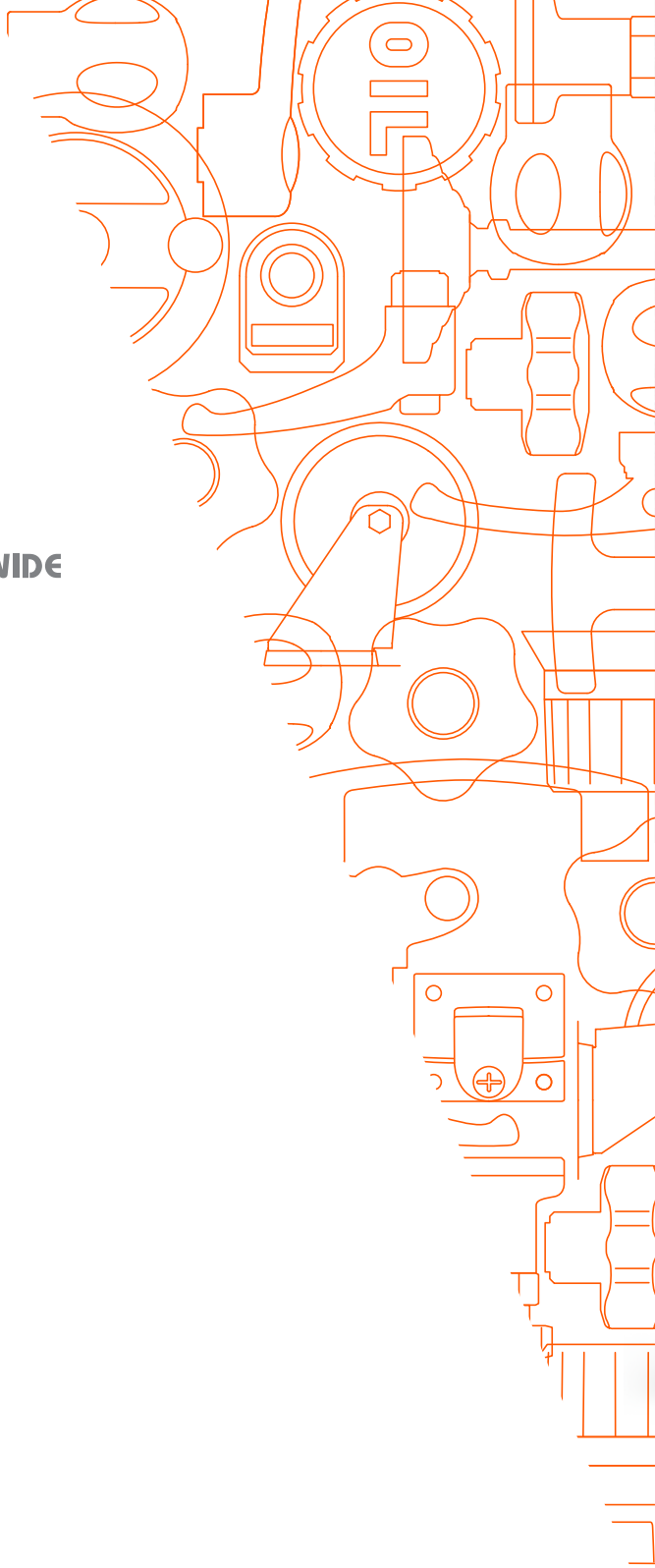
Quick Catalog

STANDARD MACHINE ELEMENTS WORLDWIDE

INCH & METRIC RANGE



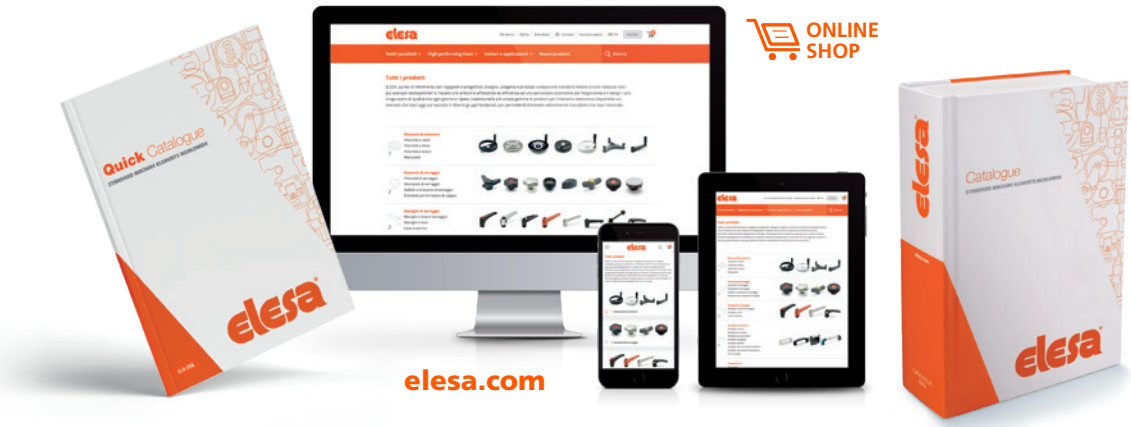
elesa®

6.0 USA

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

Design and production are based at the company's headquarters and manufacturing facilities in Monza. ELESA is a state-of-the-art industrial company where automation drives efficiency. The logistics center features an advanced fully automated shuttle system that manages over 75,000 product codes. Ensuring fast and reliable 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 CATALOG

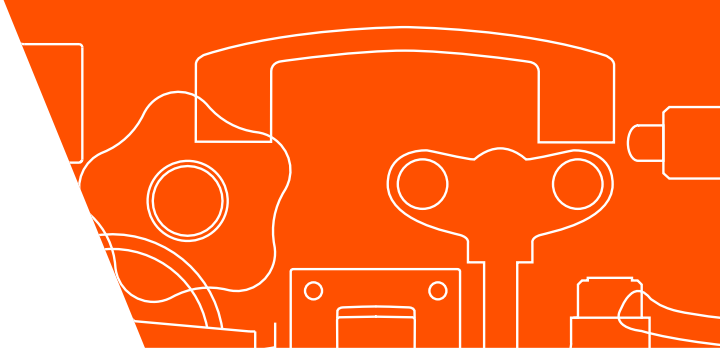
- Products index with pictures and essential information to view the full range in a "quick" way.
- Scan the QR code to view the product family directly online.
- All detailed technical information with dimensioned drawings and dimensional tables are available on the website or in the General Catalog.

ONLINE

- Always updated with New Products.
- Prices available in tables and discounts.
- Stocks levels and filters.
- 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 CATALOG

- 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!



Elesa
Product range

TECHNICAL DATA

Browse the full Inch & Metric range on
elesa.com

elesa®

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.

Innovation, technology and design

Leveraging its engineering know-how, Elesa embraces transformative approaches in designing and producing industrial components, harnessing technological innovation to make its products high-performing and provided with an original and distinctive design that enable to meet, or even anticipate, customers' expectations.

Quality and service

Elesa is constantly committed to providing quality. Attention to details and the focus to customers' requirements ensure a seamless service aiming at setting new industrial standards.

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.

MARCHIO STORICO

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 commited 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
- 75,000+ PRODUCT CODES AVAILABLE ON STOCK
- CUSTOMISED SOLUTIONS
- TECHNICAL COMPETENCE AT THE CUSTOMERS' SERVICE

QUALITY - ENVIRONMENT - SAFETY - SECURITY

bsi ISO 9001 Quality Management Systems CERTIFIED
FM 23747

Quality Management System certified according to **ISO 9001** since 1993.

bsi ISO 14001 Environmental Management CERTIFIED
EMS 518430

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

bsi ISO 45001 Occupational Health and Safety Management CERTIFIED
OHS 584384

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

bsi ISO/IEC 27001 Information Security Management CERTIFIED
IS 785854

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

AEO

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

Elesa is associated with:

UCIMU — Italian Association of Machine Tool Manufacturers

ASSOCIATO UCIMA MEMBER — Unione Costruttori Italiani Macchine Automatiche per il Confezionamento e l'Imballaggio

Italian Packaging Machinery Manufacturers Association

SOCIO UNI — ITALIAN INSTITUTE OF UNIFICATION

AHK Deutsch-Italienische Handelskammer Camera di Commercio Italo-Germanica

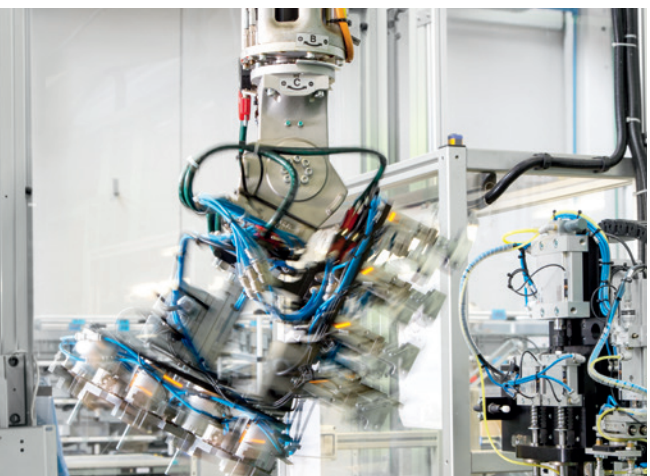
Design and production activities are concentrated at the headquarters in Monza where tens of millions of pieces are produced every year by utilising the latest automated production technologies.

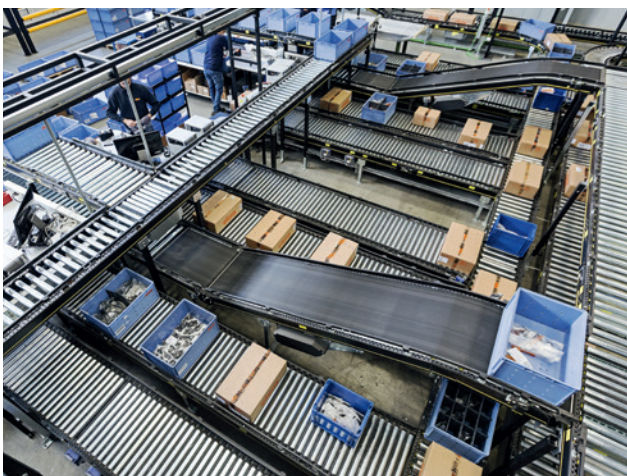
In the new, fully automated Logistics Centre, over 75,000 product codes are in stock and ready to be shipped worldwide.

WE USE ELECTRICAL ENERGY
100% GREEN
FROM RENEWABLE SOURCES

Environmentally Conscious Manufacturing

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, Moldova, Netherlands, North Macedonia, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom, Ukraine.

ASIA

Bahrain, China, India, Indonesia, Israel, Japan, Kazakistan, Malesia, Philippines, Qatar, Singapore, South Korea, 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 France SASU


Elesa (UK) Ltd


Elesa USA Corporation


Elesa Scandinavia AB


Elesa Switzerland SA


Elesa Canada Ltd.


Elesa MX

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 1950's, 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.

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 the perception of a product.

Elesa is associated with:

ADIMEMBER
ASSOCIAZIONE
PER IL DISEGNO INDUSTRIALE

AIPPI
INTERNATIONAL ASSOCIATION
FOR THR PROTECTION
OF INTELLECTUAL PROPRERTY

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

Premio Compasso d'oro
design stuttgart
DESIGN AWARD
reddot design award
GERMAN DESIGN AWARD
GERMAN INNO VATION
ADI DESIGN INDEX
Selezione Compasso d'Oro
GOOD DESIGN

*As Awarded by The Chicago Athenaeum: Museum of Architecture and Design

Good Design
LEAP AWARDS Winner
PPMA Industry Awards WINNER 2014
荣格技术创新奖
PRODUKT ROKU
FLUIDTRANS COMPOMAC
ZWYCIĘZCA MM POLAND AWARD 2024

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.

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.

Elesa is associated with:

proplast
PLASTICS INNOVATION POLE

Quick answers and customised solutions

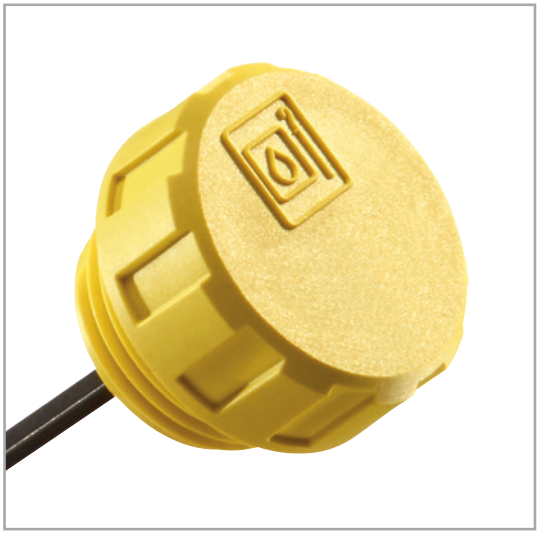
Elesa offers on demand customised technical solutions to meet customers' specific needs.

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-TOUCH
SAFE, 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 DESIGN
DESIGN, MATERIALS AND SURFACE TREATMENTS AT THE SERVICE OF HYGIENE

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

AE-V0
SELF-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.

ESD
CONDUCTIVE TECHNOPOLYMER

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

ATEX
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® by Elesa

FIVE POINTS:
a discreet trademark
that distinguishes
all ERGOSTYLE® products

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.

elecolors®

The 7 ELECOLORS® colours

Industrial Design Awards won by the ERGOSTYLE® line

Sectors and applications

PACKAGING

CONSTRUCTION AND MATERIAL HANDLING MACHINES

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.

MACHINE TOOLS

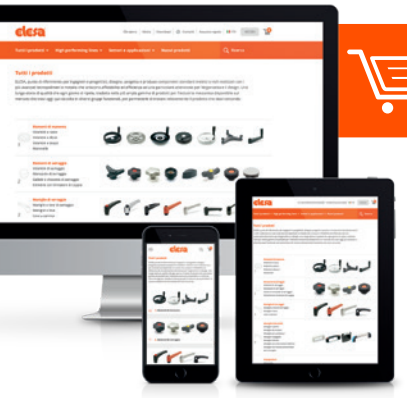
LIGHTING, ELECTRONIC EQUIPMENT

NAUTICAL

OTHERS

Office equipment and furniture, paper processing and printing machines, machines for building materials, plastic and rubber moulding machines, agriculture and gardening, woodworking machines, Green Energy.

Your project, our challenge. At your service!



ONLINE SHOP

Follow us on:

elesa.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.

- 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**.
- 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.

Golden Quality Seal
eCATALOGsolutions
powered by cadenas.de

- 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 75,000 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

Product group

Product family

Scan the **QR code** to access the product family on **elesa.com**

Number of available series for **material** and **type** of assembly

High Performing Lines
See page 12-13

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 go to the full collection on **elesa.com**

Symbols for technical characteristics

PP	Polypropylene based technopolymer	PA-T	Transparent polyamide based technopolymer	PF PAINTED	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 AR	"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	**Units/Assembly type**	
PA-FDA	Polyamide based technopolymer. Certified in compliance with FDA conforme FDA	PTFE	Polytetrafluoroethylene based technopolymer	POM	Acetal resin based technopolymer	HF	Ferrite	METRIC	
HMWPE	Polyethylene based technopolymer	PF	Phenolic based Duroplast	PC	Polycarbonate	ND	Neodymium iron boron	INCH	
								BSP	
								SAE	
								NPT	

elesa®

Browse the full Inch & Metric range on
elesa.com

The Elesa Inch & Metric range

TECHNICAL DATA INDEX
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1 Hand wheels and crank handles

Ergonomic design, wide range of materials, diameters from 3.15 inch to 14.75 inch for all maneuvering operations on machinery and equipment.

1.1 Spoked hand wheels

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)

VRTP.
Spoked handwheels
Technopolymer
INCH METRIC
PP

Black-oxide steel boss, reamed hole or with keyway, boss cap plate in anodised aluminium or technopolymer, in standard colours.
Diameters: 3.15 - 3.94 - 4.92 - 6.30 - 7.87 - 9.84 - 11.81 - 14.75 inch

VRTP-P-SST
Spoked handwheels with solid section
Technopolymer
INCH METRIC
INOX PP

AISI 304 stainless steel boss, with AISI 304 stainless steel boss cap plate.
Technopolymer and plate adhesive suitable for contact with food (FDA CFR.21 and EU 10/2011).
Diameters: 3.15 - 3.94 - 4.92 - 6.30 - 7.87 inch

GN 322 - GN 322.3
Spoked handwheels
Aluminum
INCH METRIC

Reamed hole.
Diameters: 4.92 - 5.51 - 6.30 - 7.87 - 9.84 inch

GN 924 - GN 924.3 - GN 924.7
Spoked handwheels
Aluminum
METRIC

H7 reamed hole.
Diameters: 4.92 - 5.51 - 6.30 - 7.87 inch

GN 949
Spoked handwheels
Stainless steel
METRIC
INOX

Turned rim.
H8 reamed hole or with keyway.
Diameters: 3.94 - 4.92 - 5.51 - 6.30 - 7.87 inch

VR.FP
Spoked handwheels
Duroplast, steel hub
PF

Black-oxide steel hub, uncovered front end.
Diameters: 3.94 - 4.92 - 5.51 - 6.30 - 7.09 - 7.87 - 9.84 - 11.81 - 14.75 inch

VRU.
Spoked handwheels
Duroplast, large diameter hub
PF

Large diameter black-oxide steel hub, uncovered front end with spot-drilling.
Diameters: 4.92 - 6.30 - 7.87 - 9.84 inch

DIN 950
Spoked handwheels
Cast iron
INCH
METRIC

Reamed hole.
Also available with keyway.
Diameters: 3.15 - 3.94 - 4.92 - 5.51 - 6.30 - 7.87 - 9.84 inch

1.1 Spoked hand wheels

continues

GN 950.6
Spoked handwheels
Stainless steel
METRIC
INOX STAINLESS STEEL

H9 or H7 reamed hole.
Also available with keyway.
Diameters: 3.94 - 4.92 - 5.51 - 6.30 - 7.87 inch

GN 228
Spoked handwheels
Pressed steel
METRIC

Turned and welded hub, H11 square hole, H9 reamed hole or with keyway.
Diameters: 4.92 - 6.30 - 7.87 - 9.84 - 12.40 - 15.75 inch

GN 228-A4
Spoked handwheels
AISI 316L stainless steel
METRIC
INOX STAINLESS STEEL

Turned and welded hub, H11 square hole, H9 reamed hole or with keyway.
Diameters: 4.92 - 6.30 - 7.87 - 9.84 - 12.40 - 15.75 inch

GN 227.2
Spoked handwheels
Pressed stainless steel
INCH
METRIC
INOX STAINLESS STEEL

Welded hub, H9 reamed hole or H11 square hole.
Diameters : 6.30 - 7.87 - 9.84 - 12.40 - 15.75 inch

GN 227.1 - GN 227.4
Spoked handwheels
Steel or pressed stainless steel
METRIC
INOX STAINLESS STEEL

Welded hub with H9 reamed pass-through hole or H11 square pass-through hole.
Diameters: 4.92 - 6.30 - 7.87 - 9.84 - 12.40 - 15.75 inch

GN 227.7
Spoked handwheels
for valves, pressed steel
METRIC

Welded hub with H9 reamed pass-through hole or H11 square pass-through hole.
Diameters: 4.92 - 6.30 - 7.87 - 9.84 - 12.40 - 15.75 inch

EMW.
Monospoke handwheels
Technopolymer
METRIC
ERGOSTYLE® PP

Black-oxide steel boss, H7 reamed hole with boss cover cap in technopolymer, in standard colours.
Versions with locking system (Elesa patent).
Diameter: 13.78 inch

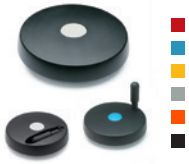
ETW.375
Spoked handwheels
Technopolymer
METRIC
ERGOSTYLE® PP

Black-oxide steel boss, H7 reamed hole with boss cover cap in technopolymer, in standard colours.
Versions with locking system (Elesa patent).
Diameter: 14.75 inch

1.2 Solid hand wheels

elesa.com

VDS.
Solid handwheels
Technopolymer
INCH
METRIC
INOX STAINLESS STEEL PP



Black-oxide steel or stainless steel boss, reamed hole or with keyway.
Boss cap in light grey technopolymer, also available in standard colours.
Diameters: 3.15 - 3.94 - 4.92 - 5.90 - 6.89 - 7.87 - 9.84 - 11.81 inch

VDN.FP
Solid handwheels
Duroplast, steel hub
INCH
METRIC
PF

Black-oxide or stainless steel hub, uncovered front end, not drilled or with reamed hole or with keyway.
Diameters: 1.97 - 2.48 - 3.15 - 3.94 - 4.92 - 5.51 - 5.90 - 6.89 - 7.87 - 8.86 - 9.84 - 11.81 - 13.78 inch

1.2 Solid hand wheels

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
METRIC
INOX STAINLESS STEEL
PF

Stainless steel hub, uncovered front end, not drilled or with H7 reamed hole.
Diameters: 1.97 - 2.48 - 3.15 - 3.94 - 4.92 - 5.51 - 5.90 - 6.89 - 7.87 - 8.86 - 9.84 - 11.81 - 13.78 inch

VDN.FP+I+ST
Safety solid handwheels
Duroplast
METRIC
PF

Safety coupling boss, H7 reamed hole and keyway.
Diameters: 4.92 - 5.90 - 6.89 - 7.87 - 9.84 inch

VDT.
Solid handwheels
Technopolymer
INCH
METRIC
PA

Black-oxide steel boss, reamed hole or with keyway.
Diameters: 3.94 - 4.92 - 6.30 - 7.87 inch

GN 000.5
Safety coupling bushings
for handwheels or handles, steel
METRIC

Boss with H7 reamed hole and keyway.
Diameters: 1.14 - 1.30 - 1.54 - 1.81 inch

GN 321
Solid handwheels
Aluminum
INCH
METRIC

Reamed hole.
Diameters: 3.15 - 3.94 - 4.92 - 5.51 - 6.30 - 7.87 - 9.84 inch

GN 923
Solid handwheels
Aluminum
METRIC
PP

H7 reamed hole.
Diameters: 3.15 - 3.94 - 4.92 - 5.51 - 6.30 - 7.87 inch

GN 923.3
Solid handwheels
Aluminum, with fold-away handle
METRIC
PP

H7 reamed hole.
Diameters: 3.94 - 4.92 - 5.51 - 6.30 - 7.87 inch

GN 923.7
Solid handwheels
Aluminum, with safety fold-away handle
METRIC
PP

H7 reamed hole.
Diameters: 4.92 - 5.51 - 6.30 - 7.87 inch

VDG+IR
Solid handwheels with graduation
Duroplast
METRIC
PF

Black-oxide steel hub, H7 reamed hole with keyway.
Diameters: 6.89 - 7.87 inch

VDA+I
Handwheels for metal flanges
Duroplast
PF

Diameters: 6.30 - 7.87 inch

1.3 Arm hand wheels

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Material

- Technopolymer (4)
- Duroplast (1)

Type of assembly

- Plain hole (5)

Handle

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

VB.198
Four-arm handwheel
Duroplast
METRIC

PF

Black-oxide steel hub, uncovered front end with pre-drilled pass-through hole.
Maximum permissible diameter 6.70 inch

VBR.2
Two-arm handwheels
Technopolymer and steel
METRIC

PA

Black-oxide steel boss, uncovered front end with pre-drilled pass-through hole.
Diameters: 7.87 - 11.02 - 12.60 - 14.57 inch

VBR.4
Four-arm handwheels
Technopolymer and steel
METRIC

PA

Black-oxide steel boss, uncovered front end with pre-drilled pass-through hole.
Diameters: 7.87 - 11.02 - 12.60 - 14.57 inch

EYK.
Three-arm handwheels
Technopolymer
METRIC

ERGOSTYLE® PP

Black-oxide steel boss, H7 reamed hole with boss cover cap in technopolymer, in standard colours.
Versions with locking system (Elesa patent).
Diameters: 10.83 - 15.75 inch

ETK.
Three-arm handwheel
Technopolymer
METRIC

ERGOSTYLE® PP

Black-oxide steel boss, H7 reamed hole with boss cover cap in technopolymer, in standard colours.
Versions with locking system (Elesa patent).
Diameter: 15.75 inch

1.4 Crank handles

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EIK.
Crank handle
Technopolymer, large diameter hub
METRIC

ERGOSTYLE® PP

Black-oxide steel boss, H9 reamed hole with keyway and boss cover cap in technopolymer.
Dimension: 8.27 inch

ERFW+I
Crank handles
Technopolymer
METRIC

ERGOSTYLE® PA

Brass boss, cylindrical blind hole.
Dimensions: 1.73 - 2.48 - 3.07 inch

MT-AT
Crank handles
Technopolymer
INCH
METRIC

PA

Black-oxide steel boss, reamed hole.
Dimensions: 1.97 - 2.52 - 3.15 - 3.94 - 5.12 - 6.30 inch

MT.
Crank handles
Technopolymer
METRIC

PA

Black-oxide steel boss, H9 square pass-through hole; black-oxide steel hub with H9 blind hole or H7 reamed pass-through hole.
Dimensions: 1.97 - 2.52 - 3.15 - 3.94 - 5.12 - 6.30 - 8.27 inch

1.4 Crank handles

continues

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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)

Handle

- Fixed handle (4)
- Revolving handle (13)
- Fold away handle (4)

GN 471
Crank handles
Aluminum
INCH
METRIC

Reamed pass-through hole or square pass-through hole.
Dimensions: 2.52 - 3.15 - 3.94 - 4.92 - 6.30 inch

GN 471.1
Crank handles
Zinc alloy
INCH
METRIC

Reamed pass-through hole or square pass-through hole.
Dimensions: 2.52 - 3.15 - 3.94 - 4.92 - 6.30 inch

GN 472.3
Crank handles
Aluminum
METRIC

H7 reamed hole or H11 square pass-through hole.
Dimensions: 3.15 - 3.94 - 4.92 inch

GN 472.5
Crank handles
Aluminium, stainless steel
METRIC
INOX

H7 reamed hole or H11 square pass-through hole.
Dimensions: 3.15 - 3.94 - 4.92 inch

EKH.
Crank handles
Technopolymer
METRIC
ERGOSTYLE® PA

Hub cap in technopolymer, in standard colours.
Black-oxide steel hub, H7 reamed hole.
Dimensions: 3.94 - 4.92 inch

GN 269
Crank handles
Stainless steel
METRIC
INOX

H9 reamed hole or H11 square hole.
Dimensions: 3.15 - 3.94 - 4.92 - 6.30 - 7.87 inch

GN 369
Crank handles
Steel
METRIC

Hub, H9 reamed hole with end grooving.
Dimensions: 2.48 - 3.15 - 3.94 - 4.92 inch

GN 369.5
Crank handles
Stainless steel
METRIC
INOX

Hub, H9 reamed hole with end grooving.
Dimensions: 2.48 - 3.15 - 3.94 - 4.92 inch

DIN 468
Crank handles
Cast iron
METRIC

H7 reamed hole or H11 square pass-through hole.
Dimensions: 3.15 - 3.94 - 4.92 - 6.30 - 7.87 - 9.84 inch

DIN 469
Crank handles
Cast iron
METRIC

H7 reamed pass-through hole or H11 square pass-through hole.
Dimensions: 3.15 - 3.94 - 4.92 - 6.30 - 7.87 - 9.84 inch

1.4 Crank handles

continues

GN 558
Crank handles
with positioning and rest pin, cast iron
METRIC

Hub with H7 reamed hole and keyway.
Dimensions: 2.95 - 3.54 - 4.33 - 5.31 - 6.50 inch

METP.
Balanced crank handle
Technopolymer
METRIC
PA

Black-oxide steel boss, H7 reamed hole.
Dimensions: 6.69 inch

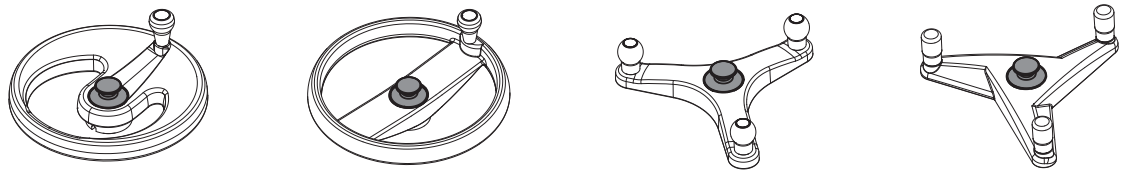
ME.
Balanced crank handles
Duroplast
METRIC
PF

Black-oxide steel boss, H7 reamed hole.
Dimensions: 2.52 - 3.15 - 3.74 - 4.33 - 5.51 inch

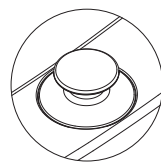
GN 112.1
Balanced crank handles
Zinc alloy
METRIC

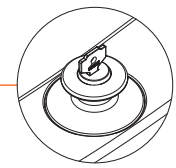
H7 reamed blind hole.
Dimensions: 2.75 - 3.15 - 3.54 - 3.94 inch

EMW. ETW.375 EYK. ETK.



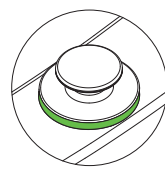
- **L Simple actuator**
  By pressing the actuator the rotation of the handwheel locks. Also available with label customisable with graphic symbols, marks or special graphics.

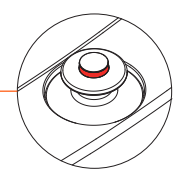




- **L-K Actuator with lock**
  By pressing the actuator the rotation of the handwheel locks. By turning the key by 180° the actuator remains in the locked position.

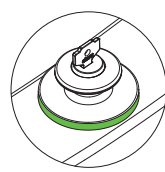
- **LCV Actuator with green collar**
  The green collar indicates that the handwheel is free and it can be operated. By pressing the actuator the rotation of the handwheel locks (the green collar is no longer visible).

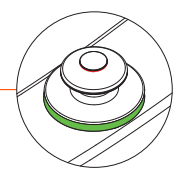




- **L-R Actuator with red ring**
  By pressing the actuator the rotation of the handwheel locks. The red ring comes out from the actuator and indicates that the handwheel is locked.

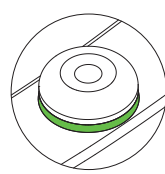
- **LCV-K Actuator with green collar and lock**
  The green collar indicates that the handwheel is free and it can be operated. By pressing the actuator the rotation of the handwheel locks (the green collar is no longer visible). By turning the key by 180° the actuator remains in the locked position.

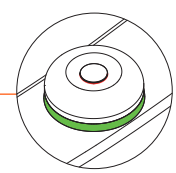




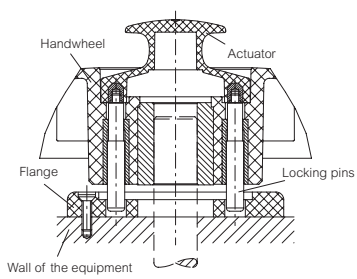
- **LCV-R Actuator with green collar and red ring**
  The green collar indicates that the handwheel is free and it can be operated (the red ring is not visible).
  By pressing the actuator the rotation of the handwheel locks. The red ring comes out from the actuator and indicates that the handwheel is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

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



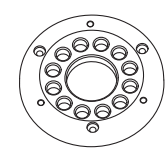


- **PHCV-R "Push-push" actuator with green collar and red ring**
  The green collar indicates that the handwheel is free and it can be operated (the red ring is not visible).
  By pressing the actuator the rotation of the handwheel locks or unlocks. The red ring comes out from the actuator and indicates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



Fitting to shaft by means of a transversal screw

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



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

Clamping knobs and thumb screws

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

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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
INCH
METRIC
INOX STAINLESS STEEL PA

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: 1.77 - 2.48 - 3.15 - 3.94 - 5.12 - 5.51 inch

VB.839
Three-arm knobs
Technopolymer
METRIC
INOX STAINLESS STEEL PA

Brass or AISI 303 stainless steel boss, threaded blind hole; zinc-plated steel threaded stud. Cap in standard colours.
Diameters: 2.48 - 3.15 - 3.94 inch

VB.839 SOFT
Three-arm knobs
Soft-touch technopolymer
METRIC
INOX STAINLESS STEEL SOFT PA

Brass or AISI 303 stainless steel boss, threaded blind hole; zinc-plated steel threaded stud. Cap in standard colours.
Diameters: 2.48 - 3.15 - 3.94 inch

VB.239
Three-arm knobs
Duroplast, hub with pre-drilled hole
METRIC
PF

Black-oxide steel hub with uncovered front end, pre-drilled blind hole.
Diameters: 3.15 - 3.94 - 5.51 inch

VCT.
Lobe knobs
Technopolymer
INCH
METRIC
INOX STAINLESS STEEL PP PA

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: 0.98 - 1.26 - 1.57 - 1.97 - 2.48 - 2.91 - 3.74 inch

VCT.AE-V0
Lobe knobs
Technopolymer certified self-extinguish
INCH METRIC
PA

Brass boss with blind or pass-through threaded hole.
Diameters: 0.98 - 1.26 - 1.57 - 1.97 inch

VCT-LP
Lobe knobs
with retaining chain, technopolymer
METRIC
PP

Brass boss with threaded pass-through hole; threaded zinc-plated steel stud.
Diameters: 0.98 - 1.26 - 1.57 - 1.97 - 2.48 inch

VCT-RC
Lobe knobs
with elastic fork, technopolymer
METRIC
PP

Brass boss with threaded pass-through hole or zinc-plated steel threaded stud.
Diameters: 0.98 - 1.26 - 1.57 - 1.97 - 2.48 inch

2.1 Clamping knobs
continues

VCT.SOFT
Lobe knobs
Soft-touch technopolymer
METRIC
SOFT PP

Brass boss with threaded blind hole or zinc-plated steel threaded stud.
Cap in standard colours.
Diameters: 1.69 - 2.09 - 2.60 - 3.03 inch

VCTS-Z
Safety lobe knobs
Technopolymer, push action
INCH METRIC
INOX PA

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: 1.57 - 1.97 inch

VC.692
Lobe knobs with solid section
Technopolymer, easy cleaning
INOX PA

Brass or AISI 303 stainless steel boss, threaded blind hole; zinc-plated steel or AISI 303 stainless steel threaded stud.
Diameters: 0.98 - 1.26 - 1.57 - 1.97 - 2.36 inch

VC.692-CLEAN
Lobe knobs
Technopolymer, easy cleaning
METRIC
INOX CLEAN PA

White colour similar to RAL 9002.
AISI 303 stainless steel boss, threaded blind hole.
Diameters: 1.26 - 1.57 - 1.97 - 2.36 inch

VC.692-CR
Lobe knobs
Technopolymer chrome-plated
METRIC
PA

Technopolymer chrome-plated with polished finish, resistant to wear, rubbing and shocks.
Brass boss, threaded blind hole.
Diameters: 1.26 - 1.57 - 1.97 - 2.36 inch

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

Threaded stud in AISI 303 stainless steel, pressure pad in acetal resin or brass.
Diameters: 0.98 - 1.26 - 1.57 - 1.97 inch

VC.692-SST-p-SV
Lobe knobs with locking thrust pad
Technopolymer
METRIC
INOX PA

AISI 303 stainless steel threaded stud, spherical end.
Diameters: 0.98 - 1.26 - 1.57 - 1.97 - 2.36 inch

VTT
Solid knobs
Technopolymer, easy cleaning
INCH METRIC
INOX PA

Brass or AISI 304 stainless steel boss with threaded blind hole; zinc-plated steel or AISI 304 stainless steel threaded stud.
Diameters: 0.98 - 1.26 - 1.57 - 1.97 - 2.36 inch

VTT-CLEAN
Solid knobs
Technopolymer, easy cleaning
METRIC
INOX CLEAN PA

AISI 304 stainless steel boss, threaded blind hole; stainless steel AISI 304 threaded stud.
Diameters: 0.98 - 1.26 - 1.57 - 1.97 - 2.36 inch

VTT-SST-SAN
Lobe knobs with solid section
Technopolymer with antimicrobial protection
INOX SAN PA METRIC

AISI 304 stainless steel boss, threaded blind hole.
Diameters: 1.57 - 1.97 inch

2.1 Clamping knobs
continues

VTT-SST-VD
Lobe knobs with solid section
Visually Detectable technopolymer, easy cleaning

INOX STAINLESS STEEL · VD · PA · METRIC

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: 1.57 - 1.97 inch

VTT-SST-MD
Lobe knobs with solid section
Metal Detectable technopolymer, easy cleaning

INOX STAINLESS STEEL · MD · PA · METRIC

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: 1.57 - 1.97 inch

VTT-LP
Lobe knobs with solid section
with retaining chain, technopolymer

INOX STAINLESS STEEL · PA · METRIC

Brass or AISI 304 stainless steel boss with threaded blind hole; zinc-plated steel or AISI 304 stainless steel threaded stud.
Diameters: 0.98 - 1.26 - 1.57 - 1.97 - 2.36 inch

VTT-RC
Lobe knobs with solid section
with elastic fork, technopolymer

INOX STAINLESS STEEL · PA · METRIC

Brass or AISI 304 stainless steel boss, threaded blind hole; zinc-plated steel or AISI 304 stainless steel threaded stud.
Diameters: 0.98 - 1.26 - 1.57 - 1.97 inch

VTT-HL
Knob for tightening with spanner
Technopolymer

METRIC

INOX STAINLESS STEEL · PA

Zinc-plated steel or AISI 304 stainless steel hexagonal shank, threaded blind hole.
Diameters: 1.57 - 1.97 - 2.36 inch

VTT-C
Lobe knobs
with cap, technopolymer

METRIC

PA

Brass boss with threaded pass-through hole, zinc-plated steel threaded stud.
Cap in standard colours.
Diameters: 0.98 - 1.26 - 1.57 - 1.97 inch

VMT-SST
Three-arm knobs
Stainless steel, easy cleaning

METRIC

INOX STAINLESS STEEL

Undrilled hub, H7 reamed blind hole, blind or threaded pass-through hole.
Diameters: 0.98 - 1.26 - 1.57 - 1.97 - 2.36 inch

VMT-A4
Three-arm knobs
AISI 316L stainless steel, easy cleaning

METRIC

INOX STAINLESS STEEL

Undrilled hub, H7 reamed blind hole, blind or threaded pass-through hole.
Diameters: 0.98 - 1.26 - 1.57 - 1.97 - 2.36 inch

GN 5334.13
Lobe knobs
with retaining chain or retaining cable, stainless steel

METRIC

INOX STAINLESS STEEL

Hub with threaded blind hole, threaded pin.
Diameters: 1.57 - 1.97 - 2.36 inch

GN 5445
Three-arm knobs
Stainless Steel, Hygienic Design

METRIC

INOX STAINLESS STEEL · HD

Threaded blind hole.
Diameters: 1.57 - 1.97 inch

2.1 Clamping knobs
continues

VLS.
Safety lobe knobs
Technopolymer
METRIC

INOX STAINLESS STEEL · PA

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: 1.65 - 2.17 inch

VLSK
Safety lobe knobs
Technopolymer, with lock
METRIC

SUPER TECHNO POLYMER · PA

Brass boss, threaded pass-through hole;
zinc-plated steel threaded stud.
Diameter: 2.48 inch

VC.253
Shortened lobe knobs
Duroplast
METRIC

PF

Black-oxide steel boss, threaded pass-through hole.
Diameters: 1.57 - 1.97 - 2.36 - 3.35 inch

VC.254
Lobe knobs
Duroplast
METRIC

PF

Brass boss, threaded pass-through hole.
Diameters: 1.57 - 1.97 - 2.36 - 2.76 - 3.35 inch

VC.192
Lobe knobs
Duroplast, easy cleaning
INCH METRIC

INOX STAINLESS STEEL · 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: 0.98 - 1.26 - 1.57 - 1.97 - 2.36 - 2.76 - 3.35 - 3.94 inch

VCM.
Lobe knobs
Aluminum
INCH METRIC

Hub with reamed blind hole, threaded hole or threaded pin.
Diameters: 1.57 - 1.97 - 2.36 - 2.76 inch

VCM-SST
Lobe knobs
Stainless steel
INCH METRIC

INOX STAINLESS STEEL

Hub with H7 reamed blind hole, threaded hole or threaded pin.
Diameters: 1.57 - 1.97 - 2.36 inch

GN 5335
Lobe knobs
AISI 303 stainless steel, easy cleaning
METRIC

INOX STAINLESS STEEL

Undrilled hub, H7 reamed blind hole, blind or threaded pass-through hole, threaded pin.
Diameters: 1.57 - 1.97 - 2.36 inch

GN 5335.4
Lobe knobs
AISI 316L stainless steel, easy cleaning
METRIC

INOX STAINLESS STEEL

Hub with reamed blind hole or threaded blind hole.
Diameters: 1.57 - 1.97 - 2.36 inch

GN 5435
Lobe knobs
Hygienic Design
Stainless steel
METRIC

INOX STAINLESS STEEL · HD

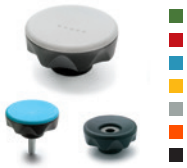
Hub with threaded blind hole.
H-NBR or EPDM synthetic rubber packing ring, FDA compliant.
Diameters: 1.57 - 1.97 inch

elesa

GN Ganter Norm

2.1 Clamping knobs
continues

ELK.
Knobs with rear lobes
Technopolymer
INCH
METRIC
ERGOSTYLE®
PA



Black-oxide steel boss with reamed blind or 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: 1.77 - 2.20 - 2.76 inch

VL.640-FP
Handwheels with lobes
Technopolymer
INCH METRIC
PA

Black-oxide steel hub, with pre-drilled blind hole.
Revolving handle I.281+x
Diameters: 3.15 - 3.94 - 5.12 inch

VL.140-FP
Lobe knobs
Duroplast
INCH
METRIC
PF

Non-drilled black-oxide steel hub with blind pre-drilled hole, reamed pass-through hole, or threaded pass-through hole.
Diameters: 1.97 - 2.36 - 2.76 - 3.15 - 3.94 - 5.12 inch

VL.155
Lobe knobs
Duroplast
METRIC
PF

Black-oxide steel or brass boss with smooth or threaded blind hole; zinc-plated steel threaded stud.
Diameters: 1.97 - 2.36 - 2.76 - 3.15 - 3.94 - 5.12 inch

VH.153
Lobe knobs
Duroplast
METRIC
PF

Black-oxide steel or brass boss with smooth or threaded blind hole; zinc-plated steel threaded stud.
Diameters: 2.13 - 2.44 - 2.91 - 3.35 inch

VTL.
Lobe knobs
Technopolymer
METRIC
PA

Brass boss, threaded blind hole.
Diameter: 1.97 inch

VCHT.
Lobe knobs
Technopolymer, hub with plain or threaded hole
METRIC
PA

Zinc-plated steel hub, H7 reamed or threaded pass-through hole.
Diameters: 0.98 - 1.26 - 1.57 - 1.97 - 2.48 - 2.91 inch

VCRT.
Shortened lobe knobs
Technopolymer, square or threaded hole
PA
METRIC

Brass frame with square pass-through hole; brass boss with threaded pass-through hole.
Diameters: 0.98 - 1.26 - 1.57 - 1.97 - 2.48 - 2.91 - 3.74 inch

VCR.192
Shortened lobe knobs
Duroplast, square hole
METRIC
PF

Brass frame with square pass-through hole.
Diameters: 1.57 - 1.97 - 2.36 - 2.76 - 3.35 - 3.94 inch

VZ.
Knurled grip knobs
Duroplast, square hole
METRIC
PF

Brass frame with square pass-through hole.
Diameters: 1.65 - 2.20 inch

2.1 Clamping knobs
continues

DIN 6335
Star knobs
Cast iron or stainless steel
INCH METRIC
INOX

Hub with reamed blind hole, threaded pass-through or blind hole.
Diameters: 1.26 - 1.57 - 1.97 - 2.48 - 3.15 - 3.94 inch

GN 6335
Star knobs
AISI 316 stainless steel
METRIC
INOX

Hub with threaded pass-through or blind hole.
Diameters: 1.26 - 1.57 - 1.97 - 2.48 inch

GN 6335.5
Star knobs
Stainless steel, aluminium
INOX

Hub with threaded pin.
Diameters: 1.57 - 1.97 - 2.48 inch

DIN 6336
Lobe knobs
Cast iron or stainless steel
METRIC
INOX

Hub with H7 reamed blind hole, threaded pass-through or blind hole.
Diameters: 1.26 - 1.57 - 1.97 - 2.48 - 3.15 inch

GN 6336
Lobe knobs
AISI 316 stainless steel
METRIC
INOX

Hub with threaded pass-through or blind hole.
Diameters: 1.26 - 1.57 - 1.97 - 2.48 inch

GN 6336.5
Lobe knobs
Stainless steel, aluminium
INOX

Hub with threaded pin.
Diameters: 1.57 - 1.97 - 2.48 inch

GN 6336.3
Quick-tightening knobs
Technopolymer
METRIC
INOX PA

Hub with partially threaded pass-through slanting hole.
Diameters: 1.57 - 1.97 - 2.48 inch

GFL
Lobe threaded nut
Technopolymer
METRIC
PA

Brass boss with threaded pass-through hole; threaded zinc-plated steel stud.
Diameters: 1.57 - 1.97 inch

GN 6305.1
Quick-tightening toggle nuts
Steel
METRIC

Hub with partially threaded pass-through slanting hole.
Diameters: 0.94 - 1.02 - 1.26 inch

2.2 Thumb knobs

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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.
Knobs
Technopolymer
METRIC

PA

Brass boss, square, threaded blind or pass-through hole; zinc-plated steel threaded stud.
Diameters: 1.26 - 1.57 - 1.97 - 2.36 inch

VTRM-SST
Knobs
Stainless steel, easy cleaning
METRIC

INOX STAINLESS STEEL

Hub with threaded blind hole.
Diameters: 1.26 - 1.57 - 1.97 - 2.36 inch

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: 1.38 - 1.97 - 2.76 inch

MDA.
Fluted knobs
Technopolymer, assembly with screw

PA

Grey closing cap.
Assembly by means of hexagonal-head screws or standard lock nuts (not supplied) to be press-fitted inside the knob.
Diameters: 1.18 - 1.57 - 1.97 inch

GN 6303.1
Quick-tightening knurled knobs
Steel
METRIC

Hub with partially threaded pass-through slanting hole.
Diameters: 0.79 - 0.94 - 1.18 - 1.42 - 1.57 inch

BT.
Fluted knobs
Technopolymer
INCH METRIC

INOX STAINLESS STEEL PA

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: 0.47 - 0.63 - 0.79 - 0.98 - 1.26 - 1.57 - 1.97 inch

BT-ESD
Fluted knobs
ESD conductive technopolymer
METRIC

ESD PA

Brass boss with threaded blind or pass-through hole; zinc-plated steel threaded stud.
Diameters: 0.63 - 0.79 - 0.98 - 1.26 inch

BT-SST-p-SV
Fluted knobs with locking thrust pad
Technopolymer
METRIC

INOX STAINLESS STEEL PA

AISI 303 stainless steel threaded stud, spherical end.
Diameters: 0.98 - 1.26 - 1.57 inch

BT-AV
Fluted knobs
for screwing with a screwdriver, technopolymer

PA METRIC

Brass boss with threaded blind hole; zinc-plated steel threaded stud.
Diameters: 0.47 - 0.63 - 0.79 inch

BT-HP
Retained fluted knobs
Technopolymer
METRIC

INOX STAINLESS STEEL PA

Zinc-plated steel or AISI 304 stainless steel threaded stud.
Diameters: 0.98 - 1.26 inch

2.2 Thumb knobs
continues

BT-HP-AV
Retained fluted knobs
for screwing with a screwdriver, technopolymer

INOX STAINLESS STEEL · METRIC

Zinc-plated steel or AISI 304 stainless steel threaded stud.
Diameters: 0.47 - 0.63 - 0.79 inch

BTL.
Fluted knobs
Technopolymer, elongated hub

METRIC · PA

Brass boss with threaded blind hole; zinc-plated steel threaded stud.
Diameters: 0.79 - 0.98 inch

B.193
Knurled knobs
Duroplast

METRIC · INOX STAINLESS STEEL · PF

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: 0.59 - 0.71 - 0.87 - 0.98 - 1.18 - 1.38 - 1.57 - 1.97 inch

BM.193-SST
Knurled knobs
Stainless steel

METRIC · INOX STAINLESS STEEL

Hub with threaded blind hole or threaded pin.
Diameters: 0.79 - 0.94 - 1.10 inch

B.259
Knurled knobs
Duroplast

METRIC · PF

Brass boss with threaded blind hole, or zinc-plated steel threaded stud.
Diameters: 0.79 - 0.98 - 1.18 inch

B.259-CLEAN
Knurled knobs
Duroplast, easy cleaning

METRIC · INOX STAINLESS STEEL · CLEAN · PF

AISI 303 stainless steel boss, threaded blind hole.
Diameters: 0.79 - 0.98 - 1.18 inch

B.220
Knurled knobs
Duroplast

METRIC · PF

Black-oxide steel hub, plain blind hole.
Diameter: 1.26 inch

DIN 6303
Knurled knobs
Steel

METRIC

Plain or threaded pass-through hole, with or without transverse semi-hole.
Diameters: 0.79 - 0.94 - 1.18 - 1.42 - 1.57 inch

DIN 6303-NI
Knurled knobs
Stainless steel

METRIC · INOX STAINLESS STEEL

Threaded pass-through hole, with or without transverse semi-hole.
Diameters: 0.79 - 0.94 - 1.18 - 1.42 - 1.57 inch

DIN 464
Knurled knobs
Steel or stainless steel

METRIC · INOX STAINLESS STEEL

Threaded pin.
Diameters: 0.47 - 0.63 - 0.79 - 0.94 - 1.18 - 1.42 inch

2.2 Thumb knobs
continues

GN 464.1
Knurled knobs
with hexagon socket
METRIC

PP

Zinc-plated steel.
Threaded pin.
Diameters: 0.79 - 0.94 - 1.18 - 1.42 inch

DIN 466
Knurled knobs
Steel or stainless steel
METRIC

INOX STAINLESS STEEL

Hub with threaded pass-through hole.
Diameters: 0.63 - 0.79 - 0.94 - 1.18 - 1.42 inch

DIN 653
Knurled knobs
Steel or stainless steel
METRIC

INOX STAINLESS STEEL

Threaded pin.
Diameters: 0.47 - 0.63 - 0.79 - 0.94 - 1.18 - 1.42 inch

GN 653.2
Retained screws with knurled knob
Steel or stainless steel
METRIC

INOX STAINLESS STEEL

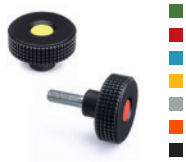
Partially threaded pin.
Diameters: 0.63 - 0.79 - 0.94 -30 inch

DIN 467
Knurled knobs
Steel or stainless steel
METRIC

INOX STAINLESS STEEL

Threaded pass-through hole.
Diameters: 0.47 - 0.63 - 0.79 - 0.94 - 1.18 - 1.42 - 1.57 inch

MBT.
Diamond-cut knobs
Technopolymer
INCH METRIC



PP

Brass boss with plain or threaded blind hole; threaded zinc-plated steel stud.
Cap in standard colours.
Diameters: 1.18 - 1.57 - 1.97 - 2.36 - 2.76 inch

MBT.SOFT
Fluted knobs
Soft-touch technopolymer
INCH METRIC

SOFT PP TPE

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: 1.77 - 2.17 inch

2.3 Wing nuts

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EWN.
Wing Nuts
Technopolymer
INCH METRIC

INOX STAINLESS STEEL ERGOSTYLE® PA

Brass or AISI 303 stainless steel boss, threaded blind or pass-through hole; zinc-plated steel or AISI 303 stainless steel threaded stud.
Cap in standard colours.
Diameters: 1.57 - 1.85 - 2.17 - 2.48 - 2.76 inch

EWN-SST-SAN
Wing Nuts
Technopolymer with antimicrobial protection
METRIC

INOX STAINLESS STEEL SAN ERGOSTYLE® PA

AISI 304 stainless steel boss, threaded blind hole.
Centre cap in charcoal grey or white colours.
Diameters: 1.57 - 2.17 inch

2.3 Wing nuts
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
Technopolymer, pad
METRIC
INOX STAINLESS STEEL ERGOSTYLE® PA

Threaded stud in AISI 303 stainless steel, pressure pad in acetal resin or brass.
Cap in standard colours.
Diameters: 1.85 - 2.17 - 2.76 inch

EWN-LP
Wing Nuts
with retaining chain, technopolymer
METRIC
INOX STAINLESS STEEL ERGOSTYLE® PA

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: 1.85 - 2.17 - 2.48 inch

EWN-RC
Wing Nuts
with elastic fork, technopolymer
METRIC
INOX STAINLESS STEEL ERGOSTYLE® PA

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: 1.85 - 2.17 - 2.48 inch

ESN.
Single wing nuts
Technopolymer
INCH
METRIC
ERGOSTYLE® PA

Brass boss, threaded pass-through hole.
Cap in standard colours.
Diameters: 2.17 - 2.76 inch

CWN.
Wing Nuts
Technopolymer
INCH
METRIC
PA

Brass boss with threaded blind or pass-through hole; zinc-plated steel threaded stud.
Diameters: 1.26 - 1.57 inch

EWNM-SST
Wing Nuts
Stainless steel
METRIC
INOX STAINLESS STEEL ERGOSTYLE®

Threaded blind or pass-through hole, threaded pin.
Diameters: 1.57 - 1.89 - 2.17 inch

GN 8341
Wing Nuts
Stainless Steel AISI 316, Hygienic Design
METRIC
INOX STAINLESS STEEL HD

Blue H-NBR or EPDM synthetic rubber packing ring, FDA-compliant.
Hub with threaded blind hole.
Diameters: 1.57 - 1.97 - 2.48 inch

GN 8350
Wing Nuts
AISI 316 stainless steel
METRIC
INOX STAINLESS STEEL

Threaded pin.
Diameters: 1.26 - 1.57 - 1.97 - 2.48 inch

CT.476
Wing screws
Technopolymer
INCH
METRIC
INOX STAINLESS STEEL PA

Brass boss with threaded pass-through or blind hole; zinc-plated steel or AISI 303 stainless steel threaded stud.
Diameters: 0.79 - 0.98 - 1.18 - 1.57 - 1.89 - 2.20 inch

CT-FG
Wing screws
With flange, technopolymer
METRIC
INOX STAINLESS STEEL

Brass boss with threaded blind hole; zinc-plated steel or AISI 304 stainless steel threaded stud.
Diameters: 0.98 - 1.18 inch

2.3 Wing nuts
continues

CTL.476
Wing screws
Technopolymer
METRIC

PA

Brass boss with threaded blind or pass-through hole; zinc-plated steel threaded stud.
Diameters: 0.98 - 1.18 - 1.57 - 1.89 - 2.20 inch

GN 433
Wing screws
Stainless steel
METRIC

INOX STAINLESS STEEL

Hub with threaded pin.
Diameters: 0.79 - 1.02 - 1.34 inch

GN 434
Wing screws
Stainless steel
METRIC

INOX STAINLESS STEEL

Hub with threaded blind hole.
Diameters: 0.79 - 1.02 - 1.34 inch

GN 431 - GN 432
Wing screws
Stainless steel
METRIC

INOX STAINLESS STEEL

Threaded pin or threaded blind hole.
Diameters: 0.98 - 1.18 - 1.42 inch

2.4 Torque limiting knobs

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Material
- Technopolymer (4)
- Aluminium - Steel (1)

Type of assembly
- Blind hole (5)
- Threaded screw (4)

VTD
Torque limiting knob
Technopolymer
METRIC

PA

Zinc-plated steel boss with threaded blind hole.
Grey closing cap.
Spring of the torque limiter from 2 Nm to 6 Nm.
Diameters: 2.36 - 3.15 inch

MZD
Adjustable torque limiting knobs
Technopolymer
METRIC

PA

Black-oxide steel boss with threaded blind hole or threaded screw.
Grey closing cap.
Adjustable torques from 0.2 to 1.0 Nm
Diameter 1.85 inch

GN 3663
Torque limiting knob
Aluminium and steel
METRIC

Hub with threaded blind hole or threaded screw.
Grey closing cap.
Spring of the torque limiter from 0.7 Nm to 5.5 Nm.
Diameters: 1.06 - 1.34 - 1.65 - 2.05 - 2.44 inch

GN 3664
Torque limiting knobs
SUPER-technopolymer
METRIC

PA

Black-oxide steel boss with threaded blind hole or threaded screw.
Grey closing cap.
Spring of the torque limiter from 2 Nm to 7.5 Nm.
Diameters: 1.97 - 2.48 - 3.15 inch

CTD
Torque limiting wing knobs
Technopolymer
METRIC

PA

Threaded blind hole or threaded screw.
Spring of the torque limiter from 2 Nm to 3 Nm.
Diameter: 1.89 inch

Elesa offers a range of **products** and **straightforward solutions** designed to keep **clamping elements** securely attached to machinery, ensuring compliance with **Machinery Directive 2006/42/EC**. This European regulation governs the manufacture, market placement, and commissioning of machines, setting out **essential safety and performance requirements**. Beyond the serious risk to **worker safety**, the loss of machine components can lead to production delays, machine downtime, and increased maintenance costs. For designers and mechanical engineers, ensuring all machine components - including retained clamping elements - meet the Machinery Directive is a **fundamental design consideration**.

