



monPLAST

engineered solutions for industry

ALL-IN PLAST

**CUSTOM MOLDING SOLUTIONS
AND TECHNICAL ARTICLES**

CATALOG 2026.01



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SINCE 1985

Founding of Mon Plast
production site: 3000 m²

2005

Launch of the MON FLEX™
Polypropylene Conduit



2009

ISO 9001 Certification



2010

Expansion into International Markets



2012

New production site: 2000 m²



2022

Production Powered by 100%
Renewable Energy



2023

New production site of 2200 m²,
bringing the total to 7200 m²



2024

Implementation of the 2024–2026 Industrial Plan
Total investments: €5 million
Installation of 3 new Industry 5.0 production systems



2026

Completion of the New Corporate Headquarters
Expansion of total covered area to 10,000 m²





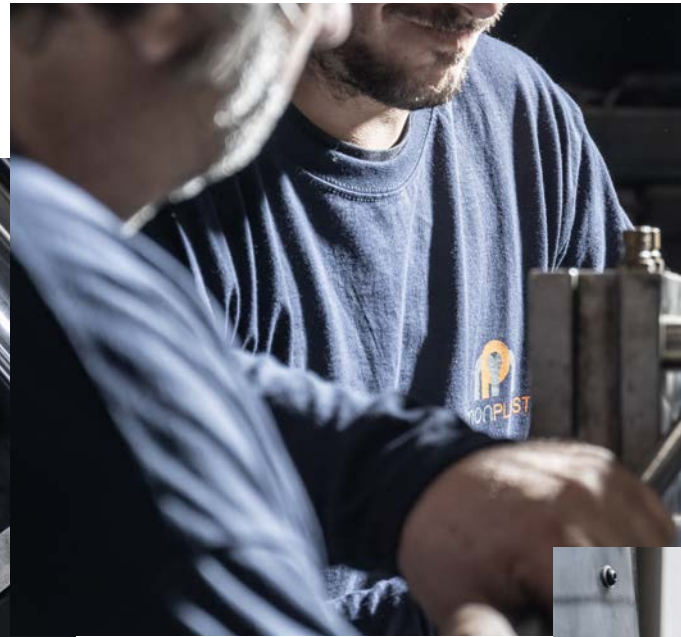
EXPERIENCE, SOLIDITY, SECURITY

WITH 40 YEARS OF EXPERTISE, **MON PLAST** IS A LEADING COMPANY IN THE PLASTIC MOLDING INDUSTRY. WE SPECIALIZE IN MANUFACTURING HIGH-QUALITY TECHNICAL COMPONENTS FOR VARIOUS INDUSTRIES, INCLUDING PLASTIC AND PLYWOOD REELS AND POLYPROPYLENE CONDUITS FOR ELECTRICAL SYSTEMS,

OUR VALUE

CUSTOMER & PARTNERSHIP ORIENTED APPROACH

We foster strong, lasting relationships through a customer-oriented approach, delivering tailored solutions and building trust-driven partnerships for mutual success.



TECHNOLOGICAL INNOVATION, STATE-OF-THE-ART EQUIPMENT

We are at the forefront of technological innovation, developing cutting-edge solutions with state-of-the-art equipment. Our mission is to deliver superior performance, efficiency, and precision, turning challenges into opportunities through advanced technology.

PRODUCTION FLEXIBILITY

We offer production flexibility, quickly adapting to changing demands with customized solutions and efficient processes to meet diverse customer needs.



ONGOING COLLABORATION

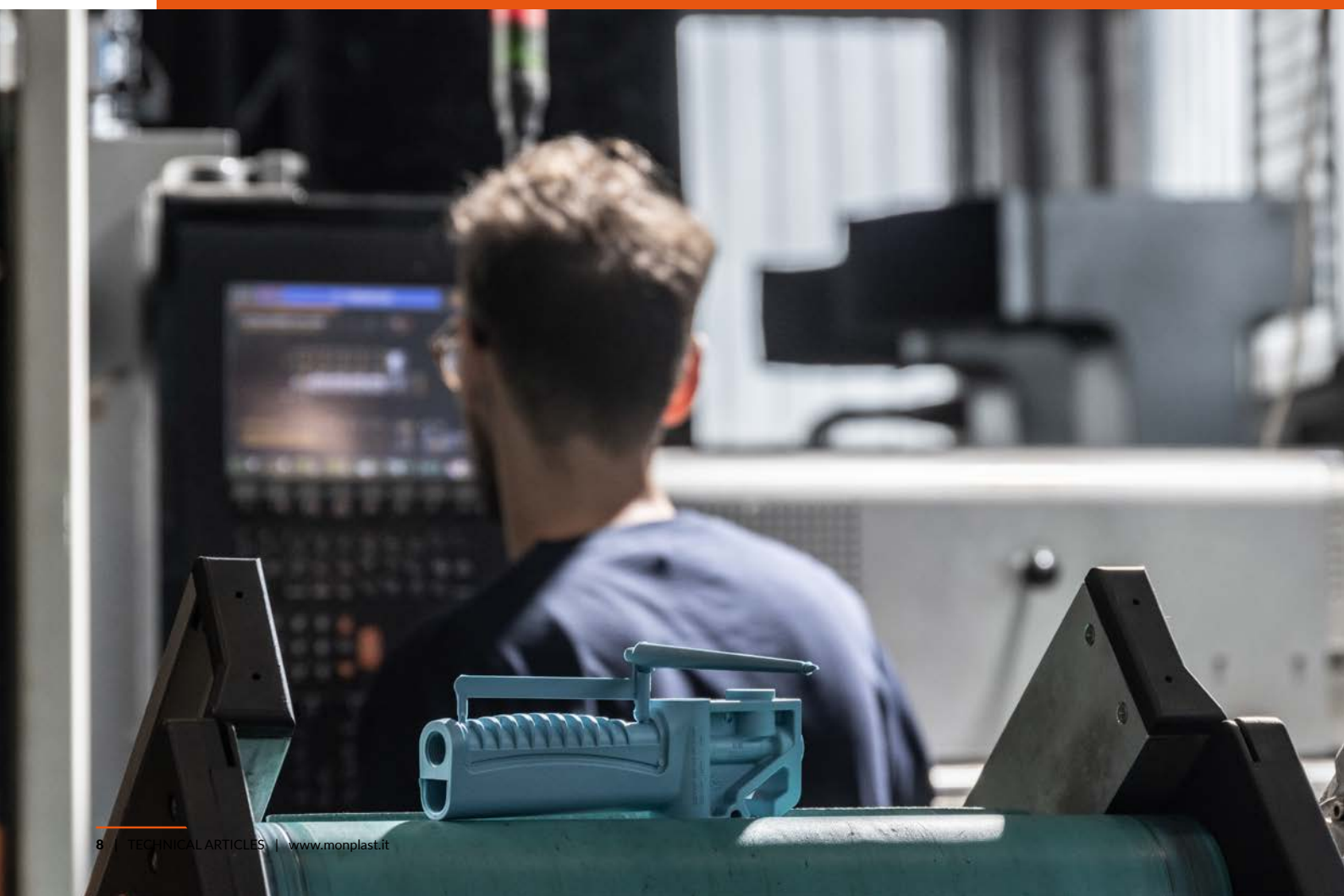
We prioritize constant collaboration, working closely with customers and partners to drive innovation, efficiency and shared success.

LEAD TIME

We ensure fast and efficient delivery, meeting deadlines with precision and reliability to exceed customer expectations.

CUSTOM MOLDING SOLUTIONS

IN ADDITION TO OUR STANDARD PRODUCTS, WE DEVELOP CUSTOMIZED SOLUTIONS TO MEET EVERY NEED. WE WORK CLOSELY WITH OUR CUSTOMERS TO DESIGN AND MANUFACTURE CUSTOM COMPONENTS, OFFERING ADJUSTMENTS IN TERMS OF DIMENSIONS, FUNCTIONALITY, AND AESTHETICS TO PRECISELY MEET THE REQUIREMENTS OF EACH SPECIFIC APPLICATION.





CUSTOMIZATIONS STANDARD PRODUCTS

The entire range, made of thermoplastic material, is designed to be extremely versatile. Every product in the catalog is available in various sizes and colors, making it easy to adapt standard items to specific aesthetic or dimensional preferences.



FEASIBILITY
STUDY



CO-DESIGN



MOLD
MANUFACTURING



MOLDING



CO-INJECTION



ASSEMBLY
AND FINISHES

CO-DESIGN

We work closely with our clients to define the specifications of the mold and the final product. Using state-of-the-art CAD software, we simulate the entire molding process to identify potential issues and opportunities for improvement, addressing them proactively during the design phase.



DEVELOPMENT OF NEW CUSTOM PRODUCTS

For more complex requirements, we work directly according to the customer's specifications, offering a high degree of customization and flexibility to create unique products. The service also extends to the finishing stages, including the option to manage product assembly and the creation of packaging kits consisting of multiple items. This tailored approach also includes, for consistent and large-scale orders, the organization of ad hoc production cells structured exclusively to support the project.

RAPID 3D PROTOTYPING

It allows you to test ergonomics and functionality before industrial production. It optimizes development time and minimizes costs by testing innovations.

LEAGUE PRE-SEASON

Produced using pilot or production molds, this process allows for the validation of the injection molding process by verifying dimensional tolerances, surface finishes, and the mechanical properties of the plastics. It is a critical step in eliminating defects before the final production run.

CO-INJECTION

An advanced technology that enables two materials to be printed in a single cycle, creating high-performance components. With the Sandwich process, one polymer forms the outer surface (skin) whilst the second forms the inner core, optimising strength, cost-effectiveness and sustainability.

METAL REPLACEMENT

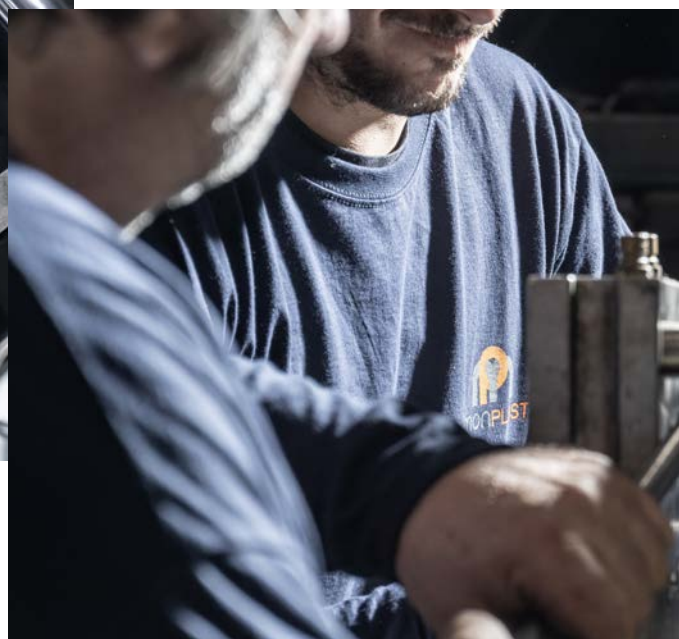
It replaces metal components with advanced engineering polymers and technopolymers. This process drastically reduces weight and production costs while ensuring high mechanical and chemical resistance. Thanks to plastic molding, complex geometries can be achieved, eliminating post-production machining and improving overall energy efficiency.



QUALITY AND CERTIFICATIONS



We have always believed in excellence, prioritizing product quality and genuine human connections. Our philosophy centers on attention to every detail, ensuring that we provide both standard and custom solutions designed to meet specific needs.

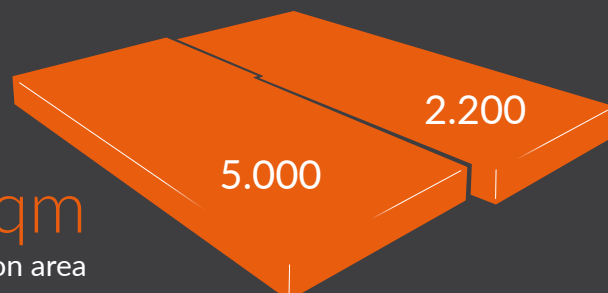


Mon Plast obtained **CSQ-ISO 9001** certification in **2008** for the manufacture and sale of thermoplastic products.



COMPANY OVERVIEW

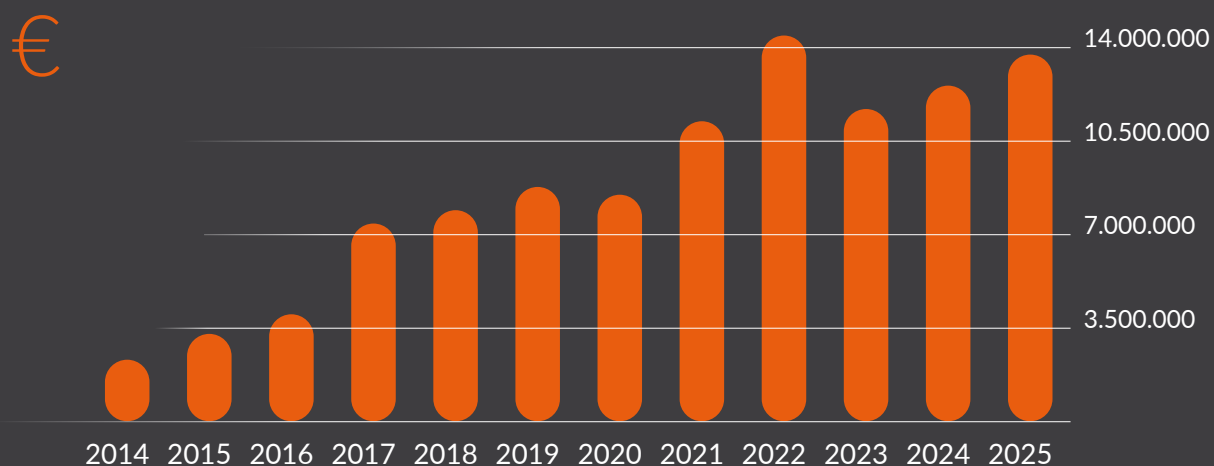
7.200sqm
production area



30+
highly qualified employees



15
impianti di stampaggio
linee di produzione





PRODUCT RANGE CIVIL AND INDUSTRIAL APPLICATIONS



CLAMPING AND LOCKING HANDWHEELS

PRECISION AND RELIABILITY
FOR EVERY APPLICATION





The clamping and locking handwheel represents the ideal solution for ensuring secure fastening and precise adjustment in a wide range of industrial and craft applications. Constructed with high-quality materials and featuring an ergonomic design, this handwheel offers optimal control in clamping and locking operations.

Material: PA6 – Polyamide



ROBUST MATERIALS

Made with resistant and durable materials, the handwheel ensures a long operational life and exceptional resistance to daily stress.



ERGONOMIC DESIGN

The ergonomic design of the handwheel offers a comfortable grip and facilitates clamping and locking operations, reducing fatigue during prolonged use.



ADJUSTMENT PRECISION

Equipped with a precise adjustment mechanism, the handwheel allows for accurate setting of the desired tension or locking, ensuring accurate and repeatable results.



APPLICATION VERSATILITY

Ideal for a wide range of applications, the handwheel is suitable for use on industrial machinery, craft tools, laboratory equipment, and more.



SECURE CLAMPING

Thanks to its robust design and reliable locking features, the handwheel ensures secure and stable clamping, minimizing the risk of unwanted movement.

3-LOBE HANDWHEEL DIAMETER 80 WITH STUD



FILE STEP
available online



material
GLASS-FIBER REINFORCED NYLON 6
RESISTANT TO OILS AND GREASES

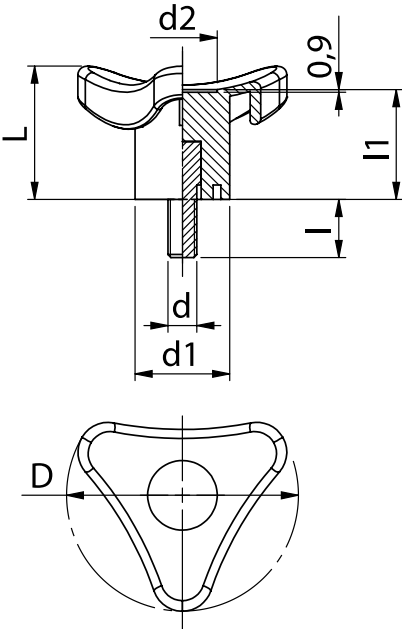
standard color
BLACK

surface
SATIN

insert
GALVANIZED STUD
(THREAD TOLERANCE 6G)

on request
• **STAINLESS STEEL PIN**

alternative colors
• **ORANGE** RAL 2004
• **BLUE** RAL 5015
• **YELLOW** RAL 1021
• **RED** RAL 3000
• **GREEN** RAL 6024
• **GREY** RAL 7035
• **BLACK** RAL 9011



CODE __ (+l)	TYPE	D	L	l1	d1	d2	d	__l	WEIGHT G
VOLVZ3PNFN80M8__	3VP/80 M8X15	80	46	37	32,6	24	M8	15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	53,5
VOLVZ3PNFN8010__	3VP/80 M10X15	80	46	37	32,6	24	M10	15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	63,4

(mm)

3-LOBE HANDWHEEL DIAMETER 80 WITH THREADED BUSHING



FILE STEP
available online



material
GLASS-FIBER REINFORCED NYLON 6
RESISTANT TO OILS AND GREASES

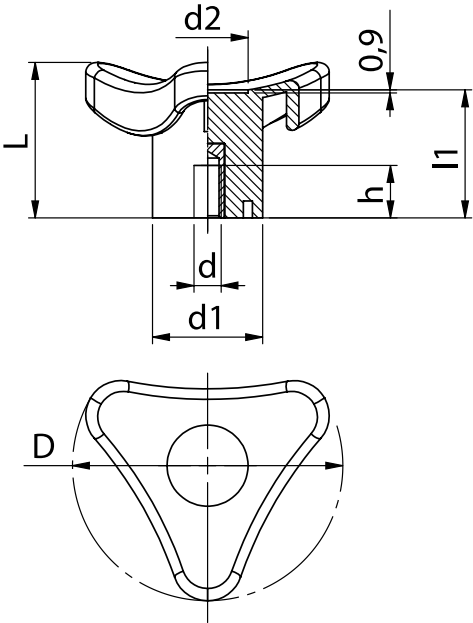
standard color
BLACK

surface
SATIN

insert
BRASS BUSHING
(THREAD TOLERANCE 6G)

on request
• **STAINLESS STEEL BUSHING**
• **GALVANIZED STEEL BUSHING**

alternative colors
• **ORANGE** RAL 2004
• **BLUE** RAL 5015
• **YELLOW** RAL 1021
• **RED** RAL 3000
• **GREEN** RAL 6024
• **GREY** RAL 7035
• **BLACK** RAL 9011



CODE	TYPE	D	L	l1	d1	d2	d	h	WEIGHT G
VOLBF3PNFN80M800	3VB/80 M8	80	46	37	32,6	24	M8	15,5	49,2
VOLBF3PNFN801000	3VB/80 M10	80	46	37	32,6	24	M10	15,5	53,4

(mm)



FILE STEP
available online

OVAL HANDWHEEL WITH THREADED BUSHING



material
GLASS-FIBER REINFORCED NYLON 6
RESISTANT TO OILS AND GREASES

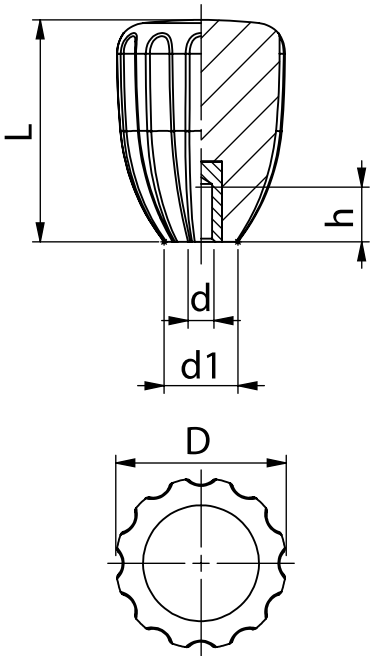
standard color
BLACK

surface
SATIN

insert
BRASS BUSHING
(THREAD TOLERANCE 6G)

on request
• **STAINLESS STEEL BUSHING**
• **GALVANIZED STEEL BUSHING**

alternative colors
• **ORANGE** RAL 2004
• **BLUE** RAL 5015
• **YELLOW** RAL 1021
• **RED** RAL 3000
• **GREEN** RAL 6024
• **GREY** RAL 7035
• **BLACK** RAL 9011



CODE	TYPE	D	L	d1	d	h	WEIGHT G
VOLBF00NFN53M800	VO/52 M8	53	69	M8	23,5	17	25
VOLBF00NFN531000	VO/52 M10	53	69	M10	23,5	17	28,3

(mm)



5-LOBE HANDWHEEL WITH STUD



FILE STEP
available online



material
GLASS-FIBER REINFORCED NYLON 6

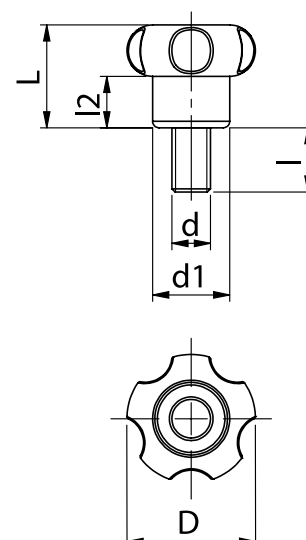
on request
• **STAINLESS STEEL PIN**

standard color
BLACK

alternative colors
• **ORANGE** RAL 2004
• **BLUE** RAL 5015
• **YELLOW** RAL 1021
• **RED** RAL 3000
• **GREEN** RAL 6024
• **GREY** RAL 7035
• **BLACK** RAL 9011

surface
SATIN

insert
GALVANIZED STUD



CODE __ (+l)	TYPE	D	L	d	__l	d1	l2
VOLVZ5LNFN20M4__	5VP/20 M4X10	20	16	M4	10 / 15 / 20 / 25 / 30	12	8
VOLVZ5LNFN20M5__	5VP/20 M5X10	20	16	M5	10 / 15 / 20 / 25 / 30 / 40	12	8
VOLVZ5LNFN20M6__	5VP/20 M6X10	20	16	M6	10 / 15 / 20 / 25 / 30	12	8
VOLVZ5LNFN30M5__	5VP/30 M5X10	30	21,5	M5	10 / 15 / 20 / 25 / 30	17	8,7
VOLVZ5LNFN30M6__	5VP/30 M6X10	30	21,5	M6	10 / 15 / 20 / 25 / 30 / 35 / 40	17	8,7
VOLVZ5LNFN30M8__	5VP/30 M8X10	30	21,5	M8	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50	17	8,7
VOLVZ5LNFN40M6__	5VP/40 M6X10	40	27,5	M6	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	17	12,5
VOLVZ5LNFN40M8__	5VP/40 M8X10	40	27,5	M8	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	17	12,5
VOLVZ5LNFN4010__	5VP/40 M10X15	40	27,5	M10	15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	17	12,5
VOLVZ5LNFN50M8__	5VP/50 M8X15	50	31	M8	15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	22	11,5
VOLVZ5LNFN5010__	5VP/50 M10X15	50	31	M10	15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60 / 65 / 70 / 75 / 80	22	11,5
VOLVZ5LNFN60M8__	5VP/60 M8X15	60	32,5	M8	15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	25	9,5
VOLVZ5LNFN6010__	5VP/60 M10X15	60	32,5	M10	15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	25	9,5
VOLVZ5LNFN6012__	5VP/60 M12X15	60	32,5	M12	15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	25	9,5

(mm)



5-LOBE HANDWHEEL WITH BLIND THREADED BUSHING



FILE STEP
available online



material

GLASS-FIBER REINFORCED NYLON 6
RESISTANT TO OILS AND GREASES

on request

• **STAINLESS STEEL BUSHING**
• **GALVANIZED STEEL BUSHING**

standard color

BLACK

alternative colors

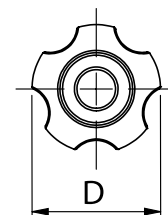
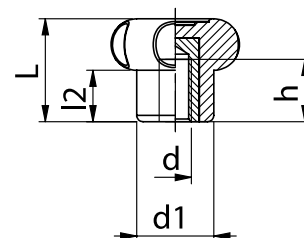
• **ORANGE** RAL 2004
• **BLUE** RAL 5015
• **YELLOW** RAL 1021
• **RED** RAL 3000
• **GREEN** RAL 6024
• **GREY** RAL 7035
• **BLACK** RAL 9011

surface

SATIN

insert

BRASS BUSHING
(THREAD TOLERANCE 6G)



