Black-oxide steel boss with threaded blind hole or threaded screw.

Grey closing cap.

Torque limiting knobs

SUPER-technopolymer

Adjustable torques from 0.2 to 1.0 Nm Diameter 47 mm



Type of assembly

- Threaded screw (4)

GN 3663

Torque limiting knob Aluminium and steel



Hub with threaded blind hole or threaded screw.

Grey closing cap.

Torque limiting wing

CTD

knobs Technopolymer

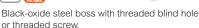
PA

Spring of the torque limiter from 0.7 Nm to 5.5 Nm. Diameters: 27 - 34 - 42 - 52 - 62 mm



PA





Grey closing cap.

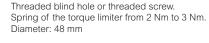
Spring of the torque limiter from 2 Nm to 7.5 Nm. Diameters: 50 - 63 - 80 mm



GN 3664





































Retained clamping elements







A common application is the use of **threaded inserts with locking mechanisms**. They ensure that knobs remain securely in place, even under vibrations or mechanical stress, thanks to the non-threaded section.



BT-HP e BT-HP-AV

Retained fluted knobs





Retained screws with knurled knob



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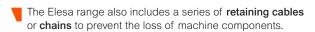














Polyethylene and stainless steel retaining cables



Technopolymer and stainless steel ball chains



Brass and stainless steel ball chains



Stainless steel retaining cables also with black or transparent PVC coating

GN 111.4

Polyurethane and stainless steel spiral retaining cables



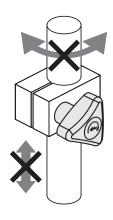


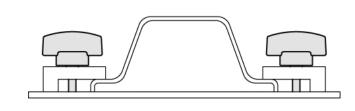


Torque limiting knobs

Elesa **torque limiting knobs** allow users to set the maximum tightening torque, ensuring **fast** and **secure fastening**. This prevents unsightly damage or deformation of surfaces on laboratory machinery, key duplicators, blade sharpening tools, and sports equipment.

■ Application examples





Torque (Nm)	0,2	0,7	1,0	1,5	2,0	2,2	2,5	3,0	3,2	4,0	4,7	5,5	6,0	7,5
MZD Adjustable torque limiting knobs	Adjustable													
CTD Torque limiting wing knobs														
VTD Torque limiting knob														
GN 3663 Torque limiting knob														
GN 3664 Torque limiting knob														







































is limited due to lack of space. Available with push buttons and levers in different colours to identify and differentiate the various functions.

3.1 Clamping handles and levers



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Material

- Technopolymer (12)
- Steel (3)
- · Stainless steel (16)
- · Aluminium (1)
- · Die-cast zinc alloy (9)

Type of assembly

- Blind hole (27)
- · Threaded screw (26)

Adjustable handles Technopolymer





Technopolymer clamping element with brass or AISI 303 stainless steel boss and threaded blind hole; zinc-plated steel or AISI 303 stainless steel threaded stud. Technopolymer push button, glossy finish. Dimensions: 42 - 65 - 80 mm

ERX-CR

Adjustable handles

Technopolymer chrome-plated







Technopolymer element with brass boss and threaded blind hole.

Dimensions: 44 - 63 - 78 - 95 mm

Adjustable handles Technopolymer





Push button in Ergostyle colours with glossy finish. Technopolymer element with brass or AISI 303 stainless steel boss, threaded blind hole; zinc-plated steel or AISI 303 stainless steel threaded stud.

Dimensions: 30 - 44 - 63 - 78 - 95 - 108 mm

MT-ERX

Tool for mounting ERX adjustable handles

for an electric or pneumatic screwdriver, aluminium



Suitable for quickly mounting the ERX.63 and ERX.78 adjustable handles using an electric or pneumatic screwdriver to be fitted onto the hexagon.

Diameters: 40 - 50 mm

ERX-AV Adjustable handles

Quick assembly,

technopolymer



Adjustable push button for quick screwing during assembly by means of screwdrivers. Clamping element in technopolymer with brass boss and threaded blind hole; zinc-plated steel threaded stud.

Dimension: 78 mm

Safety adjustable handles Push action,

technopolymer





Technopolymer clamping element with black-oxide steel or brass boss with threaded blind hole; black-oxide threaded stud. In case of accidental shocks, the lever turns freely without affecting the clamping action. Dimensions: 44 - 63 mm

Adjustable handles

Technopolymer





Technopolymer clamping element with black-oxide steel or brass boss with plain or threaded blind hole; zinc-plated steel threaded stud.

Dimensions: 42 - 63 - 80 - 100 mm

MRX.

Adjustable handles

Technopolymer

PA





Technopolymer clamping element with brass or AISI 303 stainless steel boss and threaded blind hole; zinc-plated steel or AISI 303 stainless steel threaded stud.

Dimensions: 42 - 63 - 80 - 100 mm



































3.1 Clamping handles and levers

continues

Adjustable handles

Technopolymer, steel or stainless steel clamping element





Zinc alloy insert for coupling to the clamping element. Black-oxide steel or AISI 303 stainless steel clamping element, threaded hole or threaded pin.

Dimensions: 44 - 63 - 78 - 95 mm

ERZ-SST-SAN

Adjustable handles

Technopolymer with antimicrobial protection



Zinc alloy insert for coupling to the clamping element.

AISI 303 stainless steel clamp, threaded hole. Dimensions: 63 - 78 mm

ERZ-SST-MD

Adjustable handles Metal Detectable

technopolymer, stainless steel clamping element









Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). Zinc alloy insert for coupling to the clamping element. AISI 303 stainless steel clamp, threaded hole or pin. Dimensions: 63 - 78 mm

ERZ-SST-VD

Adjustable handles

Visually Detectable technopolymer, stainless steel clamping element





MRY-SST-HVD Watertight adjustable

Visually Detectable

technopolymer

handles



Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). Zinc alloy insert for coupling to the clamping element. AISI 303 stainless steel clamp, threaded hole or pin. Dimensions: 63 - 78 mm

Produced from FDA compliant raw material

Zinc alloy insert for coupling to the clamping

threaded hole or pin. Dimensions: 63 - 78 mm

element. AISI 303 stainless steel clamp,

(FDA CFR.21 and EU 10/2011).

Adjustable handles

Zinc alloy, steel or stainless steel clamping element





Orange, red, grey or black colour. Black-oxide steel or AISI 303 stainless steel clamping element, threaded hole or threaded





pin. Dimensions: 44 - 63 - 78 - 95 mm

GN 300

Adjustable handles Zinc alloy



Orange, grey or black colour. Black-oxide steel or AISI 303 stainless steel clamping element, threaded hole or threaded

Dimensions: 30 - 45 - 63 - 78 - 92 - 108 mm

GN 300.1

Adjustable handles Zinc alloy



Orange, grey or black colour. Black-oxide steel or AISI 303 stainless steel clamping element, threaded hole or threaded

Dimensions: 30 - 45 - 63 - 78 - 92 - 108 mm

GN 300.5

Adjustable handles

Stainless steel



Orange, grey or black colour. Black-oxide steel or AISI 303 stainless steel clamping element, threaded hole or threaded pin.

Dimensions: 30 - 45 - 63 - 78 - 92 - 108 mm

GN 305

Adjustable handles

Stainless Steel, Hygienic Design







AISI 316 stainless steel lever. H-NBR synthetic rubber packing ring, FDA compliant. AISI 304 stainless steel clamp, threaded hole or pin.

Dimensions: 63 - 78 mm









































3.1 Clamping handles and levers

continues

GN 306

Adjustable handles with clamping ends, zinc alloy



Clamp and threaded pin in black-oxide steel. Pressure pad in brass or technopolymer, spherical tip or oval tip or thrust pad. Dimensions: 30 - 45 - 63 mm

Adjustable handles Flat lever, technopolymer



Technopolymer element with brass or AISI 303 stainless steel boss, threaded blind hole; zinc-plated steel or AISI 303 stainless steel threaded stud.

PA

Dimensions: 22 - 30 - 44 - 63 - 78 mm

GN 302

Adjustable handles

Flat lever, zinc alloy, steel clamping element



Black-oxide steel clamping element, threaded hole or threaded pin.

Dimensions: 30 - 45 - 63 - 78 mm

GN 302.1

Adjustable handles

Flat lever, zinc alloy, stainless steel clamping element



AISI 303 stainless steel clamp, threaded hole

Dimensions: 30 - 45 - 63 - 78 mm

GN 302.2

Adjustable handles

Flat lever, zinc alloy, zinc-plated steel clamping element



Zinc-plated steel clamp, threaded hole or pin. Dimensions: 22 - 30 - 45 - 63 - 78 mm

GN 300.4 Adjustable handles

with torque amplifier, zinc alloy and steel



Black-oxide steel clamping element, threaded hole or threaded pin.

Dimensions: 63 - 78 - 92 - 108 mm

GN 307

Adjustable handles with support washer,

die-cast zinc and steel



Black-oxide steel clamping element, threaded hole or threaded pin.

Dimensions: 30 - 45 - 63 - 78 mm

GN 126

Adjustable handles

Zinc alloy lever, steel clamping element



Black-oxide steel clamping element, threaded hole or threaded pin.

Dimensions: 120 - 145 mm

GN 126.1

Adjustable handles

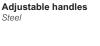
Zinc alloy lever, stainless steel clamping element



Black-oxide steel clamping element, threaded hole or threaded pin.

Dimensions: 120 - 145 mm

GN 125





Black-oxide steel lever with straight or slightly inclined arm. Black-oxide steel clamping element, threaded hole or threaded pin. Duroplast handle.

Dimensions: 100 - 120 - 130 - 145 mm





3.1 Clamping handles and levers

continues

GN 6337.3 Adjustable handles Push action, steel



Black-oxide steel clamping element, threaded hole or threaded pin. Duroplast handle.

Dimensions: 70 - 87 - 109 mm

3.2 Lever handles



Material

- Technopolymer (3)
- Duroplast (1)
- Steel (7)
- · Stainless steel (6)
- · Cast iron (1)

Type of assembly

- Blind hole (5)
- · Pass-through hole (8)
- Threaded screw (2)

Lever handles Technopolymer





Brass boss with threaded blind hole or zinc-plated steel threaded stud; cylindrical blind hole, brass reinforcement with transversal semi-machined hole for pinning to shaft; square blind hole, transversal set screw. Dimensions: 44 - 63 - 78 - 95 mm

PA

Lever handles Technopolymer



Brass boss, threaded blind hole or zinc-plated steel threaded stud, cylindrical or square blind hole and brass reinforcement with transversal semi-machined hole for pinning to shaft. Dimensions: 42 - 63 - 80 - 100 mm

DIN 6337

Lever handles Steel



Cylindrical or threaded pass-through hole. Dimensions: 60 - 76 - 95 - 119 - 152 mm

DIN 99

Lever handles Steel or stainless steel



Cylindrical or threaded pass-through hole. Dimensions: 48 - 60 - 76 - 95 - 119 - 152 mm

GN 212.4 Adjustable handles

Steel



Black-oxide steel clamping element, threaded hole or threaded pin. Duroplast handle.

Dimensions: 87 - 102 - 116 - 132 - 148 mm

Flat lever handles Technopolymer





Dimensions: 44 - 63 - 78 mm

M.180

Lever handles

Duroplast



Black-oxide steel boss with cylindrical blind hole. Brass boss with cylindrical blind, threaded blind or square hole with transversal semi-machined hole for pinning to shaft. Dimensions: 79 - 99 - 118 mm

GN 206

Lever handles

Cast iron or stainless



Threaded pass-through hole. Dimensions: 56 - 70 - 87 - 109 - 140 mm

GN 99.5 - GN 99.6

Lever handles

Steel or stainless steel





Threaded pass-through hole. Dimensions: 50 - 60 - 80 - 100 - 120 mm





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3.2 Lever handles continues

GN 99.7 - GN 99.8

Clamping nuts with double lever

Steel or stainless steel



Threaded pass-through hole. Dimensions: 50 - 60 - 80 - 100 - 120 mm

GN 206.1-NI

Clamping nuts with double levers

Stainless steel





Threaded pass-through hole. Dimensions: 55 - 70 - 85 - 110 - 140 mm

GN 216

Lever handles

Steel



Duroplast handle.

H7 reamed blind hole or threaded blind hole. Dimensions: 85 - 100 -115 - 130 - 145 - 165 mm

GN 316

Ratchet spanners

Steel



Duroplast handle. Insert with square hole.

Dimensions: 120 - 155 - 185 - 220 mm

Split hubs



AISI 304 stainless steel hexagon socket. Dimensions: 24 - 28 - 32 mm

GN 150 - GN 150.5

Steel or stainless steel



Cylindrical head screw with black-oxide steel or

3.3 Cam levers



elesa.com

· Technopolymer (2)

· Stainless steel (2) · Die-cast zinc alloy (2) Type of assembly • Blind hole (5) · Threaded screw (8)

Material

• Steel (2)

Cam clamping levers Technopolymer







SUPER-technopolymer cam sliding base. Rotating pin with zinc-plated steel or AISI 303 stainless steel threaded hole; zinc-plated steel or AISI 303 stainless steel threaded pin. LAC.R cam lever with adjustable knurled ring-nut. Dimensions: 44 - 63 - 79 mm

GN 927

Cam clamping levers Zinc alloy



Die-cast zinc alloy lever. Rotating pin and clamping element with zinc-plated steel threaded hole or stud. Zinc-plated steel bushing with contact insert in technopolymer or fully in technopolymer. Dimensions: 44 - 63 - 82 - 101 mm

AC-FL Cam levers

for quick clamping, technopolymer





Threaded pin in SUPER-technopolymer. Elastic expansion retention element in synthetic rubber.

With or without anti-rotation pin. Dimension: 55 mm

GN 927.2

Cam levers Steel



Zinc-plated steel cast lever. Rotating pin and clamp with hole or zinc-plated steel threaded screw. Zinc-plated steel support boss with zinc-plated steel contact insert, or made completely of zinc-plated steel. Sizes: 44 - 63 - 82 - 101 mm





3.3 Cam levers continues

GN 927.3 Cam clamping levers

Steel



Zinc-plated steel cast lever.
Rotating pin and clamping element with zinc-plated steel threaded hole or stud.
Zinc-plated steel bushing with contact insert in technopolymer or fully in technopolymer.
Dimensions: 44 - 63 - 82 - 101 mm

GN 927.5

Cam clamping levers Stainless steel



INOX STAINLESS STEEL

AISI CF-8 stainless steel lever.
Rotating pin and clamp with threaded hole or screw in AISI 303 stainless steel.
Zinc-plated steel bushing with contact insert in technopolymer or fully in technopolymer.
Dimensions: 44 - 63 - 82 - 101 mm

GN 927.4

Cam clamping levers Zinc alloy and stainless steel



INOX STAINLESS STEEL

Die-cast zinc alloy lever. Rotating pin and clamp with threaded hole or screw in AISI 303 stainless steel. AISI 303 stainless steel support bushing with technopolymer contact insert or fully in technopolymer.

Dimensions: 44 - 63 - 82 - 101 mm











































Handles



Wide range of shapes, types and materials.

The ergonomic design provides a comfortable and secure grip for the operator's hand.

4.1 Bridge handles



elesa.com

Material

- Technopolymer (33)
- · Duroplast (1)
- Steel (9)
- · Stainless steel (24)
- · Aluminium (33)

Type of assembly

- · Blind hole (63)
- · Pass-through hole (33)
- Threaded screw (7)
- Not drilled (1)
- · For welding (2)

Bridge handles Technopolymer





Available in black, orange, grey, red and green colours. Front mounting via pass-through holes for cylindrical-head screws with hexagon socket, flat countersunk head screws, hexagon head screws or nuts. Assembly centre distances: 94 - 117 - 120÷122 - 132 - 140 - 149÷152 - 150 - 160 - 179 - 235 mm

M.443 AE-V0

Bridge handles Self-extinguishing technopolymer







Front mounting via pass-through holes for cylindrical-head screws with hexagon socket. Assembly centre distances: 94 - 117 - 132 -179 mm

M.443 ESD

Bridge handles

ESD conductive technopolymer









Front mounting via pass-through holes for cylindrical-head screws with hexagon socket. Assembly centre distances: 94 - 117 mm

M.453-SEMI-S8

Bridge handles

According to SEMI-S8 guidelines, technopolymer





Front mounting via pass-through holes for cylindrical-head screws with hexagon socket. Assembly centre distance: 150 mm

M.543

Bridge handles Technopolymer





PA

Available in black or orange colour. Rear mounting via brass bosses, threaded blind holes or threaded studs.

Assembly centre distance: 94 - 105 - 117 - 132 - 179 mm

M.343-SOFT

Bridge handles

Technopolymer with Soft-touch ergonomic inserts





Thermoplastic elastomer inserts in standard colours. Rear mounting via brass bosses with threaded blind holes or front mounting via pass-through holes for cylindrical-head screws with hexagon socket.

Assembly centre distance: 132 mm

Bridge handles

Technopolymer

EMPC.



ERGOSTYLE®

Cover in standard colours.

Front or rear mounting via pass-through holes for cylindrical-head screws with hexagon socket, hexagonal-head screws or nuts. Assembly centre distances: 117÷120

Bridge handle

Technopolymer







Front or rear mounting via pass-through holes for cylindrical-head screws with hexagon socket, hexagonal-head screws or nuts. Assembly centre distances: 117÷120







4.1 Bridge handles continues





Boss caps in standard colours. Rear mounting via brass bosses with threaded blind holes or front mounting via pass-through holes for cylindrical-head screws with hexagon socket. Assembly centre distances: 94 - 117 - 120 -132 - 150 - 180 mm

EBP-SAN

Bridge handles



FRGOSTYLE®



Front mounting via pass-through holes for cylindrical-head screws with hexagon socket. Assembly centre distances: 117 - 180 mm

EBP.FLX

Flexible bridge handles

Technopolymer with elastomer

ERGOSTYLE®



Boss caps in standard colours. Front mounting via brass bosses with pass-through holes for cylindrical-head screws with hexagon socket. Assembly centre distances: 117 - 150 mm

Bridge handles

Technopolymer

EBP-L



EBP-L-CLEAN Bridge handles

Technopolymer, easy cleaning



White colour boss caps. Front or rear mounting via pass-through holes for cylindrical-head screws with hexagon socket, hexagonal-head screws or nuts. Assembly centre distance: 300 mm

Bridge handle Technopolymer



Boss caps in standard colours. Front mounting via pass-through holes for cylindrical-head screws with hexagon socket. Assembly centre distance: 132 mm

PΑ

M.2000

Bridge handle

Self-extinguishing technopolymer



Rear mounting via brass bosses with threaded blind holes.

Assembly centre distance: 180 mm

M.478 Bridge handle

PA

Technopolymer



Front mounting via pass-through holes for screws or rivets.

Assembly centre distance: 150 mm

M.479

Bridge handles

Technopolymer



Threaded pin in SUPER-technopolymer. Elastic expansion retention element in synthetic rubber

With or without anti-rotation pin.

Dimension: 55 mm

M.843

Bridge handles





Available in standard colours.

Rear mounting via brass bosses, threaded blind holes.

Assembly centre distance: 86 - 117 - 179 -300 mm









































4.1 Bridge handles continues

M.843-CLEAN

Bridge handles Technopolymer,

Technopolyme easy cleaning







For application with medical, hospital and food equipment.

Rear mounting via AISI 303 stainless steel bosses, threaded blind holes.

Assembly centre distance: 86 - 117 - 179 - 300 mm

M.243 Bridge handles

Duroplast





Rear mounting via brass bosses, threaded blind holes.

Assembly centre distances: 86 - 117 - 179 mm

M.643

PP

Bridge handles

Technopolymer





Rear mounting via brass bosses with threaded blind holes or front mounting via pass-through holes for cylindrical-head screws with hexagon socket (M.643-FM). Assembly centre distance: 86 - 94 - 117 - 120 - 132 - 140 - 150 - 160 - 179 - 192 - 235 - 300 mm

M.643 HT

Bridge handles

Technopolymer with high thermic resistance





Rear mounting via brass bosses, threaded blind holes.

Assembly centre distances: 86 - 117 - 179 mm

M.643-SST-VD

Bridge handles

Visually Detectable technopolymer









Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). Rear mounting via AISI 303 stainless steel

bosses, threaded blind holes. Assembly centre distances: 117 - 179 mm

M.643-SST-MD

Bridge handles

Metal Detectable technopolymer









Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011).

Rear mounting via AISI 303 stainless steel bosses, threaded blind holes.

Assembly centre distances: 117 - 179 mm

GN 565 Bridge h

Bridge handles Aluminum





Bar with oval cross section, aluminium with natural finish, anodised or UV-resistant epoxy resin coating.

Back mounting with threaded blind holes. Assembly centre distances: 100 - 112 - 117 - 120 - 128 - 160 - 180 - 200 - 235 mm

GN 565-SMA

Bridge handles

Aluminium with antibacterial coating





Oval cross section bar.

Back mounting with threaded blind holes. Assembly centre distances: 100 - 112 - 128 -

160 - 192 - 300 mm

GN 565-WSA

Bridge handles

Aluminium with antibacterial coating







Oval cross section bar. Back mounting with threaded blind holes. Assembly centre distances: 100 - 112 - 128 -160 - 192 - 300 mm

GN 565.1 Bridge handles

Aluminum





Bar with oval cross section, natural aluminium, anodised or UV-resistant resin coating. Front mounting via pass-through holes for cylindrical-head screws.

Assembly centre distances: 100 - 112 - 117 - 120 - 128 - 132 - 160 - 180 - 200 mm





4.1 Bridge handles continues

GN 565.5 **Bridge handles** Stainless steel







Bar with oval cross section AISI 304 stainless steel or AISI CF-8 cast steel. Rear mounting via threaded blind holes or front mounting via pass-through holes for cylindrical-head screws. Assembly centre distances: 112 - 128 - 160 -200 - 250 - 300 - 350 - 400 - 500 mm

GN 425.3

Bridge handles

Mounted by means of welding, steel or stainless steel





Round-section bar, sandblasted finish, without mounting holes.

Assembly centre distances: 64 - 88 - 100 - 125 - 160 - 200 - 250 mm

GN 435.3

Stainless Steel-Cabinet **U-handles**

tall design, for welding, stainless steel





Round-section bar in AISI 304 stainless steel. Rear mounting via holes for set screws or guide pins that ensure positioning and simple securing of the handle. Assembly centre distances: 125 - 160 - 200 - 300 mm

GN 426

Bridge handles Aluminum



Aluminium bar with epoxy resin coating, natural, black or grey colour. Back mounting with threaded blind holes. Assembly centre distances: 200 - 250 - 300 -350 - 400 mm

GN 426-WSA

Bridge handles

SAN

Aluminium with antibacterial coating



Aluminium bar, with antibacterial epoxy resin coating, white colour. Back mounting with threaded blind holes. For use in the healthcare sector and public buildings.

Assembly centre distance: 200 - 250 - 300 -400 mm

GN 426.3

Tubular Handles

Steel



Tube in oiled steel. Welded mounting.

Assembly centre distances: 150 - 200 - 250 -

300 - 400 - 500 - 600 mm

GN 435

Stainless Steel-Cabinet **U-handles**

tall design, stainless steel





Round-section bar in AISI 303 stainless steel or with epoxy resin coating, black colour. Back mounting with threaded blind holes. Assembly centre distances: 125 - 160 - 200 -300 mm

GN 429

Bridge handles

Stainless Steel, Hygienic Design







Back mounting with threaded blind holes. H-NBR or EPDM synthetic rubber packing ring, FDA compliant. Handles for use in environments that require high levels of hygiene. Assembly centre distances: 125 - 160 - 200 - 250 - 300 mm

GN 426-SMA

Bridge handles Aluminium with

antibacterial coating



Aluminium bar, with antibacterial epoxy resin coating, black colour. Back mounting with threaded blind holes. For use in the healthcare sector and public buildings.

Assembly centre distance: 200 - 250 - 300 -400 mm

GN 426.5

Bridge handles

Stainless steel





Bar or tube in AISI 304 stainless steel, sandblasted matte finish. Assembly centre distance: 200 - 250 - 300 -400 mm









































4.1 Bridge handles

continues

GN 425

Bridge handles

Steel, stainless steel, aluminium



Round-section bar in chrome-plated, blackoxide steel, stainless steel or in aluminium with anodised finish or with epoxy resin coating. Back mounting with threaded blind holes. Assembly centre distances: 64 - 88 - 100 - 120 - 125 - 160 - 180 - 200 - 235 - 250 - 300 mm

GN 427 Bridge handles Aluminum



Bar with oval cross section in anodised aluminium, natural colour, with epoxy resin coating, black colour.

Back mounting with threaded blind holes. Assembly centre distances: 88 - 100 - 120 -180 - 200 - 235 mm

GN 668

Bridge handles Aluminum



Flat oval cross section bar in aluminium natural colour, with epoxy resin coating, silver or black colour.

Back mounting with threaded blind holes. Assembly centre distances: 120 - 160 - 180 -200 - 250 - 300 - 350 - 400 mm

RH-M1

Bridge handles

Aluminum



Round-section bar in anodised aluminium, natural or black colour.

Back mounting with threaded blind holes. Assembly centre distances: 200 - 250 - 300 -350 - 400 mm

RH-VA

Bridge handles

AISI 316L stainless steel





Round-section bar in AISI 316L stainless steel, matte finish. Rear mounting with screws and washers (included in supply).

Assembly centre distances: 200 - 250 - 300 -350 mm

RH-UG-08

Bridge handles

AISI 316L stainless steel





Round-section bar in AISI 316L stainless steel. Mounts in AISI 316L stainless steel. Back mounting with threaded blind holes. Assembly centre distances: 100 - 120 - 140 -160 - 180 mm

RH-M1-CLEAN

Bridge handles

Aluminum





Round-section bar in aluminium, epoxy resin coating, white colour. Back mounting with threaded blind holes. For application with medical, hospital and food equipment. Assembly centre distances: 200 - 250 - 300 -350 - 400 mm

RH-MF

Bridge handles

Oval flat cross section, aluminium



Bar with flat cross section in anodised aluminium, natural or black colour. Back mounting with threaded blind holes. Assembly centre distances: 120 - 140 - 180 -200 - 350 mm

RH-EF

Bridge handles

Oval flat cross section, AISI 316L stainless steel





Bar with flat cross-section in AISI 316L stainless steel, semi-matte finish. Rear mounting with screws and washers (included in supply). Assembly centre distances: 100 - 120 - 150 - 180 -250 - 350 mm

RH-MF-CLEAN

Bridge handles

Oval flat cross section, aluminium





Bar with flat cross-section in aluminium, epoxy resin coating, white colour. Back mounting with threaded blind holes. For application with medical and food equipment. Assembly centre distances: 120 - 140 - 180 -









4.1 Bridge handles continues

RH-OA

Handles

Oval flat cross section, aluminium



Bar with flat cross section in anodised aluminium, natural or black colour. Back mounting with threaded blind holes. Assembly centre distances: 55 - 88 - 100 - 120 - 180 - 200 - 235 - 250 mm

MMT.

Handles for heat insulation

Steel and technopolymer



Rear mounting via threaded blind holes with base bosses in steel, chrome-plated opaque surface. Particularly suitable for application with surfaces subject to high temperatures. Assembly centre distance: 120 - 180 mm

RH-EM

Bridge handles

AISI 316L stainless steel



Round-section bar in AISI 316L stainless steel. Fixing plates in AISI 316L stainless steel. Front mounting via pass-through holes for M8x35 cylindrical-head screws and washers in AISI 316L stainless steel.

Assembly centre distances: 200 - 300 mm

RH-ET-CLEAN

Bridge handles

Stainless steel





Bar in AISI 303 stainless steel.

Rear mounting through threaded blind holes for screws and washers in AISI 304 stainless steel. For application with medical, hospital and food equipment. Assembly centre distances: 100 -120 - 140 - 200 mm

RH-S1

Bridge handles

Rectangular cross section, aluminium



Bar with rectangular cross-section in anodised aluminium, natural or black colour. Back mounting with threaded blind holes. Suitable for use on a 19" rack and instruments in general. Assembly centre distances: 25 - 55 - 88 - 120 - 180 mm

RH-OA-CLEAN

Bridge handles

Oval flat cross section, aluminium





Bar with flat cross-section in aluminium, epoxy resin coating, white colour. Back mounting with threaded blind holes. For application with medical and food equipment.

Assembly centre distances: 55 - 88 - 100 - 120 - 180 - 200 - 235 - 250 mm

RH-ST

Bridge handles

Round cross section, steel



Bar in steel, chrome-plated surface. Washers in chrome-plated brass. Back mounting with threaded blind holes. Assembly centre distances: 32 - 42 - 55 - 64 -76 - 88 mm

RH-SS

Bridge handles

Round cross section, steel



Bar in chrome-plated steel. Plastic central grip zone. Mounts in chrome-plated brass. Back mounting with threaded blind holes. Assembly centre distances: 55 - 88 - 100 - 120 - 180 - 200 mm

Bridge handles

Rectangular cross section, aluminium



Bar with rectangular cross-section in anodised aluminium, natural or black colour. Rear mounting via threaded blind holes or front mounting, pass-through holes for cylindrical-head screws in stainless steel. Suitable for use on a 19" rack and instruments in general. Assembly centre distances: 55 - 88 - 120 - 180 - 235 mm

RH-MG

Bridge handles

Rectangular cross section, aluminium



Bar with rectangular cross-section in anodised aluminium, natural or black colour. Back mounting with threaded blind holes. Assembly centre distances: 90 - 120 mm











































4.1 Bridge handles continues

RH-MG-CLEAN

Bridge handles

Rectangular cross section, aluminium



Epoxy resin coating, white colour. Back mounting with threaded blind holes. For application with medical and food equipment.

Assembly centre distance: 120 mm

RH-UG

Bridge handles

Rectangular cross section, technopolymer and aluminium



Side mounts in technopolymer, natural or black colour. Rear mounting via bosses with threaded blind holes or front mounting via pass-through holes for cylindrical-head screws with hexagon socket in stainless steel. Suitable for use on a 19" rack and instruments in general. Assembly centre distances: 55 - 88 - 100 - 120 - 180 mm

RH-UG-05

Bridge handles

Rectangular cross section, technopolymer and aluminium



Side mounts in technopolymer, black colour. Front mounting via pass-through holes for cylindrical-head screws with hexagon socket in stainless steel. Suitable for use on a 19" rack and instruments in general. Assembly centre distances: 88 - 100 - 120 - 180 - 235 mm

M.943

Bridge handles

Suitable for applications on a 19 rack. technopolymer





Rear mounting via brass bosses with threaded blind holes.

Assembly centre distance: 88 - 120 mm

M.943-HT

Bridge handles

Technopolymer with high thermic resistance





Rear mounting via brass bosses with threaded blind holes.

Assembly centre distance: 88 - 120 mm

GN 565.3 **Bridge handles**

Aluminum



Bar with oval cross-section in aluminium. natural colour, with epoxy resin coating. black colour. Rear mounting via threaded blind holes or front mounting, pass-through holes for flat countersunk-head screws.

Assembly centre distances: 120 - 160 mm

GN 728 - GN 728.5

Bridge handles

Aluminium or stainless steel





Natural colour or epoxy resin coating, black colour. Rear mounting via threaded blind holes or front mounting via pass-through holes for cylindrical-head screws with hexagon socket. Assembly centre distance: 120 - 180 mm

GN 328

Bridge handles Aluminum





Natural colour or epoxy resin coating, grey or black colour.

Rear mounting via threaded blind holes or front mounting via pass-through holes for cylindrical-head screws with hexagon socket. Assembly centre distances: 120 - 140 mm

GN 428

Bridge handles

Aluminum





Natural colour or epoxy resin coating, grey or black colour

Rear mounting via threaded blind holes or front mounting, pass-through holes for screws, nuts and washers in AISI 304 stainless steel

Assembly centre distances: 120 - 140 mm

GN 328.5

Bridge handles AISI 316 stainless steel



Rear mounting via threaded blind holes or front mounting via pass-through holes for cylindrical-head screws with hexagon socket. Assembly centre distances: 120 - 140 mm







4.1 Bridge handles continues

RH-RG Bridge handles

Technopolymer





Front mounting via pass-through holes for cylindrical-head screws with hexagon socket, nuts and zinc-plated washers, included in supply. Assembly centre distances: 100 - 120 - 140 - 160 - 180 mm

RH-AG

Bridge handles

Aluminum



Rear mounting via threaded blind holes or front mounting, pass-through holes for screws, nuts and washers in AISI 304 stainless steel, included in supply.

Assembly centre distances: 120 - 140 - 160 mm

RH-AG-CLEAN

Bridge handles
Aluminum





Aluminium, epoxy resin coating, white colour. Back mounting with threaded blind holes. For applications with medical and hospital equipment and machines for the food industry. Assembly centre distances: 140 - 180 mm

GN 425.1

Double-curved handles

Steel, stainless steel, aluminium



Round cross section bar.

Back mounting with threaded blind holes.

Assembly centre distances: 55 - 64 - 88 - 96 - 100 - 120 - 160 - 180 - 200 mm

M.743

Inclined handles

Technopolymer





Rear mounting via brass bosses, threaded blind holes.

Assembly centre distance: 160 mm

RH-K4

Bridge handles

Technopolymer





Front mounting via pass-through holes for countersunk-head screws with hexagon socket, nuts and zinc-plated washers, included in supply.

Assembly centre distances: 120 - 150 mm

RH-EG

Bridge handles

Stainless steel





Back mounting with threaded blind holes. Assembly centre distances: 140 - 180 mm

RH-VG

Offset handles

AISI 316L stainless steel





Round-section bar with ground surface. Side mounts in AISI 316L stainless steel. Rear mounting via threaded blind holes for screws with hexagon socket and washers in stainless steel.

Assembly centre distances: 250 - 300 mm

GN 426.1 - GN 426.6

Double-curved tubular handles

Aluminium or stainless



Aluminium bar or tube with epoxy resin coating, black or stainless steel.

Back mounting with threaded blind holes. Assembly centre distances: 200 - 250 - 300 - 350 - 500 mm

GN 565.2 - GN 565.7

Inclined handles

Aluminium or stainless steel







Bar with oval cross section in aluminium with natural finish, anodised or with epoxy resin coating. GN 565.7 in AISI 304 stainless steel. Rear mounting via threaded blind holes or front mounting, pass-through holes for screws. Assembly centre distances: 112 - 128 - 160 mm









































4.1 Bridge handles continues

RH-AM

Inclined double-curved handles

Steel



Round-section bar in steel, chrome-plated surface, polished finish.

Back mounting with threaded blind holes. Assembly centre distance: 120 mm

RH-WS

Angled handles

Round cross section, steel



Round-section bar in steel, chrome-plated surface, polished finish.

Back mounting with threaded blind holes. Assembly centre distances: 75 - 90 mm

GN 565.4 Bow handles

Aluminum



Bar with oval cross section in aluminium with natural finish, anodised or with epoxy resin coating, black colour. Rear mounting via threaded blind holes or front mounting via pass-through holes for cylindrical-head screws. Assembly centre distances: 160 - 192 mm

GN 565.9

Bow handles

Stainless steel





Bar with oval cross section in AISI 304 stainless steel. Rear mounting via threaded blind holes or front mounting via pass-through holes for cylindrical-head screws.

Assembly centre distances: 160 - 192 mm

GN 424.1 - GN 424.5

Bow handles Steel or stainless steel



Round-section bar in chrome-plated steel, with epoxy resin coating, grey or black colour or in AISI 303 stainless steel. Back mounting with threaded blind holes. Assembly centre distances: 64 - 96 - 128 - 160 - 192 mm

GN 559 Bridge handles





Aluminium, epoxy resin coating, light grey or black colour. Open or closed form for mounting via threaded blind holes or front open form via pass-through holes for cylindrical-head screws. Assembly centre distance: 128 mm

RH-KW

Handles

Technopolymer



PA

Front mounting via pass-through holes for screws with hexagon socket, nuts, washers and plate in AISI 304 stainless steel, included in supply.

Dimensions 128 - 154 mm

RH-AH Handles

Aluminum



Anodised aluminium, natural or black colour. Back mounting with threaded blind holes. Dimensions 125 - 165 mm

RH-MA

Handles

Steel and technopolymer with elastomer



Rear mounting via self-tapping screws for sheets or front mounting via pass-through holes for screws with flat countersunk-head. Dimensions 203 - 223 - 238 - 241 - 268 mm





4.2 Flush pull handles



elesa.com

Material

- Technopolymer (16)
- · Stainless steel (1)
- · Aluminium (2)
- · Die-cast zinc alloy (1)

Type of assembly

- · Pass-through holes (3)
- Threaded screw (5)
- Snap-in (12)

PR-PF

PA

Flush pull handles for snap-in assembly, technopolymer



Compact shape. The internal profile of the cavity offers a safe, comfortable and ergonomic grip. Dimensions: 92 - 137 - 189 mm

PR-PF-AE-V0

Flush pull handles

for snap-in assembly, technopolymer certified self-extinguishing





Compact shape. The internal profile of the cavity offers a safe, comfortable and

ergonomic grip.

Dimensions: 92 - 137 - 189 mm

EPR-PF-AE-V0

PR-PF-CLEAN

easv cleanina

PA

ergonomic grip.

Flush pull handles

for snap-in assembly,

technopolymer

ERGOSTYLE®

EPR-PF

Compact shape. The internal profile of the cavity offers a safe, comfortable and

For applications with medical and hospital equipment and machines for the food industry. Dimensions: 92 - 137 - 189 mm

The internal cavity profile allows a secure,

comfortable and ergonomic grip.

Dimensions: 90 - 110 - 120 mm

Flush pull handles

for snap-in assembly, technopolymer,

Flush pull handles

for snap-in assembly, technopolymer certified self-extinguishing







The internal cavity profile allows a secure, comfortable and ergonomic grip. Dimensions: 90 - 110 - 120 mm

EPR-PF-CLEAN

Flush pull handles

for snap-in assembly, technopolymer,







The internal cavity profile allows a secure, comfortable and ergonomic grip. For application with medical and food equipment.

GN 7330

Flush pull handles

for mounting with screws, with or without gasket, zinc alloy



Front mounting via pass-through holes for flat countersunk-head M5 screws, or rear mounting via no.4 M5 screws welded to the handle body.

GN 7332

Flush pull handles

for mounting with screws, with or without gasket, stainless steel



Front mounting via pass-through holes for flat countersunk-head M5 screws, or rear mounting via no.4 M5 screws welded to the handle body. Dimensions: 127 - 155 mm

Flush pull handles

for screw mounting, technopolymer







Screw-cover in standard colours. Front mounting via pass-through holes for self-tapping screws in AISI 304 stainless steel. Dimensions: 90 - 110 - 120 mm

easy cleaning











Dimensions: 127 - 155 mm

EPR-PF-IP

Flush pull handles with gasket

for snap-in assembly, technopolymer





The internal cavity profile allows a secure, comfortable and ergonomic grip. IP 65 protection class. Dimensions: 110 - 120 mm











































4.2 Flush pull handles continues

Flush pull handles Technopolymer and aluminium



Side closure in technopolymer. Rear mounting via two rubber profiles to ensure firm and secure attachment; front mounting via pass-through holes for M4 countersunk-head screws. Suitable for use with plates having a thickness between 1.0 and 2.5 mm. Dimensions: 100x90 - 118x90 - 167x90 mm

RH-SG-CLEAN

Flush pull handles Technopolymer and





aluminium

White colour. Back mounting by means of two rubber profiles that ensure a firm and stable installation. For application with medical and food equipment.

Dimensions: 100x90 - 118x90 - 167x90 mm

ERB-PF

Vertical tubular handles

for snap-in assembly, technopolymer





Suitable for opening and closing sliding doors. The ergonomic shape of the cavity provides a comfortable grip.

Dimension: 115 mm

ERB-PF-CLEAN

Vertical tubular handles

for snap-in assembly, technopolymer, easy cleaning







Suitable for opening and closing sliding doors. The ergonomic shape of the cavity provides a comfortable grip.

For application with medical and food equipment. Dimension: 115 mm

ERB-PF-AE-V0

Vertical tubular handles

PA

for snap-in assembly, technopolymer certified self-extinguishing





Technopolymer certified self-extinguish UL-94 V0. Suitable for opening and closing sliding doors. The ergonomic shape of the cavity provides a comfortable grip. Dimension: 115 mm

ERB.

Vertical tubular handles

for screw mounting. technopolymer





Mounting via 4 self-tapping screws in zinc-plated steel, included in the supply. Dimension: 130 mm

ERB-CLEAN Vertical tubular

handles

for screw mounting, technopolymer, easy cleaning









Mounting via 4 self-tapping screws in zinc-plated steel, included in the supply. For application with medical and food equipment.

Dimension: 130 mm

RH-KS

Vertical tubular handles

for screw mounting, technopolymer





Available in black, dark grey, light grey and black. Mounting via 4 screws.

Particularly suitable for mounting on panels with thicknesses from 1 to 5 mm.

Dimension: 140 mm

RH-KM

Flush pull handles

for screw mounting, technopolymer





Available in black, dark grey, light grey and black. Mounting via 4 screws.

Particularly suitable for mounting on panels with thicknesses from 1 to 5 mm.

Dimension: 120 mm

































4.3 Ledge handles



elesa.com

Material

- · Technopolymer (6)
- Stainless steel (2)
- · Aluminium (8)

Type of assembly

- · Blind hole (12)
- · Pass-through hole (6)
- Threaded screw (1)

Side handles with protection







Rear mounting via brass bosses, threaded blind holes. Fixing via two M4 screws or blind holes for fixing via two self-tapping screws for plastic materials.

Dimension: 142 mm

Ledge handles

Technopolymer



PΑ

Front mounting via pass-through holes for cylindrical-head screws, hexagon head screws, flat countersunk-head screws or nuts. The complete closure of the handle represents a safety feature for the operator's fingers. Assembly centre distance: 94 mm

Ledge handles

Technopolymer



PA

Rear mounting via brass bosses, threaded blind holes. Fixing via two M6 screws or blind holes for fixing via two self-tapping screws, not included in supply.

Assembly centre distance: 80 mm

GN 730.5

Handles for protection

Stainless steel

INOX STAINLESS



AISI 316 stainless steel, sandblasted matte

Back mounting with threaded blind holes. Assembly centre distance: 100 mm

RH-EL

Ledge handles

Stainless steel





Back mounting with threaded blind holes. Assembly centre distances: 60 - 80 - 100 - 130 mm

Ledge handles

Technopolymer







Cap in technopolymer, in standard colours. Front mounting via pass-through holes for cylindrical-head screws with hexagon socket, hexagon head screws, flat countersunk-head screws or nuts. Assembly centre distance: 94 mm

M.990

Ledge handles



Front mounting via pass-through holes for cylindrical-head screws, hexagon head screws or nuts. The complete closure of the handle represents a safety feature for the operator's fingers. Assembly centre distance: 95 mm

GN 730 Ledge handles

Aluminum



Anodised aluminium, natural colour or epoxy resin coating, black colour.

Back mounting with threaded blind holes. Assembly centre distances: 110 - 125 - 140 mm

GN 430 - GN 430.1 Ledge handles

Aluminum



Anodised aluminium, natural colour or epoxy resin coating, black colour. Rear mounting via M6 screws, not included in supply. Available with label holder. Assembly centre distance: 66 - 86 - 106 - 156 - 206 - 256 - 356 - 456 mm

RH-LF Ledge handles

Aluminum



Front mounting via pass-through holes for flat countersunk-head screws.

Assembly centre distances: 68 - 88 - 108 mm











































4.3 Ledge handles continues

RH-WP Inclined handles Aluminum



Anodised aluminium, natural or black colour. Rear mounting via threaded blind holes or front mounting via pass-through holes for flat countersunk-head screws.

Assembly centre distances: 86 - 100 - 120 mm

RH-W3 Ledge handles Aluminum



Back mounting with threaded blind holes. Assembly centre distances: 210 - 310 mm

RH-W3-CLEAN

Ledge handles

Aluminum





Back mounting with threaded blind holes. For applications with medical and hospital equipment and machines for the food industry. Assembly centre distances: 210 - 310 mm

RH-LG Ledge handles Aluminum





Anodised aluminium, natural or black colour. Rear mounting via threaded blind holes or front mounting via pass-through holes for flat countersunk-head screws. Assembly centre distances: 64 - 70 - 80 - 90 - 105 mm

PA

Front handles

Technopolymer





Rear mounting via brass bosses, threaded

blind holes. Fixing via two M5 screws or blind

holes for fixing via two self-tapping screws, not

included in supply. Assembly centre distance: 71 mm

RH-AK Handles Aluminum



Rear mounting via threaded blind holes or front mounting, pass-through holes for cylindrical-head screws with hexagon socket, nuts and washers in stainless steel, included in supply. Assembly centre distance: 120 mm

4.4 Folding handles



elesa.com

Folding handles with recessed tray

for screw mounting, technopolymer







Mounting on panels with a maximum thickness of 12 mm using fixing plugs and Ø3.5 self-tapping screws. AISI 316 stainless steel rotating pin. Pressing the retractable button causes the handle to come out of its seat through a snap mechanism. Dimension: 82 mm

Folding handles with recessed tray

with return spring. technopolymer





Front mounting via pass-through holes for M4 or M5 countersunk-head screws, not included in the supply. AISI 303 stainless steel pin, AISI 302 stainless steel springs. Dimensions: 141 - 167 mm

Material

- Technopolymer (6)
- Steel (1)
- · Stainless steel (9)
- Aluminium (1)

Type of assembly

- · Blind hole (1)
- · Pass-through holes (13)
- · Threaded screw (3)
- · For welding (1)

MPR-CLEAN

Folding handles with recessed tray

with return spring. technopolymer, easy cleaning





Front mounting via pass-through holes for M4 or M5 countersunk-head screws, not included in the supply. AISI 303 stainless steel pin, AISI 302 stainless steel springs. For application with medical and food equipment. Dimensions: 141 - 167 mm

GN 425.8

Folding handle with recessed tray

Steel or stainless steel





Mounting plate in die-cast zinc alloy. Handle in chrome-plated steel or in AISI 304 stainless steel. Click device to stop the handle in both positions. Front mounting via pass-through holes for M4 countersunk-head screws. Dimensions: 150 - 170 mm





4.4 Folding handles continues

RH-SK

Folding handles with recessed tray

Aluminum



Handle return spring, from the operating position to the resting position. Trigger device for locking the handle in the two positions. From mounting via pass-through holes for M4 countersunk-head screws. Dimensions: 130 - 200 mm

RH-EE-05

Folding handle with recessed tray

Stainless steel



STAINLESS STEEL

Handle return spring, from the operating position to the resting position. Front mounting via pass-through holes for

M4 screws. Used on equipment when space saving is required. Dimension: 50 mm

RH-EE-07

Folding handles with recessed tray

Stainless steel





Handle return spring, from the operating position to the resting position.

Front mounting via pass-through holes for M4 screws. Used on equipment when space saving is required. Dimension: 132 mm

RH-EE-06

Folding handle with recessed tray

Stainless steel





Handle return spring, from the operating position to the resting position.

Front mounting via pass-through holes for M4 screws. Used on equipment when space saving is required. Dimension: 50 mm

MPE-CLEAN

Folding handles

with return spring, technopolymer, easy cleaning





Front mounting via pass-through holes for flat countersunk-head screws.

AISI 303 stainless steel nin

AISI 303 stainless steel pin.

For application with medical and food equipment. Dimension: 135 mm

RH-EE-01

Folding handle with recessed tray

Stainless steel



INOX STAINLESS STEEL

Handle return spring, from the operating position to the resting position. Front mounting via pass-through holes for M4 screws. Used on equipment when space saving is required. Dimension: 75 mm

RH-EE-03

Folding handles with recessed tray

Stainless steel



NOX TAINLESS STEEL

Handle return spring, from the operating position to the resting position.

Front mounting via pass-through holes for M4 screws. Used on equipment when space saving is required. Dimension: 132 mm

RH-EE-02 Folding handle with recessed tray

Stainless steel



INOX STAINLESS STEEL

Handle return spring, from the operating position to the resting position.

Front mounting via pass-through holes for M5 screws. Used on equipment when space saving is required. Dimension: 120 mm

MPE

Folding handles with return spring, technopolymer



Front mounting via pass-through holes for flat countersunk-head screws with cross recess, not included in the supply. AISI 303 stainless steel pin, AISI 302 stainless steel springs. Dimension: 135 mm

GN 425.9

Folding handles

Stainless steel



STAINLESS STEEL

Rear mounting via a plate with threaded blind holes, front mounting via pass-through holes for cylindrical-head screws or by welding. 90° or 180° opening. With or without retaining spring. Dimension: 120 mm









































4.4 Folding handles continues

RH-KK Folding handles Technopolymer



PA

Stainless steel return springs and pins. Front mounting via pass-through holes for countersunk-head screws, black zinc-plated nuts and washers, included in supply. Dimension: 154 mm

RH-MK Folding handles Steel



Round-section bar in surface-ground steel. Stop spring to keep the handle in the open or folded position in steel. Zinc-plated washers and nuts. Assembly centre distances: 100 - 120 - 180 - 250 mm

RH-EK

Folding handles

Stainless steel



INOX STAINLESS STEEL

Round-section bar in AISI 303 stainless steel. Stop spring to keep the handle in the open or folded position in stainless steel. Stainless steel washers and nuts. Assembly centre distances: 100 - 120 - 180 - 250 mm

4.5 Tubular handles



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Material

- Technopolymer (10)
- · Stainless steel (22)
- Aluminium (43)

Type of assembly

- Blind hole (41)
- · Pass-through hole (17)
- · Threaded screw (11)

EIH.

Tubular handles

Technopolymer and aluminium



DSTYLE® PA

Tube in aluminium with epoxy resin coating or natural aluminium. Side mounts in technopolymer; screw covers in standard colours. Front mounting via pass-through holes for cylindrical-head screws with hexagon socket or nuts. Assembly centre distances: 300 - 400 - 500 - 700 - 1000 mm

M.1043

Tubular Handles

Technopolymer, aluminium, stainless steel









Tube in aluminium with epoxy resin coating, anodised or AISI 304 stainless steel. Tube antirotation side mounts. Rear mounting via bosses with threaded blind holes or front mounting via pass-through holes for cylindrical-head screws. Assembly centre distances: 180 - 200 - 300 - 350 - 400 - 500 - 600 - 700 mm

M.1043-SCM-SST

Tubular handles with intermediate shank Technopolymer and

Technopolymer and stainless steel







AISI 304 stainless steel tube. Tube anti-rotation side mounts. Rear mounting via bosses with threaded blind holes or front mounting via pass-through holes for cylindrical-head screws. Assembly centre distances: 700 - 1000 mm

ETH-CLEAN

Tubular handles *Technopolymer and*

aluminium,

easy cleaning



PA 000000 ERGOSTYL

Tube in coated aluminium, white colour. Side mounts in technopolymer; screw covers in technopolymer. Front mounting via pass-through holes for cylindrical-head screws with hexagon socket or nuts. For application with medical and food equipment. Assembly centre distances: 300 - 400 - 500 - 700 - 1000 mm

M.1043-SCM

Tubular handles with intermediate shank

Technopolymer and aluminium





Aluminium tube with epoxy resin coating or anodized, natural colour. Tube anti-rotation side mounts. Rear mounting via bosses with threaded blind holes or front mounting via pass-through holes for cylindrical-head screws. Assembly centre distances: 700 - 1000 mm

M.1043-HEI

Tubular handles for electrical insulation

Technopolymer and polyester





Polyester tube, black colour, high resistivity. Tube anti-rotation side mounts. Rear mounting via brass bosses with threaded blind holes. Assembly centre distances: 500 - 700 mm





















4.5 Tubular handles continues

M.1066

Tubular handles

Technopolymer, aluminium, stainless steel



Tube in aluminium with epoxy resin coating, anodised or AISI 304 stainless steel. Technopolymer handle shanks. Rear mounting via zinc-plated steel screws with threaded holes or front mounting via cylindrical-head screws, nuts and washers. Assembly centre distances: 200 - 250 - 300 - 400 - 500 - 600 mm

GN 333.1

Tubular handles

Zinc alloy and aluminium



Aluminium tube, anodised, natural or with epoxy resin coating. Zinc alloy die-cast handle shanks with epoxy resin coating. Back mounting with threaded blind holes. Assembly centre distance: 180 - 200 - 300 -400 - 500 mm

Tubular Handles

Oval cross section, technopolymer and aluminium



ERGÖSTYLE[©]



GN 334

Tubular

oval-cross-section handles

Oval cross section, zinc alloy and aluminium



Tube in anodised aluminium, natural colour or epoxy resin coating, black colour. Side mounts in zinc alloy. Back mounting with threaded blind holes. Assembly centre distances: 200 - 250 -300 - 400 - 500 - 600 - 800 mm

GN 335

Tubular Handles

Oval cross section, zinc alloy and aluminium



Tube in anodised aluminium, natural colour or epoxy resin coating, black colour. Side mounts in zinc alloy. Rear mounting via zinc-plated steel screws with threaded holes or front mounting via screws, nuts and washers in AISI 304 stainless steel. Assembly centre distances: 200 - 250 - 300 - 400 - 500 - 600 - 800 mm

M.1066-CLEAN

Tubular handles

Technopolymer, aluminium. easy cleaning





Tube in coated aluminium, white colour. Technopolymer handle shanks. Rear mounting via zinc-plated steel screws with threaded holes. For application with medical and food equipment. Assembly centre distances: 200 -250 - 300 - 400 - 500 - 600 mm

GN 333.7

Tubular Handles

Stainless steel



Tube in AISI 304 stainless steel. Side mounts in AISI CF-8 stainless steel. Back mounting with threaded blind holes. Assembly centre distances: 200 - 300 - 500 mm

EVH-CLEAN

Tubular handles

Oval cross section, technopolymer and aluminiumm. easy cleaning







Tube in coated aluminium, white colour, Side mounts in technopolymer; screw covers in technopolymer. Front mounting via pass-through holes for cylindrical-head screws, hexagonalhead screws or nuts. For application with medical and food equipment. Assembly centre distances: 300 - 400 - 500 - 700 - 1000 mm

GN 334.1 Tubular

oval-cross-section

handles

Oval cross section, zinc alloy and aluminium





Aluminium tube, anodised, natural or with epoxy resin coating. Side mounts in zinc alloy. Front mounting via pass-through holes for cylindrical-head screws, hexagonal-head screws or nuts. Assembly centre distances: 200 - 250 - 300 - 400 - 500 - 600 - 800 mm

GN 669

Tubular handles

Aluminum



Tube in anodised aluminium, natural colour or epoxy resin coating, black colour. Side mounts in aluminium, grey or black colour. Back mounting with threaded blind holes. Assembly centre distances: 200 - 300 - 500 mm







































65

4.5 Tubular handles

continues

RH-A3 **Tubular handles** Aluminum



Tube in anodised extruded aluminium, black colour. Side mounts in anodised aluminium, black colour. Back mounting with threaded blind holes. Assembly centre distances: 200 - 250 - 300 - 400 mm

Tube in AISI 304 stainless steel. Side mounts in anodised extruded aluminium, natural colour. Back mounting with threaded blind holes.

Assembly centre distances: 200 - 300 - 400 mm

RH-ES

Tubular handles

Stainless steel





Tube in AISI 304 stainless steel. Side mounts in stainless steel. Front mounting via pass-through holes for hexagonal-head screws, nuts and washers in stainless steel, included in supply. Assembly centre distances: 200 - 300 - 400 -500 - 600 mm

RH-FG16-00

RH-TL.A3

Tubular handles

Aluminium and stainless steel

Tubular Handles Stainless steel or Technopolymer





Black PVC or AISI 304 stainless steel tube. Technopolymer or AISI 316 stainless steel side mounts. Front or rear mounting via pass-through holes for cylindrical-head screws with hexagon socket, hexagonal-head screws or nuts. Assembly centre distance: 180 - 200 mm

RH-EU

Tubular handles

Stainless steel





Tube in AISI 304 stainless steel. Side mounts in stainless steel. Rear mounting via threaded holes for hexagonal-head screws and washers, included in the supply. Assembly centre distances: 200 - 250 - 300 - 350 - 400 mm

RH-U2

Tubular handles

Aluminium and stainless steel





Tube in AISI 304 stainless steel. Side mounts in aluminium with epoxy resin coating, black colour. Rear mounting via threaded holes for M10x70 screws, nuts and washers in zinc-plated steel. Assembly centre distances: 500 - 700 mm

RH-TL.U3

Tubular handles

Aluminium and stainless steel



Tube in AISI 304 stainless steel. Side mounts in anodised extruded aluminium, natural colour.

Back mounting with threaded blind holes. Assembly centre distances: 300 - 500 - 700 mm

Tubular Handles

Technopolymer and aluminium or stainless steel





Tube in anodised aluminium in natural colour, in AISI 304 stainless steel or AISI 316L stainless steel. Side mounts in technopolymer, black colour. Front or rear mounting via pass-through holes for hexagonal-head screws. Assembly centre distances: 200 - 250 - 300 - 400 - 500 - 600 mm

RH-RS

Tubular Handles

Technopolymer and aluminium or stainless steel





Tube in anodised aluminium in natural colour, in AISI 304 stainless steel or AISI 316L stainless steel. Side mounts in technopolymer, black colour. Front mounting via pass-through holes for cylindrical-head screws. Assembly centre distances: 200 - 250 - 300 - 400 - 500 - 600 mm

RH-VM

Tubular Handles

Technopolymer and aluminium



Tube in anodised extruded aluminium, natural or black colour.