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

GN 653.2
Retained screws with knurled knob

The Elesa range also includes a series of **retaining cables** or **chains** to prevent the loss of machine components.

CV-T
Polyethylene and stainless steel retaining cables

CT-S
Technopolymer and stainless steel ball chains

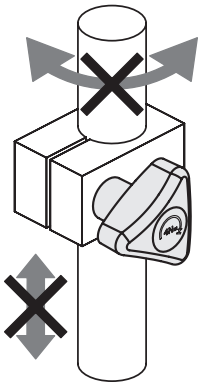
GN 111
Brass and stainless steel ball chains

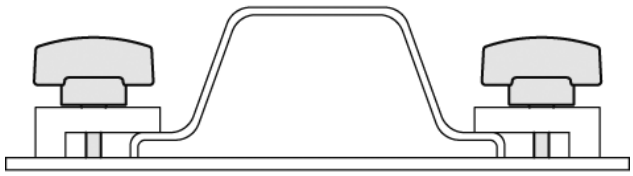
GN 111.2
Stainless steel retaining cables also with black or transparent PVC coating

GN 111.4
Polyurethane and stainless steel spiral retaining cables

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														

3 Clamping handles

Adjustable handles and levers in a wide range of materials for repetitive clamping operations where the lever turning angle 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 Adjustable handles

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Material

- Technopolymer (12)
- Steel (3)
- Stainless steel (16)
- Aluminium (1)
- Die-cast zinc alloy (11)

Type of assembly

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

MRT.
Adjustable handles
Technopolymer
INCH
METRIC
INOX STAINLESS STEEL 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.
Technopolymer push button, glossy finish.
Dimensions: 1.65 - 2.56 - 3.15 inch

ERX.
Adjustable handles
Technopolymer
INCH
METRIC
INOX STAINLESS STEEL ERGOSTYLE® PA

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: 1.18 - 1.73 - 2.48 - 3.07 - 3.74 - 4.25 inch

ERX-CR
Adjustable handles
Technopolymer chrome-plated
METRIC
ERGOSTYLE® PA

Technopolymer element with brass boss and threaded blind hole.
Dimensions: 1.73 - 2.48 - 3.07 - 3.74 inch

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: 1.57 - 1.97 inch

ERX-AV
Adjustable handles
Quick assembly, technopolymer
METRIC
ERGOSTYLE® PA

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: 3.07 inch

ERS.
Safety adjustable handles
Push action, technopolymer
INCH METRIC
ERGOSTYLE® PA

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: 1.73 - 2.48 inch

MRX.
Adjustable handles
Technopolymer
INCH
METRIC
INOX STAINLESS STEEL 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: 1.65 - 2.48 - 3.15 - 3.94 inch

MR.
Adjustable handles
Technopolymer
INCH
METRIC
PA

Technopolymer clamping element with black-oxide steel or brass boss with plain or threaded blind hole; zinc-plated steel threaded stud.
Dimensions: 1.65 - 2.48 - 3.15 - 3.94 inch

3.1 Adjustable handles

continues

ERZ.
Adjustable handles
Technopolymer, steel or stainless steel clamping element

INCH METRIC

INOX STAINLESS STEEL ERGOSTYLE® PA

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: 1.73 - 2.48 - 3.07 - 3.74 inch

ERZ-SST-SAN
Adjustable handles
Technopolymer with antimicrobial protection

METRIC

INOX STAINLESS STEEL SAN PA ERGOSTYLE®

Zinc alloy insert for coupling to the clamping element.
AISI 303 stainless steel clamp, threaded hole.
Dimensions: 2.48 - 3.07 inch

ERZ-SST-VD
Adjustable handles
Visually Detectable technopolymer, stainless steel clamping element

METRIC

INOX STAINLESS STEEL VD PA ERGOSTYLE®

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: 2.48 - 3.07 inch

ERZ-SST-MD
Adjustable handles
Metal Detectable technopolymer, stainless steel clamping element

METRIC

INOX STAINLESS STEEL MD PA ERGOSTYLE®

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: 2.48 - 3.07 inch

MRY-SST-HVD
Watertight adjustable handles
Visually Detectable technopolymer

INOX STAINLESS STEEL VD METRIC

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: 2.48 - 3.07 inch

ERM.
Adjustable handles
Zinc alloy, steel or stainless steel clamping element

INCH METRIC

INOX STAINLESS STEEL ERGOSTYLE®

Orange, red, grey or black colour.
Black-oxide steel or AISI 303 stainless steel clamping element, threaded hole or threaded pin.
Dimensions: 1.73 - 2.48 - 3.07 - 3.74 inch

GN 300
Adjustable handles
Zinc alloy

INCH METRIC

Black-oxide steel clamping element, threaded hole or threaded pin. Dimensions: 1.18 - 1.77 - 2.48 - 3.07 - 3.62 - 4.25 inch

GN 300.1
Adjustable handles
Zinc alloy

INCH METRIC

AISI 303 stainless steel clamping element, threaded hole or threaded pin. Dimensions: 1.18 - 1.77 - 2.48 - 3.07 - 3.62 - 4.25 inch

GN 300.5
Adjustable handles
Stainless steel

INCH METRIC

INOX STAINLESS STEEL

AISI 303 stainless steel clamping element, threaded hole or threaded pin. Dimensions: 1.18 - 1.77 - 2.48 - 3.07 - 3.62 - 4.25 inch

GN 305
Adjustable handles
Stainless Steel, Hygienic Design

METRIC

INOX STAINLESS STEEL HD

AISI 316 stainless steel lever.
H-NBR synthetic rubber packing ring, FDA compliant. AISI 304 stainless steel clamp, threaded hole or pin.
Dimensions: 2.48 - 3.07 inch

3.1 Adjustable handles
continues

GN 306
Adjustable handles
with clamping ends, zinc alloy
METRIC

Clamp and threaded pin in black-oxide steel. Pressure pad in brass or technopolymer, spherical tip or oval tip or thrust pad.
Dimensions: 1.18 - 1.77 - 2.48 inch

ERW.
Adjustable handles
Flat lever, technopolymer
INCH METRIC
INOX STAINLESS STEEL ERGOSTYLE® PA

Technopolymer element with brass or AISI 303 stainless steel boss, threaded blind hole; zinc-plated steel or AISI 303 stainless steel threaded stud.
Dimensions: 0.87 - 1.18 - 1.73 - 2.48 - 3.07 inch

GN 302
Adjustable handles
Flat lever, zinc alloy, steel clamping element
INCH
METRIC

Black-oxide steel clamping element, threaded hole or threaded pin.
Dimensions: 1.18 - 1.77 - 2.48 - 3.07 inch

GN 302.1
Adjustable handles
Flat lever, zinc alloy, stainless steel clamping element
INOX STAINLESS STEEL METRIC

AISI 303 stainless steel clamp, threaded hole or pin.
Dimensions: 1.18 - 1.77 - 2.48 - 3.07 inch

GN 302.2
Adjustable handles
Flat lever, zinc alloy, zinc-plated steel clamping element
METRIC

Zinc-plated steel clamp, threaded hole or pin.
Dimensions: 0.87 - 1.18 - 1.77 - 2.48 - 3.07 inch

GN 300.4
Adjustable handles
with torque amplifier, zinc alloy and steel
METRIC

Black-oxide steel clamping element, threaded hole or threaded pin.
Dimensions: 2.48 - 3.07 - 3.62 - 4.25 inch

GN 307
Adjustable handles
with support washer, die-cast zinc and steel
METRIC

Black-oxide steel clamping element, threaded hole or threaded pin.
Dimensions: 1.18 - 1.77 - 2.48 - 3.07 inch

GN 126
Adjustable handles
Zinc alloy lever, steel clamping element
METRIC

Black-oxide steel clamping element, threaded hole or threaded pin.
Dimensions: 4.72 - 5.71 inch

GN 126.1
Adjustable handles
Zinc alloy lever, stainless steel clamping element
METRIC
INOX STAINLESS STEEL

Black-oxide steel clamping element, threaded hole or threaded pin.
Dimensions: 4.72 - 5.71 inch

GN 125
Adjustable handles
Steel
INCH
METRIC

Black-oxide steel lever with straight or slightly inclined arm. Black-oxide steel clamping element, threaded hole or threaded pin. Duroplast handle.
Dimensions: 3.94 - 4.72 - 5.12 - 5.71 inch

3.1 Adjustable handles

continues

GN 6337.3
Adjustable handles
Push action, steel

METRIC

Black-oxide steel clamping element, threaded hole or threaded pin.
Duroplast handle.
Dimensions: 2.76 - 3.43 - 4.29 inch

GN 212.3 - GN 212.4
Adjustable handles
Steel

INCH
METRIC

Black-oxide steel clamping element, threaded hole or threaded pin.
Duroplast handle.
Dimensions: 3.43 - 4.02 - 4.57 - 5.20 - 5.83 inch

3.2 Lever handles

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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)

ERF.
Lever handles
Technopolymer

METRIC

ERGOSTYLE® PA

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: 1.73 - 2.48 - 3.07 - 3.74 inch

ERFW.
Flat lever handles
Technopolymer

ERGOSTYLE® PA

Brass boss with threaded blind hole, cylindrical blind hole and brass reinforcement with transversal semi-machined hole for pinning to shaft.
Dimensions: 1.73 - 2.48 - 3.07 inch

MF.
Lever handles
Technopolymer

METRIC

PA

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: 1.65 - 2.48 - 3.15 - 3.94 inch

M.180
Lever handles
Duroplast

METRIC

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: 3.11 - 3.90 - 4.65 inch

DIN 6337
Lever handles
Steel

METRIC

Cylindrical or threaded pass-through hole.
Dimensions: 2.36 - 2.99 - 3.74 - 4.69 - 5.98 inch

GN 206
Lever handles
Cast iron or stainless steel

METRIC

INOX STAINLESS STEEL

Threaded pass-through hole.
Dimensions: 2.20 - 2.76 - 3.43 - 4.29 - 5.51 inch

DIN 99
Lever handles
Steel or stainless steel

METRIC

INOX STAINLESS STEEL

Cylindrical or threaded pass-through hole.
Dimensions: 1.89 - 2.36 - 2.99 - 3.74 - 4.69 - 5.98 inch

GN 99.5 - GN 99.6
Lever handles
Steel or stainless steel

METRIC

INOX STAINLESS STEEL

Threaded pass-through hole.
Dimensions: 1.97 - 2.36 - 3.15 - 3.94 - 4.72 inch

3.2 Lever handles

continues

GN 99.7 - GN 99.8
Clamping nuts with double lever
Steel or stainless steel
METRIC
INOX

Threaded pass-through hole.
Dimensions: 1.97 - 2.36 - 3.15 - 3.94 - 4.72 inch

GN 206.1-NI
Clamping nuts with double levers
Stainless steel
METRIC
INOX

Threaded pass-through hole.
Dimensions: 2.17 - 2.76 - 3.35 - 4.33 - 5.51 inch

GN 216
Lever handles
Steel
METRIC

Duroplast handle.
H7 reamed blind hole or threaded blind hole.
Dimensions: 3.35 - 3.94 - 4.53 - 5.12 - 5.71 - 6.50 inch

GN 316
Ratchet spanners
Steel
METRIC

Duroplast handle.
Insert with square hole.
Dimensions: 4.72 - 6.10 - 7.28 - 8.66 inch

GN 150 - GN 150.5
Split hubs
Steel or stainless steel
METRIC
INOX

Cylindrical head screw with black-oxide steel or AISI 304 stainless steel hexagon socket.
Dimensions: 0.94 - 1.10 - 1.26 inch

3.3 Cam clamps

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Material

- Technopolymer (2)
- Steel (2)
- Stainless steel (2)
- Die-cast zinc alloy (2)

Type of assembly

- Blind hole (5)
- Threaded screw (8)

LAC.
Cam clamping levers
Technopolymer
METRIC
INOX
SUPER TECHNO POLYMER
PA

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: 1.73 - 2.48 - 3.11 inch

LAC-FL
Cam levers
for quick clamping, technopolymer
METRIC
INOX
SUPER TECHNO POLYMER

Threaded pin in SUPER-technopolymer.
Elastic expansion retention element in synthetic rubber.
With or without anti-rotation pin.
Dimension: 2.17 inch

GN 927
Cam clamping levers
Zinc alloy
METRIC

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: 1.73 - 2.48 - 3.23 - 3.98 inch

GN 927.2
Cam levers
Steel
METRIC

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: 1.73 - 2.48 - 3.23 - 3.98 inch

3.3 Cam clamps

continues

GN 927.3
Cam clamping levers
Steel
METRIC

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: 1.73 - 2.48 - 3.23 - 3.98 inch

GN 927.4
Cam clamping levers
Zinc alloy and stainless steel
METRIC
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: 1.73 - 2.48 - 3.23 - 3.98 inch

GN 927.5
Cam clamping levers
Stainless steel
METRIC
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: 1.73 - 2.48 - 3.23 - 3.98 inch

4 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

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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)

M.443
Bridge handles
Technopolymer
METRIC

PROFILE COMPATIBLE PA

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: 3.70 - 4.61 - 4.72÷4.80 - 5.20 - 5.51 - 5.87÷5.98 - 5.91 - 6.30 - 7.05 - 9.25 inch

M.443 ESD
Bridge handles
ESD conductive technopolymer
METRIC

ESD PROFILE COMPATIBLE PA

Front mounting via pass-through holes for cylindrical-head screws with hexagon socket. Assembly centre distances: 3.70 - 4.61 inch

M.443 AE-V0
Bridge handles
Self-extinguishing technopolymer
METRIC

PROFILE COMPATIBLE PA

Front mounting via pass-through holes for cylindrical-head screws with hexagon socket. Assembly centre distances: 3.70 - 4.61 - 5.20 - 7.05 inch

M.453-SEMI-S8
Bridge handles
According to SEMI-S8 guidelines, technopolymer

PROFILE COMPATIBLE PA METRIC

Front mounting via pass-through holes for cylindrical-head screws with hexagon socket. Assembly centre distance: 5.91 inch

M.543
Bridge handles
Technopolymer
INCH
METRIC

PA

Available in black or orange colour.
Rear mounting via brass bosses, threaded blind holes or threaded studs.
Assembly centre distance: 3.70 - 4.13 - 4.61 - 5.20 - 7.05 inch

M.343-SOFT
Bridge handles
Technopolymer with Soft-touch ergonomic inserts
METRIC

SOFT PP TPE

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: 5.20 inch

EMPC.
Bridge handles
Technopolymer
METRIC

PROFILE COMPATIBLE ERGOSTYLE® PA

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: 4.61÷4.72 inch

MPC
Bridge handle
Technopolymer
METRIC

PROFILE COMPATIBLE PA

Front or rear mounting via pass-through holes for cylindrical-head screws with hexagon socket, hexagonal-head screws or nuts.
Assembly centre distances: 4.61÷4.72 inch

4.1 Bridge handles

continues

EBP.
Bridge handles
Technopolymer
INCH
METRIC
PROFILE COMPATIBLE ERGOSTYLE® PA

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: 3.70 - 4.61 - 4.72 - 5.20 - 5.91 - 7.09 inch

EBP-SAN
Bridge handles
Technopolymer with antimicrobial protection
METRIC
SAN ERGOSTYLE® PA

Front mounting via pass-through holes for cylindrical-head screws with hexagon socket.
Assembly centre distances: 4.61 - 7.09 inch

EBP.FLX
Flexible bridge handles
Technopolymer with elastomer
PROFILE COMPATIBLE METRIC ERGOSTYLE® PP

Boss caps in standard colours.
Front mounting via brass bosses with pass-through holes for cylindrical-head screws with hexagon socket.
Assembly centre distances: 4.61 - 5.91 inch

EBP-L
Bridge handles
Technopolymer
METRIC
PROFILE COMPATIBLE ERGOSTYLE® PA

Boss caps 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 distance: 11.81 inch

EBP-L-CLEAN
Bridge handles
Technopolymer, easy cleaning
METRIC
CLEAN PROFILE COMPATIBLE ERGOSTYLE®

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: 11.81 inch

EBR.
Bridge handle
Technopolymer
METRIC
ERGOSTYLE® PA

Boss caps in standard colours.
Front mounting via pass-through holes for cylindrical-head screws with hexagon socket.
Assembly centre distance: 5.20 inch

M.2000
Bridge handle
Self-extinguishing technopolymer
METRIC
PA

Rear mounting via brass bosses with threaded blind holes.
Assembly centre distance: 7.09 inch

M.478
Bridge handle
Technopolymer
PA

Front mounting via pass-through holes for screws or rivets.
Assembly centre distance: 5.91 inch

M.479
Bridge handles
Technopolymer
METRIC
PA

Threaded pin in SUPER-technopolymer.
Elastic expansion retention element in synthetic rubber.
With or without anti-rotation pin.
Dimension: 2.17 inch

M.843
Bridge handles
Technopolymer
INCH
METRIC
PA

Available in standard colours.
Rear mounting via brass bosses, threaded blind holes.
Assembly centre distance: 3.39 - 4.61 - 7.05 - 11.81 inch

4.1 Bridge handles

continues

M.843-CLEAN
Bridge handles
Technopolymer, easy cleaning
METRIC
INOX STAINLESS STEEL · CLEAN · PA

For application with medical, hospital and food equipment. Rear mounting via AISI 303 stainless steel bosses, threaded blind holes.
Assembly centre distance: 3.39 - 4.61 - 7.05 - 11.81 inch

M.243
Bridge handles
Duroplast
METRIC
PF

Rear mounting via brass bosses, threaded blind holes.
Assembly centre distances: 3.39 - 4.61 - 7.05 inch

M.643
Bridge handles
Technopolymer
INCH
METRIC
PP

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: 3.39 - 3.70 - 4.61 - 4.72 - 5.20 - 5.51 - 5.91 - 6.30 - 7.05 - 7.56 - 9.25 - 11.81 inch

M.643 HT
Bridge handles
Technopolymer with high thermic resistance
METRIC
HT · PA

Rear mounting via brass bosses, threaded blind holes.
Assembly centre distances: 3.39 - 4.61 - 7.05 inch

M.643-SST-VD
Bridge handles
Visually Detectable technopolymer
METRIC
INOX STAINLESS STEEL · VD · PA

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: 4.61 - 7.05 inch

M.643-SST-MD
Bridge handles
Metal Detectable technopolymer
METRIC
INOX STAINLESS STEEL · MD · PA

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: 4.61 - 7.05 inch

GN 565
Bridge handles
Aluminum
METRIC
PROFILE COMPATIBLE

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: 3.94 - 4.41 - 4.61 - 4.72 - 5.04 - 6.30 - 7.09 - 7.87 - 9.25 inch

GN 565-SMA
Bridge handles
Aluminium with antibacterial coating
METRIC
SAN · PROFILE COMPATIBLE

Oval cross section bar.
Back mounting with threaded blind holes.
Assembly centre distances: 3.94 - 4.41 - 5.04 - 6.30 - 7.56 - 11.81 inch

GN 565-WSA
Bridge handles
Aluminium with antibacterial coating
METRIC
SAN · PROFILE COMPATIBLE

Oval cross section bar.
Back mounting with threaded blind holes.
Assembly centre distances: 3.94 - 4.41 - 5.04 - 6.30 - 7.56 - 11.81 inch

GN 565.1
Bridge handles
Aluminum
METRIC
PROFILE COMPATIBLE

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: 3.94 - 4.41 - 4.61 - 4.72 - 5.04 - 5.20 - 6.30 - 7.09 - 7.87 inch

4.1 Bridge handles
continues

GN 565.5
Bridge handles
Stainless steel
METRIC

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: 4.41 - 5.04 - 6.30 - 7.87 - 9.84 - 11.81 - 13.78 - 15.75 - 19.69 inch

GN 426.3
Tubular Handles
Steel

Tube in oiled steel.
Welded mounting.
Assembly centre distances: 5.91 - 7.87 - 9.84 - 11.81 - 15.75 - 19.69 - 23.62 inch

GN 425.3
Bridge handles
Mounted by means of welding, steel or stainless steel
METRIC

Round-section bar, sandblasted finish, without mounting holes.
Assembly centre distances: 2.52 - 3.46 - 3.94 - 4.92 - 6.30 - 7.87 - 9.84 inch

GN 435
Stainless Steel-Cabinet U-handles
tall design, stainless steel
METRIC

Round-section bar in AISI 303 stainless steel or with epoxy resin coating, black colour.
Back mounting with threaded blind holes.
Assembly centre distances: 4.92 - 6.30 - 7.87 - 11.81 inch

GN 435.3
Stainless Steel-Cabinet U-handles
tall design, for welding, stainless steel
METRIC

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: 4.92 - 6.30 - 7.87 - 11.81 inch

GN 429
Bridge handles
Stainless Steel, Hygienic Design
METRIC
FDA

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: 4.92 - 6.30 - 7.87 - 9.84 - 11.81 inch

GN 426
Bridge handles
Aluminum
METRIC

Aluminium bar with epoxy resin coating, natural, black or grey colour.
Back mounting with threaded blind holes.
Assembly centre distances: 7.87 - 9.84 - 11.81 - 13.78 - 15.75 inch

GN 426-SMA
Bridge handles
Aluminium with antibacterial coating
METRIC

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: 7.87 - 9.84 - 11.81 - 15.75 inch

GN 426-WSA
Bridge handles
Aluminium with antibacterial coating
METRIC

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: 7.87 - 9.84 - 11.81 - 15.75 inch

GN 426.5
Bridge handles
Stainless steel
METRIC

Bar or tube in AISI 304 stainless steel, sandblasted matte finish.
Assembly centre distance: 7.87 - 9.84 - 11.81 - 15.75 inch

4.1 Bridge handles

continues

GN 425
Bridge handles
Steel, stainless steel, aluminium
METRIC
INOX STAINLESS STEEL

Round-section bar in chrome-plated, black-oxide steel, stainless steel or in aluminium with anodised finish or with epoxy resin coating. Back mounting with threaded blind holes. Assembly centre distances: 2.52 - 3.46 - 3.94 - 4.72 - 4.92 - 6.30 - 7.09 - 7.87 - 9.25 - 9.84 - 11.81 inch

GN 427
Bridge handles
Aluminum
METRIC

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: 3.46 - 3.94 - 4.72 - 7.09 - 7.87 - 9.25 inch

GN 668
Bridge handles
Aluminum
METRIC

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: 4.72 - 6.30 - 7.09 - 7.87 - 9.84 - 11.81 - 13.78 - 15.75 inch

RH-M1
Bridge handles
Aluminum
METRIC

Round-section bar in anodised aluminium, natural or black colour.
Back mounting with threaded blind holes.
Assembly centre distances: 7.87 - 9.84 - 11.81 - 13.78 - 15.75 inch

RH-VA
Bridge handles
AISI 316L stainless steel
METRIC
INOX STAINLESS STEEL

Round-section bar in AISI 316L stainless steel, matte finish. Rear mounting with screws and washers (included in supply).
Assembly centre distances: 7.87 - 9.84 - 11.81 - 13.78 inch

RH-UG-08
Bridge handles
AISI 316L stainless steel
METRIC
INOX 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: 3.94 - 4.72 - 5.51 - 6.30 - 7.09 inch

RH-M1-CLEAN
Bridge handles
Aluminum
METRIC
CLEAN

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: 7.87 - 9.84 - 11.81 - 13.78 - 15.75 inch

RH-MF
Bridge handles
Oval flat cross section, aluminium
METRIC

Bar with flat cross section in anodised aluminium, natural or black colour.
Back mounting with threaded blind holes.
Assembly centre distances: 4.72 - 5.51 - 7.09 - 7.87 - 13.78 inch

RH-EF
Bridge handles
Oval flat cross section, AISI 316L stainless steel
METRIC
INOX 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: 3.94 - 4.72 - 5.91 - 7.09 - 9.84 - 13.78 inch

RH-MF-CLEAN
Bridge handles
Oval flat cross section, aluminium
METRIC
CLEAN

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: 4.72 - 5.51 - 7.09 - 7.87 - 13.78 inch

4.1 Bridge handles

continues

RH-OA
Handles
Oval flat cross section, aluminium
METRIC

Bar with flat cross section in anodised aluminium, natural or black colour.
Back mounting with threaded blind holes.
Assembly centre distances: 2.17 - 3.46 - 3.94 - 4.72 - 7.09 - 7.87 - 9.25 - 9.84 inch

RH-OA-CLEAN
Bridge handles
Oval flat cross section, aluminium
METRIC
CLEAN

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: 2.17 - 3.46 - 3.94 - 4.72 - 7.09 - 7.87 - 9.25 - 9.84 inch

MMT.
Handles for heat insulation
Steel and technopolymer
METRIC

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: 4.72 - 7.09 inch

RH-ST
Bridge handles
Round cross section, steel
METRIC

Bar in steel, chrome-plated surface.
Washers in chrome-plated brass.
Back mounting with threaded blind holes.
Assembly centre distances: 1.26 - 1.65 - 2.17 - 2.52 - 2.99 - 3.46 inch

RH-EM
Bridge handles
AISI 316L stainless steel
METRIC
INOX 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: 7.87 - 11.81 inch

RH-SS
Bridge handles
Round cross section, steel
METRIC

Bar in chrome-plated steel.
Plastic central grip zone. Mounts in chrome-plated brass. Back mounting with threaded blind holes.
Assembly centre distances: 2.17 - 3.46 - 3.94 - 4.72 - 7.09 - 7.87 inch

RH-ET-CLEAN
Bridge handles
Stainless steel
METRIC
INOX STAINLESS STEEL
CLEAN

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: 3.94 - 4.72 - 5.51 - 7.87 inch

RH-R
Bridge handles
Rectangular cross section, aluminium
METRIC

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: 2.17 - 3.46 - 4.72 - 7.09 - 9.25 inch

RH-S1
Bridge handles
Rectangular cross section, aluminium
METRIC

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: 0.98 - 2.17 - 3.46 - 4.72 - 7.09 inch

RH-MG
Bridge handles
Rectangular cross section, aluminium
METRIC

Bar with rectangular cross-section in anodised aluminium, natural or black colour.
Back mounting with threaded blind holes.
Assembly centre distances: 3.54 - 4.72 inch

4.1 Bridge handles
continues

RH-MG-CLEAN
Bridge handles
Rectangular cross section, aluminium
METRIC

CLEAN

Epoxy resin coating, white colour.
Back mounting with threaded blind holes.
For application with medical and food equipment.
Assembly centre distance: 4.72 inch

RH-UG
Bridge handles
Rectangular cross section, technopolymer and aluminium
METRIC

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: 2.17 - 3.46 - 3.94 - 4.72 - 7.09 inch

RH-UG-05
Bridge handles
Rectangular cross section, technopolymer and aluminium
METRIC

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: 3.46 - 3.94 - 4.72 - 7.09 - 9.25 inch

M.943
Bridge handles
Suitable for applications on a 19 rack, technopolymer

PA METRIC

Rear mounting via brass bosses with threaded blind holes.
Assembly centre distance: 3.46 - 4.72 inch

M.943-HT
Bridge handles
Technopolymer with high thermic resistance
METRIC

HT PA

Rear mounting via brass bosses with threaded blind holes.
Assembly centre distance: 3.46 - 4.72 inch

GN 565.3
Bridge handles
Aluminum
METRIC

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: 4.72 - 6.30 inch

GN 728 - GN 728.5
Bridge handles
Aluminium or stainless steel
METRIC

INOX STAINLESS STEEL PROFILE COMPATIBLE

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: 4.72 - 7.09 inch

GN 328
Bridge handles
Aluminum
METRIC

PROFILE COMPATIBLE

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: 4.72 - 5.51 inch

GN 328.5
Bridge handles
AISI 316 stainless steel
METRIC

INOX STAINLESS STEEL PROFILE COMPATIBLE

Rear mounting via threaded blind holes or front mounting via pass-through holes for cylindrical-head screws with hexagon socket.
Assembly centre distances: 4.72 - 5.51 inch

GN 428
Bridge handles
Aluminum
METRIC

PROFILE COMPATIBLE

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: 4.72 - 5.51 inch

4.1 Bridge handles
continues

RH-RG
Bridge handles
Technopolymer
METRIC

PA

Front mounting via pass-through holes for cylindrical-head screws with hexagon socket, nuts and zinc-plated washers, included in supply. Assembly centre distances: 3.94 - 4.72 - 5.51 - 6.30 - 7.09 inch

RH-K4
Bridge handles
Technopolymer

PA

Front mounting via pass-through holes for countersunk-head screws with hexagon socket, nuts and zinc-plated washers, included in supply.
Assembly centre distances: 4.72 - 5.91 inch

RH-AG
Bridge handles
Aluminum
METRIC

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: 4.72 - 5.51 - 6.30 inch

RH-EG
Bridge handles
Stainless steel
METRIC

INOX STAINLESS STEEL

Back mounting with threaded blind holes.
Assembly centre distances: 5.51 - 7.09 inch

RH-AG-CLEAN
Bridge handles
Aluminum
METRIC

CLEAN

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: 5.51 - 7.09 inch

RH-VG
Offset handles
AISI 316L stainless steel
METRIC

INOX 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: 9.84 - 11.81 inch

GN 425.1
Double-curved handles
Steel, stainless steel, aluminium

INOX STAINLESS STEEL METRIC

Round cross section bar.
Back mounting with threaded blind holes.
Assembly centre distances: 2.17 - 2.52 - 3.46 - 3.78 - 3.94 - 4.72 - 6.30 - 7.09 - 7.87 inch

GN 426.1 - GN 426.6
Double-curved tubular handles
Aluminium or stainless steel

INOX STAINLESS STEEL METRIC

Aluminium bar or tube with epoxy resin coating, black or stainless steel.
Back mounting with threaded blind holes.
Assembly centre distances: 7.87 - 9.84 - 11.81 - 13.78 - 19.69 inch

M.743
Inclined handles
Technopolymer
METRIC

PP

Rear mounting via brass bosses, threaded blind holes.
Assembly centre distance: 6.30 inch

GN 565.2 - GN 565.7
Inclined handles
Aluminium or stainless steel
METRIC

INOX STAINLESS STEEL PROFILE COMPATIBLE

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: 4.41 - 5.04 - 6.30 inch

4.1 Bridge handles

continues

RH-AM
Inclined double-curved handles
Steel
METRIC

Round-section bar in steel, chrome-plated surface, polished finish.
Back mounting with threaded blind holes.
Assembly centre distance: 4.72 inch

RH-WS
Angled handles
Round cross section, steel
METRIC

Round-section bar in steel, chrome-plated surface, polished finish.
Back mounting with threaded blind holes.
Assembly centre distances: 2.95 - 3.54 inch

GN 565.4
Bow handles
Aluminum
METRIC

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: 6.30 - 7.56 inch

GN 565.9
Bow handles
Stainless steel
METRIC

INOX 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: 6.30 - 7.56 inch

GN 424.1 - GN 424.5
Bow handles
Steel or stainless steel
METRIC

INOX 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: 2.52 - 3.78 - 5.04 - 6.30 - 7.56 inch

GN 559
Bridge handles
Aluminum
METRIC

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: 5.04 inch

RH-KW
Handles
Technopolymer
METRIC

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 5.04 - 6.06 inch

RH-AH
Handles
Aluminum
METRIC

Anodised aluminium, natural or black colour.
Back mounting with threaded blind holes.
Dimensions 4.92 - 6.50 inch

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: 7.99 - 8.78 - 9.37 - 9.49 - 10.55 inch

4.2 Flush pull handles

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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
Flush pull handles
for snap-in assembly, technopolymer

PA

Compact shape. The internal profile of the cavity offers a safe, comfortable and ergonomic grip.
Dimensions: 3.62 - 5.39 - 7.44 inch

PR-PF-CLEAN
Flush pull handles
for snap-in assembly, technopolymer, easy cleaning

CLEAN PA

Compact shape. The internal profile of the cavity offers a safe, comfortable and ergonomic grip.
For applications with medical and hospital equipment and machines for the food industry.
Dimensions: 3.62 - 5.39 - 7.44 inch

PR-PF-AE-V0
Flush pull handles
for snap-in assembly, technopolymer certified self-extinguishing

PA

Compact shape. The internal profile of the cavity offers a safe, comfortable and ergonomic grip.
Dimensions: 3.62 - 5.39 - 7.44 inch

EPR-PF
Flush pull handles
for snap-in assembly, technopolymer

ERGOSTYLE® PA

The internal cavity profile allows a secure, comfortable and ergonomic grip.
Dimensions: 3.54 - 4.33 - 4.72 inch

EPR-PF-CLEAN
Flush pull handles
for snap-in assembly, technopolymer, easy cleaning

CLEAN ERGOSTYLE® PA

The internal cavity profile allows a secure, comfortable and ergonomic grip.
For application with medical and food equipment.
Dimensions: 3.54 - 4.33 - 4.72 inch

EPR-PF-AE-V0
Flush pull handles
for snap-in assembly, technopolymer certified self-extinguishing

ERGOSTYLE® PA

The internal cavity profile allows a secure, comfortable and ergonomic grip.
Dimensions: 3.54 - 4.33 - 4.72 inch

GN 7330
Flush pull handles
for mounting with screws, with or without gasket, zinc alloy

METRIC

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: 5.00 - 6.10 inch

GN 7332
Flush pull handles
for mounting with screws, with or without gasket, stainless steel

INOX METRIC

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: 5.00 - 6.10 inch

EPR-PF-IP
Flush pull handles with gasket
for snap-in assembly, technopolymer

ERGOSTYLE® PA

The internal cavity profile allows a secure, comfortable and ergonomic grip.
IP 65 protection class.
Dimensions: 4.33 - 4.72 inch

EPR.
Flush pull handles
for screw mounting, technopolymer

ERGOSTYLE® PA

Screw-cover in standard colours.
Front mounting via pass-through holes for self-tapping screws in AISI 304 stainless steel.
Dimensions: 3.54 - 4.33 - 4.72 inch

4.2 Flush pull handles

continues

RH-SG
Flush pull handles
Technopolymer and aluminium
METRIC

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 inch. Dimensions: 3.94x3.54 - 4.65x3.54 - 6.57x3.54 inch

RH-SG-CLEAN
Flush pull handles
Technopolymer and aluminium
METRIC
CLEAN

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: 3.94x3.54 - 4.65x3.54 - 6.57x3.54 inch

ERB-PF
Vertical tubular handles
for snap-in assembly, technopolymer
PA

Suitable for opening and closing sliding doors. The ergonomic shape of the cavity provides a comfortable grip.
Dimension: 4.53 inch

ERB-PF-CLEAN
Vertical tubular handles
for snap-in assembly, technopolymer, easy cleaning
CLEAN PA

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: 4.53 inch

ERB-PF-AE-V0
Vertical tubular handles
for snap-in assembly, technopolymer certified self-extinguishing
PA

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: 4.53 inch

ERB.
Vertical tubular handles
for screw mounting, technopolymer
ERGOSTYLE® PA

Mounting via 4 self-tapping screws in zinc-plated steel, included in the supply.
Dimension: 5.12 inch

ERB-CLEAN
Vertical tubular handles
for screw mounting, technopolymer, easy cleaning
CLEAN PA ERGOSTYLE®

Mounting via 4 self-tapping screws in zinc-plated steel, included in the supply.
For application with medical and food equipment.
Dimension: 5.12 inch

RH-KS
Vertical tubular handles
for screw mounting, technopolymer
CLEAN PA

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 inch.
Dimension: 5.51 inch

RH-KM
Flush pull handles
for screw mounting, technopolymer
CLEAN PA

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 inch.
Dimension: 4.72 inch

4.3 Ledge handles

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Material

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

Type of assembly

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

MLP
Side handles with protection
Technopolymer
METRIC
PA

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: 5.59 inch

EWP.
Ledge handles
Technopolymer
PROFILE COMPATIBLE ERGOSTYLE® PA

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: 3.70 inch

ESP.
Ledge handles
Technopolymer
PROFILE COMPATIBLE ERGOSTYLE® PA

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: 3.70 inch

M.990
Ledge handles
Technopolymer
PROFILE COMPATIBLE PA

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: 3.74 inch

MSP.
Ledge handles
Technopolymer
METRIC
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: 3.15 inch

GN 730
Ledge handles
Aluminum
METRIC

Anodised aluminium, natural colour or epoxy resin coating, black colour.
Back mounting with threaded blind holes.
Assembly centre distances: 4.33 - 4.92 - 5.51 inch

GN 730.5
Handles for protection
Stainless steel
METRIC
INOX STAINLESS STEEL

AISI 316 stainless steel, sandblasted matte finish.
Back mounting with threaded blind holes.
Assembly centre distance: 3.94 inch

GN 430 - GN 430.1
Ledge handles
Aluminum
METRIC

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: 2.60 - 3.39 - 4.17 - 6.14 - 8.11 - 10.08 - 14.02 - 17.95 inch

RH-EL
Ledge handles
Stainless steel
METRIC
INOX STAINLESS STEEL

Back mounting with threaded blind holes.
Assembly centre distances: 2.36 - 3.15 - 3.94 - 5.12 inch

RH-LF
Ledge handles
Aluminum

Front mounting via pass-through holes for flat countersunk-head screws.
Assembly centre distances: 2.68 - 3.46 - 4.25 inch

4.3 Ledge handles

continues

RH-WP
Inclined handles
Aluminum
METRIC

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: 3.39 - 3.94 - 4.72 inch

RH-W3
Ledge handles
Aluminum
METRIC

Back mounting with threaded blind holes.
Assembly centre distances: 8.27 - 12.20 inch

RH-W3-CLEAN
Ledge handles
Aluminum
METRIC
CLEAN

Back mounting with threaded blind holes. For applications with medical and hospital equipment and machines for the food industry.
Assembly centre distances: 8.27 - 12.20 inch

RH-LG
Ledge handles
Aluminum
METRIC

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: 2.52 - 2.76 - 3.15 - 3.54 - 4.13 inch

MFT
Front handles
Technopolymer
METRIC
PA

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: 2.80 inch

RH-AK
Handles
Aluminum
METRIC

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: 4.72 inch

4.4 Folding handles

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MRH
Folding handles with recessed tray
for screw mounting, technopolymer
METRIC
INOX STAINLESS STEEL
SUPER TECHNO POLYMER
PA

Mounting on panels with a maximum thickness of 0.47 inch using fixing plugs and Ø 0.14 inch 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: 3.23 inch

MPR
Folding handles with recessed tray
with return spring, technopolymer
PA
METRIC

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: 5.55 - 6.57 inch

MPR-CLEAN
Folding handles with recessed tray
with return spring, technopolymer, easy cleaning
CLEAN
PA
METRIC

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: 5.55 - 6.57 inch

GN 425.8
Folding handle with recessed tray
Steel or stainless steel
METRIC
INOX 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: 5.91 - 6.69 inch

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)

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.
Front mounting via pass-through holes for M4 countersunk-head screws.
Dimensions: 5.12 - 7.87 inch

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: 2.95 inch

RH-EE-05
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: 1.97 inch

RH-EE-03
Folding handles 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: 5.20 inch

RH-EE-07
Folding handles 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: 5.20 inch

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: 4.72 inch

RH-EE-06
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: 1.97 inch

MPE
Folding handles
with return spring, technopolymer

METRIC

PA

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: 5.31 inch

MPE-CLEAN
Folding handles
with return spring, technopolymer, easy cleaning

CLEAN PA METRIC

Front mounting via pass-through holes for flat countersunk-head screws.
AISI 303 stainless steel pin.
For application with medical and food equipment. Dimension: 5.31 inch

GN 425.9
Folding handles
Stainless steel

METRIC

INOX 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: 4.72 inch

4.4 Folding handles

continues

RH-KK
Folding handles
Technopolymer

METRIC

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: 6.06 inch

RH-MK
Folding handles
Steel

METRIC

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: 3.94 - 4.72 - 7.09 - 9.84 inch

RH-EK
Folding handles
Stainless steel

METRIC

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: 3.94 - 4.72 - 7.09 - 9.84 inch

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)

ETH.
Tubular handles
Technopolymer and aluminium

ERGOSTYLE® 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: 11.81 - 15.75 - 19.69 - 27.56 - 39.37 inch

ETH-CLEAN
Tubular handles
Technopolymer and aluminium, easy cleaning

PROFILE COMPATIBLE CLEAN ERGOSTYLE® PA

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: 11.81 - 15.75 - 19.69 - 27.56 - 39.37 inch

M.1043
Tubular Handles
Technopolymer, aluminium, stainless steel

METRIC

INOX STAINLESS STEEL PROFILE COMPATIBLE PA

Tube in aluminium with epoxy resin coating, anodised or AISI 304 stainless steel. 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: 7.09 - 7.87 - 11.81 - 13.78 - 15.75 - 19.69 - 23.62 - 27.56 inch

M.1043-SCM
Tubular handles with intermediate shank
Technopolymer and aluminium

PROFILE COMPATIBLE PA METRIC

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: 27.56 - 39.37 inch

M.1043-SCM-SST
Tubular handles with intermediate shank
Technopolymer and stainless steel

INOX STAINLESS STEEL PROFILE COMPATIBLE METRIC

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: 27.56 - 39.37 inch

M.1043-HEI
Tubular handles for electrical insulation
Technopolymer and polyester

PA METRIC

Polyester tube, black colour, high resistivity. Tube anti-rotation side mounts. Rear mounting via brass bosses with threaded blind holes. Assembly centre distances: 19.69 - 27.56 inch

4.5 Tubular handles

continues

M.1066
Tubular handles
Technopolymer, aluminium, stainless steel

METRIC

INOX STAINLESS STEEL PA

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: 7.87 - 9.84 - 11.81 - 15.75 - 19.69 - 23.62 inch

M.1066-CLEAN
Tubular handles
Technopolymer, aluminium, easy cleaning

METRIC

CLEAN PA

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: 7.87 - 9.84 - 11.81 - 15.75 - 19.69 - 23.62 inch

GN 333.1
Tubular handles
Zinc alloy and aluminium

METRIC

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: 7.09 - 7.87 - 11.81 - 15.75 - 19.69 inch

GN 333.7
Tubular Handles
Stainless steel

METRIC

INOX 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: 7.87 - 11.81 - 19.69 inch

EVH.
Tubular Handles
Oval cross section, technopolymer and aluminium

PROFILE COMPATIBLE ERGOSTYLE® 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, screws with hexagon socket or nuts.
Assembly centre distances: 11.81 - 13.78 - 15.75 - 19.69 - 23.62 - 27.56 inch

EVH-CLEAN
Tubular handles
Oval cross section, technopolymer and aluminium, easy cleaning

PROFILE COMPATIBLE CLEAN ERGOSTYLE® PA

Tube in coated aluminium, white colour.
Side mounts in technopolymer; screw covers in technopolymer. Front mounting via pass-through holes for cylindrical-head screws, hexagonal-head screws or nuts. For application with medical and food equipment. Assembly centre distances: 11.81 - 15.75 - 19.69 - 27.56 - 39.37 inch

GN 334
Tubular oval-cross-section handles
Oval cross section, zinc alloy and aluminium

METRIC

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: 7.87 - 9.84 - 11.81 - 15.75 - 19.69 - 23.62 - 31.50 inch

GN 334.1
Tubular oval-cross-section handles
Oval cross section, zinc alloy and aluminium

PROFILE COMPATIBLE METRIC

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: 7.87 - 9.84 - 11.81 - 15.75 - 19.69 - 23.62 - 31.50 inch

GN 335
Tubular Handles
Oval cross section, zinc alloy and aluminium

METRIC

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: 7.87 - 9.84 - 11.81 - 15.75 - 19.69 - 23.62 - 31.50 inch

GN 669
Tubular handles
Aluminum

METRIC

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: 7.87 - 11.81 - 19.69 inch

4.5 Tubular handles

continues

RH-A3
Tubular handles
Aluminum
METRIC

Tube in anodised extruded aluminium, black colour. Side mounts in anodised aluminium, black colour. Back mounting with threaded blind holes. Assembly centre distances: 7.87 - 9.84 - 11.81 - 15.75 inch

RH-TL.A3
Tubular handles
Aluminium and stainless steel
METRIC
INOX

Tube in AISI 304 stainless steel.
Side mounts in anodised extruded aluminium, natural colour. Back mounting with threaded blind holes.
Assembly centre distances: 7.87 - 11.81 - 15.75 inch

RH-ES
Tubular handles
Stainless steel
METRIC
INOX

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: 7.87 - 11.81 - 15.75 - 19.69 - 23.62 inch

RH-FG16-00
Tubular Handles
Stainless steel or Technopolymer
INOX

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: 7.09 - 7.87 inch

RH-EU
Tubular handles
Stainless steel
METRIC
INOX

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: 7.87 - 9.84 - 11.81 - 13.78 - 15.75 inch

RH-U2
Tubular handles
Aluminium and stainless steel
METRIC
INOX

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: 19.69 - 27.56 inch

RH-TL.U3
Tubular handles
Aluminium and stainless steel
METRIC
INOX

Tube in AISI 304 stainless steel.
Side mounts in anodised extruded aluminium, natural colour.
Back mounting with threaded blind holes.
Assembly centre distances: 11.81 - 19.69 - 27.56 inch

RH-RR
Tubular Handles
Technopolymer and aluminium or stainless steel
INOX METRIC

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: 7.87 - 9.84 - 11.81 - 15.75 - 19.69 - 23.62 inch

RH-RS
Tubular Handles
Technopolymer and aluminium or stainless steel
INOX METRIC

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: 7.87 - 9.84 - 11.81 - 15.75 - 19.69 - 23.62 inch

RH-VM
Tubular Handles
Technopolymer and aluminium
METRIC

Tube in anodised extruded aluminium, natural or black colour.
Side mounts in technopolymer, black colour.
Back mounting with threaded blind holes.
Assembly centre distances: 7.87 - 9.84 - 11.81 inch

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: 7.87 - 9.84 - 11.81 - 15.75 inch

RH-UR
Tubular Handles
Technopolymer and aluminium
METRIC

Bar in anodised aluminium, black colour. Side mounts in technopolymer, black colour. Back mounting with threaded blind holes. Assembly centre distances: 2.17 - 3.46 - 3.94 - 4.72 - 7.09 inch

RH-SP
Offset tubular handle
Technopolymer
METRIC

PA

Rear mounting via brass bosses, threaded blind holes.
Assembly centre distance: 5.51 inch

RH-A4
Tubular handles
Oval cross section, aluminium
METRIC

Tube in anodised extruded aluminium, black colour. Side mounts in anodised aluminium, black colour. Back mounting with threaded blind holes. Assembly centre distance: 7.87 - 9.84 - 11.81 - 15.75 inch

RH-U4
Tubular handles
Oval cross section, aluminium
METRIC

Tube in anodised extruded aluminium, black colour. Side mounts in anodised aluminium, black colour. Back mounting with threaded blind holes. Assembly centre distances: 11.81 - 19.69 - 27.56 inch

M.1053
Offset tubular handles
Technopolymer and aluminium

PROFILE COMPATIBLE PA

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: 11.81 - 13.78 - 15.75 - 19.69 - 23.62 - 27.56 inch

M.1053-CLEAN
Offset tubular handles
Technopolymer and aluminium, easy cleaning

PROFILE COMPATIBLE CLEAN 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: 11.81 - 13.78 - 15.75 - 19.69 - 23.62 - 27.56 inch

M.1053-SST
Offset tubular handles
Technopolymer and stainless steel

INOX STAINLESS STEEL PROFILE COMPATIBLE PA

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: 11.81 - 13.78 - 15.75 - 19.69 - 23.62 - 27.56 inch

M.1053-P
Offset tubular handles
Movable handle shanks, technopolymer and aluminium

PROFILE COMPATIBLE PA

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: 11.61 - 13.58 - 15.55 - 19.49 - 23.43 - 27.36 inch

M.1053-P-CLEAN
Offset tubular handles
Movable handle shanks, technopolymer and aluminium, easy cleaning

PROFILE COMPATIBLE CLEAN 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: 11.61 - 13.58 - 15.55 - 19.49 - 23.43 - 27.36 inch

4.5 Tubular handles

continues

M.1053-P-SST
Offset tubular handles
Movable handle shanks, technopolymer and stainless steel

INOX STAINLESS STEEL · PROFILE COMPATIBLE · PA

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: 11.61 - 13.58 - 15.55 - 19.49 - 23.43 - 27.36 inch

GN 333.3
Tubular handles with movable handle shanks
Movable handle shanks, technopolymer and aluminium

METRIC

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: 9.53 - 15.43 - 19.37 - 23.31 inch

RH-VR
Tubular Handles
adjustable, technopolymer and stainless steel centre distance

INOX STAINLESS STEEL · METRIC

Tube in AISI 304 stainless steel.
Side mounts in technopolymer, black colour.
Back mounting with threaded blind holes.
Assembly centre distances: 7.87 - 9.84 - 11.81 - 15.75 - 19.69 inch

GN 333
Offset tubular handles
Zinc alloy and aluminium

METRIC

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: 7.09 - 7.87 - 11.81 - 15.75 - 19.69 inch

GN 333.6
Adjustable shank handles
Stainless steel

METRIC · INOX 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: 7.87 - 9.84 - 11.81 - 15.75 - 19.69 - 23.62 inch

RH-W5
Adjustable shank handles
Aluminum

METRIC

Anodised aluminium tube, natural colour.
Side mounts in anodised extruded aluminium, black colour. Back mounting with threaded blind holes. Assembly centre distances: 7.87 - 11.81 - 19.69 inch

RH-W1
Offset tubular handles
Aluminum

METRIC

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: 7.87 - 11.81 - 19.69 inch

RH-W1-CLEAN
Offset tubular handles
Aluminum

METRIC · CLEAN

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: 7.87 - 11.81 - 19.69 inch

RH-WR
Offset tubular handles
Aluminum

METRIC

Tube in anodised extruded aluminium, natural colour. Side mounts in anodised extruded aluminium, natural colour.
Back mounting with threaded blind holes.
Assembly centre distances: 11.81 - 19.69 inch

RH-TL.WR
Offset tubular handles
Aluminium and stainless steel

METRIC · INOX 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: 7.87 - 11.81 - 15.75 - 19.69 inch

4.5 Tubular handles

continues

RH-A1
Tubular Handles
Aluminum
METRIC

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: 3.46 - 3.94 - 4.72 - 7.87 inch

RH-A2
Tubular handles
Aluminum
METRIC

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: 7.87 - 11.81 - 19.69 inch

RH-M3
Tubular handles
Technopolymer and aluminium
METRIC

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: 7.87 - 11.81 - 15.75 inch

RH-KG
Double-curved handles
Aluminum
METRIC

Round-section bar in anodised aluminium, black colour.
Back mounting with threaded blind holes.
Assembly centre distances: 9.84 - 11.81 - 13.78 - 15.75 - 19.69 - 23.62 inch

RH-M4
Double-curved handles
Aluminum
METRIC

Round-section bar in anodised aluminium, black or natural colour. Back mounting with threaded blind holes. Assembly centre distances: 7.87 - 13.78 - 19.69 inch

RH-M4-CLEAN
Double-curved handles
Aluminum
METRIC

CLEAN

Round-section bar in aluminium, epoxy resin coating. Back mounting with threaded blind holes. For application with medical and food equipment. Assembly centre distances: 7.87 - 13.78 - 19.69 inch

RH-ER-33
Tubular and double-curved handles
Stainless steel
METRIC

INOX 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: 11.81 - 13.78 - 19.69 inch

RH-HS-30
Modular tubular handles
Aluminum
METRIC

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: 7.87 - 11.81 - 15.75 - 19.69 - 23.62 - 27.56 inch

RH-AR
Handles
Rectangular cross section, aluminium
METRIC

Profile in anodised aluminium, natural colour.
Side mounts in anodised aluminium, natural colour.
Back mounting with threaded blind holes.
Assembly centre distances: 11.81 - 19.69 inch

RH-HV
Tubular handles
Rectangular cross section, aluminium
METRIC

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: 11.81 - 19.69 - 27.56 inch

4.5 Tubular handles

continues

RH-MS
Tubular handles
Rectangular cross section, aluminium
METRIC

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: 7.87 - 9.84 - 11.81 - 15.75 - 19.69 inch

GN 666.4
Bent tubular handles
Aluminum
METRIC

Aluminium tube, anodised, natural or with epoxy resin coating. Side mounts in aluminium, epoxy resin coating. Back mounting with threaded blind holes. Assembly centre distances: 15.75 - 19.69 - 23.62 inch

GM.A
Bent tubular handles
Aluminium and stainless steel
METRIC
INOX STAINLESS STEEL

Tube in AISI 304 stainless steel nut, thickness 1.5 inch. Side mounts in aluminium, epoxy resin coating, black colour.
Back mounting with threaded blind holes.
Assembly centre distances: 19.69 - 23.62 inch

GN 665
Arch-shaped handles
Zinc alloy and aluminium
METRIC

Bar with oval cross section in aluminium, epoxy resin coating.
Side mounts in zinc alloy.
Rear mounting via screws and washers.
Assembly centre distances: 13.78 - 17.72 inch

RH-GM.B
Bent tubular handles
Aluminium and stainless steel
METRIC
INOX 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: 19.69 - 23.62 inch

RH-TL.GM
Bent tubular handles
Aluminium and stainless steel
METRIC
INOX STAINLESS STEEL

AISI 304 stainless steel tube, ground surface.
Side mounts in anodised aluminium, natural colour.
Back mounting with threaded blind holes.
Assembly centre distances: 19.69 - 23.62 inch

RH-BG
Bent handles
Aluminum
METRIC

Bar with oval cross section in anodised aluminium, black or natural colour.
Back mounting with threaded blind holes.
Assembly centre distances: 13.78 - 15.75 - 17.72 - 19.69 - 23.62 - 27.56 - 31.50 inch

RH-ER-30
Bent handles
Stainless steel
METRIC
INOX STAINLESS STEEL

Tube in AISI 316L stainless steel.
Rear mounting via AISI 316L stainless steel threaded bosses for M8x14 screws.
Assembly centre distances: 17.72 - 23.62 - 31.50 inch

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: 3.94 - 11.81 - 19.69 inch

4.6 Handles with electrical switch

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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

ERGOSTYLE® PA

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: 5.20 inch

M.2000-SWM

Handles with monostable switch and LED indicator light

Self-extinguishing technopolymer

PA METRIC

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: 7.09 inch

ESC-SFT

Handles with built-in safety switch

Technopolymer

PA

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: 4.49 inch

CN-SFT

Safety control unit for category 3 and 4

Technopolymer

PA

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: 4.49 inch

FC-ESC

Connector cable M12x1

For ESC-SFT

PA

Cable with grey PVC sheath.
AISI 316 stainless steel nut.
8-pin M12x1 female connector with technopolymer housing and contact holder.