CODE	TYPE	D	L	d	h	d1	l2
VOLBF5LNFN20M400	5VB/20 M4	20	16	M4	9,7	12	8
VOLBF5LNFN20M500	5VB/20 M5	20	16	M5	9,7	12	8
VOLBF5LNFN20M600	5VB/20 M6	20	16	M6	9,7	12	8
VOLBF5LNFN30M500	5VB/30 M5	30	21,5	M5	15	17	8,7
VOLBF5LNFN30M600	5VB/30 M6	30	21,5	M6	15	17	8,7
VOLBF5LNFN30M800	5VB/30 M8	30	21,5	M8	15	17	8,7
VOLBF5LNFN40M500	5VB/40 M5	40	27,5	M5	15,5	17	12,5
VOLBF5LNFN40M600	5VB/40 M6	40	27,5	M6	15,5	17	12,5
VOLBF5LNFN40M800	5VB/40 M8	40	27,5	M8	15,5	17	12,5
VOLBF5LNFN40M1000	5VB/40 M10	40	27,5	M10	15,5	17	12,5
VOLBF5LNFN50M600	5VB/50 M6	50	31	M6	15	22	11,5
VOLBF5LNFN50M800	5VB/50 M8	50	31	M8	15	22	11,5
VOLBF5LNFN50M1000	5VB/50 M10	50	31	M10	15	22	11,5
VOLBF5LNFN50M1200	5VB/50 M12	50	31	M12	15	22	11,5
VOLBF5LNFN60M800	5VB/60 M8	60	32,5	M8	15	25	9,5
VOLBF5LNFN60M1000	5VB/60 M10	60	32,5	M10	15	25	9,5
VOLBF5LNFN60M1200	5VB/60 M12	60	32,5	M12	15	25	9,5

(mm)



5-LOBE HANDWHEEL WITH THREADED BUSHING THROUGH HOLE



FILE STEP
available online



material

GLASS-FIBER REINFORCED NYLON 6
RESISTANT TO OILS AND GREASES

standard color

BLACK

surface

SATIN

insert

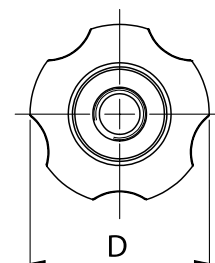
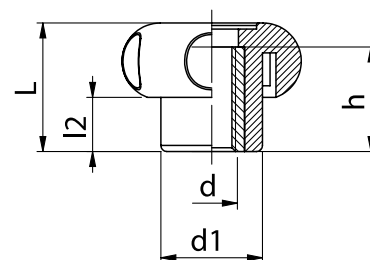
BRASS THROUGH HOLE BUSHING
(THREAD TOLERANCE 6G)

on request

• **STAINLESS STEEL BUSHING**
• **GALVANIZED STEEL BUSHING**

alternative colors

• **ORANGE** RAL 2004
• **BLUE** RAL 5015
• **YELLOW** RAL 1021
• **RED** RAL 3000
• **GREEN** RAL 6024
• **GREY** RAL 7035
• **BLACK** RAL 9011



CODE	TYPE	D	L	d	h	d1	l2
VOLBP5LNFN30M500	5VB/30 M5FP	30	21,5	M5	14,5	17	8,7
VOLBP5LNFN30M600	5VB/30 M6FP	30	21,5	M6	16	17	8,7
VOLBP5LNFN30M800	5VB/30 M8FP	30	21,5	M8	17,5	17	8,7
VOLBP5LNFN40M600	5VB/40 M6FP	40	27,5	M6	16	17	12,5
VOLBP5LNFN40M800	5VB/40 M8FP	40	27,5	M8	17,9	17	12,5
VOLBP5LNFN40I1000	5VB/40 M10FP	40	27,5	M10	17	17	12,5
VOLBP5LNFN50M600	5VB/50 M6FP	50	31	M6	16	22	11,7
VOLBP5LNFN50M800	5VB/50 M8FP	50	31	M8	17,5	22	11,7
VOLBP5LNFN50I1000	5VB/50 M10FP	50	31	M10	17	22	11,7
VOLBP5LNFN60M800	5VB/60 M8FP	60	32,5	M8	17,5	25	9,5
VOLBP5LNFN60I1000	5VB/60 M10FP	60	32,5	M10	17	25	9,5
VOLBP5LNFN60I1200	5VB/60 M12FP	60	32,5	M12	21,5	25	9,5

(mm)



6-LOBE HANDWHEEL WITH STUD



FILE STEP
available online



material

GLASS-FIBER REINFORCED NYLON 6
RESISTANT TO OILS AND GREASES

standard color

BLACK

surface

SATIN

insert

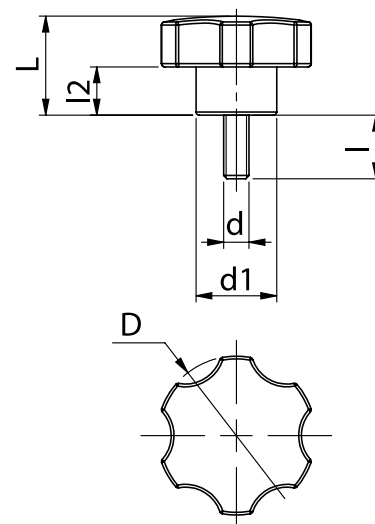
GALVANIZED STUD
(THREAD TOLERANCE 6G)

on request

• **STAINLESS STEEL PIN**

alternative colors

• **ORANGE** RAL 2004
• **BLUE** RAL 5015
• **YELLOW** RAL 1021
• **RED** RAL 3000
• **GREEN** RAL 6024
• **GREY** RAL 7035
• **BLACK** RAL 9011



CODE __(+l)	TYPE	D	L	d	__l	d1	l2
VOLVZ6LNFN25M4__	6VPA/25 M4X10	25	15,6	M4	10 / 15 / 20 / 25 / 30 / 35 / 40	12,7	7,6
VOLVZ6LNFN25M5__	6VPA/25 M5X10	25	15,6	M5	10 / 15 / 20 / 25 / 30 / 35 / 40	12,7	7,6
VOLVZ6LNFN25M6__	6VPA/25 M6X10	25	15,6	M6	10 / 15 / 20 / 25 / 30 / 35 / 40	12,7	7,6
VOLVZ6LNFN37M5__	6VPA/35 M5X15	37,5	19	M5	15 / 20 / 25 / 30 / 35 / 40 / 45 / 50	18,3	8
VOLVZ6LNFN37M6__	6VPA/35 M6X10	37,5	19	M6	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	18,3	8
VOLVZ6LNFN37M8__	6VPA/35 M8X10	37,5	19	M8	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	18,3	8
VOLVZ6LNFN37I0__	6VPA/35 10X15	37,5	19	M10	15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	18,3	8
VOLVZ6LNFN45M6__	6VPA/45 M6X10	45,5	24	M6	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	21,5	11,5
VOLVZ6LNFN45M8__	6VPA/45 M8X15	45,5	24	M8	15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	21,5	11,5
VOLVZ6LNFN45I0__	6VPA/45 M10X15	45,5	24	M10	15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	21,5	11,5
VOLVZ6LNFN55M6__	6VPA/55 M6X15	55,5	29,5	M6	15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	24,8	16,5
VOLVZ6LNFN55M8__	6VPA/55 M8X15	55,5	29,5	M8	15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	24,8	16,5
VOLVZ6LNFN55I0__	6VPA/55 M10X15	55,5	29,5	M10	15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	24,8	16,5
VOLVZ6LNFN55I2__	6VPA/55 M12X15	55,5	29,5	M12	15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	24,8	16,5

(mm)



6-LOBE HANDWHEEL WITH BLIND THREADED BUSHING



FILE STEP
available online



material
GLASS-FIBER REINFORCED NYLON 6
RESISTANT TO OILS AND GREASES

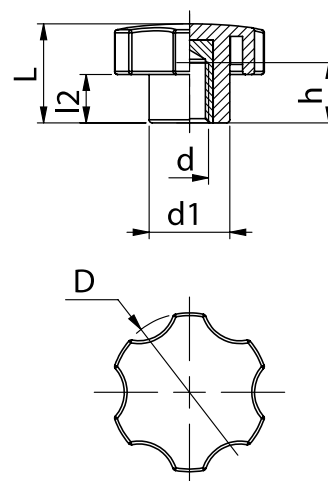
standard color
BLACK

surface
SATIN

insert
BRASS BUSHING
(THREAD TOLERANCE 6G)

on request
• **STAINLESS STEEL BUSHING**
• **GALVANIZED STEEL BUSHING**

alternative colors
• **ORANGE** RAL 2004
• **BLUE** RAL 5015
• **YELLOW** RAL 1021
• **RED** RAL 3000
• **GREEN** RAL 6024
• **GREY** RAL 7035
• **BLACK** RAL 9011



CODE	TYPE	D	L	d	h	d1	l2
VOLBF6LNFN25M500	6VBA/25 M5	25	15,6	M5	9,5	12,7	7,6
VOLBF6LNFN25M600	6VBA/25 M6	25	15,6	M6	9,5	12,7	7,6
VOLBF6LNFN37M500	6VBA/35 M5	37,5	19	M5	10	18,3	8
VOLBF6LNFN37M600	6VBA/35 M6	37,5	19	M6	10	18,3	8
VOLBF6LNFN37M800	6VBA/35 M8	37,5	19	M8	10	18,3	8
VOLBF6LNFN371000	6VBA/35 M10	37,5	19	M10	10	18,3	8
VOLBF6LNFN45M600	6VBA/45 M6	45,5	24	M6	9,5	21,5	11,5
VOLBF6LNFN45M800	6VBA/45 M8	45,5	24	M8	13,5	21,5	11,5
VOLBF6LNFN451000	6VBA/45 M10	45,5	24	M10	13,5	21,5	11,5
VOLBF6LNFN55M800	6VBA/55 M8	55,5	29,5	M8	15,5	24,8	16,5
VOLBF6LNFN551000	6VBA/55 M10	55,5	29,5	M10	15,5	24,8	16,5
VOLBF6LNFN551200	6VBA/55 M12	55,5	29,5	M12	15,5	24,8	16,5

(mm)

6-LOBE BAKELITE HANDWHEEL WITH STUD



FILE STEP
available online

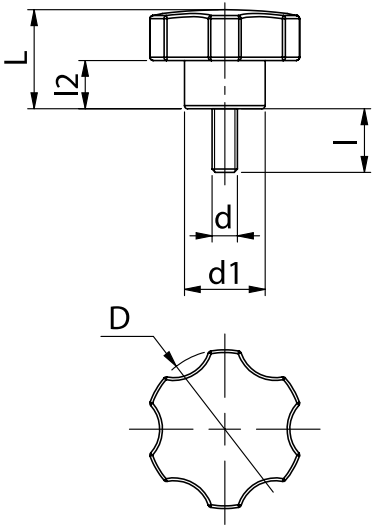


material
BAKELITE

standard color
BLACK

surface
GLOSSY

insert
**ZINC-PLATED STEEL
THREADED STUD**



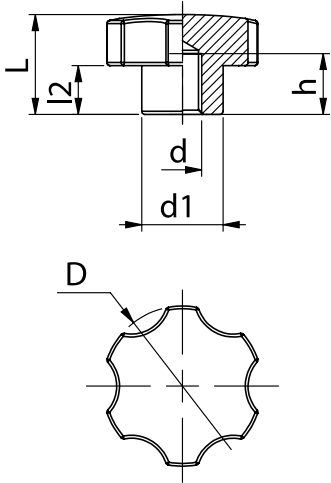
CODE __ (+l)	TYPE	D	d1	L	l2	d	l
VOLVZ6LBKN30M5__	zinc stud 6 lobes bakelite 30 m	30	17	25	11	M5	20/ 30 / 40 / 50 / 60
VOLVZ6LBKN40M6__	zinc stud 6 lobes bakelite 40 m	40	21	28	13	M6	20/ 30 / 40 / 50 / 60
VOLVZ6LBKN40M8__	zinc stud 6 lobes bakelite 40 m	40	21	28	13	M8	20/ 30 / 40 / 50 / 60
VOLVZ6LBKN5010__	zinc stud 6 lobes bakelite 50 m	50	23	34	12	M10	20/ 30 / 40 / 50
VOLVZ6LBKN50M8__	zinc stud 6 lobes bakelite 50 m	50	23	34	12	M8	20/ 30 / 40 / 50 / 60
VOLVZ6LBKN6510__	zinc stud 6 lobes bakelite 60,5	60,5	28	40	15	M10	20/ 30 / 40 / 50 / 60
VOLVZ6LBKN6512__	zinc stud 6 lobes bakelite 60,5	60,5	28	40	15	M12	20/ 30 / 40 / 50 / 60
VOLVZ6PBKN5010__	zinc stud 6 lobes bakelite 50	50	23	34	12	M10	60

(mm)

6-LOBE BAKELITE HANDWHEEL WITH BLIND THREADED BUSHING



FILE STEP
available online



material
BAKELITE

standard color
BLACK

surface
GLOSSY

insert
BRASS BUSHING

CODE	TYPE	D	d1	L	l2	d	h
VOLBF6LBKN30M500	threaded bushing 6 lobes bakelite	30	17	25	11	M5	10
VOLBF6LBKN40M600	threaded bushing 6 lobes bakelite	40	23	28	13	M6	10
VOLBF6LBKN40M800	threaded bushing 6 lobes bakelite	40	23	28	13	M7	13
VOLBF6LBKN501000	threaded bushing 6 lobes bakelite	50	23	33	13	M10	13
VOLBF6LBKN50M800	threaded bushing 6 lobes bakelite	50	23	33	13	M08	15
VOLBF6LBKN601000	threaded bushing 6 lobes bakelite	60	31	39	18	M10	15
VOLBF6LBKN601200	threaded bushing 6 lobes bakelite	60	31	39	18	M12	13

(mm)

KNURLED HANDWHEEL WITH STUD



FILE STEP
available online



material
GLASS-FIBER REINFORCED NYLON 6
RESISTANT TO OILS AND GREASES

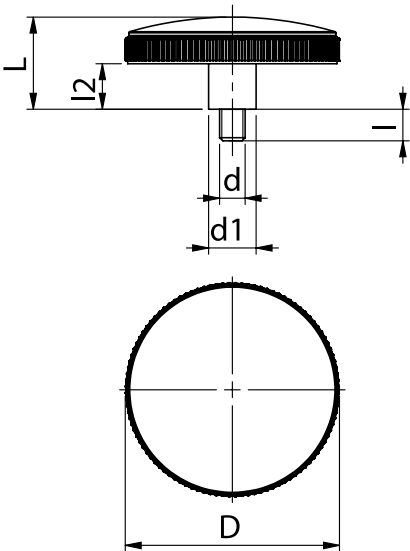
standard color
BLACK

surface
SATIN

insert
GALVANIZED STUD

on request
• **STAINLESS STEEL PIN**

alternative colors
• **ORANGE** RAL 2004
• **BLUE** RAL 5015
• **YELLOW** RAL 1021
• **RED** RAL 3000
• **GREEN** RAL 6024
• **GREY** RAL 7035
• **BLACK** RAL 9011



CODE __ (+I)	TYPE	D	L	d1	l2	d	__I	WEIGHT G
VOLVZ0ZNFN80M8__	VZ2/67 M8X10	67	22,35	14,80	8,35	M8	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	28,2
VOLVZ0ZNFN8010__	VZ2/67 M10X10	67	22,35	14,80	8,35	M10	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	28,3

(mm)

KNURLED HANDWHEEL WITH THREADED BUSHING



FILE STEP
available online



material
GLASS-FIBER REINFORCED NYLON 6
RESISTANT TO OILS AND GREASES

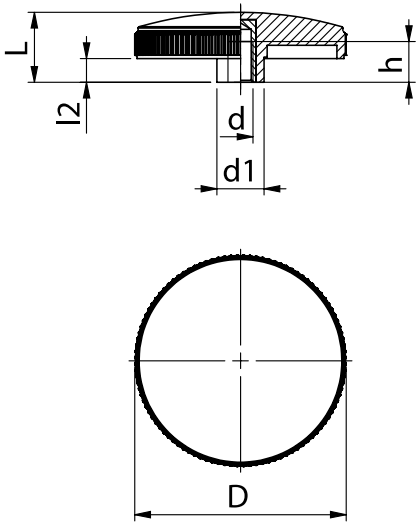
standard color
BLACK

surface
SATIN

insert
BRASS BUSHING

on request
• **STAINLESS STEEL BUSHING**
• **GALVANIZED STEEL BUSHING**

alternative colors
• **ORANGE** RAL 2004
• **BLUE** RAL 5015
• **YELLOW** RAL 1021
• **RED** RAL 3000
• **GREEN** RAL 6024
• **GREY** RAL 7035
• **BLACK** RAL 9011



CODE	TYPE	L	D	d	h	d1	l2	WEIGHT G
VOLBF0ZNFN21M800	VZ1/67 M8	53	21	M8	50	15	8,35	11,1

(mm)

WING KNOB WITH STUD



FILE STEP
available online



material
GLASS-FIBER REINFORCED NYLON 6
RESISTANT TO OILS AND GREASES

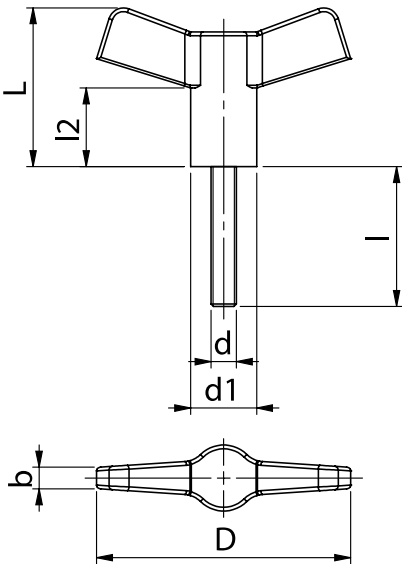
standard color
BLACK

surface
SATIN

insert
GALVANIZED STUD

on request
• **STAINLESS STEEL PIN**

alternative colors
• **ORANGE** RAL 2004
• **BLUE** RAL 5015
• **YELLOW** RAL 1021
• **RED** RAL 3000
• **GREEN** RAL 6024
• **GREY** RAL 7035
• **BLACK** RAL 9011



CODE	TYPE	D	L	b	d	l	d1	l2	WEIGHT G
VOLVZ0FNFN001040	VF/110 M10X40	100	62,5	8,6	M10	40	26	31	109,5
VOLVZ0FNFN001045	VF/110 M10X45	100	62,5	8,6	M10	45	26	31	112
VOLVZ0FNFN001050	VF/110 M10X50	100	62,5	8,6	M10	50	26	31	114,5
VOLVZ0FNFN001055	VF/110 M10X55	100	62,5	8,6	M10	55	26	31	117

(mm)

3-SPOKE HANDWHEEL WITH HUB



FILE STEP
available online

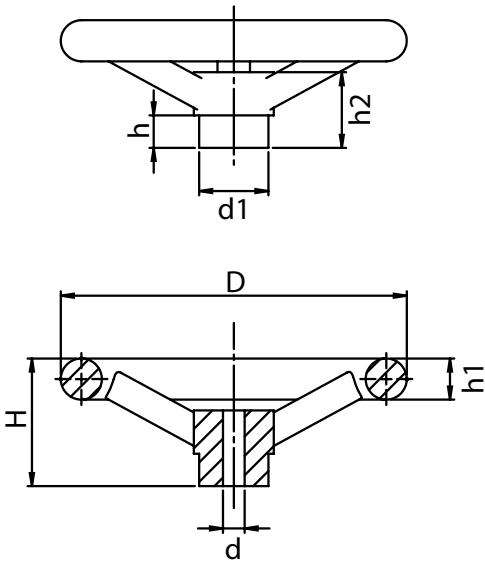


material
BAKELITE

standard color
BLACK

surface
GLOSSY

insert
STEEL HUB



CODE	TYPE	D	H	h	h2	h1	d	d1
VOL000RBKN00D800	3-SP. HANDW. BAKELITE 100 D800	100	46	14	31	12	8	24
VOL000RBKN12D800	3-SP. HANDW. BAKELITE 120 D800	120	49	15	31	12	8	24
VOL000RBKN141000	3-SP. HANDW. BAKELITE 140 D1000	140	55	17	35	15	10	32
VOL000RBKN161000	3-SP. HANDW. BAKELITE 160 D1000	160	59	19	35	15	10	32
VOL000RBKN181000	3-SP. HANDW. BAKELITE 180 D1000	180	69	23	42	17	10	40
VOL000RBKN201000	3-SP. HANDW. BAKELITE 200 D1000	200	75	24	42	17	10	40
VOL000RBKN251400	3-SP. HANDW. BAKELITE 250 D1400	250	78	28	51	20	14	49
VOL000RBKN301400	3-SP. HANDW. BAKELITE 300 D1400	300	91	30	53	20	14	58

(mm)

GRIPS

MAXIMUM CONTROL
IN EVERY SITUATION

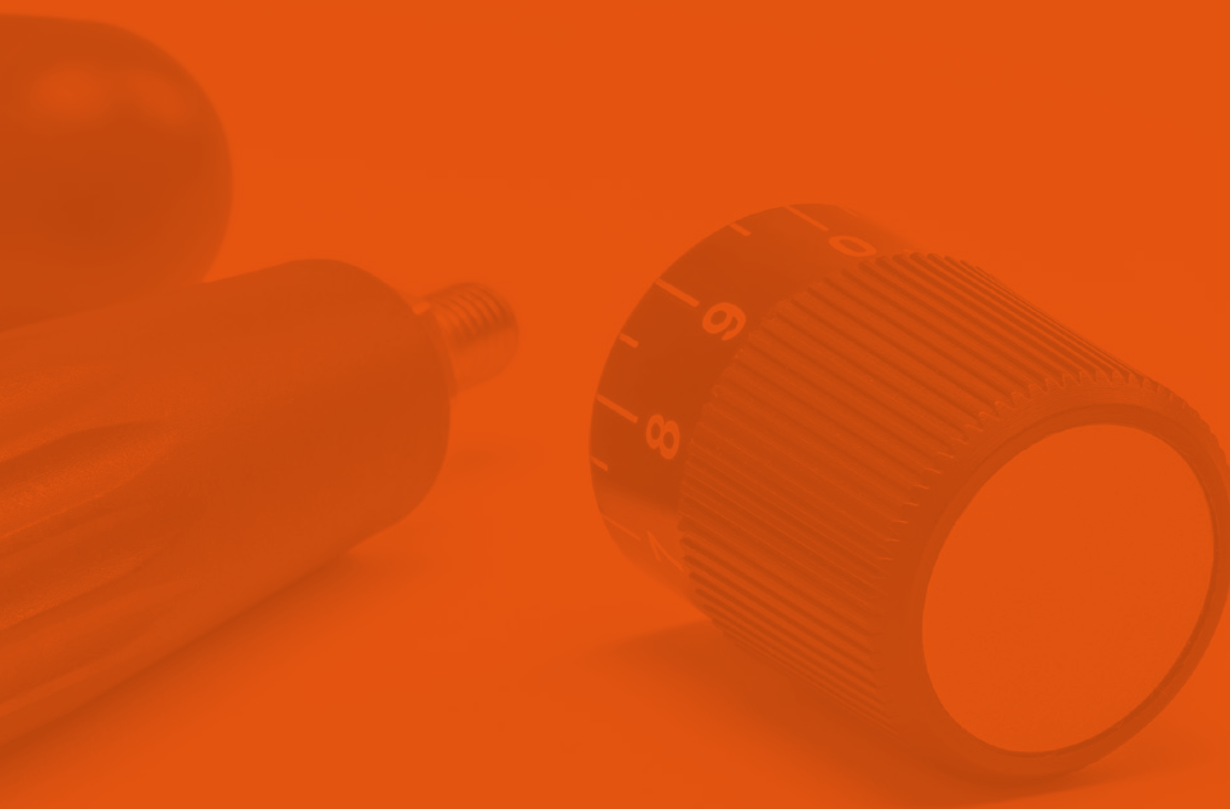




The grips in our range are designed to offer maximum control in every situation. Made with high-quality non-slip materials, these grips ensure a secure hold, even in the most demanding conditions.