Side mounts in technopolymer, black colour. Back mounting with threaded blind holes. Assembly centre distances: 200 - 250 - 300 mm





4.5 Tubular handles continues

RH-VM-02 **Tubular Handles**

Technopolymer and aluminium



Tube in anodised extruded aluminium, natural or black colour. Side mounts in technopolymer, black colour. Back mounting with threaded blind holes. Assembly centre distance: 200 - 250 - 300 - 400 mm

RH-SP

Offset tubular handle

Technopolymer



PA

Rear mounting via brass bosses, threaded blind holes. Assembly centre distance: 140 mm

RH-II4

Tubular handles

Oval cross section, aluminium



Tube in anodised extruded aluminium, black colour. Side mounts in anodised aluminium, black colour. Back mounting with threaded blind holes. Assembly centre distances: 300 -500 - 700 mm

M.1053-CLEAN

Offset tubular

handles

Technopolymer and aluminium,







Tube in coated aluminium, white colour. Technopolymer handle shanks. Front or rear mounting via pass-through holes for cylindrical-head screws, hexagonal-head screws or nuts. For application with medical and food equipment. Assembly centre distances: 300 - 350 - 400 - 500 - 600 - 700 mm

M.1053-P

Offset tubular handles

Movable handle shanks, technopolymer and aluminium





Tube in aluminium with epoxy resin coating, anodised natural colour. Technopolymer handle shanks. Front or rear mounting via pass-through holes for cylindrical-head screws, hexagonal-head screws or nuts. Assembly centre distances: 295 - 345 - 395 - 495 - 595 - 695 mm

RH-UR

Tubular Handles

Technopolymer and aluminium



Bar in anodised aluminium, black colour. Side mounts in technopolymer, black colour. Back mounting with threaded blind holes. Assembly centre distances: 55 - 88 - 100 - 120 - 180 mm



RH-A4

Tubular handles

Oval cross section, aluminium



Tube in anodised extruded aluminium, black colour. Side mounts in anodised aluminium. black colour. Back mounting with threaded blind holes. Assembly centre distance: 200 -250 - 300 - 400 mm

M.1053

Offset tubular handles

Technopolymer and aluminium





Tube in aluminium with epoxy resin coating, anodised natural colour. Technopolymer handle shanks. Front or rear mounting via pass-through holes for cylindrical-head screws, hexagonal-head screws or nuts. Assembly centre distances: 300 - 350 - 400 -500 - 600 - 700 mm

M.1053-SST Offset tubular

handles

Technopolymer and stainless steel







Tube in AISI 304 stainless steel. Technopolymer handle shanks. Front or rear mounting via pass-through holes for cylindrical-head screws, hexagonal-head screws. Assembly centre distances: 300 - 350 - 400 - 500 - 600 - 700 mm

M.1053-P-CLEAN

Offset tubular handles

Movable handle shanks. technopolymer and aluminium, easy cleaning

PA





Tube in coated aluminium, white colour. Technopolymer handle shanks. Front or rear mounting via pass-through holes for cylindrical-head screws, hexagonal-head screws or nuts. For application with medical and food equipment. Assembly centre distances: 295 - 345 - 395 - 495 - 595 - 695 mm









































4.5 Tubular handles

continues

M.1053-P-SST

Offset tubular handles

Movable handle shanks, technopolymer and stainless steel







Tube in AISI 304 stainless steel. Technopolymer handle shanks. Front or rear mounting via pass-through holes for cylindrical-head screws, hexagonal-head screws or nuts. Assembly centre distances: 295 - 345 - 395 -495 - 595 - 695 mm

GN 333.3

Tubular handles with movable handle shanks

Movable handle shanks, technopolymer and aluminium



Tube in anodised aluminium, natural or black colour. Side mounts in die-cast zinc alloy, black colour. Back mounting with threaded blind holes. Assembly centre distance: 242 - 392 -492 - 592 mm

RH-VR

Tubular Handles

adjustable, technopolymer and stainless steel centre distance





Tube in AISI 304 stainless steel. Side mounts in technopolymer, black colour. Back mounting with threaded blind holes. Assembly centre distances: 200 - 250 - 300 -400 - 500 mm

GN 333

Offset tubular handles

Zinc alloy and aluminium



Aluminium tube, anodised, natural or with epoxy resin coating, black colour. Side mounts in die-cast zinc alloy with epoxy resin coating, black or grey colour.
Assembly centre distance: 180 - 200 - 300 -400 - 500 mm

GN 333.6

Adjustable shank

handles

Stainless steel





Tube in AISI 304 stainless steel. Side mounts in AISI CF-8 stainless steel. Back mounting with threaded blind holes. Assembly centre distances: 200 - 250 - 300 -400 - 500 - 600 mm

RH-W5

Adjustable shank handles

Aluminum



Anodised aluminium tube, natural colour. Side mounts in anodised extruded aluminium, black colour. Back mounting with threaded blind holes. Assembly centre distances: 200 -300 - 500 mm

RH-W1

Offset tubular

handles

Aluminum



Anodised aluminium tube, natural colour. Side mounts in aluminium. Rear mounting via threaded blind holes or front mounting, pass-through holes for screws, nuts and washers in stainless steel. Assembly centre distances: 200 - 300 - 500 mm

RH-W1-CLEAN

Offset tubular

handles Aluminum





Tube in extruded aluminium, epoxy resin coating. Side mounts in aluminium with epoxy resin coating. Back mounting with threaded blind holes. For application with medical and food equipment. Assembly centre distances: 200 - 300 - 500 mm

RH-WR

Offset tubular handles

Aluminum



Tube in anodised extruded aluminium, natural colour. Side mounts in anodised extruded aluminium, natural colour. Back mounting with threaded blind holes.

Assembly centre distances: 300 - 500 mm

RH-TL.WR

Offset tubular handles

stainless steel





Tube in AISI 304 stainless steel. Side mounts in anodised extruded aluminium, natural colour. Back mounting with threaded blind holes. Assembly centre distance: 200 -300 - 400 - 500 mm





4.5 Tubular handles continues

RH-A1 **Tubular Handles** Aluminum



Bar with oval cross section, anodised aluminium, natural colour. Side mounts in aluminium, slanted or straight options available. Back mounting with threaded blind holes. Suitable for use on a 19" rack and instruments in general. Assembly centre distances: 88 - 100 - 120 - 200 mm

RH-M3

Tubular handles Technopolymer and

aluminium



Bar in anodised aluminium, natural or black colour. Technopolymer handle shanks. Front mounting via pass-through holes for cylindrical-head screws, nuts and washers. Assembly centre distances: 200 - 300 - 400 mm

RH-M4 Double-curved

handles

Aluminum



Round-section bar in anodised aluminium, black or natural colour.

Back mounting with threaded blind holes. Assembly centre distances: 200 - 350 - 500 mm

RH-ER-33

Tubular and doublecurved handles

Stainless steel



Round-section tube in AISI 304 stainless steel, ground and brushed surfaces with excellent impact and scratch resistance. Double curved, angled or U-shaped. Rear mounting via threaded bosses for M10x30 cylindrical-head screws and washers in AISI 303 stainless steel. Assembly centre distances: 300 - 350 - 500 mm

RH-AR

Handles

Rectangular cross section, aluminium



Profile in anodised aluminium, natural colour. Side mounts in anodised aluminium, natural

Back mounting with threaded blind holes. Assembly centre distances: 300 - 500 mm

Tubular handles

Aluminum



Bar with oval cross section, anodised aluminium, natural colour. Side mounts in aluminium, slanted, folded or straight options available. Rear mounting via threaded holes for screws and washers in zinc-plated steel. Assembly centre distances: 200 - 300 - 500 mm

RH-KG

Double-curved handles

Aluminum



Round-section bar in anodised aluminium, black colour.

Back mounting with threaded blind holes. Assembly centre distances: 250 - 300 - 350 - 400 - 500 - 600 mm

RH-M4-CLEAN

Double-curved handles

Aluminum



Round-section bar in aluminium, epoxy resin coating. Back mounting with threaded blind holes. For application with medical and food equipment.

Assembly centre distances: 200 - 350 - 500 mm

RH-HS-30

Modular tubular





Tube in surface-ground aluminium. T-connections, fittings and terminals in aluminium, epoxy resin coating.

Front mounting via threaded holes for M12x80 screws. Curve angles: 45° - 90°
Tube lengths: 200 - 300 - 400 - 500 - 600 - 700 mm

RH-HV

Tubular handles

Rectangular cross section, aluminium



Tube in aluminium, black colour, semi-matte finish. Side mounts in aluminium, epoxy resin coating, black colour, semi-matte finish. Rear mounting via threaded blind holes or front mounting, pass-through holes for cylindrical-head M10x90 screws, nuts and washers in stainless steel. Assembly centre distances: 300 - 500 - 700 mm









































4.5 Tubular handles

continues

RH-MS **Tubular handles**

Rectangular cross section, aluminium



Anodised aluminium tube, natural colour. Side mounts in aluminium, epoxy resin coating. Front mounting via holes for head screws, nuts and washers.

Assembly centre distances: 200 - 250 - 300 -400 - 500 mm

GN 666.4

Aluminum

Bent tubular handles

GN 665 Arch-shaped handles

epoxy resin coating.

Zinc alloy and aluminium



Bar with oval cross section in aluminium, epoxy resin coating. Side mounts in zinc alloy.

Aluminium tube, anodised, natural or with

Back mounting with threaded blind holes.

Side mounts in aluminium, epoxy resin coating.

Assembly centre distances: 400 - 500 - 600 mm

Rear mounting via screws and washers. Assembly centre distances: 350 - 450 mm

GM.A

Bent tubular handles

Aluminium and stainless steel



Tube in AISI 304 stainless steel nut, thickness 1.5 mm. Side mounts in aluminium, epoxy resin coating, black colour.

Back mounting with threaded blind holes. Assembly centre distances: 500 - 600 mm

RH-GM.B

Bent tubular handles

Aluminium and stainless steel



AISI 304 stainless steel tube, ground surface. Side mounts in aluminium, epoxy resin coating. Back mounting with threaded blind holes. Assembly centre distance: 500 - 600 mm

RH-TL.GM

Bent tubular handles

Aluminium and stainless steel





AISI 304 stainless steel tube, ground surface. Side mounts in anodised aluminium, natural

Back mounting with threaded blind holes. Assembly centre distances: 500 - 600 mm

RH-BG

Bent handles

Aluminum



Bar with oval cross section in anodised aluminium, black or natural colour. Back mounting with threaded blind holes. Assembly centre distances: 350 - 400 - 450 -500 - 600 - 700 - 800 mm

RH-ER-30

Bent handles

Stainless steel





Tube in AISI 316L stainless steel. Rear mounting via AISI 316L stainless steel threaded bosses for M8x14 screws. Assembly centre distances: 450 - 600 - 800 mm

GN 481

Edge handles

Zinc alloy and aluminium



Aluminium with epoxy resin coating, black colour or anodised natural colour. Mounting with pass-through holes for countersunk head screws. Dimensions: 100 - 300 - 500 mm





4.6 Handles with electrical switch



Material

- Technopolymer (10)
- Stainless steel (1)
- · Aluminium (1)

Type of assembly

- · Blind hole (4)
- · Pass-through holes (5)

EBR-SWM - EBR-SWB

Handle with monostable or bistable electrical switch

Technopolymer





Normally open (NO) contact and a normally closed (NC) changeover contact or a bistable normally open contact (NO). One red LED and one green LED. 8-pin connector or cable, rear or side exit. Front mounting via pass-through holes for cylindrical-head screws.

Assembly centre distance: 132 mm

ESC-SFT

Handles with built-in safety switch

Technopolymer



One NC safety contact, one NO safety contact, one NC signalling contact with LED or two NC safety contacts, one NC signalling contact with LED. 8-pin M12 male connector or cable. Can be combined with accessories such as a safety control unit or an M12 connector cable. Dimension: 114 mm

FC-ESC

PA

Connector cable M12x1

For ESC-SET



Cable with grey PVC sheath. AISI 316 stainless steel nut. 8-pin M12x1 female connector with

RH-FG16.84

Tubular handles with electrical switches

Technopolymer

PA



Push button with integrated normally open (NO) contact or with the addition of an emergency stop button with two normally closed (NC) contacts. IP 65 protection class. Front or rear mounting via pass-through holes for cylindrical-head screws, hexagonal-head screws or nuts.

technopolymer housing and contact holder.

Assembly centre distance: 180 mm

RH-FG17

PA

Tubular handle with LED

Round section, technopolymer and aluminium



Side mounts in technopolymer and tube in anodised aluminium. 8-pole cable, length 5 metres. An LED ring (red/green/yellow/blue) is integrated into the handle which indicates the status of the machine. IP 65 protection class. Back mounting with threaded blind holes. Assembly centre distance: 300 mm

M.2000-SWM

Handles with monostable switch and LED indicator light Self-extinguishing technopolymer







Two slow action electrical contacts with double interruption in normally open (NO) or normally closed (NC) versions. LED strips in various colours. 8-pin connector or cable. IP 67 protection class. Rear mounting via brass bosses with threaded blind holes.

Assembly centre distance: 180 mm

CN-SFT

PA

Safety control unit for category 3 and 4

Technopolymer



Can be used in conjunction with the following products: ESC-SFT, CFSW, CFSQ, M.2000-SWM. The control unit is able to monitor the status of two contacts (safety Reed magnetic sensors, emergency buttons, mechanical safety switches). One NO contact plus one NC contact or two NC contacts. Dimension: 114 mm

RH-FG11

Tubular handles with built-in microswitch

Technopolymer





The device consists of one normally open (NO) contact plus one normally closed (NC) contact. Integrated red or green LED. 8-pin connector or cable, rear output. IP 65 protection class. Rear mounting using bosses with threaded blind holes. Fixing centre distance: 180 mm

RH-FG16.36

Tubular handles with electrical switches

Stainless steel





Push button with integrated normally open (NO) contact or with the addition of an emergency stop button with two normally closed (NC) contacts. IP 65 protection class. Front or rear mounting via pass-through holes for cylindrical-head screws, hexagonal-head screws or nuts. Assembly centre distance: 200 mm

RH-FG18-01 - RH-FG18-02 Tubular handle with

electrical switches

Technopolymer and aluminium



Change-over button with integrated green LED or with additional change-over push button with integrated red LED. IP 65 protection class. Rear mounting via nickel-plated steel bosses with threaded blind holes. Assembly centre distance: 140 mm





































4.7 Handles with pneumatic valve



Material

Type of assembly

· Blind hole (3)

Handle with pneumatic valve Technopolymer

EBR-PN





Allows direct control of a single-acting or a double-acting pneumatic actuator. Quick-release couplings for direct insertion of a tube (Ø4 mm) for pneumatics. Rear mounting via bosses with threaded blind holes. Assembly centre distance: 132 mm



RH-FG18-P3

Handles with 3/2

pneumatic valve

Technopolymer and aluminium



Allows direct control of a single-acting pneumatic actuator with one or two independent controls. Quick-release couplings for direct insertion of a tube (Ø4 mm) for pneumatics. Rear mounting via bosses with threaded blind holes. Assembly centre distance: 140 mm

- Technopolymer (3)
- · Aluminium (2)



pneumatic valve Technopolymer and aluminium





Allows direct control of one or two double-acting pneumatic actuators. Quick-release couplings for direct insertion of a tube (Ø4 mm) for pneumatics. Rear mounting via bosses with threaded blind holes. Assembly centre distance: 140 mm

4.8 Finger handles



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Finger handles

Technopolymer





Rear mounting via blind holes for fixing by means of No. 2 self-tapping screws $\varnothing 3.5$, not included in supply.
Assembly centre distances: 30 - 40 mm

MFH-CLEAN Finger handles

Technopolymer, easy cleaning





For application with medical and food equipment. Rear mounting via blind holes for fixing by means of No. 2 self-tapping screws Ø3.5, not included in supply. Assembly centre distances: 30 - 40 mm

Material

- Technopolymer (4)
- Steel (1)
- · Stainless steel (1)

Type of assembly

· Blind hole (5)

MFH-CR

Finger handles

Technopolymer

PA





The chrome plating makes the surface semi-polished, ensuring ease of cleaning. Rear mounting via blind holes for fixing by means of No. 2 self-tapping screws Ø3.5, not included in supply. Assembly centre distances: 30 - 40 mm

GN 224.1 - GN 224.5

Finger handles

Steel or stainless steel





Available in chrome-plated steel (GN 224.1) or AISI 304 stainless steel (GN 224.5). Back mounting with threaded blind holes. Assembly centre distances: 30 - 40 mm

RH-FM

Thimble-shaped handles

Technopolymer





Rear mounting via brass boss with threaded blind hole.

Dimensions: 26 - 30 mm









For use on rods or action levers, on handwheels and crank handles for rotating or maneuvering operations. The special care in the design and ergonomics enables a secure grip and offers maximum comfort to the operator's hand.

5.1 Knobs



Material

- Technopolymer (4)
- · Duroplast (2)
- Steel (1)
- · Stainless steel (6)

Type of assembly

- Blind hole (10)
- Threaded screw (5)

Knurled knobs

Technopolymer



Available in standard colours. Brass boss, threaded blind hole or zinc-plated steel threaded stud.

Diameters: 16 - 18 - 21 - 25 - 31 - 35 mm

EKK-SST-VD

Knurled knobs

Visually Detectable technopolymer







Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). AISI 304 stainless steel boss, threaded blind hole.

Diameters: 21 - 31 mm

GN 676.5

Knobs

Stainless steel





Plain or knurled rim, threaded blind hole. Diameters: 21 - 25 - 31 mm

GN 75.5

Knobs

Stainless steel





Threaded blind hole or threaded pin. Diameters: 16 - 20 - 25 - 32 - 36 mm

EKK-SST-SAN

Knurled knobs

Technopolymer with antimicrobial protection



AISI 304 stainless steel boss, threaded blind hole.

Diameters: 21 - 31 mm

EKK-SST-MD

Knurled knobs

Metal Detectable technopolymer







Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). AISI 304 stainless steel boss, threaded blind

Diameters: 21 - 31 mm

GN 75 Knobs

Steel



Threaded blind hole or threaded pin. Diameters: 16 - 20 - 25 - 32 - 36 mm

GN 75.6

Knobs Hygienic Design

AISI 316L stainless steel





Threaded blind hole or threaded pin, sandblasted matte or mirror polished finish. H-NBR or EPDM synthetic rubber packing ring, FDA compliant.

Diameters: 20 - 25 - 32 mm





































5.1 Knobs

continues





Threaded blind hole or threaded pin. Diameters: 35 - 45 mm

Mushroom knobs







Threaded blind hole. Diameters: 25 - 32 mm

5.2 T-Handles



L.652 **T-Handles**

PA

Technopolymer



Available in standard colours. Brass boss, plain or threaded blind hole or zinc-plated steel threaded stud. Dimensions: 40 - 55 - 67 - 80 - 94 mm

L.652-S





PA

Technopolymer clamping element, brass boss with threaded blind hole or zinc-plated steel threaded stud. In case of accidental shocks, the handle surns freely without affecting the clamping action. Adjustable handles with "push" mechanism. Dimensions: 67 - 80 mm

Material

- · Technopolymer (3)
- · Duroplast (1)
- Aluminium (1)

Type of assembly

- Blind hole (5)
- Threaded screw (3)
- Blind hole (5)
- · Threaded screw (3)

L.652-X

Adjustable T-Handles Technopolymer



PA

Technopolymer clamping element, brass boss with threaded blind hole or zinc-plated steel threaded stud. In case of accidental shocks. the handle turns freely without affecting the clamping action. Adjustable handles with "pull" mechanism. Dimensions: 67 - 80 mm

L.652M T-Handles





Available in natural aluminium or with epoxy resin coating, black colour. Plain or threaded blind hole. Dimensions: 55 - 67 - 80 mm

GN 5063

T-Handles

AISI 316 stainless steel



Available with a sandblasted matte or polished

Plain or threaded blind hole. Dimensions: 63 - 80 - 100 mm

L.152 T-Handles

Duroplast



PF

Black-oxide steel hub, plain or threaded blind

Dimensions: 70 - 80 - 95 mm

5.3 Fixed handles



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EBK.SOFT Mushroom lobe handles

Soft-touch technopolymer

SOFT



Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). Brass boss with threaded blind hole or zinc-plated steel threaded stud.

Diameters: 43 - 50 mm

EBK-C SOFT

Mushroom lobe handles

Soft-touch technopolymer





Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). Àvailable in standard colours. Brass boss with threaded blind hole or zinc-plated steel threaded stud. Diameters: 43 - 50 mm



5.3 Fixed handles continues



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Material

- Technopolymer (19)
- Duroplast (15)
- Steel (2)
- · Stainless steel (2)

Type of assembly

- Blind hole (34)
- · Threaded screw (7)

EBK-H SOFT

Mushroom lobe handles

with lens, Soft-touch technopolymer







Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011).
Transparent technopolymer lens and labels with marks and symbols. Brass boss, threaded hole.

Diameters: 43 - 50 mm

IEL.N-H SOFT Mushroom handles

with lens, Soft-touch technopolymer



PP

Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). Transparent technopolymer lens and labels with marks and symbols. Plain blind hole, press-fit assembly by means of the elastic coupling. Dimension: 65 mm

SH.N

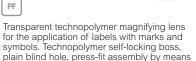
PF

Spherical knobs

with lens, Duroplast







of the elastic coupling.

Diameters: 35 - 40 - 45 mm

1.622

Fixed handles

Technopolymer



PA

Available in standard colours. Threaded blind hole. Dimensions: 25 - 30 - 40 - 55 mm

I.622 N-CLEAN

Tapered handles

Technopolymer, easy cleaning



White colour similar to RAL 9002. Plain blind hole. Dimension: 25 - 30 - 40 - 55 mm

IEL.N SOFT

Mushroom handles

Soft-touch technopolymer





Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). Plain blind hole, press-fit assembly by means of the elastic coupling.

Dimension: 47 - 65 mm

IH.N

Tapered handles

with lens, Soft-touch technopolymer



Transparent technopolymer lens and labels with marks and symbols.

Plain blind hole, press-fit assembly by means of the elastic coupling.

Dimension: 40 - 50 mm

Labels with marks and symbols

Self-adhesive aluminium







Self-adhesive vinyl film. Mounting with lens. Dimension: 20 - 25 mm

1.622 N

Tapered handles

Technopolymer



PA

Available in black or red colour. Plain blind hole.

Dimension: 25 - 30 - 40 - 55 mm

1.222

Tapered handles

Duroplast



Threaded blind hole or self-locking boss with plain blind hole.

. Dimension: 25 - 30 - 40 - 55 - 70 - 90 mm











































5.3 Fixed handles continues



PF



Threaded blind hole. Diameters: 37 - 47 mm

Spherical knobs Duroplast



PF Threaded blind hole; brass boss with threaded blind hole; slightly cone-shaped plain blind hole, press-fit assembly by means of the elastic

coupling. Diameters: 12 - 16 - 20 - 25 - 30 - 32 - 35 - 40 - 45 - 50 mm

PLM Spherical knobs Steel or stainless steel



Plain or threaded blind hole. Diameters: 16 - 20 - 25 - 32 - 40 - 50 mm

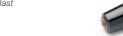
P.390 Tapered handles Duroplast



PF

Plain blind hole. Diameters: 25 - 35 - 40 mm

Tapered handles **Duroplast**





Brass boss, threaded blind hole. Diameters: 20 - 25 - 30 mm

EGH.SOFT Cylindrical lobe







PA

Plain blind hole, press-fit assembly by means of the elastic coupling. Dimension: 85 mm

1.137

PF

PF

Tapered handles

Duroplast



Threaded blind hole. Dimensions: 70 - 80 mm

1.142

Tapered handle

Duroplast



PF

Threaded blind hole. Dimensions: 60 mm

1.147

Tapered handles

Duroplast



Threaded blind hole. Dimensions: 40 - 50 - 60 - 75 mm

Tapered handles

Duroplast





Threaded blind hole. Dimensions: 65 - 85 mm







5.3 Fixed handles continues

Tapered handle Duroplast



Threaded blind hole. Dimensions: 60 mm

PF

1.618-SOFT

Shaped handle

Soft-touch technopolymer



PP

Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011).
Brass boss, threaded blind hole or plain blind hole, press-fit assembly using elastic coupling.

Dimension: 80 mm



PF



Threaded blind hole. Dimensions: 60 mm

1.680 SOFT

Cylindrical handles

Soft-touch technopolymer





Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). These handles improve the grip even in the presence of oils, greases and sweat from the hand. Threaded blind hole. Dimensions: 65 - 80 - 90 mm

I.168 SOFT

Knurled handle

Soft-touch technopolymer





Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). Brass boss, plain blind hole. Dimension: 60 mm

Cylindrical handles

Technopolymer



PA

Threaded blind hole. Dimensions: 65 - 80 - 90 mm



















I.780-N Cylindrical fixed

handles

Technopolymer



PA

Dimensions: 40 - 50 - 56 - 65 - 80 - 90 - 100 mm

1.780-SAN

Cylindrical handles

Technopolymer with antimicrobial protection





Threaded blind hole. Dimensions: 80 mm

1.780-VD

Cylindrical handle

Visually Detectable technopolymer





Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). Threaded blind hole. Dimensions: 80 mm

1.780-MD

Cylindrical handle

Metal Detectable technopolymer







Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). Threaded blind hole. Dimensions: 80 mm



5.3 Fixed handles continues

Shaped handles Duroplast





Threaded blind hole or threaded stud in zinc-plated steel. Dimensions: 75 - 95 - 110 mm

Cylindrical handles

with protection, technopolymer

PA



Brass boss with threaded blind hole or zinc-plated steel threaded stud. Dimension: 112 mm

PA

Cylindrical handles

with double protection, technopolymer



Brass boss with threaded blind hole or zinc-plated steel threaded stud. Dimension: 112 mm

I.167 p

Tapered handles

with protection, Duroplast

PF



Threaded stud in zinc-plated steel. Dimension: 103 mm

PF

Cylindrical handles

Duroplast



Threaded blind hole; zinc-plated steel threaded stud.

Dimensions: 28 - 40 - 50 - 65 - 80 - 90 - 102 -115 mm

1.580 N

Cylindrical handles

Technopolymer



PP

Blind hole for pressure mounting via elastic coupling.

Dimensions: 40 - 50 - 65 - 80 - 90 mm

DIN 39

Shaped handles

Steel or AISI 316L stainless steel



Threaded pin. Dimensions: 16 - 20 - 25 - 32 - 36 mm

5.4 Revolving handles



EBK+x

Spherical revolving

Technopolymer



Zinc-plated steel pin, hexagon socket at threaded end. Diameter: 50 mm

EBS+x

Spherical revolving handle

Technopolymer



Zinc-plated steel pin, hexagon socket at threaded end.

Diameters: 45 - 48 mm





5.4 Revolving handles continues



Material

- Technopolymer (12)
- Duroplast (7)
- Steel (2)
- · Stainless steel (8)
- · Aluminium (1)

Type of assembly

- Blind hole (1)
- · Pass-through hole (2)
- Threaded screw (22)

EBS+x SOFT

Spherical revolving handle

Soft-touch technopolymer





Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). Zinc-plated steel pin, hexagon socket at threaded end. It improves grip even in the presence of oils, greases and sweat from the hand. Diameters: 45 - 48 mm

PP

1.229+x

Revolving handle

Duroplast

PF



Zinc-plated steel threaded pin, two flat faces for fitting with 12 mm spanner. Dimension: 60 mm

P.111+x

IEL+x SOFT

technopolymer

PP

handles

Soft-touch

Mushroom revolving

Revolving ball knobs

anodised aluminium. Dimensions: 47 - 65 mm

Duroplast



Zinc-plated steel threaded pin, two flat faces for fitting with 12 mm spanner. Diameters: 37 - 47 mm

Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). Zinc-plated steel pin, hexagon socket at threaded end. With or without ring in opaque

GN 598

Revolving handles

Steel



Zinc-plated steel pin, hexagon socket at threaded end. Dimensions: 53 - 68 - 83 - 93 - 105 mm

GN 798

Revolving handles

Aluminum



Zinc-plated steel pin, hexagon socket at threaded end. Dimensions: 42 - 56 - 60 - 74 -84 mm

GN 798.1

Revolving handles

Stainless steel





AISI 303 stainless steel pin, hexagonal socket at threaded end.

Dimensions: 56 - 60 - 74 mm

GN 798.4

Revolving handles

Mounting on the operator's side, stainless steel





AISI 303 stainless steel pin. Dimensions: 56 - 60 - 74 mm

I.621+x

Revolving handles

Technopolymer







Zinc-plated steel or AISI 303 stainless steel pin, hexagon socket at threaded end. Dimensions: 35 - 45 - 60 - 65 - 73 - 80 - 90 -101 mm

Cylindrical revolving handles

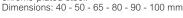
Duroplast







Smooth pass-through hole; pin in opaque chrome-plated steel; pin in AISI 304 stainless steel; pin and locking nut in opaque chrome-plated steel.















































5.4 Revolving handles continues

Cylindrical revolving handles

Duroplast and technopolymer

PF



Zinc-plated steel or AISI 303 stainless steel pin, hexagon socket at threaded end. Dimensions: 28 - 40 - 50 - 65 - 80 - 90 - 102 -116 mm

Cylindrical revolving handles

Duroplast





Black-oxide steel shoulder screw, cylindrical-head with hexagon socket. Dimensions: 40 - 50 - 65 - 80 mm

I.601+x

Cylindrical revolving handles

Technopolymer





Zinc-plated steel or AISI 303 stainless steel pin, hexagon socket at threaded end. Dimensions: 40 - 50 - 65 - 80 - 90 mm

1.780+x

Cylindrical revolving handles

Technopolymer



Zinc-plated steel or AISI 303 stainless steel pin, hexagon socket at threaded end. Dimensions: 40 - 50 - 55 - 65 - 80 - 90 - 100 mm

Revolving handle

Technopolymer





Zinc-plated steel pin, hexagon socket at threaded end. Dimensions: 65 mm

1.741+x

Revolving handles

Technopolymer





Zinc-plated steel pin, hexagon socket at threaded end.

Dimensions: 20 - 23 mm

I.644-SST-SAN

Tapered handles

Technopolymer with antimicrobial protection







Stainless steel pin, hexagonal head on threaded tip.

This handle prevents any deposit of bacteria, mildew and fungi, offering a sanitised effect on the surface.

Dimension: 90 mm

I.701+x

Revolving handles

Technopolymer





Zinc-plated steel pin, hexagon socket at threaded end.

Dimensions: 20 - 23 mm

1.731+x

Revolving handles

Technopolymer





Zinc-plated steel pin, hexagon socket at threaded end.

Dimensions: 20 - 23 mm

DIN 98

Shaped revolving handles

Steel



Zinc-plated steel pin, hexagon socket at threaded end.

Dimensions: 16 - 20 - 25 - 32 - 36 mm





5.4 Revolving handles continues

Tapered flanged handles

Duroplast

PF



Smooth pass-through hole with technopolymer guide bosses fixed at the ends. Dimensions: 120 mm

IGF Cylindrical revolving handles

technopolymer, resistant



Smooth pass-through hole for shafts. Dimensions: 127 mm



































with double protection,

to high temperatures



SI.134

Revolving handles

Fold-away handles

Duroplast

Duroplast





Smooth pass-through hole with technopolymer guide bosses fixed at the ends. Dimensions: 105 mm

Double-guide pin in black-oxide steel or

Dimensions: 56 - 65 - 80 - 90 mm

AISI 303 stainless steel, base support with guide stud in sintered steel or AISI 303 sintered

IR.407 Fold-away handles

Duroplast



Double-guide pin in black-oxide steel or AISI 303 stainless steel, flat base support in sintered steel or AISI 303 sintered stainless steel

Dimensions: 65 - 80 - 90 mm

5.5 Fold-away handles



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Material

- Technopolymer (6)
- · Duroplast (2)
- · Stainless steel (8)

Type of assembly

- Blind hole (8)
- · Blind hole (8)

Fold-away handles

Technopolymer

stainless steel.





Double-guide pin in black-oxide steel or AISI 303 stainless steel, flat base support in sintered steel or AISI 303 sintered stainless

Dimensions: 56 - 65 - 80 - 90 mm

IR.780

Fold-away handles

Technopolymer



Double-guide pin in black-oxide steel or AISI 303 stainless steel, flat base support in sintered steel or AISI 303 sintered stainless

Dimensions: 56 - 65 - 80 - 90 mm

IRS.820

Two volume safety fold-away handles

Technopolymer







Black-oxide or AISI 303 stainless steel pin, glass-fibre reinforced technopolymer flat base for embedded mounting. The special return mechanism "Fold-O-matic" automatically folds the handle into the retracted position. Dimensions: 65 - 80 - 90 mm

IR.620

Fold-away handles

Technopolymer





Double-guide pin in black-oxide steel or AISI 303 stainless steel, flat base support in sintered steel or AISI 303 sintered stainless

Dimensions: 45 - 60 - 65 - 73 - 80 - 90 mm



5.5 Fold-away handles continues

IRS.802

Two volume safety fold-away handles

Technopolymer

PP





Double-guide pin in black-oxide steel or AISI 303 stainless steel, flat base support in sintered steel or AISI 303 sintered stainless steel. The special return mechanism "Fold-O-matic" automatically folds the handle into the retracted position. Dimensions: 65 - 80 - 90 mm

Fold-away handles Technopolymer



Pin in black-oxide steel or AISI 303 stainless steel, flat base support in sintered steel or AISI 303 sintered stainless steel. Dimnesions: 60 - 65 - 80 - 90 mm

5.6 Gear lever handles



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BL.666

Gear lever handles

Zinc-plated steel and Duroplast





BL.666 BL.668 zinc-plated steel arm. Handles in Duroplast or technopolymer, black colour.

Dimensions: from 65 to 203 mm

BL.668

Gear lever handles

Zinc-plated steel and technopolymer





BL.666 BL.668 zinc-plated steel arm. Handles in Duroplast or technopolymer, black colour.

Dimensions: from 57 to 180 mm

Material

Steel

Type of assembly

· Threaded screw

BL.366

Gear lever handles

Chrome-plated steel and Duroplast





BL.366 BL.368 matte chrome-plated steel arm. Handles in Duroplast, black colour. Dimensions: from 65 to 203 mm

BL.368

Gear lever handles

Chrome-plated steel and **Duroplast**





BL.366 BL.368 matte chrome-plated steel arm. Handles in Duroplast, black colour. Dimensions: from 57 to 180 mm











For use on precision instruments or to perform adjustment operations. Available with or without flange, with indexes or graduations.

6.1 Control knobs



Material

- · Technopolymer (7)
- Duroplast (7)
- Steel (5)
- · Stainless steel (6)
- · Aluminium (11)

Type of assembly

- Plain hole (23)
- · Plain hole and keyway (5)

Control knurled knobs Technopolymer





Plain base, triangular index or precision graduation, laser-engraved. Anodised aluminium self-adhesive front plate. Plain blind hole, assembly by means of a stainless steel transversal grub screw. Diameters: 27 - 32 - 35 - 40 mm

GN 827

Adjusting screws

for GN 828 bearing blocks, stainless steel





GN 827 stainless steel adjusting screws are used for simple adjustment and positioning operations. Classification S: with standard scale 0...0.5, 10 graduations.

Laser-engraved graduated scale, black colour. Dimensions: 20 - 30 - 35 - 40 - 45 - 50 - 60 mm

GN 828

Bearing blocks

for adjusting screws GN 827, aluminium



Used for simple adjustment and positioning operations.

Available with threading, top-mounted; with scaling, top-mounted and front-mounted. Laser-engraved reference line, black colour. Dimensions: 35 - 40 - 45 mm

IZN.381

Control knurled knobs Technopolymer



PA

Technopolymer boss cap in standard colours; aluminium flange with triangular index or precision graduation. Black-oxide steel boss, H7 reamed hole. Assembly by means of keyway or transversal elastic pin or grub screw. Diameters: 32 - 42 - 48 - 52 - 63 mm

GN 727

Control knurled knobs with adjustable spindle,

aluminium



Base in chrome-plated steel; knob with knurled aluminium profile. Holes for assembly screws parallel or perpendicular to the spindle axis. Numbering with 10 or 15 marks on the chrome-plated base and 50 marks on the knob. Diameters: 27 - 34 mm

GN 827.1

Mounting Nuts

for adjusting screws GN 827, stainless steel



The nuts GN 827.1 are used in combination with adjusting screws GN 827 for positioning and fastening operations with a matching part. Diameters: 16 - 20 - 24 mm

GN 957

Control knurled knobs

for DD digital position indicators, aluminium



Knurled aluminium profile, black colour. Assembly by means of a supplied stainless steel transversal grub screw with hexagon

Diameters: 22 - 27 - 42 mm

MI.304

Control knurled knobs

With pointer, Duroplast





White line index.

H10 plain blind hole. Assembly by means of a transversal grub screw.

Diameters: 35 - 40 - 45 mm





































6.1 Control knobs continues

MI.304-CR

Control knurled knobs

With pointer, Duroplast chrome-plated





Chrome-plated Duroplast with polished finish, resistant to wear, rubbing and shocks. Black line index.

H10 plain blind hole. Assembly by means of a transversal grub screw. Diameters: 35 - 40 - 45 mm



White line index.

H10 plain blind hole. Assembly by means of a transversal grub screw.

Diameters: 35 - 40 - 45 mm

Control knurled knobs

With pointer, Duroplast



Control knurled knobs

With pointer, Duroplast chrome-plated

PF





Chrome-plated Duroplast with polished finish, resistant to wear, rubbing and shocks. Black line index

H10 plain blind hole. Assembly by means of a transversal grub screw. Diameters: 35 - 40 - 45 mm



Diamond-cut knobs with collar or flange,

technopolymer





Plain, triangular index or precision graduation, laser-engraved. Technopolymer closing cap in standard colours.

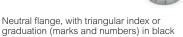
Brass boss, plain blind hole. Secured via a transversal grub screw. Diameters: 30 - 40 - 50 mm

F.N - F.K - F.GS

Flanges for graduations for IZN 381 control

knobs





Mounting via three self-tapping screws. Diameters: 32 - 36 - 40 - 45 - 50 - 56 - 63 mm

GN 723.3

Base flanges

for GN 723.4 control knobs, aluminium



Laser-engraved triangular index. H8 reamed hole; flange with or without NBR synthetic rubber friction ring. Diameters: 34 - 41 - 50 - 60 mm

GN 723.4

Control knurled knobs

Aluminum



Aluminium with neutral flange base, with triangular index or precision graduation, laser-engraved.

H8 reamed hole. Secured via a transversal

grub screw. Diameters: 27 - 34 - 42 mm

GN 726

Control knurled knobs

Aluminum



With or without neutral base, triangular index or with precision graduation; neutral surface or with index in black colour. H8 reamed hole.

Secured via a transversal grub screw. Diameters: 22 - 27 - 34 - 42 mm

Slotted control knobs

with graduations, stainless steel

GN 436.1





AISI 304 stainless steel, with white perimeter triangular index or with black precision graduation.

H8 reamed hole.

Secured via a transversal grub screw. Diameters: 24 - 28 mm

GN 436

Slotted control knobs

with position indicator, stainless steel





With or without plain base, triangular index or precision graduation.

H8 reamed hole.

Secured via a transversal grub screw, without head, with hexagon socket in stainless steel. Diameters: 24 - 28 mm





6.1 Control knobs continues

GN 726.1 Control knurled knobs with graduated flange, aluminium



Knurled aluminium profile, black colour, with neutral base, with white perimeter triangular index or with white precision graduation; H8 reamed hole. Secured via a transversal grub screw. Diameters: 22 - 27 - 34 - 42 mm

GN 164 Scale rings Steel



With or without NBR synthetic rubber friction Diameters: 30 - 40 - 50 - 60 mm

GN 268 Base flanges

for control mechanisms combined with GN 264 and GN 374, steel



H7 reamed hole, keyway according to DIN 6885/1 tolerance P9. Diameters: 24 - 32 - 50 - 68 mm

GN 736 Control handwheels

with revolving handle, aluminium



Knurled aluminium profile, black colour. Secured via a transversal grub screw. H8 reamed hole with and without keyway. Without handle or with revolving handle in technopolymer, Diameters: 52 - 62 mm

VL.140+I

Control handwheels

with revolving handle, Duroplast



Black-oxide steel hub, with pre-drilled blind

Revolving handle I.281+x Diameters: 80 - 100 - 130 mm

GN 726.2

Control knurled knobs with graduated flange, aluminium



Knurled aluminium profile, black colour; technopolymer flange with neutral surface, with triangular index or with precision graduation, laser-engraved. H8 reamed hole. Secured via a transversal grub screw. Diameters: 22 - 27 - 34 - 42 mm

GN 264 Graduated rings

for control mechanisms combined with GN 268 and GN 374, steel



H7 reamed hole. Natural or matte chrome-plated finish: with scale d1/100-RA-0-10-20...90/10, 100 marks. Diameters: 30 - 40 - 60 - 80 mm

GN 374 Flat springs

or control mechanisms GN 264 and GN 268



Steel

GN 736.1

Control handwheels

with revolving handle, aluminium



Knurled aluminium profile, black colour. H8 reamed hole with and without keyway. Without handle or with revolving handle in technopolymer,

Diameters: 52 - 62 mm

MBT+I

Diamond-cut knobs

with revolving handle, technopolymer



Cap in standard colours. Brass boss, plain blind hole, assembly by means of a transversal grub screw. Diameters: 40 - 50 - 60 - 70 - 85 - 100 mm









































6.1 Control knobs continues

EGK.SOFT Grip knobs

arranged for clicking operation, technopolymer







Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). Black-oxide or stainless steel boss, H7 reamed hole. Assembly by means of a keyway, a transversal pin or a set screw. Diameters: 50 - 63 mm

VC.192+IN

Lobe knobs

with pointer, Duroplast





Index in technopolymer. Brass or black-oxide steel boss, plain blind

Secured via transversal grub screws, without head, with hexagon socket.

Diameters: 40 - 50 - 60 - 70 - 85 mm

VH.153+IN Lobe knobs

with pointer, Duroplast





Index in technopolymer. Brass or black-oxide steel boss, plain blind

Secured via transversal grub screws. Diameters: 25 - 35 - 44 - 54 - 62 mm

GN 750

Control levers

Steel



Black-oxide steel centre body. Black-oxide steel arm, cylindrical handle in Duroplast.

H7 reamed pass-through hole. Cap with black or neutral position indicator dot. Dimensions: 84 - 106 - 130 mm

GN 215

Indexing levers

Steel



Base with smooth crown or toothed crown (30 teeth) and black-oxide steel operating arm with Duroplast handle. Black-oxide steel boss, H7 reamed hole and keyway.

Base is fixed to the machine body with two screws. Diameters: 54 - 60 mm

GN 729

Control knobs Aluminum



Aluminium, black colour, white line laser-engraved index. H8 reamed hole. Secured via a transversal grub screw. The two special flat faces provide a secure and comfortable grip. Diameters: 34 - 42 mm

VC.192+F

Lobe knobs

with flange, Duroplast



Flange with white line index in technopolymer. Brass or black-oxide steel boss, plain blind

Secured via transversal grub screws. Diameters: 32 - 40 - 50 - 60 - 70 mm

MI.204 Indicator knobs

Duroplast



PF

White line index. Brass boss, plain blind hole. Secured via a transversal grub screw. Diameters: 45 - 55 mm

Control levers

arranged for clicking operation, technopolymer



PA

Technopolymer centre body; arm in chrome-plated steel, cylindrical handle in Duroplast; self-adhesive front contrast screen in aluminium. Plain hole with flat face or black-oxide steel boss, H7 reamed hole. Dimensions: 81 - 108 - 127 - 170 mm

Control levers arranged for

clicking operation, technopolymer



Technopolymer boss cap in standard colours. Black-oxide or stainless steel boss, H7 reamed

Dimensions: 67 - 85 - 110 - 140 mm

6.2 Control levers



elesa.com

Material

- · Technopolymer (4)
- Steel (2)
- · Stainless steel (1)

Type of assembly

- Plain hole (4)
- · Plain hole and keyway (1)





6.2 Control levers continues

ELCR. Control lever arranged for clicking operation, technopolymer

Technopolymer, grey-black colour, matte finish. Technopolymer boss cap in standard colours. Black-oxide steel boss, H7 reamed hole. Dimensions: 118 mm

6.3 Adjustment elements with lock



elesa.com

Material

- Aluminum
- · Stainless steel
- Steel

Type of assembly

· Plain hole and keyway

GN 700 Locking and continuous control indexing mechanisms Aluminium and steel

ERGOSTYLE®



Control knob and nut in knurled aluminium. Base in black-oxide steel. Steel boss, H7 base in black-oxide steel, steel boss, fireamed hole and keyway; assembly to the spindle by means of keyway or transversal pin. Suitable for adjusting the shafts in both directions of rotation. Diameter: 66 mm

GN 200

Indexing mechanisms with stop and positioning device Steel or stainless steel





With or without lever arm. Boss, H7 reamed with of without lever affil. boss, in reamed hole and keyway; assembly to the spindle by means of keyway or transversal pin. The internal mechanism enables small rotational movements and the subsequent positioning of the machine parts. Diameters: 44 - 52 mm













































To provide in a numerical measurement the position reached in the regulation of a wide range of variables such as strokes, flows, capacities and for the setting of speed variators, with reading accuracy and reliability.

7.1 Gravity position indicators



elesa.com

Material

- · Technopolymer (4)
- Steel (1)

GA01 - GA02 - GA05 **Position indicators** gravity drive, steel



Zinc-plated steel case; AISI 303 stainless steel bezel; glass window; anodised natural aluminium dial; clockwise or anti-clockwise graduation.

Wide range of available ratios.

MBT-GA

Knobs with integral position indicator gravity drive, technopolymei



Technopolymer knob and bezel; transparent technopolymer window ultrasonically welded to the case (IP 67 protection class, according to EN 60529); anodised aluminium dial; clockwise or anti-clockwise graduation. Black-oxide steel boss, H7 reamed blind hole. Wide range of available ratios.

MBT-GW

Knobs with digitalanalogue position indicator gravity drive,

technopolymer



Technopolymer knob and bezel; transparent technopolymer window ultrasonically welded to the case (IP 67 protection class, according to EN 60529); anodised aluminium dial. Black-oxide steel boss, H7 reamed blind hole. Wide range of available readings.

7.2 Positive drive position indicators



elesa.com

PA01 - PA02 - PA05 **Position indicators** positive drive, steel



Zinc-plated steel case; AISI 303 stainless steel bezel; glass window; anodised natural aluminium dial; clockwise or anti-clockwise graduation. Wide range of available ratios.

GA11 - GA12 Position indicators

gravity drive, technopolymer



Technopolymer case and bezel; transparent technopolymer lens ultrasonically welded to the case (IP67 protection rating to EN 60529); anodised aluminium dial; clockwise or anti-clockwise graduation. Wide range of available ratios.

GW12 Digital-analogue position indicators gravity drive,





PA

Technopolymer case and bezel; transparent technopolymer lens ultrasonically welded to the case (IP67 protection rating to EN 60529); anodised aluminium dial. Five-digits roller counter. Wide range of available readings.

PA11 - PA12 **Position indicators**

positive drive, technopolymer





Technopolymer case and bezel; transparent technopolymer lens ultrasonically welded to the case (IP65 protection rating to EN 60529); anodised aluminium dial; clockwise or anti-clockwise graduation. Wide range of connectors available.



7.2 Positive drive position indicators

continues

Digital-analogue position indicators

positive drive, technopolymer



Technopolymer case and bezel; transparent technopolymer lens ultrasonically welded to the case (IP65 protection rating to EN 60529); anodised aluminium dial. Five-digits roller counter. Wide range of available ratios.

7.3 Mechanical position indicators



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Material

- · Technopolymer (3)
- · Stainless steel (3)

7.4 Electronic digital

position indicator

elesa.com

Technopolymer -Stainless steel (4)

Material Technopolymer (1)

DD50

Mechanical position indicators

direct drive, 3-digit counter, technopolymer







Technopolymer case and base support; transparent technopolymer window. Black-oxide steel or AISI 303 stainless steel boss with Ø 10 H7 reamed hole, fastened to the shaft by means of a grub screw. Orange, grey or anthracite colour. Wide range of available readings.

DD52R

Mechanical position indicators

direct drive, 5-digit counter, technopolymer







Technopolymer case and base support; transparent technopolymer window. Black-oxide steel or AISI 303 stainless steel boss with Ø 20 H7 reamed hole, fastened to the shaft by means of a grub screw. Orange, grey or anthracite colour. Wide range of available readings.

DD51-E

Electronic digital position indicator

direct drive 5-digit display, technopolymer







LCD display with values visualization in units of measure (mm, inches or degrees). Absolute or incremental mode. The visualization parameters can be set by the operator. Protection class IP65 or IP67 according to EN 60529. AISI 304 stainless steel boss with Ø 14 H7 reamed hole.

DD52R-E

Electronic digital position indicator direct drive, 6-digit

display, technopolymer





LCD display with values visualization in units of measure (mm, inches or degrees). Absolute or incremental mode. The visualization parameters can be set by the operator. Protection class IP65 or IP67 according to EN 60529. AISI 304 stainless steel boss with Ø 20 H7 reamed hole.

DD51

Mechanical position indicators

direct drive, 4-digit counter, technopolymer





Technopolymer case and base support; transparent technopolymer window. Black-oxide steel or AISI 303 stainless steel boss with Ø 14 H7 reamed hole, fastened to the shaft by means of a grub screw. Orange, grey or anthracite colour. Wide range of available readings.



























DD51-E-RF

Electronic digital position indicator

. Data transmission by radio frequency







LCD display with values visualization in units of measure (mm, inches or degrees). Absolute or incremental mode. The visualization parameters can be set by the operator. Protection class IP65 or IP67 according to EN 60529. AISI 304 stainless steel boss with Ø 14 H7 reamed hole.

DD52R-E-RF

Electronic digital position indicator Data transmission by

radio frequency











7.4 Electronic digital position indicator continues

UC-RF Control unit for DD52R-E-RF

PLC connection, data transmission via radio frequency



Control unit with Ethernet/IP serial interface. Profinet IO or Modbus TCP. UC-RF control unit can manage up to 36 position indicators DD52R-E-RF.

UC-RF antenna extensions

with SMA-RP connector



Shielded cable with PVC sheath, bend radius in fixed position ≥ 50 mm Male and female SMA-RP connectors.

7.5 Magnetic measuring systems



MPI-R10 Magnetic measuring system

Length and angle modes



Multifunction LCD with 4 function keys. Values displayed in millimetres, inches or angular degrees. Absolute / incremental mode. Storage and display of 32 target positions. Battery power. Extremely easy assembly, it allows precise alignment and positioning, reducing time and machining procedures to the minimum.

MPI-R10-RF

Magnetic measuring system

Length and angle modes, data transmission via radio freauency





Multifunction LCD with 4 function keys. Values displayed in millimetres, inches or angular degrees. Absolute / incremental mode. Battery power. Extremely easy assembly, it allows precise alignment and positioning, reducing time and machining procedures to the minimum.

FC-MPI

Magnetic sensor with cable for MPI-R10

For magnetic measuring system MPI-R10



Sensor in nickel-plated die-cast zinc alloy lever. Shielded cable with PVC sheath in black PVC, Ø 3.5 mm, bend radius in mobile position ≥ 34 mm. Connector (IP67 protection) in technopolymer.

MPI-15

Magnetic measuring system

Length and angle modes



Multifunction LCD with 5 function keys. Values displayed in millimetres, inches or angular degrees. Absolute / incremental mode. Battery power. Extremely easy assembly, it allows precise alignment and positioning, reducing time and machining procedures to the minimum.

M-BAND-10

Magnetic band for MPI-15 and FC-MPI

For magnetic measuring systems MPI-R10 and MPI-15



The M-BAND-10 magnetic band consists of two parts: the magnetic band and the backing strip. The magnetic band consists of a magnetic band, a backing strip and an adhesive strip. The protection strip consists of a protective strip and an adhesive strip.

7.6 Position indicator accessories



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MDX-50 Knob for position indicators

For DD50 indicators, technopolymer

PA



Technopolymer cover in RAL 2004 (C2) orange, RAL 7021 (C9) black, or RAL 7035 (C3) grey colour, matte finish, press-fit.

Available without graphic symbol, with arrow indicating clockwise increase or anti-clockwise

MDX-51

Knob for position indicators

For DD51 and DD51-E indicators, technopolymer





Technopolymer cover in RAL 2004 (C2) orange, RAL 7021 (C9) black, or RAL 7035 (C3) grey colour, matte finish, press-fit. Available without graphic symbol, with arrow

indicating clockwise increase or anti-clockwise increase.



7.6 Position indicator accessories

continues



Material

- · Technopolymer (6)
- Technopolymer -Stainless steel (1)
- Steel (3)
- · Stainless steel (3)
- · Die-cast zinc alloy (4)

MDX-52

Knob for position indicators

For DD52R, DD52R-E and DD52R-E-RF indicators, technopolymer





Technopolymer cover in RAL 2004 (C2) orange, RAL 7021 (C9) black, or RAL 7035 (C3) grey colour, matte finish, press-fit.

Available without graphic symbol, with arrow indicating clockwise increase or anti-clockwise increase.

Hole reduction sleeve

for DD50 position indicators, steel or stainless steel





Black-oxide steel or AISI 304 stainless steel.

RB51

Reduction boss

for DD51 position indicators, steel or stainless steel





Black-oxide steel or AISI 304 stainless steel.

Hole reduction sleeve

for DD52 position indicators, steel or stainless steel





Black-oxide steel or AISI 304 stainless steel.



























BSA-T50 Bases for spindle locking

for DD50 position indicators, SUPER-technopolymer





ERW adjustable handle, with lever body in SUPER-technopolymer, black colour, and AISI 304 stainless steel clamp. They allow the spindles to be locked easily and quickly after they have been positioned.

Spacer plate for DD51 position

indicators, technopolymer



Spacer plate supplied pre-drilled for Ø 2.2 self-locking screws.

BSA-N51

Bases for spindle locking

for DD51 position indicators, zinc alloy



Black-oxide steel or AISI 304 stainless steel. They allow the spindles to be locked easily and quickly after they have been positioned.

BS52R

Spacer plate

for DD52R position indicators, technopolymer



Spacer plate supplied pre-drilled for Ø 2.2 self-locking screws.

BSA-N52

Bases for spindle locking

for DD52R position indicators, zinc allov



GN 302.1 adjustable handle with lever body in die-cast zinc alloy, black colour and AISI 303 stainless steel clamping element. They allow the spindles to be locked easily and quickly after they have been positioned.

BSA51-E

Bases for spindle locking

for DD51-E and DD51-E-RF position indicators, zinc alloy



GN 302.1 adjustable handle with lever body in die-cast zinc alloy, black colour and AISI 303 stainless steel clamping element. They allow the spindles to be locked easily and quickly after they have been positioned.

7.6 Position indicator accessories continues

BSA52-E Bases for spindle locking for position indicators

DD52R-E and DD52R-E-RF, zinc alloy



GN 302.1 adjustable handle with lever body in die-cast zinc alloy, black colour and AISI 303 stainless steel clamping element.

They allow the spindles to be locked easily and quickly after they have been positioned.

7.7 Handwheels for position indicators

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Material

- · Technopolymer (9)
- Duroplast (3)
- · Stainless steel (2)
- Aluminium (1)

IZN-XX

PA

Knurled knobs

for position indicators, technopolymer



For indicators with gravitational reaction movement.

Black-oxide steel boss, H7 reamed hole, secured to the shaft using grub screws without head, hexagon socket, cup end. Diameters: 60 - 80 mm

VHT-XX

Handwheels

with lobes

for position indicators. technopolymer







Black-oxide steel or AISI 303 stainless steel boss, H7 reamed hole, secured to the shaft using grub screws without head, hexagon socket, cup end. Diameters: 85 - 110 mm

VC.792-XX Handwheels

movement.

MBT-XX

PA

technopolymer

Diamond-cut knobs

for position indicators,

with lobes

for position indicators technopolymer

hexagon socket, cup end.

Diameters: 60 - 80 mm



For indicators with gravitational or fixed reaction

Black-oxide steel boss, H7 reamed hole, secured

to the shaft using grub screws without head,

PA

For indicators with gravitational or fixed reaction

Black-oxide steel boss, H7 reamed hole, secured to the shaft using grub screws without head, hexagon socket, cup end. Diameters: 70 - 100 mm

Handwheels

for position indicators, technopolymer





For indicators with gravitational reaction

Boss, H7 reamed pass-through hole, in black-oxide steel or in AISI 303 stainless steel. With or without revolving or fold-away handle. Diameters: 125 - 160 - 200 mm

EWW-XX

Handwheel

for position indicators, technopolymer



ERGOSTYLE®

PP

For indicators with fixed reaction movement. Black-oxide steel hub, H7 reamed hole Designed for application on drive shafts of machines or equipment and in particular for guiding vehicles for moving equipment. Diameter: 240 mm

VDN-XX

Handwheels

for position indicators, . Duroplast



For indicators with gravitational reaction movement.

Black-oxide steel hub, not drilled. Diameters: 250 - 300 - 350 mm

VDC-XX

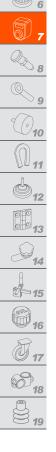
Handwheels for position indicators

Duroplast





Black-oxide steel hub, non-drilled, for indicators with gravitational reaction movement with or without handle. Hub with H7 reamed pass-through hole for indicators with fixed reaction movement with revolving handle. Diameters: 125 - 140 - 160 - 180 - 200 mm









7.7 Handwheels for position indicators

continues

VAD-XX Handwheels for position indicators

for position indicators, aluminium



For indicators with gravitational or fixed reaction movement.

Version with or without revolving handle. H7 reamed pass-through hole. Diameters: 80 - 100 - 120 - 160 - 200 mm

VR-XX Handwheels

PF

for position indicators, *Duroplast*



For indicators with gravitational reaction movement.

Black-oxide steel hub, not drilled. With or without revolving handle. Diameters: 160 - 200 - 250 - 300 - 375 mm

CP-XX Cover caps

for handwheels, techopolymer



Used as a lock for the indicator housing compartment when the indicator is not inserted in the handwheel for any reason. Press-fit assembly. The cover can be removed with a screwdriver using the cavity provided. Diameters: 50 - 69 mm

VRTP-XX

PP

Handwheels

for position indicators, technopolymer



For indicators with gravitational reaction movement.

Version with or without revolving handle. Boss in black-oxide steel, H7 reamed hole or hole with keyway. Diameters: 160 - 200 - 250 mm

SC-XX

Housing

for position indicator, technopolymer





Used for mounting gravitational indicators on any handwheel or other manoeuvring elements for adjustment. Available with two sets of pre-drilled holes in the bottom of the container or with two holes for M4x14 countersunk-head screws. Diameters: 76 - 122 mm









































Wireless electronic digital position indicators



■ Efficient machine set-up

- Using the UC-RF **control unit**, connected to the **machine's PLC** via one of the available buses, it is possible to remotely configure each parameter of each connected position indicator. These parameters include: target position, pitch, display orientation, rotation direction, resolution, etc.
- The current position and target position are displayed on the indicator's LCD display.
- The operator manually sets the position of the control shafts, following the indications shown on the **display**, such as the arrows indicating the direction of shaft rotation.
- The machine's PLC, via the UC-RF control unit, can easily **verify** that all drive shafts have been **correctly positioned** and that the **set-up** has been **completed**.

LED

Four LEDs located on the UC-RF control unit allow the operator to verify correct installation and data transmission.

■ Connection between Indicators and UC-RF Control Units

Each indicator is identified by a **unique number assigned by Elesa**. Once the connection with a control unit is established, communication will take place exclusively with that control unit, making it impossible to exchange data with other units present in the same work area. Each control unit can monitor **up to 36 indicators simultaneously**. In addition, the control unit checks and communicates the transmission quality to the PLC with various indicators.

Safety

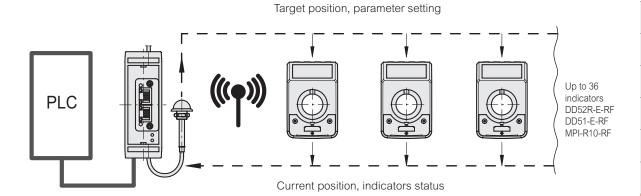
The system ensures **production quality** by stopping the machine until the set-up is perfect, thus **optimising** the production process.

System protection

Radio frequency communication between the UC-RF control unit and the indicators can also take place in environments where Wi-Fi, Bluetooth, cellular networks, etc. are present. Furthermore, since the indicators and the UC-RF communicate via an Elesa proprietary protocol, it is not possible to access the PLC via the UC-RF.



Wireless electronic digital position indicators

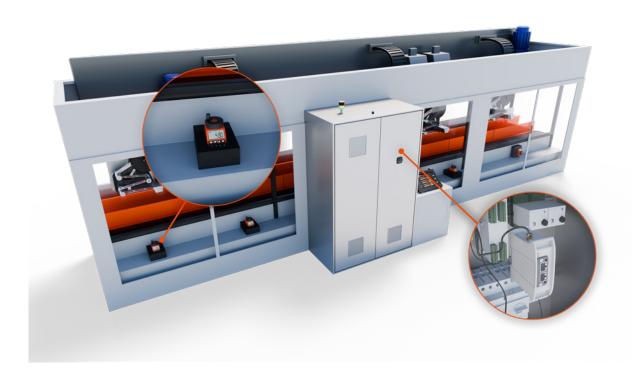


▼ Flashing display

When the indicator receives a new target position from the UC-RF, the display starts flashing, indicating that it is not in a correct position. The display shows the distance to the new target position and the direction to rotate the shaft. When the operator reaches zero, the display stops flashing to indicate that the new target position has been reached and displays the current position.

■ Battery check and replacement

The indicator continually sends battery status updates to the central unit, allowing for timely replacement if necessary. The indicator is able to maintain the position and the data acquired during the settings for the time necessary to change the battery.







































Elesa's standard components simplify repetitive positioning tasks on machinery and equipment. They are available in a range of high-quality materials, including black-oxide steel, zinc-plated steel, stainless steel, and SUPER-Technopolymer, with a wide selection of shapes, sizes, and configurations.

Standard components for manual or automated quick locking of moving parts.