RH-FG11

Tubular handles with built-in microswitch

Technopolymer

METRIC

PA

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: 7.09 inch

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.
Assembly centre distance: 7.09 inch

RH-FG16.36

Tubular handles with electrical switches

Stainless steel

INOX 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: 7.87 inch

RH-FG17

Tubular handle with LED

Round section, technopolymer and aluminium

PA METRIC

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: 11.81 inch

RH-FG18-01 - RH-FG18-02

Tubular handle with electrical switches

Technopolymer and aluminium

PA METRIC

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: 5.51 inch

4.7 Handles with pneumatic valve

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Material

- Technopolymer (3)
- Aluminium (2)

Type of assembly

- Blind hole (3)

EBR-PN
Handle with pneumatic valve
Technopolymer

ERGOSTYLE® PA

Allows direct control of a single-acting or a double-acting pneumatic actuator.
Quick-release couplings for direct insertion of a tube (Ø0.16 inch inch) for pneumatics. Rear mounting via bosses with threaded blind holes.
Assembly centre distance: 5.20 inch

RH-FG18-P3
Handles with 3/2 pneumatic valve
Technopolymer and aluminium

METRIC
PA

Allows direct control of a single-acting pneumatic actuator with one or two independent controls.
Quick-release couplings for direct insertion of a tube (Ø0.16 inch inch) for pneumatics. Rear mounting via bosses with threaded blind holes.
Assembly centre distance: 5.51 inch

RH-FG18-P5
Handles with 5/2 pneumatic valve
Technopolymer and aluminium

PA METRIC

Allows direct control of one or two double-acting pneumatic actuators.
Quick-release couplings for direct insertion of a tube (Ø0.16 inch inch) for pneumatics. Rear mounting via bosses with threaded blind holes.
Assembly centre distance: 5.51 inch

4.8 Finger handles

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Material

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

Type of assembly

- Blind hole (5)

MFH
Finger handles
Technopolymer

METRIC
PA

Rear mounting via blind holes for fixing by means of No. 2 self-tapping screws Ø0.14, not included in supply.
Assembly centre distances: 1.18 - 1.57 inch

MFH-CLEAN
Finger handles
Technopolymer, easy cleaning

METRIC
CLEAN PA

For application with medical and food equipment. Rear mounting via blind holes for fixing by means of No. 2 self-tapping screws Ø0.14, not included in supply.
Assembly centre distances: 1.18 - 1.57 inch

MFH-CR
Finger handles
Technopolymer

METRIC
CHROME 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 Ø0.14, not included in supply.
Assembly centre distances: 1.18 - 1.57 inch

GN 224.1 - GN 224.5
Finger handles
Steel or stainless steel

METRIC
INOX

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: 1.18 - 1.57 inch

RH-FM
Thimble-shaped handles
Technopolymer

PA

Rear mounting via brass boss with threaded blind hole.
Dimensions: 1.02 - 1.18 inch

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

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Material

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

Type of assembly

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

EKK.
Knurled knobs
Technopolymer
INCH
METRIC
ERGOSTYLE® PA

Available in standard colours.
Brass boss, threaded blind hole or zinc-plated steel threaded stud.
Diameters: 0.63 - 0.71 - 0.83 - 0.98 - 1.22 - 1.38 inch

EKK-SST-SAN
Knurled knobs
Technopolymer with antimicrobial protection
METRIC
INOX STAINLESS STEEL SAN ERGOSTYLE® PA

AISI 304 stainless steel boss, threaded blind hole.
Diameters: 0.83 - 1.22 inch

EKK-SST-VD
Knurled knobs
Visually Detectable technopolymer
METRIC
INOX STAINLESS STEEL VD ERGOSTYLE® PA

Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011).
AISI 304 stainless steel boss, threaded blind hole.
Diameters: 0.83 - 1.22 inch

EKK-SST-MD
Knurled knobs
Metal Detectable technopolymer
METRIC
INOX STAINLESS STEEL MD ERGOSTYLE® PA

Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011).
AISI 304 stainless steel boss, threaded blind hole.
Diameters: 0.83 - 1.22 inch

GN 676.5
Knobs
Stainless steel
METRIC
INOX STAINLESS STEEL

Plain or knurled rim, threaded blind hole.
Diameters: 0.83 - 0.98 - 1.22 inch

GN 75
Knobs
Steel
METRIC

Threaded blind hole or threaded pin.
Diameters: 0.63 - 0.79 - 0.98 - 1.26 - 1.42 inch

GN 75.5
Knobs
Stainless steel
METRIC
INOX STAINLESS STEEL

Threaded blind hole or threaded pin.
Diameters: 0.63 - 0.79 - 0.98 - 1.26 - 1.42 inch

GN 75.6
Knobs Hygienic Design
AISI 316L stainless steel
METRIC
HD INOX 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: 0.79 - 0.98 - 1.26 inch

5.1 Knobs

continues

P.131
Mushroom knobs
Duroplast
METRIC

PA

Threaded blind hole or threaded pin.
Diameters: 1.38 - 1.77 inch

I.150
Mushroom knobs
Duroplast
METRIC

PF

Threaded blind hole.
Diameters: 0.98 - 1.26 inch

5.2 T-Handles

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Material
- Technopolymer (3)
- Duroplast (1)
- Aluminium (1)
- Stainless steel (1)

Type of assembly
- Blind hole (5)
- Threaded screw (3)

L.652
T-Handles
Technopolymer
INCH
METRIC

PA

Available in standard colours.
Brass boss, plain or threaded blind hole or zinc-plated steel threaded stud.
Dimensions: 1.57 - 2.17 - 2.64 - 3.15 - 3.70 inch

L.652-S
Safety T-Handles
Technopolymer, push action
INCH METRIC

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 “push” mechanism. Dimensions: 2.64 - 3.15 inch

L.652-X
Adjustable T-Handles
Technopolymer
INCH
METRIC

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: 2.64 - 3.15 inch

L.652M
T-Handles
Aluminum
METRIC

Available in natural aluminium or with epoxy resin coating, black colour.
Plain or threaded blind hole.
Dimensions: 2.17 - 2.64 - 3.15 inch

GN 5063
T-Handles
AISI 316 stainless steel

INOX STAINLESS STEEL

Available with a sandblasted matte or polished finish.
Plain or threaded blind hole.
Dimensions: 2.48 - 3.15 - 3.94 inch

L.152
T-Handles
Duroplast
METRIC

PF

Black-oxide steel hub, plain or threaded blind hole.
Dimensions: 2.76 - 3.15 - 3.74 inch

5.3 Fixed handles

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EBK.SOFT
Mushroom lobe handles
Soft-touch technopolymer
INCH METRIC

SOFT ERGOSTYLE® PP

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: 1.69 - 1.97 inch

EBK-C SOFT
Mushroom lobe handles
Soft-touch technopolymer
METRIC

SOFT ERGOSTYLE® PP

Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011).
Available in standard colours.
Brass boss with threaded blind hole or zinc-plated steel threaded stud.
Diameters: 1.69 - 1.97 inch

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

METRIC

SOFT ERGOSTYLE® PP

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: 1.69 - 1.97 inch

IEL.N SOFT
Mushroom handles
Soft-touch technopolymer

SOFT PP

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: 1.85 - 2.56 inch

IEL.N-H SOFT
Mushroom handles
with lens, Soft-touch technopolymer

SOFT 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: 2.56 inch

IH.N
Tapered handles
with lens, Soft-touch technopolymer

PA

Transparent technopolymer lens and labels with marks and symbols.
Plain blind hole, press-fit assembly by means of the elastic coupling.
Dimension: 1.57 - 1.97 inch

SH.N
Spherical knobs
with lens, Duroplast

PF

Transparent technopolymer magnifying lens for the application of labels with marks and symbols. Technopolymer self-locking boss, plain blind hole, press-fit assembly by means of the elastic coupling.
Diameters: 1.38 - 1.57 - 1.77 inch

MA.
Labels with marks and symbols
Self-adhesive aluminium

Self-adhesive vinyl film.
Mounting with lens.
Dimension: 0.79 - 0.98 inch

I.622
Fixed handles
Technopolymer

INCH
METRIC

PA

Available in standard colours.
Threaded blind hole.
Dimensions: 0.98 - 1.18 - 1.57 - 2.17 inch

I.622 N
Tapered handles
Technopolymer

INCH
METRIC

PA

Available in black or red colour.
Plain blind hole.
Dimension: 0.98 - 1.18 - 1.57 - 2.17 inch

I.622 N-CLEAN
Tapered handles
Technopolymer, easy cleaning

METRIC

CLEAN PA

White colour similar to RAL 9002.
Plain blind hole.
Dimension: 0.98 - 1.18 - 1.57 - 2.17 inch

I.222
Tapered handles
Duroplast

METRIC

PF

Threaded blind hole or self-locking boss with plain blind hole.
Dimension: 0.98 - 1.18 - 1.57 - 2.17 - 2.76 - 3.54 inch

5.3 Fixed handles

continues

P.111
Spherical knobs
Duroplast
METRIC

PF

Threaded blind hole.
Diameters: 1.46 - 1.85 inch

PLX.
Spherical knobs
Duroplast
INCH
METRIC

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: 0.47 - 0.63 - 0.79 - 0.98 - 1.18 - 1.26 - 1.38 - 1.57 - 1.77 - 1.97 inch

PLM
Spherical knobs
Steel or stainless steel
METRIC

INOX STAINLESS STEEL

Plain or threaded blind hole.
Diameters: 0.63 - 0.79 - 0.98 - 1.26 - 1.57 - 1.97 inch

P.390
Tapered handles
Duroplast

PF

Plain blind hole.
Diameters: 0.98 - 1.38 - 1.57 inch

I.307
Tapered handles
Duroplast
METRIC

PF

Brass boss, threaded blind hole.
Diameters: 0.79 - 0.98 - 1.18 inch

EGH.SOFT
Cylindrical lobe handle
Soft-touch technopolymer
METRIC

SOFT ERGOSTYLE® PA

Plain blind hole, press-fit assembly by means of the elastic coupling.
Dimension: 3.35 inch

I.137
Tapered handles
Duroplast
METRIC

PF

Threaded blind hole.
Dimensions: 2.76 - 3.15 inch

I.142
Tapered handle
Duroplast
METRIC

PF

Threaded blind hole.
Dimensions: 2.36 inch

I.147
Tapered handles
Duroplast
METRIC

PF

Threaded blind hole.
Dimensions: 1.57 - 1.97 - 2.36 - 2.95 inch

I.149
Tapered handles
Duroplast
METRIC

PF

Threaded blind hole.
Dimensions: 2.56 - 3.35 inch

5.3 Fixed handles

continues

I.195
Tapered handle
Duroplast
METRIC

PF

Threaded blind hole.
Dimensions: 2.36 inch

I.218
Shaped handle
Duroplast
METRIC

PF

Threaded blind hole.
Dimensions: 2.36 inch

I.168 SOFT
Knurled handle
Soft-touch technopolymer
METRIC

SOFT PA

Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011).
Brass boss, plain blind hole.
Dimension: 2.36 inch

I.780-N
Cylindrical fixed handles
Technopolymer

PA

Blind hole.
Dimensions: 1.57 - 1.97 - 2.20 - 2.56 - 3.15 - 3.54 - 3.94 inch

I.780-VD
Cylindrical handle
Visually Detectable technopolymer
METRIC

VD PA

Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011).
Threaded blind hole.
Dimensions: 3.15 inch

I.618-SOFT
Shaped handle
Soft-touch technopolymer

SOFT 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: 3.15 inch

I.680 SOFT
Cylindrical handles
Soft-touch technopolymer
METRIC

SOFT PP

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: 2.56 - 3.15 - 3.54 inch

I.780
Cylindrical handles
Technopolymer
METRIC

PA

Threaded blind hole.
Dimensions: 2.56 - 3.15 - 3.54 inch

I.780-SAN
Cylindrical handles
Technopolymer with antimicrobial protection
METRIC

SAN PA

Threaded blind hole.
Dimensions: 3.15 inch

I.780-MD
Cylindrical handle
Metal Detectable technopolymer
METRIC

MD PA

Produced from FDA compliant raw material (FDA CFR.21 and EU 10/2011).
Threaded blind hole.
Dimensions: 3.15 inch

5.3 Fixed handles

continues

I.126
Shaped handles
Duroplast
METRIC

PF

Threaded blind hole or threaded stud in zinc-plated steel.
Dimensions: 2.95 - 3.74 - 4.33 inch

IF.
Cylindrical handles
with protection, technopolymer
METRIC

PA

Brass boss with threaded blind hole or zinc-plated steel threaded stud.
Dimension: 4.41 inch

IFF
Cylindrical handles
with double protection, technopolymer
METRIC

PA

Brass boss with threaded blind hole or zinc-plated steel threaded stud.
Dimension: 4.41 inch

I.167 p
Tapered handles
with protection, Duroplast
METRIC

PF

Threaded stud in zinc-plated steel.
Dimension: 4.06 inch

I.280
Cylindrical handles
Duroplast
INCH
METRIC

PF

Threaded blind hole; zinc-plated steel threaded stud.
Dimensions: 1.10 - 1.57 - 1.97 - 2.56 - 3.15 - 3.54 - 4.02 - 4.53 inch

I.580 N
Cylindrical handles
Technopolymer

PP

Blind hole for pressure mounting via elastic coupling.
Dimensions: 1.57 - 1.97 - 2.56 - 3.15 - 3.54 inch

DIN 39
Shaped handles
Steel or AISI 316L stainless steel
METRIC

INOX

Threaded pin.
Dimensions: 0.63 - 0.79 - 0.98 - 1.26 - 1.42 inch

5.4 Revolving handles

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EBK+x
Spherical revolving handle
Technopolymer
METRIC

ERGOSTYLE® PP

Zinc-plated steel pin, hexagon socket at threaded end.
Diameter: 1.97 inch

EBS+x
Spherical revolving handle
Technopolymer
METRIC

ERGOSTYLE® PP

Zinc-plated steel pin, hexagon socket at threaded end.
Diameters: 1.77 - 1.89 inch

DIN Ganter Norm

5.4 Revolving handles

continues

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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
METRIC
SOFT ERGOSTYLE® PP

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: 1.77 - 1.89 inch

IEL+x SOFT
Mushroom revolving handles
Soft-touch technopolymer
METRIC
SOFT PP

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 anodised aluminium.
Dimensions: 1.85 - 2.56 inch

I.229+x
Revolving handle
Duroplast
METRIC
PF

Zinc-plated steel threaded pin, two flat faces for fitting with 0.47 inch spanner.
Dimension: 2.36 inch

P.111+x
Revolving ball knobs
Duroplast
METRIC
PF

Zinc-plated steel threaded pin, two flat faces for fitting with 0.47 inch spanner.
Diameters: 1.46 - 1.85 inch

GN 598
Revolving handles
Steel
METRIC

Zinc-plated steel pin, hexagon socket at threaded end.
Dimensions: 2.09 - 2.68 - 3.27 - 3.66 - 4.13 inch

GN 798
Revolving handles
Aluminum
METRIC

Zinc-plated steel pin, hexagon socket at threaded end.
Dimensions: 1.65 - 2.20 - 2.36 - 2.91 - 3.31 inch

GN 798.1
Revolving handles
Stainless steel
METRIC
INOX

AISI 303 stainless steel pin, hexagonal socket at threaded end.
Dimensions: 2.20 - 2.36 - 2.91 inch

GN 798.4
Revolving handles
Mounting on the operator's side, stainless steel
INOX METRIC

AISI 303 stainless steel pin.
Dimensions: 2.20 - 2.36 - 2.91 inch

I.281
Cylindrical revolving handles
Duroplast
INCH METRIC
INOX PF

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.
Dimensions: 1.57 - 1.97 - 2.56 - 3.15 - 3.54 - 3.94 inch

I.621+x
Revolving handles
Technopolymer
METRIC
INOX PA

Zinc-plated steel or AISI 303 stainless steel pin, hexagon socket at threaded end.
Dimensions: 1.38 - 1.77 - 2.36 - 2.56 - 2.87 - 3.15 - 3.54 - 3.98 inch

5.4 Revolving handles

continues

I.301+x
Cylindrical revolving handles
Duroplast and technopolymer

INOX STAINLESS STEEL · PF · METRIC

Zinc-plated steel or AISI 303 stainless steel pin, hexagon socket at threaded end.
Dimensions: 1.10 - 1.57 - 1.97 - 2.56 - 3.15 - 3.54 - 4.02 - 4.57 inch

I.481+x
Cylindrical revolving handles
Duroplast

METRIC

PF

Black-oxide steel shoulder screw, cylindrical-head with hexagon socket.
Dimensions: 1.57 - 1.97 - 2.56 - 3.15 inch

I.601+x
Cylindrical revolving handles
Technopolymer

METRIC

INOX STAINLESS STEEL · PP

Zinc-plated steel or AISI 303 stainless steel pin, hexagon socket at threaded end.
Dimensions: 1.57 - 1.97 - 2.56 - 3.15 - 3.54 inch

I.780+x
Cylindrical revolving handles
Technopolymer

METRIC

INOX STAINLESS STEEL · PA

Zinc-plated steel or AISI 303 stainless steel pin, hexagon socket at threaded end.
Dimensions: 1.57 - 1.97 - 2.17 - 2.56 - 3.15 - 3.54 - 3.94 inch

I.631+x
Revolving handle
Technopolymer

METRIC

PP

Zinc-plated steel pin, hexagon socket at threaded end.
Dimensions: 2.56 inch

I.741+x
Revolving handles
Technopolymer

METRIC

PA

Zinc-plated steel pin, hexagon socket at threaded end.
Dimensions: 0.79 - 0.91 inch

I.644-SST-SAN
Tapered handles
Technopolymer with antimicrobial protection

METRIC

INOX STAINLESS STEEL · SAN · PA

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: 3.54 inch

I.701+x
Revolving handles
Technopolymer

METRIC

PA

Zinc-plated steel pin, hexagon socket at threaded end.
Dimensions: 0.79 - 0.91 inch

I.731+x
Revolving handles
Technopolymer

METRIC

PA

Zinc-plated steel pin, hexagon socket at threaded end.
Dimensions: 0.79 - 0.91 inch

DIN 98
Shaped revolving handles
Steel

METRIC

Zinc-plated steel pin, hexagon socket at threaded end.
Dimensions: 0.63 - 0.79 - 0.98 - 1.26 - 1.42 inch

5.4 Revolving handles
continues

I.135
Tapered flanged handles
Duroplast

PF

Smooth pass-through hole with technopolymer guide bosses fixed at the ends.
Dimensions: 4.72 inch

IGF
Cylindrical revolving handles
with double protection, technopolymer, resistant to high temperatures

PA

Smooth pass-through hole for shafts.
Dimensions: 5.00 inch

SI.134
Revolving handles
Duroplast

PF

Smooth pass-through hole with technopolymer guide bosses fixed at the ends.
Dimensions: 4.13 inch

5.5 Fold-away handles

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

Type of assembly
- Blind hole (8)

IR.302
Fold-away handles
Duroplast

INOX PF

Double-guide pin in black-oxide steel or AISI 303 stainless steel, base support with guide stud in sintered steel or AISI 303 sintered stainless steel.
Dimensions: 2.20 - 2.56 - 3.15 - 3.54 inch

IR.407
Fold-away handles
Duroplast

INOX PF

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: 2.56 - 3.15 - 3.54 inch

IR.612
Fold-away handles
Technopolymer

INOX 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.
Dimensions: 2.20 - 2.56 - 3.15 - 3.54 inch

IR.780
Fold-away handles
Technopolymer

INOX PA

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: 2.20 - 2.56 - 3.15 - 3.54 inch

IR.620
Fold-away handles
Technopolymer

INOX PA

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: 1.77 - 2.36 - 2.56 - 2.87 - 3.15 - 3.54 inch

IRS.820
Two volume safety fold-away handles
Technopolymer

INOX PA

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: 2.56 - 3.15 - 3.54 inch

5.5 Fold-away handles

continues

IRS.802
Two volume safety fold-away handles
Technopolymer

INOX STAINLESS STEEL | 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: 2.56 - 3.15 - 3.54 inch

EFH.620
Fold-away handles
Technopolymer

INOX STAINLESS STEEL | ERGOSTYLE® | PA

Pin in black-oxide steel or AISI 303 stainless steel, flat base support in sintered steel or AISI 303 sintered stainless steel.
Dimnesions: 2.36 - 2.56 - 3.15 - 3.54 inch

5.6 Gear lever handles

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Material

- Steel

Type of assembly

- Threaded screw

BL.666
Gear lever handles
Zinc-plated steel and Duroplast

METRIC | PF

BL.666 BL.668 zinc-plated steel arm. Handles in Duroplast or technopolymer, black colour.
Dimensions: from 2.56 to 7.99 inch

BL.668
Gear lever handles
Zinc-plated steel and technopolymer

METRIC | PA

BL.666 BL.668 zinc-plated steel arm. Handles in Duroplast or technopolymer, black colour.
Dimensions: from 2.24 to 7.09 inch

BL.366
Gear lever handles
Chrome-plated steel and Duroplast

METRIC | PF

BL.366 BL.368 matte chrome-plated steel arm. Handles in Duroplast, black colour.
Dimensions: from 2.56 to 7.99 inch

BL.368
Gear lever handles
Chrome-plated steel and Duroplast

METRIC | PF

BL.366 BL.368 matte chrome-plated steel arm. Handles in Duroplast, black colour.
Dimensions: from 2.24 to 7.09 inch

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

6.1 Control knobs

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Material

- Technopolymer (5)
- Duroplast (9)
- Steel (4)
- Stainless steel (6)
- Aluminium (13)

Type of assembly

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

IZP.
Control knurled knobs
Technopolymer
METRIC

PA

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: 1.06 - 1.26 - 1.38 - 1.57 inch

GN 727
Control knurled knobs
with adjustable spindle, aluminium
METRIC

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 chrome-plated base and 50 marks on the knob.
Diameters: 1.06 - 1.34 inch

GN 827
Adjusting screws
for GN 828 bearing blocks, stainless steel
METRIC

INOX 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: 0.79 - 1.18 - 1.38 - 1.57 - 1.77 - 1.97 - 2.36 inch

GN 827.1
Mounting Nuts
for adjusting screws GN 827, stainless steel
METRIC

INOX 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: 0.63 - 0.79 - 0.94 inch

GN 828
Bearing blocks
for adjusting screws GN 827, aluminium
METRIC

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: 1.38 - 1.57 - 1.77 inch

GN 957
Control knurled knobs
for DD digital position indicators, aluminium
METRIC

Knurled aluminium profile, black colour.
Assembly by means of a supplied stainless steel transversal grub screw with hexagon socket.
Diameters: 0.87 - 1.06 - 1.65 inch

IZN.381
Control knurled knobs
Technopolymer
INCH METRIC

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: 1.26 - 1.65 - 1.89 - 2.05 - 2.48 inch

MI.304
Control knurled knobs
With pointer, Duroplast
METRIC

PF

White line index.
H10 plain blind hole. Assembly by means of a transversal grub screw.
Diameters: 1.38 - 1.57 - 1.77 inch

6.1 Control knobs

continues

MI.304-CR
Control knurled knobs
With pointer, Duroplast chrome-plated
METRIC

CHROMIUM 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: 1.38 - 1.57 - 1.77 inch

MI.404
Control knurled knobs
With pointer, Duroplast
METRIC

PF

White line index.
H10 plain blind hole. Assembly by means of a transversal grub screw.
Diameters: 1.38 - 1.57 - 1.77 inch

MI.404-CR
Control knurled knobs
With pointer, Duroplast chrome-plated
METRIC

CHROMIUM 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: 1.38 - 1.57 - 1.77 inch

MBR
Diamond-cut knobs
with collar or flange, technopolymer
INCH METRIC

PP

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: 1.18 - 1.57 - 1.97 inch

F.N - F.K - F.GS
Flanges for graduations
for IZN.381 control knobs

Neutral flange, with triangular index or graduation (marks and numbers) in black colour.
Mounting via three self-tapping screws.
Diameters: 1.26 - 1.42 - 1.57 - 1.77 - 1.97 - 2.20 - 2.48 inch

GN 723.3
Base flanges
for GN 723.4 control knobs, aluminium
METRIC

Laser-engraved triangular index.
H8 reamed hole; flange with or without NBR synthetic rubber friction ring.
Diameters: 1.34 - 41 - 1.97 - 2.36 inch

GN 723.4
Control knurled knobs
Aluminum
METRIC

Aluminium with neutral flange base, with triangular index or precision graduation, laser-engraved.
H8 reamed hole. Secured via a transversal grub screw.
Diameters: 1.06 - 1.34 - 1.65 inch

GN 726
Control knurled knobs
Aluminum
METRIC

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: 0.87 - 1.06 - 1.34 - 1.65 inch

GN 436
Slotted control knobs
with position indicator, stainless steel
METRIC

INOX 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: 0.94 - 1.10 inch

GN 436.1
Slotted control knobs
with graduations, stainless steel
METRIC

INOX STAINLESS STEEL

AISI 304 stainless steel, with white perimeter triangular index or with black precision graduation.
H8 reamed hole.
Secured via a transversal grub screw.
Diameters: 0.94 - 1.10 inch

6.1 Control knobs

continues

GN 726.1
Control knurled knobs
with graduated flange, aluminium
METRIC

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: 0.87 - 1.06 - 1.34 - 1.65 inch

GN 726.2
Control knurled knobs
with graduated flange, aluminium
METRIC

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: 0.87 - 1.06 - 1.34 - 1.65 inch

GN 164
Scale rings
Steel
METRIC

With or without NBR synthetic rubber friction ring.
Diameters: 1.18 - 1.57 - 1.97 - 2.36 inch

GN 264
Graduated rings
for control mechanisms combined with GN 268 and GN 374, steel
METRIC

H7 reamed hole.
Natural or matte chrome-plated finish; with scale d1/100-RA-0-10-20...90/10, 3.94 marks.
Diameters: 1.18 - 1.57 - 2.36 - 3.15 inch

GN 268
Base flanges
for control mechanisms combined with GN 264 and GN 374, steel
METRIC

H7 reamed hole, keyway according to DIN 6885/1 tolerance P9.
Diameters: 0.94 - 1.26 - 1.97 - 68 inch

GN 374
Flat springs
or control mechanisms GN 264 and GN 268

Steel

GN 736
Control handwheels
with revolving handle, aluminium
METRIC

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: 2.05 - 2.44 inch

GN 736.1
Control handwheels
with revolving handle, aluminium
METRIC

Knurled aluminium profile, black colour.
H8 reamed hole with and without keyway.
Without handle or with revolving handle in technopolymer,
Diameters: 2.05 - 2.44 inch

VL.140+I
Control handwheels
with revolving handle, Duroplast
METRIC

PF

Black-oxide steel hub, with pre-drilled blind hole.
Revolving handle I.281+x
Diameters: 3.15 - 3.94 - 5.12 inch

MBT+I
Diamond-cut knobs
with revolving handle, technopolymer
METRIC

PP

Cap in standard colours.
Brass boss, plain blind hole, assembly by means of a transversal grub screw.
Diameters: 1.57 - 1.97 - 2.36 - 2.76 - 3.35 - 3.94 inch

6.1 Control knobs

continues

EGK.SOFT
Grip knobs
arranged for clicking operation, technopolymer
METRIC
INOX STAINLESS STEEL · SOFT · PA · ERGOSTYLE®

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: 1.97 - 2.48 inch

GN 729
Control knobs
Aluminum
METRIC

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: 1.34 - 1.65 inch

VC.192+IN
Lobe knobs
with pointer, Duroplast
METRIC
PF

Index in technopolymer.
Brass or black-oxide steel boss, plain blind hole.
Secured via transversal grub screws, without head, with hexagon socket.
Diameters: 1.57 - 1.97 - 2.36 - 2.76 - 3.35 inch

VC.192+F
Lobe knobs
with flange, Duroplast
METRIC
PF

Flange with white line index in technopolymer.
Brass or black-oxide steel boss, plain blind hole.
Secured via transversal grub screws.
Diameters: 1.26 - 1.57 - 1.97 - 2.36 - 2.76 inch

VH.153+IN
Lobe knobs
with pointer, Duroplast
METRIC
PF

Index in technopolymer.
Brass or black-oxide steel boss, plain blind hole.
Secured via transversal grub screws.
Diameters: 0.98 - 1.38 - 1.73 - 2.13 - 2.44 inch

MI.204
Indicator knobs
Duroplast
METRIC
PF

White line index.
Brass boss, plain blind hole.
Secured via a transversal grub screw.
Diameters: 1.77 - 2.17 inch

6.2 Control levers

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Material
- Technopolymer (3)
- Steel (2)
- Stainless steel (1)

Type of assembly
- Plain hole (4)
- Plain hole and keyway (1)

GN 750
Control levers
Steel
METRIC

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: 3.31 - 4.17 - 5.12 inch

LBR.
Control levers
arranged for clicking operation, technopolymer
METRIC
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: 4.17 - 4.25 - 5.00 - 6.69 inch

GN 215
Indexing levers
Steel
METRIC

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: 2.13 - 2.36 inch

ELC.
Control levers
arranged for clicking operation, technopolymer
METRIC
INOX STAINLESS STEEL · ERGOSTYLE® · PA

Technopolymer boss cap in standard colours.
Black-oxide or stainless steel boss, H7 reamed hole.
Dimensions: 2.64 - 3.35 - 4.33 - 5.51 inch

6.2 Control levers
continues

ELCR.
Control lever
arranged for clicking operation, technopolymer
METRIC

ERGOSTYLE® PA

Technopolymer, grey-black colour, matte finish. Technopolymer boss cap in standard colours. Black-oxide steel boss, H7 reamed hole. Dimensions: 4.65 inch

6.3 Adjustment elements with lock

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Material
- Aluminum
- Stainless steel
- Steel

Type of assembly
- Plain hole and keyway

GN 700
Locking and continuous control indexing mechanisms
Aluminium and steel
METRIC

Control knob and nut in knurled aluminium. Base in black-oxide steel. Steel boss, H7 reamed 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: 2.60 inch

GN 200
Indexing mechanisms with stop and positioning device
Steel or stainless steel
INOX METRIC

With or without lever arm. Boss, H7 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: 1.73 - 2.05 inch

7 Position indicators

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

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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.

GA11 - GA12
Position indicators
gravity drive, technopolymer

PA

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.

MBT-GA
Knobs with integral position indicator
gravity drive, technopolymer

PA

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.

GW12
Digital-analogue position indicators
gravity drive, technopolymer

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.

MBT-GW
Knobs with digital-analogue position indicator
gravity drive, technopolymer

PA

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

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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.

PA11 - PA12
Position indicators
positive drive, technopolymer

PA

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

PW12
Digital-analogue position indicators
positive drive, technopolymer

PA

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)

DD50
Mechanical position indicators
direct drive, 3-digit counter, technopolymer

INOX STAINLESS STEEL | PA | INCH | METRIC

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

DD51
Mechanical position indicators
direct drive, 4-digit counter, technopolymer

INOX STAINLESS STEEL | PA | INCH | METRIC

Technopolymer case and base support; transparent technopolymer window. Black-oxide steel or AISI 303 stainless steel boss with 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

INOX STAINLESS STEEL | PA | INCH | METRIC

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

7.4 Electronic digital position indicator

elesa.com

Material
- Technopolymer (1)
- Technopolymer - Stainless steel (4)

DD51-E
Electronic digital position indicator
direct drive, 5-digit display, technopolymer

INOX STAINLESS STEEL | PA | INCH | METRIC

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 reamed hole.

DD51-E-RF
Electronic digital position indicator
Data transmission by radio frequency

INCH | METRIC

INOX STAINLESS STEEL | PA

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 reamed hole.

DD52R-E
Electronic digital position indicator
direct drive, 6-digit display, technopolymer

INOX STAINLESS STEEL | PA | INCH | METRIC

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 reamed hole.

DD52R-E-RF
Electronic digital position indicator
Data transmission by radio frequency

INOX STAINLESS STEEL | PA | INCH | METRIC

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

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.

FC-UC
UC-RF antenna extensions
with SMA-RP connector

Shielded cable with PVC sheath, bend radius in fixed position ≥1.97inch.
Male and female SMA-RP connectors.

7.5 Magnetic measuring systems

elesa.com

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 frequency

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 inch, bend radius in mobile position ≥ 1.34 inch.
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 increase.

MDX-51
Knob for position indicators
For DD51 and DD51-E 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 increase.

7.6 Position indicator accessories

continues

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Material

- Technopolymer (6)
- 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

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 increase.

RB50
Hole reduction sleeve
for DD50 position indicators, steel or stainless steel

INOX STAINLESS STEEL · INCH · METRIC

Black-oxide steel or AISI 304 stainless steel.

RB51
Reduction boss
for DD51 position indicators, steel or stainless steel

INOX STAINLESS STEEL · INCH · METRIC

Black-oxide steel or AISI 304 stainless steel.

RB52
Hole reduction sleeve
for DD52 position indicators, steel or stainless steel

INOX STAINLESS STEEL · INCH · METRIC

Black-oxide steel or AISI 304 stainless steel.

BSA-T50
Bases for spindle locking
for DD50 position indicators, SUPER-technopolymer

SUPER TECHNO POLYMER · METRIC

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.

BS51
Spacer plate
for DD51 position indicators, technopolymer

METRIC

Spacer plate supplied pre-drilled for Ø 0.09 self-locking screws.

BSA-N51
Bases for spindle locking
for DD51 position indicators, zinc alloy

INCH · METRIC

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

METRIC

Spacer plate supplied pre-drilled for Ø 0.09 self-locking screws.

BSA-N52
Bases for spindle locking
for DD52R position indicators, zinc alloy

INCH · METRIC

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

INCH · METRIC

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

INCH METRIC

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
Knurled knobs
for position indicators, technopolymer

METRIC

PA

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: 2.36 - 3.15 inch

MBT-XX
Diamond-cut knobs
for position indicators, technopolymer

INCH METRIC

PA

For indicators with gravitational or fixed reaction movement.
Black-oxide steel boss, reamed hole, secured to the shaft using grub screws without head, hexagon socket, cup end.
Diameters: 2.36 - 3.15 inch

VHT-XX
Handwheels with lobes
for position indicators, technopolymer

INOX STAINLESS STEEL PA INCH METRIC

For indicators with gravitational or fixed reaction movement.
Black-oxide steel or AISI 303 stainless steel boss, reamed hole, secured to the shaft using grub screws without head, hexagon socket, cup end.
Diameters: 3.35 - 4.33 inch

VC.792-XX
Handwheels with lobes
for position indicators, technopolymer

PA INCH METRIC

For indicators with gravitational or fixed reaction movement.
Black-oxide steel boss, reamed hole, secured to the shaft using grub screws without head, hexagon socket, cup end.
Diameters: 2.76 - 3.94 inch

VDSC-XX
Handwheels
for position indicators, technopolymer

METRIC

INOX STAINLESS STEEL PA

For indicators with gravitational reaction movement.
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: 4.92 - 6.30 - 7.87 inch

EWW-XX
Handwheel
for position indicators, technopolymer

METRIC

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: 9.45 inch

VDN-XX
Handwheels
for position indicators, Duroplast

PF

For indicators with gravitational reaction movement.
Black-oxide steel hub, not drilled.
Diameters: 9.84 - 11.81 - 13.78 inch

VDC-XX
Handwheels
for position indicators, Duroplast

METRIC

PF

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: 4.92 - 5.51 - 6.30 - 7.09 - 7.87 inch

7.7 Handwheels for position indicators

continues

VAD-XX
Handwheels for position indicators
for position indicators, aluminium

METRIC

For indicators with gravitational or fixed reaction movement.
Version with or without revolving handle.
H7 reamed pass-through hole.
Diameters: 3.15 - 3.94 - 4.72 - 6.30 - 7.87 inch

VRTP-XX
Handwheels
for position indicators, technopolymer

METRIC

PP

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: 6.30 - 7.87 - 9.84 inch

VR-XX
Handwheels
for position indicators, Duroplast

PF

For indicators with gravitational reaction movement.
Black-oxide steel hub, not drilled.
With or without revolving handle.
Diameters: 6.30 - 7.87 - 9.84 - 11.81 - 14.76 inch

SC-XX
Housing
for position indicator, technopolymer

PA

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: 2.99 - 4.80 inch

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: 1.97- 2.72 inch

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

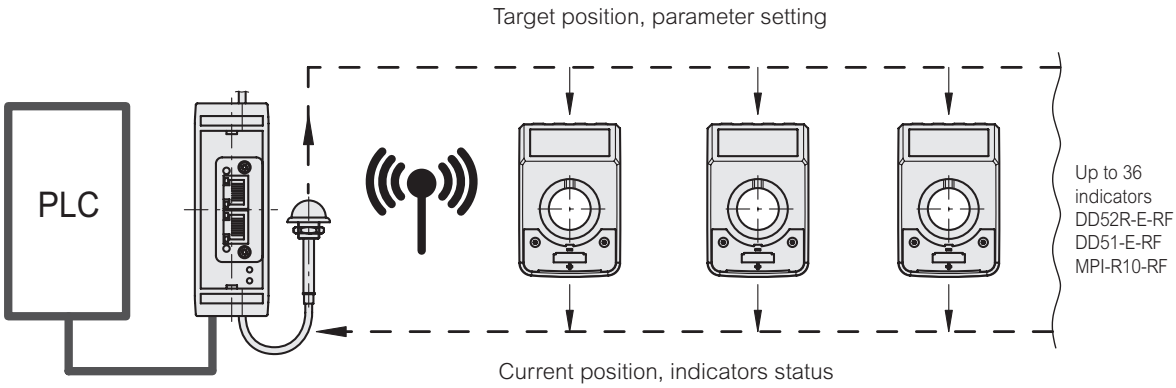
Each indicator is identified by a **unique number assigned by Elesa**. Once the connection with a control unit is established, communication will take place exclusively with that control unit, making it impossible to exchange data with other units present in the same work area. Each control unit can 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.

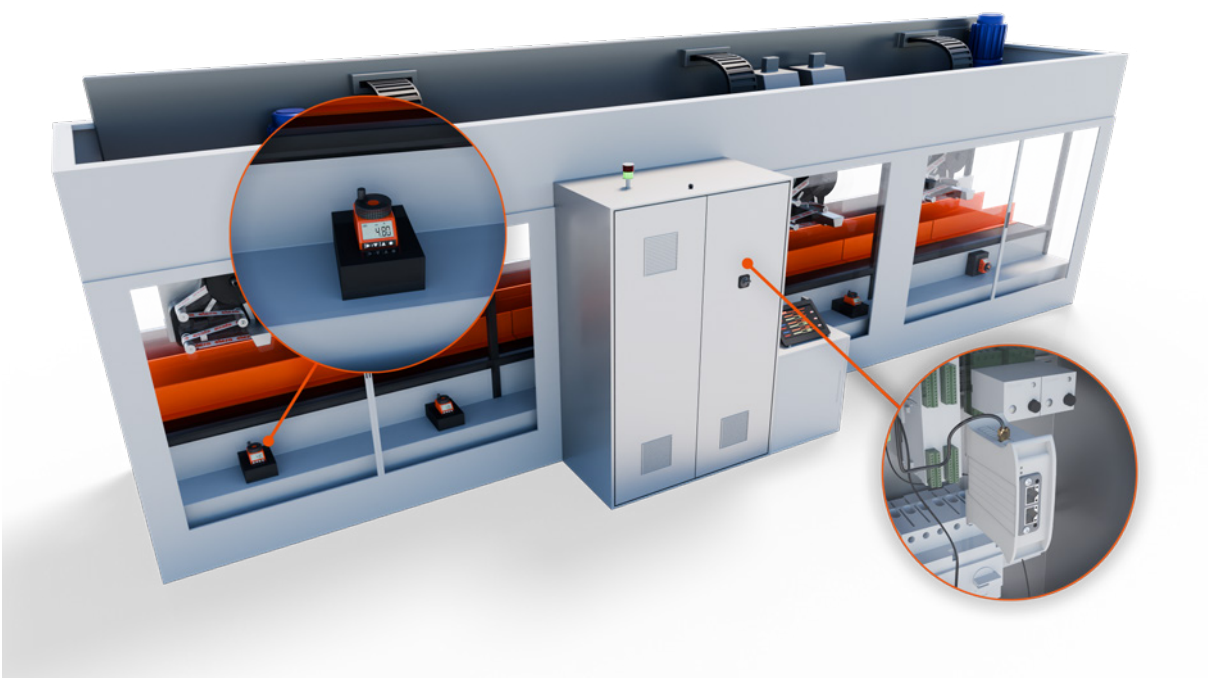


Flashing display

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.



8 Positioning elements

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.

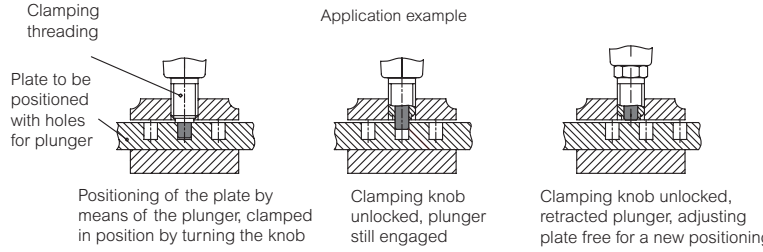
Indexing plungers

Standard components for manual or automated **quick locking** of **moving parts**.

- **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.
- Stainless steel **spring**.

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.



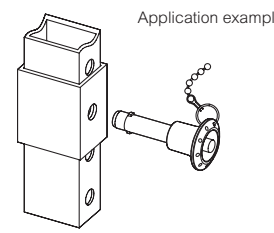
Positioning of the plate by means of the plunger, clamped in position by turning the knob

Clamping knob unlocked, plunger still engaged

Clamping knob unlocked, retracted plunger, adjusting plate free for a new positioning

Locking pins

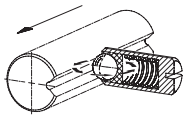
Standard components with **balls and detents** for **quick fastenings** between **components or parts being machined**, particularly when they must be **removed** and **frequently repositioned**. By pressing the button, the balls or detents are released allowing the locking pin to be freely removed and repositioned.



Spring plungers

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.