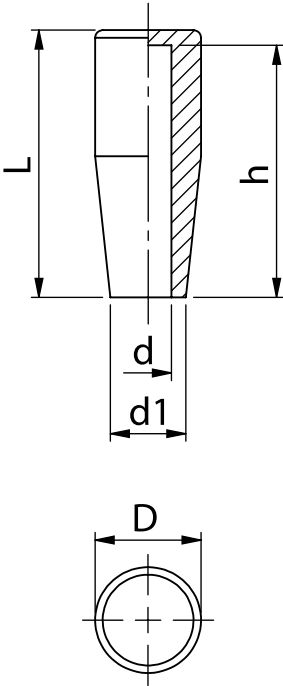
IZ KNURLED GRIP WITH GRADUATED SCALE
ICP CONICAL GRIP
ICF THROUGH-HOLE CONICAL GRIP
ICG CYLINDRICAL STUD GRIP
MC CYLINDRICAL GRIP



CYLINDRICAL GRIP



FILE STEP
available online



material
POLYETHYLENE

standard color
BLACK

surface
SATIN

- alternative colors
- **ORANGE** RAL 2004
 - **BLUE** RAL 5015
 - **YELLOW** RAL 1021
 - **RED** RAL 3000
 - **GREEN** RAL 6024
 - **GREY** RAL 7035
 - **BLACK** RAL 9011

CODE	TYPE	L	D	d	h	d1	WEIGHT G
IMPMC0DPEN532200	MC/53X22 D8,5	53	21	9,3	50	15	11,1

(mm)

CONICAL GRIP WITH STUD AND NUT



FILE STEP
available online



material
GLASS-FIBER REINFORCED NYLON 6

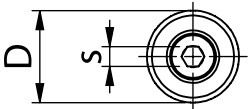
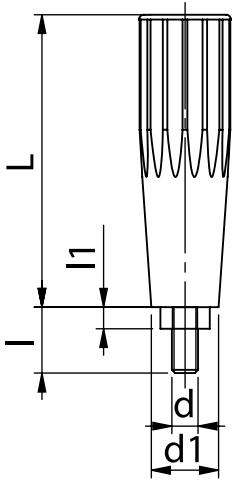
standard color
BLACK

surface
SATIN

insert
**ZINC-PLATED STUD
AND ZINC-PLATED NUT**

on request
STAINLESS STEEL STUD AND NUT

- alternative colors
- **ORANGE** RAL 2004
 - **BLUE** RAL 5015
 - **YELLOW** RAL 1021
 - **RED** RAL 3000
 - **GREEN** RAL 6024
 - **GREY** RAL 7035
 - **BLACK** RAL 9011



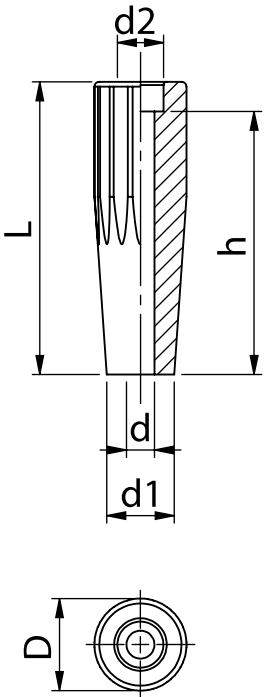
CODE	TYPE	L	D	d	l	d1	l1	s	WEIGHT G
IMPVD0CNFN2889M8	ICG/28X87 M8	89	28	M8	20	20,5	6,5	6	90
IMPVD0CNFN288910	ICG/28X87 M10	89	28	M10	22	20,5	8	8	100

(mm)

CONICAL GRIP WITH THROUGH HOLE



FILE STEP
available online



material
GLASS-FIBER REINFORCED NYLON 6

standard color
BLACK

surface
SATIN

- alternative colors
- **ORANGE** RAL 2004
 - **BLUE** RAL 5015
 - **YELLOW** RAL 1021
 - **RED** RAL 3000
 - **GREEN** RAL 6024
 - **GREY** RAL 7035
 - **BLACK** RAL 9011

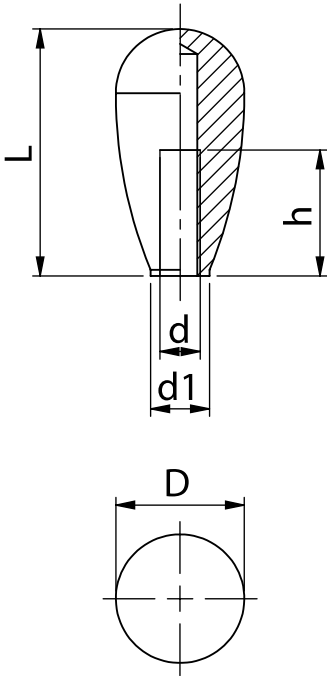
CODE	TYPE	L	D	d	h	d1	d2	WEIGHT G
IMPFP0CNFN2889M8	ICF/28X87 D.8	89	28	M8	80	20,5	14	45
IMPFP0CNFN288910	ICF/28X87 D.10	89	28	M10	78	20,5	17	40
IMPFP0CNFN288914	ICF/28X87 D.14	89	28	M14	78,7	20,5	21,5	37
IMPFP0CNFN288916	ICF/28X87 D.16	89	28	M16	78,7	20,5	24,5	35

(mm)

CONICAL GRIP



FILE STEP
available online



material
POLYETHYLENE

standard color
BLACK

surface
SATIN

- alternative colors
- **ORANGE** RAL 2004
 - **BLUE** RAL 5015
 - **YELLOW** RAL 1021
 - **RED** RAL 3000
 - **GREEN** RAL 6024
 - **GREY** RAL 7035
 - **BLACK** RAL 9011

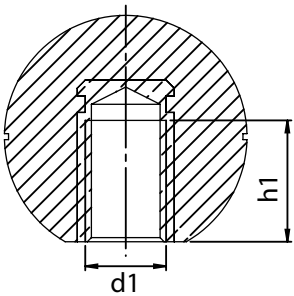
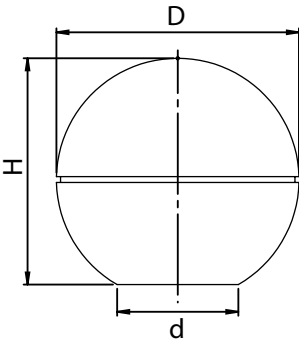
CODE	TYPE	L	D	d	h	d1	WEIGHT G
IMPCPOCPEN2550M6	ICP/25X50 M6	49	25,5	M6	25	11,7	13,4
IMPCPOCPEN2550M8	ICP/25X50 M8	49	25,5	M8	25	11,7	13,4

(mm)

BAKELITE BALL KNOB WITH THREADED BUSHING



FILE STEP
available online



material
BAKELITE

standard color
BLACK

surface
GLOSSY

insert
BRASS BUSHING

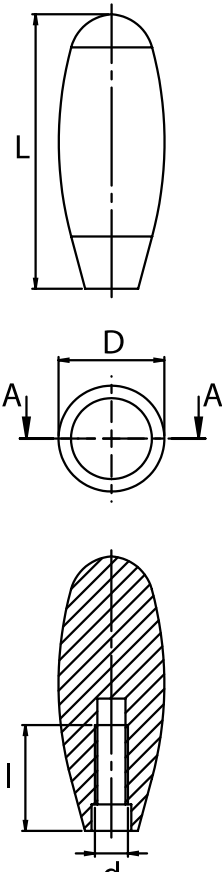
CODE	TYPE	D	H	d	d1	h1
IMPBF0SBKN1800M4	Threaded Bushing Ball 18X00 M4	18	17	8,5	M4	8
IMPBF0SBKN1800M5	Threaded Bushing Ball 18X00 M5	18	17	8,5	M5	8
IMPBF0SBKN2600M6	Threaded Bushing Ball 26X00 M6	26	24	12	M6	13
IMPBF0SBKN2600M8	Threaded Bushing Ball 26X00 M8	26	24	12	M8	13
IMPBF0SBKN300010	Threaded Bushing Ball 30X00 M10	30	28	15	M10	15
IMPBF0SBKN350010	Threaded Bushing Ball 35X00 M10	35	32	14	M10	15
IMPBF0SBKN3500M8	Threaded Bushing Ball 35X00 M8	35	32	14	M8	13,5
IMPBF0SBKN400010	Threaded Bushing Ball 40X00 M10	40	37	21	M10	15
IMPBF0SBKN400012	Threaded Bushing Ball 40X00 M12	40	37	21	M12	18

(mm)

CONICAL BAKELITE GRIP



FILE STEP
available online



material
BAKELITE

surface
GLOSSY

standard color
BLACK

CODE	TYPE	L	D	l	d
IMPIF0DBKN256510	Cylindrical Grip 25X65 M10	65	25	26	M10
IMPIF0DBKN277410	Cylindrical Grip 27X74 M10	74	27	40	M10
IMPIF0DBKN277412	Cylindrical Grip 27X74 M12	74	27	40	M12
IMPIF0DBKN328310	Cylindrical Grip 32X83 M10	83	32	32	M10
IMPIF0DBKN328312	Cylindrical Grip 32X83 M12	83	32	32	M12
IMPIF0DBKN379510	Cylindrical Grip 37X95 M10	95	37	50	M10
IMPIF0DBKN379512	Cylindrical Grip 37X95 M12	95	37	50	M12
IMPIF0DBKN379514	Cylindrical Grip 37X95 M14	95	37	50	M14

(mm)

KNURLED GRIP WITH GRADUATED SCALE



FILE STEP
available online

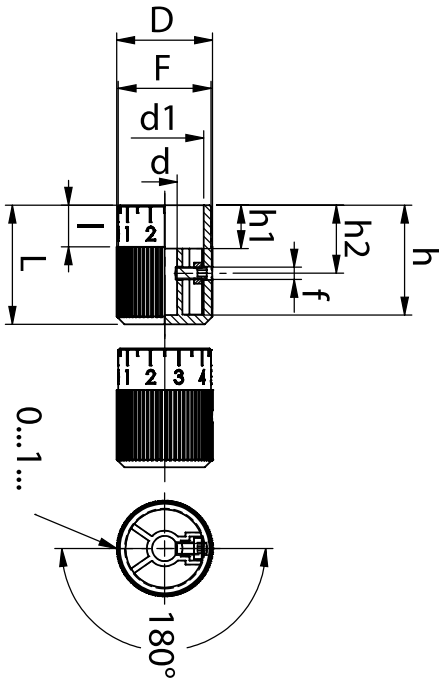


material
NYLON 6

standard color
BLACK

surface
SATIN

- alternative colors
- **ORANGE** RAL 2004
 - **BLUE** RAL 5015
 - **YELLOW** RAL 1021
 - **RED** RAL 3000
 - **GREEN** RAL 6024
 - **GREY** RAL 7035
 - **BLACK** RAL 9011



CODE	TYPE	D	F	L	l	d	h	d1	h1	h2	f	WEIGHT G
IMPSG0ZN6N250000	IZ/25	26,5	25	30	12	6,15	28,45	23,5	12	16	M4	7
IMPSG0ZN6N300000	IZ/30	31	30	38,5	13,5	8,15	35,5	25,3	14	22	M4	9,1

(mm)



HANDLES

LIGHTNESS, ROBUSTNESS,
AND RESISTANCE





PA6 Industrial Bridge Handles represent the optimal choice for industrial applications requiring a balance between lightness and robustness.

Made of polyamide 6 (PA6), these handles offer a lightweight yet durable solution, ideal for industrial equipment and devices operating in demanding environments.



KEY FEATURES

- Resistant material: polyamide 6 (PA6) provides the handles with remarkable structural strength while maintaining a light weight. Also available in other polyethylenes upon request
- Bridge design: the bridge structure ensures uniform force distribution, providing maximum robustness to the handles.
- Chemical resistance: PA6 handles are designed to resist chemical agents, making them suitable for a wide range of industrial environments.



IDEAL APPLICATIONS

- Industrial containers.
- Electrical and mechanical equipment.
- Light lifting devices.



KEY BENEFITS

- Lightness: ideal for applications requiring lightweight materials.
- Robustness: bridge structure for optimal strength.
- Versatility: suitable for various industrial contexts thanks to the chemical resistance of PA6.



INSTALLATION AND MAINTENANCE

- Easy installation: adaptable to different surfaces with simple installation.
- Minimal maintenance: the inherent resistance of PA6 requires little maintenance over time.



CUSTOMIZATION AND MINIMUM QUANTITIES

- Customizable design: possibility to customize the design according to customer needs.
- Minimum order quantity: please refer to the purchase terms for minimum quantities.
- In short, PA6 industrial bridge handles combine lightness, robustness, and chemical resistance, offering a versatile solution to meet the most demanding industrial needs



FILE STEP
available online

MT PLASTIC HANDLE WITH THREADED BUSHING



material
GLASS-FIBER REINFORCED NYLON 6
RESISTANT TO OILS AND GREASES

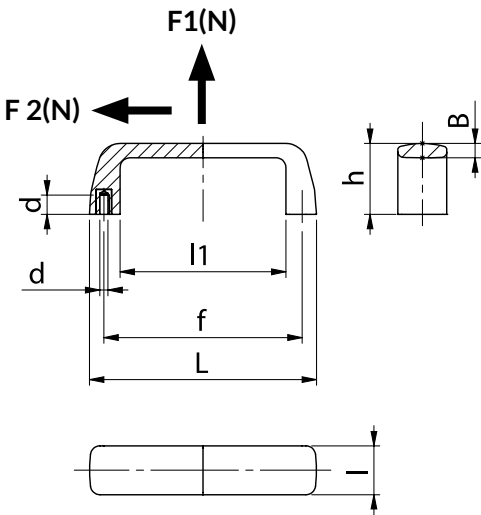
standard color
BLACK

surface
SATIN

insert
BRASS BUSHING
(THREAD TOLERANCE 6H).

on request
• **STAINLESS STEEL BUSHING**
• **GALVANIZED STEEL BUSHING**

alternative colors
• **ORANGE** RAL 2004
• **BLUE** RAL 5015
• **YELLOW** RAL 1021
• **RED** RAL 3000
• **GREEN** RAL 6024
• **GREY** RAL 7035
• **BLACK** RAL 9011



CODE	TYPE	L	h	B	l	l1	f	d	F1(N)	F2(N)	WEIGHT G
MANMTBFDNFN105M5	MY/105 M5	118,5	37	7,5	25,5	86,5	105	M5x10	4.000	1.500	48
MANMTBFDNFN105M6	MY/105 M6	118,5	37	7,5	25,5	86,5	105	M6x10	4.000	1.500	48

(mm)



MP PLASTIC HANDLE WITH THROUGH HOLE



FILE STEP
available online

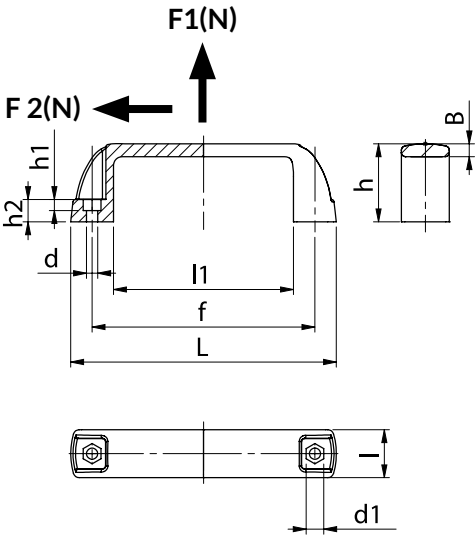


material
GLASS-FIBER REINFORCED NYLON 6
RESISTANT TO OILS AND GREASES

standard color
BLACK

surface
SATIN

- alternative colors
- **ORANGE** RAL 2004
 - **BLUE** RAL 5015
 - **YELLOW** RAL 1021
 - **RED** RAL 3000
 - **GREEN** RAL 6024
 - **GREY** RAL 7035
 - **BLACK** RAL 9011



CODE	TYPE	L	h	B	l	l1	f	d	d1	h1	h2	F1(N)	F2(N)	WEIGHT G
MANMP00DNFN091M5	MP/93,5 ES.5	109	38	5	23	65	91	5	8,3	5	14	2.500	1.250	27,7
MANMP00DNFN091M6	MP/93,5 ES.6	109	38	5	23	65	91	6,2	10,3	5	14	2.500	1.250	27,3
MANMP00DNFN117M6	MP/117 ES.6	138	41	7	26	94	117	6,2	10,5	6	15	2.500	1.250	41,2
MANMP00DNFN117M8	MP/117 ES.8	138	41	7	26	94	117	8,5	13,5	6,5	15	2.500	1.250	40
MANMP00DNFN132M6	MP/132 ES.6	155	45,5	7,5	28	105	132	6,5	10,3	6,5	13	2.500	1.250	58,5
MANMP00DNFN132M8	MP/132 ES.8	155	45,5	7,5	28	105	132	8,5	13,7	6,5	13	2.500	1.250	57,3

(mm)



MP PLASTIC HANDLE WITH BLIND THREADED BUSHING



FILE STEP
available online



material
GLASS-FIBER REINFORCED NYLON 6
RESISTANT TO OILS AND GREASES

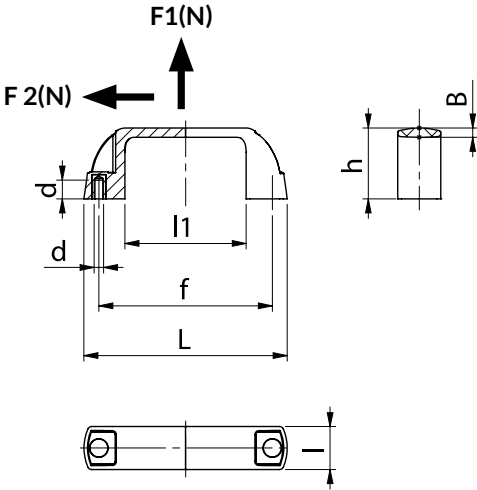
standard color
BLACK

surface
SATIN

insert
BRASS BUSHING
(THREAD TOLERANCE 6H).

on request
• **STAINLESS STEEL BUSHING**
• **GALVANIZED STEEL BUSHING**

alternative colors
• **ORANGE** RAL 2004
• **BLUE** RAL 5015
• **YELLOW** RAL 1021
• **RED** RAL 3000
• **GREEN** RAL 6024
• **GREY** RAL 7035
• **BLACK** RAL 9011



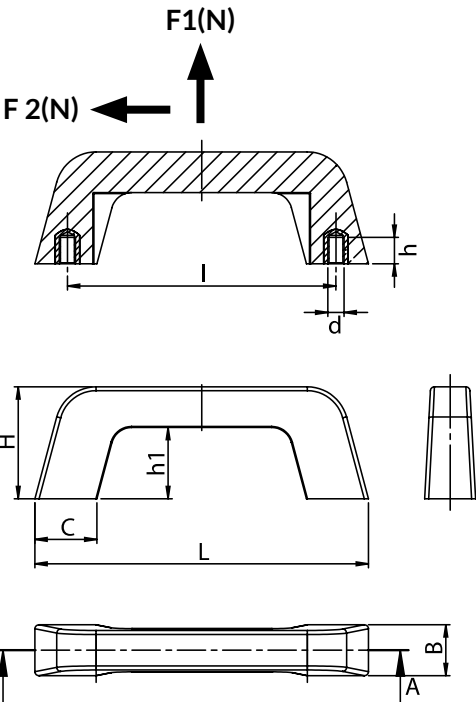
CODE	TYPE	L	h	B	l	l1	f	d	F1(N)	F2(N)	WEIGHT G
MANMPBFDNFN091M5	MP/93,5 B5	109	38	5	23	65	91	M5x10	4.300	1.300	33,3
MANMPBFDNFN091M6	MP/93,5 B6	109	38	5	23	65	91	M6x10	4.300	1.300	34,5
MANMPBFDNFN117M5	MP/117 B5	138	41	7	26	94	117	M5x10	4.300	1.300	49,4
MANMPBFDNFN117M6	MP/117 B6	138	41	7	26	94	117	M6x10	4.300	1.300	47,3
MANMPBFDNFN117M8	MP/117 B8	138	41	7	26	94	117	M8x10	4.300	1.300	49,8
MANMPBFDNFN132M5	MP/132 B5	155	45,5	7,5	28	105	132	M5x10	4.300	1.300	65,4
MANMPBFDNFN132M6	MP/132 B6	155	45,5	7,5	28	105	132	M6x10	4.300	1.300	64,3
MANMPBFDNFN132M8	MP/132 B8	155	45,5	7,5	28	105	132	M8x10	4.300	1.300	66,6

(mm)

MP BAKELITE HANDLE WITH BLIND THREADED BUSHING



FILE STEP
available online



material
BAKELITE

standard color
BLACK

surface
GLOSSY

insert
**BRASS BUSHING
(THREAD TOLERANCE 6H).**

CODE	TYPE	L	I	B	H	h1	C	d1 6H	Q	Peso (g)	F1	F2
MANMPBFDBKN110M5	Handle Threaded Bush. 110 M5	130	109	32	45	29	21	M5	10	94	800	500
MANMPBFDBKN110M6	Handle Threaded Bush. 110 M6	130	109	32	45	29	21	M6	10	95	800	500
MANMPBFDBKN13210	Handle Threaded Bush. 132 M10	164	132	38	56	34	30,5	M10	18	193	1500	850
MANMPBFDBKN132M8	Handle Threaded Bush. 132 M8	164	132	38	56	34	30,5	M8	12	190	1500	850
MANMPBFDBKN15010	Handle Threaded Bush. 150 M10	187	150	40,5	61	43	35	M8	18	217	2000	1000
MANMPBFDBKN150M8	Handle Threaded Bush. 150 M8	187	150	40,5	61	43	35	M10	18	216	2000	1000

(mm)

WING KNOBS

ENSURE PRECISION
IN EVERY APPLICATION





Our wing knobs are the ideal solution for ensuring precise and reliable clamping force in industrial and artisanal environments.

Designed to offer maximum safety and ease of use, these wing knobs stand out for their robustness and precision, making every clamping operation an efficient experience.



CLAMPING WING KNOBS WITH BUSHING

A robust and precise solution for secure clamping. Available in various sizes and high-quality materials, such as stainless steel and brass. Ideal for industrial applications requiring a strong and stable hold.



CLAMPING WING KNOBS WITH THROUGH-HOLE BUSHING

An effective solution for fastening with a through-stud. Equipped with an internal bushing for smooth stud movement. Made with high-quality materials and versatile configurations for precision and reliability.



CLAMPING WING KNOBS WITH THREADED STUD

A robust and versatile solution for direct fastening onto a stud. Durable construction and available in various sizes and materials, such as stainless steel and galvanized steel, for reliable and long-lasting performance. Ideal for industrial applications requiring secure clamping on a fixed stud.