Positioning elements

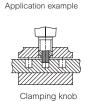
- Threaded body in steel, stainless steel, SUPER-Technopolymer.
- Bolts made from quality materials and with precise tolerances to offer high locking forces and secure locking.
- Also available in a version that allows the **bolt to be locked** in the retracted position.
- Operation via knobs, levers, rings, or rods in various materials and shapes.

How indexing plungers work

An indexing plunger creates a separable geometric coupling between a fixed component and a moving component. By operating the knob (pulling or pressing) the bolt allows the component to be locked or unlocked. By pulling the knob axially, the contrast exerted by the spring pressure is overcome and the bolt is raised to change the positioning.

The locking indexing plunger is particularly easy to unlock: once pulled out of the groove, the lever automatically slides along the spring-guided curve. The component then returns to the locked position.





Clamping knob unlocked, unlocked, plunger retracted plunger, adjusting still engaged plate free for a new positioning

Locking pins

Standard components with balls and detents for quick fastenings between components or parts being machined, particularly when they must be removed and frequently repositioned. By pressing the button, the balls or detents are released allowing the locking pin to be freely removed and repositioned.





▼Spring plungers

8.1 Indexing plungers

elesa.com

• Technopolymer (3)

· Stainless steel (32)

Die-cast zinc alloy (13)

Material

Steel (36)

Spring plungers can be used to fix moving parts in specific positions, even in the presence of vibrations. A wide range of spring plungers are available in numerous material combinations. They can be equipped with a normal or reinforced spring. The range includes movable balls to reduce wear, plastic bearings for electrical insulation or the application of a thread lock.





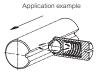
PMT.100

body

Indexing plungers

SUPER-technopolymer











































PMT.101

Indexing plungers Rest in retracted position,

SUPER-technopolymer body



PMT.110

body

Indexing plungers

SUPER-technopolymer





sectors. Plunger Ø: 5 - 6 - 8 - 10 mm



Black-oxide hardened steel or AISI 303 stainless steel plunger. Technopolymer knob, black or red colour. With or without locking nut. Resistant to continuous washing cycles, they are therefore indicated for applications such as the food or pharmaceutical



sectors. Plunger Ø: 5 - 6 - 8 - 10 mm

Visually Detectable



steel plunger. Technopolymer knob, black or red colour. With or without locking nut. Resistant to consectors. Plunger Ø: 5 - 6 - 8 - 10 mm

Indexing plungers

Black-oxide hardened steel or AISI 303 stainless

steel plunger. Technopolymer knob, black or red

colour. With or without locking nut. Resistant to con-

tinuous washing cycles, they are therefore indicated

for applications such as the food or pharmaceutical

SUPER-technopolymer body



Black-oxide hardened steel or AISI 303 stainless tinuous washing cycles, they are therefore indicated for applications such as the food or pharmaceutical

GN 617

Indexing plungers Black-oxide steel



Black-oxide steel plunger with hardened end. Black-oxide steel threaded body. Standard version: with or without technopolymer or AISI 303 stainless steel knob and locking nut. Plunger Ø: 5 - 6 - 8 - 10 mm

GN 617.1

Indexing plungers

rest in retracted position, steel



Black-oxide steel plunger with hardened end. Black-oxide steel threaded body. Technopolymer knob.

Standard executions: with or without locking Plunger Ø: 5 - 6 - 8 - 10 mm

GN 617-NI

Indexing plungers Stainless steel



Nickle-plated AISI 303 stainless steel plunger. AISI 303 stainless steel threaded body. Standard version: with or without technopolymer or AISI 303 stainless steel knob and locking nut.

Black-oxide hardened steel or AISI 303 stain-

less steel plunger. Technopolymer knob. With

or without locking nut. Resistant to continuous

cal sectors. Plunger Ø: 8 - 10 mm

washing cycles, they are therefore indicated for applications such as the food or pharmaceuti-

Plunger Ø: 5 - 6 - 8 - 10 mm

rest in retracted position,

stainless steel



Nickle-plated AISI 303 stainless steel plunger. AISI 303 stainless steel threaded body. Technopolymer or AISI 303 stainless steel knob. Standard executions: with or without locking



Indexing plungers



Plunger Ø: 5 - 6 - 8 - 10 mm



























8.1 Indexing plungers continues

GN 817 Indexing plungers Steel



Black-oxide steel plunger with hardened end. Black-oxide steel threaded body. With or without stop position. Standard version: with or without technopolymer knob and locking nut. Plunger Ø: 4 - 5 - 6 - 8 - 10 - 12 - 16 mm

GN 817.6

Stainless Steel **Indexing Plungers** with sensor for position monitoring



Nickle-plated AISI 303 stainless steel plunger. AISI 303 stainless steel threaded body. With or without stop position. Technopolymer knob. Plunger Ø: 4 - 5 - 6 - 8 - 10 - 12 - 16 mm

GN 8170

Stainless Steel **Indexing Plungers**

Hygienic Design, Knob side (front hygiene) / Knob and plunger side (full hygiene)



AISI 316 stainless steel plunger. AISI 316 stainless steel threaded body. With or without stop position. H-NBR synthetic rubber packing ring and gasket, FDA compliant. For use in environments that require high levels of hygiene. Plunger Ø: 6 - 8 mm

GN 817.9

Indexing plungers with flange

Zinc alloy and stainless steel



Die-cast zinc alloy base flange with two holes for fitting. Nickle-plated AISI 303 stainless steel plunger. With or without stop position. Technopolymer knob. Countersunk-head screw that can be assembled/disassembled several times, enabling machining to be carried out. Plunger \emptyset : 7 - 8 - 10 mm

GN 817.2-NI

Indexing plungers

with or without rest in retracted position, stainless steel



Nickle-plated AISI 303 stainless steel plunger. AISI 303 stainless steel threaded body. With or without locking nut. Technopolymer knob. Possibility of two different strokes for each plunger diameter.

Plunger Ø: 4 - 5 - 6 - 8 - 10 - 12 mm

GN 817-NI Indexing plungers

Stainless steel





Nickle-plated AISI 303 stainless steel plunger. AISI 303 stainless steel threaded body. With or without stop position. With or without technopolymer knob and locking nut.

Plunger Ø: 4 - 5 - 6 - 8 - 10 - 12 - 16 mm

GN 817.7

Indexing plungers

Pneumatically Operated, stainless steel







Single-acting or double-acting pneumatic actuator.

Hardened AISI 303 stainless steel plunger. AISI 303 stainless steel threaded body. With or without stop position. Plunger Ø: 6 - 8 - 10 - 12 mm

GN 817.1 Indexing plungers with flange

Zinc allov and stainless steel





Die-cast zinc alloy base flange with two holes

Nickle-plated AISI 303 stainless steel plunger. With or without stop position. Technopolymer knob.

Plunger Ø: 6 - 8 - 10 mm

GN 817.2

Indexing plungers

with or without rest in retracted position, steel



Black-oxide steel plunger with hardened end. Black-oxide steel threaded body. With or without locking nut. Technopolymer knob. Possibility of two different strokes for each plunger diameter.

Plunger Ø: 4 - 5 - 6 - 8 - 10 - 12 mm

GN 817.8

Indexing plungers

with or without rest in retracted position, steel or stainless steel





AISI 303 stainless steel plunger. Black-oxide steel or AISI 303 stainless steel threaded body. With or without stop position. Technopolymer knob. Screw that can be assembled/disassembled several times, enabling machining to be carried out. With or without locking nut. Plunger Ø: 7 - 8 - 10 - 12 mm





8.1 Indexing plungers continues

GN 818

Indexing plungers

with or without rest in retracted position. AISI 316 stainless steel





Nickel-plated AISI 316 stainless steel plunger. AISI 316 stainless steel threaded body. With or without stop position, with technopolymer or AISI 316 stainless steel knob, with or without locking nut. Resistance to highly corrosive environments. Plunger Ø: 4 - 5 - 6 - 8 - 10 - 12 mm

GN 817.5

Indexing plungers with flange

With or without rest in retracted position, steel



Black-oxide steel base flange with two holes for fitting.

Black-oxide steel plunger with hardened end. Technopolymer knob.
With or without stop position.

Plunger Ø: 6 - 8 - 10 mm

GN 817.4 Indexing plungers

with or without rest in retracted position, steel



Black-oxide steel plunger with hardened end. Black-oxide steel threaded body. Technopolymer handle. With or without locking nut. Plunger Ø: 6 - 8 - 10 - 12 mm

GN 613

Indexing plungers



Black-oxide steel plunger with hardened end. Black-oxide steel threaded body. Technopolymer knob. With or without locking nut. Plunger Ø: 5 - 6 - 8 - 10 mm

GN 313

Indexing plungers

Steel



Nickle-plated AISI 303 stainless steel plunger. Black-oxide steel threaded body. Technopolymer knob. With or without knob and locking nut, plunger with or without internal thread. Plunger Ø: 5 - 6 - 8 - 10 mm

GN 817.3

Indexing plungers with flange

With or without rest in retracted position, steel



Black-oxide steel base flange with two holes for fitting.

Black-oxide steel plunger with hardened end. Technopolymer knob.

With or without stop position. Plunger Ø: 6 - 8 - 10 mm

GN 722.5

Spring indexing plungers with ring . Steel



Zinc-plated stainless steel plunger and guide flange with two holes for fitting Plunger Ø: 8 - 10 - 12 - 14 - 16 - 20 mm

GN 817.4-NI Indexing plungers

with or without rest in retracted position, stainless steel



Nickle-plated AISI 303 stainless steel plunger. AISI 303 stainless steel threaded body. Technopolymer handle. With or without locking nut. Plunger Ø: 6 - 8 - 10 - 12 mm

GN 613-NI

Indexing plungers

Stainless steel





Nickle-plated AISI 303 stainless steel plunger. AISI 303 stainless steel threaded body. Technopolymer or AISI 303 stainless steel knob. With or without locking nut. Plunger Ø: 5 - 6 - 8 - 10 mm

GN 313-NI

Indexing plungers

Stainless steel





Nickle-plated AISI 303 stainless steel plunger. AISI 303 stainless steel threaded body. Technopolymer or AISI 303 stainless steel knob. With or without knob and locking nut, plunger with or without internal thread. Plunger Ø: 5 - 6 - 8 - 10 mm











































8.1 Indexing plungers continues

GN 416 Lever indexing plungers

with or without rest in retracted position, steel



Zinc-plated steel plunger. Die-cast zinc alloy body with slotted holes for fitting. Technopolymer lever. Die-cast zinc alloy base flange with slotted

holes for fitting. Plunger Ø: 6 - 8 - 10 - 12 mm



Lever indexing plungers

With or without rest in retracted position, steel or stainless steel



Plunger, lever and threaded body in polished zinc-plated steel or AISI 303 stainless steel. Zinc-plated steel or AISI 303 stainless steel threaded body.

With or without locking nut. Plunger Ø: 4 - 5 - 6 - 8 - 10 mm



×

Indexing plungers

with or without rest in retracted position, steel or stainless steel



AISI 303 stainless steel plunger. Zinc-plated steel or AISI 303 stainless steel threaded body. With or without locking nut. Plunger Ø: 5 - 6 - 8 - 10 mm

GN 414

Indexing plungers

with safety device, protruding plunger, steel



Black-oxide steel plunger with hardened or nickel-plated AISI 303 stainless steel end. Black-oxide steel or AISI 303 stainless steel threaded body. Technopolymer knob for the plunger. Protruding or retracted plunger, with or without locking nut. Plunger Ø: 6 - 8 - 10 mm

GN 414-NI

Indexing plungers

with safety device, protruding plunger, stainless steel



Black-oxide steel plunger with hardened or nickel-plated AISI 303 stainless steel end. Blackoxide steel or AISI 303 stainless steel threaded body. Technopolymer knob for the plunger. Protruding or retracted plunger, with or without locking nut. Plunger \varnothing : 6 - 8 - 10 mm

GN 414.1 Indexing plungers

with safety device, retracted plunger, steel



Plunger in hardened black-oxide steel. Technopolymer knob with red push button for the plunger lock/unlock.

Standard executions: with or without locking nut. Plunger Ø: 6 - 8 - 10 mm

GN 414.1-NI

Indexing plungers with safety device,

retracted plunger, stainless steel



AISI 303 stainless steel plunger. Technopolymer knob with red push button for the plunger lock/unlock.

Standard executions: with or without locking nut. Plunger Ø: 6 - 8 - 10 mm

GN 514

Indexing plungers with locking device

with locking device, steel



Nitrided steel plunger and threaded body. Nitrided steel threaded body. Technopolymer control button (PUSH-PUSH locking device). With or without locking nut.

Plunger Ø: 6 - 8 mm

GN 514-A4

Indexing plungers

with locking device, stainless steel



AISI 316 stainless steel plunger and threaded

Push button (PUSH-PUSH locking device) in technopolymer. With or without locking nut. Plunger Ø: 6 - 8 mm

GN 618

Indexing plungers

Steel



Black-oxide steel plunger with hardened end. Smooth body in black-oxide steel for welding. Technopolymer knob. With or without knob. Plunger Ø: 5 - 6 - 8 mm









8.1 Indexing plungers continues

GN 822

Mini indexing plungers

With or without rest in retracted position, steel or stainless steel



AISI 303 stainless steel plunger. Zinc-plated steel or AISI 303 stainless steel threaded body.

Indicated for mounting on thin sheet metal. Plunger Ø: 4 - 5- 6 - 7 mm

GN 822.6

Mini indexing plungers

with or without rest in retracted position, steel



AISI 303 stainless steel plunger. Zinc-plated steel threaded body. Technopolymer knob. Indicated for mounting on thin sheet metal. Plunger Ø: 4 - 5 - 6 - 7 - 8 - 10 mm

GN 822.8

Mini indexing plungers with flange

with or without rest in retracted position, steel



Die-cast zinc alloy base flange with two holes for

fitting. AISI 303 stainless steel plunger.

Technopolymer knob. Indicated for mounting on thin sheet metal. Plunger Ø: 4 - 5- 6 - 8 - 10 mm

GN 717

Indexing plungers

with or without rest in retracted position, steel



Nickle-plated AISI 316 stainless steel plunger. Technopolymer knob or AISI 301 stainless steel

With or without locking nut. Plunger Ø: 3 - 4 - 5 - 6 - 8 - 10 mm

GN 417

Indexing plungers

with or without rest in retracted position, steel



Die-cast zinc alloy base flange with slotted holes for fitting.

AISI 303 stainless steel plunger.

Technopolymer knob or AISI 301 stainless steel

Plunger Ø: 4 - 5- 6 - 8 - 10 mm

GN 822.1

plungers

With or without rest in retracted position, steel or stainless steel



AISI 303 stainless steel plunger.

Zinc-plated steel or AISI 303 stainless steel threaded body.

Indicated for mounting on thin sheet metal. Plunger \emptyset : 4 - 5- 6 - 7 mm

GN 822.7

Mini indexing plungers

with or without rest in retracted position, stainless steel



AISI 303 stainless steel plunger and threaded body.

AISI 303 stainless steel threaded body. Indicated for mounting on thin sheet metal. Plunger Ø: 4 - 5 - 6 - 7 - 8 - 10 mm

GN 822.9

Mini indexing plungers with flange

With or without rest in retracted position, stainless steel



AISI 304 stainless steel base flange with two holes for fitting.

AISI 303 stainless steel plunger.

Technopolymer or AISI CF-8 stainless steel knob. Indicated for mounting on thin sheet metal. Plunger Ø: 4 - 5- 6 - 8 - 10 mm

GN 717-NI

Indexing plungers

with or without rest in retracted position, stainless steel



AISI 303 stainless steel plunger and threaded body.

Technopolymer knob or AISI 301 stainless steel

With or without locking nut. Plunger Ø: 3 - 4 - 5 - 6 - 8 - 10 mm

GN 417-NI

Indexing plungers

with or without rest in retracted position, stainless steel





AISI CF-8 stainless steel base flange with slotted holes for fitting. AISI 303 stainless steel plunger.

Technopolymer knob or AISI 301 stainless steel

Plunger Ø: 4 - 5- 6 - 8 - 10 mm



Mini indexing













































8.1 Indexing plungers continues

GN 722.6

Spring indexing plungers with ring Steel





Zinc-plated steel base flange with slotted holes for fitting, coated in epoxy resin. Zinc-plated steel plunger. Zinc-plated steel ring. Plunger Ø: 8 - 10 - 12 - 14 - 16 - 20 mm

Indexing plungers

Steel



Black-oxide steel plunger with hardened end. Black-oxide steel threaded body. With or without locking nut. Indicated for mounting on thin sheet metal. Plunger \varnothing : 6 - 8 mm

GN 607-NI

Indexing plungers

Stainless steel





AISI 303 stainless steel plunger and threaded body. Technopolymer knob. With or without locking nut. Suitable for assembly on thin sheets thanks to their very small dimensions. Plunger Ø: 6 - 8 mm

GN 607.1 Indexing plungers

rest in retracted position, steel



Black-oxide steel plunger with hardened end. Black-oxide steel threaded body. Technopolymer knob.
With or without locking nut. Indicated for mounting on thin sheet metal. Plunger \varnothing : 6 - 8 mm

GN 607.1-NI Indexing plungers

rest in retracted position, stainless steel





AISI 303 stainless steel plunger and threaded body.

Technopolymer knob. With or without locking nut. Indicated for mounting on thin sheet metal. Plunger Ø: 6 - 8 mm

GN 607.2 Indexing plungers

Steel



Nickle-plated AISI 303 stainless steel plunger. Threaded body and adjusting bushing in zinc-plated steel. Technopolymer knob. Plunger Ø: 6 - 8 mm

GN 607.3

Indexing plungers

rest in retracted position, steel



Nickle-plated AISI 303 stainless steel plunger. Threaded body and adjusting bushing in zinc-plated steel. Technopolymer knob. Plunger Ø: 6 - 8 mm

GN 607.4

Indexing plungers

Fixing by means of welding, steel



Plunger in hardened steel. Black-oxide steel flanged body. Technopolymer knob. Plunger Ø: 6 - 8 mm

GN 607.5

Indexing plungers

Rest position, fixing by means of welding, steel



Plunger in hardened steel. Black-oxide steel flanged body. Technopolymer knob. Plunger Ø: 6 - 8 mm

GN 816

Indexing plungers with safety rest

position with safety device, steel



AISI 303 stainless steel plunger. Zinc-plated steel threaded body. Technopolymer knob. With or without locking nut and with or without

Plunger Ø: 6 - 8 - 10 mm





8.1 Indexing plungers continues

GN 816.1

Indexing plungers with safety device, steel



AISI 303 stainless steel plunger. Zinc-plated steel threaded body. Technopolymer knob. With or without locking nut and with or without key.

Plunger Ø: 6 - 8 mm

GN 7336.8

Indexing plungers with safety clamping knob

with safety clamping knob, steel



AISI 303 stainless steel plunger. Zinc-plated steel threaded body. Technopolymer knob. For simultaneous positioning, clamping and secure holding of elements. Plunger Ø: 6 - 8 mm

GN 608.1

zinc alloy

Indexing plungers with flange rest in retracted position,



Flange base with holes for fixing. Plunger in black-oxide steel. Technopolymer knob. Indicated for mounting on thin sheet metal. Plunger Ø: 6 - 8 mm

GN 608.6

Indexing plungers with flange

Rest position, zinc alloy and stainless steel



Flange base with holes for fixing. AISI 303 stainless steel plunger. Technopolymer knob. Indicated for mounting on thin sheet metal. Plunger Ø: 6 - 8 mm

GN 612.1

Mounting flange Steel



Mounting via pass-through holes for cylinder-head screws with hexagon socket coaxial to the plunger or perpendicular to the plunger. Threaded hole for the plunger: M12, M16 and M20.

GN 7336.7

Indexing plungers with clamping knob

with clamping knob, steel



AISI 303 stainless steel plunger. Zinc-plated steel threaded body. Technopolymer knob. For simultaneous positioning, clamping and secure holding of elements. Plunger Ø: 6 - 8 mm

GN 608

Indexing plungers with flange Zinc allov



Flange base with holes for fixing.
Plunger in black-oxide steel.
Technopolymer knob.
Indicated for mounting on thin sheet metal.
Plunger Ø: 6 - 8 mm

GN 608.5

Indexing plungers with flange

Zinc alloy and stainless steel



Flange base with holes for fixing. AISI 303 stainless steel plunger. Technopolymer knob. Indicated for mounting on thin sheet metal. Plunger Ø: 6 - 8 mm

GN 412 Mini indexing plungers

Zinc allov



Die-cast zinc alloy body. AISI 303 stainless steel plunger. Technopolymer knob. With or without stop position and with pass-through holes for front fixing or threaded holes for rear fixing. Plunger Ø: 5 - 6 - 8 - 10 mm

GN 412.1

Positioning flange

Zinc alloy





Mounting via pass-through holes for cylinder-head screws for front fixing or threaded holes for rear fixing. Threaded hole for the plunger: M8, M10, M12, M16 and M20.









































8.1 Indexing plungers continues

Positioning flange for GN 416, zinc alloy



Die-cast zinc alloy, epoxy resin coating, black colour, matte finish.

They are very useful accessories for optimal fixing of GN 416 indexing plungers. Plunger hole: Ø: 6 - 8 - 10 - 12 mm

Positioning flange Steel or stainless steel



Steel, epoxy resin coating or cast CF-8 stainless steel.

They are very useful accessories for optimal fixing of GN 417 indexing plungers. Plunger hole: Ø: 4 - 5 - 6 - 8 - 10 mm

GN 412.2

Positioning boss

for indexing plungers,



Hardened black-oxide steel. GN 412.2 bosses are generally used to optimise the positioning of indexing plungers. Threadings: M12x1.5, M16x1.5.

GN 412.4

Striker boss

for stainless steel indexing plungers





Hardened AISI 431 stainless steel. They are a standard accessory to be used to create, when necessary, a matching part to the indexing plungers. Threadings: M12x1.5, M16x1.5.

GN 412.3

Positioning boss

for indexing plungers, steel



Hardened black-oxide steel. GN 412.3 bosses are generally used to optimise the positioning of indexing plungers. Threadings: M12x1.5, M16x1.5.

GN 412.5

Striker boss

for stainless steel indexing plungers





Hardened AISI 431 stainless steel. They are a standard accessory to be used to create, when necessary, a matching part to the indexing plungers.

Threadings: M12x1.5, M16x1.5.

8.2 Lever indexing plungers



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Material

- Technopolymer (1)
- Steel (8)
- · Stainless steel (8)
- · Die-cast zinc alloy (5)

PMT.200

Lever indexing plungers Rest in retracted position,

SUPER-technopolymer body







Black-oxide hardened steel or AISI 303 stainless steel plunger. Self-lubricating technopolymer lever, black colour. With or without locking nut. Resistant to continuous washing cycles, they are therefore indicated for applications such as the food or pharmaceutical sectors. Plunger Ø: 4 - 5 - 6 - 8 - 10 mm

GN 612

Lever indexing plungers

rest in retracted position, steel



Black-oxide steel threaded body. Turned and nitrided steel plunger. Lever in black-oxide steel. With or without lever cover, with or without locking nut. Plunger Ø: 4 - 5 - 6 - 8 - 10 - 12 mm

GN 612-NI

Lever indexing

plungers

rest in retracted position, stainless steel



AISI 303 stainless steel threaded body. Turned and nitrided stainless steel plunger. AISI 316 stainless steel lever. With or without lever cover, with or without locking nut.

Plunger Ø: 5 - 6 - 8 - 10 - 12 mm

GN 721 - GN 721.1

Lever indexing plungers

With or without rest in retracted position, steel



Black-oxide steel threaded body. Turned and nitrided steel plunger. Lever in black-oxide steel. Clockwise or anti-clockwise lever rotation, with or without locking nut. Plunger Ø: 5 - 6 - 8 - 10 mm





8.2 Lever indexing plungers continues

GN 721.5 - GN 721.6

Lever indexing plungers

With or without rest in retracted position. stainless steel



AISI 303 stainless steel threaded body. AISI 303 stainless steel plunger. AISI 303 stainless steel lever. Clockwise or anti-clockwise lever rotation, with

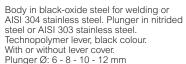
or without locking nut. Plunger Ø: 5 - 6 - 8 - 10 mm

GN 612.3

Lever indexing plungers

rest in retracted position, steel or stainless steel





GN 612.10

Lever indexing plungers

rest in retracted position,

zinc alloy



Die-cast zinc alloy body with holes for fitting. Zinc-plated steel plunger. Technopolymer lever, black colour. Plunger Ø: 6 - 8 - 10 - 12 mm

GN 722.1

Lever indexing

plungers

rest in retracted position, steel



Body in black-oxide steel or AISI 316 stainless steel for welding. Zinc-plated steel or AISI 316 stainless steel

plunger and lever. With or without mounted operating lever.

Plunger Ø: 8 - 10 - 12 - 14 - 16 - 20 mm

GN 722.3

Lever indexing plungers

rest in retracted position, steel or stainless steel





Zinc-plated steel or AISI 316 stainless steel body holes for fitting. Zinc-plated steel or AISI 316 stainless steel

plunger.

With lever in left or right retracted position. Plunger Ø: 8 - 10 - 12 - 14 - 16 - 20 mm

GN 612.2

Lever indexing plungers

rest in retracted position,



Black-oxide steel body with holes for fitting. Turned and nitrided steel plunger. Lever in black-oxide steel. With or without lever cover. Plunger Ø: 6 - 8 - 10 - 12 mm



Lever indexing plungers

rest in retracted position. zinc alloy



Die-cast zinc alloy body with holes for fitting. Zinc-plated steel plunger. Technopolymer lever, black colour. Plunger Ø: 6 - 8 - 10 - 12 mm

GN 612.8

Lever indexing plungers

zinc alloy



Threaded body in die-cast zinc alloy with surface protective treatment. Zinc-plated steel plunger. Technopolymer lever. With or without locking nut. Plunger Ø: 6 - 8 - 10 - 12 mm

GN 722.2

Lever indexing

plungers

rest in retracted position steel or stainless steel



Zinc-plated steel or AISI 316 stainless steel body holes for fitting. Zinc-plated steel or AISI 316 stainless steel plunger. With the lever perpendicular or parallel to the axis of the fixing holes.

Plunger Ø: 8 - 10 - 12 - 14 - 16 - 20 mm

GN 722.4

Spring indexing plungers with ring

Fixing by means of welding, steel



Black-oxide steel body Zinc-plated steel or AÍSI 316 stainless steel plunger and lever. With or without mounted operating ring.

Plunger Ø: 8 - 10 - 12 - 14 - 16 - 20 mm













































8.2 Lever indexing plungers continues

GN 712 Lever indexing

plungers

rest in retracted position,



Black-oxide steel threaded body. AISI 303 stainless steel plunger. Technopolymer lever, black colour. With or without safety stop position, with or without locking nut. Plunger Ø: 6 - 8 - 10 mm

GN 712.1 Lever indexing plungers

rest in retracted position,



Black-oxide steel threaded body. AISI 303 stainless steel plunger. Technopolymer lever, black colour. With or without safety stop position, with or without locking nut. Plunger Ø: 6 - 8 - 10 mm

8.3 Quick release pins



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GN 113.3

Ball Lock Pins Stainless steel







AISI 303 stainless steel pin and push button, AISI 420 stainless steel balls, stainless steel handle

By pressing the push button the two balls are freed and the pin can be pulled-out or inserted. Plunger Ø: 5 - 6 - 8 - 10 - 12 - 16 - 20 - 25 mm

GN 113.1 Lock pins

Stainless steel





AISI 303 stainless steel pin, technopolymer push button, AISI 420 stainless steel balls, technopolymer handle.

By pressing the push button the two balls are freed and the pin can be pulled-out or inserted. Plunger Ø: 6 - 8 - 10 - 12 mm

Material

- · Technopolymer (2)
- · Technopolymer Stainless steel
- Steel (3)
- · Stainless steel (26)
- Titanium (1)

GN 113.5

Ball Lock Pins

Stainless steel







AISI 303 stainless steel pin and push button, AISI 420 stainless steel balls, technopolymer

By pressing the push button the two balls are freed and the pin can be pulled-out or inserted. Plunger \emptyset : 5 - 6 - 8 - 10 - 12 - 16 mm

GN 113.6 **Ball Lock Pins**

Stainless steel





AISI 630 stainless steel pin and push button, AISI 420 stainless steel balls, stainless steel

By pressing the push button the two balls are freed and the pin can be pulled-out or inserted. Plunger Ø: 5 - 6 - 8 - 10 - 12 - 16 mm

GN 113.9

Ball Lock Pins

Stainless steel





AISI 303 stainless steel pin, AISI 420 stainless steel balls, AISI 316 stainless steel knob and push button.

By pressing the push button the two balls are freed and the pin can be pulled-out or inserted. Plunger Ø: 5 - 6 - 8 - 10 - 12 - 16 - 20 - 25 mm

GN 113.10

Ball Lock Pins

Stainless Steel AISI 630





AISI 630 stainless steel pin, AISI 420 stainless steel balls, AISI 316 stainless steel knob and push button.

By pressing the push button the two balls are freed and the pin can be pulled-out or inserted. Plunger Ø: 5 - 6 - 8 - 10 - 12 - 16 - 20 - 25 mm

GN 113.11

Ball Lock Pins

Stainless steel







AISI 303 stainless steel pin, AISI 420 stainless steel balls, technopolymer handle.

By pressing the push button the two balls are freed and the pin can be pulled-out or inserted. Plunger Ø: 5 - 6 - 8 - 10 - 12 - 16 - 20 - 25 mm

GN 113.12

Ball Lock Pins

Stainless Steel AISI 630





AISI 620 stainless steel pin, AISI 420 stainless steel balls, technopolymer handle. By pressing the push button the two balls are freed and the pin can be pulled-out or inserted. Plunger Ø: 5 - 6 - 8 - 10 - 12 - 16 - 20 - 25 mm





8.3 Quick release pins continues

Quick release pins

with lock, stainless steel





AISI 303 stainless steel pin, AISI 303 stainless steel pawl, technopolymer handle. With single or differentiated encryption key. Pressing the push button releases the pawl, allowing the locking pin to be engaged or disengaged. Plunger Ø: 8 - 10 - 12 - 16 - 20 mm

GN 113.8

Ball Lock Pins Stainless steel





Hardened AISI 630 stainless steel pin and push button. AISI 420 stainless steel balls. technopolymer handle.

By pressing the push button the two balls are freed and the pin can be pulled-out or inserted. Plunger Ø: 5 - 6 - 8 - 10 - 12 - 16 - 20 - 25 mm

GN 114.2 Lock pins Steel



Zinc-plated steel pin, AISI 304 stainless steel pawls, technopolymer knob.

By pressing the push button the two pawls are freed and the pin can be pulled-out or inserted. Plunger Ø: 6 - 8 - 10 - 12 - 16 - 20 mm

GN 114.6

Lock pins

Stainless steel





AISI 303 stainless steel pin, AISI 304 stainless steel pawls, AISI 303 stainless steel knob and push button.

By pressing the push button the two pawls are freed and the pin can be pulled-out or inserted. Plunger Ø: 6 - 8 - 10 - 12 - 16 - 20 mm

GN 124.3

Ball Lock Pins

Stainless steel





AISI 303 stainless steel pin, AISI 420 stainless steel balls, AISI 316LHC stainless steel washer. They are used for quick fastening between jigs or equipment. The pins can be inserted and removed quickly and easily from the positioning hole. Plunger Ø: 8 - 10 - 12 mm

Ball Lock Pins

Stainless steel





AISI 303 stainless steel pin and push button, AISI 420 stainless steel balls, technopolymer handle

By pressing the push button the two balls are freed and the pin can be pulled-out or inserted. Plunger Ø: 5 - 6 - 8 - 10 - 12 - 16 - 20 - 25 mm

GN 113.30 **Ball Lock Pins**

Titanium



L-handle, T-handle, or recessed grip. Titanium pin and push button, ceramic balls, technopolymer or titanium handle. By pressing the push button the two balls are freed and the pin can be pulled-out or inserted. Plunger Ø: 6 - 8 - 10 mm

GN 114.3 Lock pins

Stainless steel





AISI 303 stainless steel pin, AISI 304 stainless steel pawls, technopolymer knob.

By pressing the push button the two pawls are freed and the pin can be pulled-out or inserted. Plunger Ø: 6 - 8 - 10 - 12 - 16 - 20 mm

Ball Lock Pins

Stainless steel





AISI 303 stainless steel pin, AISI 420 stainless steel balls, technopolymer knob. By pressing the push button the two balls are

freed and the pin can be pulled-out or inserted. Plunger Ø: 6 - 8 - 10 - 12 mm

GN 124.1

Magnetic quick release pins

Stainless steel





AISI 303 stainless steel pin, magnet in neodymium, iron and boron, technopolymer knob with holes for coupling ring. They are used for quick fastening between parts made of magnetic material. Plunger Ø: 6 - 8 - 10 - 12 mm











































8.3 Quick release pins continues

GN 214.2 Lock pins

Steel



Zinc-plated steel pin, AISI 304 stainless steel pawls, AISI 301 stainless steel ring, technopolymer push button.

By pressing the push button the two pawls are freed and the pin can be pulled-out or inserted. Plunger Ø: 6 - 8 - 10 - 12 - 16 mm

GN 214.3 Lock pins

Stainless steel





AISI 304 stainless steel pin, AISI 304 stainless steel pawls, AISI 301 stainless steel ring, technopolymer push button.

By pressing the push button the two pawls are freed and the pin can be pulled-out or inserted. Plunger Ø: 6 - 8 - 10 - 12 - 16 mm

GN 214.6

Lock pins

Stainless steel







AISI 303 stainless steel pin, AISI 304 stainless steel pawls, AISI 301 stainless steel ring, AISI 303 stainless steel push button.

By pressing the push button the two pawls are freed and the pin can be pulled-out or inserted. Plunger Ø: 6 - 8 - 10 - 12 - 16 mm

CT-S

Ball chains

Technopolymer and stainless steel





Mainly used together with the different types of lock pins.

They are available in 3 different types allowing for use in different applications, with or without

The ball chain feature is flexibility.

GN 111

Ball chains

Brass and stainless steel





Mainly used together with the different types of

The ball chain feature is flexibility.

Retaining cables Polyethylene and

stainless steel



HMWPE

Mainly used in combination with the different types of lock pins.

They are available in 5 different types allowing for use in different applications, with or without ring and plate.

GN 111.2

Retaining cables

Stainless steel



Mainly used in combination with the different

types of lock pins. Transparent or black PVC cable covering.

They are available in 5 different types allowing for use in different applications, with or without ring and plate.

GN 111.8

Retaining cables

AISI 316 stainless steel





Mainly used in combination with the different types of lock pins.

Transparent PVC cable coating. They are available in 3 different types allowing for use in different applications, with or without ring and plate.

GN 111.4

Spiral retaining

Polyurethane and stainless steel



Mainly used together with the different types of

Stainless steel rings, tin-plated copper clamping plate, black polyurethane cable.

GN 111.6

Retaining rings

Stainless steel





They can be mounted by rotating on the groove specially made at the end of a shaft or handle. AISI 301 stainless steel.





8.3 Quick release pins continues

GN 2342

Assembly pins Stainless steel



AISI 304 stainless steel pin and countersunk-head screw with hexagon socket. Flat retaining washer with or without eye in AISI 304 stainless steel or AISI 316 stainless steel. Use with locking function, with spring cotter pins and fastening by means of countersunk-head screws to prevent loss and rotation.

Fixing plates

Stainless steel





With evelet or slot in AISI 316 stainless steel. 111 ball chains to prevent the loss of fastening

Used with GN 111.2 retaining cables or GN components. Also allows axial and radial fastening of pins and eye screws.

8.4 Spring plungers



Material

- · Technopolymer (4)
- Steel (15)
- · Stainless steel (19)
- · Aluminium (1)
- · Die-cast zinc alloy (1)
- Brass (1)

GN 513

Threaded spring elements

Steel



Zinc-plated steel threaded body. Black-oxide and case-hardened steel end. Round, prismatic end with plunger or internal

Standard or reinforced pressure spring. Threadings: M12x1.5 - M16x1.5 - M20x1.5

Ball spring plungers



GN 615



Black-oxide steel threaded body, screwdriver slotted head.

Hardened steel ball, standard or reinforced

pressure spring. Threadings: M3 - M4 - M5 - M6 - M8 - M10 -M12 - M16 - M20 - M24

GN 615-NI Ball spring plungers

Stainless steel





AISI 303 stainless steel threaded body, screwdriver slotted head. Hardened stainless steel ball, standard or reinforced pressure spring. Threadings: M3 - M4 - M5 - M6 - M8 - M10 -M12 - M16 - M20 - M24

GN 615.5

Ball spring plungers Stainless steel, ceramic



AISI 316 stainless steel threaded body, screwdriver slotted head. Ceramic ball, standard or reinforced pressure

Threadings: M4 - M5 - M6 - M8 - M10 - M12 -

GN 615.8

Ball spring plungers with friction block bearing

with friction block bearing. steel or stainless steel



Black-oxide steel or AISI 303 stainless steel threaded body.

Hardened steel or AISI 420C stainless steel ball, standard or reinforced pressure spring. Technopolymer friction block bearing. Threadings: M5 - M6 - M8 - M10 - M12 - M16

GN 715 Side thrust spring

Aluminium and steel



Aluminium body. Oscillating pin in technopolymer or hardened and zinc-plated steel. Spring with light, medium or reinforced load. Practical and versatile elements for positioning and mounting items to be processed. Pin Ø: 3 - 5 - 6 - 8 - 10 mm

GN 615.3

Ball spring plungers Steel



Black-oxide steel threaded body. Hardened steel ball, standard or reinforced pressure spring. Threadings: M3 - M4 - M5 - M6 - M8 - M10 -

M12 - M16 - M20 - M24

GN 615.9

Ball spring plungers with friction block bearing

with friction block bearing, steel or stainless steel





Black-oxide steel or AISI 303 stainless steel threaded body.

Hardened steel or AISI 420C stainless steel ball, standard or reinforced pressure spring. Technopolymer friction block bearing Threadings: M5 - M6 - M8 - M10 - M12 - M16



































8.4 Spring plungers continues

GN 615.3-NI Ball spring plungers

Stainless steel





AISI 303 stainless steel threaded body. Hardened stainless steel ball, standard or reinforced pressure spring. Threadings: M3 - M4 - M5 - M6 - M8 - M10 -M12 - M16 - M20 - M24

Ball spring plungers

Technopolymer







Threaded body in technopolymer. Technopolymer or hardened stainless steel ball. Threadings: M6 - M8 - M10

GN 615.4

Bolt spring plungers

Hexagon socket head, steel or stainless steel





Black-oxide steel or AISI 303 stainless steel threaded body.

Hardened steel or AISI 303 stainless steel plunger, standard or reinforced pressure spring. Threadings: M4 - M5 - M6 - M8 - M10 - M12 -M16 - M20 - M24

GN 614.2

Spring plungers

Smooth body, balls at both ends, brass



Smooth brass body, central knurling. Hardened stainless steel balls.

Diameters Ø: 2.5 - 3 - 4 - 5 - 6 - 7 - 8 mm

GN 614.3

Ball spring plungers

Smooth body, stainless steel





Smooth body in AISI 303 stainless steel. Ball in hardened AISI 420C stainless steel. Diameters Ø: 2 - 2.5 - 3 - 3.5 - 4 - 4.5 - 5 - 5.5 -6 - 8 - 10 - 12 mm

GN 614.7 Ball spring plungers

Press-Fit Type, Long Version, with Ball





Smooth body in AISI 305 stainless steel. AISI 420C stainless steel ball, standard pressure spring. Diameters Ø: 4 - 5 - 6 - 8 - 10 mm

GN 614.8

Ball spring plungers with friction block bearing

with friction block bearing, smooth body, steel or stainless steel





Smooth body in AISI 303 stainless steel. Ball in hardened AISI 420C stainless steel. Technopolymer friction block bearing. Diameters Ø: 4 - 5 - 6 - 8 - 10 - 12 mm

GN 614.4

Bolt spring plungers

Smooth body, stainless steel





Smooth body in stainless steel. Technopolymer or AISI 303 stainless steel plunger, standard pressure spring. Diameters Ø: 4 - 5 - 6 - 8 - 10 mm

GN 615.1

Bolt spring plungers



Black-oxide steel threaded body. Black-oxide steel or hardened steel plunger, standard or reinforced pressure spring.
Threadings: M4 - M5 - M6 - M8 - M10 - M12 -M16 - M20 - M24

GN 615.1-NI

Bolt spring plungers

Stainless steel





AISI 303 stainless steel threaded body. Nitrided AISI 303 stainless steel plunger, standard or reinforced pressure spring.
Threadings: M4 - M5 - M6 - M8 - M10 - M12 -M16 - M20 - M24





8.4 Spring plungers continues

GN 616 Bolt spring plungers Steel



Black-oxide steel threaded body. Hardened steel or technopolymer plunger, standard or reinforced pressure spring. Threadings: M3 - M4 - M5 - M6 - M8 - M10 -M12 - M16 - M20 - M24

GN 616.1

Bolt plungers with packing ring

with packing ring, steel or stainless steel



Black-oxide steel or AISI 303 stainless steel threaded body. Hardened steel or AISI 303 stainless steel plunger, standard or reinforced

pressure spring.
NBR synthetic rubber packing ring.
Threadings: M8 - M10 - M12 - M16

GN 614.6

Bolt spring plungers Smooth body, steel or

stainless steel



Black-oxide steel or AISI 303 stainless steel body and plunger.

Mainly used in the production of tools such as spring stops as well as for pressure and locking functions

Diameters Ø: 6 - 8 - 10 - 12 mm

GN 415 Side thrust pins



GN 616-NI

Bolt spring plungers

Stainless steel



AISI 303 stainless steel threaded body. Nitrided AISI 303 stainless steel or technopolymer plunger, standard pressure

Threadings: M4 - M5 - M6 - M8 - M10 - M12 - M16 - M20

GN 611

Bolt spring plungers Long stroke, steel or

stainless steel



Threaded body in black-oxide steel or AISI 303 stainless steel, partially covered with polyamide coating for instant locking of threads. Black-oxide steel or AISI 303 stainless steel plunger, standard or reinforced pressure spring. Used in the sheet metal working industry.
Threadings: M10 - M12 - M16 - M24

GN 615.7

Threaded ball spring plungers

with switch, steel



Threaded body in hardened and nickle-plated steel. Hardened steel ball. With normally closed or open contacts. Suitable for all cases in which it is necessary to lock or unlock a device by means of a limit switch. Threadings: M6 - M8 - M10

GN 614.1

Holders for smooth plungers

Zinc allov



Standard versions with two side fixing wings, one left or right fixing wing.

Designed to optimise the use of the GN 614 and

GN 614-NI smooth ball and spring plungers. Diameters \varnothing : 6 - 8 mm

GN 614

Ball spring plungers

Smooth body, technopolymer



Acetal resin based technopolymer body. Ball in hardened AISI 420C stainless steel or technopolymer.

Diameters Ø: 3 - 4 - 5 - 6 - 8 - 10 - 12 mm

GN 614-NI

Ball spring plungers

Smooth body, stainless steel





AISI 305 stainless steel body. Ball in hardened AISI 420C stainless steel. Diameters Ø: 3 - 4 - 5 - 6 - 8 - 10 - 12 mm











































8.4 Spring plungers continues

GN 614.5 Ball spring plungers Smooth body,

Smooth body, technopolymer



Acetal resin based technopolymer body. Acetal-based technopolymer or AISI 420C stainless steel ball. Diameters Ø: 4 - 5 - 6 - 8 - 10 mm

GN 815

Threaded plungers

Screwdriver slotted head, steel



Black-oxide steel, screwdriver slotted head. Hardened steel ball.

Threadings: M4 - M5 - M6 - M8 - M10 - M12

GN 815-NI

Threaded plungers

Screwdriver slotted head, stainless steel



AISI 303 stainless steel body, screwdriver slotted head.

Hardened stainless steel ball.

Threadings: M4 - M5 - M6 - M8 - M10 - M12

GN 815.1

Cylindrical-head threaded plungers

Hexagon socket head, steel or stainless steel



Body in black-oxide steel or AISI 303 stainless steel, head with hexagon socket. Ball in hardened steel or AISI 420C stainless

Threadings: M4 - M5 - M6 - M8 - M10 - M12

GN 249.1

Ball bushings

for spring plungers, steel



Ground and hardened steel. Use in combination with ball or bolt spring plungers when a high wear-resistant contact surface is required.

Diameters Ø: 4 - 6 - 8 - 10 - 12 - 16 - 20 mm

GN 715.2

Eccentric bushings

for spring plungers, steel



Used to facilitate correct positioning of the GN 715 side plungers.

The plunger can be precisely positioned to fit the tolerance of the workpiece.

GN 250

Indent blocks

Steel



Sintered case-hardened and black-oxide steel. Used with ball spring plungers GN 614, GN 615 and GN 615.2 for positioning or fixing sliding parts, flaps and similar applications.









A wide range of standard elements for applications on industrial equipment and machines. Quality materials and high precision in production offer high reliability.

9.1 Grub-screws, thrust pads, rings, washers



elesa.com

Material

- · Technopolymer (6)
- Steel (44)
- · Stainless steel (38)
- · Aluminium (1)

GN 709.7

Locking elements

flat-faced ball pad, steel



Grub screws are suitable for clamping workpieces.

The flat-faced (non-reversible) ball compensates for any misalignment of contact surfaces of up to 10°

Diameters: 10 - 13 mm

DIN 6332

Grub screws

Steel or stainless steel





Black-oxide steel, zinc-plated steel or AISI 304 stainless steel.

Hardened or unhardened pressure ends. Threadings: M6 - M8 - M10 - M12 - M16 - M20

GN 6311.1

Thrust pads

with elastic ring, steel or stainless steel





With or without technopolymer protection. Elastic ring: steel spring wire. They are used to transmit clamping forces with DIN 6332 grub screws, hexagon socket head. "Screw/thrust pad coupling by means of an elastic ring." Diameters: 16 - 20 - 25 - 32 mm

GN 6311.5

Thrust pads

with elastic ring, stainless steel





Available with AISI 304 stainless steel clamping surface; with elastomer non-slip coating; with technopolymer support disc.

They are used to transmit clamping forces with DIN 6332 grub screws.

Diameters: 50 - 60 mm

GN 709.8

Locking elements

flat-faced ball pad, steel



Grub screws are suitable for clamping workpieces.

The flat-faced (non-reversible) ball compensates for any misalignment of contact surfaces of up to 10°

Threadings: M12 - M16

DIN 6311

Thrust pads with elastic ring

with elastic ring, steel



The thrust pads are generally used to transmit clamping forces with DIN 6332 grub screws. They can be adapted on irregular or non-parallel surfaces and prevent the rotating movement of the screw from being exerted directly on the piece to he locked

Diameters: 12 - 16 - 20 - 25 - 32 - 40 mm

GN 6311.3

Thrust pads with elastic ring

with elastic ring, steel





Available with zinc-plated steel clamping surface; with elastomer non-slip coating; with technopolymer support disc. They are used to transmit clamping forces with DIN 6332 grub screws.

Diameters: 50 - 60 mm

GN 632.1

Grub screws

with ball end, steel





Hexagon socket head.

These grub screws can be used to realise different locking systems.

Levers, knobs or handles can be fitted to the threaded end by means of pins.

Threadings: M6 - M8 - M10 - M12



































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9.1 Grub-screws, thrust pads, rings, washers continues

GN 632.5

Grub screws

with ball end, stainless steel





ISO 7379 shoulder screws with collar maximum tightening torque must not be defined by the steel property class, since it is limited by the relatively small bearing points (shoulders) and by the recesses at the transition point from diameter d1 to d2 and d3.

Threadings: M3 - M4 - M6 - M8 - M10 - M12

ISO 7379

Shoulder screws with collar

Steel or stainless steel





Levers, knobs or handles can be secured to the threaded tip via a pin. Threadings: M6 - M8 - M10 - M12

GN 732

Shoulder screws with collar

Steel



The d2 and I1 sizes allow the optimal use of GN 732 shoulder screws with collar in combination with DIN 444 eye screws, GN 444.2 eye nuts and GN 919 hubs with eccentric cam.

Threadings: M6 - M8 - M10 - M12

GN 732.1

Shoulder screws with collar

Steel or s tainless steel AISI 303



The d2 and I1 sizes allow the optimal use of GN 732.1 shoulder screws with collar in combination with DIN 444 eye screws, GN 444.2 eye nuts and GN 919 hubs with eccentric cam.

Threadings: M6 - M8 - M10 - M12 - M14

GN 631

Thrust pads

Technopolymer







Indicated for transmission of clamping forces with GN 632.1 or GN 632.5 grub screws. They adapt easily to uneven or non-parallel surfaces and allow clamping without transmitting rotation to the surface to be clamped.

Diameters: 15 - 18 - 21 - 25 - 32 - 40 - 50 mm

GN 631.5

Thrust pads with elastic ring

with elastic ring. stainless steel





Indicated for transmission of clamping forces with GN 632.5 grub screws. They adapt easily to uneven or non-parallel surfaces and allow clamping without transmitting rotation or scratching the surface to be clamped. Diameters: 21 - 25 - 32 - 40 - 50 mm

GN 912.2

Retained screws

Stainless steel





Retained screws can be used where loss of screws must be avoided due to the cylindrical d3 part of the pin.

Diameters: 12 - 16 - 20 - 25 - 30 - 35 - 40 mm

GN 252 - GN 252.5

Blanking plugs

Steel or stainless steel





With application of a polyamide layer (blue) on the thread with locking action.

Threadings: M12 - M16 - M20 - M24 - M27 -M30 - M33

GN 355

Levelling elements

Steel or stainless steel





AISI 304 stainless steel cylindrical-head screw with hexagon socket and washer.

Threaded body in black-oxide steel, convex washer in hardened steel or AISI 303 stainless

Threadings: M12 - M18 - M24 - M30 - M36

GN 355.2

Levelling elements

with captive spherical washer, stainless steel





AISI 304 stainless steel cylinder head screw and washer.

Threaded body in black-oxide steel, convex washer in hardened steel or AISI 303 stainless

Threadings: M12 - M18 - M24





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9.1 Grub-screws, thrust pads, rings, washers continues

GN 355.1 Assembly tool

for levelling inserts GN 355, steel



They are used to adjust the GN 355 levelling elements, usually in combination with a socket wrench for tightening the cylinder head screw with hexagon socket.
Diameters: 12 - 18 - 24 - 30 - 36 mm

GN 360

Levelling inserts

Steel or stainless steel

Available with or without locking nut. They are used for levelling and to compensate for any slopes when setting up machines. Threadings: M10 - M12 - M16



GN 347 Ball joint thrust pads

Steel



They are mainly used to lock metal parts. Diameters: 17 - 21 - 24 - 30 - 36 - 44 mm



GN 338

сар Steel

Thrust pads

threaded hole, steel



These thrust pads are used to transmit clamping forces. They can be adapted on irregular or non-parallel surfaces and allow locking without transmitting the rotation to the surface to be locked.

With technopolymer or thermoplastic elastomer

protective cover. They can be used as feet on machinery, sliding bases on mechanical devices with particularly sensitive equipment or

more simply as screw covers. Diameters: 16 - 20 - 25 - 32 mm

Diameters: 16 - 20 - 24 - 30 mm

Disks with protection



GN 913.2 Grub screws



With spherical or pointed end.

They are generally used in cases where a point of contact is required.

The execution with sharp end (GN 913.2-B) can also be used as a positioner for a drill. Threadings: M5 - M6 - M8 - M10



Grub screws

brass or technopolymer ball pad, stainless steel





AISI 303 stainless steel, hexagon socket head. The brass or technopolymer pad of the grub screws avoids damaging the contact surface. Threadings: M4 - M5 - M6 - M8 - M10 - M12





































GN 913.3

pad, steel

Grub screws

brass or technopolymer

Black-oxide steel, hexagon socket head. The brass or technopolymer pad of the grub screws avoids damaging the contact surface. Threadings: M3 - M4 - M5 - M6 - M8 - M10 - M12

GN 605

Grub screws ball end, steel



Black-oxide steel, hexagon socket head. Ball where point contact is required or ball with reversible flat face for fixing non-parallel planes. Indicated for clamping workpieces.

Threadings: M4 - M5 - M6 - M8 - M10 - M12 -M16

GN 605-NI

Grub screws

ball end, stainless steel





AISI 304 stainless steel, hexagon socket head. Ball where point contact is required or ball with reversible flat face for fixing non-parallel planes. Indicated for clamping workpieces.

Threadings: M4 - M5 - M6 - M8 - M10 - M12 -



9.1 Grub-screws, thrust pads, rings, washers continues

GN 551.1 Threaded studs Steel



They can, for example, be screwed into the threaded bosses of clamping handwheels where it is necessary to transform the nut clamping into a screw clamping. Threadings: M6 - M8 - M10 - M12 - M16 - M20

Concave and convex washers

Steel



These washers are used mainly for locking mechanical parts on non-parallel surfaces. External diameters: 12 - 17 - 21 - 24 - 28 - 30 -36 - 44 - 56 - 68 - 78 - 92 mm

DIN 6319-NI - DIN 6319-A4

Concave and convex washers

Stainless steel





These washers are used mainly for locking mechanical parts on non-parallel surfaces. External diameters: 12 - 17 - 21 - 24 - 28 - 30 -36 - 44 - 56 mm

GN 7062.1

Semi-split clamps assembly

with threaded holes, stainless steel



With radial or axial threaded holes. They are fixed to the shaft by suitably tightening the screw

Diameters: 30 - 32 - 36 - 42 - 48 - 55 - 60 - 65 mm

GN 7062.2

Semi-split clamps assembly

with axial mounting holes, stainless steel



With 2 smooth or threaded axial pass-through holes or with 2 axial holes for cylinder head screws. They are fixed to the shaft by suitably tightening the screw.

Diameters: 30 - 32 - 36 - 42 - 48 - 55 - 60 - 65 mm

GN 7062.3

Semi-split clamps assembly

with damping washer, stainless steel



They are fixed to the shaft by suitably tightening the screw.

Diameters: 30 - 32 - 36 - 42 - 48 - 55 - 60 - 65 mm

GN 7062.30

Damping washers

for set collars, polyurethane



The damping washers are accessories for the various types of set collars.

Diameters: 30 - 32 - 36 - 42 - 48 - 55 - 60 - 65 mm

GN 7072.1

Dismountable split set collars

with threaded holes stainless steel



With radial or axial threaded holes. They are fixed to the shaft by suitably tightening the screw. They can be placed on the shaft without having to be threaded through the end. Diameters: 30 - 32 - 36 - 42 - 48 - 55 - 60 - 65 mm

GN 7072.3

Dismountable split set collars

with damping washer, stainless steel





They are mounted and fixed to the shaft by suitably tightening the screw. They can be placed on the shaft without having

to be threaded through the end.

Diameters: 30 - 32 - 36 - 42 - 48 - 55 - 60 - 65 mm

GN 7072.2 Dismountable split set collars

with axial mounting holes, stainless steel





With 2 smooth or threaded axial pass-through holes or with 2 axial holes for cylinder head screws. They are fixed to the shaft by suitably tightening the screw. They can be placed on the shaft without having to be threaded through the end.

Diameters: 30 - 32 - 36 - 42 - 48 - 55 - 60 - 65 mm





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9.1 Grub-screws, thrust pads, rings, washers continues

GN 7072.30

Damping washers

for dismountable split set collars, polyurethane



The damping washers are accessories for the various types of set collars. Diameters: 30 - 32 - 36 - 42 - 48 - 55 - 60 - 65 mm

GN 7062.10

Brackets for sensor holders

Stainless steel









































They are used to contain sensors.

Clamping elements for spindles

Aluminum

GN 826



With type GN 302 recessed handle or with simple threaded grub screw.

They are used for quick clamping of shafts controlled by knobs or handwheels. Diameters: 40 - 50 - 60 mm

CMC

Torque amplifier collar

Technopolymer



CMC torque amplifier collars double the clamping force applied at equal torque due to the presence of a bearing acting to reduce friction. Internal diameters: 8 - 10 - 12 mm



Washers with antifriction disc

with antifriction disc. steel or stainless steel





They are used to apply a higher axial force in clamping operations.

Diameters: 20 - 26 - 28 - 32 mm

GN 6343

Washers

Stainless steel





A typical application for washers is mounting them at the top of the shaft to retain a handwheel with an axial key. Internal diameters: 8 - 10 - 12 - 16 mm

GN 350.3

Levelling washers

single body, steel or stainless steel



These washers are used mainly for locking mechanical parts on non-parallel surfaces. The coupling of the spherical surfaces of the two washers allows a very high load resistance. Diameters: 25 - 32 - 45 - 58 - 70 - 80 - 105 mm

GN 183

C-shaped washers



GN 183 C-shaped washers are suitable for assembly on parts to be machined without unscrewing the nut from the screw. Diameters: 22 - 28 - 34 - 40 - 56 mm

GN 184

INOX STAINLESS

Washers for screws

for screws, steel



A typical application for washers is mounting them at the top of the shaft to retain a handwheel with an axial key. Diameters: 16 - 20 - 22 - 25 - 28 - 32 - 36 - 40 - 45 - 52 mm

GN 184.5

Washers for screws

for screws, stainless steel





A typical application for washers is mounting them at the top of the shaft to retain a handwheel with an axial key. Diameters: 16 - 20 - 22 - 25 - 28 - 32 - 36 - 40 - 45 - 52 mm

9.1 Grub-screws, thrust pads, rings, washers continues

Washers for screws

for screws, stainless steel



The washers hold the countersunk head of the screws, improving the aesthetic quality of the surfaces on which they are mounted. A plastic disc is supplied to avoid damaging the surfaces.

Diameters: 18 - 20 - 22 - 26 mm

Washers for heavy duty applications

for heavy duty applications, steel



They are designed for heavy-duty applications where a high clamping force must be achieved and maintained.

Diameters: from 12 to 68 mm

GN 6319.1

Levelling washers

single body, steel



These washers are used mainly for locking mechanical parts on non-parallel surfaces. The coupling of the two spherical surfaces of the washers allows a very high load resistance. Diameters: 13 - 17 - 21 - 25 - 32 - 40 mm

DIN 172

Guide bushings

Steel



d2 external diameter n6 tolerance assures a perfect clamping in the mounting holes in H7

Diameters: from 2 to 30 mm

GN 172.1

Guide bushings

Steel



GN 172.1 guide bushings have a tapered hole to optimise their use with GN 817.5 plungers. Diameters: 6 - 8 - 10 mm

DIN 179

Guide bushings

Steel



d2 external diameter n6 tolerance assures a perfect clamping in the mounting holes in H7

Diameters: from 0.6 to 42 mm

GN 179.1

Guide bushings



GN 179.1 guide bushings have a tapered hole to optimise their use with GN 817.5 plungers. Diameters: 6 - 8 - 10 mm

GN 609.5

Distance bushings

Stainless steel





They are generally used to compensate for the length of the body thread on indexing plungers, allowing them to be mounted on sheet metal of different thicknesses. Internal diameters: 8 - 10 - 12 - 16 - 18 - 20 mm

GN 6220

Spacer sleeves

Steel or stainless steel



With blind or pass-through threaded holes (shorter sizes) or with blind hole and threaded

pin.
They are commonly used as spacer rods and they allow parts to be fastened with an offset parallel to their mounting plane.