Application example



8.1 Indexing plungers

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Material

- Technopolymer (3)
- Steel (36)
- Stainless steel (32)
- Die-cast zinc alloy (13)

PMT.100
Indexing plungers
SUPER-technopolymer body
INCH METRIC
INOX SUPER TECHNO POLYMER PA

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: 0.20 - 0.24 - 0.31 - 0.39 inch

PMT.101
Indexing plungers
Rest in retracted position, SUPER-technopolymer body
INOX SUPER TECHNO POLYMER PA INCH METRIC

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: 0.20 - 0.24 - 0.31 - 0.39 inch

PMT.100-SST-VD - PMT.101-SST-VD
Indexing plungers
Visually Detectable SUPER-technopolymer body
METRIC
INOX SUPER TECHNO POLYMER VD PA

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: 0.20 - 0.24 - 0.31 - 0.39 inch

PMT.110
Indexing plungers
SUPER-technopolymer body
METRIC
INOX SUPER TECHNO POLYMER PA

Black-oxide hardened steel or AISI 303 stainless steel plunger. Technopolymer knob. 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: 0.31 - 0.39 inch

GN 617
Indexing plungers
Black-oxide steel
INCH METRIC

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: 0.20 - 0.24 - 0.31 - 0.39 inch

GN 617-NI
Indexing plungers
Stainless steel
METRIC
INOX

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.
Plunger Ø: 0.20 - 0.24 - 0.31 - 0.39 inch

GN 617.1
Indexing plungers
rest in retracted position, steel
METRIC

Black-oxide steel plunger with hardened end.
Black-oxide steel threaded body.
Technopolymer knob.
Standard executions: with or without locking nut.
Plunger Ø: 0.20 - 0.24 - 0.31 - 0.39 inch

GN 617.1-NI
Indexing plungers
rest in retracted position, stainless steel
METRIC
INOX

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 nut.
Plunger Ø: 0.20 - 0.24 - 0.31 - 0.39 inch

8.1 Indexing plungers
continues

GN 817
Indexing plungers
Steel
METRIC

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: 0.16 - 0.20 - 0.24 - 0.31 - 0.39 - 0.47 - 0.63 inch

GN 817-NI
Indexing plungers
Stainless steel
METRIC
INOX 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: 0.16 - 0.20 - 0.24 - 0.31 - 0.39 - 0.47 - 0.63 inch

GN 817.6
Stainless Steel Indexing Plungers
with sensor for position monitoring
INOX STAINLESS STEEL METRIC

Nickle-plated AISI 303 stainless steel plunger. AISI 303 stainless steel threaded body. With or without stop position. Technopolymer knob.
Plunger Ø: 0.16 - 0.20 - 0.24 - 0.31 - 0.39 - 0.47 - 0.63 inch

GN 817.7
Indexing plungers
Pneumatically Operated, stainless steel
METRIC
INOX STAINLESS STEEL HD

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: 0.24 - 0.31 - 0.39 - 0.47 inch

GN 8170
Stainless Steel Indexing Plungers
Hygienic Design, Knob side (front hygiene) / Knob and plunger side (full hygiene)
METRIC

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: 0.24 - 0.31 inch

GN 817.1
Indexing plungers with flange
Zinc alloy and stainless steel
INOX STAINLESS STEEL METRIC

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.
Plunger Ø: 0.24 - 0.31 - 0.39 inch

GN 817.9
Indexing plungers with flange
Zinc alloy and stainless steel
INOX STAINLESS STEEL METRIC

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 Ø: 0.28 - 0.31 - 0.39 inch

GN 817.2
Indexing plungers
with or without rest in retracted position, steel
METRIC

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: 0.16 - 0.20 - 0.24 - 0.31 - 0.39 - 0.47 inch

GN 817.2-NI
Indexing plungers
with or without rest in retracted position, stainless steel
INOX STAINLESS STEEL METRIC

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: 0.16 - 0.20 - 0.24 - 0.31 - 0.39 - 0.47 inch

GN 817.8
Indexing plungers
with or without rest in retracted position, steel or stainless steel
INOX STAINLESS STEEL METRIC

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: 0.28 - 0.31 - 0.39 - 0.47 inch

8.1 Indexing plungers

continues

GN 818
Indexing plungers
with or without rest in retracted position, AISI 316 stainless steel

INOX STAINLESS STEEL METRIC

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: 0.16 - 0.20 - 0.24 - 0.31 - 0.39 - 0.47 inch

GN 817.3
Indexing plungers with flange
With or without rest in retracted position, steel

METRIC

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: 0.24 - 0.31 - 0.39 inch

GN 817.5
Indexing plungers with flange
With or without rest in retracted position, steel

METRIC

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: 0.24 - 0.31 - 0.39 inch

GN 722.5
Spring indexing plungers with ring
Steel

METRIC

INOX STAINLESS STEEL

Zinc-plated stainless steel plunger and guide flange with two holes for fitting
Plunger Ø: 0.31 - 0.39 - 0.47 - 0.55 - 0.63 - 0.79 inch

GN 817.4
Indexing plungers
with or without rest in retracted position, steel

METRIC

Black-oxide steel plunger with hardened end.
Black-oxide steel threaded body.
Technopolymer handle.
With or without locking nut.
Plunger Ø: 0.24 - 0.31 - 0.39 - 0.47 inch

GN 817.4-NI
Indexing plungers
with or without rest in retracted position, stainless steel

INOX STAINLESS STEEL METRIC

Nickle-plated AISI 303 stainless steel plunger.
AISI 303 stainless steel threaded body.
Technopolymer handle.
With or without locking nut.
Plunger Ø: 0.24 - 0.31 - 0.39 - 0.47 inch

GN 613
Indexing plungers
Steel

METRIC

Black-oxide steel plunger with hardened end.
Black-oxide steel threaded body.
Technopolymer knob.
With or without locking nut.
Plunger Ø: 0.20 - 0.24 - 0.31 - 0.39 inch

GN 613-NI
Indexing plungers
Stainless steel

METRIC

INOX 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: 0.20 - 0.24 - 0.31 - 0.39 inch

GN 313
Indexing plungers
Steel

METRIC

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: 0.20 - 0.24 - 0.31 - 0.39 inch

GN 313-NI
Indexing plungers
Stainless steel

METRIC

INOX 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: 0.20 - 0.24 - 0.31 - 0.39 inch

8.1 Indexing plungers

continues

GN 416
Lever indexing plungers
with or without rest in retracted position, steel

PROFILE COMPATIBLE · METRIC

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: 0.24 - 0.31 - 0.39 - 0.47 inch

GN 7017
Lever indexing plungers
With or without rest in retracted position, steel or stainless steel

INOX · METRIC

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: 0.16 - 0.20 - 0.24 - 0.31 - 0.39 inch

GN 413
Indexing plungers
with or without rest in retracted position, steel or stainless steel

INOX · METRIC

AISI 303 stainless steel plunger.
Zinc-plated steel or AISI 303 stainless steel threaded body.
With or without locking nut.
Plunger Ø: 0.20 - 0.24 - 0.31 - 0.39 inch

GN 414
Indexing plungers
with safety device, protruding plunger, steel

METRIC

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: 0.24 - 0.31 - 0.39 inch

GN 414-NI
Indexing plungers
with safety device, protruding plunger, stainless steel

INOX · METRIC

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: 0.24 - 0.31 - 0.39 inch

GN 414.1
Indexing plungers
with safety device, retracted plunger, steel

METRIC

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: 0.24 - 0.31 - 0.39 inch

GN 414.1-NI
Indexing plungers
with safety device, retracted plunger, stainless steel

INOX · METRIC

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: 0.24 - 0.31 - 0.39 inch

GN 514
Indexing plungers with locking device
with locking device, steel

METRIC

Nitrided steel plunger and threaded body.
Nitrided steel threaded body.
Technopolymer control button (PUSH-PUSH locking device).
With or without locking nut.
Plunger Ø: 0.24 - 0.31 inch

GN 514-A4
Indexing plungers
with locking device, stainless steel

INOX

AISI 316 stainless steel plunger and threaded body.
Push button (PUSH-PUSH locking device) in technopolymer. With or without locking nut.
Plunger Ø: 0.24 - 0.31 inch

GN 618
Indexing plungers
Steel

METRIC

Black-oxide steel plunger with hardened end.
Smooth body in black-oxide steel for welding.
Technopolymer knob.
With or without knob.
Plunger Ø: 0.20 - 0.24 - 0.31 inch

8.1 Indexing plungers

continues

GN 822
Mini indexing plungers
With or without rest in retracted position, steel or stainless steel

INOX STAINLESS STEEL · METRIC

AISI 303 stainless steel plunger.
Zinc-plated steel or AISI 303 stainless steel threaded body.
Indicated for mounting on thin sheet metal.
Plunger Ø: 0.16 - 5- 0.24 - 0.28 inch

GN 822.1
Mini indexing plungers
With or without rest in retracted position, steel or stainless steel

INOX STAINLESS STEEL · METRIC

AISI 303 stainless steel plunger.
Zinc-plated steel or AISI 303 stainless steel threaded body.
Indicated for mounting on thin sheet metal.
Plunger Ø: 0.16 - 5- 0.24 - 0.28 inch

GN 822.6
Mini indexing plungers
with or without rest in retracted position, steel

METRIC

AISI 303 stainless steel plunger.
Zinc-plated steel threaded body.
Technopolymer knob.
Indicated for mounting on thin sheet metal.
Plunger Ø: 0.16 - 0.20 - 0.24 - 0.28 - 0.31 - 0.39 inch

GN 822.7
Mini indexing plungers
with or without rest in retracted position, stainless steel

INOX STAINLESS STEEL · METRIC

AISI 303 stainless steel plunger and threaded body.
AISI 303 stainless steel threaded body.
Indicated for mounting on thin sheet metal.
Plunger Ø: 0.16 - 0.20 - 0.24 - 0.28 - 0.31 - 0.39 inch

GN 822.8
Mini indexing plungers with flange
with or without rest in retracted position, steel

METRIC

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: 0.16 - 5- 0.24 - 0.31 - 0.39 inch

GN 822.9
Mini indexing plungers with flange
With or without rest in retracted position, stainless steel

INOX STAINLESS STEEL · METRIC

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: 0.16 - 5- 0.24 - 0.31 - 0.39 inch

GN 717
Indexing plungers
with or without rest in retracted position, steel

INCH · METRIC

Nickle-plated AISI 316 stainless steel plunger.
Technopolymer knob or AISI 301 stainless steel ring.
With or without locking nut.
Plunger Ø: 0.12 - 0.16 - 0.20 - 0.24 - 0.31 - 0.39 inch

GN 717-NI
Indexing plungers
with or without rest in retracted position, stainless steel

INOX STAINLESS STEEL · METRIC

AISI 303 stainless steel plunger and threaded body. Technopolymer knob or AISI 301 stainless steel ring.
With or without locking nut.
Plunger Ø: 0.12 - 0.16 - 0.20 - 0.24 - 0.31 - 0.39 inch

GN 417
Indexing plungers
with or without rest in retracted position, steel

METRIC

PROFILE COMPATIBLE

Die-cast zinc alloy base flange with slotted holes for fitting.
AISI 303 stainless steel plunger.
Technopolymer knob or AISI 301 stainless steel ring.
Plunger Ø: 0.16 - 5- 0.24 - 0.31 - 0.39 inch

GN 417-NI
Indexing plungers
with or without rest in retracted position, stainless steel

INOX STAINLESS STEEL · PROFILE COMPATIBLE · METRIC

AISI CF-8 stainless steel base flange with slotted holes for fitting.
AISI 303 stainless steel plunger.
Technopolymer knob or AISI 301 stainless steel ring.
Plunger Ø: 0.16 - 5- 0.24 - 0.31 - 0.39 inch

8.1 Indexing plungers

continues

GN 722.6
Spring indexing plungers with ring
Steel
METRIC
INOX STAINLESS STEEL · PROFILE COMPATIBLE

Zinc-plated steel base flange with slotted holes for fitting, coated in epoxy resin.
Zinc-plated steel plunger.
Zinc-plated steel ring.
Plunger Ø: 0.31 - 0.39 - 0.47 - 0.55 - 0.63 - 0.79 inch

GN 607
Indexing plungers
Steel
METRIC

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 Ø: 0.24 - 0.31 inch

GN 607-NI
Indexing plungers
Stainless steel
METRIC
INOX 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: 0.24 - 0.31 inch

GN 607.1
Indexing plungers
rest in retracted position, steel
METRIC

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 Ø: 0.24 - 0.31 inch

GN 607.1-NI
Indexing plungers
rest in retracted position, stainless steel
METRIC
INOX 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: 0.24 - 0.31 inch

GN 607.2
Indexing plungers
Steel
METRIC

Nickle-plated AISI 303 stainless steel plunger.
Threaded body and adjusting bushing in zinc-plated steel.
Technopolymer knob.
Plunger Ø: 0.24 - 0.31 inch

GN 607.3
Indexing plungers
rest in retracted position, steel
METRIC

Nickle-plated AISI 303 stainless steel plunger.
Threaded body and adjusting bushing in zinc-plated steel.
Technopolymer knob.
Plunger Ø: 0.24 - 0.31 inch

GN 607.4
Indexing plungers
Fixing by means of welding, steel
METRIC

Plunger in hardened steel.
Black-oxide steel flanged body.
Technopolymer knob.
Plunger Ø: 0.24 - 0.31 inch

GN 607.5
Indexing plungers
Rest position, fixing by means of welding, steel
METRIC

Plunger in hardened steel.
Black-oxide steel flanged body.
Technopolymer knob.
Plunger Ø: 0.24 - 0.31 inch

GN 816
Indexing plungers with safety rest position
with safety device, steel
METRIC

AISI 303 stainless steel plunger.
Zinc-plated steel threaded body.
Technopolymer knob.
With or without locking nut and with or without key.
Plunger Ø: 0.24 - 0.31 - 0.39 inch

8.1 Indexing plungers
continues

GN 816.1
Indexing plungers
with safety device, steel
METRIC

AISI 303 stainless steel plunger.
Zinc-plated steel threaded body.
Technopolymer knob.
With or without locking nut and with or without key.
Plunger Ø: 0.24 - 0.31 inch

GN 7336.7
Indexing plungers with clamping knob
with clamping knob, steel
METRIC

AISI 303 stainless steel plunger.
Zinc-plated steel threaded body.
Technopolymer knob.
For simultaneous positioning, clamping and secure holding of elements.
Plunger Ø: 0.24 - 0.31 inch

GN 7336.8
Indexing plungers with safety clamping knob
with safety clamping knob, steel
METRIC

AISI 303 stainless steel plunger.
Zinc-plated steel threaded body.
Technopolymer knob.
For simultaneous positioning, clamping and secure holding of elements.
Plunger Ø: 0.24 - 0.31 inch

GN 608
Indexing plungers with flange
Zinc alloy
METRIC

Flange base with holes for fixing.
Plunger in black-oxide steel.
Technopolymer knob.
Indicated for mounting on thin sheet metal.
Plunger Ø: 0.24 - 0.31 inch

GN 608.1
Indexing plungers with flange
rest in retracted position, zinc alloy
METRIC

Flange base with holes for fixing.
Plunger in black-oxide steel.
Technopolymer knob.
Indicated for mounting on thin sheet metal.
Plunger Ø: 0.24 - 0.31 inch

GN 608.5
Indexing plungers with flange
Zinc alloy and stainless steel
INOX STAINLESS STEEL METRIC

Flange base with holes for fixing.
AISI 303 stainless steel plunger.
Technopolymer knob.
Indicated for mounting on thin sheet metal.
Plunger Ø: 0.24 - 0.31 inch

GN 608.6
Indexing plungers with flange
Rest position, zinc alloy and stainless steel
INOX STAINLESS STEEL METRIC

Flange base with holes for fixing.
AISI 303 stainless steel plunger.
Technopolymer knob.
Indicated for mounting on thin sheet metal.
Plunger Ø: 0.24 - 0.31 inch

GN 412
Mini indexing plungers
Zinc alloy
METRIC

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: 0.20 - 0.24 - 0.31 - 0.39 inch

GN 612.1
Mounting flange
Steel
METRIC

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 412.1
Positioning flange
Zinc alloy
METRIC

PROFILE COMPATIBLE

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

GN 416.1
Positioning flange
for GN 416, zinc alloy
METRIC

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: 0.24 - 0.31 - 0.39 - 0.47 inch

GN 417.1
Positioning flange
Steel or stainless steel
METRIC
INOX 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: 0.16 - 0.20 - 0.24 - 0.31 - 0.39 inch

GN 412.2
Positioning boss
for indexing plungers, steel
METRIC

Hardened black-oxide steel.
GN 412.2 bosses are generally used to optimise the positioning of indexing plungers.
Threads: M12x1.5, M16x1.5.

GN 412.4
Striker boss
for stainless steel indexing plungers
METRIC
INOX STAINLESS STEEL

Hardened AISI 431 stainless steel.
They are a standard accessory to be used to create, when necessary, a matching part to the indexing plungers.
Threads: M12x1.5, M16x1.5.

GN 412.3
Positioning boss
for indexing plungers, steel
METRIC

Hardened black-oxide steel.
GN 412.3 bosses are generally used to optimise the positioning of indexing plungers.
Threads: M12x1.5, M16x1.5.

GN 412.5
Striker boss
for stainless steel indexing plungers
METRIC
INOX STAINLESS STEEL

Hardened AISI 431 stainless steel.
They are a standard accessory to be used to create, when necessary, a matching part to the indexing plungers.
Threads: 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
INOX STAINLESS STEEL
SUPER TECHNO POLYMER
PA
INCH
METRIC

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: 0.16 - 0.20 - 0.24 - 0.31 - 0.39 inch

GN 612
Lever indexing plungers
rest in retracted position, steel
METRIC

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: 0.16 - 0.20 - 0.24 - 0.31 - 0.39 - 0.47 inch

GN 612-NI
Lever indexing plungers
rest in retracted position, stainless steel
INOX STAINLESS STEEL
METRIC

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: 0.20 - 0.24 - 0.31 - 0.39 - 0.47 inch

GN 721 - GN 721.1
Lever indexing plungers
With or without rest in retracted position, steel
METRIC

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: 0.20 - 0.24 - 0.31 - 0.39 inch

8.2 Lever indexing plungers
continues

GN 721.5 - GN 721.6
Lever indexing plungers
With or without rest in retracted position, stainless steel

INOX STAINLESS STEEL · METRIC

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: 0.20 - 0.24 - 0.31 - 0.39 inch

GN 612.2
Lever indexing plungers
rest in retracted position, steel

PROFILE COMPATIBLE · METRIC

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: 0.24 - 0.31 - 0.39 - 0.47 inch

GN 612.3
Lever indexing plungers
rest in retracted position, steel or stainless steel

INOX STAINLESS STEEL · METRIC

Body in black-oxide steel for welding or AISI 304 stainless steel. Plunger in nitrided steel or AISI 303 stainless steel.
Technopolymer lever, black colour.
With or without lever cover.
Plunger Ø: 0.24 - 0.31 - 0.39 - 0.47 inch

GN 612.9
Lever indexing plungers
rest in retracted position, zinc alloy

PROFILE COMPATIBLE · METRIC

Die-cast zinc alloy body with holes for fitting.
Zinc-plated steel plunger.
Technopolymer lever, black colour.
Plunger Ø: 0.24 - 0.31 - 0.39 - 0.47 inch

GN 612.10
Lever indexing plungers
rest in retracted position, zinc alloy

METRIC

Die-cast zinc alloy body with holes for fitting.
Zinc-plated steel plunger.
Technopolymer lever, black colour.
Plunger Ø: 0.24 - 0.31 - 0.39 - 0.47 inch

GN 612.8
Lever indexing plungers
rest in retracted position, zinc alloy

METRIC

Threaded body in die-cast zinc alloy with surface protective treatment.
Zinc-plated steel plunger.
Technopolymer lever.
With or without locking nut.
Plunger Ø: 0.24 - 0.31 - 0.39 - 0.47 inch

GN 722.1
Lever indexing plungers
rest in retracted position, steel

INOX STAINLESS STEEL · METRIC

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: 0.31 - 0.39 - 0.47 - 0.55 - 0.63 - 0.79 inch

GN 722.2
Lever indexing plungers
rest in retracted position, steel or stainless steel

INOX STAINLESS STEEL · METRIC

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: 0.31 - 0.39 - 0.47 - 0.55 - 0.63 - 0.79 inch

GN 722.3
Lever indexing plungers
rest in retracted position, steel or stainless steel

INOX STAINLESS STEEL · PROFILE COMPATIBLE · METRIC

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: 0.31 - 0.39 - 0.47 - 0.55 - 0.63 - 0.79 inch

GN 722.4
Spring indexing plungers with ring
Fixing by means of welding, steel

INOX STAINLESS STEEL · METRIC

Black-oxide steel body
Zinc-plated steel or AISI 316 stainless steel plunger and lever.
With or without mounted operating ring.
Plunger Ø: 0.31 - 0.39 - 0.47 - 0.55 - 0.63 - 0.79 inch

8.2 Lever indexing plungers

continues

GN 712
Lever indexing plungers
rest in retracted position, steel
METRIC

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: 0.24 - 0.31 - 0.39 inch

GN 712.1
Lever indexing plungers
rest in retracted position, steel
METRIC

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: 0.24 - 0.31 - 0.39 inch

8.3 Quick release pins

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Material

- Technopolymer (2)
- Technopolymer - Stainless steel (1)
- Steel (3)
- Stainless steel (26)
- Titanium (1)

GN 113.3
Ball Lock Pins
Stainless steel
METRIC

INOX

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: 0.20 - 0.24 - 0.31 - 0.39 - 0.47 - 0.63 - 0.79 - 0.98 inch

GN 113.1
Lock pins
Stainless steel
METRIC

INOX

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: 0.24 - 0.31 - 0.39 - 0.47 inch

GN 113.5
Ball Lock Pins
Stainless steel
METRIC

INOX

AISI 303 stainless steel pin and push button, 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: 0.20 - 0.24 - 0.31 - 0.39 - 0.47 - 0.63 inch

GN 113.6
Ball Lock Pins
Stainless steel
METRIC

INOX

AISI 630 stainless steel pin and push button, AISI 420 stainless steel balls, stainless steel knob. By pressing the push button the two balls are freed and the pin can be pulled-out or inserted. Plunger Ø: 0.20 - 0.24 - 0.31 - 0.39 - 0.47 - 0.63 inch

GN 113.9
Ball Lock Pins
Stainless steel
METRIC

INOX

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: 0.20 - 0.24 - 0.31 - 0.39 - 0.47 - 0.63 - 0.79 - 0.98 inch

GN 113.10
Ball Lock Pins
Stainless Steel AISI 630
METRIC

INOX

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: 0.20 - 0.24 - 0.31 - 0.39 - 0.47 - 0.63 - 0.79 - 0.98 inch

GN 113.11
Ball Lock Pins
Stainless steel
METRIC

INOX PA

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: 0.20 - 0.24 - 0.31 - 0.39 - 0.47 - 0.63 - 0.79 - 0.98 inch

GN 113.12
Ball Lock Pins
Stainless Steel AISI 630
METRIC

INOX

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: 0.20 - 0.24 - 0.31 - 0.39 - 0.47 - 0.63 - 0.79 - 0.98 inch

8.3 Quick release pins

continues

GN 314
Quick release pins
with lock, stainless steel
METRIC

INOX 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: 0.31 - 0.39 - 0.47 - 0.63 - 0.79 inch

GN 113.7
Ball Lock Pins
Stainless steel
METRIC

INOX 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: 0.20 - 0.24 - 0.31 - 0.39 - 0.47 - 0.63 - 0.79 - 0.98 inch

GN 113.8
Ball Lock Pins
Stainless steel
METRIC

INOX 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: 0.20 - 0.24 - 0.31 - 0.39 - 0.47 - 0.63 - 0.79 - 0.98 inch

GN 113.30
Ball Lock Pins
Titanium
METRIC

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: 0.24 - 0.31 - 0.39 inch

GN 114.2
Lock pins
Steel
METRIC

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: 0.24 - 0.31 - 0.39 - 0.47 - 0.63 - 0.79 inch

GN 114.3
Lock pins
Stainless steel
METRIC

INOX 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: 0.24 - 0.31 - 0.39 - 0.47 - 0.63 - 0.79 inch

GN 114.6
Lock pins
Stainless steel
METRIC

INOX 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: 0.24 - 0.31 - 0.39 - 0.47 - 0.63 - 0.79 inch

GN 124.2
Ball Lock Pins
Stainless steel
METRIC

INOX 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: 0.24 - 0.31 - 0.39 - 0.47 inch

GN 124.3
Ball Lock Pins
Stainless steel
METRIC

INOX 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: 0.31 - 0.39 - 0.47 inch

GN 124.1
Magnetic quick release pins
Stainless steel
METRIC

INOX 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: 0.24 - 0.31 - 0.39 - 0.47 inch

8.3 Quick release pins

continues

GN 214.2
Lock pins
Steel
METRIC

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: 0.24 - 0.31 - 0.39 - 0.47 - 0.63 inch

GN 214.3
Lock pins
Stainless steel
METRIC
INOX

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: 0.24 - 0.31 - 0.39 - 0.47 - 0.63 inch

GN 214.6
Lock pins
Stainless steel
METRIC
INOX

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: 0.24 - 0.31 - 0.39 - 0.47 - 0.63 inch

CT-S
Ball chains
Technopolymer and stainless steel
INOX

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 ring. The ball chain feature is flexibility.

GN 111
Ball chains
Brass and stainless steel
INOX

Mainly used together with the different types of lock pins.
The ball chain feature is flexibility.

CV-T
Retaining cables
Polyethylene and stainless steel
INOX 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
INOX

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
INOX

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 cables
Polyurethane and stainless steel
INOX

Mainly used together with the different types of lock pins.
Stainless steel rings, tin-plated copper clamping plate, black polyurethane cable.

GN 111.6
Retaining rings
Stainless steel
INOX

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
METRIC

INOX 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.

GN 2344
Fixing plates
Stainless steel
METRIC

INOX STAINLESS STEEL

With eyelet or slot in AISI 316 stainless steel. Used with GN 111.2 retaining cables or GN 111 ball chains to prevent the loss of fastening components. Also allows axial and radial fastening of pins and eye screws.

8.4 Spring plungers

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Material

- Technopolymer (4)
- Steel (15)
- Stainless steel (19)
- Aluminium (1)
- Die-cast zinc alloy (1)
- Brass (1)

GN 513
Threaded spring elements
Steel
METRIC

Zinc-plated steel threaded body.
Black-oxide and case-hardened steel end.
Round, prismatic end with plunger or internal thread.
Standard or reinforced pressure spring.
Threads: M12x1.5 - M16x1.5 - M20x1.5

GN 615 - EN 615
Ball spring plungers
Steel
INCH METRIC

Black-oxide steel threaded body, screwdriver slotted head. Hardened steel ball, standard or reinforced pressure spring. Metric threads: M3 - M4 - M5 - M6 - M8 - M10 - M12 - M16 - M20 - M24. Inch threads: 4-48 - 5-40 - 6-32 - 6-40 - 8-32 - 8-36 - 10-32 - 1/4-20 - 5/16-18 - 3/8-16 - 1/2-3 - 5/8-11

GN 615-NI - EN 615-NI
Ball spring plungers
Stainless steel
INCH METRIC

INOX STAINLESS STEEL

AISI 303 stainless steel threaded body, screwdriver slotted head. Hardened stainless steel ball, standard or reinforced pressure spring. Threads: M3 - M4 - M5 - M6 - M8 - M10 - M12 - M16 - M20 - M24.
Inch threads: 4-48 - 5-40 - 6-32 - 6-40 - 8-32 - 8-36 - 10-32 - 1/4-20 - 5/16-18 - 3/8-16 - 1/2-3 - 5/8-11

GN 615.5
Ball spring plungers
Stainless steel, ceramic ball
METRIC

INOX STAINLESS STEEL

AISI 316 stainless steel threaded body, screwdriver slotted head.
Ceramic ball, standard or reinforced pressure spring.
Threads: M4 - M5 - M6 - M8 - M10 - M12 - M16

GN 615.8
Ball spring plungers with friction block bearing
with friction block bearing, steel or stainless steel

INOX STAINLESS STEEL METRIC

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.
Threads: M5 - M6 - M8 - M10 - M12 - M16

GN 715
Side thrust spring pins
Aluminium and steel
METRIC

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: 0.12 - 0.20 - 0.24 - 0.31 - 0.39 inch

GN 615.3
Ball spring plungers
Steel
METRIC

Black-oxide steel threaded body.
Hardened steel ball, standard or reinforced pressure spring.
Threads: 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

INOX STAINLESS STEEL METRIC

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.
Threads: M5 - M6 - M8 - M10 - M12 - M16

8.4 Spring plungers
continues

GN 615.3-NI
Ball spring plungers
Stainless steel
METRIC

INOX

AISI 303 stainless steel threaded body.
Hardened stainless steel ball, standard or reinforced pressure spring.
Threads: M3 - M4 - M5 - M6 - M8 - M10 - M12 - M16 - M20 - M24

GN 615.2
Ball spring plungers
Technopolymer
METRIC

INOX POM

Threaded body in technopolymer.
Technopolymer or hardened stainless steel ball.
Threads: M6 - M8 - M10

GN 615.4
Bolt spring plungers
Hexagon socket head, steel or stainless steel
METRIC

INOX

Black-oxide steel or AISI 303 stainless steel threaded body.
Hardened steel or AISI 303 stainless steel plunger, standard or reinforced pressure spring.
Threads: M4 - M5 - M6 - M8 - M10 - M12 - M16 - M20 - M24

GN 614.2
Spring plungers
Smooth body, balls at both ends, brass
METRIC

Smooth brass body, central knurling.
Hardened stainless steel balls.
Diameters Ø: 2.5 - 0.12 - 0.16 - 0.20 - 0.24 - 0.28 - 0.31 inch

GN 614.3
Ball spring plungers
Smooth body, stainless steel
METRIC

INOX

Smooth body in AISI 303 stainless steel.
Ball in hardened AISI 420C stainless steel.
Diameters Ø: 0.08 - 0.10 - 0.12 - 0.14 - 0.16 - 0.18 - 0.20 - 0.22 - 0.24 - 0.31 - 0.39 - 0.47 inch

GN 614.7
Ball spring plungers
Press-Fit Type, Long Version, with Ball

INOX

Smooth body in AISI 305 stainless steel.
AISI 420C stainless steel ball, standard pressure spring.
Diameters Ø: 0.16 - 0.20 - 0.24 - 0.31 - 0.39 inch

GN 614.8
Ball spring plungers with friction block bearing
with friction block bearing, smooth body, steel or stainless steel

INOX METRIC

Smooth body in AISI 303 stainless steel.
Ball in hardened AISI 420C stainless steel.
Technopolymer friction block bearing.
Diameters Ø: 0.16 - 0.20 - 0.24 - 0.31 - 0.39 - 0.47 inch

GN 614.4
Bolt spring plungers
Smooth body, stainless steel
METRIC

INOX

Smooth body in stainless steel.
Technopolymer or AISI 303 stainless steel plunger, standard pressure spring.
Diameters Ø: 0.16 - 0.20 - 0.24 - 0.31 - 0.39 inch

GN 615.1 - EN 615.1
Bolt spring plungers
Steel
METRIC

Black-oxide steel threaded body. Black-oxide steel or hardened steel plunger, standard or reinforced pressure spring. Metric threads: M4 - M5 - M6 - M8 - M10 - M12 - M16 - M20 - M24.
Inch threads: 4-48 - 5-40 - 6-32 - 6-40 - 8-32 - 8-36 - 10-32 - 1/4-20 - 5/16-18 - 3/8-16 - 1/2-3 - 5/8-11

GN 615.1-NI - EN 615.1-NI
Bolt spring plungers
Stainless steel
METRIC

INOX

AISI 303 stainless steel threaded body. Nitrided AISI 303 stainless steel plunger, standard or reinforced pressure spring. Metric threads: M4 - M5 - M6 - M8 - M10 - M12 - M16 - M20 - M24.
Inch threads: 4-48 - 5-40 - 6-32 - 6-40 - 8-32 - 8-36 - 10-32 - 1/4-20 - 5/16-18 - 3/8-16 - 1/2-3 - 5/8-11

8.4 Spring plungers
continues

GN 616 - EN 616
Bolt spring plungers
Steel
METRIC

Black-oxide steel threaded body. Hardened steel or technopolymer plunger, standard or reinforced pressure spring. Metric threads: M4 - M5 - M6 - M8 - M10 - M12 - M16 - M20 - M24.
Inch threads: 4-48 - 5-40 - 6-32 - 6-40 - 8-32 - 8-36 - 10-32 - 1/4-20 - 5/16-18 - 3/8-16 - 1/2-3 - 5/8-11

GN 616-NI - EN 616-NI
Bolt spring plungers
Stainless steel
METRIC
INOX STAINLESS STEEL

AISI 303 stainless steel threaded body. Nitrided AISI 303 stainless steel or technopolymer plunger, standard pressure spring. Metric threads: M4 - M5 - M6 - M8 - M10 - M12 - M16 - M20 - M24.
Inch threads: 4-48 - 5-40 - 6-32 - 6-40 - 8-32 - 8-36 - 10-32 - 1/4-20 - 5/16-18 - 3/8-16 - 1/2-3 - 5/8-11

GN 616.1
Bolt plungers with packing ring
with packing ring, steel or stainless steel
INOX STAINLESS STEEL METRIC

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.
Threads: M8 - M10 - M12 - M16

GN 611
Bolt spring plungers
Long stroke, steel or stainless steel
METRIC
INOX 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.
Threads: M10 - M12 - M16 - M24

GN 614.6
Bolt spring plungers
Smooth body, steel or stainless steel
METRIC
INOX 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: 0.24 - 0.31 - 0.39 - 0.47 inch

GN 615.7
Threaded ball spring plungers
with switch, steel
METRIC

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.
Threads: M6 - M8 - M10

GN 415
Side thrust pins
METRIC

Die-cast zinc alloy body.

GN 614.1
Holders for smooth plungers
Zinc alloy
METRIC

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 Ø: 0.24 - 0.31 inch

GN 614
Ball spring plungers
Smooth body, technopolymer

Acetal resin based technopolymer body.
Ball in hardened AISI 420C stainless steel or technopolymer.
Diameters Ø: 0.12 - 0.16 - 0.20 - 0.24 - 0.31 - 0.39 - 0.47 inch

GN 614-NI
Ball spring plungers
Smooth body, stainless steel
INOX STAINLESS STEEL

AISI 305 stainless steel body.
Ball in hardened AISI 420C stainless steel.
Diameters Ø: 0.12 - 0.16 - 0.20 - 0.24 - 0.31 - 0.39 - 0.47 inch

8.4 Spring plungers
continues

GN 614.5
Ball spring plungers
Smooth body, technopolymer

Acetal resin based technopolymer body.
Acetal-based technopolymer or AISI 420C stainless steel ball.
Diameters Ø: 0.16 - 0.20 - 0.24 - 0.31 - 0.39 inch

GN 815
Threaded plungers
Screwdriver slotted head, steel
METRIC

Black-oxide steel, screwdriver slotted head.
Hardened steel ball.
Threads: M4 - M5 - M6 - M8 - M10 - M12

GN 815-NI
Threaded plungers
Screwdriver slotted head, stainless steel
METRIC
INOX

AISI 303 stainless steel body, screwdriver slotted head.
Hardened stainless steel ball.
Threads: M4 - M5 - M6 - M8 - M10 - M12

GN 815.1
Cylindrical-head threaded plungers
Hexagon socket head, steel or stainless steel
INOX METRIC

Body in black-oxide steel or AISI 303 stainless steel, head with hexagon socket.
Ball in hardened steel or AISI 420C stainless steel.
Threads: 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: 0.16 - 0.24 - 0.31 - 0.39 - 0.47 - 0.63 - 0.79 inch

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.

9 Standard machine parts

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

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Material

- Technopolymer (6)
- Steel (45)
- Stainless steel (41)
- Aluminium (1)

GN 709.7
Locking elements
flat-faced ball pad, steel
METRIC

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: 0.39 - 0.51 inch

GN 709.8
Locking elements
flat-faced ball pad, steel
METRIC

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 6332
Grub screws
Steel or stainless steel
METRIC
INOX

Black-oxide steel, zinc-plated steel or AISI 304 stainless steel.
Hardened or unhardened pressure ends.
Threadings: M6 - M8 - M10 - M12 - M16 - M20

DIN 6311
Thrust pads with elastic ring
with elastic ring, steel
METRIC

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 be locked. Diameters: 0.47 - 0.63 - 0.79 - 0.98 - 1.26 - 1.57 inch

GN 6311.1
Thrust pads
with elastic ring, steel or stainless steel
METRIC
INOX

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: 0.63 - 0.79 - 0.98 - 1.26 inch

GN 6311.3
Thrust pads with elastic ring
with elastic ring, steel
METRIC

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: 1.97 - 2.36 inch

GN 6311.5
Thrust pads
with elastic ring, stainless steel
METRIC
INOX

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: 1.97 - 2.36 inch

GN 632.1
Grub screws
with ball end, steel
METRIC
INOX

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

9.1 Grub-screws, thrust pads, rings, washers
continues

GN 632.5
Grub screws
with ball end, stainless steel
METRIC

INOX 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
METRIC

INOX 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
METRIC

The d2 and l1 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 stainless steel AISI 303
INOX STAINLESS STEEL METRIC

The d2 and l1 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

POM

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: 0.59 - 0.71 - 0.83 - 0.98 - 1.26 - 1.57 - 1.97 inch

GN 631.5
Thrust pads with elastic ring
with elastic ring, stainless steel

INOX 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: 0.83 - 0.98 - 1.26 - 1.57 - 1.97 inch

GN 912.2
Retained screws
Stainless steel
METRIC

INOX STAINLESS STEEL

Retained screws can be used where loss of screws must be avoided due to the cylindrical d3 part of the pin.
Diameters: 0.47 - 0.63 - 0.79 - 0.98 - 1.18 - 1.38 - 1.57 inch

GN 252 - GN 252.5
Blanking plugs
Steel or stainless steel
METRIC

INOX 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
METRIC

INOX 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 steel.
Threadings: M12 - M18 - M24 - M30 - M36

GN 355.2
Levelling elements
with captive spherical washer, stainless steel
METRIC

INOX 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 steel.
Threadings: M12 - M18 - M24

9.1 Grub-screws, thrust pads, rings, washers

continues

GN 355.1
Assembly tool
for levelling inserts GN 355, steel
METRIC

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: 0.47 - 0.71 - 0.94 - 1.18 - 1.42 inch

GN 360
Levelling inserts
Steel or stainless steel
METRIC
INOX 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 346
Thrust pads
threaded hole, steel
METRIC

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.
Diameters: 0.63 - 0.79 - 0.94 - 1.18 inch

GN 347
Ball joint thrust pads
Steel
METRIC

They are mainly used to lock metal parts.
Diameters: 0.67 - 0.83 - 0.94 - 1.18 - 1.42 - 1.73 inch

GN 338
Disks with protection cap
Steel

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: 0.63 - 0.79 - 0.98 - 1.26 inch

GN 913.2
Grub screws
Steel
METRIC

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

GN 913.3
Grub screws
brass or technopolymer pad, steel
METRIC

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 913.5
Grub screws
brass or technopolymer ball pad, stainless steel
METRIC
INOX 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 605
Grub screws
ball end, steel
METRIC

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
METRIC
INOX 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 - M16

9.1 Grub-screws, thrust pads, rings, washers
continues

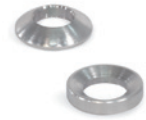
GN 551.1
Threaded studs
Steel
METRIC

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

DIN 6319
Concave and convex washers
Steel
METRIC
INOX STAINLESS STEEL

These washers are used mainly for locking mechanical parts on non-parallel surfaces.
External diameters: 0.47 - 0.67 - 0.83 - 0.94 - 1.10 - 1.18 - 1.42 - 1.73 - 2.20 - 2.68 - 3.07 - 3.62 inch

DIN 6319-NI - DIN 6319-A4
Concave and convex washers
Stainless steel
METRIC
INOX STAINLESS STEEL



These washers are used mainly for locking mechanical parts on non-parallel surfaces.
External diameters: 0.47 - 0.67 - 0.83 - 0.94 - 1.10 - 1.18 - 1.42 - 1.73 - 2.20 inch

GN 7062.1
Semi-split clamps assembly
with threaded holes, stainless steel
INOX STAINLESS STEEL METRIC

With radial or axial threaded holes.
They are fixed to the shaft by suitably tightening the screw.
Diameters: 1.18 - 1.26 - 1.42 - 1.65 - 1.89 - 2.17 - 2.36 - 2.56 inch

GN 7062.2
Semi-split clamps assembly
with axial mounting holes, stainless steel
INOX STAINLESS STEEL METRIC

With 0.08 smooth or threaded axial pass-through holes or with 0.08 axial holes for cylinder head screws. They are fixed to the shaft by suitably tightening the screw.
Diameters: 1.18 - 1.26 - 1.42 - 1.65 - 1.89 - 2.17 - 2.36 - 2.56 inch

GN 7062.3
Semi-split clamps assembly
with damping washer, stainless steel
INOX STAINLESS STEEL METRIC

They are fixed to the shaft by suitably tightening the screw.
Diameters: 1.18 - 1.26 - 1.42 - 1.65 - 1.89 - 2.17 - 2.36 - 2.56 inch

GN 7062.30
Damping washers
for set collars, polyurethane
METRIC

The damping washers are accessories for the various types of set collars.
Diameters: 1.18 - 1.26 - 1.42 - 1.65 - 1.89 - 2.17 - 2.36 - 2.56 inch

GN 7072.1
Dismountable split set collars
with threaded holes, stainless steel
INOX STAINLESS STEEL METRIC

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: 1.18 - 1.26 - 1.42 - 1.65 - 1.89 - 2.17 - 2.36 - 2.56 inch

GN 7072.2
Dismountable split set collars
with axial mounting holes, stainless steel
INOX STAINLESS STEEL METRIC

With 0.08 smooth or threaded axial pass-through holes or with 0.08 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: 1.18 - 1.26 - 1.42 - 1.65 - 1.89 - 2.17 - 2.36 - 2.56 inch

GN 7072.3
Dismountable split set collars
with damping washer, stainless steel
INOX STAINLESS STEEL METRIC

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: 1.18 - 1.26 - 1.42 - 1.65 - 1.89 - 2.17 - 2.36 - 2.56 inch

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: 1.18 - 1.26 - 1.42 - 1.65 - 1.89 - 2.17 - 2.36 - 2.56 inch

GN 7062.10
Brackets for sensor holders
Stainless steel

INOX STAINLESS STEEL

They are used to contain sensors.

GN 826
Clamping elements for spindles
Aluminum
METRIC

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: 1.57 - 1.97 - 2.36 inch

CMC
Torque amplifier collar
Technopolymer
METRIC

INOX STAINLESS STEEL

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: 0.31 - 0.39 - 0.47 inch

GN 6342
Washers with antifriction disc
with antifriction disc, steel or stainless steel

INOX STAINLESS STEEL METRIC

They are used to apply a higher axial force in clamping operations.
Diameters: 0.79 - 1.02 - 1.10 - 1.26 inch

GN 6343
Washers
Stainless steel
METRIC

INOX 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: 0.31 - 0.39 - 0.47 - 0.63 inch

GN 350.3
Levelling washers
single body, steel or stainless steel
METRIC

INOX 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: 0.98 - 1.26 - 1.77 - 2.28 - 2.76 - 3.15 - 4.13 inch

GN 183
C-shaped washers
Steel
METRIC

GN 183 C-shaped washers are suitable for assembly on parts to be machined without unscrewing the nut from the screw.
Diameters: 0.87 - 1.10 - 1.34 - 1.57 - 2.20 inch

GN 184
Washers for screws
for screws, steel
METRIC

A typical application for washers is mounting them at the top of the shaft to retain a handwheel with an axial key.
Diameters: 0.63 - 0.79 - 0.87 - 0.98 - 1.10 - 1.26 - 1.42 - 1.57 - 1.77 - 2.05 inch

GN 184.5
Washers for screws
for screws, stainless steel
METRIC

INOX 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: 0.63 - 0.79 - 0.87 - 0.98 - 1.10 - 1.26 - 1.42 - 1.57 - 1.77 - 2.05 inch

9.1 Grub-screws, thrust pads, rings, washers
continues

GN 185
Washers for screws
for screws, stainless steel
METRIC

INOX 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: 0.71 - 0.79 - 0.87 - 1.02 inch

GN 6339
Washers for heavy duty applications
for heavy duty applications, steel
METRIC

They are designed for heavy-duty applications where a high clamping force must be achieved and maintained.
Diameters: from 0.47 to 2.68 inch

GN 6319.1
Levelling washers
single body, steel
METRIC

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: 0.51 - 0.67 - 0.83 - 0.98 - 1.26 - 1.57 inch

DIN 172
Guide bushings
Steel
METRIC

d2 external diameter n6 tolerance assures a perfect clamping in the mounting holes in H7 tolerance.
Diameters: from 0.08 to 1.18 inch

GN 172.1
Guide bushings
Steel
METRIC

GN 172.1 guide bushings have a tapered hole to optimise their use with GN 817.5 plungers.
Diameters: 0.24 - 0.31 - 0.39 inch

DIN 179
Guide bushings
Steel
METRIC

d2 external diameter n6 tolerance assures a perfect clamping in the mounting holes in H7 tolerance.
Diameters: from 0.6 to 1.65 inch

GN 179.1
Guide bushings
Steel
METRIC

GN 179.1 guide bushings have a tapered hole to optimise their use with GN 817.5 plungers.
Diameters: 0.24 - 0.31 - 0.39 inch

GN 609.5
Distance bushings
Stainless steel

INOX STAINLESS STEEL

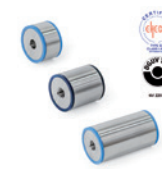
They are generally used to compensate for the length of the body thread on indexing plungers, allowing them to be mounted on sheet metal of different thicknesses.
Internal diameters: 0.31 - 0.39 - 0.47 - 0.63 - 0.71 - 0.79 inch

GN 6220
Spacer sleeves
Steel or stainless steel
METRIC

INOX 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



INOX STAINLESS STEEL HD FDA

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: 0.20 - 0.24 - 0.31 inch

9.1 Grub-screws, thrust pads, rings, washers

continues

GN 6322
Workholding bolt with ball-type shoulder
Steel
METRIC

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: 0.39 - 0.47 - 0.63 - 0.79 - 0.87 - 0.98 inch

DIN 6321
Work-holding bolt
Steel
METRIC

With conical cylinder or facetted head.
Diameters: 0.24 - 0.31 - 0.39 - 0.47 - 0.63 - 0.79 - 0.98 inch

GN 408.1
Positioning and supporting elements
with threaded stud, steel
METRIC

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 709.1
Clamping pad
with threaded stud, steel
METRIC

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 709.15
Clamping pad
with threaded stud, stainless steel
METRIC
INOX

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 709.2
Clamping pad
with tapped blind hole, steel
METRIC

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.
Diameters: 0.47 - 0.71 - 1.10 inch

GN 709.25
Clamping pad
with tapped blind hole, stainless steel
METRIC
INOX

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: 0.47 - 0.71 - 1.10 inch

GN 709.3
Clamping pad
with adjustable threaded stud, steel
METRIC

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

GN 709.35
Clamping pad
with adjustable threaded stud, stainless steel
METRIC
INOX

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 580
Lifting eyebolts
Stainless steel
METRIC
INOX

Threadings: M8 - M10 - M12 - M16 - M20 - M24

9.1 Grub-screws, thrust pads, rings, washers

continues

GN 1130
Lifting lock pins
Steel or stainless steel
METRIC

INOX

Stainless steel balls and spring.
Diameters: 0.31 - 0.39 - 0.47 - 0.63 - 0.79 inch

GN 1133
Lifting lock pins
Steel or stainless steel
METRIC

INOX

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
METRIC

INOX

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
METRIC

INOX

They are used with GN 1130 lifting pins.
Threadings: M16x1.5 - M16 - M20x1.5 - M20 - M24x1.5 - M24 - M30x2 - M36x2

BJT.
Rod ends
Technopolymer
METRIC

PA

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: 0.24 - 0.31 - 0.39 - 0.47 - 0.55 inch

FJT.
Forks
Technopolymer
METRIC

PA

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

INOX

They are mainly used for axial fastening of bolts and axles.
Diameters: 0.06 - 0.08 - 0.12 - 0.16 - 0.20 - 0.24 - 0.28 inch

DIN 444
Eye screws
Steel
METRIC

They are mainly used for attaching moulds, equipment, etc.
Threadings: M5 - M6 - M8 - M10 - M12 - M16 - M20

DIN 444-NI
Eye screws
Stainless steel
METRIC

INOX

They are mainly used for attaching moulds, equipment, etc.
Threadings: M5 - M6 - M8 - M10 - M12 - M16 - M20

GN 444.2
Eye nuts
Steel
METRIC

They can be used in combination with threaded studs of different lengths.
They are mainly used for moulds, jigs, equipment, etc.
Diameters: 0.31 - 0.39 - 0.47 - 0.63 inch

9.2 Set collars

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Material

- Technopolymer (1)
- Steel (4)
- Stainless steel (5)
- Aluminium (4)

ANPS
Dismountable split set collars
Clamping assembly, technopolymer

PA

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 0.47 to 2.76 inch

GN 705
Semi-split clamps assembly
screw assembly, steel
METRIC

Black-oxide steel or zinc-plated steel material.
Fastening by means of screw without screwdriver head or with hexagon socket.
Internal diameters: from 0.20 to 3.15 inch

GN 705-NI
Semi-split clamps assembly
screw assembly, stainless steel
INOX STAINLESS STEEL METRIC

AISI 303 stainless steel material.
Assembly by means of stainless steel grub screw, with hexagon socket.
Internal diameters: from 0.20 to 1.97 inch

GN 706.2
Semi-split set collars
clamping assembly, steel, stainless steel or aluminium
INOX STAINLESS STEEL METRIC

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 0.24 to 1.57 inch

GN 311
Clamping kit for set collars
Zinc alloy and stainless steel
INOX STAINLESS STEEL METRIC

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 706.3
Semi-split set collars
for threaded shafts, steel or stainless steel
METRIC
INOX STAINLESS STEEL

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

GN 707.2
Dismountable split set collars
clamping assembly, steel, stainless steel or aluminium
INOX STAINLESS STEEL METRIC

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 0.24 to 1.57 inch

GN 704
Semi-split clamps assembly
quick release, aluminium
METRIC

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 0.24 to 1.57 inch

9.3 T-Nuts

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DIN 508
T-Nuts
Steel or stainless steel
METRIC
INOX STAINLESS STEEL PROFILE COMPATIBLE

Groove width DIN 650: 0.20 - 0.24 - 0.31 - 0.39 - 0.47 - 0.55 - 0.63 - 0.71 - 0.79 - 0.87 - 0.94 - 1.10 inch

GN 505
T-Nuts
quick-insert, steel
METRIC

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

9.3 T-Nuts

continues

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Material

- Steel (11)
- Stainless steel (4)

GN 505.4
T-Nuts
quick-insert, steel
METRIC

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
METRIC

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
METRIC

Zinc-plated steel or AISI 303 stainless steel, stainless steel ball and spring.
They are particularly suitable for use on sliding guides.
Groove width: 0.20 - 0.24 - 0.31 inch

GN 506
T-Nuts
with guide and no-slip device, steel
METRIC

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: 0.20 - 0.24 - 0.31 inch

GN 507
T-Nuts
Steel
METRIC

Groove width: 0.31 - 0.39 inch

GN 506.2
T-Nuts
with guide and no-slip device, steel
METRIC

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: 0.31 - 0.39 inch

GN 965
Kit for the assembly of various components
for profiles of 1.18 and 1.57 inch, steel
METRIC

With cylinder-head screw or flat countersunk-head screw. With flat pan head screw or low cylinder-head screw. They allow the attachment of a wide variety of elements with 1.18 and 1.57 inch aluminium profiles.
Threadings: M4 - M5 - M6

GN 968
Kit for the assembly of various components
for profiles of 1.18 - 1.57 - 1.77 inch, steel
METRIC

With cylinder-head screw or flat countersunk-head screw. With flat pan head screw or low cylinder-head screw. They allow the attachment of a wide variety of elements with 30, 1.57 and 1.77 inch aluminium profiles.
Threadings: M4 - M5 - M6

GN 508.1
T-Nuts
Steel
METRIC

They can be inserted vertically into T-slots.
Groove width: 0.31 - 0.39 - 0.47 - 0.55 - 0.63 - 0.71 - 0.87 inch

GN 508.2
T-Nuts
Steel
METRIC

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: 0.31 - 0.39 - 0.47 - 0.55 - 0.63 - 0.71 - 0.87 inch

9.3 T-Nuts

continues

GN 933.5
Grub screws
brass or technopolymer ball pad, stainless steel
METRIC

INOX 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 (7)
- 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: 0.94 - 1.18 - 1.38 inch

GN 918 - GN 918.1 - GN 918.2
Cam locking levers
Steel
METRIC

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: 1.57 - 1.97 inch

GN 918.5 - GN 918.6 - GN 918.7
Cam locking levers
Stainless steel
METRIC

INOX 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: 1.57 - 1.97 inch

RDB
Toothed clamping elements
SUPER-technopolymer
METRIC

SUPER TECHNOPOLYMER PA

The toothed elements are used to secure coupled parts at a given angle.
With or without built-in case. ML-RDB: AISI 301 stainless steel thrust springs facilitating the detachment of the locking elements.
Diameters: 1.26 - 1.57 inch

GN 187.4
Toothed clamping elements
Steel
METRIC

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: 0.87 - 1.06 - 1.26 - 1.57 inch

GN 187.1
Cases for GN 187.4
for toothed clamping elements GN 187.4, steel or stainless steel

INOX 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: 0.87 - 1.06 - 1.26 - 1.57 inch

GN 187.2
Thrust springs for GN 187.4
for toothed clamping elements GN 187.4, stainless steel

INOX 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: 0.59 - 0.71 - 0.91 - 1.10 inch

GN 187.4-NI
Toothed clamping elements
Stainless steel
METRIC

INOX 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: 0.87 - 1.06 - 1.26 - 1.57 inch

9.4 Locking elements

continues

GN 188
Toothed clamping elements
Stainless steel
METRIC
INOX

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: 1.38 - 2.17 - 2.95 inch

GN 187.5
Toothed clamping elements
Stainless steel
METRIC
INOX

With threaded or unthreaded stud (for welding), with stud with threaded hole; with horizontal fastening flange; toothed plate (for welding). The toothed elements are used to secure coupled parts at a given angle.
Diameters: 0.87 - 1.06 - 1.26 - 1.57 inch

GN 187.6
Locking joint set
for toothed clamping elements GN 187.5, zinc alloy and stainless steel
INOX METRIC

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: 1.06 - 1.26 - 1.57 inch

GN 928
Clamping elements
for round cross section shafts, steel
METRIC

The unit allows round-section shafts, from 0.24 to 4.92 inch diameter, to be clamped precisely and quickly.
Diameters: 0.31 - 0.39 - 0.47 - 0.63 - 0.79 - 0.98 - 1.18 inch

GN 928.1
Mounting tools
for shaft clamping elements GN 928

Steel

9.5 Transfer units

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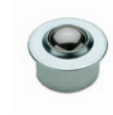
Material

- Technopolymer (3)
- Steel (4)
- Stainless steel (5)

GN 509
Ball transfer units
Steel
INOX POM



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: 0.94 - 1.42 - 1.77 inch

GN 509.1
Ball transfer units
Steel or stainless steel
INOX

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: 0.87 - 0.94 - 1.42 - 1.77 - 2.44 - 3.94 inch

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: 0.71 - 0.87 - 0.94 - 36.5 - 1.75 - 2.46 inch

GN 509.3
Spring rings
for ball transfer units, steel or stainless steel
INOX

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: 1.42 - 1.50 inch

9.5 Transfer units

continues

UTB
Ball transfer units
Technopolymer

INOX STAINLESS STEEL · POM

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 lines.
Diameters: 10.4 - 0.94 - 1.42 - 1.77 inch

UTB-SST-ESD
Ball transfer units
ESD conductive technopolymer

INOX STAINLESS STEEL · ESD

Main ball in AISI 316 stainless steel.
They are particularly suitable for applications on transfer and conveyor lines or end of production lines.
Diameters: 0.94 inch

UTR
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 lines.
Diameters: 0.94 - 1.42 inch

9.6 Modular roller tracks

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Material

- Technopolymer (7)
- Aluminium (1)

RLT-U
Roller elements for ELEROLL roller tracks
Technopolymer and polyurethane

POM · PA · TPU

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.