FASTENING KNOB WITH THREADED BUSHING



FILE STEP
available online



material
GLASS-FIBER REINFORCED NYLON 6

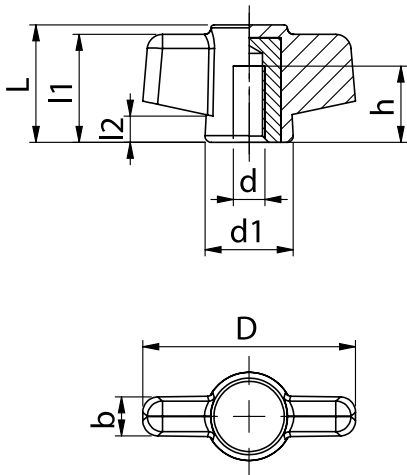
standard color
BLACK

surface
SATIN

insert
BRASS BUSHING

on request
• **STAINLESS STEEL BUSHING**
• **GALVANIZED STEEL BUSHING**

alternative colors
• **ORANGE** RAL 2004
• **BLUE** RAL 5015
• **YELLOW** RAL 1021
• **RED** RAL 3000
• **GREEN** RAL 6024
• **GREY** RAL 7035
• **BLACK** RAL 9011



CODE	TYPE	D	L	b	l1	l2	d1	d	h	WEIGHT G
GALBF00NFN34M500	GF/34 M5	33,5	18,5	6,5	17	4	14	M5	12	7
GALBF00NFN34M600	GF/34 M6	33,5	18,5	6,5	17	4	14	M6	12	7,2
GALBF00NFN34M800	GF/34 M8	33,5	18,5	6,5	17	4	14	M8	12	7,9
GALBF00NFN48M600	GF/48 M6	47,5	20	6	18	4	17	M6	13,5	10,5
GALBF00NFN48M800	GF/48 M8	47,5	20	6	18	4	17	M8	13,5	10,7

(mm)



FILE STEP
available online

FASTENING KNOB WITH THREADED BUSHING THROUGH HOLE



material
GLASS-FIBER REINFORCED NYLON 6

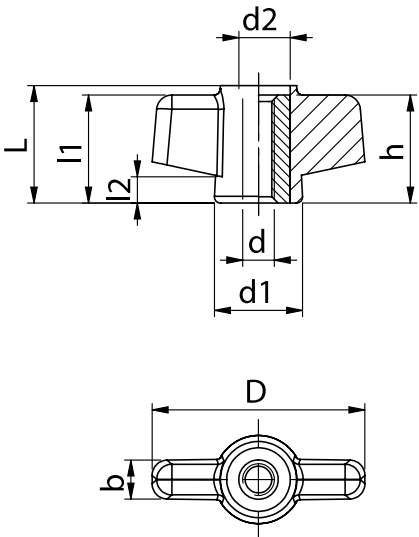
standard color
BLACK

surface
SATIN

insert
**BRASS BUSHING
FORO PASSANTE**

on request
• **STAINLESS STEEL BUSHING**
• **GALVANIZED STEEL BUSHING**

alternative colors
• **ORANGE** RAL 2004
• **BLUE** RAL 5015
• **YELLOW** RAL 1021
• **RED** RAL 3000
• **GREEN** RAL 6024
• **GREY** RAL 7035
• **BLACK** RAL 9011



CODE	TYPE	D	L	b	l1	l2	d1	d	h	d2	WEIGHT G
GALFP00NFN34M500	GF/34 M5 FP	33,5	18,5	6,5	17	4	14	M5 FP	17	10	7
GALFP00NFN34M600	GF/34 M6 FP	33,5	18,5	6,5	17	4	14	M6 FP	17	10	7,2
GALFP00NFN34M800	GF/34 M8 FP	33,5	18,5	6,5	17	4	14	M8 FP	17	10	7,4
GALFP00NFN48M600	GF/48 M6 FP	47,5	20	6	18	4	17	M6 FP	17	10	9
GALFP00NFN48M800	GF/48 M8 FP	47,5	20	6	18	4	17	M8 FP	17	10	9,2

(mm)

FASTENING KNOB WITH STUD



FILE STEP
available online



material
GLASS-FIBER REINFORCED NYLON 6

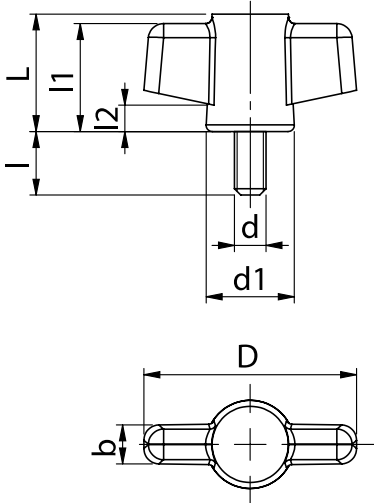
standard color
BLACK

surface
SATIN

insert
GALVANIZED STUD

on request
• **STAINLESS STEEL PIN**

- alternative colors
- **ORANGE** RAL 2004
 - **BLUE** RAL 5015
 - **YELLOW** RAL 1021
 - **RED** RAL 3000
 - **GREEN** RAL 6024
 - **GREY** RAL 7035
 - **BLACK** RAL 9011



CODE __(+L)	TYPE	D	L	b	l1	l2	d1	d	__L	WEIGHT G
GALPZ00NFN34M5__	GF/34 M5X10	33,5	18,5	6,5	17	4	14	M5	10 / 15 / 20 / 25 / 30	7,2
GALPZ00NFN34M6__	GF/34 M6X10	33,5	18,5	6,5	17	4	14	M6	10 / 15 / 20 / 25 / 30	8,8
GALPZ00NFN34M8__	GF/34 M8X10	33,5	18,5	6,5	17	4	14	M8	10 / 15 / 20 / 25 / 30	9,1
GALPZ00NFN48M6__	GF/48 M6X10	47,5	20	6	18	4	17	M6	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45	10,2
GALPZ00NFN48M8__	GF/48 M8X10	47,5	20	6	18	4	17	M8	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45	11,3

(mm)



CLAMPING LEVERS

PERFECT FOR
EVERY APPLICATION.





Our range of levers is designed to meet a wide variety of industrial applications, offering custom solutions for your specific needs.



FIXED LEVER WITH BUSHING

Our fixed lever with bushing offers a reliable solution for fastening on rigid surfaces. Designed with an integrated bushing, it allows smooth and precise movement, ensuring a stable and secure hold. Made from durable materials such as stainless steel and special alloys, this lever ensures long-lasting performance even under the most demanding conditions.



FIXED LEVER WITH STUD

Our fixed lever with stud is designed for applications requiring direct fastening on a pin. With an intelligent design and robust construction, this lever ensures a secure and stable connection in a variety of industrial contexts. Available in different sizes and materials, it offers reliable and long-lasting performance.



CLAMPING LEVER WITH BUSHING

Our clamping lever with bushing offers a versatile solution for fastening on rigid surfaces or for connecting two movable elements. Equipped with an integrated bushing and a snap mechanism, it allows quick and secure installation while providing a stable and reliable hold. Made from high-quality materials, it is the ideal choice for applications requiring a lever with high precision and durability.



CLAMPING LEVER WITH STUD

Our clamping lever with stud offers an efficient solution for direct fastening on a stud. With a ratchet mechanism and an integrated stud, it ensures a quick and secure connection while providing a stable and reliable hold. Made from durable materials and available in various configurations, it offers optimal performance in a variety of industrial applications.



FIXED LEVER WITH STUD



FILE STEP
available online



material
GLASS-FIBER REINFORCED NYLON 6

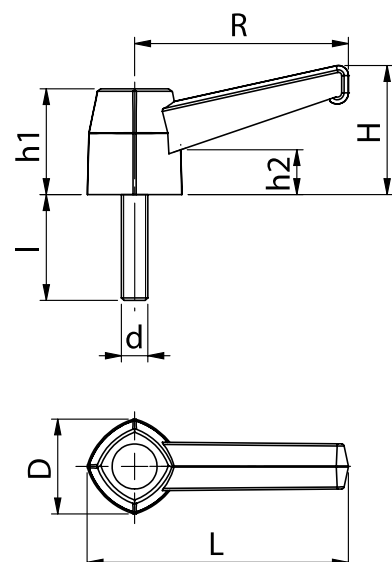
on request
• **STAINLESS STEEL PIN**

standard color
BLACK

alternative colors
• **ORANGE** RAL 2004
• **BLUE** RAL 5015
• **YELLOW** RAL 1021
• **RED** RAL 3000
• **GREEN** RAL 6024
• **GREY** RAL 7035
• **BLACK** RAL 9011

surface
SATIN

insert
GALVANIZED STUD



CODE __ (+I)	TYPE	D	R	L	H	d	__I	h1	h2	WEIGHT G
LEVFPZ0NFN40M4__	LFP/40 M4X10	18	40,4	49,5	24,5	M4	10 / 15 / 20 / 25	20	8,5	7,6
LEVFPZ0NFN40M5__	LFP/40 M5X10	18	40,4	49,5	24,5	M5	10 / 15 / 20 / 25	20	8,5	6,2
LEVFPZ0NFN40M6__	LFP/40 M6X10	18	40,4	49,5	24,5	M6	10 / 15 / 20 / 25	20	8,5	5,1
LEVFPZ0NFN60M6__	LFP/60 M6X10	22,4	59,3	70,5	34,5	M6	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50	26,8	9	17,1
LEVFPZ0NFN60M8__	LFP/60 M8X10	22,4	59,3	70,5	34,5	M8	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50	26,8	9	96,8
LEVFPZ0NFN80M8__	LFP/80 M8X10	28,7	82	96,5	45	M8	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50	32	10,5	98,3
LEVFPZ0NFN8010__	LFP/80 M10X10	28,7	82	96,5	45	M10	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50	32	10,5	98,6
LEVFPZ0NFN0012__	LFP/100 M12X30	35,7	99	117	56	M12	30 / 35 / 40 / 45 / 50 / 55 / 60 / 65 / 70	40	14	77,64
LEVFPZ0NFN0014__	LFP/100 M14X30	35,7	99	117	56	M14	30 / 35 / 40 / 45 / 50 / 55 / 60 / 65 / 70	40	14	117,8
LEVFPZ0NFN0016__	LFP/100 M16X30	35,7	99	117	56	M16	30 / 35 / 40 / 45 / 50 / 55 / 60 / 65 / 70	40	14	138,6

(mm)



FIXED LEVER WITH THREADED BUSHING



FILE STEP
available online



material
GLASS-FIBER REINFORCED NYLON 6

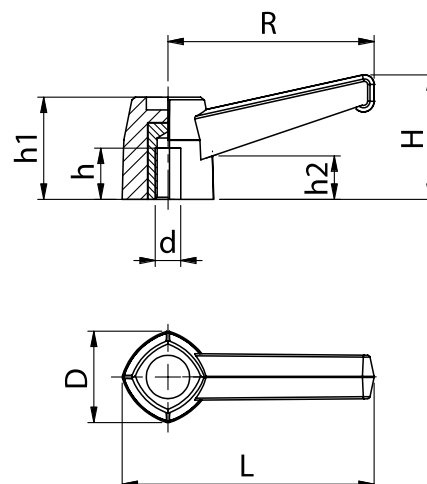
standard color
BLACK

surface
SATIN

insert
BRASS BUSHING

on request
• **STAINLESS STEEL BUSHING**
• **GALVANIZED STEEL BUSHING**

alternative colors
• **ORANGE** RAL 2004
• **BLUE** RAL 5015
• **YELLOW** RAL 1021
• **RED** RAL 3000
• **GREEN** RAL 6024
• **GREY** RAL 7035
• **BLACK** RAL 9011



CODE	TYPE	D	R	L	H	d	h	h1	h2	WEIGHT G
LEVFBF0NFN40M400	LFB/40 M4	18	40,4	49,5	24,5	M4	8,5	20	8,5	13
LEVFBF0NFN40M500	LFB/40 M5	18	40,4	49,5	24,5	M5	8,5	20	8,5	13,2
LEVFBF0NFN40M600	LFB/40 M6	18	40,4	49,5	24,5	M6	8,5	20	8,5	15
LEVFBF0NFN60M600	LFB/60 M6	22,4	59,3	70,5	34,5	M6	13	26,8	9	16,2
LEVFBF0NFN60M800	LFB/60 M8	22,4	59,3	70,5	34,5	M8	13	26,8	9	17,3
LEVFBF0NFN601000	LFB/60 M10	22,4	59,3	70,5	34,5	M10	13	26,8	9	23,3
LEVFBF0NFN80M800	LFB/80 M8	28,7	82	96,5	45	M8	15	32	10,5	22,4
LEVFBF0NFN801000	LFB/80 M10	28,7	82	96,5	45	M10	15	32	10,5	26,3
LEVFBF0NFN801200	LFB/80 M12	28,7	82	96,5	45	M12	15	32	10,5	28,1
LEVFBF0NFN001200	LFB/100 M12	35,7	99	117	56	M12	19	40	14	64
LEVFBF0NFN001400	LFB/100 M14	35,7	99	117	56	M14	19	40	14	70
LEVFBF0NFN001600	LFB/100 M16	35,7	99	117	56	M16	19	40	14	82

(mm)



CLAMPING LEVER WITH THREADED STUD



FILE STEP
available online



material
GLASS-FIBER REINFORCED NYLON 6

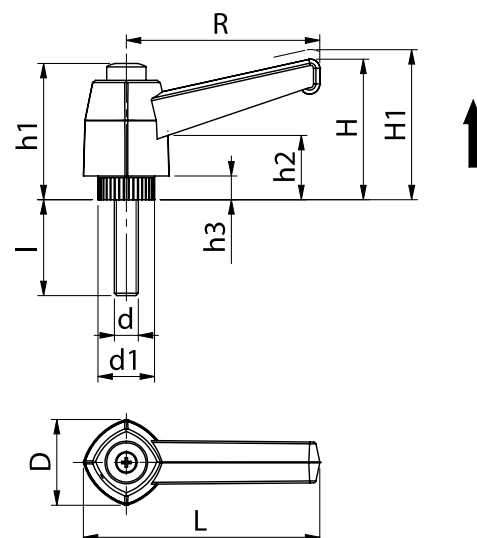
standard color
BLACK

surface
SATIN

insert
GALVANIZED STUD

on request
• **STAINLESS STEEL PIN**
• **GALVANIZED STEEL BUSHING**

alternative colors
• **ORANGE** RAL 2004
• **BLUE** RAL 5015
• **YELLOW** RAL 1021
• **RED** RAL 3000
• **GREEN** RAL 6024
• **GREY** RAL 7035
• **BLACK** RAL 9011



CODE __(+l)	TYPE	D	R	L	H	d	__l	h1	h2	h3	d1	H1	WEIGHT G
LEVSPZ0NFN40M4__	LRP/40 M4X10	18	40,4	49,5	29,5	M4	10 / 15 / 20 / 25 / 30 / 35 / 40	28,5	13,5	5	11,8	33	6,4
LEVSPZ0NFN40M5__	LRP/40 M5X10	18	40,4	49,5	29,5	M5	10 / 15 / 20 / 25 / 30 / 35 / 40	28,5	13,5	5	11,8	33	7,2
LEVSPZ0NFN40M6__	LRP/40 M6X10	18	40,4	49,5	29,5	M6	10 / 15 / 20 / 25 / 30 / 35 / 40	28,5	13,5	5	11,8	33	7,4
LEVSPZ0NFN60M6__	LRP/60 M6X10	22,4	59,3	70,5	42,2	M6	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50	38,3	16,7	7,7	13,8	45	19,6
LEVSPZ0NFN60M8__	LRP/60 M8X10	22,4	59,3	70,5	42,2	M8	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50	38,3	16,7	7,7	13,8	45	30,1
LEVSPZ0NFN80M8__	LRP/80 M8X10	28,7	82	96,5	54,9	M8	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50	47	20,4	9,9	18,6	60	35,75
LEVSPZ0NFN8010__	LRP/80 M10X10	28,7	82	96,5	54,9	M10	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50	47	20,4	9,9	18,6	60	43,7
LEVSPZ0NFN8012__	LRP/80 M12X10	28,7	82	96,5	54,9	M12	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50	47	20,4	9,9	18,6	60	45,8
LEVSPZ0NFN0012__	LRP/100 M12X10	35,7	99	117	68,2	M12	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50	58,4	26,2	12,2	22,7	74,4	95,4
LEVSPZ0NFN0014__	LRP/100 M14X10	35,7	99	117	68,2	M14	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50	58,4	26,2	12,2	22,7	74,4	95,8
LEVSPZ0NFN0016__	LRP/100 M16X10	35,7	99	117	68,2	M16	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50	58,4	26,2	12,2	22,7	74,4	97,4

(mm)



CLAMPING LEVER WITH THREADED BUSHING



FILE STEP
available online



material
GLASS-FIBER REINFORCED NYLON 6

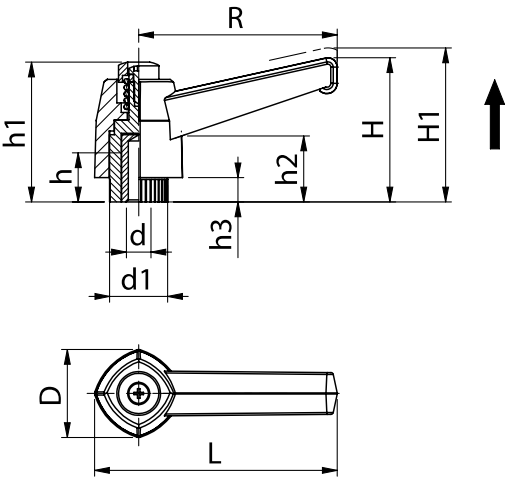
standard color
BLACK

surface
SATIN

insert
BRASS BUSHING

on request
• **STAINLESS STEEL BUSHING**
• **GALVANIZED STEEL BUSHING**

alternative colors
• **ORANGE** RAL 2004
• **BLUE** RAL 5015
• **YELLOW** RAL 1021
• **RED** RAL 3000
• **GREEN** RAL 6024
• **GREY** RAL 7035
• **BLACK** RAL 9011



CODE	TYPE	D	R	L	H	d	h	h1	h2	h3	d1	H1	WEIGHT G
LEVSBF0NFN40M400	LRB/40 M4	18	40,4	49,5	29,5	M4	10	28,5	13,5	5	11,8	33	8
LEVSBF0NFN40M500	LRB/40 M5	18	40,4	49,5	29,5	M5	10	28,5	13,5	5	11,8	33	8,2
LEVSBF0NFN40M600	LFB/40 M6	18	40,4	49,5	29,5	M6	10	28,5	13,5	5	11,8	33	8,2
LEVSBF0NFN60M600	LRB/60 M6	22,4	59,3	70,5	42,2	M6	12	38,3	16,7	7,7	13,8	45	31
LEVSBF0NFN60M800	LRB/60 M8	22,4	59,3	70,5	42,2	M8	12	38,3	16,7	7,7	13,8	45	33
LEVSBF0NFN80M800	LRB/80 M8	28,7	82	96,5	54,9	M8	15	47	20,4	9,9	18,6	60	39
LEVSBF0NFN801000	LRB/80 M10	28,7	82	96,5	54,9	M10	15	47	20,4	9,9	18,6	60	45
LEVSBF0NFN801200	LRB/80 M12	28,7	82	96,5	54,9	M12	15	47	20,4	9,9	18,6	60	47
LEVSBF0NFN001200	LRB/100 M12	35,7	99	117	68,2	M12	15	58,4	26,2	12,2	22,7	74,4	57
LEVSBF0NFN001400	LRB/100 M14	35,7	99	117	68,2	M14	15	58,4	26,2	12,2	22,7	74,4	63
LEVSBF0NFN001600	LRB/100 M16	35,7	99	117	68,2	M16	15	58,4	26,2	12,2	22,7	74,4	75

(mm)



CLAMPING LEVER WITH PUSH BUTTON AND THREADED STUD



FILE STEP
available online



button color

- ● N BLACK STANDARD
- ● A ORANGE RAL 2004
- ● B BLUE RAL 5015
- ● R RED RAL 3000

material
GLASS-FIBER REINFORCED NYLON 6

standard color
BLACK

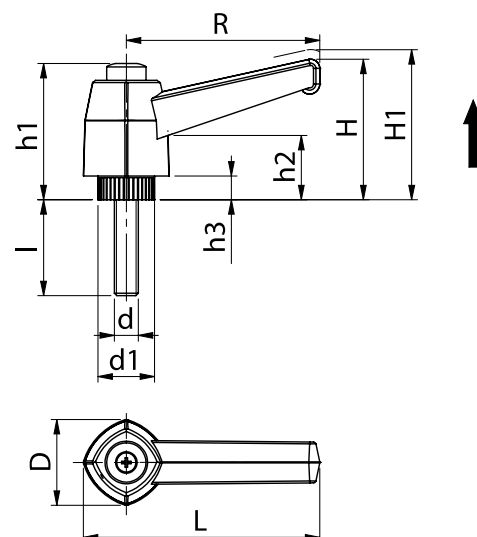
surface
SATIN

insert
GALVANIZED STUD

on request
• **STAINLESS STEEL PIN**

alternative colors

- **ORANGE** RAL 2004
- **BLUE** RAL 5015
- **YELLOW** RAL 1021
- **RED** RAL 3000
- **GREEN** RAL 6024
- **GREY** RAL 7035
- **BLACK** RAL 9011



CODE __(+Color) __(+I)	TYPE	D	R	L	H	d	h1	h2	h3	d1	H1	__COL.	__I	WEIGHT G
LEVSPZ__NFN40M4__	LRP/40 M4X10	18	40,4	49,5	29,5	M4	28,5	13,5	5	11,8	33	● N ● A ● B ● R	10 / 15 / 20 / 25 / 30 / 35 / 40	6,4
LEVSPZ__NFN40M5__	LRP/40 M5X10	18	40,4	49,5	29,5	M5	28,5	13,5	5	11,8	33		10 / 15 / 20 / 25 / 30 / 35 / 40	7,2
LEVSPZ__NFN40M6__	LRP/40 M6X10	18	40,4	49,5	29,5	M6	28,5	13,5	5	11,8	33		10 / 15 / 20 / 25 / 30 / 35 / 40	7,4
LEVSPZ__NFN60M6__	LRP/60 M6X10	22,4	59,3	70,5	42,2	M6	38,3	16,7	7,7	13,8	45		10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50	19,6
LEVSPZ__NFN60M8__	LRP/60 M8X10	22,4	59,3	70,5	42,2	M8	38,3	16,7	7,7	13,8	45		10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50	30,1
LEVSPZ__NFN80M8__	LRP/80 M8X10	28,7	82	96,5	54,9	M8	47	20,4	9,9	18,6	60		10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50	35,75
LEVSPZ__NFN8010__	LRP/80 M10X10	28,7	82	96,5	54,9	M10	47	20,4	9,9	18,6	60		10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50	43,7
LEVSPZ__NFN8012__	LRP/80 M12X10	28,7	82	96,5	54,9	M12	47	20,4	9,9	18,6	60		10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50	45,8
LEVSPZ__NFN0014__	LRP/100 M14X10	35,7	99	117	68,2	M14	58,4	26,2	12,2	22,7	74,4		10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50	95,8
LEVSPZ__NFN0016__	LRP/100 M16X10	35,7	99	117	68,2	M16	58,4	26,2	12,2	22,7	74,4		10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50	97,4

(mm)



CLAMPING LEVER WITH PUSH BUTTON AND THREADED BUSHING



FILE STEP
available online



button color

- ● N BLACK STANDARD
- ● A ORANGE RAL 2004
- ● B BLUE RAL 5015
- ● R RED RAL 3000

material

GLASS-FIBER REINFORCED NYLON 6

standard color

BLACK

surface

SATIN

insert

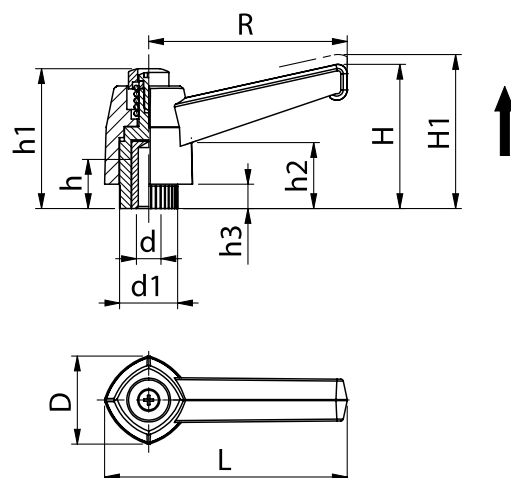
BRASS BUSHING

on request

- STAINLESS STEEL BUSHING
- GALVANIZED STEEL BUSHING

alternative colors

- ORANGE RAL 2004
- BLUE RAL 5015
- YELLOW RAL 1021
- RED RAL 3000
- GREEN RAL 6024
- GREY RAL 7035
- BLACK RAL 9011



CODE __ (+Color)	TYPE	D	R	L	H	d	h	h1	h2	h3	d1	H1	WEIGHT G	__COL.
LEVSBF__NFN40M400	LRB/40 M4	18	40,4	49,5	29,5	M4	10	28,5	13,5	5	11,8	33	8	
LEVSBF__NFN40M500	LRB/40 M5	18	40,4	49,5	29,5	M5	10	28,5	13,5	5	11,8	33	8,2	
LEVSBF__NFN40M600	LFB/40 M6	18	40,4	49,5	29,5	M6	10	28,5	13,5	5	11,8	33	8,2	
LEVSBF__NFN60M600	LRB/60 M6	22,4	59,3	70,5	42,2	M6	12	38,3	16,7	7,7	13,8	45	31	
LEVSBF__NFN60M800	LRB/60 M8	22,4	59,3	70,5	42,2	M8	12	38,3	16,7	7,7	13,8	45	33	
LEVSBF__NFN80M800	LRB/80 M8	28,7	82	96,5	54,9	M8	15	47	20,4	9,9	18,6	60	39	
LEVSBF__NFN801000	LRB/80 M10	28,7	82	96,5	54,9	M10	15	47	20,4	9,9	18,6	60	45	
LEVSBF__NFN801200	LRB/80 M12	28,7	82	96,5	54,9	M12	15	47	20,4	9,9	18,6	60	47	
LEVSBF__NFN001200	LRB/100 M12	35,7	99	117	68,2	M12	15	58,4	26,2	12,2	22,7	74,4	57	
LEVSBF__NFN001400	LRB/100 M14	35,7	99	117	68,2	M14	15	58,4	26,2	12,2	22,7	74,4	63	
LEVSBF__NFN001600	LRB/100 M16	35,7	99	117	68,2	M16	15	58,4	26,2	12,2	22,7	74,4	75	

(mm)