Threadings: M4 - M5 - M6 - M8 - M10

GN 6226

Hygienic Design Spacer sleeves

AISI 316L stainless steel







Execution with smooth or threaded pass-through hole, threaded on two sides. Blue H-NBR or EPDM synthetic rubber packing ring, FDA-compliant. For use in environments that require high levels of hygiene. Holes: M5 - M6 - M8 Ø: 5 - 6 - 8 mm







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9.1 Grub-screws, thrust pads, rings, washers continues

GN 6322

Workholding bolt with ball-type shoulder

Steel



GN 6322 elements are generally used for positioning and fixing of workpieces.
The spherical shape of the head (GN 6322-B) allows an optimal positioning in the holes facilitating their insertion. The flat design (GN 6322-C) helps to compensate for tolerances in the spacing of two holes. Diameters: 10 - 12 - 16 - 20 - 22 - 25 mm

GN 408.1

Positioning and supporting elements with threaded stud. steel



With smooth, turned or ground contact surface or with turned spherical contact surface. They are used for mounting and positioning of parts for machining. Threadings: M6 - M8 - M10 - M12 - M16

GN 709.15

Clamping pad with threaded stud,

stainless steel





Ball in AISI 420C stainless steel or nickel-plated steel with smooth or knurled flat face, non-reversible or with automatic return to position. They serve as movable supports or for clamping workpieces. Threadings: M6 - M8 - M10 - M12 - M16 - M20 - M24

GN 709.25

Clamping pad

with tapped blind hole, stainless steel





AISI 420C nickel-plated AISI 420C stainless steel ball with flat face, non-reversible or with automatic return to position.

They serve as movable supports or for clamping workpieces

Diameters: 12 - 18 - 28 mm

GN 709.35

Clamping pad

with adjustable threaded stud, stainless steel





AISI 420C nickel-plated AISI 420C stainless steel ball with flat face, non-reversible or with automatic return to position. They serve as movable supports or for clamping workpieces.
Threadings: M8 - M10 - M12 - M16 - M20 - M24

- M30x1.5

DIN 6321

Work-holding bolt



With conical cylinder or facetted head. Diameters: 6 - 8 - 10 - 12 - 16 - 20 - 25 mm



GN 709.1

Clamping pad

with threaded stud, steel





Ball in hardened or nickel-plated steel with smooth or knurled flat face, non-reversible or with automatic return to position. They serve as movable supports or for clamping workpieces. Threadings: M6 - M8 - M10 - M12 - M16 - M20 - M24

GN 709.2

Clamping pad

with tapped blind hole, steel





Ball in hardened steel with smooth or knurled flat face, non-reversible or with automatic return to

They serve as movable supports or for clamping workpieces. Diameters: 12 - 18 - 28 mm

GN 709.3

Clamping pad

with adjustable threaded stud, steel



Ball in hardened steel with smooth or knurled flat face, non-reversible or with automatic return to position. They serve as movable supports or for

clamping workpieces. Threadings: M8 - M10 - M12 - M16 - M20 - M24 - M30x1.5

DIN 580 Lifting eyebolts

Stainless steel



Threadings: M8 - M10 - M12 - M16 - M20 - M24









































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9.1 Grub-screws, thrust pads, rings, washers continues

GN 1130 Lifting lock pins

Steel or stainless steel





Stainless steel balls and spring. Diameters: 8 - 10 - 12 - 16 - 20 mm

Lifting lock pins

Steel or stainless steel





Steel or stainless steel threaded pin, stainless steel spring. For quick and easy use. Pressing the operating button releases the threaded segments, allowing the pin to be inserted or removed from the mounting thread. This eliminates the time-consuming screwing and unscrewing process required with typical lifting devices, such as lifting eyebolts. Threadings: M8 - M10 - M12 - M16 - M20

GN 1135

Lifting lock pins

Steel or stainless steel







Steel or stainless steel threaded pin, stainless steel spring. For quick and easy use. Pressing the operating button releases the threaded segments, allowing the pin to be inserted or removed from the mounting thread. This eliminates the time-consuming screwing and unscrewing process required with typical lifting devices, such as lifting eyebolts. Threadings: M8 - M10 - M12 - M16 - M20

GN 1132

Fastening bushings

for GN 1130 lifting lock pins, stainless steel





They are used with GN 1130 lifting pins. Threadings: M16x1.5 - M16 - M20x1.5 - M20 -M24x1.5 - M24 - M30x2 - M36x2

Rod ends

Technopolymer





They are particularly suitable for use in rotary, oscillatory and linear movements as well as in particularly aggressive environments, in the presence of water or moisture, fine dust or dirt. Diameters: 6 - 8 - 10 - 12 - 14 mm

FJT. **Forks**

Technopolymer





Body with threaded hole, clip pin or technopolymer seeger ring. Particularly suitable for various drives, e.g. of pneumatic cylinders, even in the presence of water or moisture. Threadings: M6 - M8 - M10 - M10X1.25 - M12 - M12X1.25 - M14

GN 1024

Spring cotter pins

Steel or stainless steel





They are mainly used for axial fastening of bolts

Diameters: 1.5 - 2 - 3 - 4 - 5 - 6 - 7 mm

DIN 444

Eye screws

Steel



They are mainly used for attaching moulds, equipment, etc. Threadings: M5 - M6 - M8 - M10 - M12 - M16 -

M20

DIN 444-NI

Eve screws

Stainless steel





They are mainly used for attaching moulds, equipment, etc.

Threadings: M5 - M6 - M8 - M10 - M12 - M16 -

GN 444.2

Eye nuts

Steel



They can be used in combination with threaded studs of different lengths.

They are mainly used for moulds, jigs, equipment,

Diameters: 8 - 10 - 12 - 16 mm





9.2 Set collars



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Material

- · Technopolymer (1)
- Steel (4)
- · Stainless steel (5)
- · Aluminium (4)

ANPS

PA

Dismountable split set collars

Clamping assembly, technopolymer





Cylindrical head screws with hexagon socket and AISI 316 stainless steel nuts. Suitable for assembly on idle shafts as end stops, for fixing end limit switches, pulleys, supporting pins or other components. Internal diameters: from 12 to 70 mm

GN 705 Semi-split clamps assembly screw assembly, steel



Black-oxide steel or zinc-plated steel material. Fastening by means of screw without screwdriver head or with hexagon socket. Internal diameters: from 5 to 80 mm



GN 706.2

GN 706.3

Semi-split set collars

for threaded shafts, steel or stainless steel

Semi-split set collars clamping assembly,







Black-oxide steel, natural aluminium or AISI 316 LHC stainless steel. Press-fit by means of steel screw, cylindrical head.

They can be used not only as a shoulder stop, but also to fix other components. Internal diameters: from 6 to 40 mm

Black-oxide steel or AISI 316 LHC stainless steel.

Press-fit by means of steel screw, cylindrical head.

They can be used not only as a shoulder stop, but also to fix other components. Threadings: M8 - M10 - M12 - M16 - M20 - M8x1 - M10x1 - M12x1.5 - M16x1.5 - M20x1.5 - M24x1.5 - M30x1.5

Black-oxide steel or AISI 316 LHC stainless

steel. Press-fit by means of steel screw, cylindrical head. They can be used not only as a shoulder stop, but also to fix other

Internal diameters: from 6 to 40 mm

























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GN 505

GN 704

assembly

Semi-split clamps

quick release, aluminium

T-Nuts quick-insert, steel

components.



With through thread or slightly bent. They are particularly suitable for use on aluminium profiles, where rapid insertion is required.

Threadings: M4 - M5 - M6 - M8

GN 705-NI

Semi-split clamps assembly

screw assembly, stainless steel



AISI 303 stainless steel material. Assembly by means of stainless steel grub screw, with hexagon socket. Internal diameters: from 5 to 50 mm

GN 311

Clamping kit for set collars

Zinc allov and stainless steel



Zinc alloy lever body, clamping element, retaining screw in AISI 301 stainless steel Used as an alternative to the fixing screws supplied in the different types of GN 706 and GN 707 set collars and semi-split set collars. Threadings: M4 - M5 - M6

GN 707.2

Dismountable split set collars

clamping assembly, steel, stainless steel or aluminium



Black-oxide steel or AISI 316 LHC stainless steel. Press-fit by means of steel screw, cylindrical head. They can be used not only as a shoulder stop, but also to fix other components.

Internal diameters: from 6 to 40 mm

9.3 T-Nuts



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DIN 508

T-Nuts

Steel or stainless steel





Groove width DIN 650: 5 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 28 mm























9.3 T-Nuts

continues



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Material

- Steel (11)
- · Stainless steel (4)

GN 505.4

T-Nuts

quick-insert, steel





They are particularly suitable for use on aluminium profiles, where rapid insertion is required.

Threadings: M4 - M5 - M6 - M8

GN 505.5

T-Nuts

quick-insert, stainless steel







They are particularly suitable for use on aluminium profiles, where rapid insertion is required.

Threadings: M4 - M5 - M6 - M8

GN 506.1

T-Nuts

no-slip device, steel or stainless steel







Zinc-plated steel or AISI 303 stainless steel, stainless steel ball and spring.

They are particularly suitable for use on sliding guides. Groove width: 5 - 6 - 8 mm

GN 506

T-Nuts

with guide and no-slip device, steel





Zinc-plated steel, stainless steel ball and spring. The device provided with a ball and spring, located inside the dowel, allows it to slide in aluminium sections avoiding accidental vertical slipping. Groove width: 5 - 6 - 8 mm

GN 507

T-Nuts

Steel







Groove width: 8 - 10 mm

GN 506.2

T-Nuts

with guide and no-slip device, steel





They are particularly suitable for use on aluminium profiles.

The elastic plate, placed inside the nut, allows it to slide whilst preventing accidental vertical sliding.

Groove width: 8 - 10 mm

GN 965

×

Kit for the assembly of various components

for profiles of 30 and 40 mm, steel



With cylinder-head screw or flat countersunkhead screw. With flat pan head screw or low cylinder-head screw. They allow the attachment of a wide variety of elements with 30 and 40 mm aluminium profiles. Threadings: M4 - M5 - M6

GN 968

Kit for the assembly of various components

for profiles of 30 - 40 - 45 mm, steel





With cylinder-head screw or flat countersunkhead screw. With flat pan head screw or low cylinder-head screw. They allow the attachment of a wide variety of elements with 30, 40 and 45 mm aluminium profiles. Threadings: M4 - M5 - M6

GN 508.1 T-Nuts

Steel



They can be inserted vertically into T-slots. Groove width: 8 - 10 -12 - 14 - 16 - 18 - 22 mm

GN 508.2

T-Nuts

Steel



They are identical in size to DIN 508. The ball and spring device, placed inside the nut, allows it to slide whilst preventing accidental vertical sliding.

Groove width: 8 - 10 -12 - 14 - 16 - 18 - 22 mm





9.3 T-Nuts

continues

GN 933.5

Grub screws

brass or technopolymer ball pad, stainless steel





Pad in brass, technopolymer or with ball end. The brass or technopolymer pad avoids damaging the contact surface. Threadings: M6 - M8 - M10

9.4 Locking elements



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Material

- · Technopolymer (1)
- Steel (6)
- Stainless steel (7)

GN 919

Hubs with eccentric

cam Steel



They are generally used for tightening or adjusting manoeuvres.

The clamping force keeps steady and the cam locks automatically in any position along its rotation

Diameters: 24 - 30 - 35

GN 918.5 - GN 918.6 - GN 918.7

Cam locking levers

Stainless steel



Nitrided and burnished or hardened and nickel-plated steel screw. Eccentric or helical "pull" or "push" cam, in AISI 303 stainless steel. The system is self-locking at any angular positioning.

Cam diameter: 40 - 50 mm

GN 187.4 Toothed clamping elements Steel



The toothed elements are used to secure coupled parts at a given angle. Designed to be combined with GN 187.1 cases and GN 187.2 thrust spring. Diameters: 22 - 27 - 32 - 40 mm

GN 187.2

Thrust springs for GN 187.4

for toothed clamping elements GN 187.4, stainless steel



The thrust springs have been designed to optimise the use of the GN 187.4 and GN 187.4-NI toothed clamping elements. Diameters: 15 - 18 - 23 - 28 mm

GN 918 - GN 918.1 - GN 918.2

Cam locking levers

Steel



Duroplast handle. Nitrided and black-oxide steel or hardened and nickel-plated steel screw

Eccentric or helical "pull" or "push" cam, case-hardened and burnished steel. Cam diameter: 40 - 50 mm

Toothed clamping elements

SUPER-technopolymer









With or without built-in case. ML-RDB: AISI 301 stainless steel thrust springs facilitating the detachment of the locking elements. Diameters: 32 - 40 mm

parts at a given angle.

GN 187.1

Cases for GN 187.4

for toothed clamping elements GN 187.4, steel or stainless steel





The cases have been designed to optimise the use of the GN 187.4 and GN 187.4-NI toothed clamping elements.

Diameters: 22 - 27 - 32 - 40 mm

GN 187.4-NI Toothed clamping elements

Stainless steel





The toothed elements are used to secure coupled parts at a given angle. Designed to be combined with GN 187.1 cases and GN 187.2 thrust spring. Diameters: 22 - 27 - 32 - 40 mm









































9.4 Locking elements continues

GN 188 Toothed clamping elements

Stainless steel



Without pass-through hole bushing or with threaded pass-through hole bushing or with threaded pass-through hole and centring step. AISI 301 stainless steel thrust spring to ensure correct separation during loosening. The toothed elements are used to secure coupled parts at a given angle. Diameters: 35 - 55 - 75 mm

GN 187.5 Toothed clamping elements

Stainless steel





GN 187.6

Locking joint set

for toothed clamping elements GN 187.5, zinc alloy and stainless steel



With or without locking lever or with lever and eccentric cam.

The set allows the locking of the different combinations of GN 187.5 toothed elements. Diameters: 27 - 32 - 40 mm

GN 928

Clamping elements

for round cross section shafts, steel



The unit allows round-section shafts, from 6 to 125 mm diameter, to be clamped precisely and

Diameters: 8 - 10 - 12 - 16 - 20 - 25 - 30 mm

GN 928.1 Mounting tools

for shaft clamping



elements GN 928



Steel

9.5 Transfer units



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GN 509

Ball transfer units

Steel



Drawn sheet metal and zinc-plated retaining components; balls in zinc-plated steel or stainless steel. They are particularly suitable for applications on conveyor lines. They facilitate both linear and rotational movements of even heavy loads. Diameters: 24 - 36 - 45 mm

GN 509.1

Ball transfer units

Steel or stainless steel





Turned and zinc-plated steel, AISI 420B or AISI 303 stainless steel. Balls in natural steel or AISI 420C stainless steel. They are particularly suitable for applications on conveyor lines. They facilitate both linear and rotational movements of even heavy loads.
Diameters: 22 - 24 - 36 - 45 - 62 - 100 mm

Material

- · Technopolymer (3)
- Steel (4)
- · Stainless steel (5)

GN 509.4

Ball transfer units

Steel



Retaining components made of turned and zinc-plated steel; steel balls.

They are particularly suitable for applications on conveyor lines. They facilitate both linear and rotational movements of even heavy loads. Diameters: 18 - 22 - 24 - 36.5 - 44.4 - 62.6 mm

GN 509.3

Spring rings

for ball transfer units, steel or stainless steel





In stainless steel, for fastening and removal from the installation side or in zinc-plated steel, for safety fastening from the non-installation side. They allow easy, quick insertion and removal of the ball transfer units.

Diameters: 36 - 38 mm







9.5 Transfer units continues

9.6 Modular roller tracks

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Material Technopolymer (7)

Aluminium (1)

Ball transfer units Technopolymer



Main ball in technopolymer, white or AISI 316 stainless steel

They are particularly suitable for applications on transfer and conveyor lines or end of production

Diameters: 10.4 - 24 - 36 - 45 mm

UTB-SST-ESD

Ball transfer units ESD conductive technopolymer



Main ball in AISI 316 stainless steel. They are particularly suitable for applications on transfer and conveyor lines or end of production

Diameters: 24 mm

Ball transfer units Technopolymer



Roller in technopolymer, white or blue colour. They are particularly suitable for applications on transfer and conveyor lines or end of production

Diameters: 24 - 36 mm





































Roller elements for **ELEROLL** roller tracks

Technopolymer and polyurethane









They can be used to create sliding benches, suitable for several applications: feeding and discharging benches, in construction machinery, storage and picking systems, packaging machinery. Technopolymer roller elements with high load capacity. Antitrace thermoplastic polyurethane roller elements.

Ball elements for **ELEROLL** roller tracks

Technopolymer





Ball elements for the omnidirectional handling. They can be used to create sliding benches, suitable for several applications: feeding and discharging benches, in construction machinery, storage and picking systems, packaging machinery. High load capacity technopolymer ball elements.

RLT-H

Headers for ELEROLL roller tracks

Technopolymer



PA

Junction or end cap. They bind two ELEROLL roller tracks together or are the end element of ELEROLL roller tracks.

Roller elements for ELEROLL roller tracks

For packages with reduced size. technopolymer







They can be used to create sliding benches. suitable for several applications: feeding and discharging benches, in construction machinery, storage and picking systems, packaging machinery. Technopolymer roller elements with high load capacity. Antitrace thermoplastic polyurethane roller elements.

roller tracks

for roller elements. aluminium



The particular section of the profile makes it possible to interlock the roller and ball elements without the need for screws or other fastening elements. The profile ensures high resistance to bending under load and the installation of the roller tracks, even when not fully supported, without the need for other load-bearing elements.

Containment edge for **ELEROLL** roller tracks

Polycarbonate



The RLT-CE containment edge designed for use with RLT-U roller elements is used for the lateral containment of light products transported on ELEROLL roller tracks.



9.6 Modular roller tracks

Brakes for ELEROLL roller tracks

Polycarbonate



Bracket and support for ELEROLL roller tracks

Technopolymer



The bracket and the support facilitate the mounting of ELEROLL roller tracks on machines and other supporting structures.

continues























9.7 Level bubbles



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Material

- · Technopolymer (4)
- · Stainless steel (1)
- · Aluminium (5)
- Brass (1)

BEL-PM

Level bubbles

other fasteners.

for mounting in suitable housings



Anodised aluminium body, natural or black colour. With smooth reference surface or threaded pin. They are used to control the horizontal positioning of machines, devices, equipment and instruments.

RLT-B brakes allow to slow down and/or stop packages handled on ELEROLL roller tracks.

The brakes are snap-in assembled on RLT-U

roller elements without the need for screws or

Diameters: 14 - 20 - 30 mm

BEL-PH

Level bubbles

for mounting in suitable housinas



Body in anodised aluminium, black colour. Glass lens without or with contrast ring. Colourless or transparent green contrast fluid. They are used to control the horizontal posítioning of machines, devices, equipment and instruments. Diameters: 12 - 14 - 15 - 18 mm

BEL-MF

Level bubbles

with mounting flange



Anodised aluminium body, natural or black colour. Rear or front mounting flange. Colourless contrast fluid.

Used to control the horizontal positioning of jigs, machines, devices, equipment and instruments. Diameters: 20 - 25 - 30 - 40 - 50 mm

BEL-RB

Level bubbles

for screw mounting, aluminium



Aligned version, front mounting, not adjustable or adjustable.

Transparent green contrast fluid. Used to control the horizontal positioning of jigs, machines, devices, equipment and instruments. Diameter: 62 mm

BEL-BH

Level bubbles

for mounting in suitable housings



Body in anodised aluminium, black colour. Colourless contrast fluid.

They are used to control the horizontal positioning of machines, devices, equipment and instruments.

Diameters: 20 - 25 - 30 mm

BEL-AD Level bubbles

with adjusting pin



Anodised aluminium body, natural or black colour. Colourless contrast fluid.

Used to control the horizontal positioning of jigs. Diameters: 17 - 20 - 24 mm

Adjusting plates

for BEL-MF level bubbles, stainless steel





Used in combination with the BEL-MF-A level

Diameters: 20 - 25 - 30 - 40 - 50 mm

BEL-MS

Monodirectional screw-on levels

for mounting with screws



Brass body with epoxy resin coating, grey or black colour. Version with a view from above, from above and one side, from above and both sides.

Transparent green contrast fluid.
Used to control the horizontal positioning of jigs, machines, devices, equipment and instruments. Dimension: 37 mm





9.7 Level bubbles continues

Monodirectional screw-on levels

for screw mounting. aluminium



Anodised aluminium body, natural or black colour. Aligned version, front mounting, not adjustable or adjustable. Transparent green contrast fluid. Used to control the horizontal positioning of jigs, machines, devices, equipment and instruments. Dimension: 54 mm

BOL-PH Level bubbles

for mounting in suitable housings



РММА

Range of the level bubble: 5 angle degrees at

Colourless contrast fluid.

Used to control the horizontal positioning of jigs, machines, devices, equipment and instruments. Diameters: 40 - 63 mm

9.8 Spur gears



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Material

- Technopolymer (5)
- Steel (1)
- · Stainless steel (1)

ZCL Spur Gears

Technopolymer, pressure angle 20°



Grey reinforced technopolymer. Gears with non-drilled hub, smooth pass-through hole or keyway. Modules 0.5, 1.0, 1.5, 2.0, 2.5, 3.0.

Spur Gears

Acetal resin based technopolymer, pressure angle 20°.



Technopolymer, white colour. Gears with smooth pass-through hole Modules 0.5, 0.7, 1.0, 1.25, 1.5, 2.0, 3.0.

Lead screw nuts

Trapezoidal thread, technopolymer



Self-lubricating polyamide- or acetal-based technopolymer, raw materials suitable for food contact (FDA EU 10/2011). Together with NSL screws, NSF nuts form a system for converting rotation into linear motion. Used in the packaging sector. Diameters: 42 - 48 - 55 - 62 mm

Monodirectional screw-on levels

for screw mounting, technopolymer







Without springs and screws for fixed mounting; with harmonic steel springs and zinc-plated steel self-tapping screws, for adjustable mounting. Transparent green contrast fluid, UV resistant. Used to control the horizontal positioning of jigs, machines, devices, equipment and instruments. Dimensions: 56 - 87 mm

BOL-MF

Level bubbles

with mounting flange





Range of the level bubble: 3, 5 or 10 angle degrees at full scale.

Colourless contrast fluid.

Used to control the horizontal positioning of jigs, machines, devices, equipment and instruments. Diameters: 55 - 80 - 100 mm

ZCL-VD

Spur Gears

Visually Detectable technopolymer, pressure angle 20°





Gears with non-drilled hub or with smooth pass-through hole. Modules 1.0, 1.5, 2.0,

Racks

Technopolymer, pressure angle 20°





Square section racks with or without steel core, T-shaped or with mounting bracket. Modules 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 4.0.

Lead screw shafts for NSF

Trapezoidal thread, steel or stainless steel





NSL threaded shafts form, together with NSF nuts, a structured system for converting rotation into linear motion.











































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9.8 Spur gears continues





PA

Aluminium boss. Male half-coupling, external teeth or female half-coupling, internal teeth.

Toothed joints are used to couple rotating

Diameters: 20 - 24 - 27 mm

GN 3975

Worm Gear Reducers

Housing Aluminum



It can transmit high torques despite its extremely compact dimensions. It can be easily used for numerous applications, such as height adjustment or changing the direction of rotation of the shaft. The numerous fixing holes allow simple assembly in any orientation or position. The keys can assume any angular position. Dimension: 35 mm

Bevel Gear Boxes Housing Aluminum



It can transmit high torques despite its extremely compact dimensions. It can be easily used for numerous applications, such as height adjustment or changing the direction of rotation of the shaft. The numerous fixing holes allow simple assembly in any orientation or position. The keys can assume any angular position. Dimensions: 18 - 20 - 24 - 26 - 30 -32 - 35 mm





Vibration mounts



A wide range of natural rubber buffers with steel or AISI 304 stainless steel base plates to dampen inconvenient vibrations that can cause machine malfunctions, shocks or noise.

10.1 Rubber buffers



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Material

- Rubber Steel (13)
- · Rubber Stainless steel (14)
- Steel (1)

DVA.1

Rubber buffers

Rubber and steel or stainless steel



Threaded studs and base plate in polished zinc-plated steel or AISI 304 stainless steel. Vibration-damper body in natural rubber NR, hardness 40, 55, 70 ±5 Shore A. Diameters: 6 - 8 - 10 - 15 - 20 - 25 - 30 - 40 - 50 - 60 - 70 - 75 - 80 - 100 - 125 mm

DVA.3

Rubber buffers Rubber and steel or

stainless steel



INOX STAINLESS STEEL

Bosses with threaded blind holes and base plate in polished zinc-plated steel or AISI 304 stainless steel. Vibration-damper body in natural rubber NR, hardness 40, 55, 70 ± 5 Shore A. Diameters: 8 - 10 - 15 - 20 - 25 - 30 - 40 - 50 - 60 - 70 - 75 - 80 - 100 - 125 - 150 - 200 mm

DVA.5

Rubber buffers

Rubber and steel or stainless steel



INOX STAINLESS STEEL

Boss with threaded blind hole and base plate in polished zinc-plated steel or AISI 304 stainless steel. Vibration-damper body in natural rubber NR, hardness 40, 55, 70 ±5 Shore A. Diameters: 8 - 10 - 15 - 20 - 25 - 30 - 40 - 50 - 60 - 70 - 75 - 100 - 125 - 150 - 200 mm

DVA.7

Rubber buffers

Rubber and steel or stainless steel



INOX STAINLESS STEEL

Boss with threaded blind hole and base plate in polished zinc-plated steel or AISI 304 stainless steel. Vibration-damper body in natural rubber NR, hardness 40, 55, 70 ± 5 Shore A. Diameters: 10 - 20 - 25 - 30 - 35 - 50 - 70 - 75 mm

DVA.2

Rubber buffers

Rubber and steel or stainless steel



INOX STAINLESS STEEL

Boss with threaded blind hole, threaded stud and base plate in polished zinc-plated steel or AISI 304 stainless steel. Vibration-damper body in natural rubber NR, hardness 40, 55, 70 \pm 5 Shore A. Diameters: 8 - 10 - 15 - 20 - 25 - 30 - 40 - 50 - 60 - 70 - 75 - 100 - 125 mm

DVA.4

Rubber buffers

Rubber and steel or stainless steel



INOX STAINLESS STEEL

Threaded stud and base plate in polished zinc-plated steel or AISI 304 stainless steel. Vibration-damper body in natural rubber NR, hardness 40, 55, 70 ± 5 Shore A. Diameters: 8 - 10 - 15 - 20 - 25 - 30 - 40 - 50 - 60 - 70 - 75 - 80 - 100 - 125 mm

DVA.6

Rubber buffers

Rubber and steel or stainless steel



NOX FAINLESS SYEEL

Threaded stud and base plate in polished zinc-plated steel or AISI 304 stainless steel. Vibration-damper body in natural rubber NR, hardness 40, 55, 70 ±5 Shore A. Diameters: 10 - 20 - 25 - 30 - 35 - 50 - 70 - 75 - 95 - 115 mm

DVB.6

Rubber buffers

Rubber and steel or stainless steel





Threaded stud and base plate in AISI 304 stainless steel.

Vibration-damper body in natural rubber NR, hardness 40, 55, 70 ± 5 Shore A. Diameters: 20 - 25 - 30 - 40 - 45 - 50 - 60 mm







































10. Vibration mounts

10.1 Rubber buffers continues

DVB.7 Rubber buffers

Rubber and steel or stainless steel



Boss with threaded blind hole and base plate in polished zinc-plated steel or AISI 304 stainless

Vibration-damper body in natural rubber NR, hardness 40, 55, 70 ± 5 Shore A. Diameters: 20 - 25 - 30 - 40 - 45 - 50 - 60 mm

Silicone rubber and stainless steel

Rubber buffers



Threaded stud and base plate in AISI 304 stainless steel. Vibration-damping body in MVQ silicone rubber, colour grey RAL 7040 or blue RAL 5002, hardness 55±5 Shore A. FDA compliant raw material (FDA CFR.21 and EU 10/2011). Diameters: 20 - 25 -30 - 40 - 45 - 50 - 60 mm

DVF.7

Rubber buffers

Silicone rubber and stainless steel



Boss with threaded blind hole and base plate in AISI 304 stainless steel.

Vibration-damping body in MVQ silicone rubber, colour grey RAL 7040 or blue RAL 5002, hardness 55±5 Shore A Diameters: 20 - 25 -30 - 40 - 45 - 50 - 60 mm

DVC.1 Rubber buffers

Rubber and steel or stainless steel





Threaded studs and base plate in polished zinc-plated steel or AISI 304 stainless steel. Vibration-damper body in natural rubber NR, hardness 40, 55, 70 ±5 Shore A.

Diameters: 10 - 15 - 20 - 25 - 30 - 35 - 40 - 50 -60 - 70 - 75 - 95 mm

DVC.2 Rubber buffers

Rubber and steel or stainless steel



Boss with threaded blind hole, threaded stud and base plate in polished zinc-plated steel or AISI 304 stainless steel, Vibration-damper body in natural rubber NR, hardness 40, 55, 70 \pm 5 Shore A. Diameters: 10 - 15 - 20 - 25 - 30 - 35 - 40 - 50 - 60 - 70 - 75 - 95 mm

DVC.3 Rubber buffers

Rubber and steel or stainless steel





Boss with threaded blind hole, threaded stud and base plate in polished zinc-plated steel or AISI 304 stainless steel. Vibration-damper body in natural rubber NR, hardness 40, 55, 70 ±5 Shore A. Diameters: 10 - 15 - 20 - 25 - 30 - 35 -40 - 50 - 60 - 70 - 75 - 95 mm

Rubber buffers

Rubber and steel or

stainless steel



Smooth pass-through hole and base plate in polished zinc-plated steel or AISI 304 stainless steel. Vibration-damper body in natural rubber NR, hardness 40, 55, 70 ± 5 Shore A. Diameters: 20 - 25 - 30 - 40 - 50 - 60 - 80 - 100 mm

Rubber buffers

Rubber and steel or stainless steel





Smooth pass-through hole and base plate in polished zinc-plated steel or AISI 304 stainless steel. Vibration-damper body in natural rubber NR, hardness 40, 55, 70 ±5 Shore A. Diameters: 15 - 20 - 25 - 30 - 35 - 40 - 50 - 60 -75 - 100 mm

DVL.3



Plain pass-through hole. Vibration-damper body in natural rubber NR, hardness 40, 55, 70 ± 5 Shore A. Diameters: 15 - 20 - 25 - 30 - 40 - 50 - 60 - 80- 100 mm

LS.VA

Vibration-damping levelling feet

Technopolymer base, steel stem, PUR damping element



Threaded stem with ball joint and adjusting hexagon in polished zinc-plated steel. Vibration-damping disk in polyurethane rubber, hardness 50 Shore A. Bases Ø: 32 - 40 - 50 - 60 mm Threadings: M8 - M10 - M12 - M14 - M16







10. Vibration mounts

10.1 Rubber buffers continues

LS.VA-SST

levelling feet

Stainless Steel AISI 304 stem, PUR damping element





Threaded stem with ball joint and adjusting hexagon in AISI 304 stainless steel. Vibration-damping disk in polyurethane rubber,

hardness 50 Shore A. Bases Ø: 32 - 40 - 50 - 60 mm Threadings: M8 - M10 - M12 - M14 - M17

BASE LS.VA

Bases for vibration-damping levelling feet

Technopolymer, PUR damping element



Vibration-damping disk in polyurethane rubber, hardness 50 Shore A.

Diameters: 32 - 40 - 50 - 60 mm

LM.SV Vibration-damping levelling feet

Steel base and stem



Ball joint with threaded hole or stem. PUR elastomer damping element, glued into the base housing. Zinc-plated steel nut. Bases Ø: 32 - 40 - 50 - 60 mm Threadings: M10 - M12 - M16

Rubber buffers

Rubber and steel

Flange mounts

stainless steel

Rubber and steel or

Oval or square mounting flange.

Diameters: 18 - 33 - 45 - 53 - 58 mm

Vibration-damper body in natural rubber NR,

Boss with threaded blind hole.

hardness 40, 60 ±5 Shore A.



Anthracite painted zinc-plated steel plates. Vibration-damping body in NBR rubber, hardness 30, 50, 55, 60 and 80 Shore A. Dimension: 200 mm

10.2 AV Mounts



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Vibration-damping

Technopolymer base,



LS.VA-STP

Vibration-damping levelling feet

Technopolymer base, SUPER-technopolymer stem, PUR damping element





Threaded stem with ball joint and adjustment hexagon in SUPER-technopolymer. Vibration-damping disk in polyurethane rubber, hardness 50 Shore A.
Bases Ø: 32 - 40 - 50 - 60 mm
Threadings: M8 - M10 - M12

LSQ.VA-SST

Vibration-damping levelling feet

Technopolymer base, Stainless Steel AISI 304 stem, PUR damping element







Threaded stem with ball joint and adjusting hexagon in AISI 304 stainless steel. Vibration-damping disk in polyurethane rubber, Hardness 50 Shore A.

Bases Ø: 32 - 40 - 50 - 60 mm

Threadings: M8 - M10 - M12 - M14 - M18

Vibration-damping levelling feet

Steel base and stem



NR rubber damping element. They have been designed to damp vibrations, shocks and noises produced by moving bodies or non-balanced vibrating masses of equipment and machines. Bases Ø: 80 - 120 - 160 - 200 mm Threadings: M12 - M16 - M20





































DVG

Flange mounts



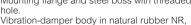
Mounting flange and steel boss with threaded



for wall or ceiling

mounting, rubber and





hardness 40, 60 ±5 Shore A. Dimension: 75 mm

10. Vibration mounts

10.2 AV Mounts continues



Material

- Rubber Steel (4)

Flange mounts

for wall mounting, rubber and steel



Mounting flange and steel boss with threaded

Vibration-damper body in natural rubber NR, hardness 40, 60 ± 5 Shore A. Dimension: 75 mm

Flange mounts

(double acting), rubber and steel



Aluminium flange, fixing boss in steel. Vibration-damper body in natural rubber NR, hardness 30, 50, 60 ±5 Shore A. Dimension: 80 mm

· Rubber - Stainless steel (2)



Metal Cushions

Stainless steel





AISI 304 stainless steel mesh. Mounting via smooth pass-through hole or countersunk-head screws Diameters: 42 - 67 - 98 - 150 - 183 - 225 mm

10.3 Spring mounts and wire rope isolators



elesa.com

Wire rope isolators

Stainless steel





Cable, bars, and screws in AISI 316 stainless

Mounting via threaded pass-through holes. Four-, six-, or eight-coil cable
Dimensions: 53 - 61 - 80 - 90 - 100 - 110 - 120 - 135 mm

Spring mounts

Rubber and steel



Body and no-slip coating in NR natural rubber, hardness 60 ±5 Shore A. Zinc-plated spring and plate. Dimension: 55 mm

- · Rubber Steel
- · Rubber Stainless steel







Industrial magnets



A wide range of industrial magnets for use in positioning and clamping applications.

11.1 Flat magnets



Magnet materials

- HF Hard ferrite (4)
- · AN Aluminium-nickel-cobalt (2)
- SC Samarium cobalt (3)
- ND Neodymium-iron-boron (12)

RMA Flat magnets





Zinc-plated steel housing. Fixed in place by means of glue or grub screws. Magnet in hard ferrite, (SmCo) samarium cobalt, (NdFeB) neodymium-iron-boron or (AlNiCo) aluminium-nickel-cobalt, shielded with high performances. \emptyset D = 6 ÷ 125 mm L = 4.5 ÷ 26 mm

Flat magnets

with threaded hole insert, hook-shaped or eyelet-shaped









Zinc-plated steel or stainless steel housing and threaded insert, hook-shaped or eyelet-shaped. Magnet in ferrite, samarium cobalt (SmCo), or neodymium iron boron (NdFeB), shielded with high performance.

ØD = 10 ÷ 125 mm L = 4.5 ÷ 26 mm

RME

Flat magnets

pass-through hole





Zinc-plated or lacquered steel housing. Magnet in aluminium, nickel, cobalt (AlNiCo), shielded with high performance. \emptyset D = 19 ÷ 38 mm L = 7.5 ÷ 10,5 mm

Flat magnets

with threaded hole



ND

Zinc-plated steel insert with threaded blind hole. No-slip coating in thermoplastic elastomer (TPE), black or white colour, hardness 80

Magnet in neodymium iron boron (NdFeB) \emptyset D = 12 ÷ 88 mm L = 6 ÷ 8,5 mm

Flat magnets

with threaded pin



Zinc-plated steel or AISI 316L stainless steel

housing. Magnet in ferrite, neodymium iron boron (NdFeB), or samarium cobalt (SmCo), shielded with high performance.

 \emptyset D = 10 ÷ 125 L = 4.5 ÷ 26

Flat magnets

HF SC ND

with pass-through hole



Zinc-plated steel or stainless steel housing. Magnet in ferrite, samarium cobalt (SmCo), or neodymium iron boron (NdFeB), shielded with high performance. Execution with pass-through hole, seat for countersunk screw or threaded hole. Ø D = $10 \div 100 \text{ mm L} = 4.5 \div 18 \text{ mm}$

RMH

Flat magnets

with threaded pin



ND

Zinc-plated steel insert with threaded pin. No-slip coating in thermoplastic elastomer (TPE), black or white colour, hardness 80

Magnet in neodymium iron boron (NdFeB) $\emptyset D = 12 \div 88 \text{ mm L} = 6 \div 8,5 \text{ mm}$

Flat magnets

threaded pass-through hole



ND

Zinc-plated steel insert with threaded hole. No-slip coating in thermoplastic elastomer (TPE), black or white colour, hardness 80 shore A.

Magnet in neodymium iron boron (NdFeB) \emptyset D = 12 ÷ 88 mm L = 6 ÷ 8,5 mm





































11. Industrial magnets

11.1 Flat magnets

continues

ND

Flat magnets threaded or plain pass-through hole



Zinc-plated steel insert with smooth hole. No-slip coating in thermoplastic elastomer (TPE), black or white colour, hardness 80

Magnet in neodymium iron boron (NdFeB) \emptyset D = 18 ÷ 66 mm L = 6 ÷ 8,5 mm

Flat magnets

Smooth pass-through hole for countersunk-head screws



ND

Zinc-plated threaded insert with smooth pass-through hole for countersunk-head screws. No-slip coating in thermoplastic elastomer (TPE), black or white colour, hardness 80 shore A. (NdFeB) Neodymium-iron-boron retaining magnet.

RMH-P

shore A.

Flat magnets knob or ring



ND

Insert with pin for connecting the knob or ring: nickel-plated steel.

No-slip coating in thermoplastic elastomer (TPE), black colour, hardness 80 shore A Magnet in neodymium iron boron (NdFeB) Ø D = 22 ÷ 43 mm L = 5,5 ÷ 6 mm

Retaining magnets for cables



ND

Black glass-fibre reinforced polyamide based (PA) technopolymer retaining bracket, screw and insert in zinc-plated steel. No-slip coating in thermoplastic elastomer (TPE), black colour, hardness 80 shore A. Magnet in neodymium iron boron (NdFeB). Ø D = 22 ÷ 43

ND

Flat rectangular retaining magnets with threaded holes







Zinc-plated threaded insert with one or two threaded holes. No-slip coating in thermoplastic elastomer (TPE), black or white colour, hardness 80 shore A. (NdFeB) Neodymium-iron-boron retaining magnet. L = 35 ÷ 110 mm

RMS-P

ND

Flat rectangular retaining magnets with threaded pin



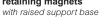




Zinc-plated insert with one or two threaded pins. No-slip coating in thermoplastic elastomer (TPE), black or white colour, hardness 80 shore A. (NdFeB) Neodymium-iron-boron retaining magnet. L = 35 ÷ 110 mm

RMS-D

Flat rectangular retaining magnets





ND Zinc-plated threaded insert with one or two smooth or threaded holes. No-slip coating in

thermoplastic elastomer (TPE), black colour. Magnet in ferrite or neodymium iron boron (NdFeB).

 $\dot{L} = 50 \text{ mm}$

Flat magnets





ND

Glass-fibre reinforced polyamide based (PA) technopolymer housing. Magnet in neodymium iron boron (NdFeB)

 \emptyset D = 18 ÷ 40 mm L = 8 ÷ 8,5 mm

RMT-DP

Flat magnets

with housing made out of coloured translucent technopolymer



ABS based technopolymer housing, Magnet in neodymium iron boron (NdFeB)

RMT-NK

Flat magnets With handle,

nickel-plated steel housing



ND

Nickel-plated steel housing. No-slip coating in thermoplastic elastomer (TPE), hardness 80 shore A. Execution with or without no-slip coating. Magnet in neodymium iron boron (NdFeB) Ø D = 12 mm



translucent, matte finish. $\emptyset D = 25 \text{ mm} \quad \hat{L} = 6 \text{ mm}$





11. Industrial magnets

11.1 Flat magnets continues

RMT-R

Flat rectangular retaining magnets



ND

Glass-fibre reinforced polyamide based (PA) technopolymer housing.

Magnet in neodymium iron boron (NdFeB)
Mainly used for holding drawings, documents, and similar on a metal surface.

L = 55 mm

11.2 Cylindric magnets



Magnet materials

- AN Aluminium-nickel-cobalt (5)
- SC Samarium cobalt (1)
- ND Neodymium-iron-boron (5)

RML Cylindric magnets





Zinc-plated steel or natural steel housing. Magnet in aluminium, nickel, cobalt (AlNiCo) or neodymium iron boron (NdFeB), shielded with high performance. \emptyset D = 4 ÷ 63 mm L = 20 ÷ 60 mm

Cylindric magnets

threaded hole





Zinc-plated steel housing.

Fixing in position via threaded blind hole. Magnet in aluminium, nickel, cobalt (AlNiCo) or neodymium iron boron (NdFeB), shielded with high performance. \emptyset D = 6 ÷ 63 mm L = 20 ÷ 65 mm

Cylindric magnets

threaded hole





Zinc-plated or lacquered steel housing. Fixing in position via threaded blind hole Magnet in aluminium, nickel, cobalt (AlNiCo), shielded with high performance. \emptyset D = 12,5 ÷ 35 mm L = 16 ÷ 30 mm

RMU

Cylindric magnets

no-slip coating





Stainless steel housing. Execution with threaded pin or hole. No-slip coating in thermoplastic elastomer (TPE), black colour, hardness 80

shore A. Magnet in neodymium iron boron (NdFeB). Ø D = $10 \div 25$ mm L = $14 \div 22$ mm

ND

Flat magnets With handle,

technopolymer





Glass-fibre reinforced polyamide based (PA)

technopolymer housing. Execution with full handle or with eyelet. Magnet in neodymium iron boron (NdFeB)

 \emptyset D = 12 mm

RMM Cylindric magnets





Brass housing.

Fixing in position with glue or via threaded blind hole. Magnet in samarium cobalt (SmCo), or neodymium iron boron (NdFeB), shielded with high performance. \emptyset D = 6 ÷ 32 mm L = 20 ÷ 40mm

Cylindric magnets

smooth or threaded pin





Zinc-plated steel housing with smooth or threaded pin.

Magnet in aluminium, nickel, cobalt (AlNiCo) or neodymium iron boron (NdFeB), shielded with high performance. \emptyset D = 6 ÷ 63 mm L = 20 ÷ 65 mm

Cylindric magnets

pass-through hole





Lacquered steel housing.

Fixing in position via smooth pass-through hole. Magnet in aluminium, nickel, cobalt (AlNiCo), shielded with high performance. \emptyset D = 13 ÷ 31,8 mm L = 10 ÷ 25,4 mm





































11. Industrial magnets

11.3 Unshielded magnets



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RMA-US

SC ND

Unshielded flat retaining magnets



Magnet in ferrite, samarium cobalt (SmCo), or neodymium iron boron (NdFeB). Ø D = 4 ÷ 108 mm L = 3 ÷ 21 mm

RMD-US

Unshielded flat retaining magnets pass-through hole



ND SC

Unshielded flat retaining magnets with pass-through hole Ø D = 12 ÷ 102 mm L = 3 ÷ 20 mm

Magnet materials

- AN Aluminium-nickel-cobalt (1)
- · SC Samarium cobalt (3)

RML-US

AN ND

Unshielded cylindric retaining magnets



Magnet in aluminium, nickel, cobalt (AlNiCo) or neodymium iron boron (NdFeB). \emptyset D = 3 ÷ 34 mm L = 10 ÷ 80 mm

RMX-US

Unshielded flat retaining magnets





Magnet in ferrite, neodymium iron boron (NdFeB), or samarium cobalt (SmCo), unshielded

They are mostly attached by gluing.

- ND Neodymium-iron-boron (3)

11.4 Horseshoe magnets and profile magnets



Horseshoe Magnets

pass-through hole



AN

Lacquered steel housing.

Magnet in aluminium, nickel, cobalt (AlNiCo) Fixing in position via smooth pass-through hole.

RMPR

Magnets for profile systems

Neodymium





Polyamide based (PA) technopolymer housing, black colour, matte finish.

Zinc-plated grub screws and plate. Magnet in neodymium iron boron (NdFeB)

11.5 Grub screws with magnet



elesa.com

GN 251.6

Magnetic setting

bolts

Steel



ND

Zinc-plated steel screw, class 5.8. Zinc-plated steel locking nut, class 04. (NdFeB) Neodymium-iron-boron retaining

Threadings: M6 - M8 - M10 - M12 - M16

GN 913.6

Magnetic grub screw





Zinc-plated screw, class 5.8., head with hexagonal socket.

Magnet in neodymium iron boron (NdFeB) Threadings: M6 - M8 - M10 - M12 - M16

11.6 Magnet accessories



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Disks for magnets

Steel or stainless steel





Disk with countersunk pass-through hole in magnetic stainless steel or zinc-plated steel. The disks are used for coupling to different types of magnets when the attraction must occur between the retaining magnet and the surfaces of non-magnetic material. \varnothing D = 12 ÷ 64 mm

Disks for magnets

adhesive tape



Disk with adhesive tape in zinc-plated steel or lacquered steel, white colour RAL 9003. \emptyset D = 20 - 30 - 40 - 60 mm







Levelling feet and supports



Components for assembly on machinery, machine guards and equipment built with profile systems and for the building up of production lines. Shapes, sizes and combinations of different materials allow their application in several industrial sectors.

12.1 Adjustable feet



Material

- Technopolymer (3)
- · Technopolymer Steel (13)
- · Technopolymer -Stainless steel (12)
- Steel (11)
- · Stainless steel (21)
- · Die-cast zinc alloy (1)

PA

Levelling feet

Technopolymer base, steel stem



Base with adjusting hexagon or screwdriver

Bases Ø: 25 - 30 - 40 - 50 - 60 mm Threadings: M6 - M8 - M10 - M12 - M16

LX-HS

PA

Levelling feet

Technopolymer base, steel stem with hexagon socket at the upper end



Base with adjusting hexagon or screwdriver

Bases Ø: 25 - 30 - 40 - 50 - 60 mm Threadings: M6 - M8 - M10 - M12 - M16



PA

Levelling feet

Technopolymer base, steel stem



Base with or without NBR rubber no-slip disk. On request zinc-plated steel or AISI 304 stainless steel nut.

Bases Ø: 25 - 32 - 40 - 50 mm Threadings: M8 - M10 - M12 - M14 - M16

LS.A-SST-VD

Levelling feet

Visually Detectable technopolymer base, stainless steel stem







Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). Base with or without no-slip NBR rubber disk. AISI 304 stainless steel nut on request. Bases Ø: 25 - 32 - 40 - 50 - 60 mm Threadings: M8 - M10 - M12 - M14 - M16 - M20 - M24

LX-SST

Levelling feet

Technopolymer base, stainless steel stem



Base with adjusting hexagon or screwdriver slot.

Bases Ø: 25 - 30 - 40 - 50 - 60 mm Threadings: M6 - M8 - M10 - M12 - M16

Levelling feet

Technopolymer base, steel stem



PA

Base with or without no-slip SBR rubber disk. Bases Ø: 26 - 30 - 40 mm

Threadings: M8 - M10

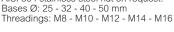
LS.A-SST

Levelling feet

Technopolymer base, stainless steel stem



Base with or without NBR rubber no-slip disk. AISI 304 stainless steel nut on request. Bases Ø: 25 - 32 - 40 - 50 mm



LS.A-PP-SST

Levelling feet

Technopolymer base (polypropylene), stainless steel stem





Base with or without no-slip EPDM rubber disk. AISI 304 stainless steel nut on request. Bases Ø: 40 - 50 - 60 mm Threadings: M8 - M10 - M12 - M14 - M16







































12. Levelling feet and supports

12.1 Adjustable feet continues

Levelling feet

technopolymer base, SUPER-technopolymer







Base with or without no-slip NBR rubber disk. Used for direct fixing using standard screws, without the need for a threaded stem.
Threadings: M6 - M8 - M10 - M12
Diameters: 25 - 32 - 40 - 50 - 60 mm

Levelling feet

Technopolymer base, SUPER-technopolymer





Base with or without no-slip NBR rubber disk. AISI 304 stainless steel or zinc-plated steel nut on request. SUPER-technopolymer stem that permits high rigidity and mechanical resistance in addition to natural anti-rust properties. Bases Ø: 25 - 32 - 40 - 50 - 60 mm Threadings: M8 - M10 - M12

LSQ.A-SST

Levelling feet

Technopolymer base, stainless steel stem





Base with or without NBR rubber no-slip disk. AISI 304 stainless steel nut on request. Bases Ø: 25 - 32 - 40 - 50 mm Threadings: M8 - M10 - M12 - M14 - M16

LSQ.A-SST-VD

Levelling feet

Visually Detectable technopolymer base, stainless steel stem









Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011) Base with or without no-slip NBR rubber disk. AISI 304 stainless steel nut on request. Bases Ø: 25 - 32 - 40 - 50 - 60 mm Threadings: M8 - M10 - M12 - M14 - M16 - M20

Levelling feet

Technopolymer base, steel stem





Base with or without no-slip NBR synthetic rubber disk. Zinc-plated steel nut on request. Bases Ø: 60 - 70 - 80 - 100 - 125 mm Threadings: M8 - M10 - M12 - M14 - M16 - M20

LV.A-SST Levelling feet

Technopolymer base, stainless steel stem





Base with or without no-slip NBR synthetic rubber disk. AISI 304 stainless steel nut on

Bases Ø: 60 - 70 - 80 - 100 - 125 mm Threadings: M8 - M10 - M12 - M14 - M16 - M20

LV.A-SST-VD

Levelling feet

Visually Detectable technopolymer base, stainless steel stem







Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011) Base with or without no-slip NBR rubber disk. AISI 304 stainless steel nut on request. Bases Ø: 60 - 70 - 80 - 100 - 125 mm Threadings: M8 - M10 - M12 - M14 - M16 - M24

LV.A-ESD-C

Levelling feet

ESD conductive technopolymer base, steel stem



Base with or without no-slip NBR synthetic rubber disk. Zinc-plated steel nut on request. Bases Ø: 60 - 70 - 80 - 100 - 125 mm Threadings: M8 - M10 - M12 - M14 - M16 - M20

LV.A-SST-ESD-C

Levelling feet

ESD conductive technopolymer base, stainless steel stem





Base with or without no-slip NBR synthetic rubber disk. AISI 304 stainless steel nut on

Bases Ø: 60 - 70 - 80 - 100 - 125 mm Threadings: M8 - M10 - M12 - M14 - M16 - M20

LV.A+SJF

Levelling feet

technopolymer base, SUPER-technopolymer joint







Base with or without no-slip NBR rubber disk. Used for direct fixing using standard screws, without the need for a threaded stem. Threadings: M6 - M8 - M10 - M12 Diameters: 60 - 70 - 80 - 100 - 125 mm









12. Levelling feet and supports

12.1 Adjustable feet continues

Levelling feet

Technopolymer base, SUPER-technopolymer





Base with or without no-slip NBR rubber disk. Zinc-plated or AISI 304 stainless steel nut on request. SUPER-technopolymer stem that provides high rigidity and mechanical resistance in addition to natural anti-rust properties. Bases Ø: 80 - 100 mm Threadings: M8 - M10 - M12

LVQ.A-SST-VD

Levelling feet

Visually Detectable technopolymer base, stainless steel stem







Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011) Base with or without no-slip NBR rubber disk. AISI 304 stainless steel nut on request. Bases Ø: 60 - 70 - 80 - 100 mm Threadings: M8 - M10 - M12 - M14 - M16 - M20

LV.F-SST

Levelling feet for ground mounting

Technopolymer base. stainless steel stem







Base with or without NBR rubber no-slip disk. AISI 304 stainless steel nut on request. Fixing to the ground by means of 2 supplied 180° holes closed by a diaphragm. Bases Ø: 80 - 100 - 125 mm Threadings: M8 - M10 - M12 - M14 - M16 - M20 - M24

LV.F-ESD-C

Levelling feet for ground mounting ESD conductive

technopolymer base, steel stem





Base with or without no-slip NBR rubber disk. Fixing to the ground by means of 2 supplied 180° holes closed by a diaphragm. Zinc-plated steel nut on request. Bases Ø: 100 mm

Threadings: M8 - M10 - M12 - M16

LV.F-PP-SST

Levelling feet for ground mounting Technopolymer base (polypropylene), stainless steel stem





Base with or without no-slip EPDM rubber disk. AISI 304 stainless steel nut on request. Fixing to the ground by means of 2 supplied 180° holes closed by a diaphragm. Bases Ø: 80 - 100 mm

Threadings: M16 - M20 - M24

LVQ.A-SST

Levelling feet

Technopolymer base, stainless steel stem





Base with or without no-slip NBR synthetic rubber disk. AISI 304 stainless steel nut on request

Bases Ø: 60 - 70 - 80 - 100 mm Threadings: M8 - M10 - M12 - M14 - M16 - M20

LV.F

Levelling feet for ground mounting

Technopolymer base, steel stem





Base with or without NBR rubber no-slip disk. Zinc-plated steel nut on request. Fixing to the ground by means of 2 supplied 180° holes closed by a diaphragm. Bases Ø: 80 - 100 -125 mm Threadings: M8 - M10 - M12 - M14 - M16 - M20 - M24

LV.F-SST-VD

Levelling feet for ground mounting

Visually Detectable technopolymer base, stainless steel stem







Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). Base with or without no-slip NBR rubber disk. Fixing to the ground by means of 2 supplied 180° holes closed by a diaphragm. AISI 304 stainless steel nut on request. Bases Ø: 80 - 100 - 125 mm
Threadings: M8 - M10 - M12 - M14 - M16 - M24

LV.F-SST-ESD-C Levelling feet for

ground mounting ESD conductive technopolymer base, stainless steel stem







Base with or without no-slip NBR rubber disk. Fixing to the ground by means of 2 supplied 180° holes closed by a diaphragm. AISI 304 stainless steel nut on request. Bases Ø: 100 mm

Threadings: M8 - M10 - M12 - M16

LV.F+SJF

Levelling feet for ground mounting technopolymer base, SUPER-technopolymer ioint





Base with or without no-slip NBR rubber disk. Fixing to the ground by means of 2 supplied 180° holes closed by a diaphragm. Used for direct fixing using standard screws, without the need for a threaded stem. Threadings: M6 - M8 - M10 -M12 Diameters: 60 - 70 - 80 - 100 - 125 mm





































12. Levelling feet and supports

12.1 Adjustable feet

continues

Levelling feet for ground mounting

Technopolymer base, SUPER-technopolymer stem





Base with or without no-slip NBR rubber disk. Fixing to the ground by means of 2 supplied 180° holes closed by a diaphragm. AISI 304 stainless steel or zinc-plated steel nut on request. SUPERtechnopolymer stem for high rigidity, mechanical resistance, and anti-rust properties. Bases Ø: 60 - 70 - 80 - 100 mm Threadings: M8 - M10 - M12

LVQ.F-SST-VD

Levelling feet for ground mounting

Visually Detectable technopolymer base, stainless steel stem







Produced from FDA compliant raw material (FDA Produced from FDA compliant raw material (FL CFR.21 and EU 10/2011). Base with or without no-slip NBR rubber disk. Fixing to the ground by means of 2 supplied 180° holes closed by a diaphragm. AISI 304 stainless steel nut on request. Bases Ø: 80 - 100 mm Threadings: M16 - M20 - M24

LV.FO-SST

Levelling feet for ground mounting

Technopolymer base. stainless steel stem





Base with or without NBR rubber no-slip disk. AISI 304 stainless steel nut on request. Fixing to the ground by means of 2 supplied holes closed by a diaphragm. Bases Ø: 60 - 80 mm Threadings: M8 - M10 - M12 - M16

LV.FO-STP

Levelling feet for ground mounting Technopolymer base, SUPER-technopolymer

stem





Base with or without no-slip NBR rubber disk Fixing to the ground by means of 2 supplied 180° holes closed by a diaphragm. AISI 304 stainless steel or zinc-plated steel nut on request. SUPER-technopolymer stem for high rigidity, mechanical resistance, and anti-rust properties.

Bases Ø: 60 - 80 mm Threadings: M8 - M10 - M12

LV.A-125-ACV

Levelling feet

Technopolymer base, steel stem



Base with or without NBR rubber no-slip disk. Articulated threaded stem in polished zinc-platedsteel with adjusting hexagon. Stem/base fixingwith zinc-plated steel screw and washer. Zinc-plated steel nut on request Bases Ø: 125 mm. Threaded stem: M20 - M24 - M30

LVQ.F-SST

Levelling feet for ground mounting

Technopolymer base, stainless steel stem





Base with or without NBR rubber no-slip disk. AISI 304 stainless steel nut on request. Fixing to the ground by means of 2 supplied holes closed by a diaphragm. Bases Ø: 60 - 80 mm

Threadings: M16- M20 - M24

LV.FO

Levelling feet for ground mounting

Technopolymer base, steel stem





Base with or without NBR rubber no-slip disk. AISI 304 stainless steel nut on request. Fixing to the ground by means of 2 supplied holes closed by a diaphragm. Bases Ø: 60 - 80 mm

Threadings: M8 - M10 - M12 - M16

LV.FO+SJF

Levelling feet for ground mounting

technopolymer base, SUPER-technopolymer ioint





Base with or without no-slip NBR rubber disk. Fixing to the ground by means of 2 supplied 180° holes closed by a diaphragm. Used for direct fixing using standard screws, without the need for a threaded stem.
Threadings: M6 - M8 Diameters: 60 - 80 mm

LVQ.FO-SST

Levelling feet for ground mounting

Technopolymer base, stainless steel stem





Base with or without NBR rubber no-slip disk. AISI 304 stainless steel nut on request. Fixing to the ground by means of 2 supplied holes closed by a diaphragm. Bases Ø: 60 - 80 mm

Threadings: M8 - M10 - M12 - M16

LV.F-125-ACV

Levelling feet for ground mounting

Technopolymer base, steel stem





Base with or without NBR rubber no-slip disk. Articulated threaded stem in polished zinc-plated steel with adjusting hexagon. Zinc-plated steel nut on request. Fixing to the ground by means of 2 180° holes. Bases Ø: 125 mm Threaded stem: M20 - M24 - M30







12.1 Adjustable feet continues

LV.A-125-APS

Levelling feet

PA

LV.A-ELK Levelling feet

Technopolymer base

and knob, steel stem

Technopolymer base, steel stem



Base with or without NBR rubber no-slip disk. Pass-through threaded stem in zinc-plated steel with adjusting hexagon, black-oxide steel retaining ring and zinc-plated steel flat washer. Polished zinc-plated steel nut on request. Bases Ø: 125 mm Threaded stem: M20 - M24 - M30

Base with or without NBR rubber no-slip disk.

Zinc-plated steel articulated threaded stem with

integrated technopolymer adjustment knob (ELK), washer and retaining screw in black-oxide steel. Polished zinc-plated steel nut on request. Bases Ø: 70 - 80 mm Stem threading: M16

LV.F-125-APS Levelling feet for

ground mounting

Technopolymer base, steel stem



Base with or without NBR rubber no-slip disk. Pass-through threaded stem in zinc-plated steel with adjusting hexagon. Fixing to the ground by means of 2 180° holes.

Polished zinc-plated steel nut on request. Bases Ø: 125 mm Threaded stem: M20 - M24 - M30

PA

Nuts for levelling feet

Steel or stainless steel





Threadings: M8 - M10 - M12 - M14 - M16 - M20





- M24 - M30



PA

Stems for levelling feet

Steel or stainless steel



Threaded stem with ball joint and adjusting hexagon in polished zinc-plated steel or AISI 304 stainless steel.