RLT-U15
Roller elements for ELEROLL roller tracks
For packages with reduced size, technopolymer

POM · PA · TPU

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.

RLS-U
Ball elements for ELEROLL roller tracks
Technopolymer

POM · PA

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-AL
Profiles for ELEROLL 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.

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.

RLT-CE
Containment edge for ELEROLL roller tracks
Polycarbonate

PC

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

continues

RLT-B
Brakes for ELEROLL roller tracks
Polycarbonate

PC

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 other fasteners.

RLT-M
Bracket and support for ELEROLL roller tracks
Technopolymer

PA

The bracket and the support facilitate the mounting of ELEROLL roller tracks on machines and other supporting structures.

9.7 Spirit level bubbles

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Material

- Technopolymer (4)
- Stainless steel (1)
- Aluminium (5)
- Brass (1)

BEL-PM
Level bubbles
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.
Diameters: 0.55 - 0.79 - 1.18 inch

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: 0.79 - 0.98 - 1.18 inch

BEL-PH
Level bubbles
for mounting in suitable housings

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 positioning of machines, devices, equipment and instruments. Diameters: 0.47 - 0.55 - 0.59 - 0.71 inch

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: 0.67 - 0.79 - 0.94 inch

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: 0.79 - 0.98 - 1.18 - 1.57 - 1.97 inch

BEL-AP
Adjusting plates
for BEL-MF level bubbles, stainless steel

INOX STAINLESS STEEL

Used in combination with the BEL-MF-A level bubbles.
Diameters: 0.79 - 0.98 - 1.18 - 1.57 - 1.97 inch

BEL-RB
Level bubbles
for screw mounting, aluminium

METRIC

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: 2.44 inch

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: 1.46 inch

9.7 Spirit level bubbles

continues

BEL-MB
Monodirectional screw-on levels
for screw mounting, aluminium
METRIC

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: 2.13 inch

BOL-MB
Monodirectional screw-on levels
for screw mounting, technopolymer
PC PMMA

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: 2.20 - 3.43 inch

BOL-PH
Level bubbles
for mounting in suitable housings
PMMA

Range of the level bubble: 0.20 angle degrees at full scale.
Colourless contrast fluid.
Used to control the horizontal positioning of jigs, machines, devices, equipment and instruments.
Diameters: 1.57 - 2.48 inch

BOL-MF
Level bubbles
with mounting flange
PMMA

Range of the level bubble: 3, 0.20 or 0.39 angle degrees at full scale.
Colourless contrast fluid.
Used to control the horizontal positioning of jigs, machines, devices, equipment and instruments.
Diameters: 2.17 - 3.15 - 3.94 inch

9.8 Spur gears

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Material
- Technopolymer (6)
- Steel (1)
- Stainless steel (1)
- Aluminium (2)

ZCL
Spur Gears
Technopolymer, pressure angle 20°
PA

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.

ZCL-VD
Spur Gears
Visually Detectable technopolymer, pressure angle 20°
VD PA

Gears with non-drilled hub or with smooth pass-through hole.
Modules 1.0, 1.5, 2.0.

ZCP
Spur Gears
Acetal resin based technopolymer, pressure angle 20°.
POM

Technopolymer, white colour.
Gears with smooth pass-through hole.
Modules 0.5, 0.7, 1.0, 1.25, 1.5, 2.0, 3.0.

ZCR
Racks
Technopolymer, pressure angle 20°
PA

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.

NSF
Lead screw nuts
Trapezoidal thread, technopolymer
PA

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: 1.65 - 1.89 - 2.17 - 2.44 inch

NSL
Lead screw shafts for NSF
Trapezoidal thread, steel or stainless steel
INOX STAINLESS STEEL

NSL threaded shafts form, together with NSF nuts, a structured system for converting rotation into linear motion.

9.8 Spur gears

continues

ZGD
Toothed joints
Technopolymer
METRIC

PA

Aluminium boss.
Male half-coupling, external teeth or female half-coupling, internal teeth.
Toothed joints are used to couple rotating shafts.
Diameters: 0.79 - 0.94 - 1.06 inch

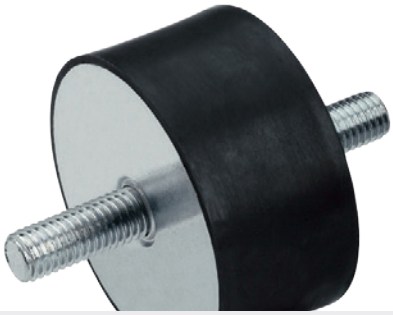
GN 3975
Worm Gear Reducers
Housing Aluminum
METRIC

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: 1.38 inch

GN 3971
Bevel Gear Boxes
Housing Aluminum
METRIC

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: 0.71 - 0.79 - 0.94 - 1.02 - 1.18 - 1.26 - 1.38 inch

10 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

- Technopolymer (2)
- Technopolymer - Steel (1)
- Technopolymer - Stainless steel (2)
- Rubber - Steel (16)
- Rubber - Stainless steel (16)
- Steel (1)
- Stainless steel (2)
- Rubber (1)

DVA.1
Rubber buffers
Rubber and steel or stainless steel
INCH METRIC
INOX

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: 0.24 - 0.31 - 0.39 - 0.59 - 0.79 - 0.98 - 1.18 - 1.57 - 1.97 - 2.36 - 2.76 - 2.95 - 3.15 - 3.94 - 4.92 inch

DVA.2
Rubber buffers
Rubber and steel or stainless steel
INCH METRIC
INOX

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: 0.31 - 0.39 - 0.59 - 0.79 - 0.98 - 1.18 - 1.57 - 1.97 - 2.36 - 2.76 - 2.95 - 3.94 - 4.92 inch

DVA.3
Rubber buffers
Rubber and steel or stainless steel
INCH METRIC
INOX

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: 0.31 - 0.39 - 0.59 - 0.79 - 0.98 - 1.18 - 1.57 - 1.97 - 2.36 - 2.76 - 2.95 - 3.15 - 3.94 - 4.92 - 5.91 - 7.87 inch

DVA.4
Rubber buffers
Rubber and steel or stainless steel
INCH METRIC
INOX

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: 0.31 - 0.39 - 0.59 - 0.79 - 0.98 - 1.18 - 1.57 - 1.97 - 2.36 - 2.76 - 2.95 - 3.15 - 3.94 - 4.92 inch

DVA.5
Rubber buffers
Rubber and steel or stainless steel
INCH METRIC
INOX

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: 0.31 - 0.39 - 0.59 - 0.79 - 0.98 - 1.18 - 1.57 - 1.97 - 2.36 - 2.76 - 2.95 - 3.94 - 4.92 - 5.91 - 7.87 inch

DVA.6
Rubber buffers
Rubber and steel or stainless steel
INCH METRIC
INOX

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: 0.39 - 0.79 - 0.98 - 1.18 - 1.38 - 1.97 - 2.76 - 2.95 - 3.74 - 4.53 inch

DVA.7
Rubber buffers
Rubber and steel or stainless steel
INCH METRIC
INOX

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: 0.39 - 0.79 - 0.98 - 1.18 - 1.38 - 1.97 - 2.76 - 2.95 inch

DVB.6
Rubber buffers
Rubber and steel or stainless steel
METRIC
INOX

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: 0.79 - 0.98 - 1.18 - 1.57 - 1.77 - 1.97 - 2.36 inch

10.1 Rubber buffers

continues

DVB.7
Rubber buffers
Rubber and steel or stainless steel
METRIC
INOX

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: 0.79 - 0.98 - 1.18 - 1.57 - 1.77 - 1.97 - 2.36 inch

DVF.6
Rubber buffers
Silicone rubber and stainless steel
METRIC
INOX

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: 0.79 - 0.98 -30 - 1.57 - 1.77 - 1.97 - 2.36 inch

DVF.7
Rubber buffers
Silicone rubber and stainless steel
METRIC
INOX

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: 0.79 - 0.98 - 1.18 - 1.57 - 1.77 - 1.97 - 2.36 inch

DVC.1
Rubber buffers
Rubber and steel or stainless steel
METRIC
INOX

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: 0.39 - 0.59 - 0.79 - 0.98 - 1.18 - 1.38 - 1.57 - 1.97 - 2.36 - 2.76 - 2.95 - 3.74 inch

DVC.2
Rubber buffers
Rubber and steel or stainless steel
METRIC
INOX

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: 0.39 - 0.59 - 0.79 - 0.98 - 1.18 - 1.38 - 1.57 - 1.97 - 2.36 - 2.76 - 2.95 - 3.74 inch

DVC.3
Rubber buffers
Rubber and steel or stainless steel
METRIC
INOX

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: 0.39 - 0.59 - 0.79 - 0.98 - 1.18 - 1.38 - 1.57 - 1.97 - 2.36 - 2.76 - 2.95 - 3.74 inch

DVL.1
Rubber buffers
Rubber and steel or stainless steel
METRIC
INOX

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: 0.79 - 0.98 - 1.18 - 1.57 - 1.97 - 2.36 - 3.15 - 3.94 inch

DVL.2
Rubber buffers
Rubber and steel or stainless steel
METRIC
INOX

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: 0.59 - 0.79 - 0.98 - 1.18 - 1.38 - 1.57 - 1.97 - 2.36 - 2.95 - 3.94 inch

DVL.3
Rubber buffers
Rubber
METRIC

Plain pass-through hole.
Vibration-damper body in natural rubber NR, hardness 40, 55, 70 ±5 Shore A.
Diameters: 0.59 - 0.79 - 0.98 - 1.18 - 1.57 - 1.97 - 2.36 - 3.15 - 3.94 inch

LS.VA
Vibration-damping levelling feet
Technopolymer base, steel stem, PUR damping element
PA
METRIC

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: 1.26 - 1.57 - 1.97 - 2.36 inch
Threadings: M8 - M10 - M12 - M14 - M16

10.1 Rubber buffers

continues

LS.VA-SST
Vibration-damping levelling feet
Technopolymer base, Stainless Steel AISI 304 stem, PUR damping element

INOX STAINLESS STEEL · PA · METRIC

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: 1.26 - 1.57 - 1.97 - 2.36 inch
Threadings: M8 - M10 - M12 - M14 - M17

LS.VA-STP
Vibration-damping levelling feet
Technopolymer base, SUPER-technopolymer stem, PUR damping element

SUPER TECHNOPOLYMER · PA · METRIC

Threaded stem with ball joint and adjustment hexagon in SUPER-technopolymer.
Vibration-damping disk in polyurethane rubber, hardness 50 Shore A.
Bases Ø: 1.26 - 1.57 - 1.97 - 2.36 inch
Threadings: M8 - M10 - M12

BASE LS.VA
Bases for vibration-damping levelling feet
Technopolymer, PUR damping element

PA

Vibration-damping disk in polyurethane rubber, hardness 50 Shore A.
Diameters: 1.26 - 1.57 - 1.97 - 2.36 inch

LSQ.VA-SST
Vibration-damping levelling feet
Technopolymer base, Stainless Steel AISI 304 stem, PUR damping element

INOX STAINLESS STEEL · PA · METRIC

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: 1.26 - 1.57 - 1.97 - 2.36 inch
Threadings: M8 - M10 - M12 - M14 - M18

LM.SV
Vibration-damping levelling feet
Steel base and stem

METRIC

Ball joint with threaded hole or stem.
PUR elastomer damping element, glued into the base housing. Zinc-plated steel nut.
Bases Ø: 1.26 - 1.57 - 1.97 - 2.36 inch
Threadings: M10 - M12 - M16

LW.A
Vibration-damping levelling feet
Steel base and stem

METRIC

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: 3.15 - 4.72 - 6.30 - 7.87 inch
Threadings: M12 - M16 - M20

AVR
Rubber buffers
Rubber and steel

Anthracite painted zinc-plated steel plates.
Vibration-damping body in NBR rubber, hardness 30, 50, 55, 60 and 80 Shore A.
Dimension: 7.87 inch

10.2 AV Mounts

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DVE
Flange mounts
Rubber and steel or stainless steel

METRIC · INOX STAINLESS STEEL

Oval or square mounting flange.
Boss with threaded blind hole.
Vibration-damper body in natural rubber NR, hardness 40, 60 ±5 Shore A.
Diameters: 0.71 - 1.30 - 1.77 - 2.09 - 2.28 inch

DVG
Flange mounts
for wall or ceiling mounting, rubber and steel

METRIC

Mounting flange and steel boss with threaded hole.
Vibration-damper body in natural rubber NR, hardness 40, 60 ±5 Shore A.
Dimension: 2.95 inch

10.2 AV Mounts

continues

elesa.com

Material

- Rubber - Steel (4)
- Rubber - Stainless steel (2)

DVI
Flange mounts
for wall mounting, rubber and steel
METRIC

Mounting flange and steel boss with threaded hole.
Vibration-damper body in natural rubber NR, hardness 40, 60 ±5 Shore A.
Dimension: 2.95 inch

AVG
Flange mounts
(double acting), rubber and steel
METRIC

Aluminium flange, fixing boss in steel.
Vibration-damper body in natural rubber NR, hardness 30, 50, 60 ±5 Shore A.
Dimension: 3.15 inch

AVF
Metal Cushions
Stainless steel
METRIC
INOX

AISI 304 stainless steel mesh.
Mounting via smooth pass-through hole or countersunk-head screws
Diameters: 1.65 - 2.64 - 3.86 - 5.91 - 183 - 225 inch

10.3 Spring mounts and wire rope isolators

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Material

- Rubber - Steel
- Rubber - Stainless steel

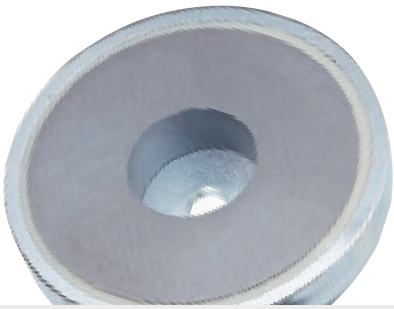
AVC
Wire rope isolators
Stainless steel
METRIC
INOX

Cable, bars, and screws in AISI 316 stainless steel.
Mounting via threaded pass-through holes.
Four-, six-, or eight-coil cable
Dimensions: 2.09 - 2.40 - 3.15 - 3.54 - 3.94 - 4.33 - 4.72 - 5.31 inch

AVM
Spring mounts
Rubber and steel
METRIC

Body and no-slip coating in NR natural rubber, hardness 60 ±5 Shore A.
Zinc-plated spring and plate.
Dimension: 2.17 inch

11 Industrial magnets



A wide range of industrial magnets for use in positioning and clamping applications.

11.1 Flat magnets

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Magnet materials

- HF - Hard ferrite (4)
- AN - Aluminium-nickel-cobalt (1)
- SC - Samarium cobalt (4)
- ND - Neodymium-iron-boron (19)

Material

- Technopolymer (4)
- Stainless steel (3)
- Steel (16)

RMA
Flat magnets

HF SC ND

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.
Ø D = 0.24 ÷ 4.92 inch L = 0.18 ÷ 1.02 inch

RMB
Flat magnets
with threaded pin
METRIC

INOX HF SC ND

Zinc-plated steel or AISI 316L stainless steel housing.
Magnet in ferrite, neodymium iron boron (NdFeB), or samarium cobalt (SmCo), shielded with high performance.
Ø D = 0.39 ÷ 4.92 L = 0.18 ÷ 1.02

RMC
Flat magnets
with threaded hole insert, hook-shaped or eyelet-shaped

INOX HF SC ND METRIC

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.
Ø D = 0.39 ÷ 4.92 inch L = 0.18 ÷ 1.02 inch

RMD
Flat magnets
with pass-through hole

INOX HF SC ND

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 = 0.39 ÷ 3.94 inch L = 0.18 ÷ 0.71 inch

RME
Flat magnets
pass-through hole

AN

Zinc-plated or lacquered steel housing. Magnet in aluminium, nickel, cobalt (AlNiCo), shielded with high performance.
Ø D = 0.75 ÷ 1.50 inch L = 0.30 ÷ 0.41 inch

RMH
Flat magnets
with threaded pin
METRIC

ND

Zinc-plated steel insert with threaded pin. No-slip coating in thermoplastic elastomer (TPE), black or white colour, hardness 80 shore A.
Magnet in neodymium iron boron (NdFeB)
Ø D = 0.47 ÷ 3.46 inch L = 0.24 ÷ 0.33 inch

RMF
Flat magnets
with threaded hole
METRIC

ND

Zinc-plated steel insert with threaded blind hole. No-slip coating in thermoplastic elastomer (TPE), black or white colour, hardness 80 shore A.
Magnet in neodymium iron boron (NdFeB)
Ø D = 0.47 ÷ 3.46 inch L = 0.24 ÷ 0.33 inch

RMG
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)
Ø D = 0.47 ÷ 3.46 inch L = 0.24 ÷ 0.33 inch

11.1 Flat magnets

continues

RMI
Flat magnets
threaded or plain pass-through hole

ND

Zinc-plated steel insert with smooth hole. No-slip coating in thermoplastic elastomer (TPE), black or white colour, hardness 80 shore A.
Magnet in neodymium iron boron (NdFeB)
Ø D = 0.71 ÷ 2.60 inch L = 0.24 ÷ 0.33 inch

RMJ
Flat magnets
Smooth pass-through hole for countersunk-head screws

ND METRIC

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.
Ø D = 0.47 - 1.69 - 3.46 inch L = 0.24 ÷ 0.33 inch

RMH-P
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 = 0.87 ÷ 1.69 inch L = 0.22 ÷ 0.24 inch

RMW
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 = 0.87 ÷ 1.69 inch

RMS
Flat rectangular retaining magnets
with threaded holes
METRIC

ND

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 = 1.38 ÷ 4.33 inch

RMS-P
Flat rectangular retaining magnets
with threaded pin
METRIC

ND

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 = 1.38 ÷ 4.33 inch

RMS-D
Flat rectangular retaining magnets
with raised support base
METRIC

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).
L = 1.97 inch

RMT
Flat magnets

ND

Glass-fibre reinforced polyamide based (PA) technopolymer housing.
Magnet in neodymium iron boron (NdFeB)
Ø D = 0.71 ÷ 1.57 inch L = 0.31 ÷ 0.33 inch

RMT-DP
Flat magnets
with housing made out of coloured translucent technopolymer

ND

ABS based technopolymer housing, translucent, matte finish.
Magnet in neodymium iron boron (NdFeB)
Ø D = 0.98 inch L = 0.24 inch

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 = 0.47 inch

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 = 2.17 inch

RMT-T
Flat magnets
With handle, technopolymer

ND

Glass-fibre reinforced polyamide based (PA) technopolymer housing.
Execution with full handle or with eyelet.
Magnet in neodymium iron boron (NdFeB)
Ø D = 0.47 inch

11.2 Cylindric magnets

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Magnet materials
- AN - Aluminium-nickel-cobalt (5)
- SC - Samarium cobalt (1)
- ND - Neodymium-iron-boron (5)

Material
- Steel (5)
- Stainless steel (1)
- Brass (1)

RML
Cylindric magnets

AN ND

Zinc-plated steel or natural steel housing.
Magnet in aluminium, nickel, cobalt (AlNiCo) or neodymium iron boron (NdFeB), shielded with high performance.
Ø D = 0.16 ÷ 2.48 inch L = 0.79 ÷ 2.36 inch

RMM
Cylindric magnets

ND SC

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.
Ø D = 0.24 ÷ 1.26 inch L = 0.79 ÷ 1.57 inch

RMN
Cylindric magnets
threaded hole
METRIC

AN ND

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.
Ø D = 0.24 ÷ 2.48 inch L = 0.79 ÷ 65 inch

RMO
Cylindric magnets
smooth or threaded pin
METRIC

AN ND

Zinc-plated steel housing with smooth or threaded pin.
Magnet in aluminium, nickel, cobalt (AlNiCo) or neodymium iron boron (NdFeB), shielded with high performance.
Ø D = 0.24 ÷ 2.48 inch L = 0.79 ÷ 65 inch

RMP
Cylindric magnets
threaded hole
METRIC

AN

Zinc-plated or lacquered steel housing.
Fixing in position via threaded blind hole.
Magnet in aluminium, nickel, cobalt (AlNiCo), shielded with high performance.
Ø D = 0.49 ÷ 1.38 inch L = 0.63 ÷ 1.18 inch

RMQ
Cylindric magnets
pass-through hole

AN

Lacquered steel housing.
Fixing in position via smooth pass-through hole.
Magnet in aluminium, nickel, cobalt (AlNiCo), shielded with high performance.
Ø D = 0.51 ÷ 1.25 inch L = 0.39 ÷ 1.00 inch

RMU
Cylindric magnets
no-slip coating

INOX STAINLESS STEEL ND

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 = 0.39 ÷ 0.98 inch L = 0.55 ÷ 0.87 inch

11.3 Unshielded magnets

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Magnet materials

- AN - Aluminium-nickel-cobalt (1)
- SC - Samarium cobalt (3)
- ND - Neodymium-iron-boron (4)

RMA-US
Unshielded flat retaining magnets

SC ND

Magnet in ferrite, samarium cobalt (SmCo), or neodymium iron boron (NdFeB).
Ø D = 0.16 ÷ 4.25 inch L = 0.12 ÷ 0.83 inch

RMD-US
Unshielded flat retaining magnets
pass-through hole

SC ND

Unshielded flat retaining magnets with pass-through hole
Ø D = 0.47 ÷ 4.02 inch L = 0.12 ÷ 0.79 inch

RML-US
Unshielded cylindric retaining magnets

AN ND

Magnet in aluminium, nickel, cobalt (AlNiCo) or neodymium iron boron (NdFeB).
Ø D = 0.12 ÷ 1.34 inch L = 0.39 ÷ 3.15 inch

RMX-US
Unshielded flat retaining magnets

SC ND

Magnet in ferrite, neodymium iron boron (NdFeB), or samarium cobalt (SmCo), unshielded.
They are mostly attached by gluing.

11.4 Horseshoe magnets and profile magnets

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RMR
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

ND

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

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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 magnet
Threadings: M6 - M8 - M10 - M12 - M16

GN 913.6
Magnetic grub screw
Steel
METRIC

ND

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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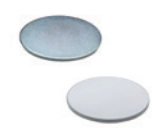
RMV
Disks for magnets
Steel or stainless steel
METRIC

INOX 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. Ø D = 0.47 ÷ 2.52 inch

RMY
Disks for magnets
adhesive tape



Disk with adhesive tape in zinc-plated steel or lacquered steel, white colour RAL 9003.
Ø D = 0.79 - 1.18 - 1.57 - 2.36 inch

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

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Material

- Technopolymer (14)
- Technopolymer - Steel (14)
- Technopolymer - Stainless steel (19)
- Steel (16)
- Stainless steel (29)

LX
Levelling feet
Technopolymer base, steel stem
METRIC
PA

Base with adjusting hexagon or screwdriver slot.
Bases Ø: 0.98 - 1.18 - 1.57 - 1.97 - 2.36 inch
Threadings: M6 - M8 - M10 - M12 - M16

LX-SST
Levelling feet
Technopolymer base, stainless steel stem
METRIC
INOX STAINLESS STEEL
PA

Base with adjusting hexagon or screwdriver slot.
Bases Ø: 0.98 - 1.18 - 1.57 - 1.97 - 2.36 inch
Threadings: M6 - M8 - M10 - M12 - M16

LX-HS
Levelling feet
Technopolymer base, steel stem with hexagon socket at the upper end
PA
METRIC

Base with adjusting hexagon or screwdriver slot.
Bases Ø: 0.98 - 1.18 - 1.57 - 1.97 - 2.36 inch
Threadings: M6 - M8 - M10 - M12 - M16

LSX.A
Levelling feet
Technopolymer base, steel stem
METRIC
PA

Base with or without no-slip SBR rubber disk.
Bases Ø: 1.02 - 1.18 - 1.57 inch
Threadings: M8 - M10

LS.A
Levelling feet
Technopolymer base, steel stem
INCH
METRIC
PA

Base with or without NBR rubber no-slip disk.
On request zinc-plated steel or AISI 304 stainless steel nut.
Bases Ø: 0.98 - 1.26 - 1.57 - 1.97 inch
Threadings: M8 - M10 - M12 - M14 - M16
Threadings inch: 3/8-16 - 1/2-13 - 5/8-11

LS.A-SST
Levelling feet
Technopolymer base, stainless steel stem
INCH
METRIC
INOX STAINLESS STEEL
PA

Base with or without NBR rubber no-slip disk.
AISI 304 stainless steel nut on request.
Bases Ø: 0.98 - 1.26 - 1.57 - 1.97 inch
Threadings: M8 - M10 - M12 - M14 - M16
Threadings inch: 3/8-16 - 1/2-13 - 5/8-11

LS.A-SST-VD
Levelling feet
Visually Detectable technopolymer base, stainless steel stem
INOX STAINLESS STEEL
VD
PA
METRIC

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: 0.98 - 1.26 - 1.57 - 1.97 - 2.36 inch Threadings: M8 - M10 - M12 - M14 - M16 - M20 - M24

LS.A-PP-SST
Levelling feet
Technopolymer base (polypropylene), stainless steel stem
INOX STAINLESS STEEL
PP
METRIC

Base with or without no-slip EPDM rubber disk.
AISI 304 stainless steel nut on request.
Bases Ø: 1.57 - 1.97 - 2.36 inch
Threadings: M8 - M10 - M12 - M14 - M16

12.1 Adjustable feet

continues

LS.A+SJF
Levelling feet
technopolymer base, SUPER-technopolymer joint

SUPER TECHNO POLYMER | PA | METRIC

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: 0.98 - 1.26 - 1.57 - 1.97 - 2.36 inch

LS.A-STP
Levelling feet
Technopolymer base, SUPER-technopolymer stem

SUPER TECHNO POLYMER | PA | METRIC

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: 0.98 - 1.26 - 1.57 - 1.97 - 2.36 inch
Threadings: M8 - M10 - M12

LSQ.A-SST
Levelling feet
Technopolymer base, stainless steel stem

INCH | METRIC

INOX STAINLESS STEEL | PA

Base with or without NBR rubber no-slip disk. AISI 304 stainless steel nut on request.
Bases Ø: 0.98 - 1.26 - 1.57 - 1.97 inch
Threadings: M8 - M10 - M12 - M14 - M16
Threadings inch: 1/2-13 - 5/8-11

LSQ.A-SST-VD
Levelling feet
Visually Detectable technopolymer base, stainless steel stem

INOX STAINLESS STEEL | VD | PA | METRIC

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: 0.98 - 1.26 - 1.57 - 1.97 - 2.36 inch
Threadings: M8 - M10 - M12 - M14 - M16 - M20

LV.A
Levelling feet
Technopolymer base, steel stem

INCH | METRIC

PA

Base with or without no-slip NBR synthetic rubber disk. Zinc-plated steel nut on request.
Bases Ø: 2.36 - 2.76 - 3.15 - 3.94 - 4.92 inch
Threadings inch: 1/2-13 - 5/8-11
Threadings: M8 - M10 - M12 - M14 - M16 - M20 - M24

LV.A-SST
Levelling feet
Technopolymer base, stainless steel stem

INCH | METRIC

INOX STAINLESS STEEL | PA

Base with or without no-slip NBR synthetic rubber disk. AISI 304 stainless steel nut on request.
Bases Ø: 2.36 - 2.76 - 3.15 - 3.94 - 4.92 inch
Threadings: M8 - M10 - M12 - M14 - M16 - M20 - M24
Threadings inch: 1/2-13 - 5/8-11

LV.A-SST-VD
Levelling feet
Visually Detectable technopolymer base, stainless steel stem

INOX STAINLESS STEEL | VD | PA | METRIC

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: 2.36 - 2.76 - 3.15 - 3.94 - 4.92 inch
Threadings: M8 - M10 - M12 - M14 - M16 - M20 - M24

LV.A-ESD-C
Levelling feet
ESD conductive technopolymer base, steel stem

ESD | METRIC

Base with or without no-slip NBR synthetic rubber disk. Zinc-plated steel nut on request.
Bases Ø: 2.36 - 2.76 - 3.15 - 3.94 - 4.92 inch
Threadings: M8 - M10 - M12 - M14 - M16 - M20 - M24

LV.A-SST-ESD-C
Levelling feet
ESD conductive technopolymer base, stainless steel stem

INOX STAINLESS STEEL | ESD | METRIC

Base with or without no-slip NBR synthetic rubber disk. AISI 304 stainless steel nut on request.
Bases Ø: 2.36 - 2.76 - 3.15 - 3.94 - 4.92 inch
Threadings: M8 - M10 - M12 - M14 - M16 - M20 - M24

LV.A+SJF
Levelling feet
technopolymer base, SUPER-technopolymer joint

SUPER TECHNO POLYMER | PA | METRIC

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: 2.36 - 2.76 - 3.15 - 3.94 - 4.92 inch

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12.1 Adjustable feet
continues

LV.A-STP
Levelling feet
Technopolymer base, SUPER-technopolymer stem

SUPER TECHNOPOLYMER · PA · METRIC

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: 3.15 - 3.94 inch
Threadings: M8 - M10 - M12

LVQ.A-SST
Levelling feet
Technopolymer base, stainless steel stem

INCH · METRIC

INOX STAINLESS STEEL · PA

Base with or without no-slip NBR synthetic rubber disk. AISI 304 stainless steel nut on request.
Bases Ø: 2.36 - 2.76 - 3.15 - 3.94 inch
Threadings: M8 - M10 - M12 - M14 - M16 - M20
Threadings inch: 5/8-11 - 3/4-10

LVQ.A-SST-VD
Levelling feet
Visually Detectable technopolymer base, stainless steel stem

INOX STAINLESS STEEL · VD · PA · METRIC

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: 2.36 - 2.76 - 3.15 - 3.94 inch
Threadings: M8 - M10 - M12 - M14 - M16 - M20

LV.F
Levelling feet for ground mounting
Technopolymer base, steel stem

PA · INCH · METRIC

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: 3.15 - 3.94 - 4.92 inch
Threadings: M8 - M10 - M12 - M14 - M16 - M20 - M24.
Threadings inch: 3/8-16 - 1/2-13 - 5/8-11 - 3/4-10

LV.F-SST
Levelling feet for ground mounting
Technopolymer base, stainless steel stem

INOX STAINLESS STEEL · PA · INCH · METRIC

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: 3.15 - 3.94 - 4.92 inch Threadings: M8 - M10 - M12 - M14 - M16 - M20 - M24. Threadings inch: 3/8-16 - 1/2-13 - 5/8-11 - 3/4-10 - 3/4-11 - 3/4-12

LV.F-SST-VD
Levelling feet for ground mounting
Visually Detectable technopolymer base, stainless steel stem

INOX STAINLESS STEEL · VD · PA · METRIC

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: 3.15 - 3.94 - 4.92 inch
Threadings: M8 - M10 - M12 - M14 - M16 - M24

LV.F-ESD-C
Levelling feet for ground mounting
ESD conductive technopolymer base, steel stem

ESD · PA · METRIC

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: 3.94 inch
Threadings: M8 - M10 - M12 - M16

LV.F-SST-ESD-C
Levelling feet for ground mounting
ESD conductive technopolymer base, stainless steel stem

INOX STAINLESS STEEL · ESD · PA · METRIC

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: 3.94 inch
Threadings: M8 - M10 - M12 - M16

LV.F-PP-SST
Levelling feet for ground mounting
Technopolymer base (polypropylene), stainless steel stem

INOX STAINLESS STEEL · PA · METRIC

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: 3.15 - 3.94 inch
Threadings: M16 - M20 - M24

LV.F+SJF
Levelling feet for ground mounting
technopolymer base, SUPER-technopolymer joint

SUPER TECHNOPOLYMER · PA · METRIC

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: 2.36 - 2.76 - 3.15 - 3.94 - 4.92 inch

12.1 Adjustable feet

continues

LV.F-STP
Levelling feet for ground mounting
Technopolymer base, SUPER-technopolymer stem

SUPER TECHNO POLYMER · PA · METRIC

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: 2.36 - 2.76 - 3.15 - 3.94 inch Threadings: M8 - M10 - M12

LVQ.F-SST
Levelling feet for ground mounting
Technopolymer base, stainless steel stem

INOX STAINLESS STEEL · PA · INCH · METRIC

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: 2.36 - 3.15 inch
Threadings: M16- M20 - M24
Threadings inch: 5/8-11 - 3/4-10

LVQ.F-SST-VD
Levelling feet for ground mounting
Visually Detectable technopolymer base, stainless steel stem

INOX STAINLESS STEEL · VD · PA · METRIC

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: 3.15 - 3.94 inch
Threadings: M16 - M20 - M24

LV.FO
Levelling feet for ground mounting
Technopolymer base, steel stem

PA · METRIC

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: 2.36 - 3.15 inch
Threadings: M8 - M10 - M12 - M16

LV.FO-SST
Levelling feet for ground mounting
Technopolymer base, stainless steel stem

INOX STAINLESS STEEL · PA · METRIC

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: 2.36 - 3.15 inch
Threadings: M8 - M10 - M12 - M16

LV.FO+SJF
Levelling feet for ground mounting
technopolymer base, SUPER-technopolymer joint

SUPER TECHNO POLYMER · PA · METRIC

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: 2.36 - 3.15 inch

LV.FO-STP
Levelling feet for ground mounting
Technopolymer base, SUPER-technopolymer stem

SUPER TECHNO POLYMER · PA · METRIC

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: 2.36 - 3.15 inch Threadings: M8 - M10 - M12

LVQ.FO-SST
Levelling feet for ground mounting
Technopolymer base, stainless steel stem

INOX STAINLESS STEEL · PA · METRIC

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: 2.36 - 3.15 inch
Threadings: M8 - M10 - M12 - M16

LV.A-125-ACV
Levelling feet
Technopolymer base, steel stem

METRIC

PA

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: 4.92 inch.
Threaded stem: M20 - M24 - M30

LV.F-125-ACV
Levelling feet for ground mounting
Technopolymer base, steel stem

PA · METRIC

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: 4.92 inch
Threaded stem: M20 - M24 - M30

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12.1 Adjustable feet
continues

LV.A-125-APS
Levelling feet
Technopolymer base, steel stem

METRIC

PA

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: 4.92 inch
Threaded stem: M20 - M24 - M30

LV.F-125-APS
Levelling feet for ground mounting
Technopolymer base, steel stem

PA METRIC

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: 4.92 inch
Threaded stem: M20 - M24 - M30

LV.A-ELK
Levelling feet
Technopolymer base and knob, steel stem

METRIC

PA

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: 2.76 - 3.15 inch Stem threading: M16

NT.
Nuts for levelling feet
Steel or stainless steel

INCH METRIC

INOX

Threadings: M8 - M10 - M12 - M14 - M16 - M20 - M24 - M30
Threadings inch: 3/8-16 - 1/2-13 - 5/8-11 - 3/4-10

SM.
Stems for levelling feet
Steel or stainless steel

INCH METRIC

INOX

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. Threadings inch: 3/8-16 - 1/2-13 - 5/8-11 - 3/4-10

SMQ-SST
Stems for levelling feet
Stainless steel

INCH METRIC

INOX

Threaded stem with ball joint with adjusting square.
Threadings: M8 - M10 - M12 - M16 - M20 - M24
Threadings inch: 1/2-13 - 5/8-11 - 3/4-10

STP
Stems for levelling feet
SUPER-technopolymer

SUPER TECHNO POLYMER PA METRIC

Threaded stem with ball joint and adjustment hexagon in SUPER-technopolymer.
Threadings: M8 - M10 - M12

SJF
Ball joint
for levelling feet, SUPER-Technopolymer

SUPER TECHNO POLYMER METRIC

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: 0.98 - 1.26 - 1.57 - 1.97 inch

BASE LV.A-ESD-C - LV.F-ESD-C
Levelling element bases
ESD conductive technopolymer

ESD PA

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: 2.36 - 2.76 - 3.15 - 3.94 - 4.92 inch

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: 1.57 - 1.97 - 2.36 - 3.15 - 3.94 inch

BASE LS.A-VD - LV.A-VD - LV.F-VD
Bases for levelling feet
Visually Detectable technopolymer

VD

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: 0.98 - 1.26 - 1.57 - 1.97 - 2.36 - 2.76 - 3.15 - 3.94 - 4.92 inch

GN 6311.4
Levelling feet
Steel base and stem

METRIC

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: 1.97 - 2.36 inch
Threadings: M10 - M12 - M16 - M20

GN 6311.6
Levelling feet
Stainless steel base and stem

METRIC

INOX STAINLESS STEEL

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: 1.97 - 2.36 inch
Threadings: M10 - M12 - M16 - M20

LM
Levelling feet
Zinc-plated steel

METRIC

Zinc-plated steel joint with hole or threaded stem.
Nut in zinc-plated steel.
Bases Ø: 0.98 - 1.26 - 1.57 - 1.97 - 2.36 inch
Threadings: M8 - M10 - M12 - M16 - M20 - M24

LM-SST
Levelling feet
Stainless steel

METRIC

INOX STAINLESS STEEL

AISI 303 stainless steel joint with hole or threaded stem.
AISI 304 stainless steel nut.
Bases Ø: 0.98 - 1.26 - 1.57 - 1.97 - 2.36 inch
Threadings: M8 - M10 - M12 - M16 - M20 - M24

LM-AC
Levelling feet
With bearing protection, steel

METRIC

Zinc-plated steel joint with hole or threaded stem.
Nut in zinc-plated steel.
Technopolymer bearing protection.
Bases Ø: 0.98 - 1.26 - 1.57 - 1.97 - 2.36 inch
Threadings: M8 - M10 - M12 - M16 - M20 - M24

LM-SST-AC
Levelling feet
With bearing protection, stainless steel

METRIC

INOX STAINLESS STEEL

AISI 303 stainless steel joint with hole or threaded stem.
AISI 304 stainless steel nut.
Technopolymer bearing protection.
Bases Ø: 0.98 - 1.26 - 1.57 - 1.97 - 2.36 inch
Threadings: M8 - M10 - M12 - M16 - M20 - M24

LM-TR
Levelling feet
With non-slip disk, steel

METRIC

Zinc-plated steel joint with hole or threaded stem. Nut in zinc-plated steel.
No-slip coating in thermoplastic elastomer (TPE).
Bases Ø: 0.98 - 1.26 - 1.57 - 1.97 - 2.36 inch
Threadings: M8 - M10 - M12 - M16 - M20 - M24

LM-SST-TR
Levelling feet
With non-slip disk, stainless Steel

METRIC

INOX STAINLESS STEEL

AISI 303 stainless steel joint with hole or threaded stem. AISI 304 stainless steel nut.
No-slip coating in thermoplastic elastomer (TPE).
Bases Ø: 0.98 - 1.26 - 1.57 - 1.97 - 2.36 inch
Threadings: M8 - M10 - M12 - M16 - M20 - M24

12.1 Adjustable feet
continues

GN 36
Levelling feet
without central fastening hole, steel
METRIC

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: 3.15 - 3.94 - 4.92 - 6.30 - 7.87 inch
Threadings: M20 - M24 - M30 - M36 - M42

GN 36.1
Base
without central fastening hole, adjustable feet GN 36, steel
METRIC

Steel base, with or without no-slip disk and O-ring.
Vibration-damping NBR rubber disk, NBR rubber O-ring.
Bases Ø: 3.15 - 3.94 - 4.92 - 6.30 - 7.87 inch

GN 37
Levelling feet
with central fastening hole, steel
METRIC

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: 3.15 - 3.94 - 4.92 - 6.30 - 7.87 inch
Threadings: M20 - M24 - M30 - M36 - M42

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: 3.15 - 3.94 - 4.92 - 6.30 - 7.87 inch

LMP.
Levelling feet
Steel base and stem
METRIC

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: 1.57 - 1.97 - 2.36 - 3.15 inch
Threadings: M8 - M10 - M12 - M16 - M20 - M24

LMP-SST - LMP-A4
Levelling feet
Stainless steel base and stem
METRIC
INOX STAINLESS STEEL

Base with threaded blind joint in AISI 304 stainless steel or base and nut in AISI 304 stainless steel, threaded stem in AISI 303 stainless steel. LMP-SST-TR with elastomer no-slip coating. LMP-SSST-TV with rubber no-slip coating (NBR).
Bases Ø: 1.57 - 1.97 - 2.36 - 3.15 inch
Threadings: M8 - M10 - M12 - M16 - M20 - M24

LMP.F
Levelling feet for ground mounting
Steel base and stem
METRIC

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: 2.36 - 3.15 inch
Threadings: M16- M20 - M24

LMP.F-SST - LMP.F-A4
Levelling feet for ground mounting
Stainless steel base and stem
INOX STAINLESS STEEL
METRIC

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 303 stainless steel. LMP.F-SST-TR with elastomer no-slip coating. LMP.F-SSST-TV with rubber no-slip coating.
Bases Ø: 1.97 - 2.36 - 3.15 inch
Threadings: M8 - M10 - M12 - M16 - M20

LMP.FF
Levelling feet for ground mounting
Steel base and stem
METRIC

Base with 2 holes for ground mounting, articulation or threaded stem with Zinc-plated steel nut.
AISI 304 stainless steel assembly screws.
Bases Ø: 1.57 - 1.97 - 2.36 - 3.15 inch
Threadings: M8 - M10 - M12 - M16

LMP.FF-SST - LMP.FF-A4
Levelling feet for ground mounting
Stainless steel base and stem
METRIC
INOX STAINLESS STEEL

Base with 2 holes for ground fixing, joint or threaded stem with nut in AISI 304 stainless steel.
AISI 304 stainless steel assembly screws.
Bases Ø: 1.57 - 1.97 - 2.36 - 3.15 inch
Threadings: M8 - M10 - M12 - M16

12.1 Adjustable feet

continues

LMD.F
Levelling feet for ground mounting
Base with slotted holes, steel joint or stem
METRIC

Base with one or two slotted pass-through holes, 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: 3.15 inch
Threadings: M8 - M10 - M12 - M16 - M20 - M24

LMD.F-SST
Levelling feet for ground mounting
Base with slotted holes, stainless steel joint or stem
INOX STAINLESS STEEL METRIC

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: 3.15 inch
Threadings: M8 - M10 - M12 - M16 - M20 - M24

LMR.
Levelling feet
Steel or stainless steel base and stem
METRIC
INOX STAINLESS STEEL

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: 1.97 - 2.36 - 3.15 - 3.94 - 4.72 inch
Threadings: M8 - M10 - M12 - M16 - M20 - M24

LMR.F
Levelling feet for ground mounting
Steel or stainless steel base and stem
INOX STAINLESS STEEL METRIC

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: 1.97 - 2.36 - 3.15 - 3.94 inch
Threadings: M8 - M10 - M12 - M16 - M20 - M24

LMY.
Levelling feet
Stainless steel base and stem
METRIC
INOX STAINLESS STEEL

Ball joint with threaded hole or stem.
Base with or without NBR rubber no-slip disk. Screw with adjusting hexagon, hexagonal socket and flat faces.
Bases Ø: 3.15 - 3.94 - 4.72 inch
Threadings: M8 - M10 - M12 - M16 - M20 - M24

LMY.F
Levelling feet for ground mounting
Stainless steel base and stem
INOX STAINLESS STEEL METRIC

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: 3.15 - 3.94 - 4.72 inch
Threadings: M8 - M10 - M12 - M16 - M20 - M24

LMRS.
Levelling feet
Stainless steel base and stem
METRIC
INOX STAINLESS STEEL

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: 2.36 - 3.15 - 3.94 inch
Threadings: M16 - M20 - M24

GN 17
Levelling feet
Stainless Steel, FDA compliant
METRIC
INOX STAINLESS STEEL

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: 2.36 - 3.15 - 3.94 - 4.72 inch
Threadings: M8 - M10 - M12 - M16 - M20 - M24 - M30

GN 18
Levelling feet
AISI 316L stainless steel, FDA compliant
METRIC
INOX STAINLESS STEEL

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: 2.36 - 3.15 - 3.94 - 4.72 inch
Threadings: M8 - M10 - M12 - M16 - M20 - M24

GN 19
Levelling feet
AISI 316L stainless steel, Hygienic Design
METRIC
INOX STAINLESS STEEL HD

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: 3.15 - 3.94 - 4.72 inch
Threadings: M12 - M16 - M20 - M24

12.1 Adjustable feet
continues

LM-HD-SST
Levelling feet
Hygienic Design
Stainless Steel,
Hygienic Design

INOX STAINLESS STEEL · HD · METRIC

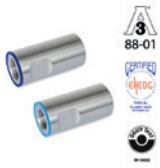
Edit sentence as below:
Bases Ø: 2.36 - 3.15 - 3.94 - 4.72 inch
Threadings: M12 - M16 - M20 - M24

LM.F-HD-SST
Levelling feet
Hygienic Design
Stainless Steel,
Hygienic Design

INOX STAINLESS STEEL · HD · METRIC

Edit sentence as below:
For use in environments that require high levels of hygiene.
Bases Ø: 3.15 - 3.94 - 4.72 inch
Threadings: M12 - M16 - M20 - M24

GN 20.1
Stainless Steel-Cover sleeves
Stainless steel



INOX STAINLESS STEEL · HD · METRIC

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

INOX STAINLESS STEEL · HD · METRIC

Threadings: M4 - M5 - M6 - M8 - M10 - M12 - M16 - M20

NTR-HD-SST
Hygienic Design Screws
with low profile head,
AISI 316L stainless steel

INOX STAINLESS STEEL · HD · METRIC

Threadings: M4 - M5 - M6 - M8 - M10 - M12 - M16 - M20

GN 1582
Hygienic Design retained screws
with low profile head,
AISI 316L stainless steel

INOX STAINLESS STEEL · HD · METRIC

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

12.2 End caps and connectors

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Material
- Technopolymer (16)
- Steel (1)
- Stainless steel (1)

NDX.Q
Square end-caps for tubes
Technopolymer

INCH · METRIC

PA

Brass boss, threaded pass-through hole.
Threadings: M8 - M10 - M12 - M14 - M16 - M20 - M24
Threadings inch: 3/8-16 - 1/2-13 - 5/8-11 - 3/4-10

NDX.T
Round end-caps for tubes
Technopolymer

INCH · METRIC

PA

Brass boss, threaded pass-through hole.
Threadings: M8 - M10 - M12 - M14 - M16 - M20 - M24
Threadings inch: 3/8-16 - 1/2-13 - 5/8-11 - 3/4-10

ND.Q
Square end-caps for tubes
heavy loads,
technopolymer

PA · METRIC

Nickel-plated brass boss, threaded pass-through hole.
Threadings: M8 - M10 - M12 - M16 - M20

NDL.Q
End-caps for square tubes
Technopolymer

METRIC

PA

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 - M16

12.2 End caps and connectors
continues

NDL.T
End-caps for round tubes
Technopolymer
METRIC

PA

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
METRIC

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
Square tube connectors
Technopolymer and steel

INOX STAINLESS STEEL 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
End-caps for square tubes
with adjustable feet, technopolymer

PA METRIC

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 METRIC

End-caps for round tubes with adjustable height levelling element
Threadings: M12 - M16 - M22

NDE.Q
Square tube expander end-caps
Technopolymer
METRIC

PA

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

NDE.T
Round tube expander end-caps
Technopolymer
METRIC

PA

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
Ribbed tube end plugs
Polyethylene
METRIC

PE

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

PE

Insertion at the ends of the tubes can be done by hand or with a mallet.
Diameters: from 0.16 to 4.50 inch

12.2 End caps and connectors
continues

NCD
Protection covers for nuts and bolts
Polyethylene

PE

Black or chrome, matte finish.
The coupling on nuts or bolts can be made either by hand or by a mallet.
Internal diameters: from 0.27 to 1.80 inch

RTE
Round tube expander connectors
Technopolymer

PA

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
Technopolymer

PA

The two parts of the connector are connected to each other by means of two pins which are housed in special counter-seats.

12.3 Panel support brackets

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Material
- Technopolymer (3)
- Stainless steel (1)
- Die-cast zinc alloy (2)

PC
Panel support clamps
Technopolymer

PROFILE COMPATIBLE ERGOSTYLE® PA

Thermoplastic elastomer pads, overmoulded.
Technopolymer compensation shims for adapting the support clamp to panels of varying thickness.
The panel assembly into the clamp require no drilling.

PPR
Support clamp for panels and electro-welded mesh
mounting of the panel without drilling, SUPER-Technopolymer

INOX STAINLESS STEEL SUPER TECHNO POLYMER PA

Standard executions: for the mounting of panels or electro-welded mesh, with or without vibration-damping pads.
For square profiles of 0.98, 1.18 inch or 1".
Safety in accordance with ISO 13857.

GN 939
Panel support clamps
for Glass and Plastic Panels, die-cast zinc alloy

PROFILE COMPATIBLE

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.

GN 938.1
T-Nuts
for Panel Support Clamps GN 939

PROFILE COMPATIBLE

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.

APC
Adapter for PC support clamp for round tubes
for PC support clamp, technopolymer

PA METRIC

Kit for installation of PC support clamp on round tubes (max. thickness = 0.08 inch).
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.

12.4 Connecting clamps

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Material

- Technopolymer (4)
- Steel (3)
- Stainless steel (9)
- Aluminium (13)
- Die-cast zinc alloy (2)
- Zinc (1)

LMTF
Threaded connections
Aluminum
METRIC

Zinc-plated steel casting, epoxy resin coating. They are generally used in connection with 30/40 inch aluminium profiles, to allow elements such as levelling feet to be assembled in different positions.
Threadings: M6 - M8 - M10 - M12

RH-GZ
Simple or extensible feet
Zinc alloy

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).

MSR.
Connecting clamps
Technopolymer and aluminium
PA

Support base with screw-covers in standard colours. Locking by means of M6 cap screws. Aluminium profile tubes in standard lengths from 3.94 to 78.74 inch. They allow the positioning of photocells or other devices on the packaging lines.