ROUND ZAMAK SNAP LEVER WITH THREADED BUSHING



FILE STEP
available online



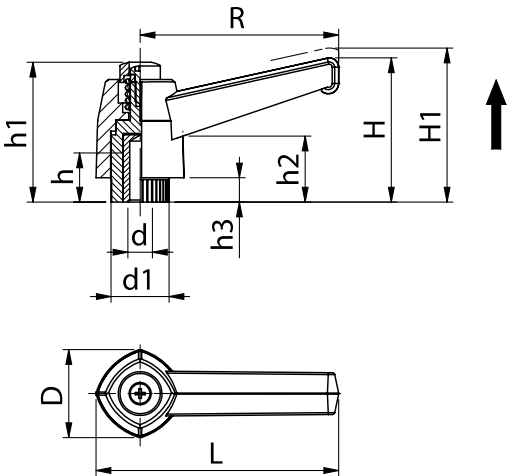
material
ZAMA

standard color
BLACK RAL 9011
ORANGE RAL 2004

- alternative colors
- **BLUE** RAL 5015
 - **YELLOW** RAL 1021
 - **RED** RAL 3000
 - **GREEN** RAL 6024
 - **GREY** RAL 7035

surface
SMOOTH, EPOXY POWDER COATED

insert
GALVANIZED / BURNISHED



CODE __ (+Color)	TYPE	D	H	h	L	M	P	__COL.
LEVSBA0AC__40M400	NM40/B M4	16	29	24	40	M4	10	N A
LEVSBA0AC__40M500	NM40/B M5	16	29	24	40	M5	10	
LEVSBA0AC__40M600	NM40/B M6	16	29	24	40	M6	10	
LEVSBA0AC__63M600	NM63/B M6	19	47	33	63	M6	13	
LEVSBA0AC__63M800	NM63/B M8	19	47	33	63	M8	13	
LEVSBA0AC__811000	NM81/B M10	25	65	43	81	M10	19	
LEVSBA0AC__811200	NM81/B M12	25	65	43	81	M12	19	
LEVSBA0AC__161200	NM106/B M12	32	74	53	106	M12	24	
LEVSBA0AC__161400	NM106/B M14	32	74	53	106	M14	24	
LEVSBA0AC__161600	NM106/B M16	32	74	53	106	M16	24	

(mm)

ROUND SNAP LEVER IN ZAMAK WITH PIN



FILE STEP
available online



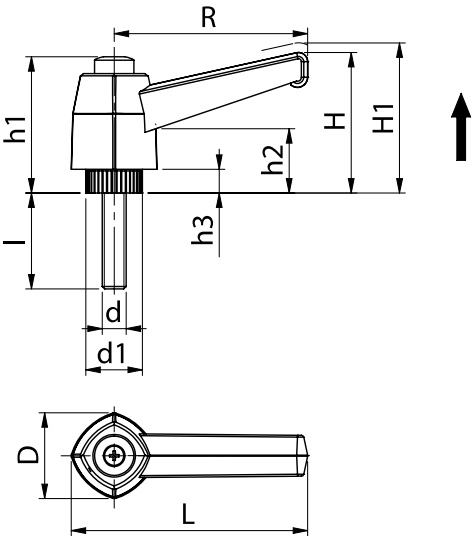
material
ZAMA

standard color
BLACK RAL 9011
ORANGE RAL 2004

surface
SMOOTH, EPOXY POWDER COATED

insert
GALVANIZED / BURNISHED

- alternative colors
- **BLUE** RAL 5015
 - **YELLOW** RAL 1021
 - **RED** RAL 3000
 - **GREEN** RAL 6024
 - **GREY** RAL 7035



CODE __(+Color) __(+P)	TYPE	D	H	h	L	M	__COL.	__P
LEVSIA0AC__40M4__	GA44/P M4	16	29	24	40	M4	N● A●	20 / 30 / 40
LEVSIA0AC__40M5__	GA44/P M5	16	29	24	40	M5		10 / 15 / 20 / 25 / 30 / 35 / 40
LEVSIA0AC__40M6__	GA44/P M6	16	29	24	40	M6		10 / 20 / 25 / 30 / 35 / 50
LEVSIA0AC__63M6__	GA44/P M8	16	29	24	40	M8		20 / 30 / 40
LEVSIA0AC__63M6__	GA65/P M6	19	47	33	63	M6		20 / 30
LEVSIA0AC__63M8__	GA65/P M8	19	47	33	63	M8		10 / 20 / 30 / 35 / 40 / 50 / 60
LEVSIA0AC__8110__	GA65/P M10	25	65	43	81	M10		20 / 25 / 30 / 35 / 40 / 50 / 60 / 70 / 80
LEVSIA0AC__8112__	GA80/P M10	25	65	43	81	M12		20 / 25 / 30 / 35 / 40 / 50 / 60 / 70 / 80
LEVSIA0AC__1614__	GA94/P M14	32	74	53	106	M14		30 / 40 / 50 / 60 / 70
LEVSIA0AC__1616__	GA94/P M16	32	74	53	106	M16		30 / 40 / 50 / 60 / 70 / 80

(mm)



ROUND ZAMAK SNAP LEVER WITH THREADED BUSHING



FILE STEP
available online



material
ZAMA

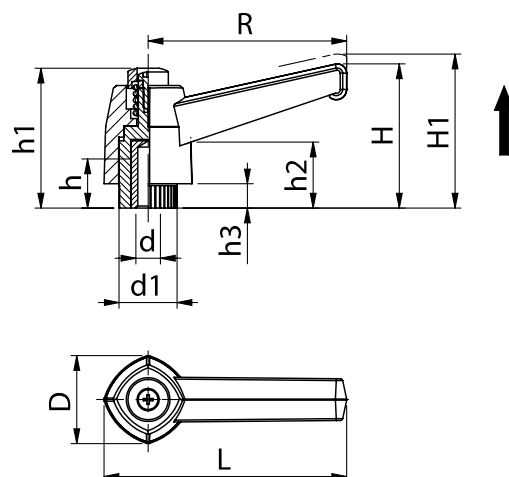
standard color
BLACK RAL 9011
ORANGE RAL 2004

alternative colors

- BLUE RAL 5015
- YELLOW RAL 1021
- RED RAL 3000
- GREEN RAL 6024
- GREY RAL 7035

surface
SMOOTH, EPOXY POWDER COATED

insert
GALVANIZED / BURNISHED



CODE __(+Color)	TYPE	D	H1	H	h	F	L	B	d	E	__COL.
LEVSBA0AC__44M400	GA44/B M4	9,5	36	23	5	21	44	52	M4	8	
LEVSBA0AC__44M500	GA44/B M5	9,5	36	23	5	21	44	52	M5	8	
LEVSBA0AC__44M600	GA44/B M6	9,5	36	23	5	21	44	52	M6	8	
LEVSBA0AC__65M600	GA65/B M6	11,5	47	33	10	28	65	75	M6	11	
LEVSBA0AC__65M800	GA65/B M8	11,5	47	33	10	28	65	75	M8	11	
LEVSBA0AC__801000	GA80/B M10	19	62	41	12	37	80	94	M10	18	
LEVSBA0AC__801200	GA80/B M12	19	62	41	12	37	80	94	M12	18	
LEVSBA0AC__941200	GA94/B M12	23	67	48	12	44	94	109	M12	24	
LEVSBA0AC__941400	GA94/B M14	23	67	48	12	44	94	109	M14	24	
LEVSBA0AC__941600	GA94/B M16	23	67	48	12	44	94	109	M16	24	

(mm)



SQUARE SNAP LEVER IN ZAMAK

WITH PIN



FILE STEP
available online



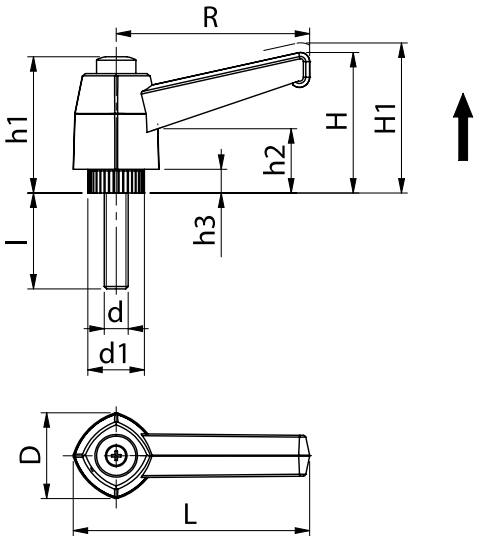
material
ZAMA

standard color
BLACK RAL 9011
ORANGE RAL 2004

surface
SMOOTH, EPOXY POWDER COATED

insert
GALVANIZED / BURNISHED

- alternative colors
- **BLUE** RAL 5015
 - **YELLOW** RAL 1021
 - **RED** RAL 3000
 - **GREEN** RAL 6024
 - **GREY** RAL 7035



CODE __(+Color) __(+P)	TYPE	D	H	h	L	M	__COL.	__P
LEVSIA0AC__40M4__	NM40/P M4	16	29	24	40	M4	N A	20 / 30 / 40
LEVSIA0AC__40M5__	NM40/P M5	16	29	24	40	M5		10 / 15 / 20 / 25 / 30 / 35 / 40
LEVSIA0AC__40M6__	NM40/P M6	16	29	24	40	M6		10 / 20 / 25 / 30 / 35 / 50
LEVSIA0AC__40M8__	NM40/P M8	16	29	24	40	M8		20 / 30 / 40
LEVSIA0AC__63M6__	NM63/P M6	19	47	33	63	M6		20 / 30
LEVSIA0AC__63M8__	NM63/P M8	19	47	33	63	M8		10 / 20 / 30 / 35 / 40 / 50 / 60
LEVSIA0AC__8110__	NM81/P M10	25	65	43	81	M10		20 / 25 / 30 / 35 / 40 / 50 / 60 / 70 / 80
LEVSIA0AC__8112__	NM81/P M12	25	65	43	81	M12		20 / 25 / 30 / 35 / 40 / 50 / 60 / 70 / 80
LEVSIA0AC__1614__	NM106/P M14	32	74	53	106	M14		30 / 40 / 50 / 60 / 70
LEVSIA0AC__1616__	NM106/P M16	32	74	53	106	M16		30 / 40 / 50 / 60 / 70 / 80

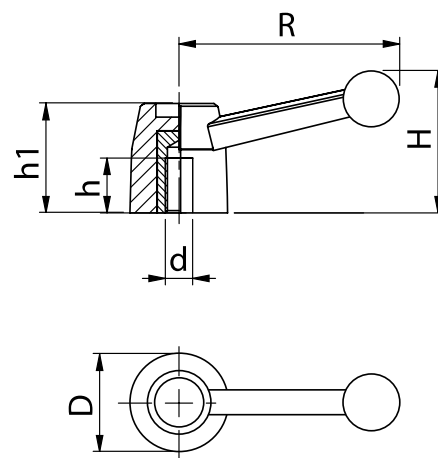
(mm)



BURNISHED STEEL CLAMPING LEVER



FILE STEP
available online



material

**BURNISHED STEEL LEVER
/ BAKELITE SPHERE**

CODE	TYPE	D	d	H	h1	R	d	h
LEVFA0ACN67M500	NTC60/B M5	16	10	40	25	67	M5	14
LEVFA0ACN67M600	NTC60/B M6	16	10	40	25	67	M6	14
LEVFA0ACN84M600	NTC80/B M6	22	14	53	32	84	M6	19
LEVFA0ACN84M800	NTC80/B M8	22	14	53	32	84	M8	19
LEVFA0ACN131000	NTC100/B M10	26	18	62	38	103	M10	21
LEVFA0ACN131200	NTC100/B M12	26	18	62	38	103	M12	21
LEVFA0ACN141400	NTC120/B M14	32	22	75	45	114	M14	24
LEVFA0ACN141600	NTC120/B M16	32	22	75	45	114	M16	24
LEVFA0ACN181600	NTC140/B M16	38	28	88	54	148	M16	30
LEVFA0ACN181800	NTC140/B M18	38	28	88	54	148	M18	30
LEVFA0ACN172000	NTC170/B M20	45	34	105	66	174	M20	40

(mm)



HINGES

ROBUST AND PRECISE





Mon Plast hinges ensure a secure and durable installation. Their robustness and precision make them the perfect solution for any fastening operation, guaranteeing maximum safety and ease of use.



HINGES WITH BUSHING

Our hinges with bushing offer a reliable solution for fastening on rigid surfaces. Equipped with an integrated bushing, they allow for smooth and precise movement, ensuring a stable and secure closure. Made with resistant materials, these hinges ensure durability even in the most demanding conditions.



HINGES WITH THROUGH HOLE

Our hinges with through hole are designed for applications where the passage of a pin or another fastening structure is required. With an intelligent design that allows for the smooth movement of the pin through the hole, these hinges ensure a secure connection without compromising the functionality of the fastening mechanism. Made with high-quality materials and available in various configurations, they offer an effective and reliable solution for a variety of industrial applications.



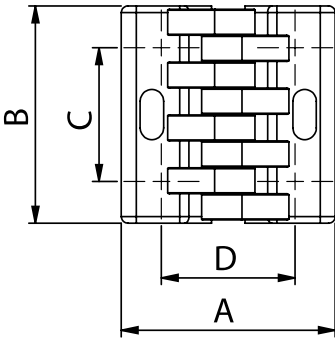
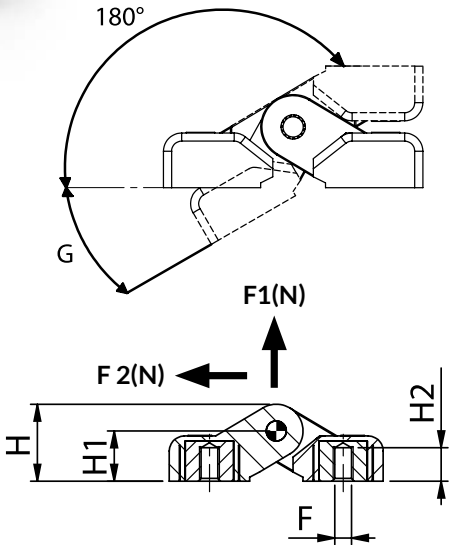
HINGES WITH STUD

Our hinges with stud offer a versatile solution for fastening on rigid surfaces or for connecting two mobile elements. Equipped with integrated fastening screws, they allow for simple and quick installation, while offering a secure and stable hold. Available in various sizes and materials, these hinges are the ideal choice for applications requiring robust and reliable fastening.

HINGE WITH THREADED BUSHING



FILE STEP
available online



material
NYLON 6 SFERA VETRO 30%

standard color
BLACK

surface
SATIN

inserti
**STAINLESS STEEL PIN
AND BRASS BLIND BUSHING**

on request
• **GALVANIZED STUD**
• **STAINLESS STEEL BUSHING**
• **GALVANIZED STEEL BUSHING**

alternative colors
• **ORANGE** RAL 2004
• **BLUE** RAL 5015
• **YELLOW** RAL 1021
• **RED** RAL 3000
• **GREEN** RAL 6024
• **GREY** RAL 7035
• **BLACK** RAL 9011

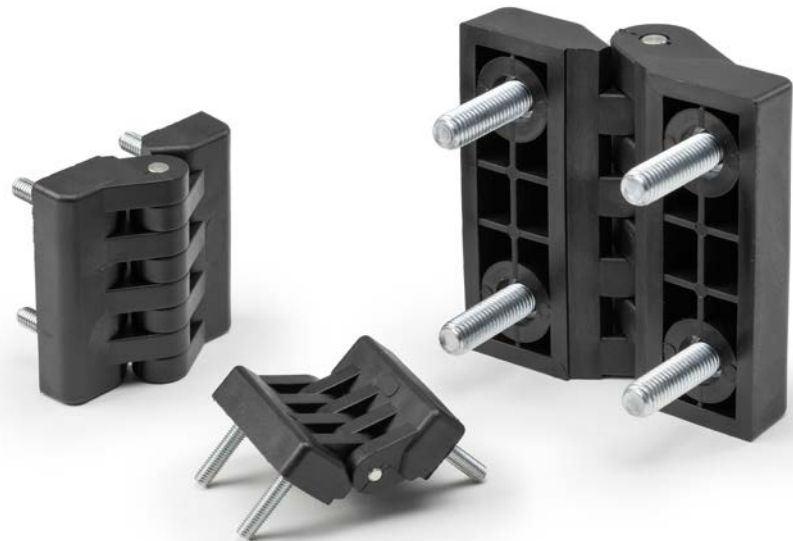
CODE	TYPE	A	B	C	D	H	H1	F	H2	F1(N)	F2(N)	WEIGHT G
CERBF00NSN48M500	C48 M5	47	49,5	30	30	19	13	M5	7,5	4.300	1.800	47,4
CERBF00NSN48M600	C48 M6	47	49,5	30	30	19	13	M6	8	4.300	1.800	47,4
CERBF00NSN65M600	C65 M6	64	65	40	40	23	15	M6	10	4.300	1.800	95,6
CERBF00NSN981000	C98 M10	98	97,5	60	63	35	23	M10	14	4.300	1.800	280,7

(mm)

HINGE WITH STUD



FILE STEP
available online



material
NYLON 6 SFERA VETRO 30%

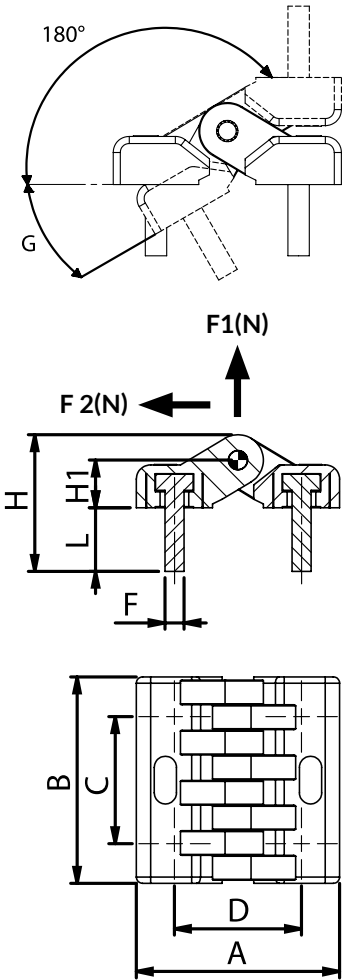
standard color
BLACK

surface
SATIN

insert
**STAINLESS STEEL PIN
AND GALVANIZED STUD**

on request
• **GALVANIZED STUD**
• **STAINLESS STEEL PIN**

alternative colors
• **ORANGE** RAL 2004
• **BLUE** RAL 5015
• **YELLOW** RAL 1021
• **RED** RAL 3000
• **GREEN** RAL 6024
• **GREY** RAL 7035
• **BLACK** RAL 9011



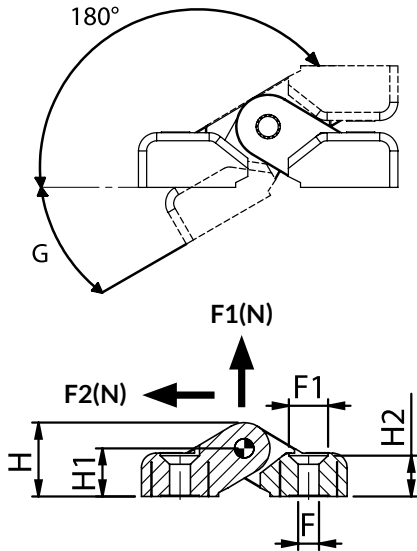
CODE	TYPE	A	B	C	D	H	H1	F	L	F1(N)	F2(N)	WEIGHT G
CERVZ00NSN48M520	C48 M5X20	47	49,5	30	30	39	13	M5	20	4.300	1.800	49
CERVZ00NSN65M620	C65 M6X20	64	65	40	40	43	15	M6	20	4.300	1.800	93
CERVZ00NSN981030	C98 M10X30	98	97,5	60	63	64,5	23	M10	29,5	4.300	1.800	350,5

(mm)

THROUGH-HOLE HINGE



FILE STEP
available online



material
NYLON 6 SFERA VETRO 30%

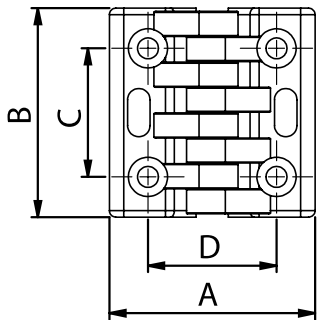
standard color
BLACK

surface
SATIN

insert
STAINLESS STEEL STUD

on request
• **GALVANIZED STUD**

alternative colors
• **ORANGE** RAL 2004
• **BLUE** RAL 5015
• **YELLOW** RAL 1021
• **RED** RAL 3000
• **GREEN** RAL 6024
• **GREY** RAL 7035
• **BLACK** RAL 9011



CODE	TYPE	A	B	C	D	H	H1	F	F1	H2	F1(N)	F2(N)	WEIGHT G
CERFP00NSN400000	C40/FP	39	40,5	25	25	14,5	9,5	4,6	8,4	8,3	4.300	1.800	16,8
CERFP00NSN480000	C48/FP	47	49,5	30	30	19	13	5,5	9,9	9,7	4.300	1.800	33
CERFP00NSN650000	C65/FP	64	65	40	40	23	14	6,5	12,2	12,4	4.300	1.800	73,7
CERFP00NSN980000	C98/FP	98	97,5	60	63	35	23	10,7	19,9	19,5	4.300	1.800	237,8

(mm)



THROUGH-HOLE HINGE IN 316 STAINLESS STEEL



FILE STEP
available online

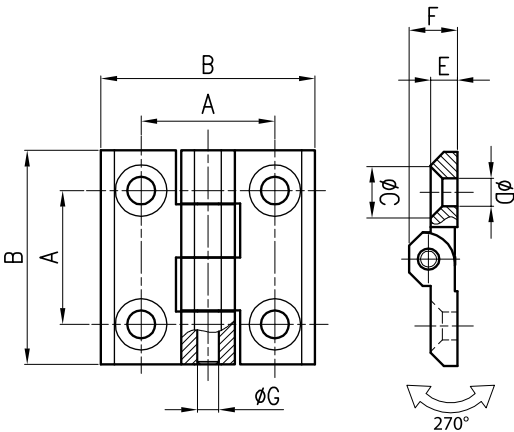


material
STAINLESS STEEL 316

standard color
NATURAL

surface
SATIN

insert
STAINLESS STEEL STUD



CODE	TYPE	A	B	E	F	ØD	ØC	ØG
CERFP00AC0400000	through-hole hinge	25	40	5	9	5,5	9,6	4
CERFP00AC0500000	through-hole hinge	30	50	6	11,5	6,2	12,4	6
CERFP00AC0600000	through-hole hinge	36	60	8	15	8,4	13	8

(mm)

ZAMAK THROUGH-HOLE HINGE



FILE STEP
available online

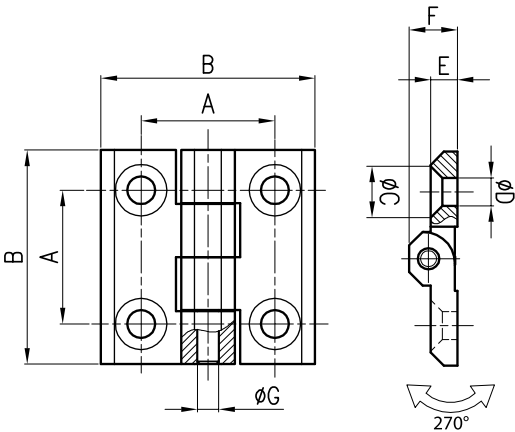


material
**ZAMAK ALLOY (ZINC, ALUMINUM,
AND COPPER ALLOY)**

standard color
BLACK

surface
SATIN

insert
STAINLESS STEEL STUD



CODE	TYPE	A	B	E	F	ØD	ØC	ØG
CERFP00ZMS400000	through-hole hinge	25	40	5	9	5,5	9,6	4
CERFP00ZMS500000	through-hole hinge	30	50	6	11,5	6,2	12,4	6
CERFP00ZMS600000	through-hole hinge	36	60	8	15	8,4	13	8

(mm)



FEET

ADJUSTABLE AND LEVELING
FOOT – CUSTOMIZED STABILITY
FOR EVERY SURFACE.





The Mon Plast adjustable and leveling foot is designed to ensure perfect balance on any surface. Ideal for residential and commercial furniture as well as industrial machinery, this foot offers micrometric adjustment, robust construction, and the versatility to meet every leveling need.



MICROMETRIC ADJUSTMENT

Equipped with a micrometric adjustment mechanism, the foot allows for precise leveling even on irregular surfaces, ensuring unparalleled stability.



VERSATILITY OF USE

Ideal for both domestic and industrial applications, these adjustable and leveling feet adapt to furniture, tables, industrial machinery, and more, offering a versatile solution for every leveling requirement.



ROBUST CONSTRUCTION

Made with high-quality materials. The adjustable foot ensures exceptional durability, withstanding heavy loads and the most demanding environmental conditions.



PRACTICAL DESIGN

The intuitive design facilitates installation and daily use, allowing for easy and secure height adjustment.



UNIVERSAL ADAPTABILITY

Thanks to its universal adaptability, the foot is compatible with a variety of furniture and equipment, offering a leveling solution without compromise.