Threadings: M8 - M10 - M12 - M14 - M16 - M20 - M24

SMQ-SST

Stems for levelling feet

Stainless steel



Threaded stem with ball joint with adjusting

Threadings: M8 - M10 - M12 - M16 - M20 -M24



Stems for levelling

feet

SUPER-technopolymer





Threaded stem with ball joint and adjustment hexagon in SUPER-technopolymer. Threadings: M8 - M10 - M12

Ball joint

for levelling feet, SUPER-Technopolymer



Used for direct fixing of levelling feet, using standard screws, without the need for a threaded stem.

Threadings: M6 - M8 - M10 - M12



BASE LS.A - LV.A - LV.F - LV.FO

Bases for levelling feet

Technopolymer

PA



Base with or without no-slip disk. Without ground fixing or with two holes or at 180° for ground fixing, supplied closed with a diaphragm.

Diameters: 25 - 32 - 40 - 50 mm

BASE LV.A-ESD-C - LV.F-ESD-C

Levelling element bases

ESD conductive technopolymer





Base with or without no-slip disk. Without ground fixing or with two holes at 180° for ground fixing, supplied closed with a diaphragm.

Diameters: 60 - 70 - 80 - 100 - 125 mm











































12.1 Adjustable feet continues

BASE LS.A-PP - LV.F-PP

Bases for levelling feet

Technopolymer (polypropylene)

PP



Base with or without no-slip disk. Without ground fixing or with two holes at 180° for ground fixing, supplied closed with a diaphragm.

Diameters: 40 - 50 - 60 - 80 - 100 mm

BASE LS.A-VD - LV.A-VD - LV.F-VD

Bases for levelling feet

Visually Detectable technopolymer

(III)



Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). Base with or without no-slip NBR rubber disk. Without ground fixing or with two holes or at 180° for ground fixing, supplied closed with a diaphragm. Dimensions: 25 - 32 - 40 - 50 - 60 - 70 - 80 - 100 - 125 mm

GN 6311.4

Levelling feet

Steel base and stem



Zinc-plated steel stem, hexagon socket head and hardened rounded end.

With base without any non-slip treatment, with elastomer no-slip or technopolymer no-slip. Bases Ø: 50 - 60 mm

Threadings: M10 - M12 - M16 - M20

GN 6311.6

Levelling feet

Stainless steel base and stem



AISI 304 stainless steel base and stem. With base without no-slip; with no-slip coating, with elastomer no-slip or with technopolymer bearing protection. Bases Ø: 50 - 60 mm

Threadings: M10 - M12 - M16 - M20

Levelling feet

Zinc-plated steel



Zinc-plated steel joint with hole or threaded

Nut in zinc-plated steel. Bases Ø: 25 - 32 - 40 - 50 - 60 mm Threadings: M8 - M10 - M12 - M16 - M20 - M24

Levelling feet

Stainless steel

AISI 303 stainless steel joint with hole or threaded stem.

AISI 304 stainless steel nut. Bases Ø: 25 - 32 - 40 - 50 - 60 mm

Threadings: M8 - M10 - M12 - M16 - M20 - M24

Levelling feet

With bearing protection,



Zinc-plated steel joint with hole or threaded

Nut in zinc-plated steel. Technopolymer bearing protection. Bases Ø: 25 - 32 - 40 - 50 - 60 mm Threadings: M8 - M10 - M12 - M16 - M20 - M24

LM-SST-AC

Levelling feet

With bearing protection, stainless steel





AISI 303 stainless steel joint with hole or threaded stem.

AISI 304 stainless steel nut. Technopolymer bearing protection.
Bases Ø: 25 - 32 - 40 - 50 - 60 mm
Threadings: M8 - M10 - M12 - M16 - M20 - M24

LM-TR

Levelling feet

With non-slip disk, steel



Zinc-plated steel joint with hole or threaded stem. Nut in zinc-plated steel. No-slip coating in thermoplastic elastomer

(TPE). Bases Ø: 25 - 32 - 40 - 50 - 60 mm Threadings: M8 - M10 - M12 - M16 - M20 - M24

LM-SST-TR

Levelling feet





AISI 303 stainless steel joint with hole or threaded stem. AISI 304 stainless steel nut. No-slip coating in thermoplastic elastomer

Bases Ø: 25 - 32 - 40 - 50 - 60 mm Threadings: M8 - M10 - M12 - M16 - M20 - M24





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12.1 Adjustable feet continues

Levelling feet

without central fastening hole, steel



Steel base, with or without no-slip disk and O-ring. Vibration-damping NBR rubber disk, NBR rubber O-ring. Zinc-plated steel threaded stem. Bases Ø: 80 - 100 - 125 - 160 - 200 mm Threadings: M20 - M24 - M30 - M36 - M42

GN 37

Levelling feet

with central fastening hole, steel



Steel base, with or without no-slip disk and O-ring. Vibration-damping NBR rubber disk, O-Inig. Mbration-damping NBR rubber disi NBR rubber O-ring. Zinc-plated steel threaded stem. Bases Ø: 80 - 100 - 125 - 160 - 200 mm Threadings: M20 - M24 - M30 - M36 - M42

Levelling feet

Steel base and stem



Base with joint with hole or threaded stem LMP-TR with thermoplastic elastomer (TPE) no-slip coating. LMP-TV with vulcanised rubber (NBR) no-slip coating. Zinc-plated or AISI 304 stainless steel nut. Bases Ø: 40 - 50 - 60 - 80 mm Threadings: M8 - M10 - M12 - M16 - M20 - M24

LMP.F

Levelling feet for ground mounting

Steel base and stem



Base with or without NBR rubber no-slip disk. AISI 304 stainless steel nut on request. Fixing to the ground by means of 2 supplied holes closed by a diaphragm. Bases Ø: 60 - 80 mm

Threadings: M16- M20 - M24

LMP.FF

Levelling feet for ground mounting

Steel base and stem



Base with 2 holes for ground mounting, articulation or threaded stem with Zinc-plated steel nut.

AISI 304 stainless steel assembly screws. Bases Ø: 40 - 50 - 60 - 80 mm Threadings: M8 - M10 - M12 - M16

GN 36.1

Base

without central fastening hole, adjustable feet GN 36, steel



Steel base, with or without no-slip disk and

Vibration-damping NBR rubber disk,

NBR rubber O-ring. Bases Ø: 80 - 100 - 125 - 160 - 200 mm

GN 37.1

Base

with central fastening hole, adjustable feet GN 37, steel



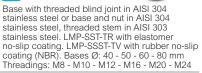
Steel base, with or without no-slip disk and O-ring.

Vibration-damping NBR rubber disk, NBR rubber O-ring. Bases Ø: 80 - 100 - 125 - 160 - 200 mm



Stainless steel base and stem





LMP.F-SST - LMP.F-A4

Levelling feet for ground mounting

Stainless steel base and stem



Base with threaded blind joint in AISI 304 stainless steel or base and nut in AISI 304 stainless steel with threaded stem and nut in AISI 304 stainless steel with threaded stem and nut in AISI 303 stainless steel. LMPF-SST-TR with elastomer no-slip coating. LMRF-SSST-TV with rubber no-slip coating. Bases Ø: 50 - 60 - 80 mm Threadings: M8 - M10 - M12 - M16 - M20

LMP.FF-SST - LMP.FF-A4 Levelling feet for ground

mounting

Stainless steel base and stem



Base with 2 holes for ground fixing, joint or threaded stem with nut in AISI 304 stainless

AISI 304 stainless steel assembly screws. Bases Ø: 40 - 50 - 60 - 80 mm Threadings: M8 - M10 - M12 - M16

































12.1 Adjustable feet

continues

Levelling feet for ground mounting

Base with slotted holes, steel joint or stem



Base with one or two slotted pass-through holes, threaded joint or stem in zinc-plated notes, threaded joint or stem in zinc-plated steel. Threaded blind joint, with or without no-slip. LMD.F-SL-TV with no-slip in vulcanised rubber (NBR). Bases Ø: 80 mm
Threadings: M8 - M10 - M12 - M16 - M20 - M24

LMD.F-SST

Levelling feet for ground mounting

Base with slotted holes, stainless steel joint or stem



Base with one or two slotted pass-through holes and AISI 304 stainless steel threaded blind joint or AISI 303 stainless steel threaded stem with AISI 304 stainless steel nut. Threaded blind joint, with or without no-slip. Bases Ø: 80 mm Threadings: M8 - M10 - M12 - M16 - M20 - M24

LMR.

Levelling feet

Steel or stainless steel base and stem



Ball joint with threaded hole or stem. NBR rubber no-slip disk. Hexagonal socket on the upper end of the stem and milled flat faces on the underside. AISI 304 stainless steel nut. Bases Ø: 50 - 60 - 80 - 100 - 120 mm Threadings: M8 - M10 - M12 - M16 - M20 - M24

LMR.F

Levelling feet for ground mounting

Steel or stainless steel base and stem



Base with threaded blind joint or threaded stem with hexagonal socket and milled flat faces at the base. Zinc-plated steel or AISI 304 stainless steel anchoring bracket. NBR rubber no-slip disk. Bases Ø: 50 - 60 - 80 - 100 mm Threadings: M8 - M10 - M12 - M16 - M20 - M24

Levelling feet Stainless steel base

and stem



Ball joint with threaded hole or stem. Base with or without NBR rubber no-slip disk. Screw with adjusting hexagon, hexagonal Screw with adjusting nezagon, nezagonal socket and flat faces.

Bases 0: 80 - 100 - 120 mm

Threadings: M8 - M10 - M12 - M16 - M20 - M24

Levelling feet for ground mounting

Stainless steel base and stem



Ball joint with threaded hole or stem, AISI 304 stainless steel base with holes for ground mounting, AISI 303 stainless steel threaded blind stem or ball joint. Screw with adjusting hexagon, hexagonal socket and flat faces. Base with or without no-slip disk. Bases Ø: 80 - 100 - 120 mm Threadings: M8 - M10 - M12 - M16 - M20 - M24

LMRS

Levelling feet

Stainless steel base and stem



NBR rubber no-slip disk, vulcanised to the base. AISI 303 stainless steel adjustable boss and stem. Stainless steel grub screw glued to stem/base.

Bases Ø: 60 - 80 - 100 mm Threadings: M16 - M20 - M24

GN 17

Levelling feet Stainless Steel,

FDA compliant





AISI 304 stainless steel base. Stem with external hexagon, with keyway, or with adjustable thread cover boss. NBR rubber gasket, FDA compliant. Suitable for use in aggressive environments. Bases Ø: 60 - 80 - 100 - 120 mm Threadings: M8 - M10 - M12 - M16 - M20 - M24

GN 18

Levelling feet

AISI 316L stainless steel, FDA compliant



Base in AISI 316L stainless steel. Stem with external hexagon or with keyway. NBR rubber gasket, FDA compliant. Suitable for use in aggressive environments. Bases Ø: 60 - 80 - 100 - 120 mm Threadings: M8 - M10 - M12 - M16 - M20 - M24

GN 19

Levelling feet

AISI 316L stainless steel, Hygienic Design







Base in AISI 316L stainless steel. Stem with adjustable boss. Upper gasket in NBR synthetic rubber. Lower gasket in polyurethane elastomer, FDA compliant. Silicone base gasket, FDA compliant. Suitable for use in aggressive environments. Bases Ø: 80 - 100 - 120 mm Threadings: M12 - M16 - M20 - M24





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12.1 Adjustable feet continues

LM-HD-SST

Levelling feet Hygienic Design

Stainless Steel, Hygienic Design





Edit sentence as below: Bases Ø: 60 - 80 - 100 - 120 mm Threadings: M12 - M16 - M20 - M24

LM.F-HD-SST

Levelling feet Hygienic Design Stainless Steel,





Edit sentence as below:

For use in environments that require high levels of hygiene.

CERTIFIED

Bases Ø: 80 - 100 - 120 mm Threadings: M12 - M16 - M20 - M24

Stainless Steel-Cover sleeves

Stainless steel



GN 20.1



Blue H-NBR or EPDM synthetic rubber packing ring, FDA-compliant.

Stainless Steel-Cover sleeves GN 20.1 are intended for use in hygienic areas. Threadings: M12 - M16 - M20 - M24

NT-HD-SST

Screws and nuts Hygienic Design

AISI 316L stainless steel





NTR-HD-SST Hygienic Design Screws

with low profile head, AISI 316L stainless steel





Threadings: M4 - M5 - M6 - M8 - M10 - M12 -M16 - M20

GN 1582

Hygienic Design retained screws

with low profile head AISI 316L stainless steel





H-NBR or EPDM synthetic rubber packing ring, FDA-compliant.

They are accessories for securing the levelling feet that are designed for use in environments where a high level of hygiene is required. Threadings: M5 - M6 - M8 - M10

NDX.Q

Square end-caps for tubes

Technopolymer



PA

Brass boss, threaded pass-through hole. Threadings: M8 - M10 - M12 - M14 - M16 - M20

Round end-caps for

Technopolymer





Brass boss, threaded pass-through hole. Threadings: M8 - M10 - M12 - M14 - M16 - M20

tubes





Material

· Technopolymer (16)

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12.2 Tube-end caps and

connectors

- Steel (1)
- · Stainless steel (1)

ND.Q

PA

Square end-caps for tubes

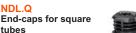
heavy loads. technopolymer



Nickel-plated brass boss, threaded pass-through hole. . Threadings: M8 - M10 - M12 - M16 - M20

tubes

DIN 934 zinc-plated steel nut. 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



Technopolymer









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housing an hexagonal nut DIN 934. Threadings: M6 - M8 - M10 - M12 - M16



12.2 Tube-end caps and connectors continues

End-caps for round tubes

Technopolymer





DIN 934 zinc-plated steel nut. 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. Threadings: M6 - M8 - M10 - M12

GN 349 Reinforcing round end-caps

Steel



Welding black-oxide steel.
They reinforce the structure to which the levelling element is to be fixed when it is a thin sheet and is therefore not sufficiently rigid.
They can be applied also by means of welding.

STC

PA

Square tube connectors

Technopolymer and steel



NOX NULESS PA

Black or grey colour. Monodimensional two-way, bidimensional two, three or four-way, tridimensional three, four, five or six-way connector. With or without zinc-plated or stainless steel reinforcement.

For structures composed of square profiles.

STC-A Square tube connectors

Technopolymer



PA

Two or three-way connector Suitable for the construction of structures consisting of square profiles.

NDA.Q

PA

End-caps for square tubes

with adjustable feet, technopolymer





End-caps for square tubes with adjustable height levelling element Threadings: M12 - M16 - M22

NDA.T End-caps for round tubes

with adjustable feet, technopolymer



PA

End-caps for round tubes with adjustable height levelling element Threadings: M12 - M16 - M22

NDE.Q

PA

Square tube expander end-caps

Technopolymer



DIN 934 zinc-plated steel nuts.
The two parts of the head are connected to each other by means of three pins which are housed in special counter-seats.

Threadings: M8 - M10 - M12

PA

NDE.T

end-caps

Technopolymer

Round tube expander



DIN 934 zinc-plated steel nuts. The two parts of the head are connected to each other by means of three pins which are housed in special counter-seats.

Threadings: M8 - M10 - M12

NIL

PΕ

Ribbed tube end plugs

Polyethylene



For square, rectangular or round tubes. They can be fitted to the ends of round-, square- or rectangular- section tubes or profiles by hand or with a mallet.

NCT

Protective caps for tubes

Polyethylene





Insertion at the ends of the tubes can be done by hand or with a mallet.

Diameters: from 4 to 114.3 mm





12.2 Tube-end caps and connectors

continues

Protection covers for nuts and bolts







Black or chrome, matte finish. The coupling on nuts or bolts can be made either by hand or by a mallet. Internal diameters: from 6.9 to 45.8 mm

Round tube expander connectors

Technopolymer



The two parts of the connector are connected to each other by means of two pins which are housed in special counter-seats.







































STE

Square tube expander connectors

Panel support clamps

Technopolymer

Technopolymer





The two parts of the connector are connected to each other by means of two pins which are housed in special counter-seats.

PΑ Thermoplastic elastomer pads, overmoulded.

Technopolymer compensation shims for

adapting the support clamp to panels of

The panel assembly into the clamp require no

Support clamp for panels and electro-welded mesh mounting of the panel

without drilling, SUPER-Technopolymer







Standard executions: for the mounting of panels or electro-welded mesh, with or without vibration-damping pads.

For square profiles of 25, 30 mm or 1". Safety in accordance with ISO 13857.

12.3 Panel support brackets



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Material

- Technopolymer (3)
- · Stainless steel (1)

GN 939

drillina.

Panel support clamps

for Glass and Plastic Panels, die-cast zinc alloy

varying thickness.





GN 939 clamps are used to fix glass, plastic, or other material panels. Both corner and centre clamps are available.

The panels are locked between rubber inserts. It is also possible to select the type of locking in the version with fixing pin or stop plate.

Adapter for PC support clamp for round tubes

for PC support clamp, technopolymer



Kit for installation of PC support clamp on round tubes (max. thickness = 2 mm). The kit includes a technopolymer adapter, a M6 zinc-plated steel threaded insert to be installed with a normal riveting tool on the tube and an M6 cylinder-head screw.

GN 938.1

T-Nuts

for Panel Support Clamps GN 939



Die-cast zinc alloy. Accessories for the GN 939 panel support clamps.

When attaching the clamp to aluminium profile systems, centre the T-Nuts and position the clamps. Depending on their orientation, the T-Nuts can be used in slots of different widths.







12.4 Connecting clamps



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Material

- Steel (3)
- · Stainless steel (6)
- · Aluminium (13)
- · Die-cast zinc alloy (2)
- Zinc (1)

Threaded connections

Aluminum

X



Zinc-plated steel casting, epoxy resin coating. They are generally used in connection with 30/40 mm aluminium profiles, to allow elements such as levelling feet to be assembled in different positions.

Support base with screw-covers in standard colours. Locking by means of M6 cap screws. Aluminium profile tubes in standard lengths

positioning of photocells or other devices on

from 100 to 2000 mm. They allow the

Threadings: M6 - M8 - M10 - M12

Connecting clamps

Technopolymer and

aluminium

feet

Zinc alloy

Connecting clamps Technopolymer

Simple or extensible











Locking by means of M6 cap screws. The profile of the holes is designed to fit both tubes with round and square cross section; the latter prevents the elements from rotating For positioning of photocells or other devices on the packaging lines.

Assembly by means of M4 screws and nuts. They are generally used on equipment subject

to particular stresses, when safety locking is

required in both the retracted and extended

position by the safety slider (red).

- · Technopolymer (4)

MSM-RM

ND

Magnetic bases

for MSM connecting clamps, steel and rubber

the packaging lines.





MSM-RM magnetic bases are shielded magnetic systems with high performances and moderate overall dimensions. Threadings: M4 - M5 - M6

MSM-B

Base for connecting clamps

Aluminum





Black or natural colour. Clamping by means of cylindrical head screws with AISI 304 stainless steel hexagon socket. The profile of the holes is designed to fit both tubes with round and square cross section; the latter prevents the elements from rotating. Holes Ø: 8 - 10 - 12 - 15 - 16 - 20 mm

MSM-BS

Bases for pivoting connecting clamps Aluminum





Black or natural colour. The MSM-BS bases for pivoting connecting clamps are designed for use with twistable two-way connecting clamps.

MSM-C

Two-way connecting clamps

Aluminum



Black or natural colour. Clamping by means of cylindrical head screws with AISI 304 stainless steel hexagon socket.

MSM-F

Clamps for connecting plates

Aluminum



Black or natural colour. Clamping by means of cylindrical head screws with AISI 304 stainless steel hexagon socket. The MSM-F connecting clamps are designed for use with the MSM-LA and MSM-LB sensor holders. Holes Ø: 8 - 10 - 12 - 15 - 16 - 20 mm

MSM-FR

Pivoting clamps for connecting plates

Aluminum



Black or natural colour. The MSM-FR connecting clamps are designed for use with the MSM-LA and MSM-LB sensor holders.





12.4 Connecting clamps continues

MSM-G Pivoting connecting clamps

Aluminum

MSM-HR

clamps Aluminum



Black or natural colour. Clamping by means of cylindrical head screws with AISI 304 stainless steel hexagon socket. Holes Ø: 8 - 10 - 12 - 15 - 16 - 20 mm

Pivoting connecting

Black or natural colour. Clamping by means of cylindrical head screws with AISI 304 stainless steel hexagon socket. With G8 hole tolerance or with zinc-plated steel pin tolerance h9

Holes Ø: 8 - 10 - 12 - 15 - 16 - 20 mm

MSM-PH Connecting clamps Aluminum



Black or natural colour. Clamping by means of cylindrical head screws with AISI 304 stainless steel hexagon socket. Holes Ø: 8 - 10 - 12 - 15 - 16 - 20 mm

MSM-LB Connecting plates Stainless steel



In the MSM-LB-30 brackets, the cross slot allows a more precise fixing adjustment to the MSM-F connecting clamps and the use of 2 grub screws.

MSM-Q Square connecting tubes





Without graduations or with laser-etched precision graduations (mm). Sections: 10 - 12 - 16 mm

Connecting clamps Aluminum



Black or natural colour. Clamping by means of cylindrical head screws with AISI 304 stainless steel hexagon socket. Holes Ø: 8 - 10 - 12 - 15 - 16 - 20 mm

Connecting clamps Aluminum



Black or natural colour. Holes Ø: 8 - 10 - 12 - 15 - 16 - 20 mm

MSM-LA Sensor holders

Stainless steel



In the MSM-LA-30 brackets, the cross slot allows a more precise fixing adjustment to the MSM-F connecting clamps and the use of 2 arub screws

MSM-P Flanged bolts



They are used in combination with connecting clamps with the function of support foot or

Holes Ø: 8 - 10 - 12 - 15 - 16 - 20 mm

MSM-R Pivoting connecting clamps

Aluminum



Black or natural colour. Clamping by means of cylindrical head screws with AISI 304 stainless steel hexagon socket. With clamp hole axis perpendicular or coaxial to the fixing hole. Holes Ø: 8 - 10 - 12 - 15 - 16 - 20 mm













































12.4 Connecting clamps continues

Connecting tubes and bars

Stainless steel



Without graduations or with laser-etched precision graduations (mm). Bar for $\emptyset = 8$ and 10 mm; tube for $\emptyset = 12$, 16 and 20 mm

Connectors

Stainless steel

They are suitable for use with the different types of MSM connecting clamps.

They make it possible to create compact and space-saving mounting structures efficiently and economically with few components. Diameters: 8 - 10 mm

MSM-TS Connectors

Stainless steel





They are suitable for use with the different types of MSM connecting clamps. They make it possible to create compact and space-saving mounting structures efficiently and economically with few components.

MSM-TW Pivoting connecting clamps Aluminum



AISI 304 stainless steel screw and lock nut or GN 300.1 adjustable handle for clamping. They allow the clamping of tubes or shafts. The special prism shape of the clamping parts facilitates adaptation to the tube or shaft diameter.

MSM-TW-NI **Pivoting connecting** clamps

Stainless steel



AISI 304 stainless steel locking screw and nut or GN 300.5 adjustable handle for clamping. Suitable for fixing tubes or shafts. The particular prism shape of the clamping parts makes it easier to adapt to the diameter of the tube or shaft.

GN 511 Clamping kit for connecting clamps

Zinc allov and stainless steel



Die-cast zinc alloy lever, epoxy resin coating, RAL 9006 silver colour.

Clamping element, threaded pin and spacer boss in AISI 303 stainless steel. Dimensions: 30 - 45 mm

GN 511.1

Clamping kit for pivoting connecting clamps

Zinc alloy and stainless steel



AISI 304 stainless steel screw. AISI 303 stainless steel threaded bushing and distance bushing. Die-cast zinc alloy lever, epoxy resin coating.

Clamp, threaded pin in AISI 303 stainless steel. Dimensions: 16 -20 - 25 - 30 - 45 mm

12.5 Conveyor components



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BAG2-120 Conveyor bipod support base

two arms. Technopolymer





Zinc-plated or AISI 304 stainless steel M10 screws, nuts and washers.

The two base supports are provided with brass bosses, threaded pass-through hole for screwing in the stem.

Tube housing holes Ø: 42 - 48 - 50 - 60 mm

BAG2-180

Conveyor bipod support base

two arms. Technopolymer





Zinc-plated or AISI 304 stainless steel M10 screws, nuts and washers.

The two base supports are provided with brass bosses, threaded pass-through hole for screwing in the stem.

Tube housing holes Ø: 42 - 48 - 50 - 60 mm





12.5 Conveyor components continues



Material

- Technopolymer (32)
- Steel (1)
- Stainless steel (22)
- · Aluminium (4)

Conveyor bipod support base

two arms, Technopolymer





Zinc-plated or AISI 304 stainless steel M10 screws, nuts and washers. Assembly on series LS.A, LV.A, LV.F levelling elements. The two base supports are provided with brass bosses, threaded pass-through hole for screwing in the stem. Tube housing holes \varnothing : 42 - 48 - 60 mm

Connection joints Technopolymer



M8 cylindrical-head screws with hexagon socket and zinc-plated or AISI 304 stainless steel nuts

Tube housing holes Ø: 42 - 48 - 50 - 60 - 45x45 mm

Conveyor bipod support base

three arms Technopolymer





Zinc-plated or AISI 304 stainless steel M10 screws, nuts and washers. Assembly on series LS.A, LV.A, LV.F levelling elements.
The three bearings of the base are supplied with

brass bosses, threaded pass-through hole for the assembly of the stem. Tube housing holes \varnothing : 42 - 48 - 50 - 60 - 45x45 mm

Guide rail clamps

Technopolymer





MPG-S



Guide rail clamps

Technopolymer and

PA

guides. Pin Ø: 12 - 14 - 16 mm

Guide rail brackets

for linear positioning, technopolymer

PΑ

stainless steel

AISI 304 stainless steel cylindrical head screws with hexagon socket, nickel-plated brass nuts. Housing for round, trapezoidal or rectangular

With or without AISI 304 stainless steel pin.

AISI 304 stainless steel screws and clamping

Housing for round, trapezoidal or rectangular

AISI 304 stainless steel eye screw and washer.















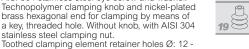












MPG-2

Guide rail clamps Technopolymer and

stainless steel



With or without AISI 304 stainless steel pin. AISI 304 stainless steel washers, screws and clamping nuts.

Housing for round, trapezoidal or rectangular

guides. Pins Ø: 12 - 14 - 16 mm

MPG-P

Guide fixing pins

Stainless steel



Execution with threaded hole or with threaded pin. Generally used in combination with the MPG-R-AZ, MPG-R-SST, MPG-S guide rail clamps or the PRA-GLB, PRB-GLB profiles for fixing the side guides to the SPR. and SPR.V quide rail brackets.

Guide rail brackets

for linear and angular positioning, technopolymer



Eye screw, AISI 304 stainless steel nut and washer.

With or without support edge. Pin Ø: 12 - 14 - 16 mm

SPR.V

14 - 16 mm

Guide rail brackets

stainless steel clamping nut.

for linear and angular positioning, technopolymer





AISI 304 stainless steel eye screw and washer. Technopolymer clamping knob and hexagonal head in nickel-plated brass for tightening by means of a key, threaded hole. With or without support edge. Pin Ø: 12 - 14 - 16 mm



12.5 Conveyor components continues

Side mounting top brackets Technopolymer





Zinc-plated or AISI 304 stainless steel M10 screws, nuts and washers. Tube housing holes Ø: 48 mm

Side mounting top brackets

Technopolymer





Zinc-plated or AISI 304 stainless steel M10 screws, nuts and washers Tube housing holes Ø: 42 - 48 - 60 - 45 mm

Support headers

Technopolymer



Zinc-plated or AISI 304 stainless steel M10 screws, nuts and washers. Tube housing hole Ø: 48 mm

Support headers

Technopolymer







Zinc-plated or AISI 304 stainless steel M10 screws, nuts and washers.

Tube housing holes Ø: 42 - 48 - 50 - 60 - 45 mm

Roller side guides

Technopolymer, aluminium, stainless steel







Profile in anodised aluminium. Technopolymer pin and roller support. AISI 304 stainless steel pins. With cylindrical or contoured rollers, spherical or cylindrical contact zone.

They serve to guide products with limited vertical dimensions laterally on the conveyor belts.

GLA-2

Roller side guides Technopolymer,

aluminium, stainless steel









Profile in anodised aluminium. Technopolymer pin and roller support. AISI 304 stainless steel pins. With cylindrical or contoured rollers, spherical or cylindrical contact zone.

They serve to guide products with larger vertical dimensions laterally on the conveyor belts.

Roller central guides Technopolymer,

aluminium, stainless steel







Profile in anodised aluminium. Technopolymer pin and roller support. AISI 304 stainless steel pins. With cylindrical or contoured rollers, spherical or cylindrical contact zone. They serve to guide products with limited vertical dimensions on the conveyor belts from both sides.

Roller central guides

Technopolymer, aluminium, stainless steel







Profile in anodised aluminium. Technopolymer pin and roller support. AISI 304 stainless steel pins. With cylindrical or contoured rollers, spherical or cylindrical contact zone. They serve to guide products with larger vertical dimensions on the conveyor belts from both sides.

End brackets for side guides

Technopolymer, stainless steel





AISI 304 stainless steel screw and nut. It is used as a closure at the ends of the GLA-1 side guides.

MPG-V

Hammer head screw

PRB guides, steel or stainless steel



Used to join the different types of side guides to the MPG-P fixing pins.



152









For GLA, GCA, PRA and



12.5 Conveyor components continues

Connecting plate for guides

for GLA and GCA, steel



Edit the sentence below Zinc-plated steel or AISI 304 stainless steel bar and screws.

Separation block for side guides

for GLA-1, Technopolymer, stainless steel





PE

Screw and nuts with threadlocking in AISI 304 stainless steel.

It is used at the ends of the GLA-1 side guides.





































PGL-2

Separation block for side guides

for GLA-2, Technopolymer, stainless steel



Screw and nuts with threadlocking in AISI 304 stainless steel.

It is used at the ends of the GLA-2 side guides.

PGC-2

Separation block for central guides

for GCA-2, Technopolymer, stainless steel



Screw and nuts with threadlocking in AISI 304 stainless steel.

It is used at the ends of GCA-2 central guides.

PGC-4

Separation block for central guides

for GCA-4, Technopolymer, stainless steel





Screw and nuts with threadlocking in AISI 304 stainless steel.

It is used at the ends of GCA-4 central guides.

GLD-AZ

Roller side guides





Guide rails with one, two, three, or four rows of rollers. Zinc-plated steel profile. Pin and roller support in acetal-based technopolymer. AISI 304 stainless steel pins. With shaped rollers, cylindrical contact area. The self-supporting structures are particularly solid, suitable for handling products of significant weight and size.

MPG-R-AZ

Guide rail clamps

for GLD-AZ side guides,



Zinc-plated steel. Clamps for one, two, three, or four-way roller quides.

Roller side guides

stainless steel





Guide rails with one, two, three, or four rows of rollers.AISI 304 stainless steel profile. Pin and roller support in acetal-based technopolymer. AISI 304 stainless steel pins. With shaped rollers, cylindrical contact area. The self-supporting structures are particularly solid, suitable for handling products of significant weight and size.

MPG-R-SST

Guide rail clamps

for GLD-SST side guides, stainless steel



AISI 304 Stainless Steel Clamps for one, two, three, or four-way roller guides.

Articulated side guides

Technopolymer, stainless steel







Self-supporting structure and technopolymer rollers. AISI 304 stainless steel pins. With cylindrical or contoured rollers, spherical or cylindrical contact zone. They serve to guide products with limited vertical dimensions laterally on the conveyor belts.



12.5 Conveyor components continues

GLB-2 Articulated side guides

Technopolymer, stainless steel







Self-supporting structure and technopolymer rollers. AISI 304 stainless steel pins. With cylindrical or contoured rollers, spherical or cylindrical contact zone. They serve to guide products with larger vertical dimensions laterally on the conveyor belts.

PRB-GLB Profile for side guides

for GLB, stainless steel



It is used to secure the GLB-1 and GLB-2 side guides.

It is supplied in undrilled bars of 1.5 and 3 metres length.

GLP-HT

Linear guide rail, high temperature

Flat profile, technopolymer, stainless steel







Technopolymer guide profile. AISI 304 stainless steel bracket. It is used to guide laterally, on the conveyor belts, products with different dimensions in environments where resistance to higher temperatures is required, such as ovens, fryers, steam rooms.

Linear guide rail

Shaped profile, technopolymer, stainless steel



HMWPE

Technopolymer guide profile. AISI 304 stainless steel bracket. It is used to guide products with different dimensions laterally on the conveyor belts, without leaving traces on the containers.

Wide guide rails

Shaped profile, technopolymer



HMWPE

They serve to guide products with various

PRA-GLB

Profile for side guides

for GLB, stainless steel





It is supplied in undrilled bars of 1.5 and 3 metres length, to allow the fixing holes to be drilled directly during installation.

Linear guide rails

Flat profile, technopolymer. stainless steel



HMWPE

Technopolymer guide profile. AISI 304 stainless steel bracket. Contact surface width approximately 12 or 32 mm. The guide rails are used for the side guide of products with different dimensions on conveyor belts, without leaving traces on the containers.

Linear guide rail

Round profile R20, technopolymer, stainless steel





Technopolymer guide profile. AISI 304 stainless steel bracket. It is used to guide laterally very unstable products, such as bottles or cans, on the conveyor belts, avoiding rotation and without leaving traces on the containers.

Linear guide rail

Round profile R7, technopolymer, stainless steel





Technopolymer guide profile. AISI 304 stainless steel bracket. It is used to guide products with good stability laterally on the conveyor belts, without leaving

traces on the containers.



With a 20 or 40 mm stop.

vertical dimensions laterally on the conveyor belts.



12.6 Support bearings



elesa.com

Material

Technopolymer (4)

Support bearings square flanged, technopolymer



AISI 304 stainless steel bushings and washers. High quality chrome steel bearing. Technopolymer closed or drilled cover for pass-through shafts. Shaft diameters: 25 - 30 mm

UCFL

Oval flanged support bearings



Technopolymer





AISI 304 stainless steel bushings and washers. High quality chrome steel bearing. Technopolymer closed or drilled cover for pass-through shafts. Shaft diameters: 25 - 30 mm

12.7 Angle brackets for profile structures



elesa.com

Material

- Technopolymer (1)
- Steel (1)
- · Aluminium (3)

Angle brackets for profile structures Technopolymer







Two slots for M8 screws; two holes for M8 screws and centring slides; slot and holes for M8 screws. Technopolymer covers are available on request. For the assembly of structures made out of aluminium profiles in a very easy way. Dimensions: 40 - 43 mm

SQMF

Angle brackets for profile structures . Aluminum



Natural colour or black or grey epoxy resin coating. Technopolymer closing cap. Mounting by means of zinc-plated steel screws and inserts.

Dimensions: 30 - 40 mm

Side flanged support bearings

Technopolymer







AISI 304 stainless steel bushings and washers. High quality chrome steel bearing. Technopolymer closed or drilled cover for pass-through shafts. Shaft diameters: 25 - 30 mm

Oval flanged support bearings for shafts at 90°

Technopolymer





Bosses, washers and stop ring in AISI 304 stainless steel.

High quality chrome steel bearing. Technopolymer closed or drilled cover for pass-through shafts. Shaft diameters: 25 - 30 mm

SQMA

Angle brackets for profile structures Aluminum





Natural colour or black or grey epoxy resin coating. Technopolymer closing cap. Assembly by means of zinc-plated steel screws, nuts and washers.

Dimensions: 30 - 40 - 45 mm

GN 970 Brackets

Aluminium or steel



Drawn, sharp-edged black-oxide steel or aluminium, matte finish.

Standard versions with or without holes, or with holes and slotted holes.







































Conveyor components

Elesa conveyor components enable the **construction of robust support** and **containment structures**, ensuring **smooth product guidance across industrial production lines** in bottling, packaging, and material handling. An ever-expanding range of conveyor belt components.











A wide range of engineering plastic and metal hinges, including technopolymer, SUPER-Technopolymer, aluminium, and stainless steel, available with various assembly options, rotation angles, load capacities, and integrated safety switches.

Elesa offers various hinges equipped with additional functions in addition to the simple basic operations of opening and closing machine doors or guards.

▼Friction or detent hinges

Designed to hold doors or hatches in a specific position, or to regulate the opening/closing force.

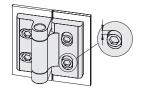
- Hinges with adjustable friction allow a rotational movement with braking torque in both directions.
- Hinges with friction brake by means of a retractable handle that allows for rapid torque adjustment even without the use of tools.
- **Detent hinges.** They have the ability to stop the rotation of the hinge in preset positions and lock the door.



■ Adjustable hinges

They correct off-sets and misalignments, **optimising the opening and closing** of the door.

They prevent premature wear of components and extend the life of the construction.



■ Hinges for narrow jambs

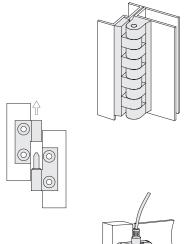
Hinges composed of **two bodies of different sizes**, designed for structures with narrow jambs and/or narrow doors where the **space** for mounting the hinges is **limited**.

■ Lift-off hinges

Ideal for doors that require frequent disassembly and reassembly. Also available with a **mechanical brake system** to prevent accidental lifting or sliding of the door and also suitable for **mounting** on **aluminium profiles**.



Hinges with **built-in safety switch** are safety devices that automatically **cut off the power supply** in order to **protect** the operator in cases of accidental opening of machine doors or guards. With **IP66 or IP67 protection class**, they are ideal for equipment subject to frequent washing in industrial environments. Compact size, mounting options, and cable outlet/power connector make installation on aluminium profiles easy.





















































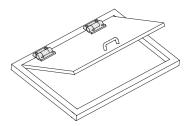






Spring hinges and shock absorbing hinges

- Spring hinges: ideal for the automatic opening and closing of doors, they are equipped with an internal torsion spring that, when the door is opened, is compressed generating a torque opposite to the movement in progress. Once the door is released, the hinge returns to its initial position.
- Hinges with shock absorbers: reduce the closing or opening speed of doors with a vertical or horizontal axis by means of an internal shock absorber. The damping torque varies progressively with the rotation of the hinge.



13.1 Hinges



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Material

- · Technopolymer (34)
- Steel (1)
- · Stainless steel (11)
- Aluminium (5)
- · Die-cast zinc alloy (5)

Type of assembly

- · Blind hole (8)
- · Blind holes -Threaded screws (2)
- · Pass-through hole (51)
- · Pass-through holes -Blind holes (3)
- · Pass-through holes -Threaded screws (4)
- · Threaded screw (11)

Hinges with screw-covers

Technopolymer



PA

Technopolymer rotating pin. Technopolymer screw-covers, black, polished finish, snap-on assembly. Assembly by means of pass-through holes for countersunk head, cylindrical head, hexagonal head screws or nuts. Rotation angle: max 200° (-20° and +180° being 0° the condition where the two interconnected surfaces are on the same plane). Dimensions: 40 - 49 - 65 mm

CFTX-PP

Hinges

Technopolymer (polypropylene)



PP

AISI 303 stainless steel or grade 2 titanium rotating pin. Mounting via pass-through holes for flat countersunk-head screws. Rotation angle: max 200° (-20° and +180° being 0° the condition where the two interconnected surfaces are on the same plane). Dimensions: 40 - 49 - 65 mm

Hinges

PΑ

Technopolymer





AISI 303 stainless steel rotating pin. Mounting by means of nickel-plated brass bosses, threaded hole; nickel-plated steel threaded studs; pass-through holes and slots (CFA-SL) for cylinder head screws Max. rotation angle 215° (-35° and +180° with 0° = coplanarity of surfaces). Dimensions: 40 - 49 - 65 - 97 mm

CFAX-IP

Hinges with packing ring

Protection rating up to IP69K, technopolymer



Technopolymer rotating pin.
Mounting via nickel-plated brass bosses with threaded hole or nickel-plated steel threaded with 0° = coplanarity of surfaces).

CFTX.

Hinges

Technopolymer (polyamide)



PA

Technopolymer rotating pin. Assembly by means of pass-through holes for countersunk head, cylindrical head, hexagonal head screws or nuts. Rotation angle: max 200° (-20° and +180° being 0° the condition where the two interconnected surfaces are on the same plane). Dimensions: 40 - 49 - 65 mm

CFQ.

Hinges with screw-covers

Technopolymer





Technopolymer rotating pin. Technopolymer screw-covers, black, polished finish, snap-on assembly. Assembly by means of pass-through holes for countersunk head, cylindrical head, hexagonal head screws or nuts. Rotation angle: max 195° (-15° and +180° being 0° the condition where the two interconnected surfaces are on the same plane). Dimensions: 50 mm

Hinges

Technopolymer rotating pin



Technopolymer rotating pin. Mounting by means of nickel-plated brass bosses with threaded hole, pass-through holes for flat countersunk or cylinder head screws, or threaded studs.

Max. rotation angle 215° (-35° and +180° with 0° = coplanarity of surfaces). Dimensions: 40 - 49 - 65 mm

False hinge with single body

For CFA. and CFAX. hinges





Mounting via pass-through holes for flat countersunk-head screws



studs. Max. rotation angle 215° (-35° and +180° Dimension: 49 mm



13.1 Hinges continues

Hinges with detent position at 95°

Technopolymer



PA

AISI 303 stainless steel rotating pin Mounting by means of nickel-plated brass bosses with threaded hole, pass-through holes for flat countersunk or cylinder head screws

Max. rotation angle 100° (-10° and +95° with 0° = coplanarity of surfaces). Dimensions: 49 - 65 mm

CFM.

Hinges

SUPER-technopolymer







AISI 303 stainless steel rotating pin. Mounting by means of steel threaded studs; pass-through holes for countersunk or cylinder head screws; slots with pass-through hole for cylinder head screws, slots with pass-through hole for cylinder head screws. Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces).

Dimensions: 30 - 40 - 50 - 60 mm

CFMX

Hinges

SUPER-technopolymer rotating pin









SUPER-technopolymer rotating pin. Mounting via pass-through holes for flat countersunk head screws or cylinder head screws with washer. Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces). Dimensions: 30 - 40 - 50 - 60 mm

CFM-VD

Hinges

Visually Detectable technopolymer









Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). AISI 303 stainless steel rotating pin. Mounting via pass-through holes for flat countersunk-head screws. Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces). Dimensions: 40 - 50 mm

CFMQ

Hinges

SUPER-technopolymer

PA





AISI 303 stainless steel rotating pin Mounting via pass-through holes for cylinder head screws with washer

Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces). Dimensions: 60 mm

Hinges

Technopolymer



PΑ

AISI 303 stainless steel rotating pin Mounting via pass-through holes for cylinder head screws

Max. rotation angle 200° (-20° and +180° with 0° = coplanarity of surfaces). Dimensions: 102 mm

CFM-AE-V0

Hinges

Technopolymer certified self-extinguish







AISI 303 stainless steel rotating pin. Mounting with pass-through holes for countersunk head screws. Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces). Dimensions: 30 - 40 - 50 - 60 mm

CFM-CLEAN

Hinges

SUPER-technopolymer











AISI 303 stainless steel rotating pin Mounting via pass-through holes for flat countersunk-head screws Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces). Dimensions: 30 - 40 - 50 - 60 mm

CFM-MD

Hinges

Metal Detectable technopolymer











Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). AISI 303 stainless steel rotating pin Mounting via pass-through holes for flat countersunk-head screws. Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces). Dimensions: 40 - 50 mm

CFMQ-AE-V0

Hinges

Technopolymer certified self-extinguish









AISI 303 stainless steel rotating pin. Mounting with pass-through holes for countersunk head screws. Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces). Dimension: 60 mm









































13.1 Hinges

continues

Horizontally elongated hinges









AISI 303 stainless steel rotating pin. Mounting via pass-through holes for flat countersunk-head screws. Hinge bodies with the same or different dimensions. Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces). Dimensions: 50 - 60 mm

CFM-TR-G

Hinges for mounting on glass or panels SUPER-technopolymer







AISI 303 stainless steel rotating pin. Mounting on the jamb side via pass-through holes with housing for flat countersunk screws and passthrough hole on the panel side with housing for a round-headed screw. Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces). Dimensions: 40 - 50 - 60 mm

Spring hinges

PA

for automatic return, SUPER-technopolymer





Aluminium rotating pin. Assembly by means of pass-through holes for cylindrical head screws M6. 0.20, 0.35, 0.70 or 1 Nm return torques for automatic door closing/opening. Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surface). Dimensions 6.7 mm of surfaces). Dimensions: 67 mm

CMMR

Spring hinges

for automatic return, zinc alloy





Epoxy resin body coating. 0.75 or 1.00 Nm return torques for automatic door closing/opening.

Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces). Dimensions: 60 mm

CFMW-AE-V0

| | |

Hinges

Technopolymer certified self-extinguish





AISI 303 stainless steel rotating pin. These hinges can be assembled with CFSW. hinge with safety switch. Assembly by means of pass-through holes for countersunk-head, cylindrical head screws or hexagonal nuts. Max. rotation angle 180° (-0° and +180° with 0° = coplanarity of surfaces). Dimensions: 70 - 110 mm

CFM-SL

Hinges

SUPER-technopolymer









AISI 303 stainless steel rotating pin. Mounting by means of slots with pass-through hole with housing for lowered cylinder head screws. Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces). Dimensions: 60 mm

CMM-TR-SST

Hinges

Stainless steel







AISI 303 stainless steel rotating pin. Mounting Also 3 startness steer rotating pin. Mounting with pass-through holes for countersunk head screws. Hinge body on jamb side identical to or different from hinge body on door side.

Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces).

Dimensions: 40 - 50 - 60 mm

Hinges with shock absorber

for soft opening and closing, technopolymer





Assembly by means of pass-through holes for cylindrical head screws. It is used to cushion the closing or opening of doors with a vertical or horizontal axis using the shock absorber. Final damping torque 0.8 or 3.0 Nm. Max. rotation angle 110° (0° and +110° with 0° = coplanarity of surfaces). Dimension: 67 mm

CFMW.

Hinges

SUPER-technopolymer









These hinges can be assembled with CFSW. hinge with safety switch. Assembly by means of pass-through holes for countersunk-head, cylindrical head screws or hexagonal nuts. Max. rotation angle 180° (-0° and +180° with 0° = coplanarity of surfaces). Dimensions: 70 - 110 mm

CFH. Hinges

Technopolymer





AISI 303 stainless steel rotating pin Mounting via pass-through holes for cylinder head screws

Max. rotation angle 275° (-95° and +180° with 0° = coplanarity of surfaces). Dimensions: 50 mm







13.1 Hinges continues

Tamperproof hinges Technopolymer





AISI 303 stainless steel rotating pin, totally moulded in the hinge body. Mounting by means of bosses with threaded hole, pass-through holes with housing for hexagonal head screws, or threaded studs. Max. rotation angle 275° (-95° and +180° with 0° = coplanarity of surfaces). Dimensions: 50 mm

CFC. Thin hinge

Technopolymer



PA

Technopolymer rotating pin. Mounting via pass-through holes with housing for 4.8 mm diameter self-tapping screws with flat countersunk head. Max. rotation angle 325°. Depending on the type of mounting, the angle of rotation of the door may be smaller. Dimensions: 55 mm

Hinges for profiles

Technopolymer







Technopolymer centring inserts for profiles with groove sizes from 6 to 12 mm. Mounting via pass-through holes with housing for M6 flat countersunk-head screws. Max. rotation angle 280° (-100° and +180° with 0° = coplanarity of surfaces). Dimensions: 36 mm

CMUM

Hinges

Die-cast zinc alloy



Epoxy resin body coating. Guide elements in acetal-based technopolymer (POM). Mounting via pass-through holes with housing for flat countersunk-head screws. Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces). Dimensions: 60 mm

CMM-L

Horizontally elongated hinges

Die-cast zinc alloy





Mounting via pass-through holes with housing for flat countersunk-head screws or threaded studs in AISI 316 stainless steel. Hinge bodies with the same or different dimensions. Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces). Dimensions: 50 - 60 mm

CFJ-AE-V0

Tamperproof hinges Technopolymer certified







AISI 303 stainless steel rotating pin, totally moulded in the hinge body. Mounting using bosses with threaded holes or threaded studs. Max. rotation angle 275° (-95° and +180° with 0° = coplanarity of surfaces). Dimension: 50 mm

CFE.

Hinges





AISI 303 stainless steel rotating pin. Mounting by means of bosses with threaded hole, threaded studs or pass-through holes with housing for cylinder head screws. Max. rotation angle 200° (-80° and +120° with 0° = coplanarity of surfaces). Dimensions: 30 - 40 - 48 - 66 mm

Double hinges for profiles

Technopolymer









Technopolymer centring inserts for profiles with groove sizes from 6 to 12 mm. Mounting via pass-through holes with housing for M6 flat countersunk-head screws. Max rotation angle 260°/275° (-95° and +165°/180° with 0° being the condition of coplanarity of surfaces). Dimensions: 36 mm

CMM.

Hinges

Die-cast zinc alloy



AISI 303 stainless steel rotating pin. Mounting Also 305 stainless steet rotating pin. Mourning via pass-through holes with housing for flat countersunk-head screws or threaded studs in AISI 304 stainless steet. Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces). Dimensions: 30 - 40 - 50 - 60 mm

CMM-SST

Hinges

Stainless steel





AISI 316 stainless steel rotating pin. Mounting via pass-through holes with housing for flat countersunk-head screws Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces).
Dimensions: 30 - 40 - 50 - 60 mm











































13.1 Hinges continues

CMM-BL Hinges Aluminum



AISI 303 stainless steel rotating pin Mounting via pass-through holes with housing for flat countersunk-head screws Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces). Dimensions: 30 - 40 - 50 - 60 mm

CHG.

Concealed hinge SUPER-technopolymer



AISI 304 stainless steel rotating pin. Mounting with pass-through holes using studs with nuts, or cylinder head screws with washer UNI 6592. To be used with doors and jambs of boxed structures in folded sheet metal. Max. rotation angle 180° (-90° and +90° with 0° = coplanarity of surfaces). Dimension: 80 mm

GN 7241 Jointed hinges

concealed, opening angle alluminio 90°, aluminium



Profile in aluminium or anodised aluminium, natural colour. They are installed on the inside of doors and hatches to save space and ensure protection against vandalism.

GN 7243

Jointed hinge

concealed, opening angle 120°, aluminium



Profile in aluminium or anodised aluminium,

They are installed on the inside of doors and hatches to save space and ensure protection against vandalism.

GN 7247

Jointed hinge

concealed, opening angle 180°, aluminium



Profile in aluminium or anodised aluminium, natural colour.

They are installed on the inside of doors and hatches to save space and ensure protection against vandalism.

CMM-AL Hinges

Aluminum



AISI 304 stainless steel rotating pin.
Mounting via pass-through holes with housing for flat countersunk-head screws
Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces). Dimensions: 30 - 40 - 50 - 60 mm

GN 7231

Jointed hinges

concealed, opening angle 90°, stainless steel



AISI 304 stainless steel, ground or with matte

Right or left fixing angle.

They are installed on the inside of doors and hatches to save space and ensure protection against vandalism.

GN 7233

Jointed hinges

concealed, opening angle 120°, stainless steel





AISI 304 stainless steel, ground or with matte

Right or left fixing angle. They are installed on the inside of doors and hatches to save space and ensure protection against vandalism.

GN 723

Jointed hinges

concealed, opening angle 180°, stainless steel





Self-lubricating bronze friction bearings. Available for left or right fixing. Opening angle max. 180°. Dimensions: 40 - 50 - 60 mm

GN 7247.2

Plates for jointed hinges

for fixing GN 7241, GN 7243, GN 7247 hinges, stainless steel





AISI 304 stainless steel or with matte finish. Allow adjustment in the third plane during mounting. Shimmed individually or in combination, they guarantee the height compensation or the desired position on the fixing surfaces. Dimension: 60 mm





13.1 Hinges continues

stainless steel

Plates for jointed hinges with tapped holes, for fixing GN 7241, GN 7243, GN 7247 hinges,





AISI 304 stainless steel or with matte finish. They are fixed from the outside, using the pass-through holes in the wall of the housing body or alternatively they are welded to the inside of the wall. This provides effective protection against vandalism. Dimensions: 60 - 75 mm

GN 2376

Plates for jointed hinges

for fixing GN 7237 hinges in stainless steel





Accessory for GN 7237 jointed hinges. They can be fixed externally via pass-through holes in the housing wall or alternatively via welding inside the structure.

PCM-SP

Spacer plates for hinges

Stainless steel





They allow mounting of CFM, CMM, CMM-ST and CMMY when the mounting surfaces are not coplanar between the frame and the door.

PCM-LS

Limit stop spacers

for hinges

Steel



NBR rubber end element, hardness 85 in tolerance ±5 Shore A, black.

They allow mounting of CFM, CMM, CMM-ST and CMMY by limiting the rotation angle to

13.2 Friction and detent hinges



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Detent hinges Technopolymer



Mounting via pass-through holes with housing for flat countersunk-head screws or hexagonal head screws. The locking device allows the door to be stopped in 4 positions: -90°, 0°, 70° and 115°. Max. rotation angle 210° (-90° and +120° with 0° = coplanarity of surfaces). Dimensions: 65 mm

Plates for jointed hinges with threaded studs, for fixing GN 7241, GN 7243,

GN 7247 hinges, stainless steel



AISI 304 stainless steel or with matte finish. They are fixed from the outside, using the pass-through holes in the wall of the housing body or alternatively they are welded to the inside of the wall. This provides effective protection against vandalism. Dimensions: 60 - 75 mm

Spacer plates for hinges

Zinc alloy



They allow different hinges to be fitted on the same door/jamb.

PCM-TH

Spacer plates for hinges

Stainless steel





They allow mounting of CFM, CMM, CMM-ST and CMMY without nuts and washers, as they have two threaded holes.

Mounted on the upper side of the hinge, the plate offers new mounting options.

CFM-TR

Hinges

SUPER-technopolymer









AISI 303 stainless steel rotating pin. Mounting with pass-through holes for countersunk head screws. Hinge body on jamb side identical to or different from hinge body on door side. Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces). Dimensions: 40 - 50 - 60 mm

CFVT.

Detent hinges Technopolymer





Assembly by means of pass-through holes for cylindrical head screws M5. The locking device allows the door to be stopped in 4 positions: -70°, 80°, 115° and 150°. Also available without detent positions. Resistant torque 0.7 to 1.7 Nm. Max. rotation angle 255° (-75° and +180° with 0° = coplanarity of surfaces). Dimensions: 53 mm







































13.2 Friction and detent hinges

continues



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Material

- · Technopolymer (8)
- · Stainless steel (1)
- · Die-cast zinc alloy (3)

Type of assembly

· Pass-through hole (12)

CMVT Detent hinges Zinc alloy



Mounting via pass-through holes with housing for flat countersunk-head screws. Detent with angle -0° / 0° / 90° / 180° resistant torque 1 Nm.

Detent with angle 3° / 117°, resistant torque 1 Nm.

Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces). Dimensions: 60 mm

CFU.

Hinges with adjustable friction Technopolymer



РОМ

Assembly by means of pass-through holes for cylindrical head screws Max. rotation angle 275° (-95° and +180° with 0° = coplanarity of surfaces). Dimensions: 40 - 60 mm

CFU-RA Hinge with adjustable

friction



with axial adjustment screw, technopolymer



Assembly by means of pass-through holes for cylindrical head screws. The screw located in the axis of the hinge, which allows the resistant torque of the hinge to be increased or decreased in a controlled manner in both directions. Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces). Dimension: 67 mm

CFG-ERS

Hinges for profiles with friction locking Technopolymer







Adjustable handle for clamping in technopolymer. Technopolymer centring inserts for profiles with groove sizes from 6 to 12 mm. Mounting via pass-through holes with housing for M6 flat countersunk-head screws. Max. rotation angle 280° (- 100° and $+180^\circ$ with 0° = coplanarity of surfaces). Dimensions: 36 mm

CMUF

Hinges with adjustable friction Zinc alloy



Epoxy resin body coating. Mounting via pass-through holes with housing for flat countersunk-head screws. Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces).

Dimensions: 40 - 50 - 60 mm

Detent hinges

screw-covers, technopolymer





Mounting via pass-through holes with housing for flat countersunk head screws, cylinder head screws, or hexagonal head screws. The internal locking device (ELESA patent) allows the door to be stopped in four different positions (0°, $+80^\circ$, $+120^\circ$, $+170^\circ$). Max. rotation angle 195° (-15° and $+180^\circ$ with 0° = coplanarity of surfaces). Dimensions: 50 mm

CFU-CLEAN

Hinges with adjustable friction

Technopolymer, easy cleaning



CLEAN POM

Assembly by means of pass-through holes for cylindrical head screws.

Max. rotation angle 275° (-95° and +180° with 0° = coplanarity of surfaces). Dimensions: 40 - 60 mm

CFA-ERS Hinges with friction brake

Technopolymer



PA

Adjustable handle for clamping in technopolymer with red 'PUSH' pad-printed on the lever. Mounting via pass-through holes with housing for flat countersunk-head screws. Max. rotation angle 215° (-35° and +180° with 0° = coplanarity of surfaces). Dimensions: 49 - 65 - 97 mm

CMUF-AH

Hinges with friction brake

Zinc alloy



Die-cast zinc alloy handle, black or grey. Technopolymer guide bush. Nut with threaded blind hole in steel, surrounded by technopolymer. Mounting via pass-through holes with housing for flat countersunk-head screws. Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces). Dimensions: 60 mm

CMUF-A4

Hinges with adjustable friction

AISI 316 stainless steel





Sandblasted matte finish. Mounting via pass-through holes with housing for flat countersunk-head screws.

Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces).
Dimensions: 40 - 50 - 60 mm





164

13.3 Adjustable Hinges



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Material

- · Technopolymer (1)
- · Stainless steel (1)
- · Aluminium (2)
- · Die-cast zinc alloy (2)

Type of assembly

- · Blind hole (2)
- · Blind holes -
- Threaded screws (1)
- · Pass-through holes (6)
- Threaded screw (2)

CFA-SL

Hinges with adjusting slotted holes

Technopolymer







AISI 303 stainless steel rotating pin. Mounting by means of slots with pass-through hole and housing for cylindrical head screw for horizontal, vertical, or both horizontal and vertical adjustments. Max. rotation angle 215° (-35° and +180° with 0° = coplanarity of surfaces). Dimensions: 65 mm

GN 127

Hinges with adjusting inserts

Die-cast zinc alloy or Stainless Steel







AISI 316Ti stainless steel rotating pin. Zinc alloy or stainless steel adjusting inserts. Mounting via pass-through holes with housing for cylinder or countersunk head screws. Max. rotation angle 260° (-90° and +170° with 0° = coplanarity of surfaces). Dimensions: 52 - 64 - 76 mm

In line lift-off hinge

Technopolymer





Adjustment pin with octagonal technopolymer coupling. Mounting via nickel-plated brass bosses with threaded hole or nickel-plated steel threaded studs. Offset lift-off hinges have been designed to adjust possible misalignments between the door and the frame. Dimensions: 64 mm

MT-CFNR

Tool for mounting **CFNR** spring hinges Aluminum



Anodised aluminium, natural colour. Technopolymer and stainless steel plungers. Useful during the hinge mounting phase to ensure that the door remains closed or open in the resting position.