MSX.
Connecting clamps
Technopolymer
INOX
PA

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.

MSM-RM
Magnetic bases
for MSM connecting clamps, steel and rubber
METRIC
ND

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: 0.31 - 0.39 - 0.47 - 0.59 - 0.63 - 0.79 inch

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: 0.31 - 0.39 - 0.47 - 0.59 - 0.63 - 0.79 inch

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

Black or natural colour.
Clamping by means of cylindrical head screws with AISI 304 stainless steel hexagon socket.
Holes Ø: 0.31 - 0.39 - 0.47 - 0.59 - 0.63 - 0.79 inch

MSM-H
Connecting clamps
Aluminum

Black or natural colour.
Clamping by means of cylindrical head screws with AISI 304 stainless steel hexagon socket.
Holes Ø: 0.31 - 0.39 - 0.47 - 0.59 - 0.63 - 0.79 inch

MSM-HR
Pivoting connecting clamps
Aluminum

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: 0.31 - 0.39 - 0.47 - 0.59 - 0.63 - 0.79 inch

MSM-I
Connecting clamps
Aluminum

Black or natural colour.
Holes Ø: 0.31 - 0.39 - 0.47 - 0.59 - 0.63 - 0.79 inch

MSM-PH
Connecting clamps
Aluminum
METRIC

Black or natural colour.
Clamping by means of cylindrical head screws with AISI 304 stainless steel hexagon socket.
Holes Ø: 0.31 - 0.39 - 0.47 - 0.59 - 0.63 - 0.79 inch

MSM-LA
Sensor holders
Stainless steel

INOX 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 grub screws.

MSM-LB
Connecting plates
Stainless steel

INOX 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-P
Flanged bolts
Steel

They are used in combination with connecting clamps with the function of support foot or flange.
Holes Ø: 0.31 - 0.39 - 0.47 - 0.59 - 0.63 - 0.79 inch

MSM-Q
Square connecting tubes
Aluminum

Without graduations or with laser-etched precision graduations (mm).
Sections: 0.39 - 0.47 - 0.63 inch

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: 0.31 - 0.39 - 0.47 - 0.59 - 0.63 - 0.79 inch

12.4 Connecting clamps

continues

MSM-T
Connecting tubes and bars
Stainless steel

INOX

Without graduations or with laser-etched precision graduations (mm).
Bar for Ø = 0.31 and 0.39 inch; tube for Ø = 0.47, 0.63 and 0.79 inch

MSM-TL
Connectors
Stainless steel

INOX

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: 0.31 - 0.39 inch

MSM-TS
Connectors
Stainless steel

INOX

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
METRIC

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
METRIC

INOX

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 alloy and stainless steel

INOX METRIC

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: 1.18 - 1.77 inch

GN 511.1
Clamping kit for pivoting connecting clamps
Zinc alloy and stainless steel

INOX METRIC

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: 0.63 -20 - 0.98 - 1.18 - 1.77 inch

12.5 Conveyor components

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BAG2-120
Conveyor bipod support base
two arms, Technopolymer

INOX PA

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: 1.65 - 1.89 - 1.97 - 2.36 inch

BAG2-180
Conveyor bipod support base
two arms, Technopolymer

INOX PA

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: 1.65 - 1.89 - 1.97 - 2.36 inch

12.5 Conveyor components

continues

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Material

- Technopolymer (22)
- Steel (4)
- Stainless steel (29)
- Aluminium (4)
- Technopolymer - Stainless steel (10)

BAS2
Conveyor bipod support base
two arms, Technopolymer

INOX STAINLESS STEEL | PA

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 Ø: 1.65 - 1.89 - 2.36 inch

BAS3
Conveyor bipod support base
three arms, Technopolymer

INOX STAINLESS STEEL | PA

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 Ø: 1.65 - 1.89 - 1.97 - 2.36 - 1.77x1.77 inch

GC.
Connection joints
Technopolymer

INOX STAINLESS STEEL | PA

M8 cylindrical-head screws with hexagon socket and zinc-plated or AISI 304 stainless steel nuts.
Tube housing holes Ø: 1.65 - 1.89 - 1.97 - 2.36 - 1.77x1.77 inch

MPG
Guide rail clamps
Technopolymer

INOX STAINLESS STEEL | PA

AISI 304 stainless steel cylindrical head screws with hexagon socket, nickel-plated brass nuts.
Housing for round, trapezoidal or rectangular guides.

MPG-2
Guide rail clamps
Technopolymer and stainless steel

INOX STAINLESS STEEL | PA

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: 0.47 - 0.55 - 0.63 inch

MPG-S
Guide rail clamps
Technopolymer and stainless steel

INOX STAINLESS STEEL | PA

With or without AISI 304 stainless steel pin.
AISI 304 stainless steel screws and clamping nuts.
Housing for round, trapezoidal or rectangular guides.
Pin Ø: 0.47 - 0.55 - 0.63 inch

MPG-P
Guide fixing pins
Stainless steel

INOX 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 guide rail brackets.

SPF.
Guide rail brackets
for linear positioning, technopolymer

INOX STAINLESS STEEL | PA

AISI 304 stainless steel eye screw and washer.
Technopolymer clamping knob and nickel-plated brass hexagonal end for clamping by means of a key, threaded hole. Without knob, with AISI 304 stainless steel clamping nut.
Toothed clamping element retainer holes Ø: 0.47 - 0.55 - 0.63 inch

SPR.
Guide rail brackets
for linear and angular positioning, technopolymer

INOX STAINLESS STEEL | PA

Eye screw, AISI 304 stainless steel nut and washer.
With or without support edge.
Pin Ø: 0.47 - 0.55 - 0.63 inch

SPR.V
Guide rail brackets
for linear and angular positioning, technopolymer

INOX STAINLESS STEEL | PA

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: 0.47 - 0.55 - 0.63 inch

12.5 Conveyor components

continues

TSLA.
Side mounting top brackets
Technopolymer

INOX STAINLESS STEEL · PA

Zinc-plated or AISI 304 stainless steel M10 screws, nuts and washers.
Tube housing holes Ø: 1.89 inch

TSLB.
Side mounting top brackets
Technopolymer

INOX STAINLESS STEEL · PA

Zinc-plated or AISI 304 stainless steel M10 screws, nuts and washers.
Tube housing holes Ø: 1.65 - 1.89 - 2.36 - 1.77 inch

TTA.
Support headers
Technopolymer

INOX STAINLESS STEEL · PA

Zinc-plated or AISI 304 stainless steel M10 screws, nuts and washers.
Tube housing hole Ø: 1.89 inch

TTB.
Support headers
Technopolymer

INOX STAINLESS STEEL · PA

Zinc-plated or AISI 304 stainless steel M10 screws, nuts and washers.
Tube housing holes Ø: 1.65 - 1.89 - 1.97 - 2.36 - 1.77 inch

GLA-1
Roller side guides
Technopolymer, aluminium, stainless steel

INOX STAINLESS STEEL · POM · PE

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

INOX STAINLESS STEEL · POM · PE

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.

GCA-2
Roller central guides
Technopolymer, aluminium, stainless steel

INOX STAINLESS STEEL · POM · PE

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.

GCA-4
Roller central guides
Technopolymer, aluminium, stainless steel

INOX STAINLESS STEEL · POM · PE

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.

MPG-V
Hammer head screw
For GLA, GCA, PRA and PRB guides, steel or stainless steel

INOX STAINLESS STEEL

Used to join the different types of side guides to the MPG-P fixing pins.

TGL
End brackets for side guides
Technopolymer, stainless steel

INOX STAINLESS STEEL · PA · METRIC

AISI 304 stainless steel screw and nut.
It is used as a closure at the ends of the GLA-1 side guides.

12.5 Conveyor components
continues

BDG
Connecting plate for guides
for GLA and GCA, steel
METRIC

Edit the sentence below
Zinc-plated steel or AISI 304 stainless steel bar and screws.

PGL-1
Separation block for side guides
for GLA-1, Technopolymer, stainless steel
INOX STAINLESS STEEL PE METRIC

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
INOX STAINLESS STEEL PE METRIC

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
INOX STAINLESS STEEL PE METRIC

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
INOX STAINLESS STEEL PE METRIC

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
Technopolymer, steel
PA

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, steel

Zinc-plated steel.
Clamps for one, two, three, or four-way roller guides.

GLD-SST
Roller side guides
Technopolymer, stainless steel
INOX STAINLESS STEEL PA

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
INOX STAINLESS STEEL

AISI 304 Stainless Steel
Clamps for one, two, three, or four-way roller guides.

GLB-1
Articulated side guides
Technopolymer, stainless steel
INOX STAINLESS STEEL POM PE

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

INOX STAINLESS STEEL · POM · PE

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.

PRA-GLB
Profile for side guides
for GLB, stainless steel

INOX 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.

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
Linear guide rails
Flat profile, technopolymer, stainless steel

INOX 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.

GLP-HT
Linear guide rail, high temperature
Flat profile, technopolymer, stainless steel

INOX STAINLESS STEEL · HT · PTFE

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.

GLR
Linear guide rail
Round profile R20, technopolymer, stainless steel

INOX STAINLESS STEEL · HMWPE

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.

GLS
Linear guide rail
Shaped profile, technopolymer, stainless steel

INOX 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.

GLT
Linear guide rail
Round profile R7, technopolymer, stainless steel

INOX STAINLESS STEEL · HMWPE

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.

GLC
Wide guide rails
Shaped profile, technopolymer

HMWPE

With a 20 or 40 mm stop.
They serve to guide products with various vertical dimensions laterally on the conveyor belts.

12.6 Support bearings

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Material

- Technopolymer (4)

UCF
Support bearings
square flanged, technopolymer
INCH METRIC
PA PP

AISI 304 stainless steel bushings and washers.
High quality chrome steel bearing.
Technopolymer closed or drilled cover for pass-through shafts.
Shaft diameters: 0.98 - 1.18 inch

UCFB
Side flanged support bearings
Technopolymer
INCH METRIC
PA PP

AISI 304 stainless steel bushings and washers.
High quality chrome steel bearing.
Technopolymer closed or drilled cover for pass-through shafts.
Shaft diameters: 0.98 - 1.18 inch

UCFL
Oval flanged support bearings
Technopolymer
INCH METRIC
PA PP

AISI 304 stainless steel bushings and washers.
High quality chrome steel bearing.
Technopolymer closed or drilled cover for pass-through shafts.
Shaft diameters: 0.98 - 1.18 inch

UCP
Oval flanged support bearings for shafts at 90°
Technopolymer
PA PP INCH METRIC

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: 0.98 - 1.18 inch

12.7 Angle brackets for profile structures

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Material

- Technopolymer (1)
- Steel (1)
- Aluminium (3)

SQT.
Angle brackets for profile structures
Technopolymer
PROFILE COMPATIBLE PA

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: 1.57 - 1.69 inch

SQMA
Angle brackets for profile structures
Aluminum
PROFILE COMPATIBLE

Natural colour or black or grey epoxy resin coating. Technopolymer closing cap.
Assembly by means of zinc-plated steel screws, nuts and washers.
Dimensions: 1.18 - 1.57 - 1.77 inch

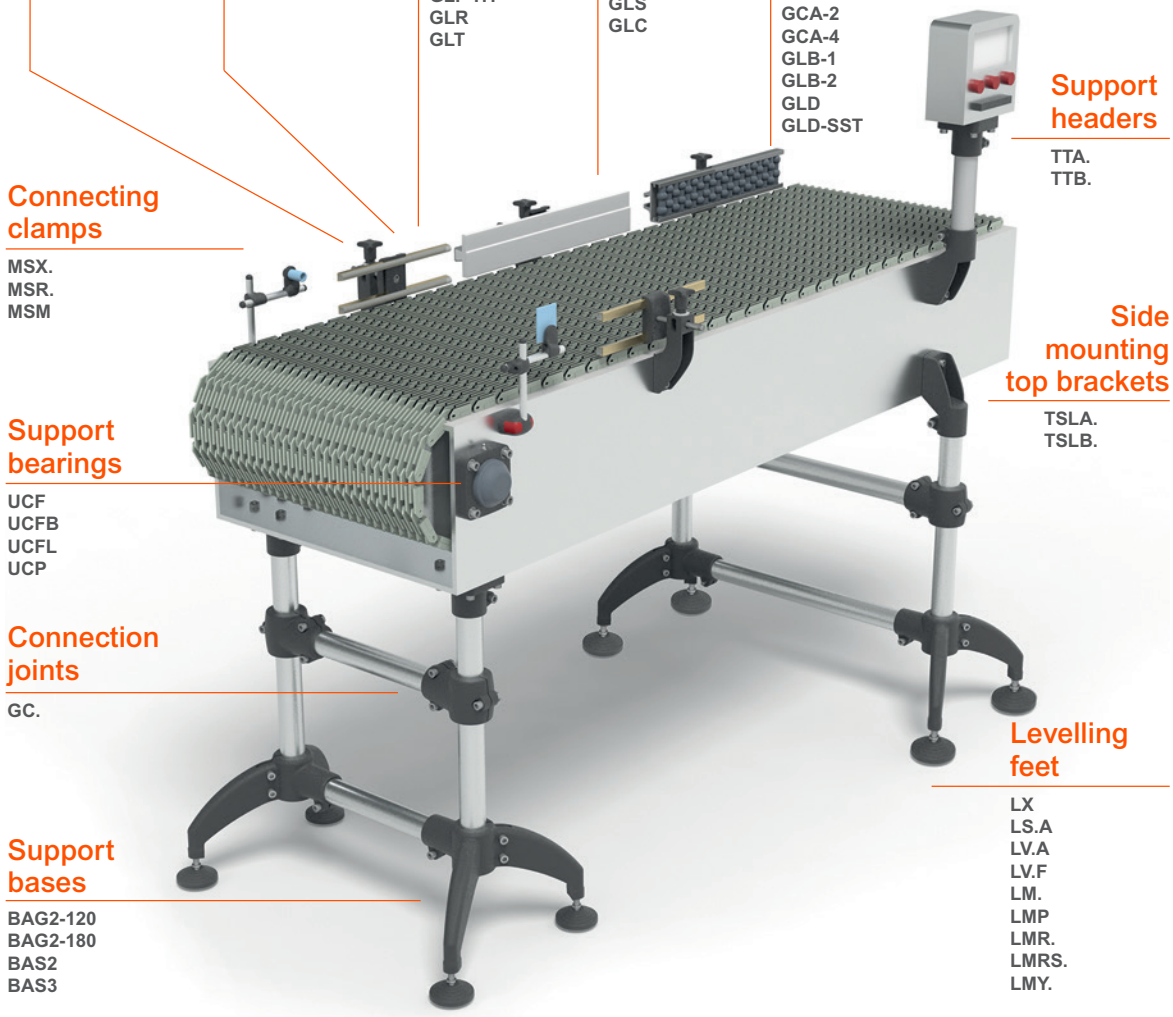
SQMF
Angle brackets for profile structures
Aluminum
PROFILE COMPATIBLE

Natural colour or black or grey epoxy resin coating. Technopolymer closing cap.
Mounting by means of zinc-plated steel screws and inserts.
Dimensions: 1.18 - 1.57 inch

GN 970
Brackets
Aluminium or steel
METRIC

Drawn, sharp-edged black-oxide steel or aluminium, matte finish.
Standard versions with or without holes, or with holes and slotted holes.

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.



Guide rail brackets
SPF.
SPR.
SPR.V

Guide rail clamps
MPG
MPG-2
MPG-S

Linear guide rails
GLP
GLP-HT
GLR
GLT

Linear guide rails shaped profile
GLS
GLC

Roller side and central guide rails
GLA-1
GLA-2
GCA-2
GCA-4
GLB-1
GLB-2
GLD
GLD-SST

Support headers
TTA.
TTB.

Connecting clamps
MSX.
MSR.
MSM

Side mounting top brackets
TSLA.
TSLB.

Support bearings
UCF
UCFB
UCFL
UCP

Connection joints
GC.

Levelling feet
LX
LS.A
LV.A
LV.F
LM.
LMP
LMR.
LMRS.
LMY.

Support bases
BAG2-120
BAG2-180
BAS2
BAS3

13 Hinges and accessories

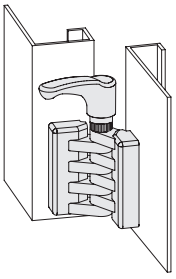
A wide range of engineering plastic and metal hinges, including technopolymer, SUPER-Technopolymer, aluminium, and stainless steel, available with various assembly options, rotation angles, load capacities, and integrated safety switches.

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

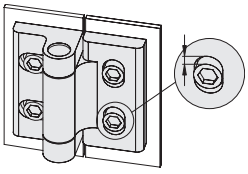
Designed to hold doors or hatches in a specific position, or to regulate the opening/closing force.

- **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.



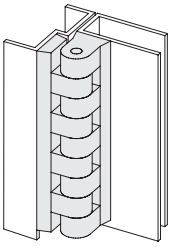
Adjustable hinges

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.



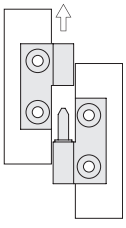
Hinges for narrow jambs

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**.



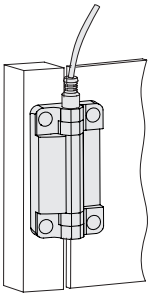
Lift-off hinges

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**.



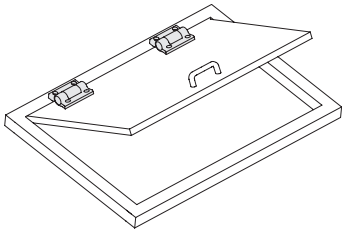
Hinges with electrical safety switch

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)

CFT.
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 200º (-20° and +180° being 0° the condition where the two interconnected surfaces are on the same plane). Dimensions: 1.57 - 1.93 - 2.56 inch

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 200º (-20° and +180° being 0° the condition where the two interconnected surfaces are on the same plane).
Dimensions: 1.57 - 1.93 - 2.56 inch

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 200º (-20° and +180° being 0° the condition where the two interconnected surfaces are on the same plane).
Dimensions: 1.57 - 1.93 - 2.56 inch

CFQ.
Hinges with screw-covers
Technopolymer

POM

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 195º (-15° and +180° being 0° the condition where the two interconnected surfaces are on the same plane). Dimensions: 1.97 inch

CFA.
Hinges
Technopolymer
METRIC

PA

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: 1.57 - 1.93 - 2.56 - 3.82 inch

CFAX.
Hinges
Technopolymer rotating pin
METRIC

PA

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: 1.57 - 1.93 - 2.56 inch

CFAX-IP
Hinges with packing ring
Protection rating up to IP69K, technopolymer

PA METRIC

Technopolymer rotating pin.
Mounting via nickel-plated brass bosses with threaded hole or nickel-plated steel threaded studs. Max. rotation angle 215° (-35° and +180° with 0° = coplanarity of surfaces).
Dimension: 1.93 inch

CFK.
False hinge with single body
For CFA. and CFAX. hinges

PA

Mounting via pass-through holes for flat countersunk-head screws.

13.1 Hinges
continues

CFA-F
Hinges with detent position at 95°
Technopolymer
METRIC

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: 1.93 - 2.56 inch

CFL.
Hinges
Technopolymer

PA

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: 4.02 inch

CFM.
Hinges
SUPER-technopolymer
METRIC

PROFILE COMPATIBLE · SUPER TECHNO POLYMER · PA

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. Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces).
Dimensions: 1.18 - 1.57 - 1.97 - 2.36 inch

CFM-AE-V0
Hinges
Technopolymer certified self-extinguish

PROFILE COMPATIBLE · PA

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: 1.18 - 1.57 - 1.97 - 2.36 inch

CFMX
Hinges
SUPER-technopolymer rotating pin

PROFILE COMPATIBLE · SUPER TECHNO POLYMER · PA

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: 1.18 - 1.57 - 1.97 - 2.36 inch

CFM-CLEAN
Hinges
SUPER-technopolymer

PROFILE COMPATIBLE · SUPER TECHNO POLYMER · CLEAN · PA

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: 1.18 - 1.57 - 1.97 - 2.36 inch

CFM-VD
Hinges
Visually Detectable technopolymer

VD · PROFILE COMPATIBLE · INOX STAINLESS STEEL · PA

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: 1.57 - 1.97 inch

CFM-MD
Hinges
Metal Detectable technopolymer

MD · PROFILE COMPATIBLE · INOX STAINLESS STEEL · PA

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: 1.57 - 1.97 inch

CFMQ
Hinges
SUPER-technopolymer

PROFILE COMPATIBLE · SUPER TECHNO POLYMER · 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: 2.36 inch

CFMQ-AE-V0
Hinges
Technopolymer certified self-extinguish

PROFILE COMPATIBLE · PA

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: 2.36 inch

13.1 Hinges
continues

CFM-L
Horizontally elongated hinges
SUPER-technopolymer

PROFILE COMPATIBILE · SUPER TECHNO POLYMER · PA

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: 1.97 - 2.36 inch

CFM-SL
Hinges
SUPER-technopolymer

PROFILE COMPATIBILE · SUPER TECHNO POLYMER · PA

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: 2.36 inch

CFM-TR-G
Hinges for mounting on glass or panels
SUPER-technopolymer

PROFILE COMPATIBILE · SUPER TECHNO POLYMER · PA

AISI 303 stainless steel rotating pin. Mounting on the jamb side via pass-through holes with housing for flat countersunk screws and pass-through 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: 1.57 - 1.97 - 2.36 inch

CMM-TR-SST
Hinges
Stainless steel

INOX STAINLESS STEEL

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: 1.57 - 1.97 - 2.36 inch

CFMR.
Spring hinges
for automatic return, SUPER-technopolymer

SUPER TECHNO POLYMER · PA

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 surfaces). Dimensions: 2.64 inch

CFAM.
Hinges with shock absorber
for soft opening and closing, technopolymer

PA

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: 2.64 inch

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: 2.36 inch

CFMW.
Hinges
SUPER-technopolymer

PROFILE COMPATIBILE · SUPER TECHNO POLYMER · PA

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: 2.76 - 4.33 inch

CFMW-AE-V0
Hinges
Technopolymer certified self-extinguish

PROFILE COMPATIBILE · PA

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: 2.76 - 4.33 inch

CFH.
Hinges
Technopolymer

PA

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: 1.97 inch

13.1 Hinges
continues

CFJ.
Tamperproof hinges
Technopolymer
METRIC

PA

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: 1.97 inch

CFJ-AE-V0
Tamperproof hinges
Technopolymer certified self-extinguish
METRIC

PA

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: 1.97 inch

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: 2.17 inch

CFE.
Hinges
Technopolymer
METRIC

PA

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: 1.18 - 1.57 - 1.89 - 2.60 inch

CFG.
Hinges for profiles
Technopolymer

PROFILE COMPATIBLE PA

Technopolymer centring inserts for profiles with groove sizes from 0.24 to 0.47 inch. 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: 1.42 inch

CFI.
Double hinges for profiles
Technopolymer

PROFILE COMPATIBLE PA

Technopolymer centring inserts for profiles with groove sizes from 0.24 to 0.47 inch. Mounting via pass-through holes with housing for M6 flat countersunk-head screws. Max rotation angle 260º/275º (-95° and +165°/180° with 0° being the condition of coplanarity of surfaces).
Dimensions: 1.42 inch

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: 2.36 inch

CMM.
Hinges
Die-cast zinc alloy
METRIC

INOX STAINLESS STEEL PROFILE COMPATIBLE

AISI 303 stainless steel rotating pin. Mounting via pass-through holes with housing for flat countersunk-head screws or threaded studs in AISI 304 stainless steel. Max. rotation angle 270° (-90° and +180° with 0° = coplanarity of surfaces). Dimensions: 1.18 - 1.57 - 1.97 - 2.36 inch

CMM-L
Horizontally elongated hinges
Die-cast zinc alloy
METRIC

INOX STAINLESS STEEL PROFILE COMPATIBLE

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: 1.97 - 2.36 inch

CMM-SST
Hinges
Stainless steel

INOX 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: 1.18 - 1.57 - 1.97 - 2.36 inch

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: 1.18 - 1.57 - 1.97 - 2.36 inch

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: 1.18 - 1.57 - 1.97 - 2.36 inch

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: 3.15 inch

GN 7231
Jointed hinges
concealed, opening angle 90°, stainless steel

AISI 304 stainless steel, ground or with matte finish.
Right or left fixing angle.
They are installed on the inside of doors and hatches to save space and ensure protection against vandalism.

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 7233
Jointed hinges
concealed, opening angle 120°, stainless steel

AISI 304 stainless steel, ground or with matte finish.
Right or left fixing angle.
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, natural colour.
They are installed on the inside of doors and hatches to save space and ensure protection against vandalism.

GN 7237
Jointed hinges
concealed, opening angle 180°, stainless steel

Self-lubricating bronze friction bearings.
Available for left or right fixing.
Opening angle max. 180°.
Dimensions: 1.57 - 1.97 - 2.36 inch

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.

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: 2.36 inch

13.1 Hinges
continues

GN 7247.4
Plates for jointed hinges
with tapped holes, for fixing GN 7241, GN 7243, GN 7247 hinges, stainless steel

INOX STAINLESS STEEL · METRIC

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: 2.36 - 2.95 inch

GN 7247.6
Plates for jointed hinges
with threaded studs, for fixing GN 7241, GN 7243, GN 7247 hinges, stainless steel

INOX STAINLESS STEEL · METRIC

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: 2.36 - 2.95 inch

GN 2376
Plates for jointed hinges
for fixing GN 7237 hinges in stainless steel

INOX STAINLESS STEEL · METRIC

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.

PMC
Spacer plates for hinges
Zinc alloy

They allow different hinges to be fitted on the same door/jamb.

PCM-SP
Spacer plates for hinges
Stainless steel

INOX 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-TH
Spacer plates for hinges
Stainless steel

INOX 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.

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 150°.

CFM-TR
Hinges
SUPER-technopolymer

PROFILE COMPATIBLE · SUPER TECHNO POLYMER · PA

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: 1.57 - 1.97 - 2.36 inch

13.2 Friction and detent hinges

elesa.com

CFV.
Detent hinges
Technopolymer

PA

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: 2.56 inch

CFVT.
Detent hinges
Technopolymer

PA

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: 2.09 inch

13.2 Friction and detent hinges

continues

elesa.com

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 -90° / 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: 2.36 inch

CFP.
Detent hinges
screw-covers, technopolymer

POM

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°, +120°, +170°). Max. rotation angle 195° (-15° and +180° with 0° = coplanarity of surfaces). Dimensions: 1.97 inch

CFU.
Hinges with adjustable friction
Technopolymer

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: 1.57 - 2.36 inch

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: 1.57 - 2.36 inch

CFU-RA
Hinge with adjustable friction
with axial adjustment screw, technopolymer

PA

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: 2.64 inch

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: 1.93 - 2.56 - 3.82 inch

CFG-ERS
Hinges for profiles with friction locking
Technopolymer

PROFILE COMPATIBLE PA

Adjustable handle for clamping in technopolymer. Technopolymer centring inserts for profiles with groove sizes from 0.24 to 0.47 inch. 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: 1.42 inch

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: 2.36 inch

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: 1.57 - 1.97 - 2.36 inch

CMUF-A4
Hinges with adjustable friction
AISI 316 stainless steel

INOX 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: 1.57 - 1.97 - 2.36 inch

13.3 Hinges for door adjustment

elesa.com

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

PROFILE COMPATIBLE · PA

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: 2.56 inch

CFR.
Hinge with adjusting inserts
SUPER-technopolymer

SUPER TECHNOPOLYMER · PA

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: 2.36 inch

GN 127
Hinges with adjusting inserts
Die-cast zinc alloy or Stainless Steel

INOX STAINLESS STEEL · PROFILE COMPATIBLE

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: 2.05 - 2.52 - 2.99 inch

CFO.
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: 2.52 inch

CFN.
In line lift-off hinge
Technopolymer

METRIC · PA

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: 2.52 inch

CFNR
In line lift-off hinges with spring
for automatic return, technopolymer

PA · METRIC

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: 2.44 inch

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.

CMZ.
Hinges with adjusting slotted holes
Die-cast zinc alloy

Die-cast zinc alloy. AISI 303 stainless steel rotating pin. Mounting by means of pass-through slots for cylinder head screws allowing for adjustment during fixing. Max. rotation angle 180° (0° and +180° with 0° = coplanarity of interconnected surfaces). Dimension: 2.17 inch

GN 238
Hinges with adjusting inserts
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: 1.65 - 1.97 - 2.36 inch

13.4 Hinges for narrow jambs

elesa.com

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)

CFB.
Hinge for narrow jambs and doors
Technopolymer

PA

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: 4.25 inch

CFBS
Hinges for narrow jambs and doors
SUPER-technopolymer

SUPER TECHNO POLYMER · 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: 2.95 inch

CFF.
Hinges for narrow jambs and doors
Technopolymer

METRIC

PA

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: 1.18 - 1.57 - 1.89 - 2.60 inch

CFD.
Hinges for narrow jamb
Technopolymer

METRIC

PA

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: 1.18 - 1.57 - 1.89 - 2.60 inch

CFDA
Hinges for narrow jamb
SUPER-technopolymer

SUPER TECHNO POLYMER · PA

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: 2.83 - 3.94 inch

GN 136
Hinges
Steel or stainless steel sheet

INOX STAINLESS STEEL

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° with 0° = coplanarity of surfaces). Dimensions: 1.18 - 1.57 - 1.77 - 1.97 - 2.36 - 2.95 - 3.54 inch

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: 2.36 - 4.72 - 6.30 - 7.87 - 8.66 inch

CMDX-AL
Hinges for narrow jambs and thin doors
Aluminum

METRIC

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: 1.97 - 2.76 - 3.54 inch

GN 138
Hinges for narrow jamb
Zinc alloy

METRIC

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: 1.65 - 2.05 - 2.44 - 2.56 - 3.15 - 3.23 - 3.74 - 4.92 inch

13.5 Hinges for removable doors

elesa.com

Material

- Technopolymer (3)
- Die-cast zinc alloy (2)

Type of assembly

- Blind hole (1)
- Pass-through holes (4)

CFMY
Lift-off hinges
SUPER-technopolymer

PA

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: 1.57 - 1.97 - 2.36 inch

CFMY-NL
Lift-off hinges
with locking/unlocking system, technopolymer

PA

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: 2.36 inch

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: 1.57 - 1.97 - 2.36 inch

CFGY
Lift-off hinges
For profiles, SUPER-Technopolymer

PA

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: 1.26 inch

CMN
Lift-off hinges
Die-cast zinc alloy
METRIC

Epoxy resin coating, RAL 9005 black colour or RAL 9006 light grey.
Washer in polyamide based technopolymer.
Assembly by means of threaded holes.
Dimension: 2.48 inch

13.6 Electrical safety hinges

elesa.com

Material

- Technopolymer (4)

Type of assembly

- Pass-through holes (3)

CFSQ
Hinges with built-in safety switch
SUPER-technopolymer

PA

Safety switch with a normally closed contact (NC) and a normally open contact (NO) in change-over. Positive opening in accordance with IEC EN 60947-5-1.
Double insulation of internal circuits.
Dimension: 2.09 inch

CFSW.
Hinges with built-in safety switch
SUPER-technopolymer

PA

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: 4.33 inch

PMW.
CFSW. and CFMW. assembly kit for profiles
for CFSW. And CFMW. hinges, SUPER-technopolymer

PA

AISI 304 stainless steel screws and nuts. Allows installation of CFSW.110 and CFMW.110 hinges on standard profile sizes 1.18, 1.38, 1.57, 1.77 and 1.97 inch with T-slot.

FC-M12x1
Extensions with M12x1 connector
For CFSQ, CFSW, EBR-SWM and EBR-SWB

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.

14 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

elesa.com

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
METRIC

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: 0.71 - 1.79 - 0.94 - 1.26 inch

CM.
Lever latches
with key-way type knob, zinc alloy
METRIC

Nickel-plated zinc alloy rotor, stator and knob; brass nut; zinc-plated steel closing lever and screw.
Rotation 90°.
Dimensions: 0.79 - 0.98 inch

CMLX
Compression latches with padlock holes
with key-type knob, zinc alloy
METRIC

Nickel-plated zinc alloy rotor, stator and knob; brass nut; zinc-plated steel closing lever and screw.
They are particularly suitable for use on cabinet doors and doors subject to strong vibrations.
Rotation 90°.
Dimensions: 1.18 inch

VCK.
Cam latches
with knob, steel or stainless steel cam
METRIC

INOX STAINLESS STEEL
PF

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: 1.97 - 2.36 - 2.76 inch

VCTK. - VCMK.
Cam latches
with knob, technopolymer and steel or stainless steel

INOX STAINLESS STEEL
PP

VCTK: technopolymer knob; chrome-plated zinc alloy stator and rotor; zinc-plated steel latch cam, screw, spring washer and nut; aluminium distance element. VCMK: stainless steel knob, stator and rotor, latch cam, screw and washer, nut and distance element.
Knob diameter: 1.97 inch

VCML
Lever latches
with knob, stainless steel
METRIC

INOX STAINLESS STEEL

Stainless steel stator, closing lever, screw, washer and nut.
Rotation 90° right. IP 65 protection class.
Knob diameter: 1.97 inch

MDA-L
Latches with adjustable lever
Technopolymer knob

PA

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: 2.09 inch, adjustment range from 0.16 to 1.81 inch

MDA-LS
Lever latches with clamping bolt
Technopolymer knob

PA

Technopolymer covers.
Zinc alloy threaded body, zinc-plated steel screw and locking nut. Neoprene bolt.
Rotation 90° right.
Knob diameter: 2.09 inch, clamping range from 0.04 to 1.61 inch

14.1 Latches with knob

continues

MDA-LS-SST
Lever latches with clamping bolt
Technopolymer knob

INOX STAINLESS STEEL

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: 2.09 inch

GN 1150
Hygienic Design Lever latches
Knob side (front hygiene) / Knob and plunger side (full hygiene)

INOX STAINLESS STEEL · HD · FDA

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: 0.94 - 1.77 inch

14.2 Snap locks

elesa.com

Material

- Technopolymer (7)
- Technopolymer - Die-cast zinc alloy (1)
- Stainless steel (1)
- Die-cast zinc alloy (1)

BPS
Ball catch
Technopolymer

PA · POM

The clamp, in which the ball fixed to the closing door is inserted, is a mechanical stop device also to the door movement.
Opening release strength is = 30 N.
Assembly by means of a self-tapping screw or cylindrical-head screw with hexagon socket.

GN 4490
Ball-shaped door lock
Die-cast zinc alloy or AISI 316 LHC stainless steel.

INOX STAINLESS STEEL · POM · PC

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: 1.50 - 1.97 - 2.68 - 3.15 inch

BMS
Snap door lock
Technopolymer

PA

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:1.50 inch

BMST
Snap door lock
for T-slot profiles, technopolymer

PROFILE COMPATIBLE · 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
Snap locks
with handle, technopolymer

PA · POM

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: 2.36 inch

CMS-CLEAN
Snap door lock
with handle, technopolymer, easy cleaning

CLEAN · PROFILE COMPATIBLE · PA · POM

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: 2.36 inch

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 0.71 to 1.10 inch

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: 0.79 to 0.98 inch

14.3 Latches with key

elesa.com

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)

PR-CH
Flush pull handles with lever latch
with lock, snap-in assembly, technopolymer

PA

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: 4.61 inch

CSMH
Latches with push handle
with handles and lever, zinc alloy

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. Dimension: 5.04 inch, adjusting distance: from 0.51 to 2.95 inch

ESC
Door lock handles
with or without lock, technopolymer

POM PA

PROFILE COMPATIBLE ERGOSTYLE®

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: 3.54 inch

GN 936
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 encryption lock.

GN 119
Cam latches
with key, zinc alloy or stainless steel

INOX 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 0.28x0.28 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 0.28x0.28 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: 5.04 inch, adjusting distance: from 0.51 to 2.95 inch

BOCK
Cam latches with key
with key, steel or stainless steel cam

INOX STAINLESS STEEL

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: 1.81 - 2.13 - 2.52 inch

EBP-CH
Handle with lever latch
with key, technopolymer

METRIC

ERGOSTYLE® PA

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: 4.61 inch

EBR-CH
Handle with safety locking device
For retractable sliding doors, technopolymer

ERGOSTYLE® PA

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: 5.20 inch

14.3 Latches with key

continues

CKE.
Locking bolt
Technopolymer
METRIC

INOX STAINLESS STEEL · PA

Technopolymer, black, matte finish, with anti-intrusion profile keyway. Locking bar in AISI 304 stainless steel with technopolymer button.
Dimension: 2.11 inch

CLC.
Latches for cabinets
with handle for rod controls, technopolymer and zinc alloy

PA

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: 6.30 inch

CLT.
Latches for cabinets
with handle for rod controls, technopolymer

PA

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: 6.30 inch

CAR.
Rod controls
Steel

Zinc-plated rod guides, chrome-plated zinc alloy toothed wheel.
Nickel-plated zinc alloy or technopolymer body.
Length: 13.66 inch

CQT.AE-V0
Lever latches
with key, technopolymer
METRIC

INOX STAINLESS STEEL · PA

UL-94 V0 self-extinguishing technopolymer; stainless steel self-tapping screw.
Rotation 90°.
Keyway for two-winged or triangular key.
Dimensions: 0.71 - 0.79 - 0.94 - 1.26 inch

CQT.FM-CR
Lever latches
with key, quick assembly, technopolymer

PA

Chrome technopolymer body.
Silicone packing ring, stainless steel washer and self-tapping screw. Technopolymer key.
Rotation 90°. IP 65 protection class.
Dimensions: 0.71 - 0.79 - 0.87 - 0.98 - 1.18 inch

CQT.FM-AE-V0
Lever latches
with key, quick assembly, self-extinguishing technopolymer

PA

Technopolymer black colour.
Silicone packing ring, washer with elastic fixing wings and stainless steel self-tapping screw. Technopolymer key.
Rotation 90°. IP 65 protection class.
Dimensions: 0.71 - 0.79 - 0.87 - 0.98 - 1.18 inch

CQ.
Lever latches
with key, zinc alloy
METRIC

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: 0.63 - 0.71 - 0.79 - 0.94 - 1.10 - 1.26 inch

CQ.SST
Lever latches
with key, stainless steel
METRIC

INOX 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: 0.71 - 0.94 inch

VC.308
Lever latches
with flat lever, technopolymer knob with lock

PP

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: 1.57 inch

14.3 Latches with key

continues

VC.309
Lever latches
with flat lever, technopolymer knob with lock

PP

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: 1.57 inch

CS.
Lever latches
with lock, zinc alloy

METRIC

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 0.51 to 1.18 inch

CS-SST
Lever latches
with lock, stainless steel

METRIC

INOX 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 0.51 to 1.18 inch

CS-RPR.
Lever latches
with reprogrammable lock, steel

METRIC

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: 0.79 - 0.98 - 1.18 inch

CX.
Lever latches
with safety lock, zinc alloy

METRIC

Lock with double shear key with internal profile. Chrome-plated zinc alloy stator and rotor.
180° rotation.
With single or differentiated encryption lock.
Dimensions: 0.87 - 1.08 inch

CSMT.
Lever latches
with T-handle and lock, anti-rotation device, technopolymer

PA METRIC

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: 0.53 inch

CSMT-A
Lever latches
with T-handle and lock, anti-rotation device, technopolymer

PA METRIC

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: 3.15 inch

ELCK
Lever latches
with lever handle and lock, technopolymer

ERGOSTYLE® 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: 2.64 - 3.35 inch

RH-FG9
Handles with lock
Aluminum

METRIC

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 0.51 to 1.18 inch

CSM.
Lever latches
with T-handle and lock, steel

METRIC

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: 3.15 inch

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14.3 Latches with key

continues

GN 123
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.

CQTF.FM-AE-V0
Lever latches
Quick-assembly, technopolymer

PA

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: 0.71 - 0.79 - 0.87 - 0.98 - 1.18 inch

CQTL.FM
Lever latches
with key, quick assembly, technopolymer

PA

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: 0.71 - 0.79 - 0.87 - 0.98 - 1.18 inch

CSL.FM
Lever latches with key
with lock, technopolymer and zinc alloy

PA

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: 0.71 - 0.79 - 0.87 - 0.98 - 1.18 - 1.26 inch

14.4 Toggle latches

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Material

- Steel (20)
- Stainless steel (13)
- Die-cast zinc alloy (2)

TLA.
Toggle latches
Steel or stainless steel

INOX

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: 4.02 - 5.51 - 7.60 inch

TLC.
Toggle latches
Steel or stainless steel

INOX

TLC.Z: zinc-plated steel.
TLC.SST: AISI 304 stainless steel.
Dimensions: 2.99 inch

TLG.
Toggle latches
Steel or stainless steel

INOX

TLG.Z: zinc-plated steel.
TLG.SST: AISI 304 stainless steel.
Dimensions: 4.49 - 4.53 inch

TLI.
Toggle latches
Steel or stainless steel

INOX

TLI.Z: zinc-plated steel.
TLI.SST: AISI 304 stainless steel.
Dimensions: 3.54 inch

TLV.
Toggle latches
Steel or stainless steel

INOX

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: 1.57 inch

TLE.
Toggle latches
Steel or stainless steel

INOX

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: 2.05 inch

14.4 Toggle latches

continues

TLF.
Adjustable hook clamps
Steel or stainless steel

INOX 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: 5.43 to 5.91 inch

TLW
Toggle latches
Steel or stainless steel
METRIC

INOX 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: 4.61 ÷ 7.44 inch

TLWS
Toggle latches
with safety stop, steel or stainless steel
METRIC

INOX 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: 4.61 ÷ 7.44 inch

TLT.
Adjustable hook clamps
Steel or stainless steel

INOX 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: 2.36÷2.76 inch

TLS.
Adjustable hook clamps
Steel

Lever body and matching part in zinc-plated steel or in zinc-plated steel.
Special executions on request: Adjustable and lockable hook clamps.
Dimension: 5.91 inch

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: 1.57 - 2.17 inch

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: 1.77 - 2.56 inch

TLL.
Stop lock
Steel

Lever body in zinc-plated steel.
Special executions on request: AISI 304 stainless steel hook clamps.
Dimension: 4.94 inch

TLM.
Adjustable hook clamps
Steel or stainless steel

INOX STAINLESS STEEL

TLM: basic hook clamp.
TLML: hook clamp with padlock hole.
Special executions on request: catch brackets in different shapes and finishes.
Dimension: 3.46 inch

TLN.
Adjustable hook clamp
Steel

Lever body in zinc-plated steel.
Special executions on request: nickel-plated steel stop locks.
Dimension: 3.23÷3.71 inch

14.4 Toggle latches

continues

TLP.
Stop lock
Steel

Zinc-plated steel body.
Special executions on request: AISI 304 stainless steel hook clamps.
Dimension: 5.60 inch

TLR.
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: 2.42 inch

TLU.
Adjustable hook clamps
Steel

Used particularly for sloping surfaces.
Lever body material and matching part in zinc-plated steel.
Dimension: 2.36÷2.56 inch

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: 2.09 - 2.99 - 4.37 - 5.98 inch

TLY.
Toggle latches
Steel

Lever body in zinc-plated steel.
Welding mounting.
Special executions on request: AISI 304 stainless steel hook clamps.
Dimension: 3.19 inch

TLZ.
Toggle latches
Steel

Lever body material and matching part in zinc-plated steel.
Dimension: 3.66 inch

15 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

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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: 4.64 - 6.70 - 7.68 - 10.63 inch

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: 2.68 - 4.64 - 6.70 - 7.68 - 10.59 - 12.12 inch

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: 2.68 - 4.64 - 6.70 - 7.68 inch

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: 4.64 - 6.75 - 7.72 - 10.59 - 12.01 inch

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: 6.73 - 7.72 inch

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 welding tie.
Dimensions: 4.64 - 6.70 - 7.68 - 10.5 - 12.12 inch

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: 4.64 - 6.70 - 7.68 inch

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 welding tie.
Dimensions: 4.64 - 6.75 - 7.72 - 10.59 - 12.01 inch

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: 6.73 - 7.72 inch

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

INOX 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: 2.62 - 3.35 - 4.35 - 5.08 - 6.46 - 8.78 inch

MVAS.
Vertical toggle clamps
with folded base and anti-release lever, steel or stainless steel

INOX 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: 3.35 - 4.35 inch

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: 6.46 - 7.79 inch

MVB.
Vertical toggle clamps
with straight base, steel or stainless steel

INOX 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: 2.62 - 3.35 - 4.35 - 7.07 - 6.46 - 8.78 inch

MVBS.
Vertical toggle clamps
with straight base and safety stop, steel or stainless steel

INOX 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: 3.35 - 4.35 inch

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: 6.46 - 7.79 inch

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: 6.18 - 7.60 inch

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: 4.05 - 5.12 inch

15.2 Vertical toggle clamps

continues

MVA.L
Reinforced vertical toggle clamps
with folded base, steel

LONG LIFE

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: 3.38 - 5.10 - 6.34 - 7.99 inch

MVB.L
Reinforced vertical toggle clamps
with straight base, steel

LONG LIFE

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: 3.38 - 5.10 - 6.34 - 7.99 inch

MPB.
Heavy-duty vertical toggle clamps
Steel

Hardened and ground steel support bosses, rotating pins and seeger rings.
Red polyurethane handle.
Dimensions: 7.48 - 8.66 - 9.84 inch

15.3 Push Pull toggle clamps

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Material

- Steel (5)
- Stainless steel (2)

MFA.
Push-pull toggle clamps
Steel

Rivets and push lever in zinc-plated steel.
Guide bush in zinc-plated brass.
Red polyurethane handle.
Dimensions: 5.12 - 6.57 inch

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: 3.38 - 4.57 - 4.80 - 6.48 - 7.16 - 9.37 - 12.44 inch

MFC-SST
Push-pull toggle clamps
Stainless steel

INOX STAINLESS STEEL

Rivets and push lever in stainless steel. AISI 304 stainless steel base.
Red polyurethane handle.
Dimensions: 3.38 - 4.57 - 4.80 inch

MLA.
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: 2.87 inch

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: 3.35 - 4.61 - 6.48 inch

MFE.
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: 2.79 - 4.45 - 6.81 inch

15.3 Push Pull toggle clamps
continues

MFE-SST
Push-pull toggle clamps
Stainless steel

INOX 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: 2.79 - 4.45 - 6.81 inch

15.4 Latch clamps

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Material
- Steel (16)
- Stainless steel (11)

MTC.
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: 3.86 - 5.98 - 8.66 inch

MTC-SST
Latch clamps
Stainless steel

INOX 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: 3.86 - 5.98 - 8.66 inch

MTC-S
Latch clamps
with safety device, steel or stainless steel

INOX 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: 3.98 - 6.65 - 8.70 inch

MTD.
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: 2.68 - 4.17 - 7.79 inch

MTD-SST
Latch clamps
Stainless steel

INOX 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: 2.68 - 4.17 - 7.79 inch

MTE.
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: 2.68 - 4.17 - 7.79 inch

MTA.
Latch clamps
Steel

Rivets, oscillating pin and nuts in zinc-plated steel.
Red polyurethane handle.
With traction pin or with traction hook.
Dimensions: 7.99 - 8.89 - 9.84 - 10.94 - 12.01 - 13.50 inch

MTP.
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: 8.90 - 11.10 inch

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: 8.90 - 11.10 inch

MTP-S
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: 8.90 - 11.10 inch

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: 10.22 inch

MTS.
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: 8.70 - 10.91 inch

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: 8.70 - 10.91 inch

MTS-S
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: 8.70 - 10.91 inch

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: 6.28 inch

TRU
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.

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: 12.52 inch

MTB.
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: 4.05 - 6.02 - 8.74 inch

15.4 Latch clamps
continues

MTB-SST
Latch clamps
with safety device, stainless steel

INOX 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: 4.05 - 6.02 - 8.74 inch

MTF.
Latch clamps
Zinc-plated steel or stainless steel

INOX 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: 7.87 - 9.76 inch

MTF-S
Latch clamps
with safety stop, zinc-plated steel or stainless steel

INOX 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: 7.87 - 9.76 inch

15.5 Clamps for rotational moulds - Reverse clamps

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Material
- Steel (4)

MVA-R
Vertical toggle clamps
with folded base, steel

Phosphated weldable steel body.
Phosphated steel rivets.
Dimensions: 3.35 - 4.33 - 5.04 inch

MCR
Toggle clamps
weldable steel

Pin in ground and hardened steel.
The position of the threaded screw can be adjusted according to specific applications.
Dimensions: 2.12 inch

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: 6.38 - 7.48 - 10.24 inch

MTR.
Latch clamps
weldable steel

Pin in ground and hardened steel.
Double pulling hook, oscillating pin and nuts in natural steel.
With clamping hole by removable tube or with clamping lever.
Dimensions: 8.66 - 13.15 inch

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: 6.38 - 7.68 - 10.20 - 12.09 - 14.29 inch

PPC.
Clamps, heavy-duty series
for heavy duty applications, steel

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: 16.14 - 19.17 inch

15.6 Pneumatic fastening clamps

continues

elesa.com

Material

- Technopolymer (1)
- Steel (29)
- Aluminium (2)

PVD.
Heavy-duty pneumatic clamps
with toggle-joint support, steel

Rivets and pins in zinc-plated steel.
With open or full clamping lever for welding or with magnetic cylinder.
Dimensions: 3.89 - 4.64 - 6.02 - 7.16 inch

PVE.
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: 6.02 - 7.16 inch

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: 6.42 - 10.79 - 14.21 - 18.98 inch

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: 8.46 - 9.70 inch

PPE.
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: 6.34 - 7.68 inch

PSWX
Limit switches

Protection classification: IP 67
Cable length: 3.0 m

MM-BL
Pneumatic fastening clamps
For side locking

Nickel-plated steel. Maximum working pressure 10 bar. MM-BL 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: 0.79 - 1.26 - 1.57 - 1.97 inch

MM-BI
Pneumatic fastening clamps
For axial locking

Nickel-plated steel. Maximum working pressure 10 bar. MM-BI 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: 0.79 - 1.26 - 1.57 - 1.97 inch

MM-BC
Pneumatic fastening clamps
For axial locking with central fixing

Nickel-plated steel. Maximum working pressure 10 bar. MM-BC 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: 0.79 - 1.26 - 1.57 inch

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, MM-BI or MM-BC pneumatic fastening clamps.
Dimensions: 1.46 - 2.09 - 2.48 - 2.87 inch

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, MM-BI or MM-BC pneumatic fastening clamps.
Dimensions: 1.46 - 2.09 - 2.48 - 2.87 inch

MM-A-SC-NK
Y-shaped brackets for jaw block
Steel

Screws and MM-CC centring bosses in black-oxide steel. They are compatible with MM-BL, MM-BI or MM-BC pneumatic fastening clamps.
Dimensions: 1.46 - 2.09 - 2.48 - 2.87 inch

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, MM-BI or MM-BC pneumatic fastening clamps.
Dimensions: 2.12 - 2.99 - 3.66 - 4.45 inch

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 pneumatic fastening clamps.
Dimensions: 1.50 - 2.14 - 2.48 - 2.89 inch

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 pneumatic fastening clamps.
Dimensions: 1.50 - 2.14 - 2.48 - 2.89 inch

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 pneumatic fastening clamps.
Dimensions: 1.50 - 2.14 - 2.48 - 2.89 inch

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 pneumatic fastening clamps.
Dimensions: 2.16 - 3.05 - 3.66 - 4.47 inch

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 pneumatic fastening clamps.
Dimensions: 3.88 - 5.51 - 6.61 - 7.58 inch

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 pneumatic fastening clamps.
Dimensions: 3.88 - 5.51 - 6.61 - 7.58 inch

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 pneumatic fastening clamps.
Dimensions: 4.55 - 6.42 - 7.79 - 9.15 inch

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 pneumatic fastening clamps.
Dimensions: 4.55 - 6.42 - 7.79 - 9.15 inch

MM-RG
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, MM-BI or MM-BC pneumatic fastening clamps.