SUPPORT FOOT WITH STUD



FILE STEP
available online



material
POLIPROPILENE SUPLEN BLACK

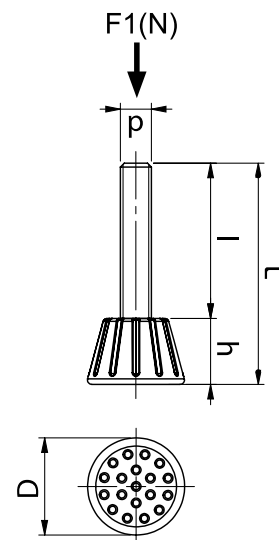
standard color
BLACK

surface
SATIN

insert
GALVANIZED STUD

on request
• **STAINLESS STEEL PIN**

alternative colors
• **ORANGE** RAL 2004
• **BLUE** RAL 5015
• **YELLOW** RAL 1021
• **RED** RAL 3000
• **GREEN** RAL 6024
• **GREY** RAL 7035
• **BLACK** RAL 9011



CODE __ (+l)	TYPE	D	L	d	__l	h	F1(N)	WEIGHT G
PIEAVZ0PPN25M6__	PD/25 M6X10	25	27	M6	10 / 15 / 20 / 25 / 30 / 35 / 40	17	1.000	12,7
PIEAVZ0PPN25M8__	PD/25 M8X10	25	27	M8	10 / 15 / 20 / 25 / 30 / 35 / 40	17	1.000	13,5
PIEAVZ0PPN48M8__	PD/48 M8X10	48	25,5	M8	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	15,5	1.000	27,6
PIEAVZ0PPN4810__	PD/48 M10X10	48	25,5	M10	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	15,5	1.000	36,4
PIEAVZ0PPN6010__	PD/60 M10X15	60	30	M10	15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60 / 65 / 70	15	1.000	45,8
PIEAVZ0PPN6012__	PD/60 M12X15	60	30	M12	15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60 / 65 / 70	15	1.000	56,6
PIEAVZ0PPN7510__	PDG/75 M10X15	74,5	32	M10	15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60 / 65 / 70	17	1.000	56,9

(mm)



FIXED FOOT WITH STUD



FILE STEP
available online



material
POLIPROPILENE SUPLEN BLACK

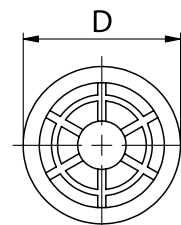
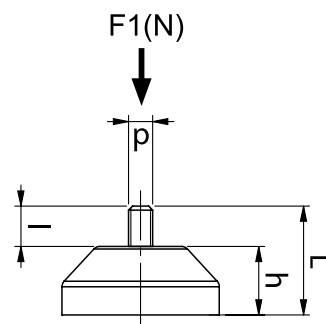
standard color
BLACK

surface
SATIN

insert
GALVANIZED STUD

on request
• **STAINLESS STEEL PIN**

alternative colors
• **ORANGE** RAL 2004
• **BLUE** RAL 5015
• **YELLOW** RAL 1021
• **RED** RAL 3000
• **GREEN** RAL 6024
• **GREY** RAL 7035
• **BLACK** RAL 9011



CODE __ (+I)	TYPE	D	L	d	__I	F1(N)	h	WEIGHT G
PIEFVZ0PPN30M6__	PF/30 M6X10	29,6	25	M6	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	2.000	15	10,03
PIEFVZ0PPN30M8__	PF/30 M8X10	29,6	25	M8	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	2.000	15	13,5
PIEFVZ0PPN3010__	PF/30 M10X10	29,6	25	M10	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	2.000	15	21,4
PIEFVZBPPN30M8__	PFB/30 M8X10	29,6	20	M8	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	2.000	10	10,33
PIEFVZ0PPN40M6__	PF/40 M6X10	39	27	M6	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	2.000	17	15,23
PIEFVZ0PPN40M8__	PF/40 M8X10	39	27	M8	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	2.000	17	20,3
PIEFVZ0PPN4010__	PF/40 M10X10	39	27	M10	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	2.000	17	29,1
PIEFVZ0PPN50M8__	PF/50 M8X10	49	29	M8	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	2.000	19	38
PIEFVZ0PPN5010__	PF/50 M10X10	49	29	M10	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	2.000	19	34,2
PIEFVZ0PPN5012__	PF/50 M12X10	49	29	M12	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60	2.000	19	41,5
PIEFVZ0PPN8010__	PF/80 M10X10	80	30,5	M10	10 / 15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60 / 65 / 70 / 75 / 80	2.000	20,5	57,4

(mm)



BASE, THREADED STEM WITH HEXAGONAL SEAT, NON-SLIP



FILE STEP
available online

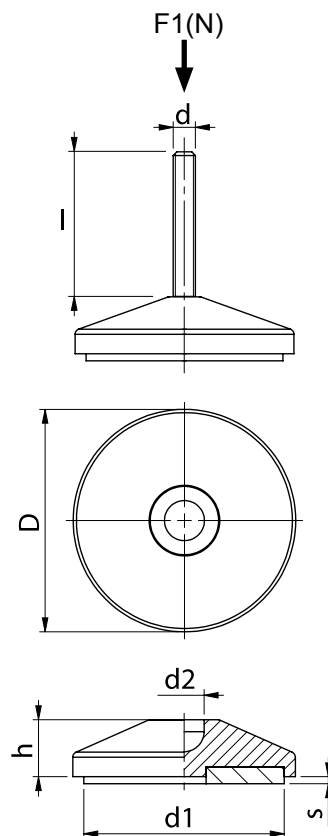


base
**MADE OF BLACK REINFORCED
POLYAMIDE**

special requests
inserts can be supplied in different
materials and lengths upon request

stem
**THREADED AND ARTICULATED
IN GALVANIZED STEEL**

non-slip disk
**IN 70 SHORE SBS THERMOPLASTIC
RUBBER**



CODE __ (+l)	TYPE	d	D	h	d1	s	d2	F1(N)	__l
PIEBPSSNFN30M6__	Stem + Base + Non-Slip	M6	30	15,5	23,9	1,5	12,5	10.000	40 (cod. 40)
PIEBPSGZNN40M8__	Stem + Base + Non-Slip	M8	40	17	31,8	2	12,5	10.000	45 (cod. 45) 70 (cod. 70)
PIEBPSGZNN50M8__	Stem + Base + Non-Slip	M8	50	19	41,8	2	12,5	10.000	45 (cod. 45) 70 (cod. 70)
PIEBPSGZNN4010__	Stem + Base + Non-Slip	M10	40	17	31,8	2	12,5	10.000	45 (cod. 45) 70 (cod. 70) 100 (cod. 01)
PIEBPSGZNN5010__	Stem + Base + Non-Slip	M10	50	19	41,8	2	12,5	10.000	45 (cod. 45) 70 (cod. 70) 100 (cod. 01)
PIEBPSGZNN8010__	Stem + Base + Non-Slip	M10	80	20,5	72	2,5	12,5	13.000	45 (cod. 45) 70 (cod. 70) 100 (cod. 01)
PIEBPSGZNN4012__	Stem + Base + Non-Slip	M12	40	17	31,8	2	12,5	10.000	45 (cod. 45) 70 (cod. 70) 100 (cod. 01)
PIEBPSGZNN5012__	Stem + Base + Non-Slip	M12	50	19	41,8	2	12,5	10.000	45 (cod. 45) 70 (cod. 70) 100 (cod. 01)
PIEBPSGZNN8012__	Stem + Base + Non-Slip	M12	80	20,5	72	2,5	12,5	13.000	45 (cod. 45) 70 (cod. 70) 100 (cod. 01)

(mm)



BASE, THREADED STEM WITH MILLED KEYWAY, NON-SLIP



FILE STEP
available online

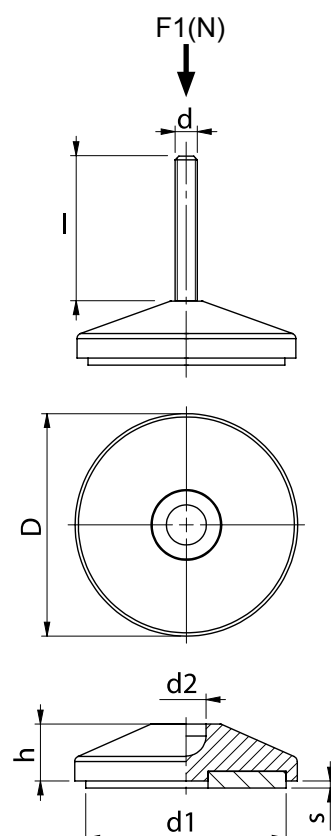


base
**MADE OF BLACK REINFORCED
POLYAMIDE**

stem
**THREADED AND ARTICULATED
IN GALVANIZED STEEL**

non-slip disk
**IN 70 SHORE SBS THERMOPLASTIC
RUBBER**

special requests
inserts can be supplied in different
materials and lengths upon request



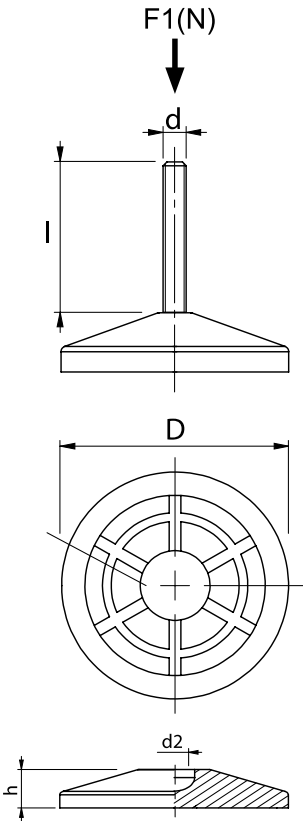
CODE __ (+l)	TYPE	d	D	h	d1	s	d2	F1(N)	__l
PIEBPSGZNN8016__	Stem + Base + Non-Slip	M16	80	20,5	75	2,5	14,5	13.000	70 (cod. 70) 90 (cod. 90) 110 (cod. 02) 130 (cod. 03) 150 (cod. 04)
PIEBPSGZNN0016__	Stem + Base + Non-Slip	M16	100	22	95	3	14,5	15.000	70 (cod. 70) 90 (cod. 90) 110 (cod. 02) 130 (cod. 03) 150 (cod. 04)
PIEBPSGZNN0020__	Stem + Base + Non-Slip	M20	100	22	95	3	14,5	15.000	70 (cod. 70) 100 (cod. 01) 130 (cod. 03) 150 (cod. 04) 190 (cod. 05)
PIEBPSGZNN1220__	Stem + Base + Non-Slip	M20	124	45	119	3,5	14,5	17.000	70 (cod. 70) 100 (cod. 01) 130 (cod. 03) 150 (cod. 04) 190 (cod. 05)
PIEBPSGZNN1224__	Stem + Base + Non-Slip	M24	124	45	119	3,5	14,5	17.000	150 (cod. 04) 190 (cod. 05) 210 (cod. 06)

(mm)

BASE, THREADED STEM HEXAGONAL SEAT



FILE STEP
available online



base
**MADE OF BLACK REINFORCED
POLYAMIDE**

special requests
inserts can be supplied in different
materials and lengths upon request

stem
**THREADED AND ARTICULATED
IN GALVANIZED STEEL**

CODE __(+l)	TYPE	d	D	h	d2	F1(N)	__l
PIEBPSSZNN40M8__	Stem + Base	M8	40	17	12,5	10.000	45 (cod. 45) 70 (cod. 70)
PIEBPSSZNN50M8__	Stem + Base	M8	50	19	12,5	10.000	45 (cod. 45) 70 (cod. 70)
PIEBPSSZNN40I0__	Stem + Base	M10	40	17	12,5	10.000	45 (cod. 45) 70 (cod. 70) 100 (cod. 01)
PIEBPSSZNN50I0__	Stem + Base	M10	50	19	12,5	10.000	45 (cod. 45) 70 (cod. 70) 100 (cod. 01)
PIEBPSSZNN80I0__	Stem + Base	M10	80	20,5	12,5	13.000	45 (cod. 45) 70 (cod. 70) 100 (cod. 01)
PIEBPSSZNN40I2__	Stem + Base	M12	40	17	12,5	10.000	45 (cod. 45) 70 (cod. 70) 100 (cod. 01)
PIEBPSSZNN50I2__	Stem + Base	M12	50	19	12,5	10.000	45 (cod. 45) 70 (cod. 70) 100 (cod. 01)
PIEBPSSZNN80I2__	Stem + Base	M12	80	20,5	12,5	13.000	45 (cod. 45) 70 (cod. 70) 100 (cod. 01)

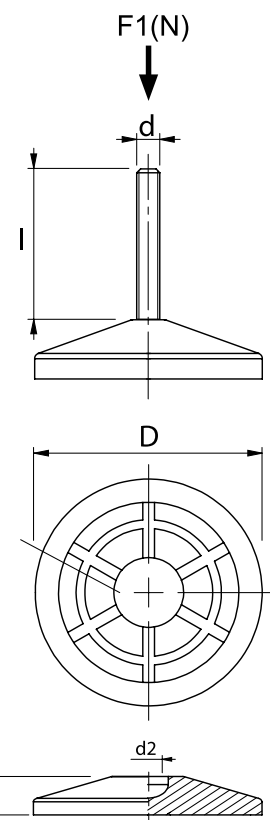
(mm)



BASE, THREADED STEM WITH MILLED KEYWAY



FILE STEP
available online



base
**MADE OF BLACK REINFORCED
POLYAMIDE**

special requests
inserts can be supplied in different
materials and lengths upon request

stem
**THREADED AND ARTICULATED
IN GALVANIZED STEEL**

CODE __ (+I)	TYPE	d	D	h	d2	F1(N)	__I
PIEBPSSZNN8016__	Stem + Base	M16	80	20,5	14,5	10.000	70 (cod. 70) 90 (cod. 90) 110 (cod. 02) 130 (cod. 03) 150 (cod. 04)
PIEBPSSZNN0016__	Stem + Base	M16	100	22	14,5	13.000	70 (cod. 70) 90 (cod. 90) 110 (cod. 02) 130 (cod. 03) 150 (cod. 04)
PIEBPSSZNN0020__	Stem + Base	M20	100	22	14,5	13.000	70 (cod. 70) 100 (cod. 01) 130 (cod. 03) 150 (cod. 04) 190 (cod. 05)
PIEBPSSZNN1220__	Stem + Base	M20	124	45	14,5	17.000	70 (cod. 70) 100 (cod. 01) 130 (cod. 03) 150 (cod. 04) 190 (cod. 05)
PIEBPSSZNN1224__	Stem + Base	M24	124	45	14,5	17.000	150 (cod. 04) 190 (cod. 05) 210 (cod. 06)

(mm)

BASE, NON-SLIP

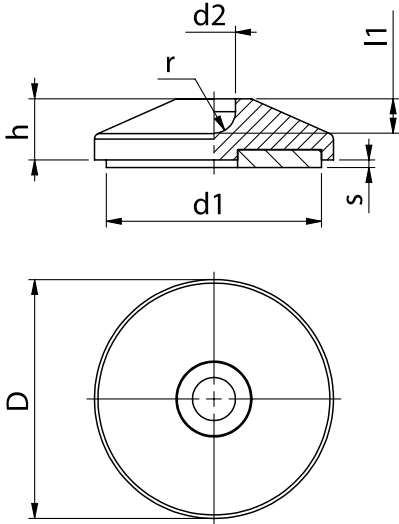


FILE STEP
available online



base
MADE OF BLACK REINFORCED
POLYAMIDE

non-slip disk
IN 70 SHORE SBS THERMOPLASTIC
RUBBER



CODE	TYPE	D	h	d1	l1	s	d2	r
PIEBCG0NFN300000	Base + Non-Slip	30	15,5	23,9	11,5	1,5	14,4	7,2
PIEBCG0NFN400000	Base + Non-Slip	40	17	31,8	11,5	2	14,4	7,2
PIEBCG0NFN500000	Base + Non-Slip	50	19	41,8	11,5	2	14,4	7,2
PIEBCG0NFN800000	Base + Non-Slip	80	20,5	72	11,5	2,5	14,4	7,2

(mm)

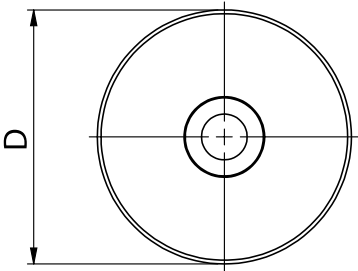
NON-SLIP DISK



FILE STEP
available online



non-slip disk
IN 70 SHORE SBS THERMOPLASTIC
RUBBER



CODE	TYPE	D
GOMB000GON300000	Non-slip disk	30
GOMB000GON400000	Non-slip disk	40
GOMB000GON500000	Non-slip disk	50
GOMB000GON800000	Non-slip disk	80

(mm)

THREADED STEM HEXAGONAL SEAT

THREADED STEM MILLED KEY SEAT

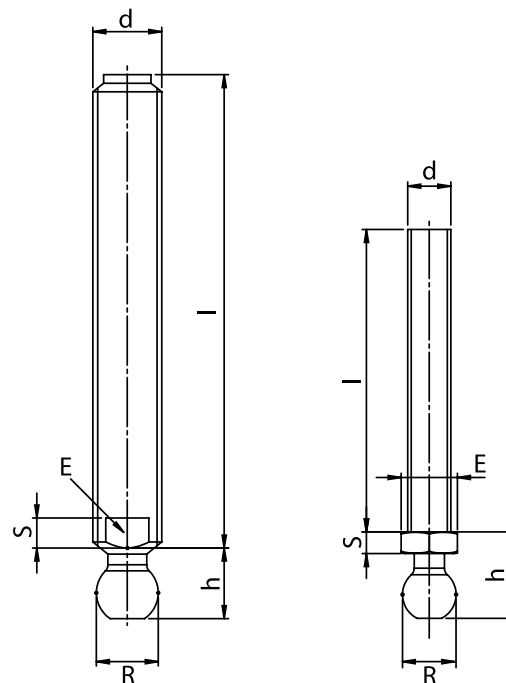


FILE STEP
available online



stem
**THREADED AND ARTICULATED
IN GALVANIZED STEEL**

special requests
inserts can be supplied in different
materials and lengths upon request



CODE __ (+l)	TYPE	d	l	R	h	S	E
STEBST0ZN001M845	Stem	M8	45	12,5	20	5	13
STEBST0ZN001M870	Stem	M8	70	12,5	20	5	13
STEBST0ZN0011045	Stem	M10	45	12,5	20	5	13
STEBST0ZN0011070	Stem	M10	70	12,5	20	5	13
STEBST0ZN0011001	Stem	M10	100	12,5	20	5	13
STEBST0ZN0011245	Stem	M12	45	12,5	20	5	13
STEBST0ZN0011270	Stem	M12	70	12,5	20	5	13
STEBST0ZN0011201	Stem	M12	100	12,5	20	5	13
STEBST0ZN0011670	Stem	M16	70	14,5	15	7	13
STEBST0ZN0011690	Stem	M16	90	14,5	15	7	13
STEBST0ZN0011602	Stem	M16	110	14,5	15	7	13
STEBST0ZN0011603	Stem	M16	130	14,5	15	7	13
STEBST0ZN0011604	Stem	M16	150	14,5	15	7	13
STEBST0ZN0012070	Stem	M20	70	14,5	17	7	16
STEBST0ZN0012001	Stem	M20	100	14,5	17	7	16
STEBST0ZN0012003	Stem	M20	130	14,5	17	7	16
STEBST0ZN0012004	Stem	M20	150	14,5	17	7	16
STEBST0ZN0012005	Stem	M20	190	14,5	17	7	16
STEBST0ZN0012404	Stem	M24	150	14,5	17	8	19
STEBST0ZN0012405	Stem	M24	190	14,5	17	8	19
STEBST0ZN0012406	Stem	M24	210	14,5	17	8	19

(mm)



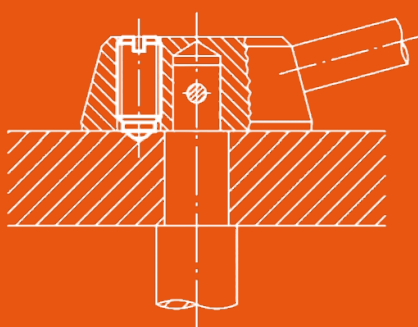
SPRING PLUNGERS AND INDEXING PINS

MON PLAST SPRING PLUNGERS
AND INDEXING PINS – RELIABLE
SOLUTIONS FOR INDEXING,
POSITIONING, AND FASTENING
COMPONENTS WITH A SPRING
SYSTEM.





Mon Plast clamping elements represent a reliable and versatile solution for a wide range of industrial applications. Our range also includes a family of spring plungers available in various configurations to meet the needs of different industries.



Spring plungers are designed for locking, positioning, and sliding components, contributing to vibration damping and improved operational stability. Indexing pins allow for quick and precise adjustment of parts, while ensuring position maintenance and preventing unwanted movement.



Spring plungers are functional solutions for indexing, positioning, and locking components. Easy to install and suitable for universal use.

SPRING PLUNGER WITH NOTCH AND BALL BURNISHED STEEL



FILE STEP
available online



Version - M06
Original size - 4 mm

MATERIAL

Steel body, strength class 5.8
Steel ball. Spring steel, class D

VERSION

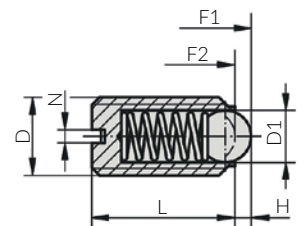
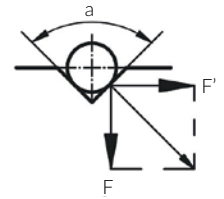
Burnished. Hardened ball.

INDICATIONS

Quick indexing, positioning,
and clamping of components.

AREAS OF USE

Machinery construction, plant construction,
crafts, household use
Easy assembly.



$a=60^\circ$, $F' = 1,732 \times F$
 $a=90^\circ$, $F' = F$
 $a=120^\circ$, $F' = 0,577 \times F$

COD.	Elastic force	D	L	D1	H	N	Elastic force beginning F1	Elastic force end F2
PRESATSAINM3700	standard	M3	7	1,5	0,4	0,4	1,5	3
PRESATSAINM4900	standard	M4	9	2,5	0,8	0,6	4	10
PRESATSAINM5200	standard	M5	12	3	0,9	0,8	6	11
PRESATSAINM6400	standard	M6	14	3,5	1	1	9	13
PRESATSAINM8600	standard	M8	16	5	1,5	1,2	15	30
PRESATSAINM10900	standard	M10	19	6	2	1,6	20	40
PRESATSAINM12200	standard	M12	22	8	2,5	2	30	55
PRESATSAINM16400	standard	M16	24	10	3,5	2,5	65	125
PRESATSAINM20000	standard	M20	30	12	4,5	2,5	80	160
PRESATPAINM3700	enhanced	M3	7	1,5	0,4	0,4	5	7
PRESATPAINM4900	enhanced	M4	9	2,5	0,8	0,6	12	22
PRESATPAINM5200	enhanced	M5	12	3	0,9	0,8	19	30
PRESATPAINM6400	enhanced	M6	14	3,5	1	1	28	40
PRESATPAINM8600	enhanced	M8	16	5	1,5	1,2	47	73
PRESATPAINM10900	enhanced	M10	19	6	2	1,6	66	100
PRESATPAINM12200	enhanced	M12	22	8	2,5	2	66	120
PRESATPAINM16400	enhanced	M16	24	10	3,5	2,5	90	180
PRESATPAINM20000	enhanced	M20	30	12	4,5	2,5	115	240

(mm)

SPRING PLUNGER WITH NOTCH AND BALL STAINLESS STEEL



FILE STEP
available online



Version - M06
Original size - 4 mm

MATERIAL

Stainless steel
Body 1.4305
Ball 1.4034
Spring 1.4310

DESIGN

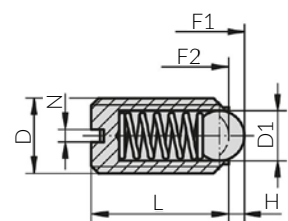
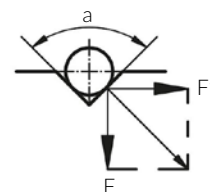
Untreated surface. Hardened ball.

INDICATIONS

Quick indexing, positioning, and clamping of components

AREAS OF USE

Machinery construction, plant construction, crafts, household.
Universal use and easy to assemble.