GN 238

Hinges with adjusting

Screw-covers, die-cast zinc alloy



AISI 303 stainless steel rotating pin. Hardened steel adjusting inserts. Assembly via 4 inserts with housing for countersunk head screws, 2 inserts with housing for countersunk head screws, or pass-through holes with housing for countersunk head screws without adjusting inserts. Max. rotation angle 180° (-20° and +160° with 0° = coplanarity of surfaces). Dimensions: 42 - 50 - 60 mm

Hinge with adjusting inserts

SUPER-technopolymer





AISI 303 stainless steel rotating pin. Technopolymer adjusting inserts. Mounting via pass-through holes with housing for M6 countersunk-head screws. Max. rotation angle 260° (-90° and +170° with 0° = coplanarity of surfaces). Dimensions: 60 mm

Offset lift-off hinge

Technopolymer



PA

Adjustment pin with octagonal technopolymer coupling. Mounting via pass-through holes with housing for hexagonal head screws, cylinder head screws or M5 hexagonal nuts. Offset lift-off hinges have been designed to adjust possible misalignments between the door and the frame. Dimensions: 64 mm

In line lift-off hinges with spring

for automatic return. technopolymer



AISI 303 stainless steel. Mounting via nickel-plated brass bosses with threaded hole or nickel-plated steel threaded studs. A spring system for automatic return of the door when closing or opening. The torque varies progressively with the opening/closing angle of the hinge. Dimension: 62 mm

Hinges with adjusting slotted holes

Die-cast zinc alloy



Die-cast zinc alloy. AISI 303 stainless steel rotating pin. Mounting by means of passthrough slots for cylinder head screws allowing for adjustment during fixing. Max. rotation angle 180° (0° and +180° with 0° = coplanarity of interconnected surfaces). Dimension: 55 mm







































13.4 Hinges for narrow iambs



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Material

- · Technopolymer (5)
- · Stainless steel (1)
- · Aluminium (1)
- · Die-cast zinc alloy (2)

Type of assembly

- Blind hole (3)
- · Blind holes -
- Threaded screws (2)
- · Pass-through holes (4) · Pass-through holes -
- Blind holes (2)
- · Pass-through holes -Threaded screws (1)
- · Threaded screw (2)
- · For welding (1)

Hinge for narrow jambs and doors

Technopolymer





AISI 303 stainless steel rotating pin. Mounting via pass-through holes with housing for M6 flat countersunk-head screws and reference pins for precise positioning of the hinge body. Max. rotation angle 200° (-10° and +190° with 0° = coplanarity of surfaces). Dimensions: 108 mm

CFF.

Hinges for narrow jambs and doors

Technopolymer





AISI 303 stainless steel rotating pin. Mounting via nickel-plated brass bosses with threaded hole or nickel-plated steel threaded studs. Max. rotation angle 200° (-10° and +190° with 0° = coplanarity of surfaces).

Dimensions: 30 - 40 - 48 - 66 mm

CFDA Hinges for narrow jamb

SUPER-technopolymer







AISI 303 stainless steel rotating pin. Mounting via pass-through holes with housing for flat countersunk-head screws. Max. rotation angle 215° (-5° and +210° with 0° = coplanarity of surfaces). Dimensions: 72 - 100 mm

GN 1366

Hinges

Steel Profile, for Welding



Steel pin.

Either with or without lubricant nozzle. Thanks to the standard dimensions, special application-specific solutions can be realized even in relatively small quantities.

Dimensions: 60 - 120 - 160 - 200 - 220 mm

GN 138

Hinges for narrow jamb

Zinc allov



Epoxy resin body coating. Mounting via threaded blind holes. The concealed and tamper-proof mounting from the rear highlights and enhances the special appearance of the hinge. Dimensions: 42 - 52 - 62 - 65 - 80 - 82 - 95 - 125 mm

Hinges for narrow jambs and doors

SUPER-technopolymer





PA

AISI 304 stainless steel rotating pin. Mounting with pass-through holes for countersunk head screws. Max. rotation angle 180° (-0° and +180° with 0° = coplanarity of surfaces). Dimension: 75 mm

CFD.

Hinges for narrow jamb

Technopolymer



AISI 303 stainless steel rotating pin. Mounting by means of bosses with threaded hole, threaded studs or pass-through holes with housing for cylinder head screws. Max. rotation angle 205° (-15° and +190° with 0° = coplanarity of surfaces). Dimensions: 30 - 40 - 48 - 66 mm

GN 136

Hinges

Steel or stainless steel sheet





AISI 304 stainless steel rotating pin. Mounting by welding, holes for cylinder head screws, or holes with housing for flat countersunk head screws. Max. rotation angle 280° (-100° and $+180^{\circ}$ with 0° = coplanarity of surfaces). Dimensions: 30 - 40 - 45 - 50 - 60 - 75 - 90 mm

CMDX-AL

Hinges for narrow jambs and thin doors

Aluminum



AISI 304 stainless steel rotating pin. Mounting by means of self-tapping stainless steel assembly screws. Available with coplanar bodies, with raised body, left or right opening. Max. rotation angle 185° (-5° and +180° with 0° = coplanarity of surfaces). Dimensions: 50 - 70 - 90 mm





13.5 Lift-off hinges



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Material

- · Technopolymer (3)
- · Die-cast zinc alloy (2)

Type of assembly

- · Blind hole (1)
- · Pass-through holes (4)

Lift-off hinges SUPER-technopolymer





Self-lubricating technopolymer rotating pin. Mounting via pass-through holes with housing for flat countersunk-head screws.

Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces). Dimensions: 40 - 50 - 60 mm

CMMY

Lift-off hinges Die-cast zinc alloy



Black epoxy resin body coating. AISI 303 stainless steel rotating pin. Mounting via pass-through holes with housing for flat countersunk-head screws. Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces). Dimensions: 40 - 50 - 60 mm

Lift-off hinges Die-cast zinc alloy

Hinges with built-in

SUPER-technopolymer

with IEC EN 60947-5-1.

Dimension: 53 mm

safety switch



Epoxy resin coating, RAL 9005 black colour or RAL 9006 light grey.
Washer in polyamide based technopolymer.

Lift-off hinges with locking/unlocking





For removable doors equipped with a lock, which can be activated using a hex key or key. Mounting with pass-through holes for countersunk head screws. Max. rotation angle 195° (-15° and +180° with 0° = coplanarity of surfaces). Dimension: 60 mm

CFGY

PΑ

Lift-off hinges

For profiles, SUPER-Technopolymei









Self-lubricating technopolymer rotating pin. Mounting via pass-through holes with housing for M6 flat countersunk-head screws. Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces). Dimensions: 32 mm



Assembly by means of threaded holes. Dimension: 63 mm

PΑ Safety switch with a normally closed contact

Double insulation of internal circuits.

(NC) and a normally open contact (NO) in

change-over. Positive opening in accordance

CFSW.

Hinges with built-in safety switch

SUPER-technopolymer





Switch with four electrical contacts factory configurable: normally open (NO) or normally closed (NC). Positive opening in accordance with IEC EN 60947-5-1. Double insulation of internal circuits. Dimension: 110 mm

PA

FC-M12x1

FBR-SWB

Extensions with M12x1 connector For CFSQ, CFSW, EBR-SWM and



FC-M12x1-P4: 4-pin M12x1 axial. Black PVC sheathed cable CEI 2022. Nickel-plated brass nut. FC-M12x1-P8: 8-pin M12x1 axial. Black PVC sheathed cable, UL/CSA STYLE type. Electromechanical products with 4 and 8 pole male connector output.

13.6 Electrical safety hinges



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Material

· Technopolymer (4)

Type of assembly

· Pass-through holes (3)

CFSW. and CFMW. assembly kit for profiles for CFSW. And CFMW. hinges, SUPER-technopolymer







AISI 304 stainless steel screws and nuts. Allows installation of CFSW.110 and CFMW.110 hinges on standard profile sizes 30, 35, 40, 45 and 50 mm with T-slot.











































Latches



A wide and varied range of industrial closures in plastic or metal which includes knob, snap, key, adjustable lever and cam closures.

14.1 Latches with knob



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Material

- Technopolymer (1)
- Technopolymer Steel (2)
- · Technopolymer Die-cast zinc alloy (1)
- · Stainless steel (4)
- · Duroplast Steel (1)
- · Duroplast Stainless steel (1)
- · Die-cast zinc alloy (2)

CMT.AE-V0

Lever latches

with fold-away knob, technopolymer



PA

Rotor, stator, fold-away knob, closing lever and nut made of UL-94 V0 technopolymer certified self-extinguish. Protection class IP 65. Rotation 90°.

Dimensions: 18 - 20 - 24 - 32 mm

CMLX

Compression latches with padlock holes

with key-type knob, zinc alloy



Nickel-plated zinc alloy rotor, stator and knob; brass nut; zinc-plated steel closing lever and

They are particularly suitable for use on cabinet doors and doors subject to strong vibrations. Rotation 90°

Dimensions: 30 mm

VCTK. - VCMK. Cam latches

with knob.

technopolymer and steel or stainless steel







MDA-L

Latches with adjustable lever

Technopolymer knob





Technopolymer covers. Threaded zinc alloy body, zinc-plated steel stud and locking nut, stainless steel spring. With or without Neoprene bolt. Rotation 90° right.

Knob diameter: 53 mm, adjustment range from 4 to 46 mm

Lever latches

with key-way type knob, zinc alloy



Nickel-plated zinc alloy rotor, stator and knob; brass nut; zinc-plated steel closing lever and screw.

Rotation 90°.

Dimensions: 20 - 25 mm

VCK.

Cam latches

with knob, steel or stainless steel cam





Smooth zinc-plated steel or AISI 303 stainless steel stud. Door thickness compensation spring in zinc-plated steel or AISI 303 stainless steel. Standard executions: opening to the right side or left side.

Knob diameter: 50 - 60 - 70 mm

VCML

Lever latches

with knob, stainless steel





Stainless steel stator, closing lever, screw, washer and nut.

Rotation 90° right. IP 65 protection class. Knob diameter: 50 mm

MDA-LS

Lever latches with clamping bolt

Technopolymer knob





Technopolymer covers.

Zinc alloy threaded body, zinc-plated steel screw and locking nut. Neoprene bolt. Rotation 90° right.

Knob diameter: 53 mm, clamping range from

1 to 41 mm





14.1 Latches with knob continues

14.2 Snap locks

Material • Technopolymer (7)

alloy (1)

· Stainless steel (1) · Die-cast zinc alloy (1)

· Technopolymer - Die-cast zinc

MDA-LS-SST

Lever latches with clamping bolt

Technopolymer knob



Technopolymer cap. Threaded body, screw and locking nut in AISI 316 stainless steel, lever in AISI 304 stainless

steel. IP 65 protection class. Rotation 90° right.

Knob diameter: 53 mm

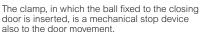
BPS

Ball catch

Technopolymer



PA POM



Opening release strength is = 30 N.
Assembly by means of a self-tapping screw or cylindrical-head screw with hexagon socket.



PA

Snap door lock

Technopolymer







Standard executions: snap lock and unlock (BMS), snap lock, manual release by means of a lever (BMS.L), snap lock, manual release by means of hexagonal key (BMS.EH) or snap lock, manual release by means of a two-wing key (BMS.A). Mounting with TCEI M4 screws. Diameter: 38 mm

CMS

Snap locks

with handle. technopolymer





CMS integrates both functions of handle and snap lock into a single product.

The door can be opened by pulling the handle towards the outside.

Diameter: 60 mm

GN 315

Snap locks

with unlocking button, technopolymer and zinc alloy



Technopolymer unlocking button, light-grey colour; steel adjusting spacer, black colour; zinc alloy threaded body; zinc-plated steel locking nut.

Adjusting distance: from 18 to 28 mm

GN 1150

Hygienic Design Lever latches

Knob side (front hygiene) / Knob and plunger side (full hygiene)









AISI 316L stainless steel stator and rotor; stainless steel ring nut, lever, and screw; double flat face coupling. Silicone gasket, FDA compliant. Rotation 90°. IP 66 protection class. For use in environments that require high levels of hygiene. Dimensions: 24 - 45 mm

GN 4490

Ball-shaped door lock

Die-cast zinc alloy or AISI 316 LHC stainless steel









Pass-through holes for countersunk head screws.Standard executions: die-cast zinc alloy, normal or reinforced AISI 301 stainless steel pressure spring; AISI 316 LHC stainless steel, normal or reinforced AISI 316 Ti stainless steel force spring. Dimensions: 38 - 50 - 68 - 80 mm

Snap door lock

for T-slot profiles, technopolymer

PA





Standard executions: snap lock and unlock (BMST), or snap lock, manual release by means of a lever (BMST.L).

When the lever is locked, the maximum load at breakage of the door lock is = 2500 N.

CMS-CLEAN

Snap door lock

with handle. technopolymer, easy cleaning











CMS integrates both functions of handle and snap lock into a single product.

The door can be opened by pulling the handle towards the outside.

Diameter: 60 mm

GN 315.1

Snap locks

with unlocking button, technopolymer and zinc alloy



Technopolymer unlock button, light grey colour; threaded body in zinc alloy; zinc-plated steel locking nut.

Adjustment range: 20 to 25 mm







































14.3 Latches with key



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Material

- Technopolymer (11)
- · Technopolymer Die-cast zinc alloy (4)
- Technopolymer Zamac (3)
- Steel (6)
- · Stainless steel (6)
- Aluminium (1)
- · Die-cast zinc alloy (9)
- · Brass zinc alloy (1)

Flush pull handles with lever latch

with lock, snap-in assembly, technopolymer





Standard executions: lock with key removable in two positions, rotation by 90°, placed on the right or on the left. Lock with one combination, different combinations or different combinations and master-key or electrical panel lock type with triangular, square or two-wing groove. Dimension: 117 mm

Door lock handles

with or without lock, technopolymer





Standard executions: rear or front mounting, with or without lock, with removable key in closed position, 90° rotation or removable in two 180° positions, 180° rotation, left or right position.

. Dimension: 90 mm

GN 936

CSMH

handle

zinc alloy

Latches with push

with handles and lever,

Door lock handles with or without built-in lock, zinc alloy



Two keys in nickel-plated steel, removable in two positions at 180°. Technopolymer screw covers. With or without single or differentiated

Handle in black or grey colour. Standard executions:

lock with different combinations or one combination. Assembly by means of 4 zinc-plated steel screws

co-moulded into the base. The overturning of the handle

in its seat moves the spindle axially with the lever in the

direction of the swing-door until the locking position. Di-

mension: 128 mm, adjusting distance: from 13 to 75 mm

encryption lock.

GN 119

Cam latches

with key, zinc alloy or stainless steel





Stator and rotor in chrome-plated zinc alloy or AISI 303 stainless steel; screw, washer, spring washer and M22x1.5 nut in zinc-plated steel, spacer in aluminium or AISI 303 stainless steel. Keyway for triangular or two-winged key.

GN 119.3

Cam latches

with handle and key, zinc alloy



Rotor, latch cam, screw, washer, spring washer and nut M22x1.5 in zinc-plated steel. Distance element in aluminium. With keyway for triangular, square 7 or two-winged key.
Black or grey handle.

GN 115.10

Flush pull handles with lever latch

with key, zinc alloy



Handle in black or grey colour. Standard executions: triangular, square 7x7 or two-wing groove for key, positioned to the right or to the left. Assembly by means of 5 zinc-plated steel screws. GN 115 zinc-plated steel closing lever. Dimension: 128 mm, adjusting distance: from 13 to 75 mm

BOCK

Cam latches with key

with key, steel or stainless steel cam





BOCK: nickel-plated steel stud; nickel-plated brass guide bush and locking nut; sintered, hardened steel cam; zinc-plated steel spring. BOCK-SST: stainless steel stud, guide bush, locking nut, cam and spring. Right or left opening. Lengths: 46 - 54 - 64 mm

EBP-CH

Handle with lever latch

with key, technopolymer



PΑ ERGÖSTYLE⁴

Technopolymer rotor, zinc alloy locking ring and locking lever.

Brass boss, threaded blind hole with keyway for triangular or two-winged key.

Rotation 90°

Fixing centre distance: 117 mm

EBR-CH

Handle with safety locking device

For retractable sliding doors, technopolymer





Anti-intrusion profiled key.

AISI 304 stainless steel pin with technopolymer push button.

Pass-through holes for cylindrical-head screws with hexagon socket.

Assembly centre distance: 132 mm





170

14.3 Latches with key continues

CKE.

Locking bolt Technopolymer









Technopolymer, black, matte finish, with antiintrusion profile keyway. Locking bar in AISI 304 stainless steel with technopolymer button. Dimension: 53.5 mm

CLT.

Latches for cabinets with handle for rod controls, technopolymer





Chrome-plated zinc alloy handle pin with NBR synthetic rubber O-ring. Standard executions: lock with different combinations, with one combination or for technopolymer key with zamac insert and two-wing groove, European style stator, execution with IP 65 protection class. Dimension: 160 mm

CQT.AE-V0

Lever latches

with key, technopolymer









UL-94 V0 self-extinguishing technopolymer; stainless steel self-tapping screw. Rotation 90°.

Keyway for two-winged or triangular key. Dimensions: 18 - 20 - 24 - 32 mm

CQT.FM-AE-V0

Lever latches

with key, quick assembly, self-extinguishing technopolymer







Technopolymer black colour.
Silicone packing ring, washer with elastic fixing wings and stainless steel self-tapping screw.
Technopolymer key.

Retation 00° IR 65 protection class.

Rotation 90°. IP 65 protection class. Dimensions: 18 - 20 - 22 - 25 - 30 mm

CQ.SST

Lever latches

with key, stainless steel





Stator and rotor in stainless steel; nut, shaped closing lever and screw in AISI 304 stainless steel; two-wing or triangular keyway. Rotation 90°. IP 65 protection class. Dimensions: 18 - 24 mm

CLC.

Latches for cabinets

with handle for rod controls, technopolymer and zinc alloy





Chrome-plated zinc alloy handle pin and rod with NBR synthetic rubber O-ring. Standard executions: lock with differentiated or single encryption with nickel-plated brass keys, 180° removable, or lock with two-wing keyway and technopolymer key with zamak insert, European type stator, IP 65 protection class. Dimension: 160 mm

CAR. Rod controls

Steel



Zinc-plated rod guides, chrome-plated zinc alloy toothed wheel.

Nickel-plated zinc alloy or technopolymer body. Length: 347 mm

CQT.FM-CR

Lever latches

with key, quick assembly, technopolymer







Chrome technopolymer body.
Silicone packing ring, stainless steel washer and self-tapping screw. Technopolymer key.
Rotation 90°. IP 65 protection class.
Dimensions: 18 - 20 - 22 - 25 - 30 mm

CQ.

Lever latches

with key, zinc alloy



Nickel-plated zinc alloy stator and rotor; brass or zinc alloy nut, zinc-plated steel shaped closing lever and screw.

Rotation 90°. IP 65 protection class. Keyway for two-winged or triangular key. Dimensions: 16 - 18 - 20 - 24 - 28 - 32 mm

VC.308

Lever latches

with flat lever, technopolymer knob with lock





Stator and rotor in die-cast zinc alloy. Two nickel-plated brass keys, removable in two positions at 180° (locked or unlocked position). Right or left-hand opening; lock with single or differentiated encryption or without lock. Knob diameter: 40 mm







































14.3 Latches with key

continues

VC.309 Lever latches

with flat lever, technopolymer knob with lock





Die-cast zinc alloy stator and rotor; two nickel-plated brass keys, removable in two 180° positions (lock open or closed). Right or left-hand opening; lock with single or differentiated encryption or without lock. Knob diameter: 40 mm

CS-SST

Lever latches

with lock, stainless steel



AISI 316L stainless steel stator and rotor, zinc-plated steel lever, washer and rowel. Two nickel-plated brass keys removable in two positions at 180°

With single or differentiated encryption lock. Dimensions: from 13 to 30 mm

Lever latches with safety lock,

zinc alloy



Lock with double shear key with internal profile. Chrome-plated zinc alloy stator and rotor. 180° rotation.

With single or differentiated encryption lock. Dimensions: 22.5 - 27.5 mm

CSMT-A

Lever latches

with T-handle and lock, anti-rotation device, technopolymer





Technopolymer stator and nut; zinc alloy rotor; zinc-plated steel closing lever; two brass keys, removable in two 180° positions. IP 65 protection class. Rotation 90° right. With single or differentiated encryption lock. Handle dimension: 80 mm

RH-FG9

Handles with lock

Aluminum



Zinc alloy stator and rotor, brass nut, zinc-plated steel lever, positioning washer and spring washer. Two nickel-plated brass keys removable in two positions at 180° With single or differentiated encryption lock. Dimensions: from 13 to 30 mm

Lever latches

with lock, zinc alloy



Zinc alloy stator and rotor, brass nut, zinc-plated steel lever, positioning washer and spring washer. Two nickel-plated brass keys removable in two positions at 180°. Standard executions: lock with different combinations or one combination. Dimensions: from 13 to 30 mm

CS-RPR.

Lever latches

with reprogrammable lock, steel



Chrome-plated zinc alloy stator and rotor and stainless steel front plate; zinc-plated steel closing lever and screw. 180° rotation with removable key in two positions. Accessories: kit of keys containing the programming key and use keys. Dimensions: 20 - 25 - 30 mm

CSMT.

Lever latches

with T-handle and lock, anti-rotation device, technopolymer





Handle, stator and nut in technopolymer, rotor in zinc alloy; flat closing lever in zinc-plated steel; two nickel-plated brass keys, removable in two 180° positions. 90° clockwise rotation (right). IP 65 protection class. Differentiated or single encryption lock. Dimensions: 13.5 mm

ELCK

Lever latches

with lever handle and lock, technopolymer



ERGÖSTYLE®

PA

Zinc alloy stator and rotor, brass nut, lever. Two nickel-plated brass keys removable in two positions (locked or unlocked position). Single encryption lock, right or left opening or either right or left opening. Dimensions: 67 - 85 mm

CSM.

Lever latches

with T-handle and lock, steel



Technopolymer stator, rotor and nut in zinc alloy; zinc-plated steel closing lever; two brass keys, removable in two 180° positions. IP 65 Protection class. Rotation 90° right.
With single or differentiated encryption lock.

Handle size: 80 mm





14.3 Latches with key continues

14.4 Toggle latches

Material Steel (20)

elesa.com

Stainless steel (13)

· Die-cast zinc alloy (2)

GN 123

CQTL.FM

PA

Lever latches

technopolymer

with key, quick assembly,

Sheet metal puncher

Puncher for lock assemblies for hatches in sheet metal, steel



Punch and die made of hardened steel; ball bearing and hexagon nut made of black-oxide and hardened steel.

Hardened steel threaded guide pin; steel locking nut.

Silicone packing ring.
Washer with elastic fixing wings and self-tapping screw in stainless steel.
Rotation 90°. IP 65 protection class.
Keyway for two-winged or triangular key.
Dimensions: 18 - 20 - 22 - 25 - 30 mm

CQTF.FM-AE-V0 Lever latches

Quick-assembly, technopolymer



Silicone packing ring.
Washer with elastic fixing wings and self-tapping screw in stainless steel.
Rotation 90°. IP 65 protection class.
Keyway for two-winged or triangular key.
Dimensions: 18 - 20 - 22 - 25 - 30 mm





































CSL.FM

Lever latches with key with lock, technopolymer

and zinc alloy



Stator in technopolymer, rotor in zinc alloy; flat closing lever in zinc-plated steel; two nickel-plated brass keys, removable in one position. Rotation 90° right. IP 65 protection class. With single or differentiated encryption lock. Dimensions: 18 - 20 - 22 - 25 - 30 - 32 mm



Toggle latches

Steel or stainless steel



TLC.Z: zinc-plated steel. TLC.SST: AISI 304 stainless steel. Dimensions: 76 mm

TLA.

Toggle latches

Steel or stainless steel

TLA: basic hook clamp. TLAL: hook clamp with padlock hole. TLAS: hook clamp with security stop and red technopolymer push button. Special executions on request: catch brackets in different shapes and finishes. Dimensions: 102 - 140 - 193 mm

Toggle latches

Steel or stainless steel



TLG.Z: zinc-plated steel. TLG.SST: AISI 304 stainless steel. Dimensions: 114 - 115 mm

Toggle latches

Steel or stainless steel



TLI.Z: zinc-plated steel. TLI.SST: AISI 304 stainless steel. Dimensions: 90 mm

Toggle latches

Steel or stainless steel



Lever body and matching part in zinc-plated steel or in AISI 304 stainless steel. Special executions on request: catch brackets in different shapes and finishes. Lever dimensions: 40 mm

Toggle latches

Steel or stainless steel





TLE.Z: zinc-plated or AISI 304 stainless steel basic hook clamp. TLEL.Z: zinc-plated steel hook clamp with padlock hole. Special executions on request: catch brackets in different shapes and finishes. Dimension: 52 mm



14.4 Toggle latches

continues

Adjustable hook clamps

Steel or stainless steel



TLF: basic hook clamp.

TLFS: hook clamp with security stop and red technopolymer push button.

Special executions on request: catch brackets in different shapes and finishes.

Dimensions: 138 to 150 mm

TLWS

Toggle latches

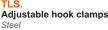
with safety stop, steel or stainless steel



Eyelet or T-shaped pulling hook and matching

part in AISI 301 stainless steel.
Eyelet or T-shaped pulling hook and matching part in AISI 304 stainless steel, pins in AISI 303 stainless steel

Dimensions: 117.5 ÷ 189.5 mm





Lever body and matching part in zinc-plated steel or in zinc-plated steel.

Special executions on request: Adjustable and lockable hook clamps. Dimension: 150 mm

GN 720

Stop locks

4 indexing positions (90°), zinc alloy



These stop locks are suitable for clamping drawers or doors in applications subject to strong vibrations. Black or light grey, matte finish. AISI 304 stainless steel countersunk-head assembly screws. Dimensions: 45 - 65 mm

Adjustable hook clamps

Steel or stainless steel



TLM: basic hook clamp. TLML: hook clamp with padlock hole. Special executions on request: catch brackets in different shapes and finishes. Dimension: 88 mm

Toggle latches

Steel or stainless steel





Eyelet or T-shaped pulling hook and matching part in zinc-plated steel.

Eyelet or T-shaped pulling hook and matching part in AISI 304 stainless steel, pins in AISI 303 stainless steel.

Dimensions: 117.5 ÷ 189.5 mm

Adjustable hook clamps Steel or stainless steel



Lever body and matching part in zinc-plated steel or in AISI 304 stainless steel. Special executions on request: stop locks that are lockable or with safety spring. Dimension: 60÷70 mm

GN 702 Stop locks

4 indexing positions (90°), zinc alloy



These stop locks are suitable for clamping drawers or doors in applications subject to strong vibrations. Mounting by means of base flange with two countersunk screw holes, body with threaded hole or threaded body with nut. Dimensions: 40 - 55 mm

Stop lock

Steel



Lever body in zinc-plated steel. Special executions on request: AISI 304 stainless steel hook clamps. Dimension: 125.5 mm

Adjustable hook clamp

Steel



Lever body in zinc-plated steel. Special executions on request: nickel-plated steel stop locks. Dimension: 82÷94 mm





14.4 Toggle latches continues

TLP. Stop lock Steel



Zinc-plated steel body. Special executions on request: AISI 304 stainless steel hook clamps. Dimension: 66 mm

Adjustable hook clamps Steel



Used particularly for sloping surfaces. Lever body material and matching part in zinc-plated steel. Dimension: 60÷65 mm

TLY. Toggle latches Steel



Lever body in zinc-plated steel. Welding mounting.
Special executions on request: AISI 304 stainless steel hook clamps. Dimension: 81 mm

Clamps tensile compensated

Steel or stainless steel



Suitable for use on doors subject to vibration due to the traction compensation action exerted by the springs.
Zinc-plated steel or AISI 304 stainless steel.
Dimension: 61.5 mm

TLX.

Toggle latches

Steel or stainless steel



Equipped with an internal spring mechanism that keeps both the control lever and the locking hook in the open position.

Lever body, matching part and tension spring in zinc-plated steel or in AISI 304 stainless steel.

Dimensions: 53 - 76 - 111 - 152 mm

Toggle latches

Steel



Lever body material and matching part in zinc-plated steel. Dimension: 93 mm













































Toggle and fastening clamps



A wide range of quick clamping tools, using toggle mechanisms; useful for industrial applications where strong clamping forces and repetitive movements are required to clamp components.

15.1 Horizontal toggle clamps



elesa.com

Material

- Steel (7)
- · Stainless steel (5)

MOC.

Horizontal toggle clamps

with folded base, steel or stainless steel



Hardened and ground steel support bosses (for dimensions ≥355).

Red polyurethane handle.

With open clamping lever and two folded washers.

Dimensions: 118 - 170 - 195 - 270 mm

MOA-SST

Horizontal toggle clamps

with folded base, stainless steel





Red polyurethane handle.

With open clamping lever and two folded washers or with solid clamping lever and welding tie.

Dimensions: 68 - 118 - 170 - 195 mm

MOAS-PR

Clamps with extended lever, horizontal series

with folded base and anti release lever, steel



Hardened and ground steel support bosses. Red polyurethane handle. Polyvinylchloride (PVC) anti-release lever coating. The main characteristic of the MOAS-PR clamp is the special extension of the locking arm to assist the specific use in checking templates. Dimensions: 171 - 196 mm

MOB-SST

Horizontal toggle clamps

with straight base, stainless steel



Red polyurethane handle.

With open clamping lever and two folded washers or with solid clamping lever and welding tie.

Dimensions: 118 - 170 - 195 mm

MOA.

Horizontal toggle clamps

with folded base, steel



Hardened and ground steel support bosses (for dimensions ≥355). Red polyurethane handle. With open clamping lever and two folded washers or with solid clamping lever and welding tie. Dimensions: 68 - 118 - 170 - 195 -269 - 308 mm

MOAS.

Horizontal toggle clamps

with folded base and anti-release lever, steel or stainless steel



Hardened and ground steel support bosses (for dimensions ≥355). Red polyurethane handle. With open clamping lever and two folded washers or with solid clamping lever and welding tie.

Dimensions: 118 - 171,5 - 196 - 269 - 305 mm

MOB.

Horizontal toggle clamps

with straight base, steel



Hardened and ground steel support bosses (for dimensions ≥355). Red polyurethane handle. With open clamping lever and two folded washers or with solid clamping lever and

Dimensions: 118 - 170 - 195 - 269 - 308 mm

MOBS.

Horizontal toggle clamps

with straight base and safety stop, steel or stainless steel





Hardened and ground steel support bosses (for dimensions ≥355). Red polyurethane handle. With open clamping lever and two folded washers or with solid clamping lever and

Dimensions: 118 - 171,5 - 196 - 269 - 305 mm







15.1 Horizontal toggle clamps

continues

MOBS-PR

Clamps with extended lever. horizontal series

with straight base and anti-release lever, steel



Hardened and ground steel support bosses. Red polyurethane handle.
Polyvinylchloride (PVC) anti-release lever cover. The special extension of the locking arm facilitates specific use in checking templates. Dimensions: 171 - 196 mm

15.2 Vertical toggle clamps



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Material

- Steel (11)
- · Stainless steel (4)

MVA. Vertical toggle clamps

with folded base, steel or stainless steel



Hardened and ground steel support bosses. Red polyurethane handle.

With open clamping lever and two folded washers or with solid clamping lever and welding tie. Dimensions: 66,5 - 85 - 110,5 - 129 - 164 - 223 mm

MVAS-PR

Clamps with extended lever, vertical series with folded base and anti release lever, steel



Hardened and ground steel support bosses. Red polyurethane handle. Polyvinylchloride (PVC) anti-release lever coating. With open clamping lever and two folded washers or with solid clamping lever and welding tie. Dimensions: 164 - 198 mm

MVBS

Vertical toggle clamps

with straight base and safety stop, steel or stainless steel





Hardened and ground steel support bosses. Red polyurethane handle. Polyvinylchloride (PVC) anti-release lever coating. With open clamping lever and two folded washers or with solid clamping lever and welding tie. Dimensions: 85 - 110,5 mm

MVC.

Vertical toggle clamps

with double base, steel



Red polyurethane handle. With open clamping lever and two folded washers or with solid clamping lever and welding tie.

Dimensions: 157 - 193 mm

MVAS.

Vertical toggle clamps

with folded base and anti-release lever, steel or stainless steel



Hardened and ground steel support bosses. Red polyurethane handle. Polyvinylchloride (PVC) anti-release lever coating. With open clamping lever and two folded washers or with solid clamping lever and welding tie. Dimensions: 85 - 110,5 mm

MVB. Vertical toggle clamps

with straight base, steel or stainless steel



Hardened and ground steel support bosses. Red polyurethane handle.

With open clamping lever and two folded washers or with solid clamping lever and welding tie. Dimensions: 66,5 - 85 - 110,5 - 129 - 164 - 223 mm

MVBS-PR

Clamps with extended lever, vertical series

with straight base and anti-release lever, steel



Hardened and ground steel support bosses. Red polyurethane handle. Polyvinylchloride (PVC) anti-release lever

cover. The special extension of the locking arm facilitates specific use in checking templates. Dimensions: 164 - 198 mm

MVD. Vertical toggle clamps

with double base, steel



Red polyurethane handle. With open clamping lever and two folded washers or with solid clamping lever and welding tie. Dimensions: 103 - 130 mm









































15.2 Vertical toggle clamps continues

Reinforced vertical toggle clamps

with folded base, steel



Hardened and ground steel support bosses and rotating pins.

Red polyurethane handle. With open clamping lever and two folded washers or with solid clamping lever. Dimensions: 86 - 129,5 - 161 - 203 mm

Reinforced vertical toggle clamps

with straight base, steel



Hardened and ground steel support bosses and rotating pins. Red polyurethane handle.

With open clamping lever and two folded washers or with solid clamping lever. Dimensions: 86 - 129,5 - 161 - 203 mm

MPB.

Heavy-duty vertical toggle clamps



Hardened and ground steel support bosses, rotating pins and seeger rings. Red polyurethane handle. Dimensions: 190 - 220 - 250 mm

15.3 Push Pull toggle clamps



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Material

- Steel (5)
- · Stainless steel (1)

Push-pull toggle clamps Steel



Rivets and push lever in zinc-plated steel. Guide bush in zinc-plated brass. Red polyurethane handle. Dimensions: 130 - 167 mm

MFC-SST Push-pull toggle

clamps Stainless steel



Rivets and push lever in stainless steel. AISI 304 stainless steel base. Red polyurethane handle. Dimensions: 86 - 116 - 122 mm

MFC. Push-pull toggle clamps Steel



Rivets and push lever in zinc-plated steel. Manganese phosphate pressed steel base, black colour. Red polyurethane handle.

Dimensions: 86 - 116 - 122 - 164,5 - 182 - 238 - 316 mm

Push-pull toggle clamps

Steel



Rivets, push lever and guide bush in zinc-plated steel. Red polyurethane handle. Pressure clamping with right or left rotation. Dimensions: 73 mm

MLB.

Push-pull toggle clamps

Steel



Rivets and push lever in zinc-plated steel. Manganese phosphate steel base, black colour, pass-through holes. Red polyurethane handle. Dimensions: 85 - 117 - 164,5 mm

Push-pull toggle clamps

Steel



Rivets, push lever and guide bush in zinc-plated steel. Red polyurethane handle. Mounting bracket in zinc-plated steel available to order separately.

Dimensions: 71 - 113 - 173 mm







15.3 Push Pull toggle clamps continues

MFE-SST Push-pull toggle clamps

Stainless steel



Rivets and push lever in AISI 304 stainless steel. AISI 303 stainless steel guide bush. Red polyurethane handle. Mounting bracket in zinc-plated steel available to order separately.
Dimensions: 71 - 113 - 173 mm

15.4 Latch clamps



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Material

- Steel (16)
- Stainless steel (11)

Latch clamps

Steel



Rivets, double pulling hook parallel to the clamping arm, oscillating pin and nuts in zinc-plated steel. Red polyurethane handle. The position of the pulling hook can be adjusted in length according to the specific applications. Dimensions: 98 - 152 - 220 mm

MTC-S Latch clamps

with safety device, steel or stainless steel



Zinc-plated steel rivets, pulling hook, oscillating pin and nuts. Red polyurethane handle. The clamp opening is obtained by actuating the button to disengage the safety device, thus it is possible to operate with the control lever. Dimensions: 101 - 169 - 221 mm

MTD-SST Latch clamps

Stainless steel



AISI 304 stainless steel rivets. Double pulling hook perpendicular to the clamping arm, oscillating pin and nuts in AISI 304 stainless steel. The position of the pulling hook can be adjusted in length according to the specific applications. Dimensions: 68 - 106 - 147 mm

Latch clamps

Steel



Rivets, oscillating pin and nuts in zinc-plated steel.

Red polyurethane handle.

With traction pin or with traction hook. Dimensions: 203 - 226 - 250 - 278 - 305 - 343 mm

MTC-SST Latch clamps

Stainless steel





Rivets, oscillating pin and nuts in AISI 304 stainless steel. Double pulling hook parallel to the clamping arm in AISI 304 stainless steel. The position of the pulling hook can be adjusted in length according to the specific applications. Dimensions: 98 - 152 - 220 mm

Latch clamps

Steel



Rivets, double pulling hook, oscillating pin and nuts in zinc-plated steel. Red polyurethane handle. The position of the pulling hook can be adjusted in length according to the specific applications.

Dimensions: 68 - 106 - 147 mm

Latch clamps

Steel



AISI 304 stainless steel rivets. Double pulling hook perpendicular to the clamping arm, oscillating pin and nuts in AISI 303 stainless steel. The position of the pulling hook can be adjusted in length according to the specific applications. Dimensions: 68 - 106 - 147 mm

Heavy-duty latch

clamps Steel



Pin in ground and hardened steel. Double pulling hook, oscillating pin and nuts in zinc-plated steel. The position of the pulling hook can be adjusted in length according to the specific applications. Dimensions: 226 - 282 mm









































15.4 Latch clamps

continues

MTP-SST Heavy-duty latch clamps Stainless steel

Pin, double pulling hook, oscillating pin and nuts in AISI 303 stainless steel. The position of the pulling hook can be adjusted in length according to the specific applications. Dimensions: 226 - 282 mm

MTP-D Heavy-duty latch clamps Steel



Pin in ground and hardened steel. Double pulling hook, oscillating pin and nuts in zinc-plated steel. The position of the pulling hook can be adjusted in length according to the specific applications. Dimensions: 159,5 mm

MTS-SST Heavy-duty latch clamps weldable stainless steel



Pin, double pulling hook, oscillating pin and nuts in AISI 303 stainless steel. The position of the pulling hook can be adjusted in length according to the specific

applications. Dimensions: 221 - 277 mm

MTS-D Heavy-duty latch clamps

weldable steel



Pin in ground and hardened steel. Double pulling hook, oscillating pin and nuts in zinc-plated steel. The position of the pulling hook can be adjusted in length according to the specific applications. Dimensions: 159,5 mm

MTL Heavy-duty latch clamps

with safety device, steel



Pins in ground and hardened steel. Red polyurethane handle. The engaging position can be length-regulated in order to suit better the application by means of a threaded hook, locked in place by a grub screw. Dimensions: 318 mm

Latch clamps

with safety device, steel or stainless steel



Pin in ground and hardened steel or in AISI 303 stainless steel. Double pulling hook, oscillating pin, nuts, lever and safety hook in zinc-plated steel or in AISI 304 stainless steel. The tool is opened by pressing the button to disengage the safety device. Dimensions: 226 - 282 mm

Heavy-duty latch clamps

weldable steel



Pin in ground and hardened steel. Double pulling hook, oscillating pin and nuts in zinc-plated steel. The position of the pulling hook can be adjusted in length according to the specific applications. Dimensions: 221 - 277 mm

Latch clamps, weldable

with safety stop, steel or stainless steel, heavy-duty series





Pin in ground and hardened steel or in AISI 303 stainless steel. Double pulling hook, oscillating pin, nuts, lever and safety hook in zinc-plated steel or in AISI 303 stainless steel. The tool is opened by pressing the button to disengage the safety device. Dimensions: 221 - 277 mm

U-shaped pulling

hooks for pulling hook clamps Zinc-plated steel or stainless steel





TRU pulling hooks provide various fastening solutions for pulling hook clamps. They come with 4 nuts.

Latch clamps

with safety device, steel



Rivets in zinc-plated steel. Red polyurethane handle. The engaging position can be length-regulated in order to suit better the application by means of a threaded hook, locked in place by a locking nut.
Dimensions: 103 - 153 - 222 mm





15.4 Latch clamps continues

Latch clamps

with safety device, stainless steel



AISI 304 stainless steel rivets. Red polyurethane handle. The engaging position can be length-regulated in order to suit better the application by means of a threaded hook, locked in place by a locking nut. Dimensions: 103 - 153 - 222 mm

MTF-S

Latch clamps

with safety stop, zinc-plated steel or stainless steel



With traction pin and matching part, with threaded hole without matching part, with eyelet-shaped pulling hook and matching part, with T-shaped pulling hook and matching part or with hook-shaped pulling hook and matching part. The position of the pulling hook can be adjusted in length. Dimensions: 200 - 248 mm

15.5 Clamps for rotational moulds - Reverse clamps



Material

• Steel (4)

MVA-R Vertical toggle clamps

with folded base, steel



Phosphated weldable steel body. Phosphated steel rivets. Dimensions: 85 - 110 - 128 mm

MOA-R

Horizontal toggle

clamps

with folded base, steel



Phosphated weldable steel body. Phosphated steel rivets.

They are particularly suitable for applications on moulds for plastic materials and in rotational moulding.

Dimensions: 162 - 190 - 260,5 mm

15.6 Pneumatic fastening clamps



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PVB.

Heavy-duty pneumatic clamps

Steel



Rivets and pins in zinc-plated steel. With open or full clamping lever for welding or with magnetic cylinder.
Dimensions: 162 - 195 - 259 - 307 - 363 mm

Latch clamps

Toggle clamps

Dimensions: 54 mm

Latch clamps weldable steel

natural steel.

clamping lever.

Pin in ground and hardened steel. The position of the threaded screw can be

Pin in ground and hardened steel.

Double pulling hook, oscillating pin and nuts in

With clamping hole by removable tube or with

adjusted according to specific applications.

weldable steel

Zinc-plated steel or stainless steel





Polyurethane handle. With traction pin and matching part, with threaded hole without matching part, with eyelet-shaped pulling hook and matching part, with T-shaped pulling hook and matching part or with hook-shaped pulling hook and matching part. The position of the pulling hook can be adjusted in length. Dimensions: 200 - 248 mm





























Clamps, heavy-duty

Dimensions: 220 - 334 mm

for heavy duty applications, steel

series



Spheroidal cast iron body painted black. Hexagon socket countersunk head screws for cylinder support in black-oxide steel. Hardened and ground steel rotating pins and seeger rings.

Dimensions: 410 - 487 mm





15.6 Pneumatic fastening clamps

continues



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Material

Heavy-duty pneumatic clamps with toggle-joint support,



Rivets and pins in zinc-plated steel. With open or full clamping lever for welding or with magnetic cylinder. Dimensions: 99 - 118 - 153 - 182 mm

Heavy-duty pneumatic clamps with additional manual

override and toggle mechanism, steel



Rivets and pins in zinc-plated steel. With open or full clamping lever for welding or with magnetic cylinder. Dimensions: 153 - 182 mm

- Technopolymer (1)
- Steel (29)
- · Aluminium (2)

PFB.

Heavy-duty pneumatic clamps with push lever, steel



Manganese phosphate pressed steel base, black colour.

Hardened and ground steel rotating pin and Seeger ring (for dimensions of 360). With magnetic cylinder.

Dimensions: 163 - 274 - 361 - 482 mm

PPD.

Heavy-duty pneumatic clamps

for heavy duty applications, steel



Spheroidal cast iron body painted black. Hexagon socket countersunk head screws for cylinder support in hardened steel. Hardened steel cylinder support bosses. Hardened and ground steel rotating pins and seeger rings. Dimensions: 215 - 246,5 mm

Heavy-duty pneumatic clamps

for heavy duty applications, steel



Rivets and pins in hardened steel. With open or full clamping lever for welding or with magnetic cylinder. Dimensions: 161 - 195 mm

PSWX

Limit switches



Protection classification: IP 67 Cable length: 3.0 m

MM-BL-NK Pneumatic fastening clamps

For side locking



Nickel-plated steel. Maximum working pressure 10 bar. MM-BL-NK pneumatic fastening clamps are characterised by a "double effect" pneumatic cylinder which transmits a rotating movement to the clamping arm. Brackets, fasteners and sensors on request. Dimensions: 20 - 32 - 40 - 50 mm.

MM-BI-NK

Pneumatic fastening clamps

For axial locking



Nickel-plated steel. Maximum working pressure 10 bar. MM-BI-NK pneumatic fastening clamps are characterized by a "double effect" pneumatic cylinder which transmits a rotating movement to the clamping arm. Brackets, fasteners and sensors on request.

Dimensions: 20 - 32 - 40 - 50 mm.

MM-BC-NK Pneumatic fastening

For axial locking with central fixing



Nickel-plated steel. Maximum working pressure 10 bar. MM-BC-NK pneumatic fastening clamps are characterised by a 'double action' pneumatic cylinder that transmits a rotary motion to the clamping arm. Brackets, fasteners and sensors on request. Dimensions: 20 - 32 - 40 mm.

MM-A-RG-NK

Y-shaped brackets for clamping screws

Steel



Screws and MM-CC centring bosses in black-oxide steel. They are compatible with MM-BL-NK, MM-BI-NK or MM-BC-NK pneumatic fastening clamps. Dimensions: 37 - 53 - 63 - 73 mm.





15.6 Pneumatic fastening clamps continues

MM-A-RG1-NK

I-shaped brackets for clamping screw Steel



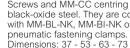
Screws and MM-CC centring bosses in black-oxide steel. They are compatible with MM-BL-NK, MM-BI-NK or MM-BC-NK pneumatic fastening clamps. Dimensions: 37 - 53 - 63 - 73 mm.

Y-shaped brackets for jaw block Steel

MM-A-SC-NK



Screws and MM-CC centring bosses in black-oxide steel. They are compatible with MM-BL-NK, MM-BI-NK or MM-BC-NK pneumatic fastening clamps. Dimensions: 37 - 53 - 63 - 73 mm.



MM-A-SCL-NK I-shaped brackets for jaw block

Steel



Screws and MM-CC centring bosses in black-oxide steel. They are compatible with MM-BL-NK, MM-BI-NK or MM-BC-NK pneumatic fastening clamps. Dimensions: 54 - 76 - 93 - 113 mm

MM-FL-RG-NK

Lower brackets for clamping screws Steel



Screws and MM-CC centring bosses in black-oxide steel. They are compatible with MM-BL-NK

pneumatic fastening clamps. Dimensions: 38 - 54,5 - 63 - 73,5 mm

MM-FL-RG1-NK Lower brackets for clamping screw Steel



Screws and MM-CC centring bosses in black-oxide steel. They are compatible with MM-BL-NK

pneumatic fastening clamps. Dimensions: 38 - 54,5 - 63 - 73,5 mm

MM-FL-SC-NK Lower brackets for jaw block

Steel



Screws and MM-CC centring bosses in black-oxide steel. They are compatible with MM-BL-NK pneumatic fastening clamps. Dimensions: 38 - 54,5 - 63 - 73,5 mm

MM-FL-SCL-NK

I-shaped lower brackets for jaw block

Steel



Screws and MM-CC centring bosses in black-oxide steel. They are compatible with MM-BL-NK

pneumatic fastening clamps. Dimensions: 55 - 77,5 - 93 - 113,5 mm

MM-FI-RG-NK

Long Y-shaped brackets for clamping screws

Steel



Screws and MM-CC centring bosses in black-oxide steel.

They are compatible with MM-BI-NK pneumatic fastening clamps.

Dimensions: 98,5 - 140 - 168 - 192,5 mm

MM-FI-RG1-NK

Long I-shaped brackets for clamping screw

Steel



Screws and MM-CC centring bosses in black-oxide steel.

They are compatible with MM-BI-NK pneumatic fastening clamps.

Dimensions: 98,5 - 140 - 168 - 192,5 mm

MM-FI-SC-NK

Long Y-shaped brackets for jaw block

Steel



Screws and MM-CC centring bosses in black-oxide steel.

They are compatible with MM-BI-NK pneumatic fastening clamps.

Dimensions: 115,5 - 163 - 198 - 232,5 mm











































15.6 Pneumatic fastening clamps continues

MM-FI-SCL-NK

Long I-shaped brackets for jaw blocks

Steel



Screws and MM-CC centring bosses in black-oxide steel.

They are compatible with MM-BI-NK pneumatic fastening clamps.

Dimensions: 115,5 - 163 - 198 - 232,5 mm

Grub screws

Ball terminal, steel



Black-oxide steel screw and nut. Zinc-plated steel washers. Hardened steel knurled flat-faced ball, non-reversible. They are compatible with the arms and clips, which in turn are compatible with MM-BL-NK, MM-Bl-NK or MM-BC-NK pneumatic fastening clamps.

MM-SC

Jaw blocks

Steel



They are compatible with the brackets, which in turn are compatible with MM-BL-NK, MM-BI-NK or MM-BC-NK pneumatic fastening clamps.

MM-GBK Shim Kit

For jaw blocks



Steel. The shims are used to correct any misalignments and facilitate the correct positioning of the MM-SC jaw blocks, in this way maximising the locking force. For each code a kit of 5 shims of different "s" sizes is supplied.

MM-SI

Proximity switches for pneumatic fastening clamps Inductive sensor



Polyamide-based technopolymer (PA) housing, polyurethane (PUR) connector, thermoplastic polyurethane (TPU) cable and nickel-plated brass nut. They allow the MM-BL-NK, MM-BI-NK or MM-BC-NK pneumatic fastening clamps to induce controlled signals that have as their output the lighting of three LEDs that signal the position of the arm.

MM-CS

Connector cable M12x1

For proximity switch MM-SI



Polyurethane (PUR) connector, black, thermoplastic polyurethane (TPU) cable, orange, and nickel-plated brass nut. Connector with housing and contact holder 4 pole M12x1. IP67 protection class and cables compatible with aggressive environments.

MM-CC

Centring bosses

Steel



In addition to ensuring the correct positioning of the jaw blocks, brackets and pneumatic fastening clamps, they also maintain the correct axiality of loads when clamping workpieces.

MM-SBA

Mounting brackets

for pneumatic fastening clamps



Anodised aluminium bracket, black colour. Screw and MM-CC centring bosses in black-oxide steel. Zinc-plated steel washers. They allow a quick and effective assembly of the MM-BL-NK, MM-BI-Nk or MM-BC-NK pneumatic fastening clamps for different applications.

MM-PTA

Rear protections

for pneumatic fastening clamps MM-BL-NK



Black anodised aluminium.
They prevent any processing residues or external bodies from penetrating inside the MM-BL-NK pneumatic fastening clamps.





15.7 Toggle-joint mechanisms



Material

Toggle-joint mechanisms

Steel



Rotating pins and support bosses made of hardened steel. They are very versatile as you can weld the different parts and accessories together, allowing you to build your own clamping tool.

Toggle-joint mechanisms

Steel



Rotating pins and support bosses made of hardened steel. They are very versatile as you can weld the different parts and accessories together, allowing you to build your own clamping tool.



Accessories for toggle-joint mechanisms



Red polyurethane handle. They are designed to optimise the use of toggle-joint mechanisms.

• Steel (4)

Steel

MGB.L Toggle-joint

mechanisms

Rotating pins and support bosses made of hardened steel. They are very versatile as you can weld the different parts and accessories together, allowing you to build your own clamping tool.

SHH. - SHH-SST

Bolts for toggle clamps

Steel or stainless steel



Zinc-plated steel or AISI 304 stainless steel

Spring bolts for toggle clamps

Steel



Nitrided steel base and flange. Zinc-plated steel rod with screwdriver socket for adjustment. Hardened harmonic steel spring.

Nuts in zinc-plated steel.

Material

15.8 Toggle clamp

accessories

• Technopolymer (2)

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- Steel (4)
- · Stainless steel (3)

SRH - SRH-SST

Bolts for toggle

clamps

Steel or stainless steel, rubber



Neoprene base in black, hardness 85 Shore A. Zinc-plated steel or AISI 304 stainless steel nuts.

SAH. - SAH-SST Bolts for toggle

clamps



AISI 304 stainless steel or zinc-plated steel base, threaded stem, and nuts.

INOX STAINLESS

NCH. Caps for bolts

Rubber



Black neoprene, hardness 85 Shore A.

NCN.

Caps for bolts

with threaded insert, steel and rubber



Black neoprene, hardness 85 Shore A. Zinc-plated steel threaded insert.





































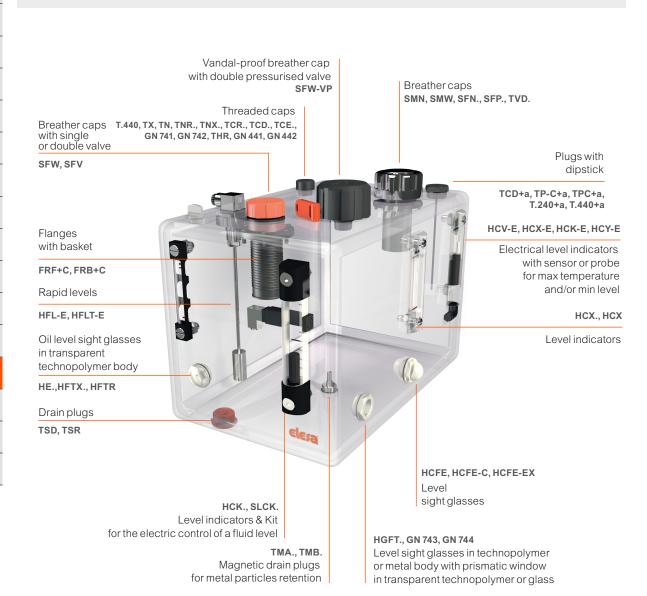








Components designed for a wide range of hydraulic system applications, available in various materials to withstand different liquids and oils, extreme temperatures, and environments with explosion risks.





■ ATEX

Compliant with ATEX European Directive







































16.1 Blanking plugs



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Material

- Technopolymer (26)
- · Duroplast (3)
- Steel (2)
- · Aluminium (7)
- · Stainless Steel (1)

Oil plugs

flat packing ring, technopolymer



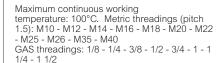
Standard executions: without or with side vent hole. Maximum continuous working temperature: 100°C. Metric threadings (pitch 1.5):M10 - M12 - M14 - M16 - M18 - M20 - M22 - M25 - M26 - M35 - M40. GAS threadings: 1/8 - 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2

Oil plugs for high pressure

O-Ring, SUPER-technopolymer



PA



Oil plugs

Polyethylene





Maximum continuous working Maximum Continuous working temperature: 60°C. Metric threadings: M8 - M10 - M12 - M14 - M16 - M18 - M20 - M22 - M24 - M25 - M26 - M27 - M28 - M30 - M32 - M33 - M36 - M38 - M42 - M45 - M48 - M52. GAS threadings: 1/8 - 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2 - 1 3/4 - 2

MH.

Label for plugs

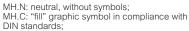
with fill or drain graphic symbol, aluminium











DIN standards; MH.S: "drain" graphic symbol in compliance with DIN standards. Maximum continuous working temperature: 100°C. Diameters: 15 - 17 - 20.5 - 25 - 31 mm

TN-EX

Plugs -ATEX Directive

flat packing ring, technopolymer





TN-EX plugs comply with Health and Safety Requirements defined in 2014/34/EU ATEX European Directive (explosive atmospheres) for equipments in Group II, category 2GD. GAS threadings: 3/8 - 1/2 - 3/4



Oil plugs for high pressure

O-Ring, technopolymer (polypropylene)



Maximum continuous working temperature: 80°C Metric threadings (pitch 1.5): M16 - M20 GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1

Oil plugs for high pressure

O-Ring, fill graphic symbol, SUPER-technopolymer





Maximum continuous working temperature: 100°C Metric threadings: M14 - M16 - M20 - M26 -M27 - M33 - M35 - M40 - M42 GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2

TCD.

Oil plugs

flat packing ring, fill graphic symbol, technopolymer





Maximum continuous working temperature: 100°C. Metric threadings (pitch 1.5): M10 - M12 - M14 - M16 - M18 - M20 - M22 - M25 - M26 - M35 - M40 GAS threadings: 1/8 - 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2



16.1 Blanking plugs continues

Oil plugs

flat packing ring, flat dipstick, fill graphic symbol, technopolymer



Flat dipstick in phosphated steel. Maximum continuous working temperature: 100°C. Metric threadings (pitch 1.5): M10 - M12 - M14 - M16 - M18 - M20 - M22 - M25 - M26 -M35 - M40. GAS threadings: 1/8 - 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2

Oil plugs

With side hole and anti-splash disc, technopolymer



PA

Maximum continuous working temperature: 100°C. Metric threadings (pitch 1.5): M16 - M18 - M20 - M25 - M26 - M35 GAS threadings: 3/8 - 1/2 - 3/4 - 1

PA

Oil plugs

flat packing ring, drain graphic symbol, technopolymer





Maximum continuous working temperature: 100°C. Metric threadings (pitch 1.5): M10 - M12 - M14 - M16 - M18 - M20 - M22 - M25 -M26 - M35 - M40 GAS threadings: 1/8 - 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2

Oil plugs for high pressure

O-Ring, drain graphic symbol, SUPER-technopolymer





Maximum continuous working temperature: 100°C

Metric threadings: M14 - M16 - M18 - M20 - M26 - M27 - M33 - M40 - M42 GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1

TMA.

Magnetic plugs

Aluminum



Permanent magnetic element made of a special alloy with high attraction power for the retention of any metal particles in the oil.

Maximum continuous working temperature:

Suitable for use with fuels (such as diesel and high octane petrol), alcohols, and weak organic acids. Metric threadings (pitch 1.5): M10 - M12 - M14 - M16 - M18 - M20 - M22

GAS threadings: 1/4 - 3/8 - 1/2 - 3/4

NBR or FKM rubber flat washer.

GAS threadings: 1/4 - 3/8 - 1/2 - 3/4

TMB.

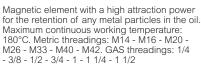
Magnetic plugs

Aluminum

1/4 - 1 1/2







DIN 908

Oil plugs

with hexagon socket, steel





Standard executions: without gasket, with flat gasket in copper or in aluminium.

Metric threadings: M8 - M10 - M12 - M14 - M16 M18 - M20 - M22 - M24 - M26 - M27 - M30 - M33
- M42 - M48. GAS threadings: 1/8 - 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2

GN 749

Oil plugs

PA

technopolymer

with hexagon socket,

Oil plugs for high pressure

with hexagon socket, steel



NBR synthetic rubber flat washer. Maximum continuous working temperature:

Metric threadings: M8 ÷ M48 GAS threadings: 1/8 - 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2

GN 741 Oil plugs

Aluminum



NBR synthetic rubber flat washer. Standard executions: natural or anodised aluminium in black. Maximum continuous working temperature: 100°C. Metric threadings: M14 -M16 - M20 - M26 - M33 - M42. GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2













16.1 Blanking plugs continues

GN 742 Oil plugs for high temperatures Aluminum



Flat washer in FKM. Standard executions: natural or anodised aluminium in black Maximum continuous working temperature: 180°C. Metric threadings: M14 - M16 - M20 - M26 - M33 - M42. GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2

THR.

PA

Oil plugs for manual tightening

O-Ring, technopolymer



Maximum continuous working temperature: 100°C GAS threadings: 1/2 - 3/4 - 1

THR-LP

Oil plugs for manual tightening

With O-Ring and retaining chain, technopolymer





Maximum continuous working temperature: 100°C NBR synthetic rubber O-Ring. GAS threadings: 1/2 - 3/4 - 1

GN 442 Oil plugs for high temperatures Aluminum



Natural aluminium or with epoxy resin coating, black colour, matte finish. Flat washer in FKM. Maximum continuous working temperature: 200°C. Metric threadings (pitch 1.5): M16 - M20 - M26

GAS threadings: 3/8 - 1/2 - 3/4 - 1

TP-C+a

PA

Push-fit plugs with flat dipstick,

fill symbol, technopolymer



Graphic symbol "fill", with or without side breather hole. Two NBR synthetic rubber O-Rings. Flat dipstick in phosphated steel. Maximum continuous working temperature: 100°C Diameters: 26 - 30 - 35 mm

GN 742.5

Oil plugs AISI 316L stainless steel



Flat washer in FKM. Standard executions: neutral, with load or unload symbol. Maximum continuous working temperature: 180°C. Metric threadings: M14 - M16 - M20 - M26 - M33

GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1

THR-RC

Oil plugs for manual tightening

With O-Ring and elastic fork, technopolymer





Maximum continuous working temperature: 100°C NBR synthetic rubber O-Ring. GAS threadings: 1/2 - 3/4 - 2

GN 441 Oil plugs

Aluminum



Natural aluminium or with epoxy resin coating, black colour, matte finish. NBR synthetic rubber flat washer. Maximum continuous working temperature: 100°C.