MM-SC
Jaw blocks
Steel

They are compatible with the brackets, which in turn are compatible with MM-BL, MM-BI or MM-BC 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, MM-BI or MM-BC 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, MM-BI or MM-BC 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 pneumatic fastening clamps.

15.7 Toggle-joint mechanisms

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Material

- Steel (4)

MGC.L
Toggle-joint mechanisms
Steel

LONG LIFE

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.

MGA.L
Toggle-joint mechanisms
Steel

LONG LIFE

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.

MGB.L
Toggle-joint mechanisms
Steel

LONG LIFE

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.

ALL.
Accessories for toggle-joint mechanisms
Steel

Red polyurethane handle.
They are designed to optimise the use of toggle-joint mechanisms.

15.8 Toggle clamp accessories

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Material

- Technopolymer (2)
- Steel (4)
- Stainless steel (3)

SHH. - SHH-SST
Bolts for toggle clamps
Steel or stainless steel

METRIC

INOX STAINLESS STEEL

Zinc-plated steel or AISI 304 stainless steel nuts.

SSH.
Spring bolts for toggle clamps
Steel

METRIC

Nitrided steel base and flange.
Zinc-plated steel rod with screwdriver socket for adjustment.
Hardened harmonic steel spring.
Nuts in zinc-plated steel.

SRH - SRH-SST
Bolts for toggle clamps
Steel or stainless steel, rubber

INOX STAINLESS STEEL METRIC

Neoprene base in black, hardness 85 Shore A.
Zinc-plated steel or AISI 304 stainless steel nuts.

SAH. - SAH-SST
Bolts for toggle clamps
Steel or stainless steel

INOX STAINLESS STEEL METRIC

AISI 304 stainless steel or zinc-plated steel base, threaded stem, and nuts.

NCH.
Caps for bolts
Rubber

Black neoprene, hardness 85 Shore A.

NCN.
Caps for bolts
with threaded insert, steel and rubber

METRIC

Black neoprene, hardness 85 Shore A.
Zinc-plated steel threaded insert.

16 Accessories for hydraulic systems

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.

Vandal-proof breather cap with double pressurised valve
SFW-VP

Breather caps
SMN, SMW, SFN., SFP., TVD.

Threaded caps
T.440, TX, TN, TNR., TNX., TCR., TCD., TCE., GN 741, GN 742, THR, GN 441, GN 442

Breather caps with single or double valve
SFW, SFV

Plugs with dipstick
TCD+a, TP-C+a, TPC+a, T.240+a, T.440+a

HCV-E, HCX-E, HCK-E, HCY-E
Electrical level indicators with sensor or probe for max temperature and/or min level

Flanges with basket
FRF+C, FRB+C

Rapid levels
HFL-E, HFLT-E

HCX., HCX
Level indicators

Oil level sight glasses in transparent technopolymer body
HE.,HFTX., HFTR

Drain plugs
TSD, TSR

HCFE, HCFE-C, HCFE-EX
Level sight glasses

HCK., SLCK.
Level indicators & Kit for the electric control of a fluid level

TMA., TMB.
Magnetic drain plugs for metal particles retention

HGFT., GN 743, GN 744
Level sight glasses in technopolymer or metal body with prismatic window in transparent technopolymer or glass

ATEX

Compliant with ATEX European Directive

Non-electrical components complying with health and safety requirements according to ATEX European Directive 2014/34/EU (explosive atmospheres) for equipment in Group II, category 2GD.

16.1 Blanking plugs

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Material

- Technopolymer (26)
- Duroplast (3)
- Steel (2)
- Aluminium (7)
- Stainless Steel (1)

TN.
Oil plugs
flat packing ring, technopolymer
METRIC | NPT | BSP
PA

Standard executions: without or with side vent hole. Maximum continuous working temperature: 212°F. 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

TN-EX
Plugs - ATEX Directive
flat packing ring, technopolymer
Ex | PA | BSP

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

TNR.
Oil plugs for high pressure
O-Ring, SUPER-technopolymer
METRIC | BSP
SUPER TECHNO POLYMER | PA

Maximum continuous working temperature: 212°F. 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

TNR-PP
Oil plugs for high pressure
O-Ring, technopolymer (polypropylene)
METRIC | BSP
PP

Maximum continuous working temperature: 176°F.
Metric threadings (pitch 1.5): M16 - M20
GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1

TNX.
Oil plugs
Polyethylene
METRIC | BSP
PE

Maximum continuous working temperature: 140°F. 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

TCR.
Oil plugs for high pressure
O-Ring, fill graphic symbol, SUPER-technopolymer
METRIC | BSP
SUPER TECHNO POLYMER | PA

Maximum continuous working temperature: 212°F.
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

MH.
Label for plugs
with fill or drain graphic symbol, aluminium

MH.N: neutral, without symbols;
MH.C: "fill" graphic symbol in compliance with DIN standards;
MH.S: "drain" graphic symbol in compliance with DIN standards. Maximum continuous working temperature: 212°F.
Diameters: 0.59 - 0.67 - 0.81 - 0.98 - 1.22 inch

TCD.
Oil plugs
flat packing ring, fill graphic symbol, technopolymer
METRIC | NPT | BSP
PA

Maximum continuous working temperature: 212°F. 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
NPT threads: 1/4 - 3/8 - 1/2 - 3/4

16.1 Blanking plugs

continues

TCD+a
Oil plugs
flat packing ring, flat dipstick, fill graphic symbol, technopolymer

METRIC NPT BSP

PA

Flat dipstick in phosphated steel.
Maximum continuous working temperature: 212°F. 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

TCDF+P
Oil plugs
With side hole and anti-splash disc, technopolymer

METRIC

PA

Maximum continuous working temperature: 212°F.
Metric threadings (pitch 1.5): M16 - M18 - M20 - M25 - M26 - M35
GAS threadings: 3/8 - 1/2 - 3/4 - 1

TSD.
Oil plugs
flat packing ring, drain graphic symbol, technopolymer

METRIC NPT BSP

PA

Maximum continuous working temperature: 212°F. 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
NPT threads: 1/4 - 3/8 - 1/2 - 3/4

TSR.
Oil plugs for high pressure
O-Ring, drain graphic symbol, SUPER-technopolymer

SUPER TECHNO POLYMER PA METRIC BSP

Maximum continuous working temperature: 212°F
Metric threadings: M14 - M16 - M18 - M20 - M26 - M27 - M33 - M40 - M42
GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2

TMA.
Magnetic plugs
Aluminum

BSP

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: 212°F
GAS threadings: 1/4 - 3/8 - 1/2 - 3/4

TMB.
Magnetic plugs
Aluminum

METRIC BSP

HT AN

Magnetic element with a high attraction power for the retention of any metal particles in the oil.
Maximum continuous working temperature: 356°F. Metric threadings: M14 - M16 - M20 - M26 - M33 - M40 - M42. GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2

TCE.
Oil plugs
with hexagon socket, technopolymer

METRIC NPT BSP

PA

NBR or FKM rubber flat washer. 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. NPT threads: 3/8 - 1/2 - 3/4

DIN 908
Oil plugs
with hexagon socket, steel

METRIC BSP

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 for high pressure
with hexagon socket, steel

METRIC BSP

NBR synthetic rubber flat washer.
Maximum continuous working temperature: 212°F.
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

METRIC BSP

NBR synthetic rubber flat washer. Standard executions: natural or anodised aluminium in black. Maximum continuous working temperature: 212°F. 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
METRIC BSP

Flat washer in FKM. Standard executions: natural or anodised aluminium in black.
Maximum continuous working temperature: 1176°F. 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

GN 742.5
Oil plugs
AISI 316L stainless steel
METRIC BSP
INOX STAINLESS STEEL

Flat washer in FKM. Standard executions: neutral, with load or unload symbol.
Maximum continuous working temperature: 1176°F. Metric threadings: M14 - M16 - M20 - M26 - M33
GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1

THR.
Oil plugs for manual tightening
O-Ring, technopolymer
BSP
PA

Maximum continuous working temperature: 212°F
GAS threadings: 1/2 - 3/4 - 1

THR-RC
Oil plugs for manual tightening
With O-Ring and elastic fork, technopolymer
METRIC BSP
PA POM

Maximum continuous working temperature: 212°F
NBR synthetic rubber O-Ring.
GAS threadings: 1/2 - 3/4 - 2

THR-LP
Oil plugs for manual tightening
With O-Ring and retaining chain, technopolymer
PA POM METRIC BSP

Maximum continuous working temperature: 212°F
NBR synthetic rubber O-Ring.
GAS threadings: 1/2 - 3/4 - 1

GN 441
Oil plugs
Aluminum
METRIC BSP

Natural aluminium or with epoxy resin coating, black colour, matte finish. NBR synthetic rubber flat washer. Maximum continuous working temperature: 212°F.
Metric threadings (pitch 1.5): M16 - M20 - M26
GAS threadings: 3/8 - 1/2 - 3/4 - 1

GN 442
Oil plugs for high temperatures
Aluminum
METRIC BSP

Natural aluminium or with epoxy resin coating, black colour, matte finish. Flat washer in FKM.
Maximum continuous working temperature: 392°F.
Metric threadings (pitch 1.5): M16 - M20 - M26
GAS threadings: 3/8 - 1/2 - 3/4 - 1

TP-C
Push-fit plugs
fill symbol, technopolymer
METRIC
PA

Graphic symbol “fill”, with or without side breather hole.
Two NBR synthetic rubber O-Rings.
Maximum continuous working temperature: 212°F
Diameters: 0.79 - 1.02 - 1.18 - 1.38 inch

TP-C+a
Push-fit plugs
with flat dipstick, fill symbol, technopolymer
METRIC
PA

Graphic symbol “fill”, with or without side breather hole. Two NBR synthetic rubber O-Rings. Flat dipstick in phosphated steel.
Maximum continuous working temperature: 212°F.
Diameters: 1.02 - 1.18 - 1.38 inch

TP-C-LP
Push-fit plugs
with retaining chain, fill symbol, technopolymer
METRIC
PA POM

Graphic symbol “fill”, with or without side breather hole.
Two NBR synthetic rubber O-Rings.
Maximum continuous working temperature: 140°F
Diameters: 0.79 - 1.02 - 1.18 - 1.38 inch

16.1 Blanking plugs

continues

TP-C-RC
Push-fit plugs
with elastic fork, fill symbol, technopolymer

METRIC

PA POM

Graphic symbol “fill”, with or without side breather hole.
Two NBR synthetic rubber O-Rings.
Maximum continuous working temperature: 212°F
Diameters: 0.79 - 1.02 - 1.18 - 1.38 inch

TP-C+a-RC
Push-fit plugs
with elastic fork and flat dipstick, fill symbol, technopolymer

METRIC

PA POM

Graphic symbol “fill”, with or without side breather hole. Two NBR synthetic rubber O-Rings. Flat dipstick in phosphated steel.
Maximum continuous working temperature: 212°F
Diameters: 1.02 - 1.18 - 1.38 inch

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: 212°F
Diameters: 0.79 - 1.02 inch

TPC+a
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: 212°F.
Diameters: 0.79 - 1.02 inch

T.240
Oil plugs
Duroplast

BSP

PF

NBR synthetic rubber.
Maximum continuous working temperature: 212°F
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

BSP

PF

NBR synthetic rubber flat washer. Flat dipstick in phosphated steel.
Maximum continuous working temperature: 212°F
GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2

T.440
Oil plugs
Technopolymer

BSP

PA

NBR synthetic rubber flat washer.
Maximum continuous working temperature: 212°F
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

BSP

PA

NBR synthetic rubber flat washer.
Flat dipstick in phosphated steel.
Maximum continuous working temperature: 212°F
GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2

TX.
Oil plugs
Polyethylene

METRIC BSP

PE

TX: without gasket. TX-G: with gasket.
Maximum working temperature: 140°F
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

T.270
Oil plugs
Duroplast

BSP

PF

NBR synthetic rubber flat washer.
Maximum continuous working temperature: 212°F
GAS threadings: 1/2 - 3/4 - 1 - 1 1/4

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16.1 Blanking plugs

continues

T.470
Oil plugs
Technopolymer
METRIC BSP

PA

NBR synthetic rubber flat washer.
Maximum continuous working temperature: 212°F
Metric threadings (pitch 2): M60
GAS threadings: 1/2 - 3/4 - 1 - 1 1/4

16.2 Breather caps

elesa.com

Material

- Technopolymer (16)
- Technopolymer - Steel (2)
- Steel (2)
- Stainless steel (1)
- Aluminium (1)

SFC.
Breather cap
with sealing closure, technopolymer
BSP

PA POM

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: 176°F. GAS threadings: 3/8

SFN.
Breather caps
Technopolymer
NPT BSP

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: 212°F.
Diameters: 1.18 - 1.57 - 2.24 - 2.75 inch.
GAS threads: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2 - 2.
NPT threads: 1/4 - 3/8 - 1/2 - 3/4 - 1

SFN-RT
Breather caps
for mounting on rubber tubes, technopolymer

PA AIR FILTRATION 40 µ

Cover in black technopolymer. Technopolymer fitting with a quick-connection system that allows application on rubber tubes. Maximum continuous working temperature: 212°F.
Diameters: 1.57 - 2.75 inch

SFP.
Breather caps
with splash guard, technopolymer
METRIC BSP NPT

PA AIR FILTRATION 40 µ

Cover in orange or black technopolymer. Black threaded fitting with quick bayonet connector. With or without air filter. NBR synthetic rubber flat washer. Maximum continuous working temperature: 212°F.
Diameters: 1.18 - 1.57 - 2.24 - 2.75 inch.
Metric threads (pitch 1.5): M16 - M18 - M20 - M22
GAS threads: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2 - 2
NPT threads: 1/4 - 3/8 - 1/2 - 3/4 - 1

SFP+a
Breather caps
with splash guard and flat dipstick, technopolymer
METRIC BSP NPT

PA

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: 212°F.
Diameters: 1.18 - 1.57 - 2.24 - 2.75 inch.
Metric threads (pitch 1.5): M16 - M18 - M20 - M22
GAS threads: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2 - 2
NPT threads: 1/4 - 3/8 - 1/2 - 3/4 - 1

SFP-EX
Breather caps - ATEX Directive
with splash guard, technopolymer
BSP

Ex PA AIR FILTRATION 40 µ

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: 176°F.
GAS threadings: 3/8 - 1/2 - 3/4

SFP+a-EX
Breather caps - ATEX Directive
with splash guard and flat dipstick, technopolymer
BSP

Ex PA AIR FILTRATION 40 µ

Cover in yellow technopolymer; black threaded fitting. With or without air filter.
Maximum continuous working temperature: 176°F.
Diameters: 1.18 - 1.57 inch
GAS threadings: 3/8 - 1/2 - 3/4

SFP-RT
Breather caps
for mounting on rubber tubes, with splash guard, technopolymer

PA AIR FILTRATION 40 µ

Cover in black technopolymer. Technopolymer fitting with a quick-connection system that allows application on rubber tubes.
Maximum working temperature: 212°F.
Diameters: 1.57 - 2.75 inch

16.2 Breather caps

continues

SFP-LP
Breather caps
with splash guard and retaining chain, technopolymer

BSP

PA | POM | AIR FILTRATION 40 µ

Orange technopolymer cover. Black technopolymer threaded fitting. With or without air filter. NBR synthetic rubber flat washer. Maximum continuous working temperature: 140°F. Diameters: 1.18 - 1.57 - 2.24 inch
GAS threadings: 3/8 - 1/2 - 3/4 - 1 - 1 1/4

SFP-RC
Breather caps
with splash guard and elastic ring, technopolymer

BSP

PA | POM | AIR FILTRATION 40 µ

Orange technopolymer cover. Black technopolymer threaded fitting. With or without air filter. NBR synthetic rubber flat washer. Maximum continuous working temperature: 140°F. Diameters: 1.18 - 1.57 - 2.24 inch
GAS threadings: 3/8 - 1/2 - 3/4 - 1 - 1 1/4

SFX.
Breather caps
with splash guard and external anti-splash semi-discs, technopolymer

PA | METRIC | BSP | AIR FILTRATION 40 µ

Cover in technopolymer. Threaded fitting and external anti-splash disk. NBR rubber flat washer. With or without air filter. Maximum continuous working temperature: 176°F. Diameters: 1.18 - 1.57 - 2.24 inch. 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.

SFX+a
Breather caps
with splash guard, external anti-splash semi-discs and dipstick, technopolymer

PA | METRIC | BSP | AIR FILTRATION 40 µ

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: 176°F. Diameters: 1.18 - 1.57 - 2.24 inch. 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

SFF
Breather caps
with female thread, splash guard, technopolymer

PA | BSP | AIR FILTRATION 40 µ

Cover in black technopolymer;
black threaded fitting. NBR rubber flat washer.
Air filter in polyurethane foam.
Maximum working temperature: 212°F.
GAS threads: 3/4

SFF+a
Breather caps
with female thread, splash guard, and dipstick, technopolymer

PA | BSP | AIR FILTRATION 40 µ

Cover in black technopolymer;
black threaded fitting. NBR rubber flat washer.
Air filter in polyurethane foam.
Maximum working temperature: 212°F.
GAS threadings: 3/4

SFN-PF+F
Breather cap
push-fit, technopolymer

PA | AIR FILTRATION 40 µ

Cover in orange technopolymer;
black threaded fitting. Pressure fitting to tubes.
Annular air filter in polyurethane foam.
Maximum continuous working temperature: 212°F.
Diameter: 2.76 inch

TVD.
Breather caps
with vacuum breaker valve, technopolymer

BSP

PP

Red colour with EPDM synthetic rubber diaphragm gasket, green colour with FKM synthetic rubber diaphragm gasket.
Maximum continuous working temperature: 122°F
GAS threading: 1 1/4

SFV.
Valve breather caps
with valve, technopolymer

METRIC | NPT | BSP

PA

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: 212°F
Metric threadings (pitch 1.5): M12 - M14 - M16 - M18 - M20 - M22. GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1. NPT threads: 3/8 - 1/2

SFW
Breather caps
with double valve, technopolymer

METRIC | NPT | BSP

PA

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: 212°F
GAS threadings: 3/4 - 1 1/4 - 2
NPT threads: 3/4

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16.2 Breather caps
continues

SFW-P
Breather caps
double valve, with splash guard, technopolymer

METRIC | BSP | PA | AIR FILTRATION 10 µ

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: 212°F. Threadings: M42 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2 - 2

SFW-P+a
Breather caps
double valve, with splash guard and flat dipstick, technopolymer

BSP | PA | AIR FILTRATION 10 µ

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: 212°F. 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

METRIC | BSP | PA | AIR FILTRATION 40 µ

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: 212°F. Metric threading (pitch 2): M42 GAS threading: 3/4

SMN. - SMW.
Breather caps
with double valve and threaded connector, steel

BSP | NPT

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: 212°F. GAS threadings: 1/4 - 3/4

SMN-BA - SMW-BA
Breather caps
with double valve and bayonet assembly, steel

AIR FILTRATION 10 or 40 µ

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: 212°F. Mounting by means of three or six M5x12 screws. Diameters: 1.85 - 3.19 inch

FRF+C
Flange with basket
for vertical mounting, threaded cap, technopolymer

PA | PP | BSP

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

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: 1.53 inch

PLRF+C
Side mount flange with basket
for threaded cap, technopolymer

PA | PP | BSP

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

PLRB+C
Side mount flange with basket
for bayonet cap, technopolymer

PA | PP

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: 1.53 inch

GN 7404
Breathable membrane filters
Aluminium or stainless steel

INOX STAINLESS STEEL

Protective filter in AISI 304 stainless steel. Breathable non-woven nylon membrane. NBR synthetic rubber flat washer. Maximum continuous working temperature: 212°F Metric threadings: M20 - M28 - M33 GAS threading: 1/2 - 3/4 - 1

16.3 Oil level sight glasses

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Material

- Technopolymer (14)
- Stainless steel (6)
- Aluminium (5)
- Brass (7)

HGFT.
Oil level sight glasses
Technopolymer
METRIC NPT BSP
PA

Transparent technopolymer lens. With or without contrast screen. NBR synthetic rubber flat washer. Maximum continuous working temperature: 212°F.
GAS threadings: 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 2
NPT threads: 1/2 - 3/4 - 1

HGFT-EX
Oil level sight glasses - ATEX Directive
Technopolymer
BSP
Ex PA

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: 176°F.
GAS threadings: 3/8 - 1/2 - 3/4

GN 743
Oil level sight glasses
Aluminum
METRIC BSP

With or without technopolymer reflector. Natural glass lens. NBR synthetic rubber flat washer. Maximum continuous working temperature: 212°F. 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 743.1
Oil level sight glasses for high temperatures
Aluminum
METRIC BSP

With or without technopolymer reflector. ESG safety glass lens. FKM flat washer. Maximum continuous working temperature: 1176°F.
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 743.2
Oil level sight glasses
Brass
METRIC BSP

Natural glass lens. NBR synthetic rubber flat washer. With or without technopolymer contrast screen. Maximum continuous working temperature: 212°F. Metric threadings (pitch 1.5): M16 - M20 - M26 - M27 - M33
GAS threadings: 3/8 - 1/2 - 3/4 - 1

GN 743.3
Oil level sight glasses for high temperatures
Brass
METRIC BSP

ESG safety glass lens. FKM flat washer. With or without technopolymer contrast screen. Maximum continuous working temperature: 1176°F. 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
METRIC BSP
INOX

Natural glass lens. NBR synthetic rubber flat washer. With or without technopolymer reflector. Maximum continuous working temperature: 212°F. Metric threadings: M16 - M20 - M26 - M27 - M33 - M42
GAS threadings: 3/8 - 1/2 - 3/4 - 1 - 1 1/4

GN 743.5
Oil level sight glasses for high temperatures
Stainless steel
METRIC BSP
INOX

ESG safety glass lens. FKM flat washer. With or without technopolymer reflector. Maximum continuous working temperature: 1176°F.
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
METRIC BSP
INOX

With or without reflector. ESG safety glass lens. Flat washer in FKM. Maximum continuous working temperature: 1176°F.
Metric threadings (pitch 1.5): M16 - M20 - M26 - M33 - M42
GAS threading: 3/8 - 1/2 - 3/4 - 1 - 1 1/4

GN 7440
Oil level sight glasses for high temperatures
AISI 316L stainless steel
METRIC BSP
INOX

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
METRIC BSP

Ex

ESG safety glass lens. FKM flat washer. They comply with the European ATEX Directive 2014/34/EU. Maximum continuous working temperature: 356°F. Metric threadings (pitch 1.5): M16 - M20 - M26 - M27
GAS threadings: 3/8 - 1/2 - 3/4

GN 743.7
Oil level sight glasses
with conical threading, brass
NPT BSP

Lens in natural glass.
With or without technopolymer contrast screen.
Maximum continuous working temperature: 212°F.
Conical threading: R3/8 - R1/2 - R3/4 - R1 - R1 1/4. NPT threads: 3/8 - 1/2 - 3/4 - 1 - 1 1/4

GN 743.8
Oil level sight glasses for high temperatures
with conical threading, brass
NPT BSP

ESG safety glass lens.
With or without technopolymer contrast screen.
Maximum continuous working temperature: 1176°F.
Conical threading: R3/8 - R1/2 - R3/4 - R1 - R1 1/4. NPT threads: 3/8 - 1/2 - 3/4 - 1 - 1 1/4

GN 7430
Mounting Nuts
Brass and AISI 316L stainless steel
INOX

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

GN 7403
Breather filters
Aluminium or stainless steel
METRIC BSP
INOX PA

AISI 304 stainless steel mesh filter with technopolymer surround. NBR synthetic rubber flat washer. Maximum continuous working temperature: 212°F. Metric threadings (pitch 1.5): M20 - M26 - M33.
GAS threadings: 1/2 - 3/4 - 1

HGFT-PR
Oil level sight glasses
with prismatic window, technopolymer
NPT BSP

Prismatic lens in transparent polyamide-based technopolymer. NBR synthetic rubber flat washer. Maximum continuous working temperature: 212°F at 3 bar pressure.
GAS threadings: 1/2 - 3/4 - 1 - 1 1/4
NPT threads: 1/2 - 3/4 - 1

HGFT-HT-PR
Oil level sight glasses for high temperatures
with prismatic window, technopolymer
HT PA BSP

Prismatic lens in transparent technopolymer with a sulfonic base. FKM flat washer.
Maximum continuous working temperature: 284°F at 7 bar pressure.
GAS threads: 1/2 - 3/4 - 1

GN 744
Oil level sight glasses
Aluminum
METRIC BSP

Transparent technopolymer lens. NBR synthetic rubber flat washer. Maximum continuous working temperature: 230°F.
Prismatic lens, neutral or with rim.
Metric threadings (pitch 1.5): M20 - M26 - M27 - M33. GAS threadings: 1/2 - 3/4 - 1

HRT.
Oil level sight glasses
push-fit, technopolymer

PA

Transparent technopolymer window. White lacquered aluminium contrast screen.
NBR synthetic rubber O-Ring.
Maximum continuous working temperature: 212°F
Diameters: 1.10 - 1.42 - 1.65 - 2.52 inch

HE.
Oil level sight glasses
push- fit, polycarbonate

PC

White lacquered aluminium contrast screen with red level line. NBR synthetic rubber O-Ring.
Maximum continuous working temperature: 212°F.
These indicators are suitable for assembly on reservoirs with limited pressures.
Diameters: 0.71 - 0.83 - 1.10 - 1.26 - 1.50 - 1.69 - 1.85 inch

16.3 Oil level sight glasses

continues

HFTX.
Oil level sight glasses
Transparent technopolymer

METRIC BSP SAE

PA-T

With or without star-shaped contrast screen in aluminium. NBR synthetic rubber flat washer.
Maximum continuous working temperature: 212°F
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
SAE threads: 3/4-16, 1 1/16-12

HFTX-PR
Oil level sight glasses
with prismatic window, transparent technopolymer

PA-T BSP

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: 212°F
GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4

HFTR-PR
Oil level sight glasses for high clamping torque
with prismatic window, transparent technopolymer

PA-T BSP

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: 212°F
GAS threadings: 1/2 - 3/4 - 1 - 1 1/4

HCFE-C
Oil level sight glasses
with index level check, transparent technopolymer

PA-T BSP

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: 212°F
GAS threadings: 1/2 - 3/4 - 1

GH.
Mounting Nuts
for level indicator mounting on thin-walled tanks, nickel-plated brass

METRIC BSP

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 1/4 - 2

HFTX-EX
Oil level sight glasses - ATEX Directive
Technopolymer

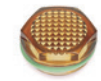
METRIC BSP

Ex 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-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.
Maximum continuous working temperature: 302°F.
Metric threadings (pitch 1.5): M16 - M20 - M26.
GAS threadings: 1/4 - 3/8 - 1/2 - 3/4 - 1 - 1 1/4

HCFE.
Oil level sight glasses
Transparent technopolymer

METRIC BSP

PA-T

NBR synthetic rubber flat washer. Maximum continuous working temperature: 212°F.
Metric threadings (pitch 1.5): M16 - M20 - M25 - M26 - M27 - M35 - M40
GAS threadings: 3/8 - 1/2 - 3/4 - 1 - 1 1/4

HCFE-EX
Oil level sight glasses - ATEX Directive
Transparent technopolymer

Ex PA-T BSP

NBR synthetic rubber flat washer. Compliant with the Essential Health and Safety Requirements of the European ATEX Directive 2014/34/EU. Maximum continuous working temperature: 176°F.
GAS threadings: 3/8 - 1/2 - 3/4

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16.4 Level indicators

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Material

- Technopolymer (18)
- Steel (1)
- Stainless steel (7)

HCX.
Level indicators
Transparent technopolymer
METRIC

INOX STAINLESS STEEL · SUPER TECHNO POLYMER · PA-T

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: 194°F.
Assembly centre distances: 3 - 5 - 10 inch

HCX-AR
Level indicators
Transparent technopolymer, for use with fluids containing alcohol, high UV resistance
METRIC

INOX STAINLESS STEEL · SUPER TECHNO POLYMER · PA-T

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: 194°F.
Assembly centre distances: 3 - 5 - 10 inch

HCX/T-AR
Level indicators with thermometer
Transparent technopolymer, for use with fluids containing alcohol, high UV resistance
METRIC

INOX STAINLESS STEEL · SUPER TECHNO POLYMER · PA-T

HCX/T-AR: zinc-plated steel screws, nuts and washers; NBR rubber 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 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: 3 - 5 - 10 inch

HCX-P
Level indicators with protection frame
Zinc alloy and transparent technopolymer
METRIC

PA-T

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: 194°F.
Assembly centre distances: 5 inch

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
METRIC

PA-T

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: 194°F.
Assembly centre distances: 5 inch

HCX-PT
Level indicators with protection frame
SUPER-Technopolymer and transparent technopolymer
METRIC

INOX STAINLESS STEEL · SUPER TECHNO POLYMER · PA-T

SUPER-technopolymer protection frame.
HCX-PT: zinc-plated steel screws, nuts 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: 3 - 5 - 10 inch

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

INOX STAINLESS STEEL · SUPER TECHNO POLYMER · PA-T · METRIC

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: 3 - 5 - 10 inch

HCX-BW-SST

Level indicators for hot water

Transparent technopolymer, stainless steel assembly screws

METRIC

INOX STAINLESS STEEL · PA-T

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: 176°F or 194°F
Assembly centre distances: 3 - 5 - 10 inch

HCX-LT

Oil level indicators with float for indirect level reading

Transparent technopolymer, zinc-plated steel assembly screws

METRIC

PA-T

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: 194°F
Assembly centre distances: 10 inch

HCZ.

Level indicators

Transparent technopolymer

INCH · METRIC

SUPER TECHNO POLYMER · PA-T

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: 194°F
Assembly centre distances: 3 - 5 - 10 inch

HCZ-AR

Level indicators

Transparent technopolymer, for use with fluids containing alcohol, high UV resistance

INCH · METRIC

PA-T

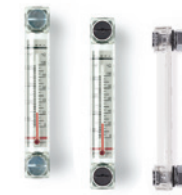
Zinc-plated steel screws, nuts and washers.
Step-shaped packing ring for the seal on the reservoir walls and NBR synthetic rubber O-ring screw underhead.
Maximum continuous working temperature: 194°F
Assembly centre distances: 3 - 5 - 10 inch

HCZ/T-AR

Level indicators with thermometer

Transparent technopolymer, for use with fluids containing alcohol, high UV resistance

INCH · METRIC



SUPER TECHNO POLYMER · PA-T

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 washers.
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: 3 - 5 - 10 inch

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16.4 Level indicators

continues

HCZ-PT

Level indicators with protection frame

SUPER-Technopolymer and transparent technopolymer

INCH
METRIC

SUPER TECHNO POLYMER
PA-T

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: 194°F
Assembly centre distances: 3 - 5 - 10 inch

HCZ/T-AR-PT

Level indicators with thermometer and protection frame

SUPER-Technopolymer and transparent technopolymer, for use with fluids containing alcohol, high UV resistance

INCH
METRIC

SUPER TECHNO POLYMER
PA-T

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: 3 - 5 - 10 inch

HCK.

Level indicators

suitable for oil and glycol-based solutions

INCH
METRIC

INOX STAINLESS STEEL
PA

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: 3 - 5 - 6.93 - 10 - 15 - 20 inch

HCK-PP

Level indicators

suitable for acid or base liquids

METRIC

INOX STAINLESS STEEL
PA

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: 3 - 5 - 6.93 - 10 - 15 - 20 inch

SLCK

Kit for the electric control of a fluid level

for HCK. oil level indicators

PA

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 176°F: polypropylene based (PP) technopolymer float.
For applications with temperatures up to 284°F: polyamide based (PA) technopolymer float.

HCL.

Oil level indicators

with aluminium protection frame

METRIC

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: 158°F.
Assembly centre distances: 11.81 - 15.75 - 19.68 inch

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16.5 Electrical level indicators

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Material

- Technopolymer (9)
- Steel (1)
- Stainless Steel (3)

HCV-E
Electrical level indicators
with MIN level electrical sensor, lateral output, transparent technopolymer

METRIC

PA-T PA

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: 3 - 5 - 10 inch

HCV-E-S
Electrical level indicators
with MIN level electrical sensor, with temperature sensor or probe, side output, transparent technopolymer

METRIC

PA-T PA

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: 3 - 5 - 10 inch

HCV-S
Electrical level indicators
with temperature sensor and probe, lateral output, transparent technopolymer

METRIC

PA-T PA

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: 3 - 5 - 10 inch

HCK-E
Electrical level indicators
with MIN level electrical sensor

METRIC

INOX PA

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: 5 - 6.93 - 10 - 15 - 20 inch

HCK-E-S
Electrical level indicators
with MIN level electrical sensor, temperature sensor or probe

METRIC

INOX PA

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: 5 - 6.93 - 10 - 15 - 20 inch

HCK-S
Electrical level indicators
with temperature sensor or probe

METRIC

INOX PA

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: 5 - 6.93 - 10 - 15 - 20 inch

16.5 Electrical level indicators

continues

HCY-E
Electrical level indicators
with MIN level electrical sensor, transparent technopolymer

METRIC

PA-T

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: 176°F
Assembly centre distances: 3 - 5 - 10 inch

HCY-E-ST
Electrical level indicators
with electrical sensors for MIN level and MAX temperature, transparent technopolymer

METRIC

PA-T

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 (176°F)
Right side output connector. Available with NO or NC electrical contact.
Technopolymer screw-covers.
Assembly centre distances: 3 - 5 - 10 inch

FM Kit
Fast Mounting Kit
Steel and rubber

NBR

Zinc-plated threaded nut.
Packing ring
NBR synthetic rubber.

16.6 Flow indicators

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HVF.
Visual flow indicators
Technopolymer ends, transparent technopolymer

INOX STAINLESS STEEL · PP · BSP

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: 212°F. 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

PP

Glass lens; stainless steel pulling hooks; technopolymer shaft and helix rotor; NBR rubber gaskets; brass bosses with cylindrical gas thread. Maximum working temperature: 212°F. 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.

IP67

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.

Axis and propeller rotor in technopolymer, red colour.

Technopolymer ends.

Tubular lens
Borosilicate glass, high resistance, also suitable for use with solutions containing glycol. Clear visibility of flow from all angles.

INOX STAINLESS STEEL

Sensor activation clip in AISI 304 stainless steel.

16.7 Level sensors

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HFL-E
Rapid levels with float
Technopolymer

PA

Sensor connector with side output and reed contact. Mounting by means of zinc-plated steel flange or threaded connection. Maximum continuous working temperature: 176°F. HFL-E rapid levels detect a predefined minimum or maximum level.

HFLT-E
Rapid levels with float
Technopolymer

PA

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: 176°F. HFLT-E rapid levels detect a predefined minimum or maximum level.

16.8 Flexible coolant hoses

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Material

- Technopolymer (9)

FH.1/4
Modular system for lubrication
Kit with tubes with a diameter of 1/4, technopolymer

POM

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.

FH.1/2
Modular system for lubrication
Kit with tubes with a diameter of 1/2, technopolymer

POM

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.

FHJ
Threaded fittings
for flexible coolant hoses, technopolymer

BSP NPT

POM

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.

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.

FHF
Y fittings
for flexible coolant hoses, technopolymer

POM

Recommended for equipping a system for the lubrication of two different flows at the outlet, keeping only one at the inlet.

FHS
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.

FHV
Ball valve
for flexible coolant hoses, technopolymer

POM

Indicated when the flow needs to be separated or interrupted within the system.

FHB
Magnetic stand
for flexible coolant hoses, technopolymer

BSP

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.

17 Castors and wheels

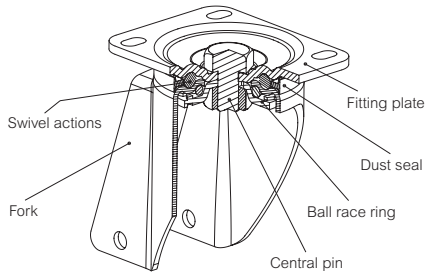
A wide range of castors and wheels, suitable for manual (≤4 km/h) or mechanical (≤16 km/h) handling for trucks and equipment. The range includes wheels with fixed or turning plate bracket, with or without brakes; specific series designed for heavy loads; drive wheels and pallet truck rollers.

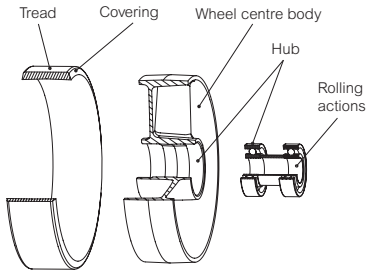
Choosing the wheel

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.F1	RE.F2	RE.F5	RE.F5 -ESD	RE.F4	RE.F8	RE.F7	RE.G1	RE.E2	RE.E3	RE.G2	RE.G5
Load capacity	Light load, up to 250 kg	●	●	●	●	●	●	●	●	●	●	●	●	●
	Medium load, up to 750 kg	●	❒	●	●	●	●	●	▲	▲	▲	▲	●	●
	Heavy load, more than 750 kg	▲	▲	❒	●	❒	●	●	▲	▲	▲	▲	▲	●
Rolling resistance	< 125 kg	●	●	●	●	●	●	●	●	●	●	●	●	●
	> 125 kg	●	●	●	●	●	●	●	●	▲	▲	▲	●	●
Flooring	Tiles	●	●	●	●	●	●	❒	❒	●	●	●	●	●
	Asphalt	❒	❒	●	❒	❒	❒	▲	▲	❒	●	●	●	❒
	Cement - Resin	●	●	●	●	●	●	●	●	●	●	●	●	●
	Not paved	❒	❒	●	❒	❒	❒	❒	❒	❒	●	●	●	❒
	Expanded metal	▲	❒	●	❒	❒	❒	▲	▲	▲	●	●	●	❒
	With chips, obstacles, etc.	▲	❒	❒	❒	❒	❒	▲	▲	▲	●	●	●	❒
Environmental chemical conditions	In the presence of chemicals	●	●	❒	❒	❒	❒	●	●	●	▲	▲	❒	❒
Temperature	-40° / -20°	▲	▲	▲	▲	▲	▲	❒	❒	▲	▲	❒	❒	▲
	-20° / +80°	●	●	●	●	●	●	●	●	●	●	●	●	●
	+80° / +120°	▲	▲	❒	❒	▲	❒	❒	●	▲	▲	❒	❒	❒
	> 120°	▲	▲	▲	▲	▲	▲	▲	●	▲	▲	▲	▲	▲
Means of traction	Manual (speed ≤ 4 Km/h)	●	●	●	●	●	●	●	●	●	●	●	●	●
	Mechanical (speed ≤ 16 Km/h)	▲	▲	●	●	●	●	▲	▲	▲	▲	▲	❒	❒





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)

RE.FF
Injected polyurethane castor wheels
Technopolymer centre body, with or without bearings, injected polyurethane coating

1200 - 4500 N

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: 3.15 - 3.94 - 4.92 - 5.90 - 7.87 inch

RE.FF-N
Castors with steel bracket
Injected polyurethane coating

1200 - 3000 N

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 Ø: 3.15 - 3.94 - 4.92 - 5.90 - 7.87 inch

RE.FF-SST-N
Castors with stainless steel bracket
Injected polyurethane coating

INOX STAINLESS STEEL
1200 - 3000 N

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: 3.15 - 3.94 - 4.92 - 5.90 - 7.87 inch

RLE.FF-N
Castors with adjustable foot
Steel support, injected polyurethane coating

1200 - 2200 N

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: 3.15 - 3.94 - 4.92 inch

RE.C6
Castors for general use
Injected polyurethane coating

400 - 1400 N

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: 1.57 - 1.97 - 2.36 inch

RE.C6-C
Castors for general use
Injected polyurethane coating

400 - 700 N

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: 1.57 - 1.97 - 2.36 inch

RE.C6-G
Twin-castors for general use
Injected polyurethane coating

1400 N

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: 1.97 inch

RE.F1
Injected polyurethane castor wheels
Technopolymer centre body

750 - 3000 N

Hub with pass-through hole.
Excellent rolling resistance and elasticity features, good wear and tear resistance.
Wheel Ø: 3.15 - 3.94 - 4.92 - 5.90 - 7.87 inch

17.1 Polyurethane castors and wheels

continues

RE.F1-N
Castors with steel bracket
Injected polyurethane coating

750 - 1800 N

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 wear and tear resistance.
Wheel Ø: 3.15 - 3.94 - 4.92 - 5.90 - 7.87 inch

RE.F1-SST-N
Castors with stainless steel bracket
Injected polyurethane coating

INOX STAINLESS STEEL · 750 - 3000 N

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: 3.15 - 3.94 - 4.92 - 5.90 - 7.87 inch

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: 3.15 - 3.94 - 4.92 - 5.90 - 7.87 inch

RE.F5-N
Castors with steel bracket
Mould-on polyurethane coating

2000 - 3000 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. Excellent rolling resistance and elasticity features, high wear and tear resistance.
Wheel Ø: 3.15 - 3.94 - 4.92 - 5.90 - 7.87 inch

RE.F5-H
Medium-heavy duty castors
Mould-on polyurethane coating

3500 - 7500 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. Excellent rolling resistance and elasticity features, high wear and tear resistance.
Wheel Ø: 4.92 - 5.90 - 7.87 inch

RE.F5-ESD
ESD polyurethane castor wheels
Aluminium centre body

ESD · 1700 - 6800 N

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: 3.15 - 3.94 - 4.92 - 5.90 - 7.87 inch

RE.F5-N-ESD
Castors with steel bracket
ESD Mould-on polyurethane coating

ESD · 1700 - 3000 N

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: 3.15 - 3.94 - 4.92 - 5.90 - 7.87 inch

RE.F5-H-ESD
Medium-heavy duty castors
ESD Mould-on polyurethane coating

ESD · 3200 - 6800 N

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: 4.92 - 5.90 - 7.87 inch

RE.F4
Mould-on polyurethane castor wheels
Cast iron centre body

3000 - 25000 N

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: 3.94 - 4.92 - 5.90 - 7.87 - 9.84 - 11.81 inch

RE.F4-H
Medium-heavy duty castors
Mould-on polyurethane coating

3500 - 7500 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: 3.94 - 4.92 - 5.90 - 7.87 inch

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17.1 Polyurethane castors and wheels
continues

RE.F4-WH
Castors with bracket for heavy loads
Mould-on polyurethane coating

5500 - 10000 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: 4.92 - 5.0 - 7.87 inch

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: 5.90 - 7.87 - 9.84 - 11.81 inch

RE.G5
Mould-on polyurethane rollers
Steel centre body

5600 - 8000 N

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: 3.15 - 3.23 - 3.35 inch

RE.F2
Soft polyurethane castor wheels
Aluminium centre body

3000 - 7000 N

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: 3.94 - 4.92 - 6.30 - 7.87 inch

RE.F2-N
Castors with steel bracket
Soft polyurethane coating

2000 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. Excellent rolling resistance and elasticity features, high wear and tear resistance.
Wheel Ø: 3.94 inch

RE.F2-H
Medium-heavy duty castors
Soft polyurethane coating

3000 - 7000 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: 3.94 - 4.92 - 6.30 - 7.87 inch

RE.F2-WH
Castors with bracket for heavy loads
Soft polyurethane coating

5500 - 7000 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: 6.30 - 7.87 inch

17.2 Technopolymer castors and wheels

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RE.F8
Technopolymer monolithic wheels
Technopolymer

1200 - 9000 N

Hub with pass-through hole and ball bearings. Ideal solution for heavy loads and continuous moving.
Excellent wear and tear resistance.
Wheel Ø: 2.56 - 3.15 - 3.94 - 4.92 - 5.90 - 7.87 inch

RE.F8-N
Monolithic castor wheels with bracket
Technopolymer

1200 - 3000 N

Bracket in zinc-plated steel sheet, fixed or swivel plate (also with central pass-through hole) with or without brake.
Excellent wear and tear resistance.
Wheel Ø: 2.56 - 3.15 - 3.94 - 4.92 - 5.90 - 7.87 inch

17.2 Technopolymer castors and wheels

continues

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Material

- Steel (4)
- Stainless steel (2)

Carrying capacity

- 0 - 1400 N (2)
- 1401 - 2600 N (4)
- 2601 - 5000 N (3)
- 5001 - 10000 N (3)

RE.F8-SST-N
Monolithic castor wheels with stainless steel bracket
Technopolymer

INOX STAINLESS STEEL · 1800 - 3000 N

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: 3.15 - 3.94 - 4.92 - 5.90 - 7.87 inch

RE.F8-H
Medium-heavy duty castors
Technopolymer

3000 - 7300 N

Bracket in zinc-plated steel sheet, fixed or swivel plate, with or without brake.
Excellent wear and tear resistance.
Wheel Ø: 3.94 - 4.92 - 5.90 - 7.87 inch

RE.F8-WH
Castors with bracket for heavy loads
Technopolymer

6500 - 9000 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.
Excellent wear and tear resistance.
Wheel Ø: 4.92 - 5.90 - 7.87 inch

RLE.F8-N
Monolithic castor wheels with adjustable feet
Steel bracket, technopolymer

1200 - 2200 N

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: 3.15 - 3.94 - 4.92 inch

17.3 Rubber castors and wheels

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Material

- Steel (7)
- Stainless steel (1)

Carrying capacity

- 0 - 1400 N (10)
- 1401 - 2600 N (8)
- 2601 - 5000 N (2)

RE.G1
Thermoplastic rubber castor wheels
Technopolymer centre body

700 - 1800 N

Hub with pass-through hole.
Excellent rolling resistance and elasticity features.
Wheel Ø: 3.15 - 3.94 - 4.92 - 5.90 inch

RE.G1-N
Castors with steel bracket
Thermoplastic rubber coating

700 - 1800 N

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: 3.15 - 3.94 - 4.92 - 5.90 inch

RE.G1-SST-N
Castors with stainless steel bracket
Thermoplastic rubber coating

INOX STAINLESS STEEL · 700 - 1800 N

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.
Wheel Ø: 3.15 - 3.94 - 4.92 inch

RE.E2
Vulcanised rubber castor wheels
Technopolymer centre body

650 - 2250 N

Hub with pass-through hole.
Suitable for medium-light loads and also for outdoor use e.g. industrial handling trolleys.
Wheel Ø: 3.15 - 3.94 - 4.92 - 5.90 - 7.09 - 7.87 inch

RE.E2-N
Castors with steel bracket
Vulcanised rubber coating

650 - 2250 N

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: 3.15 - 3.94 - 4.92 - 5.90 - 7.09 - 7.87 inch

RE.E3
Vulcanised rubber castor wheels
Steel centre body

650 - 2300 N

Hub with pass-through hole.
Suitable for medium-light loads and also for outdoor use e.g. industrial handling trolleys.
Wheel Ø: 3.15 - 3.94 - 4.92 - 5.90 - 7.87 inch

17.3 Rubber castors and wheels
continues

RE.E3-N
Castors with steel bracket
Vulcanised rubber coating

650 - 2300 N

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: 3.15 - 3.94 - 4.92 - 5.90 - 7.87 inch

RE.G2
Elastic rubber castor wheels
Aluminium centre body

1800 - 5000 N

Hub with ball bearings. Ideal solution for heavy loads and continuous moving.
Wheel Ø: 3.94 - 4.92 - 6.30 - 7.87 inch

RE.G2-H
Medium-heavy duty castors
Elastic rubber coating

1800 - 5000 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: 3.94 - 4.92 - 6.30 - 7.87 inch

RE.C7
Castors for general use
Vulcanised rubber coating

350 - 550 N

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: 1.57 - 1.97 - 2.36 - 3.15 inch

RE.C7-C
Castors for general use
Vulcanised rubber coating

350 - 550 N

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: 1.57 - 1.97 - 2.36 - 3.15 inch

RE.C7-G
Twin-castors for general use
Vulcanised rubber coating

600 - 800 N

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: 1.97 - 2.95 inch

17.4 Duroplast wheels

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RE.F7-N-HT
Monolithic castor wheels with steel bracket
Duroplast, high temperatures

HT 1500 - 2000 N

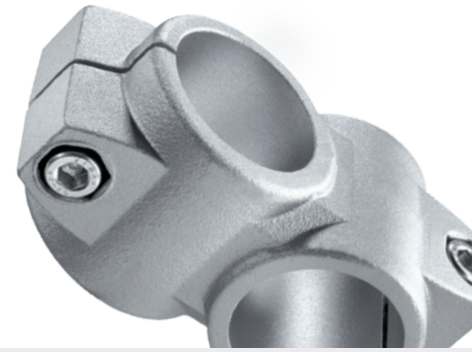
Bracket in zinc-plated steel sheet, swivel plate (also with central pass-through hole), without brake. Resistance to high temperatures makes it suitable for use in food industries and cooking ovens, especially in the baking sector.
Wheel Ø: 3.15 - 3.94 inch

RE.F7-SST-N-HT
Monolithic castor wheels with stainless steel bracket
Duroplast, high temperatures

INOX STAINLESS STEEL HT 1500 - 2000 N

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: 3.15 - 3.94 inch

18 Abrazaderas de conexión



Conexiones fijas y ajustables para perfiles con forma cuadrada o redonda. Para el montaje de estructuras ligeras o modulares. Disponibles en aluminio o acero inoxidable con acabado natural o con revestimiento de resina epoxica en color negro.