$a=60^\circ$, $F' = 1,732 \times F$

$a=90^\circ$, $F' = F$

$a=120^\circ$, $F' = 0,577 \times F$

COD.	Elastic force	D	L	D1	H	N	Elastic force beginning F1	Elastic force end F1
PRESATSAI0M3700	standard	M3	7	1,5	0,4	0,4	1,5	3
PRESATSAI0M4900	standard	M4	9	2,5	0,8	0,6	4	10
PRESATSAI0M5200	standard	M5	12	3	0,9	0,8	6	11
PRESATSAI0M6400	standard	M6	14	3,5	1	1	9	13
PRESATSAI0M8600	standard	M8	16	5	1,5	1,2	15	30
PRESATSAI0M10900	standard	M10	19	6	2	1,6	20	35
PRESATSAI0M12200	standard	M12	22	8	2,5	2	30	55
PRESATSAI0M16400	standard	M16	24	10	3,5	2,5	65	125
PRESATSAI0M20000	standard	M20	30	12	4,5	2,5	80	160
PRESATPAI0M3700	enhanced	M3	7	1,5	0,4	0,4	5	7
PRESATPAI0M4900	enhanced	M4	9	2,5	0,8	0,6	12	22
PRESATPAI0M5200	enhanced	M5	12	3	0,9	0,8	19	30
PRESATPAI0M6400	enhanced	M6	14	3,5	1	1	28	40
PRESATPAI0M8600	enhanced	M8	16	5	1,5	1,2	47	73
PRESATPAI0M10900	enhanced	M10	19	6	2	1,6	66	100
PRESATPAI0M12200	enhanced	M12	22	8	2,5	2	66	120
PRESATPAI0M16400	enhanced	M16	24	10	3,5	2,5	90	180
PRESATPAI0M20000	enhanced	M20	30	12	4,5	2,5	115	240

(mm)



FILE STEP
available online

PLASTIC SPRING PLUNGER WITH NOTCH AND POM BALL



Version - M06
Original size - 4 mm

MATERIAL

Plastic body
POM ball
Compression spring 1.4310

VERSION

White ball.

NOTE

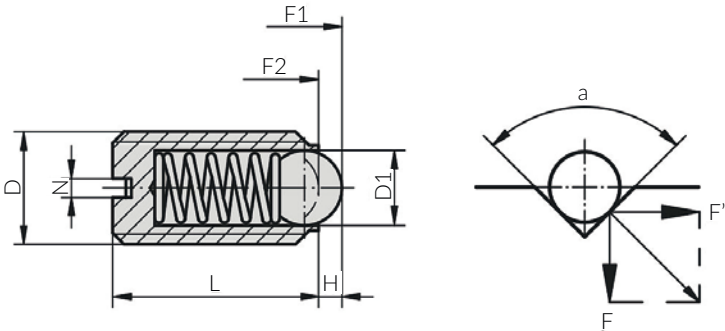
Spring plungers are used for indexing
and positioning objects and also serve as
tips and ejectors.

INDICATIONS

Quick indexing, positioning,
and clamping of components.

AREAS OF APPLICATION

Machinery construction, plant
construction, crafts, household.
Universal use.
Easy assembly.



$a=60^{\circ}, F' = 1,732 \times F$
 $a=90^{\circ}, F' = F$
 $a=120^{\circ}, F' = 0,577 \times F$

COD.	D	L	D1	H	N	Elastic force beginning F1	Elastic force end F1
PRESPTOPLNM6400	M6	14	3,5	1	1	9	13
PRESPTOPLNM8600	M8	16	5	1,5	1,2	15	30
PRESPTOPLNM10900	M10	19	6	2	1,6	20	40

(mm)



FILE STEP
available online

PLASTIC SPRING PLUNGER WITH NOTCH AND STAINLESS STEEL BALL



Version - M06
Original size - 4 mm

MATERIAL

Plastic body
Stainless steel ball 1.4034
Spring 1.4310

DESIGN

Hardened ball.

NOTE

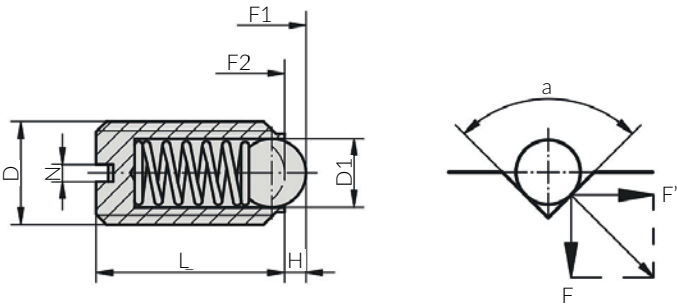
Spring plungers are used for indexing
and positioning objects and also serve as
tips and ejectors.

INDICATIONS

Quick indexing, positioning
and clamping of components

AREAS OF USE

Machinery construction, plant
construction, crafts, household.
Universal use.
Easy assembly.



$a=60^{\circ}, F' = 1,732 \times F$
 $a=90^{\circ}, F' = F$
 $a=120^{\circ}, F' = 0,577 \times F$

COD.	D	L	D1	H	N	Elastic force beginning F1	Elastic force end F1
PRESAT0PLNM6400	M6	14	3,5	1	1	9	13
PRESAT0PLNM8600	M8	16	5	1,5	1,2	15	30
PRESAT0PLNM10900	M10	19	6	2	1,6	20	40

(mm)

BURNISHED STEEL SPRING PLUNGER WITH HEXAGON SOCKET AND STAINLESS STEEL BALL



FILE STEP
available online



Version - M06
Original size - 4 mm

MATERIAL

Steel body, strength class 5.8

Steel ball

Spring made of spring steel, class D

VERSION

Burnished.

Hardened ball.

INDICATIONS

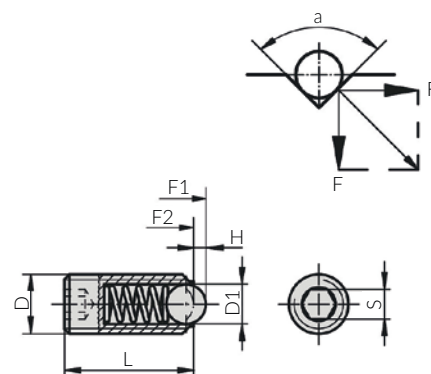
Quick indexing, positioning and clamping of components

AREAS OF USE

Machinery construction, plant construction, crafts, household use.

Universal use.

Easy assembly.



$$a=60^\circ, F' = 1,732 \times F$$

$$a=90^\circ, F' = F$$

$$a=120^\circ, F' = 0,577 \times F$$

COD.	Elastic force	D	L	D1	H	s	Elastic force beginning F1	Elastic force end F1
PRESAESAINM3900	standard	M3	9	1,5	0,4	1,5	1,5	3
PRESAESAINM4000	standard	M4	10	2,5	0,8	2	4	10
PRESAESAINM5400	standard	M5	14	3	0,9	2,5	6	11
PRESAESAINM6500	standard	M6	15	3,5	1	3	9	13
PRESAESAINM8800	standard	M8	18	5	1,5	4	15	30
PRESAESAINM10300	standard	M10	23	6	2	5	20	40
PRESAESAINM12600	standard	M12	26	8	2,5	6	30	55
PRESAESAINM16300	standard	M16	33	10	3,5	8	65	125
PRESAESAINM20300	standard	M20	43	12	4,5	10	80	160
PRESAESAINM24800	standard	M24	48	15	5,5	12	90	180
PRESAEPAINM3900	enhanced	M3	9	1,5	0,4	1,5	5	7
PRESAEPAINM4000	enhanced	M4	10	2,5	0,8	2	12	22
PRESAEPAINM5400	enhanced	M5	14	3	0,9	2,5	19	30
PRESAEPAINM6500	enhanced	M6	15	3,5	1	3	28	40
PRESAEPAINM8800	enhanced	M8	18	5	1,5	4	47	73
PRESAEPAINM10300	enhanced	M10	23	6	2	5	66	100
PRESAEPAINM12600	enhanced	M12	26	8	2,5	6	66	120
PRESAEPAINM16300	enhanced	M16	33	10	3,5	8	90	180
PRESAEPAINM20300	enhanced	M20	43	12	4,5	10	115	240
PRESAEPAINM24800	enhanced	M24	48	15	5,5	12	130	270

(mm)

STAINLESS STEEL SPRING PLUNGER WITH HEXAGON SOCKET STAINLESS STEEL BALL



FILE STEP
available online



Version - M06
Original size - 4 mm

MATERIAL

Stainless steel
Body 1.4305
Ball 1.4034
Spring 1.4310

DESIGN

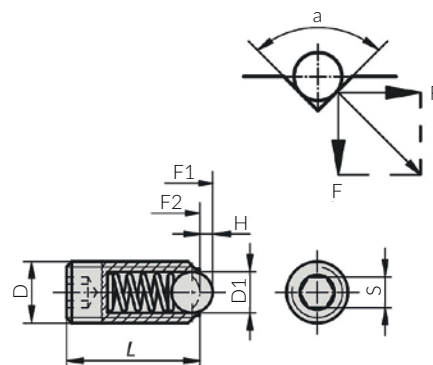
Untreated surface.
Hardened ball.

INDICATIONS

Quick indexing, positioning, and clamping of components.

AREAS OF USE

Machinery construction, plant construction, crafts, household.
Universal use and easy to assemble.
Hardened tip.



$a=60^\circ$, $F' = 1,732 \times F$
 $a=90^\circ$, $F' = F$
 $a=120^\circ$, $F' = 0,577 \times F$

COD.	Elastic force	D	L	D1	H	s	Elastic force beginning F1	Elastic force end F1
PRESAESAI0M3900	standard	M3	9	1,5	0,4	1,5	1,5	3
PRESAESAI0M4000	standard	M4	10	2,5	0,8	2	4	10
PRESAESAI0M5400	standard	M5	14	3	0,9	2,5	6	11
PRESAESAI0M6500	standard	M6	15	3,5	1	3	9	13
PRESAESAI0M8800	standard	M8	18	5	1,5	4	15	30
PRESAESAI0M10300	standard	M10	23	6	2	5	20	35
PRESAESAI0M12600	standard	M12	26	8	2,5	6	30	55
PRESAESAI0M16300	standard	M16	33	10	3,5	8	65	125
PRESAESAI0M20300	standard	M20	43	12	4,5	10	80	160
PRESAESAI0M24800	standard	M24	48	15	5,5	12	90	180
PRESAEPAI0M3900	enhanced	M3	9	1,5	0,4	1,5	5	7
PRESAEPAI0M4000	enhanced	M4	10	2,5	0,8	2	12	22
PRESAEPAI0M5400	enhanced	M5	14	3	0,9	2,5	19	30
PRESAEPAI0M6500	enhanced	M6	15	3,5	1	3	28	40
PRESAEPAI0M8800	enhanced	M8	18	5	1,5	4	47	73
PRESAESAI0M10300	enhanced	M10	23	6	2	5	66	100
PRESAESAI0M12600	enhanced	M12	26	8	2,5	6	66	120
PRESAESAI0M16300	enhanced	M16	33	10	3,5	8	90	180
PRESAESAI0M20300	enhanced	M20	43	12	4,5	10	115	240
PRESAESAI0M24800	enhanced	M24	48	15	5,5	12	130	270

(mm)

SMOOTH SPRING PLUNGER IN PLASTIC WITH POM / STAINLESS STEEL BALL



FILE STEP
available online



Version - M06
Original size - 4 mm

MATERIAL

Thermoplastic resin body
Stainless steel spring
Stainless steel or POM ball

VERSION

Black body.
Hardened, untreated ball.

INDICATIONS

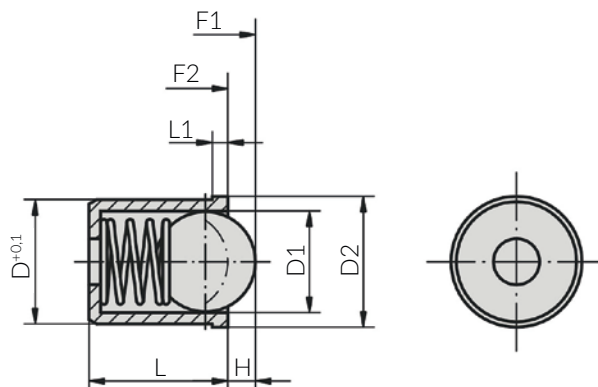
Quick indexing, positioning, and
clamping of components

APPLICATION AREAS

Machinery construction, plant
construction, crafts, household use.

UNIVERSAL USE.

Easy assembly.



COD.	Mat. Comp.	D	L	D1	D2	H	L1	Elastic force beginning F1	Elastic force end F1
PRESA00PLN04500	stainless steel	4	5	3	4,6	0,7	1	3	7
PRESA00PLN05600	stainless steel	5	6	4	5,6	1	1	4	7
PRESA00PLN06700	stainless steel	6	7	5	6,5	1,5	1	6	12
PRESA00PLN08900	stainless steel	8	9	6,5	8,5	1,8	1	6	12
PRESA00PLN10300	stainless steel	10	13,5	8	12	2,7	2,5	10	20
PRESA00PLN12600	stainless steel	12	16	10	14	3,5	2,5	15	25
PRESP00PLN04500	POM	4	5	3	4,6	0,7	1	3	7
PRESP00PLN05600	POM	5	6	4	5,6	1	1	4	7
PRESP00PLN06700	POM	6	7	5	6,5	1,5	1	6	12
PRESP00PLN08900	POM	8	9	6,5	8,5	1,8	1	6	12
PRESP00PLN10300	POM	10	13,5	8	12	2,7	2,5	10	20
PRESP00PLN12600	POM	12	16	10	14	3,5	2,5	15	25

(mm)

SMOOTH SPRING PLUNGER IN STAINLESS STEEL WITH POM / STAINLESS STEEL BALL



FILE STEP
available online



Version - M06
Original size - 4 mm

MATERIAL

Stainless steel body and spring
Stainless steel or POM ball

VERSION

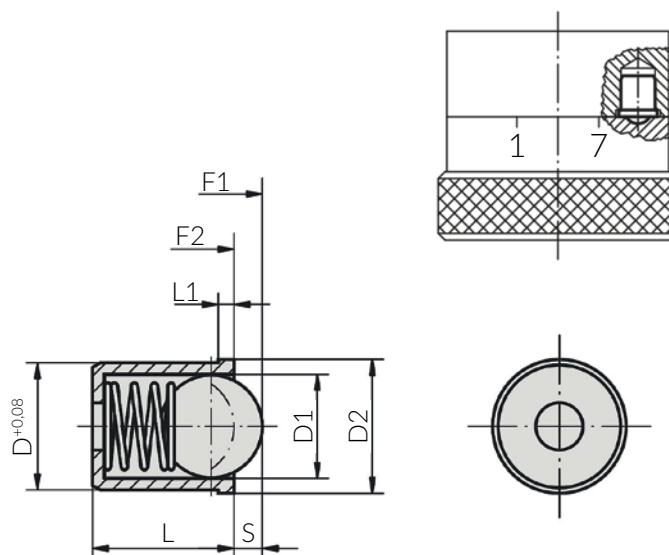
Untreated body.
Hardened, untreated ball.

INDICATIONS

Quick indexing, positioning, and
clamping of components

APPLICATION AREAS

Machinery construction, plant
construction, crafts, household
Universal use.
Easy assembly.



COD.	Mat. Comp.	D	L	D1	D2	H	L1	Elastic force beginning F1	Elastic force end F1
PRESA00AI0002300	stainless steel	2	3	1,5	2,5	0,6	0,4	1,2	2,5
PRESA00AI0003400	stainless steel	3	4	2,5	3,5	0,8	0,65	1,7	3,4
PRESA00AI004500	stainless steel	4	5	3	4,6	1	0,8	3	7
PRESA00AI005600	stainless steel	5	6	4	5,6	1	1	4	7
PRESA00AI006700	stainless steel	6	7	5	6,5	1	1,5	6	12
PRESA00AI008900	stainless steel	8	9	6,5	8,5	1	1,8	6	12
PRESA00AI010300	stainless steel	10	13,5	8	12	2,5	2,7	10	20
PRESA00AI012600	stainless steel	12	16	10	14	2,5	3,5	15	25
PRESP00AI004500	POM	4	5	3	4,6	1	0,6	3	7
PRESP00AI005600	POM	5	6	4	5,6	1	0,8	4	7
PRESP00AI006700	POM	6	7	5	6,5	1	1,3	6	12
PRESP00AI008900	POM	8	9	6,5	8,5	1	1,6	6	12
PRESP00AI010300	POM	10	13,5	8	12	2,5	2,6	10	20
PRESP00AI012600	POM	12	16	10	14	2,5	3,3	15	25

(mm)

INDEXING PINS



FILE STEP
available online

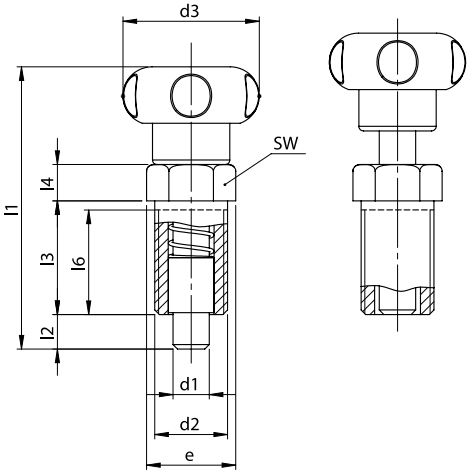


lobed handwheel
**NYLON 6 LOADED
BLACK FIBERGLASS**

insert
STEEL

bushing
STAINLESS STEEL

pin
HARDENED STEEL



COD.	TYPE	d1	d2	d3	e	l1	l2	l3	l4	l6	sw	LOAD MAX.	WEIGHT G
SPIPZ5LNFN2010X1	SPI PZ D.20 M10X1	5	M10x1	20	12,5	46	5	17	8	15,5	11	15	21
SPIPZ5LNFN201215	SPI PZ D.20 M12X1,5	6	M12x1.5	20	16	50	6	20	8	17,5	14	17	31
SPIPZ5LNFN301215	SPI PZ D.30 M12X1,5	6	M12x1.5	30	16	50	6	20	8	17,5	14	17	31
SPIPZ5LNFN301615	SPI PZ D.30 M16X1,5	8	M16x1.5	30	19,5	62.5	8	25	8	21,5	17	19	67
SPIPZ5LNFN402015	SPI PZ D.40 M20X1,5	10	M20x1.5	40	25	80	10	33	9	28,5	22	30	121

(mm)



CAPS

PROTECTION AND SEALING



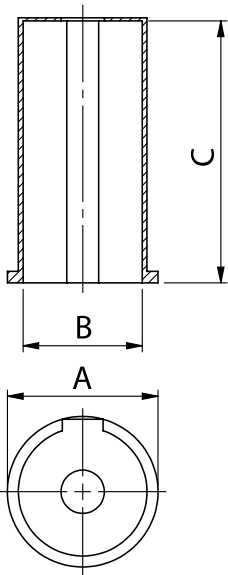
- TSO OIL DRAIN PLUG
- TSLO OIL LEVEL SIGHT PLUG
- CA SHAFT COVER CAP
- TCF THREAD COVER CAP
- TSF THREAD PROTECTOR



SHAFT COVER CAP



FILE STEP
available online



material
POLYPROPYLENE

standard color
YELLOW

- alternative colors
- **ORANGE** RAL 2004
 - **BLUE** RAL 5015
 - **YELLOW** RAL 1021
 - **RED** RAL 3000
 - **GREEN** RAL 6024
 - **GREY** RAL 7035
 - **BLACK** RAL 9011

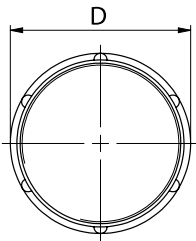
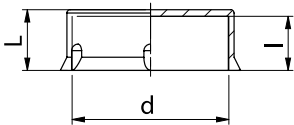
CODE	TYPE	A	B	C	WEIGHT G
TAPCAPE005600000	CA D.56	16,5	9	23	0,9
TAPCAPE006300000	CA D.63	17,5	12	26	1,6
TAPCAPE007100000	CA D.71	22	14	34	2,4
TAPCAPE008000000	CA D.80	28	18	44	4,7
TAPCAPE009000000	CA D.90	33	23	53	5,2
TAPCAPE010000000	CA D.100	37,5	28	62	12,1
TAPCAPE013200000	CA D.132	48	38	83,5	16

(mm)

THREAD COVER CAP



FILE STEP
available online



material

POLYPROPYLENE

standard color

OPAQUE TRANSPARENT

alternative colors

- **ORANGE** RAL 2004
- **BLUE** RAL 5015
- **YELLOW** RAL 1021
- **RED** RAL 3000
- **GREEN** RAL 6024
- **GREY** RAL 7035
- **BLACK** RAL 9011

CODE	TYPE	D	L	I	d	WEIGHT G
TAPCFPE01/200000	TCF 1/2"	25,5	11	10	1/2"	1,3
TAPCFPE03/400000	TCF 3/4"	29,3	14,5	12,5	3/4"	2,6
TAPCFPE01/100000	TCF 1"	39	16	14,5	1"	3,8
TAPCFPE011200000	TCF 1 1/2"	55	18,5	16,5	1 1/2"	7,5

(mm)



THREAD PROTECTION CAP



FILE STEP
available online



material

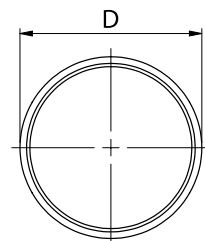
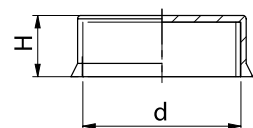
POLYPROPYLENE

standard color

OPAQUE TRANSPARENT

alternative colors

- ORANGE RAL 2004
- BLUE RAL 5015
- YELLOW RAL 1021
- RED RAL 3000
- GREEN RAL 6024
- GREY RAL 7035
- BLACK RAL 9011



CODE	d	D	H	METRIC THREAD	GAS THREAD
TAPSFPE000300000	3	6,5	4,5		
TAPSFPE000350000	3,5	7	4,5	M4	
TAPSFPE000400000	4	7,5	5		
TAPSFPE000450000	4,5	8	5	M5	
TAPSFPE000500000	5	9	6	M6	
TAPSFPE000550000	5,5	9	6		
TAPSFPE000600000	6	9,5	6	M7	
TAPSFPE000650000	6,5	9,5	7		
TAPSFPE000700000	7	10	7	M8	
TAPSFPE000750000	7,5	10,5	7	M8x1	
TAPSFPE000800000	8	11	7		
TAPSFPE000850000	8,5	11,5	7,5	M10	
TAPSFPE000900000	9	11,5	7,5	M10x1	G 1/8"
TAPSFPE000950000	9,5	12,5	7,5		
TAPSFPE001000000	10	13	8,5		
TAPSFPE010500000	10,5	13,5	8	M12 / M12x1,5	
TAPSFPE001100000	11	14	8,5	M12x1,25	
TAPSFPE011500000	11,5	14,5	9	M12x1	
TAPSFPE001200000	12	14,5	9		G 1/4"
TAPSFPE012500000	12,5	15,5	9	M14	
TAPSFPE001300000	13	16,5	9,5	M14x1,5	
TAPSFPE013500000	13,5	16,5	9,5		
TAPSFPE001400000	14	17,5	9,5		
TAPSFPE014500000	14,5	17,5	9,5	M16	
TAPSFPE001500000	15	18	9,5	M16x1,5	

(mm)

CODE	d	D	H	METRIC THREAD	GAS THREAD
TAPSFPE015500000	15,5	18,5	9,5		G 3/8"
TAPSFPE001600000	16	19,5	10	M18	
TAPSFPE016500000	16,5	19,5	10,5	M18x2	
TAPSFPE001700000	17	20,5	10,5	M18x1,5	
TAPSFPE017500000	17,5	20,5	10,5		
TAPSFPE001800000	18	21,5	10,5	M20	
TAPSFPE018500000	18,5	22	10	M20x2	
TAPSFPE001900000	19	22	10,5	M20x1,5	G 1/2"
TAPSFPE019500000	19,5	23	10,5		
TAPSFPE002000000	20	23,5	10,5	M22	
TAPSFPE020500000	20,5	24,5	10,5	M22x2	
TAPSFPE002100000	21	24,5	11	M22x1,5	G 5/8"
TAPSFPE021500000	21,5	25,5	11	M24	G 5/8"
TAPSFPE002200000	22	25,5	11		
TAPSFPE022500000	22,5	26	10,5	M24x2	
TAPSFPE002300000	23	27	10,5		
TAPSFPE023500000	23,5	27	10,5		
TAPSFPE002400000	24	28	11		
TAPSFPE024500000	24,5	28	10,5	M27	G 3/4"
TAPSFPE002500000	25	28	12		G 3/4"
TAPSFPE025500000	25,5	29	10,5	M27x2	
TAPSFPE002600000	26	30,5	10,5	M27x1,5	
TAPSFPE026500000	26,5	30	10,5		
TAPSFPE002700000	27	31	10	M30 \ M28x1,5	
TAPSFPE027500000	27,5	31	10,5		