Metric threadings (pitch 1.5): M16 - M20 - M26 GAS threadings: 3/8 - 1/2 - 3/4 - 1

Push-fit plugs fill symbol,

technopolymer



Graphic symbol "fill", with or without side breather hole.

Two NBR synthetic rubber O-Rings. Maximum continuous working temperature:

Diameters: 20 - 26 - 30 - 35 mm

TP-C-LP Push-fit plugs

with retaining chain,

fill symbol, technopolymer





Graphic symbol "fill", with or without side breather hole. Two NBR synthetic rubber O-Rings. Maximum continuous working temperature: 60°C Diameters: 20 - 26 - 30 - 35 mm









































16.1 Blanking plugs continues

Push-fit plugs

with elastic fork, fill symbol, technopolymer



PA POM

Graphic symbol "fill", with or without side breather hole.

Two NBR synthetic rubber O-Rings. Maximum continuous working temperature: 100°C

Diameters: 20 - 26 - 30 - 35 mm

PA POM

TP-C+a-RC

Push-fit plugs

with elastic fork and

flat dipstick, fill symbol, technopolymer

Graphic symbol "fill", with or without side breather hole. Two NBR synthetic rubber O-Rings. Flat dipstick in phosphated steel. Maximum continuous working temperature: 100°C

Diameters: 26 - 30 - 35 mm



TPC. Oil fill plugs

for push-fit, technopolymer



PP

Graphic symbol "fill", with or without side breather hole. Two NBR synthetic rubber O-rings.

Maximum continuous working temperature: 100°C Diameters: 20 - 26 mm



Oil fill plugs

push-fit, flat dipstick, technopolymer



PP

Graphic symbol "fill", with or without side breather hole. Two NBR synthetic rubber O-rings. Flat dipstick in phosphated steel. Maximum continuous working temperature: 100°C.

Diameters: 20 - 26 mm

Oil plugs

Duroplast



PF

NBR synthetic rubber. Maximum continuous working temperature: 100°C GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2

T.240+a Oil plugs

with flat dipstick, Duroplast



PF

NBR synthetic rubber flat washer. Flat dipstick in phosphated steel.

Maximum continuous working temperature: 100°C

GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2

Oil plugs

Technopolymer



PA

NBR synthetic rubber flat washer. Maximum continuous working temperature: 100°C GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2

T.440+a

Oil plugs

with flat dipstick, technopolymer



PA

NBR synthetic rubber flat washer. Flat dipstick in phosphated steel. Maximum continuous working temperature: 100°C

GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2

T.270 Oil plugs

Duroplast





NBR synthetic rubber flat washer. Maximum continuous working temperature: 100°C GAS threadings: 1/2 - 3/4 - 1 - 1 1/4

Oil plugs Polyethylene

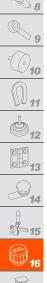




TX: without gasket. TX-G: with gasket. Maximum working temperature: 60°C
Metric threadings: M8 - M10 - M12 - M14 - M16 M18 - M20 - M22 - M24 - M25 - M26
GAS threadings: 1/8 - 1/4 - 3/8 - 1/2 - 5/8 - 3/4 7/8 - 1 - 1 1/4 - 1 1/2 - 2 - 3







16.1 Blanking plugs continues

Oil plugs Technopolymer





NBR synthetic rubber flat washer. Maximum continuous working temperature: 100°C Metric threadings (pitch 2): M60 GAS threadings: 1/2 - 3/4 - 1 - 1 1/4

16.2 Breather caps



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Material

- · Technopolymer (16)
- Technopolymer Steel (2)
- Steel (2)
- · Stainless steel (1)
- · Aluminium (1)

SFC. Breather cap

with sealing closure, technopolymer





Cover and threaded fitting in technopolymer. Air filter in "tech-foam" cross-linked polyurethane foam. The cover can be positioned in two different ways: vent position or closed position. Maximum continuous working temperature: 80°C. GAS threadings: 3/8

SFN-RT

Breather caps

for mounting on rubber tubes, technopolymer





Cover in black technopolymer. Technopolymer fitting with a quick-connection system that allows application on rubber tubes. Maximum continuous working temperature: 100°C.

Diameters: 40 - 70 mm.

SFP+a

Breather caps

with splash guard and flat dipstick, technopolymer





Cover in orange or black technopolymer. Black threaded fitting or quick bayonet connector. With or without air filter. Flat dipstick in phosphated steel. Maximum continuous working temperature: 100°C. Diameters: 30 - 40 - 57 - 70 mm. Metric threadings (pitch 1.5): M16 - M18 - M20 - M22. GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2 - 2

SFP+a-EX

Breather caps -ATEX Directive with splash quard

and flat dipstick, technopolymer



Cover in yellow technopolymer; black threaded fitting. With or without air filter. Maximum continuous working temperature: 80°C. Diameters: 30 - 40 mm GAS threadings: 3/8 - 1/2 - 3/4

Breather caps Technopolymer



Cover in orange or black technopolymer. Black technopolymer threaded fitting or quick bayonet connector in zinc-plated steel. With or without air filter. NBR synthetic rubber flat washer. Maximum continuous working temperature: 100°C. Diameters: 30 - 40 - 57 - 70 mm. Metric threadings (pitch 1.5): M12 - M14 - M16 - M18 - M20 - M22. GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2 - 2

Breather caps

with splash guard, technopolymer



PA

Cover in orange or black technopolymer. Black technopolymer threaded fitting or quick bayonet connector in zinc-plated steel. With or without air filter. NBR synthetic rubber flat washer. Maximum continuous working temperature: 100°C. Diameters: 30 - 40 - 57 - 70 mm. Metric threadings (pitch 1.5): M12 - M14 - M16 - M18 - M20 - M22. GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2 - 2

SFP-EX

Breather caps -**ATEX Directive**

with splash guard, technopolymer



 $\langle x3 \rangle$

Cover in yellow technopolymer; black threaded fitting. Splash guard with or without "tech-foam" air filter. NBR synthetic rubber flat washer. Maximum continuous working temperature: 80°C.

GAS threadings: 3/8 - 1/2 - 3/4

SFP-RT

Breather caps

for mounting on rubber tubes, with splash guard, technopolymer



Cover in black technopolymer. Technopolymer fitting with a quick-connection system that allows application on rubber tubes Maximum working temperature: 100°C. Diameters: 40 - 70 mm.





































16.2 Breather caps continues

Breather caps

with splash guard and retaining chain, technopolymer



POM PA

Orange technopolymer cover. Black technopolymer threaded fitting. With or without air filter. NBR synthetic rubber flat washer. Maximum continuous working temperature: 60°C. Diameters: 30 - 40 - 57 mm

GAS threadings: 3/8 - 1/2 - 3/4 - 1 - 1 1/4

Breather caps

with splash guard and elastic ring, technopolymer



POM PA

Orange technopolymer cover. Black technopolymer threaded fitting. With or without air filter. NBR synthetic rubber flat washer. Maximum continuous working temperature: 60°C. Diameters: 30 - 40 - 57 mm GAS threadings: 3/8 - 1/2 - 3/4 - 1 - 1 1/4

SFX.

Breather caps

with splash guard and external antisplash semi-discs, technopolymer



Cover in technopolymer. Threaded fitting and external anti-splash disk. NBR rubber flat washer. With or without air filter. Maximum continuous working temperature: 80°C. Diameters: 30 - 40 - 57 mm. GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/2. Metric threadings (pitch 1.5): M16 - M18 - M20 - M22 - M24 - M26 - M30.

SFX+a

PA

Breather caps with splash guard, external anti-splash semi-discs and dipstick, technopolymer



Cover in technopolymer; threaded fitting and external anti-splash disk. NBR rubber flat washer. Flat dipstick in phosphated steel. With or without air filter. Maximum continuous working temperature: 80°C. Diameters: 30 - 40 - 57 mm. GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2. Metric threadings (pitch 1.5): M16 - M18 - M20 - M22 - M24 - M26 - M30

PA

Breather caps

with female thread, splash guard, technopolymer



Cover in black technopolymer; black threaded fitting. NBR rubber flat washer.
Air filter in polyurethane foam.

Maximum working temperature: 100°C. GAS threads: 3/4

SFF+a

Breather caps

with female thread, splash guard, and dipstick, technopolymer





Cover in black technopolymer; black threaded fitting. NBR rubber flat washer. Air filter in polyurethane foam. Maximum working temperature: 100°C. GAS threadings: 3/4

SFN-PF+F

Breather cap

push-fit, technopolymer





Cover in orange technopolymer; black threaded fitting. Pressure fitting to tubes. Annular air filter in polyurethane foam. Maximum continuous working temperature: 100°C.

Diameter: 70 mm

Breather caps

with vacuum breaker valve, technopolymer





Red colour with EPDM synthetic rubber diaphragm gasket, green colour with FKM synthetic rubber diaphragm gasket. Maximum continuous working temperature: 50°C

GAS threading: 1 1/4

Valve breather caps

technopolymer



Cover in orange or black technopolymer. Black threaded fitting. NBR synthetic rubber flat washer. Valve: set to 10 mb or 100 mb. Maximum continuous working temperature: 100°C Metric threadings (pitch 1.5): M12 - M14 - M16 -M18 - M20 - M22.

GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1

Breather caps

with double valve, technopolymer





Cover in orange or black technopolymer. Threaded fitting or quick bayonet connector; air filter. Overpressure valve set at 0.350 bar. Inlet valve set at 0.030 bar. Maximum continuous working temperature: 100°C GAS threadings: 3/4 - 1 1/4 - 2







16.2 Breather caps

SFW-P

PA

Breather caps

double valve, with splash guard, technopolymer





Cover in orange technopolymer. Threaded fitting and air filter. Pressure relief valve set at 0.350 bar. Inlet valve set at 0.030 bar. Maximum continuous working temperature: 100°C. Threadings: M42 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2 - 2

SFW-VP

Breather caps

with double valve and vandal-proof device, technopolymer





Cover and threaded fitting in black technopolymer. Pressure relief valve set at 0.350 bar. Inlet valve set at 0.030 bar. Max. continuous working temperature: 100°C. Metric threading (pitch 2): M42 GAS threading: 3/4

SMN-BA - SMW-BA Breather caps

with double valve and bayonet assembly, steel



Overpressure valve and bayonet connection set at 0.350 bar and inlet valve set at 0.030 bar. Electro-galvanized steel filter basket. Maximum continuous working temperature: 100°C. Mounting by means of three or six M5x12 screws. Diameters: 47 - 81 mm

FRB+C

Flange with basket

for vertical mounting, bayonet cap, technopolymer



PP

Flange in zinc-plated steel for quick bayonet connection; technopolymer filter basket. Flat washer, cork impregnated MGS based rubber.

Assembly by means of six self-tapping screws. Diameter: 39 mm

PLRB+C

Side mount flange with basket

for bayonet cap, technopolymer





Technopolymer plate with NBR synthetic rubber gasket; zinc-plated steel flange with rapid bayonet connection; technopolymer filter basket.

Assembly by means of six self-tapping screws. Diameter: 39 mm

SFW-P+a

Breather caps

double valve, with splash guard and flat dipstick, technopolymer





Cover in orange technopolymer. Threaded fitting and air filter. Pressure relief valve set at 0.350 bar. Inlet valve set at 0.030 bar. Maximum continuous working temperature: 100°C. Threadings: M42 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2 - 2

SMN. - SMW.

Breather caps

with double valve and threaded connector, steel



Cover in chrome-plated steel; flange and threaded fitting in zinc-plated steel. NBR synthetic rubber flat washer. Overpressure valve set at 0.350 bar and inlet valve set at 0.030 bar. Maximum continuous working temperature: 100°C. GAS threadings: 1/4 - 3/4

FRF+C

Flange with basket for vertical mounting,

for vertical mounting threaded cap, technopolymer





Flange with threaded connection in technopolymer or zinc-plated steel for quick bayonet connection; technopolymer filter basket. Flat washer, cork impregnated MGS based rubber. Assembly by means of six self-tapping screws. GAS threading: 1 1/4

PLRF+C

Side mount flange with basket

for threaded cap, technopolymer





Technopolymer plate with NBR synthetic rubber gasket; zinc-plated steel flange with bayonet connection or technopolymer flange with threaded connection and cork flat washer; technopolymer filter basket.

GAS threading: 1 1/4

vith NBR synth

GN 7404 Breathable membrane filters

Aluminium or stainless steel





Protective filter in AISI 304 stainless steel. Breathable non-woven nylon membrane. NBR synthetic rubber flat washer. Maximum continuous working temperature: 100°C Metric threadings: M20 - M28 - M33 GAS threading: 1/2 - 3/4 - 1









































16.3 Oil level sight glasses



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Material

- · Technopolymer (13)
- · Stainless steel (3)
- · Aluminium (5)
- Brass (5)

Oil level sight glasses Technopolymer





Transparent technopolymer lens. With or without contrast screen. NBR synthetic rubber flat washer.

Maximum continuous working temperature: 100°C

GAS threadings: 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 2

GN 743

Oil level sight glasses Aluminum



With or without technopolymer reflector. Natural glass lens. NBR synthetic rubber flat washer. Maximum continuous working temperature: 100°C. Metric threadings (pitch 1.5): M14 - M16 - M20 - M26 - M27 - M33 - M40 - M42 GAS thread: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2

GN 743.2 Oil level sight glasses

Brass



Natural glass lens. NBR synthetic rubber flat washer. With or without technopolymer contrast screen. Maximum continuous working temperature: 100°C. Metric threadings (pitch 1.5): M16 - M20 - M26 - M27 - M33 GAS threadings: 3/8 - 1/2 - 3/4 - 1

GN 743.4

Oil level sight glasses Stainless steel





Natural glass lens. NBR synthetic rubber flat washer. With or without technopolymer reflector. Maximum continuous working temperature: 100°C. Metric threadings: M16 - M20 - M26 - M27 - M33 - M42

GAS threadings: 3/8 - 1/2 - 3/4 - 1 - 1 1/4

GN 743.10

Oil level sight glasses for high temperatures AISI 316L stainless steel





With or without reflector. ESG safety glass lens. Flat washer in FKM. Maximum continuous working temperature: 180°C.

Metric threadings (pitch 1.5): M16 - M20 - M26 - M33 - M42

GAS threading: 3/8 - 1/2 - 3/4 - 1 - 1 1/4

Oil level sight glasses - ATEX Directive

Technopolymer





Transparent technopolymer lens. With or without contrast screen. NBR synthetic rubber flat washer. They comply with the European ATEX Directive 94/9/EC. Maximum continuous working temperature: 80°C. GAS threadings: 3/8 - 1/2 - 3/4

GN 743.1

Oil level sight glasses for high temperatures Aluminum



With or without technopolymer reflector. ESG safety glass lens. FKM flat washer. Maximum Safety glass lens. FNM flat washer. Maximum continuous working temperature: 180°C. Metric threadings (pitch 1.5): M14 - M16 - M20 - M26 - M27 - M33 - M40 - M42. GAS threading: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2

GN 743.3

Oil level sight glasses for high temperatures Brass



ESG safety glass lens. FKM flat washer. With or without technopolymer contrast screen. Maximum continuous working temperature: 180°C. Metric threadings (pitch 1.5): M16 - M20 - M26 - M27 - M33 GAS threadings: 3/8 - 1/2 - 3/4 - 1

GN 743.5

Oil level sight glasses for high temperatures Stainless steel







GAS threadings: 3/8 - 1/2 - 3/4 - 1 - 1 1/4

GN 7440

M33 - M42

Oil level sight glasses for high temperatures AISI 316L stainless steel







With reflector. Glass window. Flat washer in FPM or in copper. Maximum continuous working temperature: 300° C

Metric threadings (pitch 1.5): M16 - M20 - M26 - M33 - M42

GAS threading: 3/8 - 1/2 - 3/4 - 1 - 1 1/4





16.3 Oil level sight glasses continues

GN 743.6 Oil level sight glasses Aluminum





ESG safety glass lens. FKM flat washer. They comply with the European ATEX Directive 2014/34/EU. Maximum continuous working temperature: 150°C. Metric threadings (pitch 1.5): M16 - M20 - M26 - M27 GAS threadings: 3/8 - 1/2 - 3/4

GN 743.8

Oil level sight glasses for high temperatures with conical threading, brass



ESG safety glass lens. With or without technopolymer contrast screen. Maximum continuous working temperature: 180°C. Conical threading: R3/8 - R1/2 - R3/4 - R1 - R1

GN 7403

Breather filters Aluminium or

stainless steel







AISI 304 stainless steel mesh filter with technopolymer surround. NBR synthetic rubber flat washer. Maximum continuous working temperature: 100°C. Metric threadings (pitch 1.5): M20 - M26 - M33. GAS threadings: 1/2 - 3/4 - 1

HGFT-HT-PR

Oil level sight glasses for high temperatures with prismatic window, technopolymer







Prismatic lens in transparent technopolymer with a sulfonic base. FKM flat washer. Maximum continuous working temperature: 140°C at 7 bar pressure. GAS threads: 1/2 - 3/4 - 1

Oil level sight glasses push-fit, technopolymer





Transparent technopolymer window. White lacquered aluminium contrast screen. NBR synthetic rubber O-Ring. Maximum continuous working temperature: 100°C Diameters: 28 - 36 - 42 - 64 mm

Oil level sight glasses with conical threading, brass



Lens in natural glass. With or without technopolymer contrast screen. Maximum continuous working temperature: 100°C.
Conical threading: R3/8 - R1/2 - R3/4 - R1 - R1

GN 7430

Mounting Nuts

Brass and AISI 316L stainless steel



Used for fitting the following indicators to reservoirs with thin walls. Metric threadings (pitch 1.5): M12 - M14 - M16 - M20 - M26 - M27 - M33 - M40 - M42 GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2 - 2

HGFT-PR

Oil level sight glasses

with prismatic window, technopolymer



Prismatic lens in transparent polyamide-based technopolymer. NBR synthetic rubber flat washer.

Maximum continuous working temperature: 100°C at 3 bar pressure. GAS threadings: 1/2 - 3/4 - 1 - 1 1/4

GN 744 Oil level sight glasses

Aluminum



Transparent technopolymer lens. NBR synthetic rubber flat washer. Maximum continuous working temperature: 110°C. Prismatic lens, neutral or with rim. Metric threadings (pitch 1.5): M20 - M26 - M27 - M33. GAS threadings: 1/2 - 3/4 - 1

Oil level sight glasses

push- fit, polycarbonate





White lacquered aluminium contrast screen with red level line. NBR synthetic rubber O-Ring. Maximum continuous working temperature: 100°C. These indicators are suitable for assembly on reservoirs with limited pressures.

Diameters: 18 - 21 - 28 - 32 - 38 - 43 - 47 mm









































16.3 Oil level sight glasses continues

Oil level sight glasses Transparent technopolymer





With or without star-shaped contrast screen in aluminium. NBR synthetic rubber flat washer. Maximum continuous working temperature: 100°C Metric threadings (pitch 1.5): M16 - M20 - M25 - M26 - M27 - M30 - M35 - M40 GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4

Oil level sight glasses - ATEX Directive

Technopolymer

PA-T





With or without star-shaped contrast screen in aluminium. NBR synthetic rubber flat washer. They comply with the European ATEX Directive 2014/34/EU. Metric threadings (pitch 1.5): M16 - M20 - M25 - M26 - M27 - M30 - M35 - M40 GAS threadings: 3/8 - 1/2 - 3/4 - 1 - 1 1/4

HFTX-PR

Oil level sight glasses with prismatic window, transparent technopolymer



PA-T

A continuous series of prisms provide a clear and immediate reading of the oil level due to refraction effect. NBR synthetic rubber flat washer. Maximum continuous working temperature: 100°C GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4

HFTX-HT-GL

Oil level sight glasses

Technopolymer with high chemical resistance also suitable for solutions with glycol





HT PPSU

A continuous series of prisms provide a clear and immediate reading of the oil level due to refraction effect. Flat washer in FKM, green colour. Maximum continuous working temperature: -40°C ÷ +150°C. Metric threadings (pitch 1.5): M16 - M20 - M26 GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4

PA-T

Oil level sight glasses for high clamping torque

with prismatic window, transparent technopolymer





A continuous series of prisms provide a clear and immediate reading of the oil level due to refraction effect. NBR synthetic rubber flat washer. Maximum continuous working temperature: 100°C GAS threadings: 1/2 - 3/4 - 1 - 1 1/4

Oil level sight glasses

Transparent technopolymer





NBR synthetic rubber flat washer. Maximum continuous working temperature: 100°C Metric threadings (pitch 1.5): M16 - M20 - M25 - M26 - M27 - M35 - M40 GAS threadings: 3/8 - 1/2 - 3/4 - 1 - 1 1/4

Oil level sight glasses

with index level check, transparent technopolymei





Oil level reading area delimited by a small black or red colour externally tampo-printed reference circle. NBR synthetic rubber flat washer. Maximum continuous working temperature: 100°C

GAS threadings: 1/2 - 3/4 - 1

HCFE-EX

Oil level sight glasses

- ATEX Directive

Transparent technopolymer





NBR synthetic rubber flat washer. Compliant with the Essential Health and Safety Requirements of the European ATÉX Directive 2014/34/EU. Maximum continuous working temperature: 80°C

GAS threadings: 3/8 - 1/2 - 3/4

PA-T

Mounting Nuts

for level indicator mounting on thin-walled tanks, nickel-plated brass



Used for fitting the following indicators to reservoirs with thin walls. Metric threadings (pitch 1.5): M12 - M14 - M16 - M20 - M25 - M26 - M27 - M30 - M33 - M35 - M40 - M42 GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1





























16.4 Level indicators



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Material

- · Technopolymer (18)
- Steel (1)
- · Stainless steel (7)

Level indicators

Transparent technopolymer







HCX: zinc-plated steel screws, nuts and washers; NBR synthetic rubber packing ring. HCX-SST: AISI 303 stainless steel screws, nuts and washers; FKM packing ring. HCX-VT: SUPER-technopolymer screws, AISI 304 stainless steel nuts and washers; NBR synthetic rubber packing ring.

Maximum continuous working temperature: Assembly centre distances: 76 - 127 - 254 mm

Level indicators Transparent

technopolymer, for use with fluids containing alcohol, high UV resistance









HCX-AR: zinc-plated steel screws, nuts and washers; NBR packing ring. HCX-AR-SST: AISI 304 stainless steel screws, nuts and washers; FKM packing ring.

HCX-AR-VT: SUPER-technopolymer screws, AISI 304 stainless steel nuts and washers; NBR packing ring.

Maximum continuous working temperature:

Assembly centre distances: 76 - 127 - 254 mm

HCX/T-AR Level indicators with thermometer

Transparent technopolymer, for use with fluids containing alcohol, high UV resistance









HCX/T-AR: zinc-plated steel screws, nuts and washers; NBR rubber packing ring. HCXT-AR-SST: AISI 304 stainless steel screws, nuts and washers; FKM packing ring. HCXT-AR-VT: SUPER-technopolymer screws, AISI 304 stainless steel nuts and washers; NBR synthetic rubber packing ring.

HCX/TB-AR: polished zinc-plated steel screws, nuts and washers, NBR packing ring. HCX-AR-SST: AISI 303 stainless steel screws, AISI 304 stainless steel nuts and washers, FKM packing ring.

Assembly centre distances: 76 - 127 - 254 mm

HCX-P Level indicators with protection frame

Zinc alloy and transparent technopolymer





Protection frame in zinc alloy.

Zinc-plated steel screws, nuts and washers. Step-shaped packing ring for the seal on the reservoir walls and NBR synthetic rubber O-ring screw underhead.

Maximum continuous working temperature:

Assembly centre distances: 127 mm

HCX/T-AR-P

Level indicators with thermometer and protection frame

Transparent technopolymer and zinc alloy, for use with fluids containing alcohol, high UV resistance





Protection frame in zinc alloy. Zinc-plated steel screws, nuts and washers.
Step-shaped packing ring for the seal on the reservoir walls and NBR synthetic rubber O-ring screw underhead.

White lacquered aluminium contrast screen. Incorporated thermometer for temperature reading of the liquid.

Maximum continuous working temperature: 90°C.

Assembly centre distances: 127 mm

HCX-PT

Level indicators with protection frame

SUPER-Technopolymer and transparent technopolymer







SUPER-technopolymer protection frame. HCX-PT: SUITE Laborators and washers; NBR packing ring.
HCX-PT-SST: AISI 303 stainless steel screws, nuts and washers; FKM packing ring.

HCX-PT-VT: SUPER-technopolymer screws, AISI 304 stainless steel nuts and washers; NBR packing ring. Assembly centre distances: 76 - 127 - 254 mm





































16.4 Level indicators continues

HCX/T-AR-PT

Level indicators with thermometer and protection frame

SUPER-Technopolymer and transparent technopolymer, for use with fluids containing alcohol, high UV resistance



















AISI 303 stainless steel screws, AISI 304 stainless steel nuts and washers. FKM O-ring packing rings.

White lacquered aluminium contrast screen. Maximum continuous working temperature: 80°C or 90°C

Assembly centre distances: 76 - 127 - 254 mm



SUPER-technopolymer protection frame. Incorporated thermometer for temperature reading of the liquid.

HCX/T-AR-PT: zinc-plated steel screws, nuts and washers; NBR packing ring. HCX/T-AR-SST: AISI 304 stainless steel screws, nuts and washers; FKM packing ring. HCX/T-AR-VT: SUPER-technopolymer screws, AISI 304 stainless steel nuts and washers; NBR packing ring. Assembly centre distances: 76 - 127 - 254 mm

HCX-LT Oil level indicators with float for indirect level reading

Transparent technopolymer. zinc-plated steel assembly screws





Zinc-plated steel screws, nuts and washers. NBR synthetic rubber O-ring packing rings. White lacquered aluminium contrast screen. Ebonite float, black.

Maximum continuous working temperature:

Assembly centre distances: 254 mm

Level indicators

Transparent technopolymer







Step-shaped packing ring for the seal on the reservoir walls and NBR synthetic rubber O-ring screw underhead.

HCZ: zinc-plated steel screws, nuts and washers.

HCZ-VT: SUPER-technopolymer screws, AISI 304 stainless steel nuts and washers. Maximum continuous working

temperature: 90°C

Assembly centre distances: 76 - 127 - 254 mm

HCZ-AR

Level indicators

Transparent technopolymer, for use with fluids containing alcohol, high UV resistance





Zinc-plated steel screws, nuts and washers. Step-shaped packing ring for the seal on the reservoir walls and NBR synthetic rubber O-ring screw underhead.

Maximum continuous working temperature: 90°C

Assembly centre distances: 76 - 127 - 254 mm

HCZ/T-AR

Level indicators with

thermometer Transparent

technopolymer, for use with fluids containing alcohol, high UV resistance







Step-shaped packing ring for the seal on the reservoir walls and NBR synthetic rubber O-ring screw underhead.

HCZ/T-AR: zinc-plated steel screws, nuts and

HCZ/T-AR-VT: SUPER-technopolymer screws, AISI 304 stainless steel nuts and washers. Incorporated thermometer for temperature reading of the liquid.

Assembly centre distances: 76 - 127 - 254 mm





16.4 Level indicators continues

Level indicators with protection frame

SUPER-Technopolymer and transparent technopolymer







SUPER-technopolymer protection frame. Step-shaped packing ring for the seal on the reservoir walls and NBR synthetic rubber

O-ring screw underhead. HCZ-PT: zinc-plated steel screws, nuts and washers.

HCZ-PT-VT: SUPER-technopolymer screws, AISI 304 stainless steel nuts and washers. Maximum continuous working temperature: 90°C

Assembly centre distances: 76 - 127 - 254 mm

HCK.

Level indicators

suitable for oil and glycol-based solutions







Technopolymer assembly ends. Aluminium support. Transparent polycarbonate tube. Screws, nuts and washers in zinc-plated steel; screws in AISI 303 stainless steel, nuts and washers in AISI 304 stainless steel; in AISI 316 stainless steel. NBR or FKM synthetic rubber O-Ring. With or without transparent polycarbonate front protection. With transparent borosilicate glass tube for use with oil, water or water/glycol solutions (50%) or with transparent polycarbonate tube for use with oil. Assembly centre distances: 76 - 127 - 176 - 254 - 381 - 508 mm

SLCK

Kit for the electric control of a fluid level

for HCK. oil level indicators





Bracket with male connector DIN 43650C or M12.

Electrical sensor - NO or NC.

Float and spacer sleeves in technopolymer. For applications with temperatures up to 80°C: polypropylene based (PP) technopolymer float. For applications with temperatures up to 120°C: polyamide based (PA) technopolymer float.

Level indicators with thermometer and protection frame

SUPER-Technopolymer and transparent technopolymer, for use with fluids containing alcohol, high UV resistance







SUPER-technopolymer protection frame. Step-shaped packing ring for the seal on the reservoir walls and NBR synthetic rubber O-ring screw underhead.

HCZ/T-AR-PT: zinc-plated steel screws, nuts and washers.

HCZ/T-AR-PT-VT: SUPER-technopolymer screws, AISI 304 stainless steel nuts and washers. Incorporated thermometer for temperature reading of the liquid. Assembly centre distances: 76 - 127 - 254 mm

HCK-PP Level indicators

suitable for acid or hase liquids





Technopolymer assembly ends.

Aluminium frame. Transparent polycarbonate front protection. Borosilicate glass transparent tube level column window.

White lacquered aluminium contrast screen. AISI 316 stainless steel screws, nuts and washers.

VMQ Red silicone packing rings. Produced from FDA compliant raw material (FDA CFR.21). Assembly centre distances: 76 - 127 - 176 -254 - 381 - 508 mm

Oil level indicators

with aluminium protection frame



Technopolymer assembly ends. Aluminium frame.

Aluminium protection frame in natural colour. Transparent polymethylmethacrylate tube level column window.

NBR synthetic rubber O-Ring. Graduated plastic contrast screen. Maximum continuous working temperature: 70°C.

Assembly centre distances: 300 - 400 - 500 mm







































16.5 Electrical level indicators



Material

- · Technopolymer (15)
- Steel (2)

Electrical level indicators

with MIN level electrical sensor, lateral output, transparent technopolymer





Zinc-plated steel screws, nuts and washers. Step-shaped packing ring for the seal on the reservoir walls and NBR synthetic rubber O-ring screw underhead.

Technopolymer float with magnetic element for contact activation.

Bracket with male or female connector in technopolymer.

Sensor with lateral or axial output.

Available with NO, NC or SW electrical contact. Assembly centre distances: 76 - 127 - 254 mm

HCV-E-S

Electrical level indicators

with MIN level electrical sensor, with temperature sensor or probe, side output, transparent technopolymer





Zinc-plated steel screws, nuts and washers. Step-shaped packing ring for the seal on the reservoir walls and NBR synthetic rubber O-ring screw underhead.

Technopolymer float with magnetic element for contact activation.

Bracket with male or female connector in technopolymer.

Sensor with lateral or axial output.

Available with NO or NC electrical contact.
Assembly centre distances: 76 - 127 - 254 mm

HCV-S

Electrical level indicators

with temperature sensor and probe, lateral output, transparent technopolymer





Zinc-plated steel screws, nuts and washers. Step-shaped packing ring for the seal on the reservoir walls and NBR synthetic rubber O-ring screw underhead.

Bracket with male or female connector in technopolymer.

Sensor with lateral or axial output. Available with NO or NC electrical contact. Assembly centre distances: 76 - 127 - 254 mm

HCK-E Electrical level indicators

with MIN level electrical sensor







Zinc-plated, AISI 304 or AISI 316 stainless steel screws, nuts, and washers.

Technopolymer assembly ends. Aluminium frame. Polycarbonate or glass transparent tube. Transparent polycarbonate front protection. NBR or FKM synthetic rubber O-Ring. Technopolymer float with magnetic element for contact activation.

Available with NO. NC or SW electrical contact. Bracket with male or female connector in technopolymer.

Assembly centre distances: 127 - 176 - 254 - 381 - 508 mm

HCK-E-S

Electrical level indicators

with MIN level electrical sensor, temperature sensor or probe





Zinc-plated, AISI 304 or AISI 316 stainless steel screws, nuts, and washers.

Technopolymer assembly ends. Aluminium frame. Polycarbonate or glass transparent tube. Transparent polycarbonate front protection. NBR or FKM synthetic rubber O-Ring. Technopolymer float with magnetic element for

contact activation.

Available with NO or NC electrical contact. Bracket with male or female connector in technopolymer.

Assembly centre distances: 127 - 176 - 254 - 381

- 508 mm

HCK-S

Electrical level

indicators

with temperature sensor or probe







Zinc-plated, AISI 304 or AISI 316 stainless steel screws, nuts, and washers.

Technopolymer assembly ends.

Aluminium frame.

Transparent polycarbonate or glass tube. Transparent polycarbonate front protection. NBR or FKM synthetic rubber O-Ring. Bracket with male or female connector in technopolymer.

Assembly centre distances: 127 - 176 - 254 -381 - 508 mm



16.5 Electrical level indicators continues

HCY-E Electrical level indicators

PA-T

with MIN level electrical sensor, transparent technopolymer



Nickel-plated brass screws. NBR synthetic rubber O-Ring. Red technopolymer float with magnetic element to activate the contact. Watertight sensor bracket with a built-in relay. Right side output connector. Available with electrical contact NO or NC.

Maximum continuous working temperature: 80°C

Assembly centre distances: 76 - 127 - 254 mm

HCY-E-ST Electrical level indicators

PA-T

with electrical sensors for MIN level and MAX temperature, transparent technopolymer



Nickel-plated brass screws. NBR synthetic rubber O-Ring. Red technopolymer float with magnetic element to activate the contact. MIN level electrical sensor.

MAX temperature electrical sensor (80°C) Right side output connector. Available with NO or NC electrical contact.

Technopolymer screw-covers. Assembly centre distances: 76 - 127 - 254 mm

FM Kit Fast Mounting Kit

Steel and rubber





Zinc-plated threaded nut. Packing ring NBR synthetic rubber.









































Flow indicators

16.6 Flow indicators



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Visual flow indicators

Technopolymer ends, transparent technopolymer





Glass lens; stainless steel pulling hooks; technopolymer shaft and helix rotor; NBR rubber gaskets; brass or stainless steel bosses with cylindrical gas thread. Maximum operating temperature: 100° C. Operation with bidirectional flow. GAS threads: 1/4 - 3/8 - 1/2

HVF-E

Visual flow indicators with flow-meter sensor

Technopolymer ends, transparent technopolymer



Glass lens; stainless steel pulling hooks; technopolymer shaft and helix rotor; NBR rubber gaskets; brass bosses with cylindrical gas thread. Maximum working temperature: 100°C. Operation with bi-directional flows. GAS threads: 3/8 - 1/2 - 3/4 - 1

Visual flow indicators with a flow meter sensor provide a clear visual signal of fluid movement within a tube. Commonly used in lubrication, refrigeration, heating, and water treatment systems across the chemical, food, and pharmaceutical industries, they are also available with a sensor for flow rate monitoring, enabling connection to a PLC.

The indicator can be mounted in any position and can function with two-way liquid flows.



Brass or AISI 316L stainless steel bushings with packing ring in synthetic rubber or VITON®. Cylindrical GAS or conical NPT GAS threading.



Axis and propeller rotor in technopolymer, red colour.

Technopolymer ends.



The inductive sensor (protection class IP 67), completely separated from the liquid passage area, reads the passage of the two metal clips mounted on the rotor, providing a frequency variation that can be transformed into a flow rate reading by connecting to a PLC.



Sensor activation clip in AISI 304 stainless steel.

Tubular lens

Borosilicate glass, high resistance, also suitable for use with solutions containing glycol. Clear visibility of flow from all angles.

16.7 Level sensors



HFL-E Rapid levels with float Technopolymer



Sensor connector with side output and reed contact. Mounting by means of zinc-plated steel flange or threaded connection. Maximum continuous working temperature: 80°C HFL-E rapid levels detect a predefined minimum or maximum level

HELT-E

Rapid levels with float

Technopolymer



Connector or without sensor with side output and reed contact. Mounting by means of zinc-plated steel flange or threaded connection. Maximum continuous working temperature: 80°C HFLT-E rapid levels detect a predefined minimum or maximum level.





16.8 Flexible coolant hoses



Modular system for lubrication

Kit with tubes with a diameter of 1/4, technopolymer





Kit components: One FHT modular tube, two FHJ threaded fittings, four FHN nozzles. The modular structure makes it possible to adjust and direct the lubricating jet with maximum flexibility while maintaining stability in operation even in the presence of vibrations

FHT Hoses

for flexible coolant hoses, technopolymer



POM

Blue BSPT conical threading or orange NPT conical threading.
Fitting to be implemented by means of snap

coupling with modular tubes.

FHN

Nozzles

for flexible coolant hoses, technopolymer



POM

Nozzle with single hole; nozzle with rectangular cross-section; nozzle with a joint head with sixteen holes. The use of nozzles allows the lubricating spray to be adjusted, concentrating it or distributing it on the surface concerned.

Sockets

for flexible coolant hoses, technopolymer



POM

Recommended for equipping a lubrication system with a threaded fitting both at the inlet and outlet of the modular tube.

Magnetic stand

for flexible coolant hoses, technopolymer



PA

Magnetic ferrite base. Nickel-plated brass cap and fitting. The stand allows you to use up to two 1/4" segments simultaneously; the magnet integrated in the structure allows the system to be anchored in multiple positions, also facilitating repeated movements.

Modular system for lubrication

Kit with tubes with a diameter of 1/2, technopolymer





Kit components: One FHT modular tube, two FHJ threaded fittings, four FHN nozzles. The modular structure makes it possible to adjust and direct the lubricating jet with maximum flexibility while maintaining stability in operation even in the presence of vibrations.

FHJ

Threaded fittings

for flexible coolant hoses, technopolymer



РОМ

Modular tubes, pre-assembled in segments or pre-assembled and wound along a coil. The modular structure, formed by means of the snap mounting of the individual segments, allows the lubricating jet to be directed as required.

Y fittings

for flexible coolant hoses, technopolymer



РОМ

Recommended for equipping a system for the lubrication of two different flows at the outlet, keeping only one at the inlet.

Ball valve

for flexible coolant hoses, technopolymer



РОМ

Indicated when the flow needs to be separated or interrupted within the system.











































A wide range of castors and wheels, suitable for manual (4 km/h) or mechanical (16 km/h) handling for trucks and equipment. The range includes wheels with fixed or turning plate bracket, with or without brakes; specific series designed for heavy loads; drive wheels and pallet truck rollers.

▼ Choosing the wheel

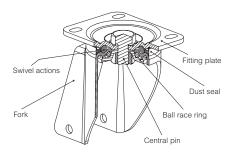
The following table summarizes some **general indications** for choosing the right wheels according to the **application's features**.

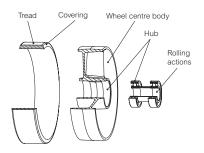
		 Recommended 				□ Tolerated		▲ Not recommended				
Selection parameters	Value range	RE.FF	RE.F2	RE.F5	RE.F5 -ESD	RE.F4	RE.F8	RE.G1	RE.E2	RE.E3	RE.G2	RE.G
Load capacity	Light load, up to 250 kg	•	•	•	•	•	•	•	•	•	•	•
	Medium load, up to 500 kg	•	•	•	•	•	•	A	A	A	•	•
	Heavy load, more than 500 kg	A	•	•	•	•		A	A	A	•	•
Rolling resistance	< 125 kg	•	•	•	•	•	•	•	•	•	•	•
	> 125 kg	•	•	•	•	•	•	A	A	A	•	•
Flooring	Tiles	•	•	•	•	•		•	•	•	•	•
	Asphalt		•				•		•	•	•	
	Cement - Resin	•	•	•	•	•	•	•	•	•	•	•
	Not paved		•						•	•	•	
	Expanded metal	A	•				A	A	•	•	•	
	With chips, obstacles, etc.	A					•	A	•	•	•	
Environmental chemical conditions	No aggressive chemicals	•	•	•	•	•	•	•	•	•	•	•
	With aggressive chemicals	•					•	•	A	A		
Temperature	-40° / -20°	A	A	A	A	A		A	A			•
	-20° / +80°	•	•	•	•	•	•	•	•	•	•	•
	+80° / +130°	A						A	A			
	> 130°	A	A	A	•	A	•	•	A	A	•	•
Means of traction	Manual (speed ≤ 4 Km/h)	•	•	•	•	•	•	•	•	•	•	•
	Mechanical (speed ≤ 16 Km/h)	A	•	•	•	•	A	A	A	A		•





■ GLOSSARY





17.1 Polyurethane castors and wheels



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Material

- Steel (17)
- · Stainless steel (2)

Carrying capacity

- 0 1400 N (10)
- 1401 2600 N (11)
- 2601 5000 N (13)
- 5001 10000 N (12) · 10001 - 25000 N (2)

Injected polyurethane castor wheels Technopolymer centre body with or without bearings,

injected polyurethane coating



Hub with pass-through hole or hub with ball bearings. Ideal solution for heavy loads and continuous moving with maximum silence. Excellent rolling resistance and elasticity features, good resistance to wear and tear. Wheel Ø: 80 - 100 - 125 - 150 - 200 mm

RE.FF-SST-N

Castors with stainless steel bracket

Injected polyurethane coating





Bracket in AISI 304 stainless steel sheet, fixed or swivel plate (also with central pass-through hole) with or without brake.

Excellent rolling resistance and elasticity features, good resistance to wear and tear. Wheel Ø: 80 - 100 - 125 - 150 - 200 mm

RE.C6

Castors for general use

Injected polyurethane coating





Technopolymer centre body. Zinc-plated steel sheet bracket, fixed or turning plate (also with centre pass-through hole or threaded pin) with or without brake. RE.C6-G: twin wheels version. Wheel Ø: 40 - 50 - 60 mm

RE.C6-G

Twin-castors for general use

Injected polyurethane coating



Bracket in zinc-plated steel sheet, swivel plate (also with central hole or threaded pin) with or without brake.

Excellent rolling resistance and elasticity features, good wear and tear resistance. Wheel Ø: 50 mm

RE.FF-N

bracket

Injected polyurethane coating

Hub with or without ball bearings. Bracket in zinc-plated steel sheet, fixed or swivel plate (also with central pass-through hole) with or without brake. Excellent rolling resistance and elasticity features, good resistance to wear and tear. Wheel \varnothing : 80 - 100 - 125 - 150 - 200 mm



Castors with adjustable foot

Steel support, injected polyurethane coating



Hub with pass-through hole. Bracket in zinc-plated steel sheet with swivel plate. Foot with technopolymer base and stem with adjustment hexagon in zinc-plated steel. Excellent rolling resistance and elasticity features, good wear and tearing resistance. Wheel Ø: 80 - 100 - 125 mm

RE.C6-C

Castors for general use

Injected polyurethane coating



Bracket in zinc-plated steel sheet, fixed or swivel plate (also with central hole or threaded pin) with or without brake.

Excellent rolling resistance and elasticity features, good wear and tear resistance. Wheel Ø: 40 - 50 - 60 mm

Injected polyurethane castor wheels

Technopolymer centre body



Hub with pass-through hole. Excellent rolling resistance and elasticity features, good wear and tear resistance. Wheel Ø: 80 - 100 - 125 - 150 - 200 mm



Castors with steel

































17.1 Polyurethane castors and wheels continues

RE.F1-N Castors with steel bracket

Injected polyurethane coating





Bracket in zinc-plated steel sheet, fixed or swivel plate (also with central pass-through

Excellent rolling resistance and elasticity features, good wear and tear resistance. Wheel Ø: 80 - 100 - 125 - 150 - 200 mm

hole) with or without brake.

RE.F5

Mould-on polyurethane castor wheels

Aluminium centre body



Hub with pass-through hole and ball bearings. Ideal solution for heavy loads and continuous moving.

Excellent rolling resistance and elasticity features, high wear and tear resistance. Wheel Ø: 80 - 100 - 125 - 150 - 200 mm

RE.F5-H Medium-heavy duty castors Mould-on polyurethane

coating





Hub with ball bearings. Ideal solution for heavy loads and continuous moving. Bracket in zinc-plated steel sheet, fixed or swivel plate, with or without brake. Excellent rolling resistance and elasticity features, high wear and tear resistance. Wheel \varnothing : 125 - 150 - 200 mm

RE.F5-N-ESD

Castors with steel bracket

FSD Mould-on polyurethane coating





Hub with shielded ball bearings. Bracket in zinc-plated steel sheet, fixed or swivel plate (also with central pass-through hole), with or without brake. Suitable for applications in "ESD PROTECTED AREAS" where all components sensitive to electrostatic discharges must be treated with the minimum risk of damage. Wheel Ø: 80 - 100 - 125 - 150 - 200 mm

RE.F4 Mould-on

polyurethane castor wheels Cast iron centre body





Hub with pass-through hole and ball bearings. Ideal solution for heavy loads and continuous moving or also as drive wheels. High wear and tear resistance.

Wheel Ø: 100 - 125 - 150 - 200 - 250 - 300 mm

RE.F1-SST-N

Castors with stainless steel bracket

Injected polyurethane coating





Bracket in AISI 304 stainless steel sheet, fixed or swivel plate (also with central pass-through hole) with or without brake.

Excellent rolling resistance and elasticity features, good wear and tear resistance. Wheel Ø: 80 - 100 - 125 - 150 - 200 mm

RE.F5-N

Castors with steel bracket

Mould-on polyurethane coating





Hub with ball bearings. Ideal solution for heavy loads and continuous moving. Bracket in zinc-plated steel sheet, fixed or swivel plate, with or without brake. Excellent rolling resistance and elasticity features, high wear and tear resistance. Wheel Ø: 80 - 100 - 125 - 150 - 200 mm

RE.F5-ESD ESD polyurethane castor wheels

Aluminium centre body





Hub with pass-through hole and shielded ball bearings. Excellent rolling resistance and elasticity features, high wear and tear resistance. Suitable for applications in "ESD PROTECTED AREAS" where all components sensitive to electrostatic discharges must be treated with the minimum risk of damage. Wheel Ø: 80 - 100 - 125 - 150 - 200 mm

RE.F5-H-ESD

Medium-heavy duty castors

FSD Mould-on polyurethane coating





Hub with shielded ball bearings. Bracket in zinc-plated steel sheet, fixed or swivel plate, with or without brake. Suitable for applications in "ESD PROTECTED AREAS" where all components sensitive to electrostatic discharges must be treated with the minimum risk of damage. Wheel Ø: 125 - 150 - 200 mm

RE.F4-H

Medium-heavy duty

Mould-on polyurethane coatina



Hub with ball bearings. Ideal solution for heavy loads and continuous moving. Bracket in zinc-plated steel sheet, fixed or swivel plate, with or without brake. Wheel Ø: 100 - 125 - 150 - 200 mm































17.1 Polyurethane castors and wheels

continues

RE.F4-WH

coating

Castors with bracket for heavy loads Mould-on polyurethane



Hub with ball bearings. Ideal solution for heavy loads and continuous moving. Bracket in zinc-plated steel sheet, fixed or swivel plate, with or without brake. Wheel Ø: 125 - 150 - 200 mm

RE.F4-WEH

Castors with bracket for extra-heavy loads Mould-on polyurethane

coating 10000 - 23000 N



Hub with ball bearings. Ideal solution for heavy loads and continuous moving. Bracket in zinc-plated steel sheet, fixed or swivel plate, with or without brake. Wheel Ø: 150 - 200 - 250 - 300 mm



RE.F2 Soft polyurethane castor wheels

3000 - 7000 N

Aluminium centre body



Hub with ball bearings. Ideal solution for heavy loads and continuous moving. Excellent rolling resistance and elasticity features, high wear and tear resistance. Wheel Ø: 100 - 125 - 160 - 200 mm





Hub with ball bearings. Ideal solution for heavy loads and continuous moving. Excellent rolling resistance and elasticity features, high wear and tear resistance. Wheel Ø: 80 - 82 - 85 mm

RE.F2-H Medium-heavy duty

Soft polyurethane coating

castors





Hub with ball bearings. Ideal solution for heavy loads and continuous moving. Bracket in zinc-plated steel sheet, fixed or swivel plate, with or without brake. Wheel Ø: 100 - 125 - 160 - 200 mm

RE.F2-N

Castors with steel bracket

Soft polyurethane coating



Hub with ball bearings. Ideal solution for heavy loads and continuous moving. Bracket in zinc-plated steel sheet, fixed or swivel plate, with or without brake. Excellent rolling resistance and elasticity features, high wear and tear resistance. Wheel Ø: 100 mm

RE.F2-WH

Castors with bracket for heavy loads Soft polyurethane

coatina



Hub with ball bearings. Ideal solution for heavy loads and continuous moving. Bracket in zinc-plated steel sheet, fixed or swivel plate, with or without brake. Wheel Ø: 160 - 200 mm

17.2 Technopolymer castors and wheels



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Technopolymer monolithic wheels Technopolymer



Hub with pass-through hole and ball bearings. Ideal solution for heavy loads and continuous

Excellent wear and tear resistance. Wheel Ø: 65 - 80 - 100 - 125 - 150 - 200 mm

RE.F8-N

Monolithic castor wheels with bracket Technopolymer





Bracket in zinc-plated steel sheet, fixed or swivel plate (also with central pass-through hole) with or without brake. Excéllent wear and tear resistance. Wheel Ø: 65 - 80 - 100 - 125 - 150 - 200 mm





































17.2 Technopolymer castors and wheels continues



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Material

- Steel (3)
- · Stainless steel (1)

Carrying capacity

- 0 1400 N (2)
- 1401 2600 N (4)
- 2601 5000 N (3)
- 5001 10000 N (3)

17.3 Rubber castors and wheels



elesa.com

Material

- Steel (6)
- · Stainless steel (1)

Carrying capacity

- 0 1400 N (10)
- 1401 2600 N (8)
- · 2601 5000 N (2)

RE.F8-SST-N

Monolithic castor wheels with stainless steel bracket

Technopolymer





Bracket in AISI 304 stainless steel sheet, fixed or swivel plate (also with central pass-through hole) with or without brake.

Excellent wear and tear resistance. Wheel Ø: 80 - 100 - 125 - 150 - 200 mm

RE.F8-WH

Castors with bracket for heavy loads Technopolymer





Hub with ball bearings. Ideal solution for heavy loads and continuous moving. Bracket in zinc-plated steel sheet, fixed or swivel plate, with or without brake. Excellent wear and tear resistance.

RE.G1

Thermoplastic rubber castor wheels

Wheel Ø: 125 - 150 - 200 mm

body



Excellent rolling resistance and elasticity

Technopolymer centre



Hub with pass-through hole. Wheel Ø: 80 - 100 - 125 - 150 mm

RE.G1-SST-N

Castors with stainless steel bracket

Thermoplastic rubber coating





Bracket in AISI 304 stainless steel sheet, fixed or swivel plate (also with central pass-through hole) with or without brake.

Excéllent rolling resistance and elasticity features

Wheel Ø: 80 - 100 - 125 mm

RE.F8-H

Medium-heavy duty castors

Technopolymer





Bracket in zinc-plated steel sheet, fixed or swivel plate, with or without brake. Excellent wear and tear resistance. Wheel Ø: 100 - 125 - 150 - 200 mm

RLE.F8-N

Monolithic castor wheels with adjustable feet

Steel bracket. technopolymer





Hub with pass-through hole. Bracket in zinc-plated steel sheet with swivel plate. Foot with technopolymer base and stem with adjustment hexagon in zinc-plated steel. Excellent wear and tear resistance. Wheel Ø: 80 - 100 - 125 mm

RE.G1-N Castors with steel bracket

Thermoplastic rubber

coating





Bracket in zinc-plated steel sheet, fixed or swivel plate (also with central pass-through hole) with or without brake. Excellent rolling resistance and elasticity

features

Wheel Ø: 80 - 100 - 125 - 150 mm

RE.E2

Vulcanised rubber castor wheels

Technopolymer centre body





Hub with pass-through hole. Suitable for medium-light loads and also for outdoor use e.g. industrial handling trolleys. Wheel Ø: 80 - 100 - 125 - 150 - 180 - 200 mm

RE.E2-N

Castors with steel bracket

Vulcanised rubber coatina





Bracket in zinc-plated steel sheet, fixed or swivel plate (also with central pass-through hole) with or without brake.

Suitable for medium-light loads and also for outdoor use e.g. industrial handling trolleys. Wheel Ø: 80 - 100 - 125 - 150 - 180 - 200 mm

Vulcanised rubber

castor wheels

Steel centre body



Hub with pass-through hole. Suitable for medium-light loads and also for outdoor use e.g. industrial handling trolleys. Wheel Ø: 80 - 100 - 125 - 150 - 200 mm

























17.3 Rubber castors and wheels continues

RE.E3-N Castors with steel bracket

Vulcanised rubber coating



Bracket in zinc-plated steel sheet, fixed or swivel plate (also with central pass-through hole) with or without brake.

Suitable for medium-light loads and also for outdoor use e.g. industrial handling trolleys. Wheel Ø: 80 - 100 - 125 - 150 - 200 mm

RE.G2-H Medium-heavy duty castors

Elastic rubber coating





Hub with ball bearings. Ideal solution for heavy loads and continuous moving. Bracket in zinc-plated steel sheet, fixed or swivel plate, with or without brake. Wheel Ø: 100 - 125 - 160 - 200 mm

RE.C7-C

Castors for general use

Vulcanised rubber coating





Bracket in zinc-plated steel sheet, fixed or swivel plate (also with central hole or threaded pin) with or without brake.

Excellent rolling resistance and elasticity features

Wheel Ø: 40 - 50 - 60 - 80 mm

17.4 Duroplast wheels



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RE.F7-N-HT

Monolithic castor wheels with steel bracket

Duroplast

high temperatures





Bracket in zinc-plated steel sheet, swivel plate (also with central pass-through hole), without brake. Resistance to high temperatures makes it suitable for use in food industries and cooking ovens, especially in the baking sector. Wheel Ø: 80 - 100 mm

Elastic rubber castor wheels

Aluminium centre body



Hub with ball bearings. Ideal solution for heavy loads and continuous moving. Wheel Ø: 100 - 125 - 160 - 200 mm



RE.C7 Castors for general use

Vulcanised rubber coating





Technopolymer centre body. Zinc-plated steel sheet bracket, fixed or turning plate (also with centre pass-through hole or threaded pin) with or without brake. RE.C7-G: twin wheels version. Wheel Ø: 40 - 50 - 60 - 80 mm

RE.C7-G

Twin-castors for general use Vulcanised rubber

coating



Bracket in zinc-plated steel sheet, swivel plate (also with central threaded pin) with or without brake.

Excellent rolling resistance and elasticity features

Wheel Ø: 50 - 75 mm

RE.F7-SST-N-HT

Monolithic castor wheels with stainless steel bracket

Duroplast.

high temperatures







Bracket in AISI 304 stainless steel sheet, swivel plate (also with central pass-through hole), without brake. Resistance to high temperatures makes it suitable for use in food industries and cooking ovens, especially in the baking sector. Wheel Ø: 80 - 100 mm





























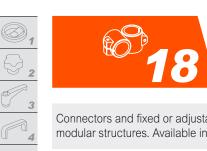












Tube connectors



Connectors and fixed or adjustable connection clamps for square and round section tubes for the building-up of light and modular structures. Available in aluminium or stainless steel with natural finish or with epoxy resin coating, black colour.

18.1 Connecting clamps for tubes



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Material

- Technopolymer (5)
- · Stainless steel (15)
- · Aluminium (32)

Type of tube

- Round (44)
- Square (15)
- Square-Round (5)

TCC-CR

Two-way connecting clamps

Technopolymer



STAINLESS STEEL

Black or grey colour.

Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment.

Self-locking nuts in AISI 304 stainless steel. Holes Ø: 18 - 30 mm

GN 131

Two-way connecting clamps

Aluminum



Natural or with epoxy resin coating, black

AISI 304 stainless steel screws and nuts. Special executions on request: different combinations of holes. Holes Ø: 10 - 12 - 14 - 15 - 16 - 18 mm

GN 132

Two-way connecting

clamps

Aluminum



Natural or with epoxy resin coating, black colour. AISI 304 stainless steel screws and nuts. Special executions on request: different combinations of holes.

Holes Ø: 20 - 25 - 30 - 32 - 35 - 40 - 42 - 45 - 48 - 50 - 55 - 60 mm

GN 133

Two-way connecting clamps

Aluminum



Natural or with epoxy resin coating, black colour.

AISI 304 stainless steel screws and nuts. Special executions on request: different combinations of holes.

Holes Ø: 20 - 25 - 30 - 40 - 42 - 45 - 48 - 50 mm

TCC-CR-VD

Two-way connecting clamps

Visually Detectable technopolymer



INOX STAINLESS STEEL





Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment. Self-locking nuts in AISI 304 stainless steel. Holes Ø: 18 - 30 mm

GN 131-NI

Two-way connecting clamps

Stainless steel





Cast AISI CF-8 stainless steel, sandblasted matte finish.

AISI 304 stainless steel screws and nuts. Special executions on request: different combinations of holes.

Holes Ø: 12 - 14 - 15 - 16 - 18 - 20 mm

GN 132.5

Two-way connecting

clamps

Stainless steel







Cast AISI CF-8 stainless steel, sandblasted matte finish.

AISI 304 stainless steel screws and nuts. With or without sealing washers in technopolymer.

Holes Ø: 30 - 50 mm

GN 134

Two-way connecting clamps

Aluminum



Natural or with epoxy resin coating, black colour. AISI 304 stainless steel screws and nuts. Available with square holes, round holes or combination of square and round holes. Holes Ø: 20 - 25 - 30 - 32 - 35 - 40 - 42 - 45 - 48 - 50 mm





18. Tube connectors

18.1 Connecting clamps for tubes continues

GN 134.7 Two-way connecting clamps

with locking device, aluminium



Aluminium, epoxy resin coating, black colour. AISI 304 stainless steel screws and nuts. With threaded hole; with ball and spring plunger, AISI 303 stainless steel; with spring positioning plunger and retracted position stop, AISI 303 stainless steel. AISI 303 stainless steel locking nut Holes: 25 - 30 - 40 - 50 mm

Two-way connecting clamps with mounting base Aluminum

GN 141

Natural or with epoxy resin coating, black colour.

AISI 304 stainless steel screws and nuts. Holes Ø: 20 - 25 - 30 - 40 - 42 - 45 - 50 mm

TCC-TB-VD

Connecting clamps with mounting plate

Visually Detectable technopolymer







Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). Cylindricalhead screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment. Self-locking nuts in AISI 304 stainless steel. Holes Ø: 18 - 30 mm

GN 145-NI

Connecting clamps with mounting base

Stainless steel



Cast AISI CF-8 stainless steel, sandblasted matte finish.

AISI 304 stainless steel screws and nuts. Holes Ø: 10 - 14 - 16 - 18 - 20 mm

GN 146.3

Connecting clamps with mounting base Aluminum



Natural or with epoxy resin coating, black colour.