18.1 Conexiones para perfiles

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Material

- Tecnopolímero (11)
- Acero inoxidable (20)
- Aluminio (36)

Tipo de tubo

- Redondo (44)
- Cuadrado (15)
- Cuadrado - Redondo (5)

TCC-CR
Abrazaderas de conexión de dos vías
Tecnopolímero

INOX

Color negro o gris.
Tornillos de cabeza cilíndrica con hueco hexagonal de acero INOX AISI 304 y tratamiento antiagarrotamiento.
Tuercas autoblocantes de acero INOX AISI 304.
Diametro Ø: 0.71 - 1.18 inch

TCC-CR-VD
Abrazaderas de conexión de dos vías
Tecnopolímero detectable visualmente

INOX VD PA

Producido a partir de materia prima conforme con FDA (FDA CFR.21 y UE 10/2011). Tornillos de cabeza cilíndrica con hueco hexagonal de acero INOX AISI 304 y tratamiento antiagarrotamiento.
Tuercas autoblocantes de acero INOX AISI 304.
Diametro Ø: 0.71 - 1.18 inch

GN 131
Abrazaderas de conexión de dos vías
Aluminio

Natural o con recubrimiento de resina epoxica en color negro. Tornillos y tuercas de acero inoxidable AISI 304. Requisiciones especiales: diferentes combinaciones de bujes
Diametro Ø: 0.39 - 0.47 - 0.55 - 0.59 - 0.63 - 0.71 inch

GN 131-NI
Abrazaderas de conexión de dos vías
Acero inoxidable

INOX

Acero inoxidable fundido AISI CF-8, acabado mate arenado. Tornillos y tuercas de acero inoxidable AISI 304. Requisiciones especiales: diferentes combinaciones de bujes
Diametro Ø: 0.47 - 0.55 - 0.59 - 0.63 - 0.71 - 0.79 inch

GN 132
Abrazaderas de conexión de dos vías
Aluminio

Natural o con recubrimiento de resina epoxica en color negro. Tornillos y tuercas de acero inoxidable AISI 304. Requisiciones especiales: diferentes combinaciones de bujes
Diametro Ø: 0.79 - 0.98 - 1.18 - 1.26 - 1.38 - 1.57 - 1.65 - 1.77 - 1.89 - 1.97 - 2.16 - 2.36 inch

GN 132.5
Abrazaderas de conexión de dos vías
Acero inoxidable

INOX POM

Acero inoxidable fundido AISI CF-8, acabado mate arenado. Tornillos y tuercas de acero inoxidable AISI 304.
Con o sin arandelas de retención de tecnopolímero.
Diametro Ø: 1.18 - 1.97 inch

GN 133
Abrazaderas de conexión de dos vías
Aluminio

Natural o con recubrimiento de resina epoxica en color negro. Tornillos y tuercas de acero inoxidable AISI 304. Requisiciones especiales: diferentes combinaciones de bujes
Diametro Ø: 0.79 - 0.98 - 1.18 - 1.57 - 1.65 - 1.77 - 1.89 - 1.97 inch

GN 134
Abrazaderas de conexión de dos vías
Aluminio

Natural o con recubrimiento de resina epoxica en color negro. Tornillos y tuercas de acero inoxidable AISI 304. Disponible con buje redondo, cuadrado o combinados.
Diametro Ø: 0.79 - 0.98 - 1.18 - 1.26 - 1.38 - 1.57 - 1.65 - 1.77 - 1.89 - 1.97 inch

18.1 Conexiones para perfiles

sigue

GN 134.7
Abrazaderas de conexión de dos vías
con dispositivo de bloqueo, aluminio

Aluminio, revestimiento de resina epoxídica, color negro. Tornillos y tuercas de acero inoxidable AISI 304. Con orificio roscado, con posicionador de esfera y muelle, de acero inoxidable AISI 303, con pistón de posicionamiento de muelle y bloqueo en posición retraída, de acero inoxidable AISI 303. Contratuerca de acero inoxidable AISI 303.
Diametro: 0.98 - 1.18 - 1.57 - 1.97 inch

GN 135
Abrazaderas de conexión de dos vías
Aluminio

Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro: 1.18 - 1.57 - 1.89 - 1.97 inch

GN 141
Abrazaderas de conexión de dos vías con base de montaje
Aluminio

Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.79 - 0.98 - 1.18 - 1.57 - 1.65 - 1.77 - 1.97 inch

TCC-TB
Abrazaderas de conexión con placa de fijación
Tecnopolímero

INOX STAINLESS STEEL · PA

Color negro o gris.
Tornillos de cabeza cilíndrica con hueco hexagonal de acero INOX AISI 304 y tratamiento antiagarrotamiento.
Tuercas autoblocantes de acero INOX AISI 304.
Diametro Ø: 0.71 - 1.18 inch

TCC-TB-VD
Abrazaderas de conexión con placa de fijación
Tecnopolímero detectable visualmente

INOX STAINLESS STEEL · VD · PA

Producido a partir de materia prima conforme con FDA (FDA CFR.21 y UE 10/2011). Tornillos de cabeza cilíndrica con hueco hexagonal de acero INOX AISI 304 y tratamiento antiagarrotamiento. Tuercas autoblocantes de acero INOX AISI 304. Diametro Ø: 0.71 - 1.18 inch

GN 145
Abrazaderas de conexión con base para montaje
Aluminio

PROFILE COMPATIBLE

Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.39 - 0.47 - 0.55 - 0.59 - 0.62 - 0.71 - 0.79 inch

GN 145-NI
Abrazaderas de conexión con base para montaje
Acero inoxidable

INOX STAINLESS STEEL · PROFILE COMPATIBLE

Acero inoxidable fundido AISI CF-8, acabado mate arenado.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.39 - 0.55 - 0.63 - 0.71 - 0.79 inch

GN 146
Abrazaderas de conexión con base para montaje
Aluminio

Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.79 - 0.98 - 1.18 - 1.26 - 1.38 - 1.57 - 1.65 - 1.77 - 1.89 - 1.97 - 2.16 - 2.36 inch

GN 146.3
Abrazaderas de conexión con base para montaje
Aluminio

Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.79 - 0.98 - 1.18 - 1.26 - 1.38 - 1.57 inch

GN 146.5
Abrazaderas de conexión con base para montaje
Acero inoxidable

INOX STAINLESS STEEL · POM

Acero inoxidable fundido AISI CF-8, acabado mate arenado. Tornillo y arandela de acero inoxidable AISI 304. Tuerca de acero zincado AISI 304. Base con 4 orificios de fijación sin arandelas de retención y anillo de cierre o con arandelas de retención de tecnopolímero y anillo de cierre de silicona. Diametro Ø: 1.18 - 1.97 inch

18.1 Conexiones para perfiles

sigue

GN 146.6
Abrazaderas de conexión con base para montaje
Acero inoxidable

INOX STAINLESS STEEL · POM

Acero inoxidable fundido AISI CF-8, acabado mate arenado. Tornillo y arandela de acero inoxidable AISI 304. Tuerca de acero zincado AISI 304. Base con 4 orificios de fijación sin arandelas de retención y anillo de cierre o con arandelas de retención de tecnopolímero y anillo de cierre de silicona. Diametro Ø: 1.18 inch

GN 147
Abrazaderas de conexión
con base de montaje, aluminio

Aluminio natural con tornillos y tuercas de bloqueo de acero galvanizado o de acero inoxidable AISI 304. Aluminio, revestimiento de resina epoxídica, color negro, con tornillos y tuercas de bloqueo de acero galvanizado o de acero inoxidable AISI 304. Diametro: 0.79 - 0.98 - 1.18 - 1.57 - 1.77 - 1.89 - 1.97 inch

GN 147.3
Abrazaderas de conexión con base
Aluminio

Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Orificio redondo o cuadrado.
Diametro Ø: 0.79 - 0.98 - 1.18 inch

GN 147.7
Abrazaderas de conexión con base
con dispositivo de bloqueo, aluminio

Aluminio, revestimiento de resina epoxídica, color negro. Tornillos y tuercas de acero inoxidable AISI 304. Con orificio roscado, con posicionador de esfera y muelle, de acero inoxidable AISI 303, con pistón de posicionamiento de muelle y bloqueo en posición retraída, de acero inoxidable AISI 303. Contratuerca de acero inoxidable AISI 303
Diametro: 0.98 - 1.18 - 1.57 - 1.97 inch

TCC-AB
Abrazaderas de conexión con base para montaje
Tecnopolímero

INOX STAINLESS STEEL · PA

Color negro o gris. Tornillos de cabeza cilíndrica con hueco hexagonal de acero INOX AISI 304 y tratamiento antiagarrotamiento. Tuercas autoblocantes de acero INOX AISI 304. Diametro Ø: 0.71 - 1.18 inch

TCC-AB-VD
Abrazaderas de conexión con base para montaje
Tecnopolímero detectable visualmente

INOX STAINLESS STEEL · VD · PA

Producido a partir de materia prima conforme con FDA (FDA CFR.21 y UE 10/2011). Tornillos de cabeza cilíndrica con hueco hexagonal de acero INOX AISI 304 y tratamiento antiagarrotamiento. Tuercas autoblocantes de acero INOX AISI 304. Diametro Ø: 0.71 - 1.18 inch

GN 162
Brida de conector con placa base
Aluminio

Aluminio, revestimiento de resina epoxídica, color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.39 - 0.47 - 0.55 - 0.59 - 0.63 - 0.71 inch

GN 162-NI
Brida de conector con placa base
Acero inoxidable

INOX STAINLESS STEEL

Acero inoxidable fundido AISI CF-8, acabado mate arenado.
Tornillo y arandela de acero inoxidable AISI 304.
Diametro Ø: 0.47 - 0.55 - 0.59 - 0.63 - 0.71 - 0.79 inch

GN 162.3
Brida de conector con placa base
Aluminio

PROFILE COMPATIBLE

Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.39 - 0.47 - 0.55 - 0.59 - 0.63 - 0.71 inch

GN 162.3-NI
Brida de conector con placa base
Acero inoxidable

INOX STAINLESS STEEL · PROFILE COMPATIBLE

Acero inoxidable fundido AISI CF-8, acabado mate arenado.
Tornillo y arandela de acero inoxidable AISI 304.
Diametro Ø: 0.47 - 0.55 - 0.59 - 0.63 - 0.71 inch

18.1 Conexiones para perfiles

sigue

GN 162.8
Brida de conector con placa base
Con espárrago roscado, aluminio

Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.39 - 0.47 - 0.55 - 0.59 - 0.63 - 0.71 inch

GN 163
Brida de conector con placa base
Aluminio

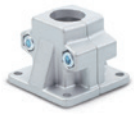
Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.79 - 0.98 - 1.18 - 1.26 - 1.38 - 1.57 - 1.65 - 1.77 - 1.89 - 1.97 - 2.36 inch

GN 163.5
Brida de conector con placa base
Acero inoxidable

INOX STAINLESS STEEL · POM

Acero inoxidable fundido AISI CF-8, acabado mate arenado. Tornillo y arandela de acero inoxidable AISI 304. Tuerca de acero zincado AISI 304. Base con 4 orificios de fijación sin arandelas de retención o con arandelas de retención de tecnopolímero y anillo de cierre de silicona. Diametro Ø: 1.18 - 1.97 inch

GN 165
Brida de conector con placa base
Aluminio



Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.79 - 0.98 - 1.18 - 1.57 - 1.65 - 1.77 - 1.89 - 1.97 inch

GN 166
Bases con eje excéntrico para abrazaderas de conexión
Aluminio

Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro: 0.79 - 0.98 - 1.18 - 1.57 - 1.77 - 1.97 inch

GN 167
Bases para abrazaderas de conexión con soporte grande
Aluminio

Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro: 0.79 - 0.98 - 1.18 - 1.57 - 1.65 - 1.77 - 1.89 - 1.97 inch

GN 171
Bases con bridas laterales con eje excéntrico para abrazaderas de conexión
Aluminio

Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro: 0.79 - 0.98 - 1.18 - 1.57 - 1.65 - 1.77 - 1.89 - 1.97 inch

TCC-TS
Abrazaderas de conexión en T
Tecnopolímero

INOX STAINLESS STEEL · PA

Color negro o gris.
Tornillos de cabeza cilíndrica con hueco hexagonal de acero INOX AISI 304 y tratamiento antiagarrotamiento.
Tuercas autoblocantes de acero INOX AISI 304.
Diametro Ø: 0.71 - 1.18 inch

TCC-TS-VD
Abrazaderas de conexión en T
Tecnopolímero detectable visualmente

INOX STAINLESS STEEL · VD · PA

Producido a partir de materia prima conforme con FDA (FDA CFR.21 y UE 10/2011). Tornillos de cabeza cilíndrica con hueco hexagonal de acero INOX AISI 304 y tratamiento antiagarrotamiento. Tuercas autoblocantes de acero INOX AISI 304. Diametro Ø: 0.71 - 1.18 inch

TCC-TS-PR
Abrazaderas de conexión con fijación en perfiles
Tecnopolímero y aluminio

INOX STAINLESS STEEL · PROFILE COMPATIBLE · PA

Soportes laterales de tecnopolímero de color negro o gris. Tubo de aluminio anodizado, color natural. Versión estándar con una o dos abrazaderas de conexión de tecnopolímero de color negro o gris. Montaje mediante orificios pasantes para tornillos de cabeza cilíndrica con hueco hexagonal. Dimensiones: 8.82 - 10.79 inch

18.1 Conexiones para perfiles

sigue

GN 191
Abrazaderas de conexión en T
Aluminio

Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.39 - 0.47 - 0.55 - 0.59 - 0.63 - 0.71 inch

GN 191-NI
Abrazaderas de conexión en T
Acero inoxidable

INOX STAINLESS STEEL

Acero inoxidable fundido AISI CF-8, acabado mate arenado.
Tornillo y arandela de acero inoxidable AISI 304.
Diametro Ø: 0.47 - 0.55 - 0.59 - 0.63 - 0.71 - 079 inch

GN 192
Abrazaderas de conexión en T
Aluminio

Natural o con recubrimiento de resina epoxica en color negro. Tornillos y tuercas de acero inoxidable AISI 304. Requisiciones especiales: diferentes combinaciones de bujes
Diametro Ø: 0.79 - 0.98 - 1.18 - 1.26 - 1.38 - 1.57 - 1.65 - 1.77 - 1.89 - 1.97 - 2.16 - 2.36 inch

GN 192.5
Abrazaderas de conexión en T
Acero inoxidable

INOX STAINLESS STEEL POM

Acero inoxidable fundido AISI CF-8, acabado mate arenado. Tornillo y arandela de acero inoxidable AISI 304. Tuerca de acero zincado AISI 304. Sin arandelas de retención o con arandelas de retención de tecnopolímero y anillo de cierre de silicona. Diametro Ø: 1.18 - 1.97 inch

GN 196
Conectores en ángulo
Aluminio

Natural o con recubrimiento de resina epoxica en color negro. Tornillos y tuercas de acero inoxidable AISI 304.
Requisiciones especiales: diferentes combinaciones de bujes
Diametro Ø: 0.79 - 0.98 - 1.18 inch

GN 198
Conectores en ángulo
Aluminio

Natural o con recubrimiento de resina epoxica en color negro. Tornillos y tuercas de acero inoxidable AISI 304. Requisiciones especiales: diferentes combinaciones de bujes
Diametro Ø: 0.98 - 1.18 - 1.57 - 1.65 - 1.77 - 1.89 - 1.97 inch

GN 193
Abrazaderas de conexión en T
Aluminio

Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro: 0.79 - 0.98 - 1.18 - 1.26 - 1.38 - 1.57 - 1.65 - 1.77 - 1.89 - 1.97 inch

GN 194
Abrazaderas de conexión en T
Aluminio

Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro: 0.79 - 0.98 - 1.18 - 1.38 - 1.57 - 1.77 - 1.97 inch

GN 195
Abrazaderas de conexión en T
Aluminio

Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro: 0.79 - 0.98 - 1.18 - 1.26 - 1.38 - 1.57 - 1.65 - 1.77 - 1.89 - 1.97 inch

GN 231
Soportes para tubos redondos y cuadrados
Aluminio

PROFILE COMPATIBLE

Aluminio natural con tornillos y tuercas de bloqueo de acero galvanizado o inoxidable AISI 304. Aluminio revestimiento de resina epoxídica, color negro, con tornillos y tuercas de bloqueo de acero galvanizado o de acero inoxidable AISI 304. Diametro: 0.31 - 0.39 - 0.47 - 0.55 - 0.59 - 0.63 - 0.71 - 0.79 - 0.98 - 1.18 - 1.57 - 1.65 - 1.77 - 1.89 - 1.97 - 2.16 - 2.36 inch

18.1 Conexiones para perfiles

sigue

GN 241
Soportes para tubos redondos y cuadrados
Aluminio

Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro: 0.79 - 0.98 - 1.18 - 1.26 - 1.38 - 1.57 - 1.65 - 1.77 - 1.89 - 1.97 inch

TCC-SL
Abrazaderas de unión con manguito
Tecnopolímero

INOX STAINLESS STEEL | PA

Color negro o gris.
Tornillos de cabeza cilíndrica con hueco hexagonal de acero INOX AISI 304 y tratamiento antiagarrotamiento.
Tuercas autoblocantes de acero INOX AISI 304.
Diametro Ø: 0.71 - 1.18 inch

TCC-SL-VD
Abrazaderas de unión con manguito
Tecnopolímero detectable visualmente

INOX STAINLESS STEEL | VD | PA

Producido a partir de materia prima conforme con FDA (FDA CFR.21 y UE 10/2011). Tornillos de cabeza cilíndrica con hueco hexagonal de acero INOX AISI 304 y tratamiento antiagarrotamiento. Tuercas autoblocantes de acero INOX AISI 304. Diametro Ø: 0.71 - 1.18 inch

GN 242
Soportes para camisa para tubos de conexión
Aluminio

Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.79 - 0.98 - 1.18 - 1.26 - 1.38 - 1.57 - 1.65 - 1.77 - 1.89 - 1.97 inch

GN 271.4
Soportes para sensores
Aluminio

Aluminio, revestimiento de resina epóxica, color negro RAL 9005, acabado mate.
Diametro Ø: 0.47 - 0.71 inch

GN 272.4
Soportes para sensores
Aluminio

Aluminio, revestimiento de resina epóxica, color negro RAL 9005, acabado mate.
Diametro Ø: 0.71 - 1.18 inch

GN 273.4
Soportes para sensores
Aluminio

Aluminio, revestimiento de resina epóxica, color negro RAL 9005, acabado mate.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.47 - 0.55 - 0.63 - 0.71 inch

GN 274.4
Soportes para sensores
Aluminio

Revestimiento de resina epoxídica, de color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.79 - 0.98 - 1.18 inch

GN 275.4
Soportes para sensores
Aluminio

Revestimiento de resina epoxídica, de color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.47 - 0.55 - 0.59 - 0.63 - 0.71 inch

18.2 Juntas para perfiles

elesa.com

Material

- Tecnopolímero (10)
- Acero inoxidable (14)
- Aluminio (21)

Tipo de tubo

- Redondo (22)
- Cuadrado (2)
- Cuadrado - Redondo (1)

TCC-PBF
Bases de fijación para uniones articuladas
Tecnopolímero

INOX STAINLESS STEEL · PA

Color negro o gris. Tornillos de cabeza cilíndrica con hueco hexagonal de acero INOX AISI 304 y tratamiento antiagarrotamiento. Tuercas autoblocantes de acero INOX AISI 304. Versiones estándar con o sin dentado exterior. Diametro Ø: 0.71 - 1.18 inch

TCC-PB
Bases de fijación para uniones articuladas
Tecnopolímero

INOX STAINLESS STEEL · PA

Color negro o gris. Tornillos de cabeza cilíndrica con hueco hexagonal de acero INOX AISI 304 y tratamiento antiagarrotamiento. Tuercas autoblocantes de acero INOX AISI 304. Versiones estándar con o sin dentado exterior. Diametro Ø: 0.71 - 1.18 inch

GN 271
Bases para abrazaderas de conexión con rotación
Aluminio

PROFILE COMPATIBLE

Aluminio, revestimiento de resina epóxica, color negro RAL 9005, acabado mate.
Longitud: 0.98 inch

GN 271-NI
Bases para abrazaderas de conexión con rotación
Acero inoxidable

INOX STAINLESS STEEL · PROFILE COMPATIBLE

Acero inoxidable fundido AISI CF-8, acabado mate arenado.
Longitud: 0.98 inch

GN 272
Bases para abrazaderas de conexión con rotación
Aluminio

Aluminio natural o revestimiento de resina epoxídica, de color negro, con anillo de centrado en relieve; con dentado de referencia en relieve o encastrado.
Longitud: 1.57 - 2.56 inch

GN 273
Soportes para sensores
Aluminio

Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.47 - 0.55 - 0.63 - 0.71 inch

GN 273-NI
Soportes para sensores
Acero inoxidable

INOX STAINLESS STEEL

Acero inoxidable fundido AISI CF-8, acabado mate arenado.
Diametro Ø: 0.47 - 0.55 - 0.59 - 0.63 - 0.71 - 0.79 inch

GN 274
Soportes para sensores
Aluminio

Aluminio natural o con revestimiento de resina epoxídica, color negro, con anillo de centrado en relieve; con dentado de referencia en relieve o encastrado. Tornillos y tuercas de acero inoxidable AISI 304. Diametro Ø: 0.79 - 0.98 - 1.18 - 1.57 - 1.65 - 1.77 - 1.89 - 1.97 inch

TCC-AP
Abrazaderas para uniones articuladas
Tecnopolímero

INOX STAINLESS STEEL · PA

Color negro o gris. Tornillos de cabeza cilíndrica con hueco hexagonal de acero INOX AISI 304 y tratamiento antiagarrotamiento. Tuercas autoblocantes de acero INOX AISI 304. Versiones estándar sin dentado o con dentado exterior o interior. Diametro Ø: 0.71 - 1.18 inch

GN 275
Soportes para sensores
Aluminio

Natural o con recubrimiento de resina epoxica en color negro.
Tornillo y tuerca de acero inoxidable AISI 304
Diametro Ø: 0.47 - 0.55 - 0.63 - 0.71 inch

18.2 Juntas para perfiles

sigue

GN 275-NI
Soportes para sensores
Acero inoxidable

INOX STAINLESS STEEL

Acero inoxidable fundido AISI CF-8, acabado mate arenado.
Tornillo y tuerca de acero inoxidable AISI 304
Diametro Ø: 0.47 - 0.55 - 0.59 - 0.63 - 0.71 - 0.79 inch

GN 276
Soportes para sensores
Aluminio

Aluminio natural o con revestimiento de resina epoxídica, color negro, con anillo de centrado en relieve; con dentado de referencia en relieve o encastrado. Tornillo y tuerca de acero inoxidable AISI 304. Diametro Ø: 0.79 - 0.98 - 1.18 - 1.57 - 1.65 - 1.77 - 1.89 - 1.97 inch

GN 276.4
Elementos de fijación
Aluminio

Revestimiento de resina epoxídica, de color negro.
Tornillo y tuerca de acero inoxidable AISI 304
Diametro Ø: 0.79 - 0.98 - 1.18 inch

TCC-TP
Abrazaderas para uniones articuladas
Tecnopolímero

INOX STAINLESS STEEL PA

Color negro o gris. Tornillos de cabeza cilíndrica con hueco hexagonal de acero INOX AISI 304 y tratamiento antiagarrotamiento. Tuercas autoblocantes de acero INOX AISI 304. Versiones estándar sin dentado o con dentado exterior o interior. Diametro Ø: 0.71 - 1.18 inch

GN 277
Soportes para sensores
Aluminio

Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.47 - 0.55 - 0.63 - 0.71 inch

GN 277-NI
Soportes para sensores
Acero inoxidable

INOX STAINLESS STEEL

Acero inoxidable fundido AISI CF-8, acabado mate arenado.
Tornillo y tuerca de acero inoxidable AISI 304
Diametro Ø: 0.47 - 0.55 - 0.59 - 0.63 - 0.71 - 0.79 inch

GN 277.4
Elementos de fijación
Aluminio

Recubrimiento de resina epoxica, color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.47 - 0.55 - 0.59 - 0.63 - 0.71 inch

GN 278
Soportes para sensores
Aluminio

Aluminio natural o con revestimiento de resina epoxídica, color negro, con anillo de centrado en relieve; con dentado de referencia en relieve o encastrado. Tornillos y tuercas de acero inoxidable AISI 304. Diametro Ø: 0.79 - 0.98 - 1.18 - 1.57 - 1.65 - 1.77 - 1.89 - 1.97 inch

GN 278.4
Elementos de fijación
Aluminio

Recubrimiento de resina epoxica, color negro.
Tornillos y tuerca de acero inoxidable AISI 304.
Diametro Ø: 0.79 - 0.98 - 1.18 inch

GN 279
Soportes para sensores
Aluminio

Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro: 1.57 - 1.65 - 1.77 - 1.89 - 1.97 inch

18.2 Juntas para perfiles

sigue

TCC-TP-PBF
Uniones articuladas con base de fijación y abrazadera
Tecnopolímero

INOX STAINLESS STEEL · PA

Color negro o gris. Tornillos de cabeza cilíndrica con hueco hexagonal de acero INOX AISI 304 y tratamiento antiagarrotamiento. Tuercas autoblocantes de acero INOX AISI 304. Versiones estándar con o sin dentado.
Diametro Ø: 0.71 - 1.18 inch

TCC-TP-PB
Uniones articuladas con base de fijación y abrazadera
Tecnopolímero

INOX STAINLESS STEEL · PA

Color negro o gris. Tornillos de cabeza cilíndrica con hueco hexagonal de acero INOX AISI 304 y tratamiento antiagarrotamiento. Tuercas autoblocantes de acero INOX AISI 304. Versiones estándar con o sin dentado.
Diametro Ø: 0.71 - 1.18 inch

TCC-AP-PBF
Uniones articuladas con base de fijación y abrazadera
Tecnopolímero

INOX STAINLESS STEEL · PA

Color negro o gris. Tornillos de cabeza cilíndrica con hueco hexagonal de acero INOX AISI 304 y tratamiento antiagarrotamiento. Tuercas autoblocantes de acero INOX AISI 304. Versiones estándar con o sin dentado.
Diametro Ø: 0.71 - 1.18 inch

TCC-AP-PB
Uniones articuladas con base de fijación y abrazadera
Tecnopolímero

INOX STAINLESS STEEL · PA

Color negro o gris. Tornillos de cabeza cilíndrica con hueco hexagonal de acero INOX AISI 304 y tratamiento antiagarrotamiento. Tuercas autoblocantes de acero INOX AISI 304. Versiones estándar con o sin dentado.
Diametro Ø: 0.71 - 1.18 inch

GN 281
Soportes para sensores
Aluminio

PROFILE COMPATIBLE

Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.47 - 0.55 - 0.63 - 0.71 inch

GN 282
Soportes para sensores
Aluminio

Aluminio natural o con revestimiento de resina epoxídica, color negro, regulación continua o a pasos de 15°. Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.79 - 0.98 - 1.18 - 1.57 - 1.65 - 1.77 - 1.89 - 1.97 inch

GN 283
Soportes para sensores
Aluminio

Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.47 - 0.55 - 0.63 - 0.71 inch

GN 284
Soportes para sensores
Aluminio

Aluminio natural o con revestimiento de resina epoxídica, color negro, regulación continua o a pasos de 15°. Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.79 - 0.98 - 1.18 - 1.57 - 1.65 - 1.77 - 1.89 - 1.97 inch

TCC-AP-AP
Uniones articuladas con abrazaderas
Tecnopolímero

INOX STAINLESS STEEL · PA

Color negro o gris. Tornillos de cabeza cilíndrica con hueco hexagonal de acero INOX AISI 304 y tratamiento antiagarrotamiento. Tuercas autoblocantes de acero INOX AISI 304. Versiones estándar con o sin dentado.
Diametro Ø: 0.71 - 1.18 inch

GN 285
Soportes para sensores
Aluminio

Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.47 - 0.55 - 0.63 - 0.71 inch

18.2 Juntas para perfiles

sigue

GN 286
Soportes para sensores
Aluminio

Aluminio natural o con revestimiento de resina epoxídica, color negro, regulación continua o a pasos de 15°. Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.79 - 0.98 - 1.18 - 1.57 - 1.65 - 1.77 - 1.89 - 1.97 inch

TCC-AP-TP
Uniones articuladas con abrazaderas
Tecnopolímero

INOX STAINLESS STEEL · PA

Color negro o gris. Tornillos de cabeza cilíndrica con hueco hexagonal de acero INOX AISI 304 y tratamiento antiagarrotamiento. Tuercas autoblocantes de acero INOX AISI 304. Versiones estándar con o sin dentado.
Diametro Ø: 0.71 - 1.18 inch

GN 287
Soportes para sensores
Aluminio

Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.47 - 0.55 - 0.63 - 0.71 inch

GN 288
Soportes para sensores
Aluminio

Aluminio natural o con revestimiento de resina epoxídica, color negro, regulación continua o a pasos de 15°. Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.79 - 0.98 - 1.18 - 1.57 - 1.65 - 1.77 - 1.89 - 1.97 inch

GN 289
Soportes para sensores
Aluminio

Natural o con recubrimiento de resina epoxica en color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Diametro Ø: 0.79 - 0.98 - 1.18 - 1.57 - 1.65 - 1.77 - 1.89 - 1.97 inch

18.3 Perfiles y accesorios

elesa.com

Material

- Tecnopolímero (3)
- Acero inoxidable (6)
- Aluminio (3)
- Zamac fundida (1)

Tipo de tubo

- Redondo (2)
- Cuadrado (2)

TCC-A
Casquillo reductor de agujeros
para abrazaderas TCC, tecnopolímero

PA

El casquillo reductor se acopla al orificio de alojamiento de las abrazaderas TCC para poder usar tubos redondos o cuadrados más pequeños. Diametro Ø: 0.47 - 0.55 - 0.59 - 0.63 - 0.79 - 0.98 inch
Orificios cuadrados: 0.39 - 0.47 - 0.79 inch

TCC-A-VD
Casquillo reductor de agujeros
para abrazaderas TCC-VD, Tecnopolímero detectable visualmente

VD · PA

Producido a partir de materia prima conforme con FDA (FDA CFR.21 y UE 10/2011). El casquillo reductor se acopla al orificio de alojamiento de las abrazaderas TCC para poder usar tubos redondos o cuadrados más pequeños.
Diametro Ø: 0.47 - 0.55 - 0.59 - 0.63 - 0.79 - 0.98 inch
Orificios cuadrados: 0.39 - 0.47 - 0.79 inch

TCC-KS
Juego de fijación para TCC
Tecnopolímero

METRIC · INOX STAINLESS STEEL · PA

Manilla graduable y palomilla y casquillo distanciador de tecnopolímero. Tuerca autoblocante de acero INOX AISI 304. Versiones estándar: manilla graduable o palomilla con espárrago roscado de acero inoxidable AISI 303. Medidas: M6 - M8

TCC-KV
Tornillos y tuercas para TCC
Acero inoxidable

INOX STAINLESS STEEL

Tornillos de cabeza cilíndrica con hueco hexagonal, tratamiento antiagarrotamiento y tuerca autoblocante.
Medidas: M6 - M8

18.3 Perfiles y accesorios

sigue

GN 990
Tubos de conexión
Aluminio y acero inoxidable

INOX STAINLESS STEEL

Aluminio o acero inoxidable AISI 304, sección redonda o cuadrada.

GN 992
Tapones terminales con agujero roscado para tubos
Aluminio

Para tubos redondos o cuadrados.
Versiones especiales previo pedido: terminales para tubos de acero inoxidable AISI 303.
Diametro Ø: 1.57 - 1.65 - 1.77 - 1.89 - 1.97 inch

GN 911
Kit de fijación
Zamac y acero inoxidable

INOX STAINLESS STEEL

Palanca de aleación de zinc fundido a presión, revestimiento de resina epoxídica.
Elemento de fijación con tornillo de retención de acero inoxidable AISI 303.
Muelle de retorno de acero inoxidable AISI 303.
Medidas: M6 - M8 - M10

GN 911.3
Kit de fijación
Acero inoxidable

INOX STAINLESS STEEL

Palanca de acero fundido INOX AISI CF-8, acabado mate arenado.
Elemento de fijación con tornillo de retención de acero inoxidable AISI 303.
Muelle de retorno de acero inoxidable AISI 301.
Medidas: M6

GN 197
Soportes para pantallas
Aluminio

INOX STAINLESS STEEL

Núcleo de conexión de aluminio, torneado fino.
Tornillos de acero inoxidable AISI 304 o de latón niquelado.
Diámetros: 10.71 - 0.79 - 0.98 - 1.18 - 1.57 - 1.97 inch

18.4 Conexiones para actuadores lineales

elesa.com

Material

- Acero inoxidable (11)
- Aluminio (2)

Tipo de tubo

- Redondo (30)
- Cuadrado (5)
- Cuadrado - Redondo (3)

GN 274.1
Soportes para sensores
para actuadores lineales, aluminio

Recubrimiento de resina epoxica, color negro.
Tornillos y tuerca de acero inoxidable AISI 304.
Versiones estándar: sin anillo de centrado o con anillo de centrado en relieve; con dentado de referencia en relieve o encastrado. Orificio d1: sin casquillo de rodadura o con casquillo de rodadura de tecnopolímero. Diametro Ø: 1.18 - 1.57 - 1.97 inch

GN 278.1
Elementos de fijación
para actuadores lineales, aluminio

Revestimiento de resina epoxídica, de color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Con o sin bujes deslizantes de tecnopolímero.
Diametro Ø: 1.18 - 1.57 - 1.97 inch

GN 131.1
Abrazaderas de conexión de dos vías
para actuadores lineales, aluminio

Recubrimiento de resina epoxica, color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Con o sin bujes deslizantes de tecnopolímero.
Diametro Ø: 0.71 inch

GN 131.1-NI
Abrazaderas de conexión de dos vías
para actuadores lineales, acero inoxidable

INOX STAINLESS STEEL

Acero inoxidable fundido AISI CF-8, acabado mate arenado.
Tornillos y tuercas de acero inoxidable AISI 304.
Casquillo de rodadura de tecnopolímero.
Diametro Ø: 0.71 inch

18.4 Conexiones para actuadores lineales

sigue

GN 131.2
Abrazaderas de conexión de dos vías
para actuadores lineales, aluminio

Recubrimiento de resina epoxica, color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Sin casquillos o con dos casquillos de rodadura de tecnopolímero.
Diametro Ø: 0.71 inch

GN 131.2-NI
Abrazaderas de conexión de dos vías
para actuadores lineales, acero inoxidable

INOX STAINLESS STEEL

Acero inoxidable fundido AISI CF-8, acabado mate arenado.
Tornillos y tuercas de acero inoxidable AISI 304.
Casquillos de rodadura de tecnopolímero.
Diametro Ø: 0.71 inch

GN 132.1
Abrazaderas de conexión de dos vías
para actuadores lineales, aluminio

Recubrimiento de resina epoxica, color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Sin casquillos o con casquillo de rodadura de tecnopolímero.
Diametro Ø: 1.18 - 1.57 - 1.97 - 2.36 inch

GN 132.2
Abrazaderas de conexión de dos vías
para actuadores lineales, aluminio

Recubrimiento de resina epoxica, color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Con o sin bujes deslizantes de tecnopolímero.
Diametro Ø: 1.18 - 1.57 - 1.97 - 2.36 inch

GN 132.15
Abrazaderas de conexión de dos vías
para actuadores lineales, para sistema de un solo eje, acero inoxidable

INOX STAINLESS STEEL

Acero inoxidable fundido AISI CF-8, acabado mate arenado. Tornillos y tuercas de acero inoxidable AISI 304.
Con o sin arandelas de retención de tecnopolímero.
Diametro Ø: 1.18 - 1.97 inch

GN 132.25
Abrazaderas de conexión de dos vías
para accionadores lineales, para sistemas de dos ejes, acero inoxidable

INOX STAINLESS STEEL

Acero inoxidable fundido AISI CF-8, acabado mate arenado. Tornillos y tuercas de acero inoxidable AISI 304.
Con o sin arandelas de retención de tecnopolímero.
Diametro Ø: 1.18 - 1.97 inch

GN 133.1
Abrazaderas de conexión de dos vías
para actuadores lineales, para sistema de un solo eje, aluminio

Recubrimiento de resina epoxica, color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Con o sin bujes deslizantes de tecnopolímero.
Diametro Ø: 1.18 - 1.97 inch

GN 133.2
Abrazaderas de conexión de dos vías
para actuadores lineales, para sistema de dos ejes, aluminio

Recubrimiento de resina epoxica, color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Con o sin bujes deslizantes de tecnopolímero.
Diametro Ø: 1.18 - 1.97 inch

GN 145.1
Abrazaderas de conexión con base para montaje
para actuadores lineales, aluminio

Recubrimiento de resina epoxica, color negro.
Tornillo y tuerca de acero inoxidable AISI 304
Con o sin bujes deslizantes de tecnopolímero.
Diametro Ø: 0.71 inch

GN 145.1-NI
Abrazaderas de conexión con base para montaje
para actuadores lineales, acero inoxidable

INOX STAINLESS STEEL

Acero inoxidable fundido AISI CF-8, acabado mate arenado.
Tornillo y tuerca de acero inoxidable AISI 304
Casquillo de rodadura de tecnopolímero.
Diametro Ø: 0.71 inch

18.4 Conexiones para actuadores lineales

sigue

GN 146.1
Abrazaderas de conexión con base para montaje
para actuadores lineales, aluminio

Recubrimiento de resina epoxica, color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Con o sin buje deslizante de tecnopolímero.
Diametro Ø: 1.18 - 1.57 - 1.97 - 2.36 inch

GN 146.15
Abrazaderas de conexión con base para montaje
para actuadores lineales, acero inoxidable

INOX STAINLESS STEEL

Fusión de acero inoxidable AISI CF-8.
Base con 4 orificios de fijación sin arandelas de retención y anillo de cierre o con arandelas de retención de tecnopolímero y anillo de cierre de silicona.
Diametro Ø: 1.18 - 1.97 inch

GN 146.16
Abrazaderas de conexión con base para montaje
para actuadores lineales, acero inoxidable

INOX STAINLESS STEEL

Fusión de acero inoxidable AISI CF-8.
Base con 2 orificios de fijación sin arandelas de retención y anillo de cierre o con arandelas de retención de tecnopolímero y anillo de cierre de silicona.
Diametro Ø: 0.18 inch

GN 146.13
Abrazaderas de conexión con base para montaje
para actuadores lineales, aluminio

Recubrimiento de resina epoxica, color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Con o sin buje deslizante de tecnopolímero.
Diametro Ø: 1.18 - 1.57 inch

GN 134.1
Abrazaderas de conexión de dos vías
para actuadores lineales, aluminio

Recubrimiento de resina epoxica, color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Casquillo de unión de acero natural. Versiones estándar: dos orificios redondos; orificio redondo y orificio cuadrado; dos orificios cuadrados y un casquillo de unión; orificio cuadrado con casquillo de unión y orificio redondo. Diametro Ø: 1.18 - 1.57 - 1.97 inch

GN 134.2
Abrazaderas de conexión de dos vías
para actuadores lineales, para sistema de dos ejes, aluminio

Recubrimiento de resina epoxica, color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Dos orificios redondos; orificio redondo y orificio cuadrado; dos orificios cuadrados.
Diametro Ø: 1.18 - 1.57 - 1.97 inch

GN 135.1
Abrazaderas de conexión de dos vías
para actuadores lineales, aluminio

Recubrimiento de resina epoxica, color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Casquillo de unión de acero natural. Versiones estándar: dos orificios redondos; orificio redondo y orificio cuadrado; dos orificios cuadrados y un casquillo de unión; orificio cuadrado con casquillo de unión y orificio redondo. Diametro Ø: 1.18 - 1.57 - 1.97 inch

GN 147.1
Abrazaderas de conexión con base
para actuadores lineales, aluminio

Recubrimiento de resina epoxica, color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Casquillo de unión de acero natural.
Diametro: 1.18 - 1.57 - 1.97 inch

GN 165.1
Abrazaderas de conexión con base
para actuadores lineales, aluminio

Recubrimiento de resina epoxica, color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Casquillo de unión de acero natural.
Diametro: 1.18 - 1.57 - 1.97 inch

GN 162.1
Bases para actuadores lineales
Aluminio

Recubrimiento de resina epoxica, color negro.
Tornillo y tuerca de acero inoxidable AISI 304
Con o sin buje deslizante de tecnopolímero.
Diametro Ø: 0.71 inch

18.4 Conexiones para actuadores lineales

sigue

GN 162.1-NI
Bases para actuadores lineales
Acero inoxidable

INOX STAINLESS STEEL

Acero inoxidable fundido AISI CF-8, acabado mate arenado.
Tornillo y tuerca de acero inoxidable AISI 304
Casquillo de rodadura de tecnopolímero.
Diametro Ø: 0.71 inch

GN 163.1
Bases para actuadores lineales
Aluminio

Recubrimiento de resina epoxica, color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Con o sin buje deslizante de tecnopolímero.
Diametro Ø: 1.18 - 1.57 - 1.97 - 2.36 inch

GN 163.15
Bases para actuadores lineales
Acero inoxidable

INOX STAINLESS STEEL

Acero inoxidable fundido AISI CF-8, acabado mate arenado. Tornillos y tuercas de acero inoxidable AISI 304.
Con o sin arandelas de retención de tecnopolímero.
Diametro Ø: 1.18 - 1.97 inch

GN 191.1
Abrazaderas de conexión en T
para actuadores lineales, aluminio

Recubrimiento de resina epoxica, color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Con o sin bujes deslizantes de tecnopolímero.
Diametro Ø: 0.71 inch

GN 191.1-NI
Abrazaderas de conexión en T
para actuadores lineales, acero inoxidable

INOX STAINLESS STEEL

Acero inoxidable fundido AISI CF-8, acabado mate arenado.
Tornillos y tuercas de acero inoxidable AISI 304.
Casquillo de rodadura de tecnopolímero.
Diametro Ø: 0.71 inch

GN 192.1
Abrazaderas de conexión en T
para actuadores lineales, aluminio

Natural o con recubrimiento de resina epoxica en color negro. Tornillos y tuercas de acero inoxidable AISI 304.
Sin casquillo de rodadura o con casquillo de rodadura de tecnopolímero.
Diametro Ø: 0.71 inch

GN 192.15
Abrazaderas de conexión en T
para actuadores lineales, acero inoxidable

INOX STAINLESS STEEL

Acero inoxidable fundido AISI CF-8, acabado mate arenado. Tornillo, arandela y tuerca de acero inoxidable. Sin arandelas de retención o con arandelas de retención de tecnopolímero y anillo de cierre de silicona.
Diametro Ø: 1.18 - 1.97 inch

GN 273.1
Soportes para sensores
para actuadores lineales, aluminio

Recubrimiento de resina epoxica, color negro.
Tornillo y tuercas de acero inoxidable AISI 304.
Con o sin buje deslizante de tecnopolímero.
Diametro Ø: 0.71 inch

GN 277.1
Elementos de fijación
para actuadores lineales, aluminio

Revestimiento de resina epoxídica, de color negro.
Tornillos y tuercas de acero inoxidable AISI 304.
Con o sin bujes deslizantes de tecnopolímero.
Diametro Ø: 0.71 inch

18.5 Accesorios y actuadores lineales

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Material

- Acero (6)
- Acero inoxidable (1)
- Aluminio (1)

Tipo de tubo

- Redondo (1)

GN 291
Actuadores lineales
Acero

Tornillo helicoidal de acero inoxidable AISI 303 con rosca trapezoidal; eje de latón. Ejecuciones estándar: tornillo derecho o izquierdo, se muestra en un lado o ambos lados. Longitud de pista: 2.56 - 2.76 - 3.94 - 4.53 - 5.90 - 6.50 - 6.69 - 7.87 - 8.46 - 8.66 - 10.43 - 10.63 - 11.81 - 12.40 - 12.60 - 28.35 inch

GN 291.1
Actuadores lineales cuadrados
Acero

Tornillo helicoidal de acero inoxidable AISI 303 con rosca trapezoidal; eje de latón. Ejecuciones estándar: tornillo derecho o izquierdo, se muestra en un lado o ambos lados.
Longitud de pista: 2.56 - 2.76 - 3.94 - 4.53 - 5.90 - 6.50 - 6.69 - 7.87 - 8.46 - 8.66 - 10.43 - 10.63 - 11.81 - 12.40 - 12.60 - 28.35 inch

GN 295
Kits de montaje de indicadores de posición sobre actuadores lineales
Acero
METRIC

Adaptador de eje de acero pavonado.
Base de bloqueo de aluminio anodizado, color negro. Versiones estándar: para indicadores de posición digitales DD50, DD51 y DD52R, o electrónicos DD51-E y DD52R-E.
Diámetros: 0.31 - 0.47 - 0.55 inch

GN 297
Engranajes angulares
Acero

Montaje con dos tornillos prisioneros de cabeza hueca hexagonal de acero zincado incluidos. Versiones estándar: engranaje con dentado para rotación en sentido de las agujas del reloj o contrario; juego de dos engranajes, uno para rotación en sentido de las agujas del reloj y otro para rotación en sentido contrario; juego de tres engranajes, uno para rotación en sentido de las agujas del reloj y dos para rotación en sentido contrario.
Diámetros: 0.57 - 0.98 - 1.30 inch

GN 298
Conectores en T y angulares
Aluminio

Revestimiento del cuerpo de resina epoxídica. Casquillos de registro de acero templado. Montaje mediante 4 casquillos con alojamiento para tornillos de cabeza avellanada, 2 casquillos con alojamiento para tornillos de cabeza avellanada, sin casquillos de registro. Ángulo de rotación máx. 180° (-20° y +160° con 0° = superficies en el mismo plano).
Dimensiones: 1.65 - 1.97 - 2.36 inch

GN 391
Unidades de conexión para actuadores lineales
Acero

Tubo guía de acero cromado.
Eje de acero natural.
Tapones de cierre terminales de tecnopolímero.
Diametro Ø: 0.70 - 1.18 - 1.57 - 1.97 - 2.36 inch

GN 391-NI
Unidades de conexión para actuadores lineales
Acero inoxidable
INOX STAINLESS STEEL

Tubo guía de acero inoxidable AISI 304.
Eje de acero inoxidable.
Tapones de cierre terminales de tecnopolímero.
Diametro Ø: 0.70 - 1.18 - 1.57 - 1.97 - 2.36 inch

GN 292
Actuadores lineales
Acero

Tornillo helicoidal de acero inoxidable AISI 303 con rosca trapezoidal; eje de latón. Casquillos de unión al indicador de acero natural.
Tapones de cierre terminales de tecnopolímero.
Longitud de pista: 4.72 - 5.12 - 8.07 - 10.04 - 11.81 - 13.78 inch

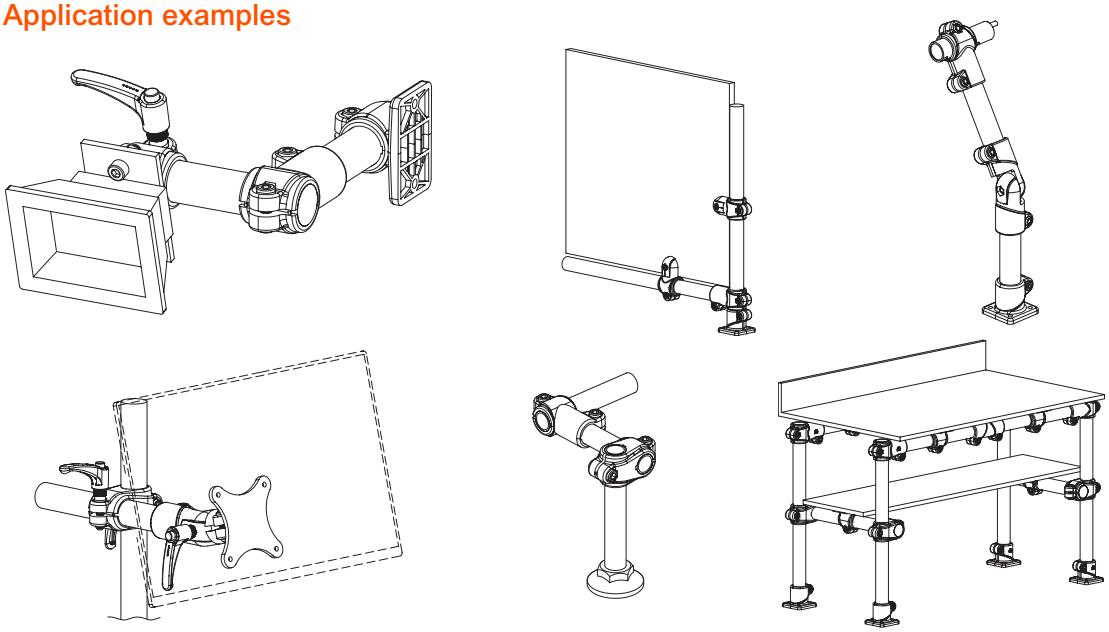
GERMAN DESIGN AWARD WINNER 2024

INOX STAINLESS STEEL

VD

- 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 ±0.008 inch).
- Hole reduction sleeves to adapt to tubes with different diameters.
- Resistance to tube rotation and pull-out guaranteed at tightening torque indicated.

Application examples



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19 Vacuum components

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 0.28 inch, 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-17
Flat vacuum cups with shank
Diameter 0.67 inch, 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-18
Flat vacuum cups with shank
Diameter 0.71 inch, 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 1.06 inch, 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-30
Flat vacuum cups with shank
Diameter 1.18 inch, 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 1.73 inch, 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-50
Shaped flat vacuum cups
Diameter 1.97 inch, 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 2.56 inch, 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

VVB
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.

VVC
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.

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.

VVE
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.

VVF
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.

VVG
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-04
Mini Cup-shaped vacuum cups
Diameter 0.16 inch, 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-05
Mini Cup-shaped vacuum cups
Diameter 0.20 inch, 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 0.24 inch, 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-07
Mini Cup-shaped vacuum cups
Diameter 0.28 inch, 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 0.31 inch, 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-09
Cup-shaped vacuum cups
Diameter 0.35 inch, 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-10
Cup-shaped vacuum cups
Diameter 0.39 inch, 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-12
Cup-shaped vacuum cups
Diameter 0.47 inch, 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 0.59 inch, 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 0.71 inch, 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 0.79 inch, 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 0.87 inch, 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 cups
Diameter 0.98 inch, 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 cups
Diameter 1.18 inch, 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).

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19.1 Vacuum suction cups

continues

VVH-35
Cup-shaped vacuum cups
Diameter 1.38 inch, 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-40
Cup-shaped vacuum cups
Diameter 1.57 inch, 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-45
Cup-shaped vacuum cups
Diameter 1.77 inch, 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-25
Flat Cup-shaped vacuum cups
Diameter 0.98 inch, 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
Flat Cup-shaped vacuum cups
Diameter 1.18 inch, 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 1.38 inch, 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 1.77 inch, 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 2.36 inch, 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 3.35 inch, 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.

VVK
Round Flat vacuum cups
Diameter 3.15 inch, 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

VVL-06
Mini bellows vacuum cups for food packaging
Diameter 0.24 inch, 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-08
Mini bellows vacuum cups for food packaging
Diameter 0.31 inch, 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 0.43 inch, 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 0.63 inch, 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 0.71 inch, 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 0.75 inch, 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 1.18 inch, 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 1.18 inch, 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.

VVL-33
Multi - bellow vacuum cups for food packaging
Diameter 1.30 inch, 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.

VVL-56
Bellows vacuum cups for food packaging
Diameter 2.20 inch, 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 packaging
Diameter 2.95 inch, 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-20
Multi-Bellows Round vacuum cups for food packaging
Diameter 0.79 inch, 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-30
Multi-Bellows Round vacuum cups for food packaging
Diameter 1.18 inch, 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 1.57 inch, 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 1.97 inch, 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 0.79 inch, 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-30
Bellows vacuum cups for Flow Pack
Diameter 1.18 inch, 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 1.57 inch, 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 1.97 inch, 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 1.57 inch, 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 1.97 inch, 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.

VVO-60
Round vacuum cups with one bellow
Diameter 2.36 inch, 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.

VVO-85
Round vacuum cups with one bellow
Diameter 3.35 inch, 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 1.57 inch, 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 1.97 inch, with support, vulcanised rubber

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Round vacuum cups with double bellows
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VVP-85
Round vacuum cups with double bellows
Diameter 3.35 inch, 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 0.87 inch, 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 1.34 inch, 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 1.69 and 2.09 inch, 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

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Material

- Stainless steel (1)
- Brass (2)
- Brass - Steel (5)

VPA
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.

VPB
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 2.91 inch, represent a compact solution for fixing the vacuum cup with support.

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.

VPD
Mini vacuum cup spring suspensions
Threaded connection male or female, steel, aluminium and brass

8 available executions and with an effective spring stroke of 1.00 inch. 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.

VPE
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 be lifted.

VPF
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 1.81 inch, represent a compact solution for fixing the vacuum cup with support.

VPG
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 1.00 inch. 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.

VPH
Micro vacuum cup spring suspensions
Threaded connection female, stainless steel, aluminium and brass

INOX STAINLESS STEEL

5 available executions, with an effective spring stroke of 0.39 inch. With a minimum length of only 2.87 inch, it represents an extremely compact and lightweight solution for fixing vacuum cups with diameters up to 0.63 inch and with M5 male support.

19.3 Vacuum cup fittings

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VRA
Vacuum cup fittings
For VVB, VVC, VVD e VVE 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.

Designed for gripping and handling products and packages of various shapes and sizes, Elesa vacuum components are engineered for adaptability across a range of pneumatic automation systems.

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 0.16 inch up to 4.92 inch.
- **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.

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TECHNICAL DATA

Designers and engineers can benefit from a full collection of Technical Data provided with all ELESA Catalogs. 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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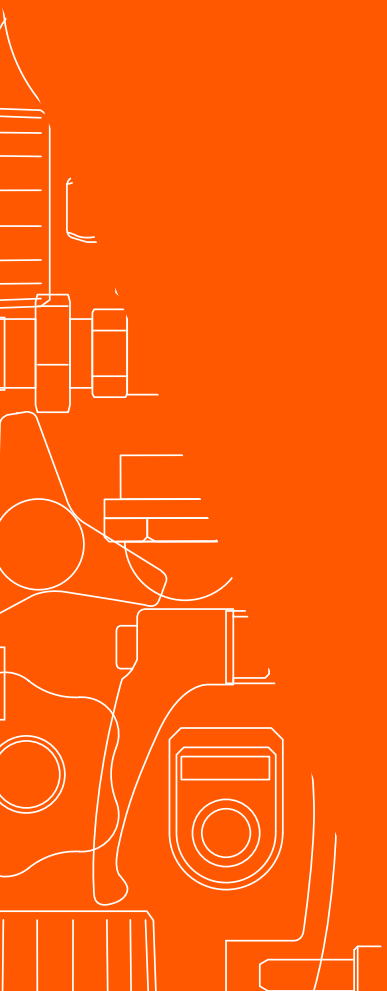

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