AISI 304 stainless steel screws and nuts. Holes Ø: 20 - 25 - 30 - 32 - 35 - 40 mm

Two-way connecting clamps

Aluminum



Natural or with epoxy resin coating, black

AISI 304 stainless steel screws and nuts. Holes: 30 - 40 - 48 - 50 mm

TCC-TB

Connecting clamps with mounting plate Technopolymer







Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment

Self-locking nuts in AISI 304 stainless steel. Holes Ø: 18 - 30 mm

GN 145

Connecting clamps with mounting base Aluminum



Natural or with epoxy resin coating, black

AISI 304 stainless steel screws and nuts. Holes Ø: 10 - 12 - 14 - 15 - 16 - 18 - 20 mm

GN 146

Connecting clamps with mounting base





Natural or with epoxy resin coating, black

AISI 304 stainless steel screws and nuts. Holes Ø: 20 - 25 - 30 - 32 - 35 - 40 - 42 - 45 - 48 - 50 - 55 - 60 mm

GN 146.5 Connecting clamps

with mounting base Stainless steel





Cast AISI CF-8 stainless steel, sandblasted matte finish. AISI 304 stainless steel screw and washer. AISI 304 zinc-plated stainless steel nut. Base with 4 fixing holes without sealing washers and locking ring or with technopolymer sealing washers and silicone locking ring. Holes Ø: 30 - 50 mm









































18. Tube connectors

18.1 Connecting clamps for tubes continues

GN 146.6

Connecting clamps with mounting base

Stainless steel





Cast AISI CF-8 stainless steel, sandblasted matte finish. AISI 304 stainless steel screw and washer. AISI 304 zinc-plated stainless steel nut. Base with 4 fixing holes without sealing washers and locking ring or with technopolymer sealing washers and silicone locking ring. Holes Ø: 30 mm

Tube connectors with mounting base, aluminium



Natural aluminium with zinc-plated steel or AISI 304 stainless steel screws and locking nuts. Aluminium, epoxy resin coating, black, with zinc-plated steel or AISI 304 stainless steel screws and locking nuts. Holes: 20 - 25 - 30 - 40 - 45 - 48 - 50 mm

GN 147.3 Connecting clamps

with base Aluminum



Natural or with epoxy resin coating, black colour.

AISI 304 stainless steel screws and nuts. Round or square hole. Holes Ø: 20 - 25 - 30 mm

GN 147.7 Connecting clamps with base

with locking device, aluminium



Aluminium, epoxy resin coating, black colour. AISI 304 stainless steel screws and nuts. With threaded hole; with ball and spring plunger, AISI 303 stainless steel; with spring positioning plunger and retracted position stop, AISI 303 stainless steel. AISI 303 stainless steel locking nut Holes: 25 - 30 - 40 - 50 mm

TCC-AB

nnecting clamps with mounting base

Technopolymer





Black or grev colour.

Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment

Self-locking nuts in AISI 304 stainless steel. Holes Ø: 18 - 30 mm

TCC-AB-VD

Connecting clamps with mounting base

Visually Detectable technopolymer









Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment. Self-locking nuts in AISI 304 stainless steel. Holes Ø: 18 - 30 mm

GN 162

Connecting clamp bases

Aluminum



Aluminium, epoxy resin coating, black colour. AISI 304 stainless steel screws and nuts. Holes Ø: 10 - 12 - 14 - 15 - 16 - 18 mm

GN 162-NI

Connecting clamp bases

Stainless steel





Cast AISI CF-8 stainless steel, sandblasted

AISI 304 stainless steel screw and washer. Holes Ø: 12 - 14 - 15 - 16 - 18 - 20 mm

GN 162.3

Connecting clamp bases

Aluminum



Natural or with epoxy resin coating, black

AISI 304 stainless steel screws and nuts. Holes Ø: 10 - 12 - 14 - 15 - 16 - 18 mm

GN 162.3-NI

Connecting clamp bases

Stainless steel





Cast AISI CF-8 stainless steel, sandblasted matte finish.

AISI 304 stainless steel screw and washer. Holes Ø: 12 - 14 - 15 - 16 - 18 mm







18.1 Connecting clamps for tubes continues

GN 162.8 Connecting clamp bases

With grub screw, aluminum



Natural or with epoxy resin coating, black

AISI 304 stainless steel screws and nuts. Holes Ø: 10 - 12 - 14 - 15 - 16 - 18 mm

Aluminum

GN 163

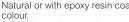
bases

Connecting clamp



Natural or with epoxy resin coating, black

AISI 304 stainless steel screws and nuts. Holes Ø: 20 - 25 - 30 - 32 - 35 - 40 - 42 - 45 - 48



- 50 - 60 mm

GN 163.5 Connecting clamp bases Stainless steel





Cast AISI CF-8 stainless steel, sandblasted matte finish. AISI 304 stainless steel screw and washer. AISI 304 zinc-plated stainless steel nut. Base with 4 fixing holes without sealing washers or with technopolymer sealing washers and silicone locking ring. Holes Ø: 30 - 50 mm

GN 165 Connecting clamp bases Aluminum



Natural or with epoxy resin coating, black colour.

AISI 304 stainless steel screws and nuts. Holes Ø: 20 - 25 - 30 - 40 - 42 - 45 - 48 - 50 mm

GN 166

Bases with eccentric axis for connecting clamps

Aluminum



Natural or with epoxy resin coating, black

AISI 304 stainless steel screws and nuts. Holes: 20 - 25 - 30 - 40 - 45 - 50 mm

GN 167 Connecting clamps bases with large support Aluminum



Natural or with epoxy resin coating, black colour.

AISI 304 stainless steel screws and nuts. Holes: 20 - 25 - 30 - 40 - 42 - 45 - 48 - 50 mm

GN 171

Side flanged bases with eccentric axis for connecting clamps Aluminum



Natural or with epoxy resin coating, black

AISI 304 stainless steel screws and nuts. Holes: 20 - 25 - 30 - 40 - 42 - 45 - 48 - 50 mm

TCC-TS

T-shaped connecting clamps

Technopolymer



Black or grey colour.

Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment.

Self-locking nuts in AISI 304 stainless steel. Holes Ø: 18 - 30 mm

TCC-TS-VD

T-shaped connecting clamps

Visually Detectable technopolymer



(VD)

Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment. Self-locking nuts in AISI 304 stainless steel. Holes Ø: 18 - 30 mm

TCC-TS-PR

Connecting clamps with connector for profiles

. Technopolymer and aluminium d







Side mounts in technopolymer, black or grey colour. Anodised aluminium tube, natural colour. Standard execution with one or two connecting clamps in technopolymer, black or grey colour. Mounting via pass-through holes for cylindrical-head screws with hexagon socket. Dimensions: 224 - 274 mm



































213

18.1 Connecting clamps for tubes continues

GN 191

T-shaped connecting clamps

Aluminum



Natural or with epoxy resin coating, black

AISI 304 stainless steel screws and nuts. Holes \emptyset : 10 - 12 - 14 - 15 - 16 - 18 mm

GN 191-NI

T-shaped connecting clamps

Stainless steel



Cast AISI CF-8 stainless steel, sandblasted matte finish

AISI 304 stainless steel screw and washer. Holes Ø: 12 - 14 - 15 - 16 - 18 - 20 mm

GN 192

T-shaped connecting clamps

Aluminum



Natural or with epoxy resin coating, black colour. AISI 304 stainless steel screws and nuts. Special executions on request: different combinations of holes.

Holes Ø: 20 - 25 - 30 - 32 - 35 - 40 - 42 - 45 - 48 - 50 - 55 - 60 mm

GN 192.5

T-shaped connecting clamps

Stainless steel







Cast AISI CF-8 stainless steel, sandblasted matte finish. AISI 304 stainless steel screw and washer. AISI 304 zinc-plated stainless steel nut. Without sealing washers or with technopolymer sealing washers and silicone locking ring. Holes Ø: 30 - 50 mm

GN 196

Angle Connector Clamps

Aluminum



Natural or with epoxy resin coating, black

AISI 304 stainless steel screws and nuts. Special executions on request: different combinations of holes. Holes Ø: 20 - 25 - 30 mm

GN 198 Angle Connector Clamps

Aluminum



Natural or with epoxy resin coating, black

AISI 304 stainless steel screws and nuts. Special executions on request: different combinations of holes. Holes Ø: 25 - 30 - 40 - 42 - 45 - 48 - 50 mm

GN 193

T-shaped connecting

clamps

Aluminum



Natural or with epoxy resin coating, black

AISI 304 stainless steel screws and nuts. Holes: 20 - 25 - 30 - 32 - 35 - 40 - 42 - 45 - 48 - 50 mm

GN 194

T-shaped connecting clamps

Aluminum



Natural or with epoxy resin coating, black

AISI 304 stainless steel screws and nuts. Holes: 20 - 25 - 30 - 35 - 40 - 45 - 50 mm

GN 195

T-shaped connecting clamps

Aluminum



Natural or with epoxy resin coating, black colour.

AISI 304 stainless steel screws and nuts. Holes: 20 - 25 - 30 - 32 - 35 - 40 - 42 - 45 - 48 - 50 mm

GN 231

Supports for round and square tubes

Aluminum





Natural aluminium with zinc-plated steel or AISI 304 stainless steel screws and locking nuts. Aluminium, epoxy resin coating, black, with zinc-plated steel or AISI 304 stainless steel screws and locking nuts. Holes: 8 - 10 - 12 - 14 - 15 - 16 - 18 - 20 - 25 - 30 -40 - 42 - 45 - 48 - 50 - 55 - 60 mm





18.1 Connecting clamps for tubes continues

GN 241 Supports for round and square tubes

Aluminum



Natural or with epoxy resin coating, black

AISI 304 stainless steel screws and nuts. Holes: 20 - 25 - 30 - 32 - 35 - 40 - 42 - 45 - 48 - 50 mm

TCC-SL-VD

Connecting clamps with sleeve

Visually Detectable technopolymer







Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment. Self-locking nuts in AISI 304 stainless steel. Holes Ø: 18 - 30 mm

GN 271.4 Sensor holders

Aluminum



Aluminium, epoxy resin coating, RAL 9005 black colour, matte finish. Holes Ø: 12 - 18 mm

GN 273.4 Sensor holders

Aluminum



Aluminium, epoxy resin coating, RAL 9005 black colour, matte finish. AISI 304 stainless steel screws and nuts. Holes Ø: 12 - 14 - 16 - 18 mm

GN 275.4 Sensor holders

Aluminum



Epoxy resin coating, black colour. AISI 304 stainless steel screws and nuts. Holes Ø: 12 - 14 - 15 - 16 - 18 mm

TCC-SL

Connecting clamps with sleeve

Technopolymer





Black or grey colour.
Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment.

Self-locking nuts in AISI 304 stainless steel. Holes \varnothing : 18 - 30 mm

GN 242

Sleeve supports for connecting tubes Aluminum



Natural or with epoxy resin coating, black colour.

AISI 304 stainless steel screws and nuts. Holes Ø: 20 - 25 - 30 - 32 - 35 - 40 - 42 - 45 -48 - 50 mm

GN 272.4 Sensor holders

Aluminum



Aluminium, epoxy resin coating, RAL 9005 black colour, matte finish. Holes Ø: 18 - 30 mm

GN 274.4

Sensor holders

Aluminum



Epoxy resin coating, black colour. AISI 304 stainless steel screws and nuts. Holes Ø: 20 - 25 - 30 mm









































18.2 Hinged joints for tubes



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Material

- Technopolymer (10)
- · Stainless steel (14)
- · Aluminium (18)

Type of tube

- Round (22)
- · Square (2)
- · Square-Round (1)

TCC-PBF

Mounting base for hinged joints

Technopolymer





Black or grey colour. Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment. Self-locking nuts in AISI 304 stainless steel. Standard executions with or without external toothing. Holes Ø: 18 - 30 mm

GN 271

Pivoting connecting clamp bases





Aluminium, epoxy resin coating, RAL 9005 black colour, matte finish. Width: 25 mm

Aluminum





GN 273



Cast AISI CF-8 stainless steel, sandblasted matte finish. Width: 25 mm

Black or grey colour. Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment. Self-locking nuts in

AISI 304 stainless steel. Standard executions

with or without external toothing. Holes Ø: 18 - 30 mm

GN 272

Pivoting connecting clamp bases

Aluminum



Natural aluminium or black epoxy resin coating, with raised centring ring or with raised or recessed reference teeth. Widths: 40 - 65 mm

Sensor Holders

Mounting base for

hinged joints

Technopolymer

PA

GN 271-NI

clamp bases

Stainless steel

Pivoting connecting

Aluminum



Natural or with epoxy resin coating, black

AISI 304 stainless steel screws and nuts. Holes Ø: 12 - 14 - 16 - 18 mm

GN 273-NI

Sensor Holders

Stainless steel





Cast AISI CF-8 stainless steel, sandblasted

Holes Ø: 12 - 14 - 15 - 16 - 18 - 20 mm

GN 274

Sensor Holders Aluminum



Natural aluminium or with black epoxy resin coating, with raised centring ring or with raised or recessed reference toothing. AISI 304 stainless steel screws and nuts.

Holes Ø: 20 - 25 - 30 - 40 - 42 - 45 - 48 - 50 mm

TCC-AP

Clamps for hinged joints

Technopolymer





Black or grey colour. Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment. Self-locking nuts in AISI 304 stainless steel. Standard executions without or with external or internal toothing. Holes Ø: 18 - 30 mm

GN 275

Sensor Holders

Aluminum



Natural or with epoxy resin coating, black

AISI 304 stainless steel screw and nut. Holes Ø: 12 - 14 - 16 - 18 mm









18.2 Hinged joints for tubes continues

GN 275-NI Sensor Holders

Stainless steel





Cast AISI CF-8 stainless steel, sandblasted matte finish.

AISI 304 stainless steel screw and nut. Holes Ø: 12 - 14 - 15 - 16 - 18 - 20 mm

GN 276.4

Device clamps

Aluminum



Epoxy resin coating, black colour. AISI 304 stainless steel screw and nut. Holes Ø: 20 - 25 - 30 mm

GN 277 Sensor Holders

Aluminum



Natural or with epoxy resin coating, black

AISI 304 stainless steel screws and nuts. Holes Ø: 12 - 14 - 16 - 18 mm

GN 277.4 Device clamps

Aluminum



Epoxy resin coating, black colour. AISI 304 stainless steel screws and nuts. Holes Ø: 12 - 14 - 15 - 16 - 18 mm

GN 278.4 Device clamps

Aluminum



Epoxy resin coating, black colour. AISI 304 stainless steel screws and nut. Holes Ø: 20 - 25 - 30 mm

GN 276 Sensor Holders

Aluminum



Natural aluminium or with black epoxy resin coating, with raised centring ring or with raised or recessed reference toothing.

AISI 304 stainless steel screw and nut. Holes Ø: 20 - 25 - 30 - 40 - 42 - 45 - 48 - 50 mm

TCC-TP

Clamps for hinged joints

Technopolymer



PA

Black or grey colour. Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment. Self-locking nuts in AISI 304 stainless steel. Standard executions without or with external or internal toothing. Holes Ø: 18 - 30 mm

GN 277-NI

Sensor Holders

Stainless steel



Cast AISI CF-8 stainless steel, sandblasted matte finish.

AISI 304 stainless steel screw and nut. Holes Ø: 12 - 14 - 15 - 16 - 18 - 20 mm

GN 278

Sensor Holders

Aluminum



Natural aluminium or with black epoxy resin coating, with raised centring ring or with raised or recessed reference toothing.

AISI 304 stainless steel screws and nuts. Holes Ø: 20 - 25 - 30 - 40 - 42 - 45 - 48 - 50 mm

GN 279 Sensor Holders

Aluminum



Natural or with epoxy resin coating, black

AISI 304 stainless steel screws and nuts. Holes: 40 - 42 - 45 - 48 - 50 mm









































217

18.2 Hinged joints for tubes continues

TCC-TP-PBF

Hinged joint with mounting base and clamp

Technopolymer





with anti-seizure treatment. Self-locking nuts in AISI 304 stainless steel. Standard executions with or without toothing. Holes Ø: 18 - 30 mm



Hinged joint with mounting base and clamp

Technopolymer





Black or grey colour. Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment. Self-locking nuts in AISI 304 stainless steel. Standard executions with or without toothing. Holes Ø: 18 - 30 mm



Hinged joint with mounting base and clamp

Technopolymer







Self-locking nuts in AISI 304 stainless steel. Standard executions with or without toothing. Holes Ø: 18 - 30 mm

TCC-AP-PB

Hinged joint with mounting base and clamp

Technopolymer





Black or grey colour. Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment. Self-locking nuts in AISI 304 stainless steel. Standard executions with or without toothing. Holes Ø: 18 - 30 mm

GN 281

Sensor Holders

Aluminum





Natural or with epoxy resin coating, black

AISI 304 stainless steel screws and nuts. Holes Ø: 12 - 14 - 16 - 18 mm

GN 282 Sensor Holders

Aluminum



Natural aluminium or with black epoxy resin coating, with continuous adjustment or in 15° increases.

AISI 304 stainless steel screws and nuts. Holes Ø: 20 - 25 - 30 - 40 - 42 - 45 - 48 - 50 mm

GN 283

Sensor Holders

Aluminum



Natural or with epoxy resin coating, black

AISI 304 stainless steel screws and nuts. Holes Ø: 12 - 14 - 16 - 18 mm

GN 284 Sensor Holders

Aluminum



Natural aluminium or with black epoxy resin coating, with continuous adjustment or in 15° increases.

AISI 304 stainless steel screws and nuts. Holes Ø: 20 - 25 - 30 - 40 - 42 - 45 - 48 - 50 mm

TCC-AP-AP

clamps



Black or grey colour. Cylindrical-head screw

Standard executions with or without toothing.

GN 285

Sensor Holders

Aluminum



Natural or with epoxy resin coating, black

AISI 304 stainless steel screws and nuts. Holes Ø: 12 - 14 - 16 - 18 mm



Hinged joints with Technopolymer





with hexagon socket in AISI 304 stainless steel with anti-seizure treatment. Self-locking nuts in AISI 304 stainless steel.

Holes Ø: 18 - 30 mm







18.2 Hinged joints for tubes continues

GN 286 Sensor Holders Aluminum



Natural aluminium or with black epoxy resin coating, with continuous adjustment or in 15° increases.

AISI 304 stainless steel screws and nuts. Holes Ø: 20 - 25 - 30 - 40 - 42 - 45 - 48 - 50 mm

GN 287 Sensor Holders

Aluminum



Natural or with epoxy resin coating, black colour.

AISI 304 stainless steel screws and nuts. Holes Ø: 12 - 14 - 16 - 18 mm

GN 289 Sensor Holders

Aluminum



Natural or with epoxy resin coating, black

AISI 304 stainless steel screws and nuts. Holes Ø: 20 - 25 - 30 - 40 - 42 - 45 - 48 - 50 mm





PA

The reduction boss fits into the housing hole of the TCC clamps so that smaller round or square tubes can be used.

Holes Ø: 12 - 14 - 15 - 16 - 20 - 25 mm Square holes: 10 - 12 - 20 mm

Material

- · Technopolymer (2)
- · Stainless steel (4)
- · Aluminium (3)
- · Die-cast zinc alloy (1)

18.3 Tubes and accessories

Type of tube

- Round (2)
- · Square (2)

TCC-KS

Clamping kit for TCC Technopolymer



Recessed and wing nut handle and spacer

bushing in technopolymer. Self-locking nut in AISI 304 stainless steel. Standard executions: recessed handle or clamping wing nut with threaded stud in AISI 303 stainless steel. Threadings: M6 - M8

TCC-AP-TP

Hinged joints with clamps

Technopolymer





Black or grey colour. Cylindrical-head screw with hexagon socket in AISI 304 stainless steel with anti-seizure treatment.

Self-locking nuts in AISI 304 stainless steel. Standard executions with or without toothing. Holes Ø: 18 - 30 mm

GN 288

Sensor Holders

Aluminum



Natural aluminium or with black epoxy resin coating, with continuous adjustment or in 15° increases

AISI 304 stainless steel screws and nuts. Holes Ø: 20 - 25 - 30 - 40 - 42 - 45 - 48 - 50 mm







































Hole reduction sleeve for TCC-VD clamps,

Visually Detectable technopolymer

TCC-A-VD





Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011). The reduction boss fits into the housing hole of the TCC clamps so that smaller round or square tubes can be used. Holes Ø: 12 - 14 - 15 - 16 - 20 -25 mm. Square holes: 10 - 12 - 20 mm

TCC-KV

Screws and nuts for TCC

Stainless steel





Cylindrical-head screw with hexagon socket with anti-seizure treatment and self-locking nut. Threadings: M6 - M8

18.3 Tubes and accessories continues

GN 990

Connecting tubes

Aluminium and stainless steel



Aluminium or AISI 304 stainless steel, round or square cross-section.

GN 992

Threaded hole end-caps for tubes

Aluminum



For round and square tubes. Special executions on request: terminals for tubes in AISI 303 stainless steel. Holes Ø: 20 - 25 - 30 - 32 - 35 - 40 - 42 - 45 -48 - 50 mm

GN 911

Clamping kit

Zinc alloy and stainless steel



Die-cast zinc alloy lever, epoxy resin coating. AISI 303 stainless steel clamping element with retaining screw.

AISI 303 stainless steel return spring. Threadings: M6 - M8 - M10

GN 911.3 Clamping kit





Cast CF-8 stainless steel lever, sandblasted matte finish.

AISI 303 stainless steel clamping element with retaining screw.
AISI 301 stainless steel return spring.

Threadings: M6

GN 197

Monitor mounts

Aluminum



Connector stud in aluminium, finely turned.

Diameters: 18 - 20 - 25 - 30 - 40 - 50 mm



AISI 304 stainless steel or nickel-plated brass

18.4 Tube connectors for linear actuators



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Material

- · Stainless steel (5)
- · Aluminium (16)

Type of tube

- Round (30)
- Square (5)
- · Square-Round (3)

GN 274.1

Sensor Holders

for linear actuators, aluminium



Epoxy resin coating, black colour. AISI 304 stainless steel screws and nut. Standard executions: without centring ring or with raised centring ring; with raised or recessed reference toothing. Hole d1: without sliding bushing or with technopolymer sliding bushing. Holes Ø: 30 - 40 - 50 mm

GN 131.1

Two-way connecting

for linear actuators, aluminium



Epoxy resin coating, black colour. AISI 304 stainless steel screws and nuts. With or without technopolymer sliding bushings. Holes Ø: 18 mm

GN 278.1

Device clamps

for linear actuators, aluminium



Epoxy resin coating, black colour. AISI 304 stainless steel screws and nuts. With or without technopolymer sliding bushings. Holes Ø: 30 - 40 - 50 mm

GN 131.1-NI

Two-way connecting







Cast AISI CF-8 stainless steel, sandblasted matte finish.

AISI 304 stainless steel screws and nuts. Sliding bushing in technopolymer. Holes Ø: 18 mm





18.4 Tube connectors for linear actuators continues

GN 131.2

Two-way connecting clamps

for linear actuators, aluminium



Epoxy resin coating, black colour. AISI 304 stainless steel screws and nuts. Without bushing or with sliding bushings in technopolymer. Holes Ø: 18 mm

GN 132.1

Two-way connecting clamps

for linear actuators. aluminium



Epoxy resin coating, black colour.
AISI 304 stainless steel screws and nuts. Without bushings or with sliding bushing in technopolymer. Holes Ø: 30 - 40 - 50 - 60 mm

GN 132.15

Two-way connecting clamps

for linear actuators, for One-Axis System, stainless steel





Cast AISI CF-8 stainless steel, sandblasted matte finish.

AISI 304 stainless steel screws and nuts. With or without sealing washers in technopolymer. Holes Ø: 30 - 50 mm

GN 133.1

Two-way connecting

clamps

for linear actuators for One-Axis System, aluminium



Epoxy resin coating, black colour. AISI 304 stainless steel screws and nuts. With or without technopolymer sliding bushings. Holes Ø: 30 - 50 mm

GN 145.1

Connecting clamps with mounting base for linear actuators,

aluminium



Epoxy resin coating, black colour. AISI 304 stainless steel screw and nut. With or without technopolymer sliding bushings. Holes Ø: 18 mm

GN 131.2-NI

Two-way connecting clamps

for linear actuators. stainless steel



Cast AISI CF-8 stainless steel, sandblasted matte finish.

AISI 304 stainless steel screws and nuts. Sliding bushings in technopolymer. Holes Ø: 18 mm

GN 132.2

Two-way connecting clamps

for linear actuators. aluminium



Epoxy resin coating, black colour.
AISI 304 stainless steel screws and nuts. With or without technopolymer sliding bushings. Holes Ø: 30 - 40 - 50 - 60 mm

GN 132.25

Two-way connecting clamps

for linear actuators. for two-axis systems, stainless steel





AISI 304 stainless steel screws and nuts. With or without sealing washers in technopolymer. Holes Ø: 30 - 50 mm

GN 133.2

Two-way connecting clamps

for linear actuators.

for Two-Axis System, aluminium



Epoxy resin coating, black colour. AISI 304 stainless steel screws and nuts. With or without technopolymer sliding bushings. Holes Ø: 30 - 50 mm

GN 145.1-NI Connecting clamps with mounting base

for linear actuators, stainless steel





Cast AISI CF-8 stainless steel, sandblasted matte finish.

AISI 304 stainless steel screw and nut. Sliding bushing in technopolymer. Holes Ø: 18 mm









































18.4 Tube connectors for linear actuators continues

GN 146.1 Connecting clamps with mounting base for linear actuators, aluminium



Epoxy resin coating, black colour. AISI 304 stainless steel screws and nuts. With or without technopolymer sliding bushing. Holes \emptyset : 30 - 40 - 50 - 60 mm

GN 146.15 Connecting clamps with mounting base

for linear actuators. stainless steel



Cast in AISI CF-8 stainless steel. Base with 4 fixing holes without sealing washers and locking ring or with technopolymer sealing washers and silicone locking ring. Holes Ø: 30 - 50 mm

GN 146.16

Connecting clamps with mounting base for linear actuators,





Cast in AISI CF-8 stainless steel. Base with 2 fixing holes without sealing washers and locking ring or with technopolymer sealing washers and silicone locking ring. Holes Ø: 30 mm

GN 146.13 Connecting clamps

with mounting base for linear actuators, aluminium



Epoxy resin coating, black colour. AISI 304 stainless steel screws and nuts. With or without technopolymer sliding bushing. Holes Ø: 30 - 40 mm

GN 134.1 Two-way connecting clamps

for linear actuators. aluminium



Epoxy resin coating, black colour. AISI 304 stainless steel screws and nuts. Connector nut in natural steel. Standard executions: two round holes; round hole and square hole; two square holes and a connecting nut; square hole complete with connector nut and round hole. Holes Ø: 30 - 40 - 50 mm

GN 134.2 Two-way connecting clamps

for linear actuators, for Two-Axis System, aluminium



Epoxy resin coating, black colour. AISI 304 stainless steel screws and nuts. Two round holes; round hole and square hole; two square holes. Holes Ø: 30 - 40 - 50 mm

GN 135.1 Two-way connecting clamps

for linear actuators, aluminium



Epoxy resin coating, black colour. AISI 304 stainless steel screws and nuts. Connector nut in natural steel. Standard executions: two round holes; round hole and square hole; two square holes and a connecting nut; square hole complete with connector nut and round hole. Holes Ø: 30 - 40 - 50 mm

GN 147.1 Connecting clamps with base

for linear actuators, aluminium



Epoxy resin coating, black colour. AISI 304 stainless steel screws and nuts. Connector nut in natural steel. Holes: 30 - 40 - 50 mm

GN 165.1 Connecting clamps with base

for linear actuators. aluminium



Epoxy resin coating, black colour. AISI 304 stainless steel screws and nuts. Connector nut in natural steel. Holes: 30 - 40 - 50 mm

GN 162.1 Bases for linear actuators Aluminum



Epoxy resin coating, black colour. AISI 304 stainless steel screw and nut. With or without technopolymer sliding bushing. Holes Ø: 18 mm





18.4 Tube connectors for linear actuators continues

GN 162.1-NI Bases for linear actuators

Stainless steel



Cast AISI CF-8 stainless steel, sandblasted matte finish.

AISI 304 stainless steel screw and nut. Sliding bushing in technopolymer. Holes \emptyset : 18 mm

GN 163.15 Bases for linear actuators Stainless steel



Cast AISI CF-8 stainless steel, sandblasted matte finish. AISI 304 stainless steel screws and nuts.

With or without sealing washers in technopolymer. Holes Ø: 30 - 50 mm

GN 191.1-NI T-shaped connecting clamps for linear actuators

stainless steel



Cast AISI CF-8 stainless steel, sandblasted matte finish.

AISI 304 stainless steel screws and nuts. Sliding bushing in technopolymer. Holes Ø: 18 mm

GN 192.15 T-shaped connecting clamps

for linear actuators. stainless steel



INOX STAINLESS

Cast AISI CF-8 stainless steel, sandblasted

Stainless steel screw, washer, and nut. Without sealing washers or with technopolymer sealing washers and silicone locking ring. Holes Ø: 30 - 50 mm

GN 277.1 Device clamps for linear actuators, aluminium



Epoxy resin coating, black colour. AISI 304 stainless steel screws and nuts. With or without technopolymer sliding bushings. Holes Ø: 18 mm

GN 163.1 Bases for linear actuators Aluminum



Epoxy resin coating, black colour. AISI 304 stainless steel screws and nuts. With or without technopolymer sliding bushing. Holes Ø: 30 - 40 - 50 - 60 mm

GN 191.1 T-shaped connecting clamps

for linear actuators, aluminium



Epoxy resin coating, black colour.
AISI 304 stainless steel screws and nuts. With or without technopolymer sliding bushings. Holes Ø: 18 mm

GN 192.1 T-shaped connecting clamps

for linear actuators, aluminium



Natural or with epoxy resin coating, black colour.

AISI 304 stainless steel screws and nuts. Without sliding bushing or with technopolymer sliding bushing. Holes Ø: 18 mm

GN 273.1 Sensor Holders

for linear actuators, aluminium



Epoxy resin coating, black colour. AISI 304 stainless steel screw and nuts. With or without technopolymer sliding bushing. Holes Ø: 18 mm







































18.5 Linear actuators and accessories



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Material

- Steel (6)
- · Stainless steel (1)
- · Aluminium (1)

Type of tube

• Round (1)

GN 291

Linear actuators Steel



AISI 303 stainless steel worm screw with trapezoidal threading; brass slider. Standard executions: right or left threaded screw, projecting on one side or both sides. Stroke: 65 - 70 - 100 - 115 - 150 - 165 - 170 - 200 - 215 - 220 - 265 - 270 - 300 - 315 - 320 - 720 mm

GN 295

Installation kits on linear actuators of position indicators Steel



Black-oxide steel spindle adapter. Locking bases in anodised aluminium, black colour. Standard executions: for digital position indicators DD50, DD51 and DD52R or electronic position indicators DD51-E and DD52R-E. Diameters: 8 - 12 - 14 mm

GN 298

T-shaped and angular connectors

Aluminum



Epoxy resin body coating. Hardened steel adjusting inserts. Assembly via 4 inserts with housing for countersunk head screws, 2 inserts with housing for countersunk head screws, without adjusting inserts. Max. rotation angle 180° (-20° and +160° with 0° = coplanarity of surfaces). Dimensions: 42 - 50 - 60 mm

GN 391-NI

Connecting units for linear actuators

Stainless steel



AISI 304 stainless steel guide tube. Stainless steel spindle. End blanking plugs in technopolymer. Holes Ø: 18 - 30 - 40 - 50 - 60 mm

GN 291.1

Square linear actuators

Steel



AISI 303 stainless steel worm screw with trapezoidal threading; brass slider. Standard executions: right or left threaded screw, projecting on one side or both sides. Stroke: 65 - 70 - 100 - 115 - 150 - 165 - 170 - 200 - 215 - 220 - 265 - 270 - 300 - 315 - 320 mm

GN 297

Angular gears

Steel



Assembly by means of two supplied zinc-plated steel grub screws with hexagon socket. Standard executions: gear with teeth for clockwise or anti-clockwise rotation; set of two gears, one for clockwise and one for anti-clockwise rotation; set of three gears, one for clockwise and two for anti-clockwise rotation. Diameters: 14.5 - 25 - 33 - 40 mm

GN 391

Connecting units for linear actuators

Steel



Chrome-plated steel guide tube. Natural steel spindle. End blanking plugs in technopolymer. Holes Ø: 18 - 30 - 40 - 50 - 60 mm

GN 292

Linear actuators

Steel



AISI 303 stainless steel worm screw with trapezoidal threading; brass slider. Slider connector nut in natural steel. End blanking plugs in technopolymer. Stroke: 120 - 130 - 205 - 255 - 300 - 350 mm





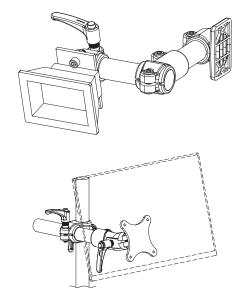


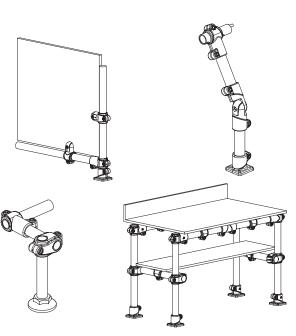
Technopolymer connecting clamps and joints



- Lightweight, anti-rust, and high mechanical strength.
- Easy cleaning due to a design free from corners and edges and with a smooth surface.
- Jointed components to adapt the structure to all required angles.
- Compatible with all commercial tubes (diameter tolerance of ±0.2 mm).
- Hole reduction sleeves to adapt to tubes with different diameters.
- Resistance to tube rotation and pull-out guaranteed at tightening torque indicated.

▼ Application examples









































Vacuum cups, vacuum cup holders and related accessories that can be used for gripping and handling packaged products, including food, and plastic, metal, glass, marble, paper, and ceramic products. Different shapes, sizes, blends, and combinations of materials allow their use in various industrial contexts including packaging (flow-pack), robot-automation, paper, and electronics.

19.1 Vacuum suction cups



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Blend

- · Oil-proof rubber (54)
- · Natural rubber (57)
- · Yellow natural rubber (4)
- · Silicone rubber (63)
- Nitrilic rubber (4)

VVA-07

Mini vacuum cups Diameter 7 mm, with and without support, rubber



They are used in the paper converting sector, in particular for handling paper sheets and labels. They can also be used in different sectors, including electronics, for gripping small electrical components, food or for use with small metal or plastic products.

VVA-18

Flat vacuum cups with shank

Diameter 18 mm, with or without support, rubber



They are used in the paper converting sector, in particular for handling paper sheets and labels. They can also be used in different sectors, including electronics, for gripping small electrical components, food or for use with small metal or plastic products.

VVA-30

Flat vacuum cups with shank

Diameter 30 mm, with or without support, rubber



They are used in the packaging sector, in particular in packaging using plastic films and in the paper converting sector for the handling of sheets of paper. The moulded labyrinth on the vacuum cup support surface ensures a more effective grip on the product to be handled and a uniform distribution of the vacuum on the surface of the sheet or package.

VVA-50 Shaped flat vacuum

Diameter 50 mm, with or without support, rubber



They are widely used in the paper converting sector, in particular for handling cardboard sheets. They can also be used in different sectors, including electronics, for gripping small electrical components, food or for use with small metal or plastic products. The presence of the grooves on the surface of the vacuum cup allows for a superior grip and a more effective hold on the object to be manipulated.

VVA-17

Flat vacuum cups with shank

Diameter 17mm, with or without support, rubber



They are used in the paper converting sector, in particular for handling paper sheets and labels. They can also be used in different sectors, including electronics, for gripping small electrical components, food or for use with small metal or plastic products.

VVA-27

Flat vacuum cups with shank

Diameter 27 mm, with or without support, rubber



They are used in the packaging sector, in particular in packaging using plastic films and in the paper converting sector for the handling of sheets of paper. The moulded labyrinth on the vacuum cup support surface ensures a more effective grip on the product to be handled and a uniform distribution of the vacuum on the surface of the sheet or package.

VVA-44

Flat vacuum cups with shank

Diameter 44mm, with or without support, rubber



They are widely used in the paper converting sector, in particular for handling cardboard sheets. They can also be used in different sectors, including electronics, for gripping small electrical components, food or for use with small metal or plastic products. The presence of the grooves on the surface of the vacuum cup allows for a superior grip and a more effective hold on the object to be manipulated.

VVA-65

Shaped flat vacuum cups

Diameter 65 mm, with or without support, rubber



They are widely used in the paper converting sector, in particular for handling cardboard sheets. They can also be used in different sectors, including electronics, for gripping small electrical components, food or for use with small metal or plastic products. The presence of the grooves on the surface of the vacuum cup allows for a superior grip and a more effective hold on the object to be manipulated.





19.1 Vacuum suction cups continues

Round vacuum cups - High Grip

With support, rubber



They are used in the robotic-automotive sector and for surfaces such as sheet metal or glass. The flexibility of the gripping lip makes them suitable for flat, concave, and convex surfaces. The moulded labyrinth on the support surface ensures, even in the presence of liquids (oil, water), a strong grip on the load surface.

VVD

Elliptical flat vacuum cups - High Grip

With support, rubber



They are used in the robotic-automotive sector. for surfaces such as sheet metal or glass. The flexibility of the gripping lip makes them suitable for flat, concave, and convex surfaces. The moulded labyrinth on the support surface ensures, even in the presence of liquids (oil, water), a strong grip on the load surface.

Elliptical vacuum cups

With support, rubber



Application sectors: paper industry (for cardboard boxes or cases), ceramics sector (tiles or bricks) and with iron or stainless steel profiles or sheets. Suitable for gripping, handling and clamping materials or products with elongated surfaces.

VVH-04 Mini Cup-shaped vacuum cups

Diameter 4 mm, with or without shaped support, rubber



Application sectors: electronics, food packaging, multiple materials (metal or plastic) with different shapes and gripping surfaces (flat, slightly convex or concave). Thanks to the small diameter and the shaped support, they are suitable for moving even objects with very small dimensions.

VVH-06

Mini Cup-shaped vacuum cups

Diameter 6 mm, with or without shaped support, rubber



Application sectors: electronics, food packaging, multiple materials (metal or plastic) with different shapes and gripping surfaces (flat, slightly convex or concave). Thanks to the small diameter and the shaped support, they are suitable for moving even objects with very small dimensions.

Round vacuum cups with one bellow -High Grip

With support, rubber



They are used in the robotic-automotive sector, for surfaces such as sheet metal or glass. The moulded labyrinth on the support surface ensures, even in the presence of liquids (oil, water), a strong grip on the load surface. The bellows allows adaptability to even irregular surfaces or those with planarity errors.

Elliptical flat vacuum cups with one bellow - High Grip

With support, rubber



They are used in the robotic-automotive sector, for surfaces such as sheet metal or glass. The moulded labyrinth on the support surface ensures, even in the presence of liquids (oil, water), a strong grip on the load surface. The bellows allows adaptability to even irregular surfaces or those with planarity errors.

Elliptical vacuum cups with double bellow

With support, rubber



Application sectors: paper (cardboard boxes or cases), ceramics (tiles or bricks), iron or stainless steel profiles. Suitable for gripping and holding products with elongated surfaces. The bellows in contact with the load surface (even irregular or non-planar) folds up, lifting it from the surface.

VVH-05 Mini Cup-shaped vacuum cups

Diameter 5 mm, with or without shaped support, rubber



Application sectors: electronics, food packaging, multiple materials (metal or plastic) with different shapes and gripping surfaces (flat, slightly convex or concave). Thanks to the small diameter and the shaped support, they are suitable for moving even objects with very small dimensions.

Mini Cup-shaped

vacuum cups

Diameter 7 mm, with or without shaped support, rubber



Application sectors: electronics, food packaging, multiple materials (metal or plastic) with different shapes and gripping surfaces (flat, slightly convex or concave). Thanks to the small diameter and the shaped support, they are suitable for moving even objects with very small dimensions.







































19.1 Vacuum suction cups continues

VVH-08 Mini Cup-shaped vacuum cups

Diameter 8 mm, with or without shaped support,



Application sectors: electronics, food packaging, multiple materials (metal or plastic) with different shapes and gripping surfaces (flat, slightly convex or concave). Thanks to the small diameter and the shaped support, they are suitable for moving even objects with very small dimensions.

VVH-10

Cup-shaped vacuum cups

Diameter 10 mm, with or without support, rubber



Application sectors: electronics, food packaging, multiple materials (metal or plastic) with different shapes and gripping surfaces (flat, slightly convex or concave).

VVH-15

Cup-shaped vacuum cups

Diameter 15 mm, with or without support, rubber



Application sectors: electronics, food packaging, multiple materials (metal or plastic) with different shapes and gripping surfaces (flat, slightly convex or concave).

VVH-20

Cup-shaped vacuum cups

Diameter 20 mm, with or without support, rubber



Application sectors: electronics, food packaging, multiple materials (metal or plastic) with different shapes and gripping surfaces (flat, slightly convex or concave).

VVH-25

Cup-shaped vacuum

Diameter 25 mm, with or without support, rubber



Application sectors: electronics, food packaging, multiple materials (metal or plastic) with different shapes and gripping surfaces (flat, slightly convex or concave).

Cup-shaped vacuum cups

Diameter 9 mm, with or without shaped support, rubber



Application sectors: electronics, food packaging, multiple materials (metal or plastic) with different shapes and gripping surfaces (flat, slightly convex or concave).

VVH-12

Cup-shaped vacuum cups

Diameter 12 mm, with or without support, rubber



Application sectors: electronics, food packaging, multiple materials (metal or plastic) with different shapes and gripping surfaces (flat, slightly convex or concave).

VVH-18

Cup-shaped vacuum cups

Diameter 18 mm, with or without support, rubber



Application sectors: electronics, food packaging, multiple materials (metal or plastic) with different shapes and gripping surfaces (flat, slightly convex or concave).

VVH-22

Cup-shaped vacuum cups

Diameter 22 mm, with or without support, rubber



Application sectors: electronics, food packaging, multiple materials (metal or plastic) with different shapes and gripping surfaces (flat, slightly convex or concave).

VVH-30

Cup-shaped vacuum

Diameter 30 mm, with or without support, rubber



Application sectors: electronics, food packaging, multiple materials (metal or plastic) with different shapes and gripping surfaces (flat, slightly convex or concave).





19.1 Vacuum suction cups continues

VVH-35

Cup-shaped vacuum cups

Diameter 35 mm, with or without support, rubber

Cup-shaped vacuum

Diameter 45 mm, with or

without support, rubber

Application sectors: electronics, food

smooth or moulded surfaces.

packaging, multiple materials (metal or plastic)

with different shapes and gripping surfaces (flat, slightly convex or concave). They are used for handling ceramic or concrete tiles with



Application sectors: electronics, food packaging, multiple materials (metal or plastic) with different shapes and gripping surfaces (flat, slightly convex or concave).

VVH-40

Cup-shaped vacuum cups

Diameter 40 mm, with or without support, rubber



Application sectors: electronics, food packaging, multiple materials (metal or plastic) with different shapes and gripping surfaces (flat, slightly convex or concave).







































VVI-25

Flat Cup-shaped vacuum cups Diameter 25 mm, with or

without support, rubber



Application sectors: electronics, food packaging, multiple materials (metal or plastic) with different shapes and gripping surfaces (flat, slightly convex or concave).

VVI-30

VVH-45

cups

Flat Cup-shaped vacuum cups

Diameter 30 mm with or without support, rubber



Application sectors: electronics, food packaging, multiple materials (metal or plastic) with different shapes and gripping surfaces (flat, slightly convex or concave).

VVI-35

Flat Cup-shaped vacuum cups

Diameter 35 mm, with or without support, rubber



Application sectors: electronics, food packaging, multiple materials (metal or plastic) with different shapes and gripping surfaces (flat, slightly convex or concave).

VVI-45

Flat Cup-shaped vacuum cups

Diameter 45 mm, with or without support, rubber



Application sectors: electronics, food packaging, multiple materials (metal or plastic) with different shapes and gripping surfaces (flat, slightly convex or concave). They are used for handling ceramic or concrete tiles with smooth or moulded surfaces.

VVI-60

Flat Cup-shaped vacuum cups

Diameter 60 mm, with or without support, rubber



Application sectors: electronics, food packaging, multiple materials (metal or plastic) with different shapes and gripping surfaces (flat, slightly convex or concave). They are used for handling ceramic or concrete tiles with smooth or moulded surfaces.

VVI-85

Flat Cup-shaped vacuum cups

Diameter 85 mm, with or without support, rubber



Application sectors: electronics, food packaging, multiple materials (metal or plastic) with different shapes and gripping surfaces (flat, slightly convex or concave). They are used for handling ceramic or concrete tiles with smooth or moulded surfaces.

Round Flat vacuum cups

Diameter 80 mm, with or without support, rubber



For handling tiles and possible use also with glass, marble, and cement products. Particularly flexible lip for smooth or rough flat surfaces, concave and convex, even very thin. The grooves on the support surface allow a superior grip and a more effective hold.

19.1 Vacuum suction cups continues

Mini bellows vacuum cups for food packaging

Diameter 6 mm, with or without support, rubber



They are suitable for the food packaging sector where the small size of the vacuum cup and the bellows shape allow adaptability to different surfaces, even irregular ones or with planarity errors, allowing these vacuum cups to handle packages with multiple shapes and small dimensions.

Mini bellows vacuum cups for food packaging

Diameter 8 mm, with or without support, rubber



They are suitable for the food packaging sector where the small size of the vacuum cup and the bellows shape allow adaptability to different surfaces, even irregular ones or with planarity errors, allowing these vacuum cups to handle packages with multiple shapes and small dimensions.

VVL-11

Bellows vacuum cups for food packaging Diameter 11 mm, with or without support, rubber



They are suitable for the food packaging sector where the bellows shape allows adaptability to different surfaces, even irregular ones or with planarity errors, allowing these vacuum cups to handle packages with multiple shapes and dimensions.

VVL-16

Bellows vacuum cups for food packaging Diameter 16 mm, with or

without support, rubber



They are suitable for the food packaging sector where the bellows shape allows adaptability to different surfaces, even irregular ones or with planarity errors, allowing these vacuum cups to handle packages with multiple shapes and dimensions.

VVL-18

Bellows vacuum cups for food packaging

Diameter 18 mm, with or without support, rubber



They are suitable for the food packaging sector where the bellows shape allows adaptability to different surfaces, even irregular ones or with planarity errors, allowing these vacuum cups to handle packages with multiple shapes and dimensions

VVL-19

Bellows vacuum cups for food packaging

Diameter 19 mm, with or without support, rubber



They are suitable for the food packaging sector where the bellows shape allows adaptability to different surfaces, even irregular ones or with planarity errors, allowing these vacuum cups to handle packages with multiple shapes and dimensions

VVL-30-38 Multi - bellow vacuum cups for food packaging

Diameter 30 mm, with or without support, rubber



They are suitable for the food packaging sector where the bellows shape allows adaptability to different surfaces, even irregular ones or with planarity errors, allowing these vacuum cups to handle packages with multiple shapes and dimensions. The grooves on the surface of the suction cup allow for increased grip.

VVL-30-55 Multi - bellow vacuum cups for food packaging

Diameter 30 mm, with or without support, rubber



They are suitable for the food packaging sector where the bellows shape allows adaptability to different surfaces, even irregular ones or with planarity errors, allowing these vacuum cups to handle packages with multiple shapes and dimensions. The special inner machining of the vacuum cup surface allows for increased grip.

Multi - bellow vacuum cups for food packaging

Diameter 33 mm, with or without support, rubber



They are suitable for the food packaging sector where the bellows shape allows adaptability to different surfaces, even irregular ones or with planarity errors, allowing these vacuum cups to handle packages with multiple shapes and dimensions. The special inner machining of the vacuum cup surface allows for increased grip.

Bellows vacuum cups for food packaging

Diameter 56 mm, with or without support, rubber



They are suitable for the food packaging sector where the bellows shape allows adaptability to different surfaces, even irregular ones or with planarity errors, allowing these vacuum cups to handle packages with multiple shapes and dimensions. The special inner machining of the vacuum cup surface allows for increased grip.





19.1 Vacuum suction cups continues

VVL-75 Bellows vacuum cups

for food packagingDiameter 75 mm, with or
without support, rubber



They are suitable for the food packaging sector where the bellows shape allows adaptability to different surfaces, even irregular ones or with planarity errors, allowing these vacuum cups to handle packages with multiple shapes and dimensions. The special inner machining of the vacuum cup surface allows for increased grip.

VVM-30

Multi-Bellows Round vacuum cups for food packaging

Diameter 30 mm, with or without support, rubber



They are indicated in the food packaging sector, in particular for the handling of baked goods or confectionery products, where the multi-bellows shape allows adaptability to different surfaces, even irregular ones or with planarity errors, allowing these vacuum cups to handle multiple types of packaged products, even fragile ones. (e.g. biscuits, bread, snacks).

VVM-50

Multi-Bellows Round vacuum cups for food packaging

Diameter 50 mm, with or without support, rubber



They are indicated in the food packaging sector, in particular for the handling of baked goods or confectionery products, where the multi-bellows shape allows adaptability to different surfaces, even irregular ones or with planarity errors, allowing these vacuum cups to handle multiple types of packaged products, even fragile ones. (e.g. biscuits, bread, snacks).

VVN-30

Bellows vacuum cups for Flow Pack

Diameter 30 mm, with or without support, silicone



They are indicated for flow-pack type packaging in which the multi-bellows shape and the extremely flexible lip allow the vacuum cup to adapt to multiple types of packaged products. They are used in the food, pharmaceutical, industrial, and cosmetic sectors.

VVN-50

Bellows vacuum cups for Flow Pack Diameter 50 mm, with or

without support, silicone



They are indicated for flow-pack type packaging in which the multi-bellows shape and the extremely flexible lip allow the vacuum cup to adapt to multiple types of packaged products. They are used in the food, pharmaceutical, industrial, and cosmetic sectors.

/VM-20

Multi-Bellows Round vacuum cups for food packaging

Diameter 20 mm, with or without support, rubber



They are indicated in the food packaging sector, in particular for the handling of baked goods or confectionery products, where the multi-bellows shape allows adaptability to different surfaces, even irregular ones or with planarity errors, allowing these vacuum cups to handle multiple types of packaged products, even fragile ones. (e.g. biscuits, bread, snacks).

VVM-40

Multi-Bellows Round vacuum cups for food packaging

Diameter 40 mm, with or without support, rubber



They are indicated in the food packaging sector, in particular for the handling of baked goods or confectionery products, where the multi-bellows shape allows adaptability to different surfaces, even irregular ones or with planarity errors, allowing these vacuum cups to handle multiple types of packaged products, even fragile ones. (e.g. biscuits, bread, snacks)

VVN-20

Bellows vacuum cups for Flow Pack

Diameter 20 mm, with or without support, silicone



They are indicated for flow-pack type packaging in which the multi-bellows shape and the extremely flexible lip allow the vacuum cup to adapt to multiple types of packaged products. They are used in the food, pharmaceutical, industrial, and cosmetic sectors.

VVN-40

Bellows vacuum cups for Flow Pack

Diameter 40 mm, with or without support, silicone



They are indicated for flow-pack type packaging in which the multi-bellows shape and the extremely flexible lip allow the vacuum cup to adapt to multiple types of packaged products. They are used in the food, pharmaceutical, industrial, and cosmetic sectors.

VVO-40

Round vacuum cups with one bellow

Diameter 40 mm, with support, vulcanised rubber



They are suitable for leafing through and picking up thin metal sheets, glass plates, wood panels, and plastic laminates. The vacuum cup has a vulcanised treatment that makes it more resistant to abrasion, tensile forces, as well as wear and tear, and makes it more resistant to aggressive environmental agents.







































19.1 Vacuum suction cups continues

VVO-50

Round vacuum cups with one bellow

Diameter 50 mm, with support, vulcanised



They are suitable for leafing through and picking up thin metal sheets, glass plates, wood panels, and plastic laminates. The vacuum cup has a vulcanised treatment that makes it more resistant to abrasion, tensile forces, as well as wear and tear, and makes it more resistant to aggressive environmental agents.

VVO-60

Round vacuum cups with one bellow

Diameter 60 mm, with support, vulcanised



They are suitable for leafing through and picking up thin metal sheets, glass plates, wood panels, and plastic laminates. The vacuum cup has a vulcanised treatment that makes it more resistant to abrasion, tensile forces, as well as wear and tear, and makes it more resistant to aggressive environmental agents.

VVO-85

Round vacuum cups with one bellow

Diameter 85 mm, with support, vulcanised rubber



They are suitable for leafing through and picking up thin metal sheets, glass plates, wood panels, and plastic laminates. The vacuum cup has a vulcanised treatment that makes it more resistant to abrasion, tensile forces, as well as wear and tear, and makes it more resistant to aggressive environmental agents.

VVP-40

Round vacuum cups with double bellows

Diameter 40 mm, with support, vulcanised rubber



They are suitable for leafing through and picking up thin metal sheets, glass plates, wood panels, and plastic laminates. The vacuum cup has a vulcanised treatment that makes it more resistant to abrasion, tensile forces, as well as wear and tear, and makes it more resistant to aggressive environmental agents.

VVP-50

Round vacuum cups with double bellows

Diameter 50 mm with support, vulcanised rubber





They are suitable for leafing through and picking up thin metal sheets, glass plates, wood panels, and plastic laminates. The vacuum cup has a vulcanised treatment that makes it more resistant to abrasion, tensile forces, as well as wear and tear, and makes it more resistant to aggressive environmental agents.

VVP-60

Round vacuum cups with double bellows

Diameter 60 mm with support, vulcanised rubber



They are suitable for leafing through and picking up thin metal sheets, glass plates, wood panels, and plastic laminates. The vacuum cup has a vulcanised treatment that makes it more resistant to abrasion, tensile forces, as well as wear and tear, and makes it more resistant to aggressive environmental agents.

VVP-85

Round vacuum cups with double bellows

Diameter 85 mm, with support, vulcanised rubber



They are suitable for leafing through and picking up thin metal sheets, glass plates, wood panels, and plastic laminates. The vacuum cup has a vulcanised treatment that makes it more resistant to abrasion, tensile forces, as well as wear and tear, and makes it more resistant to aggressive environmental agents.

VVQ-22

Reinforced bellow vacuum cups

Diameter 22 mm, with or without support, rubber



They are indicated for leafing through and picking up sheets of paper and cardboard, thin sheet metal and wood panels.

The reinforced bellows, wider and thicker than traditional bellows, allows for greater lifting force with the same size, combined with greater resistance to wear and tear.

VVQ-34

Reinforced bellow vacuum cups

Diameter 34 mm, with or without support, rubber



They are indicated for leafing through and picking up sheets of paper and cardboard, thin sheet metal and wood panels.

The reinforced bellows, wider and thicker than traditional bellows, allows for greater lifting force with the same size, combined with greater resistance to wear and tear.

VVQ-43 - VVQ-53

Reinforced bellow vacuum cups

Diameter 43 and 53 mm, with support, rubber



They are specifically indicated for leafing through and picking up sheets of paper and cardboard, thin sheet metal and wood panels.

The reinforced bellows, wider and thicker than traditional bellows, allows for greater lifting force with the same size, combined with greater resistance to wear and tear.





19.2 Vacuum cup holders



Material

- · Stainless steel (1)
- Brass (2)
- · Brass Steel (5)

Vacuum cup holders

Threaded connection male or female, steel, aluminium and brass



4 available executions, each with three different effective spring strokes specific for each stem length. The spring cushions the impact of the vacuum cup and at the same time maintains a constant pressure with the load to be lifted.

Vacuum cups suspensions - Fixed

Threaded connection male or female, aluminium and brass



4 available executions. The threaded bosses, with clamping ring for height adjustment and mounting on the automatic device, with a minimum length of only 74 mm, represent a compact solution for fixing the vacuum cup with support.

Mini vacuum cup spring suspensions

Threaded connection male or female, steel, aluminium and brass



8 available executions and with an effective spring stroke of 25.5 mm. Small dimensions that allow a reduction in weight and bulk on the automation on which they are installed. The spring cushions the impact of the vacuum cup and maintains a constant pressure with the load to be lifted.

VPC

Anti-rotation vacuum cup suspensions

Threaded connection male, steel, aluminium and brass



2 available executions, each with three different effective spring strokes for each stem length. The hexagonal shape of the stem prevents the shank and the vacuum cup fixed on it from rotating on its axis. The spring cushions the impact of the vacuum cup and maintains a constant pressure with the load to be lifted.

Mini vacuum cup with built-in spring suspensions

Threaded connection female, steel, aluminium and brass



2 available executions, each with different effective spring strokes. The particular shape of the shank prevents rotation during movement The embedded spring protected by the body cushions the impact of the vacuum cup, maintaining a constant pressure with the load to he lifted

Mini vacuum cup suspensions - Fixed

Threaded connection female, steel, aluminium and brass



2 available executions. The threaded bosses, with clamping ring for height adjustment and mounting on the automatic device, with a minimum length of only 46 mm, represent a compact solution for fixing the vacuum cup with support.

Anti-rotation mini vacuum cups spring suspensions

Threaded connection male or female, steel, aluminium and brass



6 available executions, with an effective spring stroke equal to 25.5 mm. The specific hexagonal shape of the stem prevents the shank and the vacuum cup fixed on it from rotating on its axis. The spring cushions the impact of the vacuum cup and maintains a constant pressure with the load to be lifted.

Micro vacuum cup spring suspensions

Threaded connection female, stainless steel, aluminium and brass





5 available executions, with an effective spring stroke of 10 mm. With a minimum length of only 73 mm, it represents an extremely compact and lightweight solution for fixing vacuum cups with diameters up to 16 mm and with M5 male support.

19.3 Vacuum cup fittings



VRA

Vacuum cup fittings For VVB, VVC, VVD e WE High grip vacuum cups, aluminium or steel



5 available executions, used to connect the vacuum cups to the vacuum cup holders equipped with threads with different dimensions. They allow both the passage from male to female and adaptation to GAS, metric, or NPT threads.





































Vacuum Suction Cups

◎₁



























Designed for gripping and handling products and packages of various shapes and sizes,

They are widely used in industries such as packaging (flow-pack), robot automation, paper converting, and electronics. Selecting the ideal suction cup for your application is easy; simply consider the following features.



- Diameter: from mini sizes of just 4 mm up to 125 mm.
- Compound: 5 different types (oil-proof, natural, natural yellow, silicone and nitrile rubber) also with vulcanised treatments to improve tensile strength and extend its useful life.
- Shape: cup, flat and elliptical vacuum components adapt to various shapes and sizes and, in the bellows and multi-bellows executions, they can also compensate for errors in the flatness of the surfaces of the products to be handled.
- Shaped support surface: the grooves or the particular internal labyrinth design allow you to obtain a high grip even on surfaces with different roughness or in the presence of liquids (water and oil).

The breadth of the range offers unique lifting forces for each suction cup which allow the manipulation and grip of very light and delicate products such as chocolates, biscuits, eggs, stickers, labels and sheets of paper up to parts with considerable weight such as glass plates, marble and metal.

The range is completed by **complementary vacuum cup holders** in brass, steel or stainless steel available in different configurations and sizes: spring (also external), fixed, Mini, Micro. With threaded connection of different lengths to guarantee full adaptability to machinery.













Designers and engineers can benefit from a full collection of Technical Data provided with all ELESA Catalogues. They include information on production materials, specifications on mechanical, thermal, flame and chemical resistance, compliance with international standards, conversion tables, machining tolerances and thread types. In addition, guidelines for the correct selection and application of specific products are provided in order to allow the designers to always make the best choice.









































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GENERAL

Production materials, mechanical, thermal and chemical resistance specifications. International standards compliances, conversion tables, ISO thread types.

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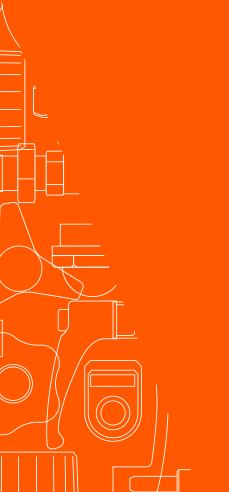
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