CODE	d	D	H	METRIC THREAD	GAS THREAD
TAPSFPE002800000	28	32	10		
TAPSFPE028500000	28,5	32	10	M30x2	G 7/8"
TAPSFPE002900000	29	32	10	M30x1,5	
TAPSFPE029500000	29,5	33	10,5		
TAPSFPE003000000	30	33	10	M33	
TAPSFPE030500000	30,5	33,5	10,5		
TAPSFPE003100000	31	35,5	10,5	M32x1,5	G 1"
TAPSFPE031500000	31,5	35	10,5	M33x2	
TAPSFPE003200000	32	37	10,5		
TAPSFPE032500000	32,5	37	10,5	M36	
TAPSFPE003300000	33	37,5	10,5		
TAPSFPE033500000	33,5	37,5	10,5	M36x3	
TAPSFPE003400000	34	38	10,5		
TAPSFPE034500000	34,5	38,5	10,5		
TAPSFPE035000000	35	40	10,5	M36x2 \ M36x1,5	
TAPSFPE035500000	35,5	39	10,5	M39	G 1,1/8"
TAPSFPE003600000	36	40,5	10,5		G 1,1/8"
TAPSFPE036500000	36,5	40	10,5	M39x3	
TAPSFPE003700000	37	41,5	10,5		
TAPSFPE037500000	37,5	41,5	10,5	M39x2	
TAPSFPE003800000	38	43	10,5	M42 \ M39x1,5	
TAPSFPE038500000	38,5	42	10,5		
TAPSFPE003900000	39	44	10,5		
TAPSFPE039500000	39,5	43	11	M42x3	G 1,1/4"
TAPSFPE004000000	40	44	10,5		G 1,1/4"
TAPSFPE040500000	40,5	45	11	M42x2	
TAPSFPE004100000	41	45,5	10,5	M45 \ M42x1,5	
TAPSFPE004200000	42	46,5	10,5		G 1,3/8"
TAPSFPE004300000	43	47,5	10,5		G 1,3/8"
TAPSFPE004400000	44	49	10,5	M48 \ M45x2 \ M45x1,5	
TAPSFPE004600000	45	52,5	10,5		
TAPSFPE045000000	46	50,5	10,5		G 1,1/2"
TAPSFPE004700000	47	51,5	10,5	M52 \ M48x2 \ M48x1,5	
TAPSFPE004800000	48	52,5	10,5		
TAPSFPE048500000	48,5	53	10,5		
TAPSFPE004900000	49	54,5	11	M52x3	
TAPSFPE005000000	50	54	10		
TAPSFPE005100000	51	56	11	M56 \ M52x2 \ M52x1,5	G 1,3/4"
TAPSFPE005200000	52	57,5	11		G 1,3/4"
TAPSFPE005300000	53	58,5	11		

(mm)

CODE	d	D	H	METRIC THREAD	GAS THREAD
TAPSFPE005400000	54	59	10,5	M55x1,5	
TAPSFPE055000000	55	60	10,5	M56x1,5	
TAPSFPE056000000	56	61	10	M60x4	
TAPSFPE005700000	57	61	10		
TAPSFPE005800000	58	65	11	M60x2	G 2"
TAPSFPE005900000	59	65	11	M60x1,5	
TAPSFPE006000000	60	64	11		
TAPSFPE006100000	61	67	11		
TAPSFPE006200000	62	67	11		
TAPSFPE063000000	63	67	10		
TAPSFPE006400000	64	68	10		G 2,1/4"
TAPSFPE065000000	65	69	10,5		
TAPSFPE006600000	66	71	10,5		
TAPSFPE006700000	67	73	10		
TAPSFPE006800000	68	75	11		
TAPSFPE006900000	69	75	10,5		
TAPSFPE007000000	70	74	10,5		
TAPSFPE071000000	71	77	11		
TAPSFPE007200000	72	78	11		
TAPSFPE007300000	73	76,5	9,5		
TAPSFPE007400000	74	78	10,5		G 2,1/2"
TAPSFPE075000000	75	79	9,5		
TAPSFPE007600000	76	80	10,5		
TAPSFPE007700000	77	81	10		
TAPSFPE007800000	78	82	10,5		
TAPSFPE007900000	79	83	10		G 2,3/4"
TAPSFPE080000000	80	84	10		G 2,3/4"
TAPSFPE008100000	81	85	10		
TAPSFPE008200000	82	86	10		
TAPSFPE008300000	83	87	10		
TAPSFPE008400000	84	90	10		
TAPSFPE085000000	85	89	10		
TAPSFPE008600000	86	90	10		G 3"
TAPSFPE008700000	87	91	10		
TAPSFPE008800000	88	92	10		
TAPSFPE008900000	89	92,5	9,5		
TAPSFPE090000000	90	94	10		
TAPSFPE009100000	91	96	10		
TAPSFPE009200000	92	97	10		
TAPSFPE009300000	93	98	10		
TAPSFPE009400000	94	99	10		
TAPSFPE095000000	95	100	10		
TAPSFPE009600000	96	101	10		
TAPSFPE009700000	97	102	10		
TAPSFPE009800000	98	103	10		G 3,1/2"
TAPSFPE009900000	99	104	10		G 3,1/2"
TAPSFPE010000000	100	105	10		
TAPSFPE010100000	101	106	10		

OIL LEVEL INDICATOR CAP



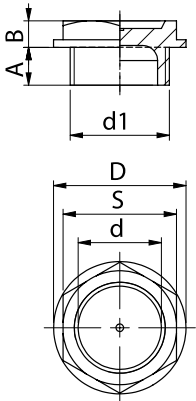
FILE STEP
available online



material
NYLON 6

standard color
TRANSPARENT

- alternative colors
- **ORANGE** RAL 2004
 - **BLUE** RAL 5015
 - **YELLOW** RAL 1021
 - **RED** RAL 3000
 - **GREEN** RAL 6024
 - **GREY** RAL 7035
 - **BLACK** RAL 9011



CODE	TYPE	D	A	B	S	d	d1	WEIGHT G
TAPSLPET00001400	TSLO 1/4"	20	7,5	6,5	17	12	1/4 GAS	4,4
TAPSLPET0003/800	TSLO 3/8"	22	10	6,5	18	14,5	3/8 GAS	5,6
TAPSLPET0003/400	TSLO 3/4"	35	10	7	30	22	3/4 GAS	7,1

(mm)

OIL DRAIN PLUG



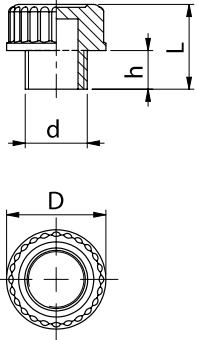
FILE STEP
available online



material
NYLON 6

standard color
BLACK

- alternative colors
- **ORANGE** RAL 2004
 - **BLUE** RAL 5015
 - **YELLOW** RAL 1021
 - **RED** RAL 3000
 - **GREEN** RAL 6024
 - **GREY** RAL 7035
 - **BLACK** RAL 9011



CODE	TYPE	D	L	h	d	WEIGHT G
TAPSOPE000001400	TSO 1/4 "	20,5	17,5	8	1/4 GAS	4,3
TAPSOPE0000014F00	TSO 1/4 " F	20,5	17,5	8	1/4 GAS FORO	4,3

(mm)



1. GENERAL TERMS AND CONDITIONS OF SALE

1. Delivery of Goods All materials subject to quotation or sale are understood to be sold Ex Works (EXW) our facility. Packaging costs are charged at cost price.

2. Transport and Risks

Shipments made by Mon Plast Srl always travel at the sole risk and peril of the customer. Mon Plast Srl declines all responsibility for any damage, total or partial loss of goods occurring during transport.

3. Deadlines for Claims

Any disputes will be considered exclusively if sent in writing no later than 8 working days from the date of receipt of the goods. Claims received through different methods or timeframes will not be accepted.

4. Warranty and Liability

The products illustrated in this catalog are guaranteed against raw material defects or manufacturing errors. The warranty does not cover defects not attributable to the company. Mon Plast Srl declines all responsibility for direct or indirect damage resulting from the use of the goods produced. Should defects attributable to workmanship or material be ascertained, the goods must be returned to Mon Plast Srl, which will provide for their free replacement. In such circumstances, transport costs will be borne by Mon Plast Srl.

5. Impossibility of Replacement

In the event that the replacement of defective goods is not possible, a credit note will be issued for the full invoiced value.

6. Return Procedure

Any return of goods must be previously authorized in writing by our sales office. Goods arriving at our warehouse without such authorization will be refused and returned to the sender with transport costs at their expense.

7. Shipping Errors

In case of errors attributable to Mon Plast Srl in shipping, the goods must be returned according to the methods agreed upon with the sales office. Transport costs will be borne by Mon Plast Srl and the full value of the goods will be credited.

8. Ordering Errors by the Customer

Any return requests for ordering errors will be evaluated by Mon Plast Srl based on quantities and accepted exclusively for standard material present in the latest edition of the general catalog.

The right to return is limited exclusively to cases of order non-conformity attributable to Mon Plast. Specifically, the return will be authorized only if the goods are incorrect compared to what was ordered or show damage occurred during the product loading phase. In any case, the defect must be traceable to a direct responsibility of the seller.

Method: To be agreed with the sales office.

Transport: At the customer's expense.

Credit: The credited value will be equal to the invoice amount minus a percentage as relocation costs (counting, cleaning, unpacking/repositioning). This deduction will vary from a minimum of 10% up to a maximum of 50%.

9. Order Cancellation and Tolerances

Order cancellation is accepted only in writing and limited to standard products from the latest general catalog.

Custom-made items (Special Execution): Cancellation is possible only if the production of any component has not started. If production has started, the goods will be regularly delivered and invoiced.

Quantitative tolerance: For special execution items, delivery may undergo a quantitative variation compared to the order with a tolerance of -2% / +10%. (Ref. ver. NTIT.18-0719)

10. Validity of Technical Data and Modifications

The dimensions and product types reported in the catalog are indicative and not binding. Mon Plast Srl reserves the right to make changes, additions, or deletions to products without notice, for technical-qualitative or commercial reasons.

11. Payments and Unpaid Invoices

The payment terms indicated on the invoice are mandatory; unauthorized discounts or rounding are not allowed.

Unpaid invoice fees: In case of non-payment, a fixed fee of €12 will be charged.

Interest: Delays exceeding 30 days from the due date will result in the application of late payment interest.

Credit block: Upon the second consecutive unpaid invoice, subsequent supplies will be processed exclusively with advance payment.

12. Order Management Fees and Small Amounts

Invoices up to €50 (taxable): Automatic charge of €10 for management fees.

Invoices up to €150 (taxable): Payment accepted exclusively via advance bank transfer.

Higher amounts: Standard bank payments to be agreed with the sales office.

13. Invoicing

The invoice will be issued in electronic format (SDI) as provided by Italian law. As a courtesy, a copy in PDF format will also be temporarily sent.

14. Retention of Title

Ownership of the goods transfers to the buyer only at the time of full payment of the agreed price. Until that date, the buyer assumes the role of depositary responsible for the custody of the goods, without right to any compensation.

15. Competent Court

For any legal dispute, the Court of Vicenza shall have exclusive jurisdiction.

2. PRODUCT RESERVATIONS

2.1 Weights

The weights indicated in the tables of this catalog are purely indicative and not binding. Any discrepancies found are to be attributed to natural variations in the specific weights of the individual materials used.

2.2 Dimensions of Plastic Parts

The dimensions of the plastic parts reported in the catalog were measured based on warehouse samples. It is therefore possible to find dimensional deviations on the supplied pieces, with a tolerance varying from 0.1 to 0.6 mm compared to the declared values.

2.3 Product Modification

Mon Plast reserves the final right to modify the dimensions, geometry, or shape of the items in the latest version of the catalog at any time and without obligation of notice.

2.4 Colors and Finishes

As indicated in the latest version of the catalog, most products are available in colored variants. It is specified that the cited RAL reference corresponds exclusively to that of the masterbatch (pigment) used. The color of the finished product might not perfectly match the reference color swatches for the following technical reasons:

Presence of glass fiber: Glass fiber cannot be colored. Its presence in percentages of 15-30% tends to reflect white light, causing a general lightening of the chosen shade.

Surface finish: The SATIN surface, which characterizes most of our products, reflects light differently than glossy surfaces, making the color appear lighter. This phenomenon is clearly visible in the color test plates we produce, where the GLOSSY section appears darker than the SATIN one despite being made with the same material.

Nature of the polymer: The same color grade can take on different shades if molded using different base plastic materials.

3. COMPLIANCE AND REGULATIONS

3.1 RoHS Regulation

It is certified that all products in the catalog are manufactured in full compliance with the RoHS 3 environmental regulation (2015/863/EC). Mon Plast guarantees compliance during the production phase by performing timely checks with its suppliers at every variation. The relative declarations of conformity can be found in the reserved area of our website or requested directly from our Quality Office.

3.2 REACH Regulation

As a processor of raw materials, Mon Plast does not synthesize or introduce new chemical compounds and, therefore, is not subject to the obligation to report hazardous substances to the EC REACH Commission. However, the company verifies that all raw material suppliers fulfill the prescribed obligations. Mon Plast monitors the update of the SVHC CANDIDATE LIST every six months, providing for the consequent update of its declarations.

3.3 Conflict Minerals

Mon Plast declares that all products in the catalog do not contain minerals from conflict zones ("Conflict Minerals"), in compliance with the US regulation – Section 1502 of the Dodd-Frank Wall Street Reform and Consumer Protection Act.

3.4 Product Compliance

Mon Plast guarantees that all items produced and marketed are fully compliant with the agreed technical specifications, approved drawings, and offers stipulated with customers.

3.5 Quality Certification

Mon Plast operates according to a Quality Management System compliant with the UNI EN ISO 9001:2015 standard, with certificate no. 9190.Monp.

4. MATERIALS

The selection of materials used in the production of our handles is the result of careful research aimed at obtaining the best quality-price ratio and optimizing performance according to the intended use. Base raw materials are often modified through specific formulations to enhance characteristics such as resilience, strength, dimensional stability, and surface quality. Although the TYPE of material is indicated on every page of the catalog, a summary is provided below for easier consultation.

For detailed requirements, specific technical data sheets can be requested from our Sales/Quality office. Registered users can also download technical documentation in PDF format directly from the reserved area of the website.

4.1 PLASTIC MATERIALS

This category includes almost all materials used for Mon Plast handles.

- **Polyamide 6 (PA6 – Nylon):** It is the technopolymer of choice for our production. It stands out for its high mechanical resistance characteristics (further increased in reinforced versions), good stability to chemical agents, and excellent resistance to impacts and sudden stresses. It is used in various variants with glass fiber fillers, glass microspheres, or mineral fillers in percentages ranging from 15% to 40%.

- **Polycarbonate (PC):** Mainly used for the production of CE safety guards. Used pure in Orange and Yellow colors. For products code T558 and T559, the transparent version (PC Crystal) is used.

- **Polystyrene (PS):** Used in high-impact and self-extinguishing variants, with or without reinforcing fillers. It finds application mainly in products of the TR family.

- **Polypropylene (PP):** Used with mineral reinforcements and special additives, or in a blend with TPV rubber as a replacement for standard Polypropylene. Sometimes used for the production of colored items.

- **Polymethylmethacrylate (PMMA):** Chosen for its excellent optical transparency properties, similar to glass, it is used as a screen for indicators.

- **Polyoxymethylene (POM):** Commonly known by the trade name Delrin, it is selected for its hardness and mechanical resistance characteristics. Used for the production of balls and tips in the W and P families.

- **Nitrile Rubber (NBR):** Thermosetting (vulcanized) material characterized by excellent resistance to chemical agents. Used for the non-slip bases of support feet.

- **Thermoplastic Rubber (TPV):** Cross-linked thermoplastic elastomer to increase its mechanical and chemical performance. It represents an excellent recyclable alternative to NBR rubber. Used in the M-S-P families as a non-slip base.

- **Bakelite (PF31 – Thermosetting Phenolic Resins):** Phenolic-based thermosetting material with a characteristic glossy appearance. Although its use is reduced due to fragility and lower mechanical resistance compared to modern technopolymers, it is still used where high electrical or thermal insulation is required.

4.2 METALS AND ALLOYS

Metals and alloys are used both for the production of structural components and for inserts embedded in the plastic material.

- **Steel for small parts / High speed (AVP):** Used for all lathe-machined inserts.

Official designation: CF9SMnPb36.

- **Steel for heat treatments:** Intended for inserts that require superior mechanical resistance and must undergo treatments (hardening, nitriding) or welding.

Official designation: CF35SMnPb10.

- **AISI 303 Stainless Steel:** Standard for all stainless inserts.

Official designation: X10CrMnS1809 (or 1.4305 German standard).

- **AISI 304 Stainless Steel:** Used for inserts needing greater resistance to atmospheric agents, as well as for pins and bolts.

Official designation: X10CrMnS1810 (or 1.4303 German standard).

- **C10 Cold Heading Steel:** Used for standard production of screws and nuts.

- **Brass (OT58):** Alloy used for small inserts with threaded holes.

- **Zamak (Alloy 15):** Die-cast alloy of Zinc, Aluminum, and Copper (ZnAl4Cu1), used for various components of the Metalline line.

- **Aluminum (Alloy 6060):** Used for tubes in the B family and for components in the W family.

4.3 SURFACE FINISHES

- **Blue Zinc Plating:** Standard galvanic treatment for all steel inserts, performed with a thickness of 3 to 5 µm.

- **Burnishing (Black Oxidation):** Standard treatment for many inserts in the A and M families, as well as for inserts with H7 precision tolerance or special machining.

- **Epoxy Powder Coating:** Finishing treatment applied to many aluminum and zamak components.

- **Electroless Nickel Plating:** Surface coating treatment available upon request for inserts and specific items in the W family.

5. TEMPERATURE RESISTANCE (MANUFACTURERS' VALUES)

The temperature resistance of plastic materials is not an absolute value but is influenced by various external factors: the determining variables are the duration of exposure to the heat source and the extent of the applied mechanical stresses. The main risk associated with thermal exposure is the progressive softening of the material. In this critical phase, the application of a force (e.g., tightening torque) can compromise the bond between the plastic matrix and the embedded metal insert, causing component failure. Although the inserts are designed with specific geometries (knurling/undercuts) to ensure maxi-

mum anchoring, exceeding the limit temperatures inevitably compromises the functionality of the piece.

Below are the official technical values relative to the raw materials. However, to ensure greater operational precision, specific limit values for each particular item are indicated on every page of the catalog, under each product CODE. These values were calculated considering not only the raw material but also the thicknesses, the TYPE of insert used, and field experience.

Material	Continuous use (8 hours) Max. °C	Continuous use (8 hours) under load HDT/A °C max.	Short use (60 ÷ 120 sec.) °C max	Continuous use (8 hours) °C min
Bakelite (termoind.)	200	-	200	-40
PA6 + GF	110	100	160	-10
PA6 puro	80	80	120	-10
PC	120	120	140	-40
ABS	85	100	100	-40
PS	75	75	90	-10
PELD-PEHD	75	40	85	-50
PP copolimero + GF	65	90	90	-50
Gomma NBR	120	-	130	-30
Gomma TPV	80	-		-30

6. MECHANICAL RESISTANCE

Simply consulting the technical data sheet of the raw material is not sufficient to guarantee the final performance of the product. In the injection molding process, critical variables intervene that can alter the mechanical characteristics of the finished piece, such as the positioning of the injection point, cooling stresses, and non-homogeneous distribution of fillers and additives.

To overcome these unknowns, Mon Plast has chosen to provide empirical performance data, measured directly "in the field" through specific tests that simulate real conditions of use. Our internal laboratory is equipped with advanced instrumentation (dynamometers, climatic chambers, fatigue testing machines, hardness testers, and dedicated fixing systems) to replicate various breaking stresses. The results are processed via dedicated software that returns precise data on applicable forces, tightening torques, twisting moments, and breaking loads.

Safety Coefficient To guarantee maximum reliability, a prudential safety coefficient of 1.3 is applied to the limit value measured by the tests. The breaking resistance data thus calculated are reported in the catalog pages next to the most relevant items; specific graphic symbols (arrows) clearly indicate the position and direction of the forces applied during the test.

Technical Documentation Complete test sheets are available at our sales office or downloadable from the reserved area of the website. Each report includes:

Test data;

- Description of the test with execution diagrams;
 - Specifications of the machinery used;
- (Upon request) Breaking graphs processed by the software.

Reference Environmental Conditions It is specified that all tests are performed in a controlled humidity environment and at a constant temperature of 23°C. Exposure to different environmental conditions (different temperatures or humidity levels) can lead to variations in resistance characteristics. For use in specific operating conditions, we invite you to consult our Technical Office in advance.

7. RESISTANCE TO CHEMICAL AGENTS

Resistance to chemical agents constitutes one of the distinctive characteristics of plastic materials. However, given the heterogeneous nature of polymers, each deriving from specific chemical formulations, the response to attacks by aggressive substances varies significantly from one material to another.

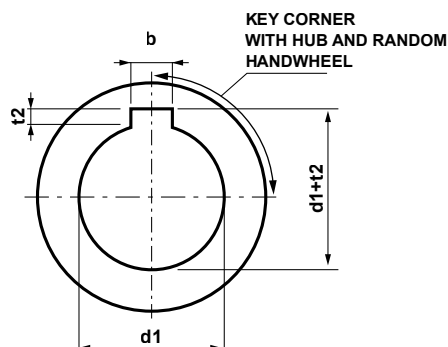
To support the customer in selecting the most suitable product for their conditions of use, we provide below a summary of the chemical compatibility relative to the main materials used in the production of our handles. For more specific needs or further details, detailed chemical compatibility tables are available upon request.

Substance	Substance	PA6 (Poliammide)	PS Polistirolo)	ABS	PP (Polipropilene)	PC (Policarbonato)	PE-LD	PE-HD
GENERAL	Water	A	A	A	A	A	A	A
	Inorganic salts	A	A	A	A	B	A	A
	Halogen	E	E	E	D	A	E	E
	Oxidizing compounds	E	C	D	E	C	E	E
ACIDS	Weak acids	E	A	A	A	A	A	A
	Strong acids	E	B	B	B	D	A	A
	Hydrofluoric acid	E	B	A	B	B	A	A
ALKALES	Weak alkalis	B	B	A	A	E	A	A
	Strong alkalis	A	A	A	A	E	A	A
SOLVENTS	Paraffinic hydrocarbons	B	D	C	B	B	D	
	Halogens-Alkalis	B	E	E	D	E	E	D
	Alcohols	B	A	B	A	B	A	A
	Ethers	A	D	E	C	E	D	C
	Foreign	A	E	E	B	C	B	A
	Ketones	A	E	E	B	C	B	A
	Aldehydes	B	D	D	A	E	B	
	Amines	A	A	A	A	E	A	
	Organic acids	B	B	A	B	C	A	A
	Aromatic compounds	B	D	E	D	E	B	B
OIL/CARB.	Fuels	A	D	A	B	B	B	B
	Mineral oils	A	C	A	A	A	B	B
	Fats	A	A	A	A	A	B	A
	Oil	A	A	A	A	A	B	A

LEGEND	A	B	C	D	E
	STABLE	FROM STABLE TO SLIGHTLY STABLE	LIMITED STABILITY	FROM SLIGHTLY STABLE TO UNSTABLE	UNSTABLE

8. TAB SEATS

Mon Plast offers broaching services for the creation of keyways on metal inserts with through-holes. The available standard dimensions are listed in the table below. For requests regarding non-standard dimensions or tolerances, please contact our Technical/Sales Department to verify feasibility.



Ø shaft d1 (mm.)	bxh (mm.)	t2 (mm.)
FROM 6 TO 8	2 H8 x 2	1,0 ^{+0,1/-0}
FROM 8 TO 10	3 H8 x 3	1,4 ^{+0,1/-0}
FROM 10 TO 12	4 H8 x 4	1,8 ^{+0,1/-0}
FROM 12 TO 17	5 H8 x 5	2,3 ^{+0,1/-0}
FROM 17 TO 22	6 H8 x 6	2,8 ^{+0,1/-0}
FROM 22 TO 30	8 H8 x 7	3,3 ^{+0,1/-0}
FROM 30 TO 38	10 H8 x 8	3,3 ^{+0,1/-0}

ATTENZIONE in fase di stampaggio il posizionamento angolare della linguetta rispetto al mozzo del volantino è casuale.

9. SQUARE OR HEXAGONAL HOLES

Mon Plast offers the possibility of creating square or hexagonal section holes on metal inserts with through holes.

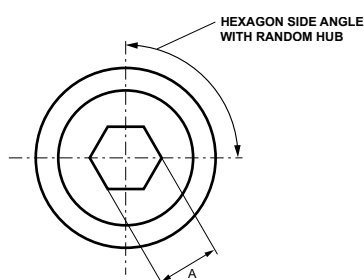
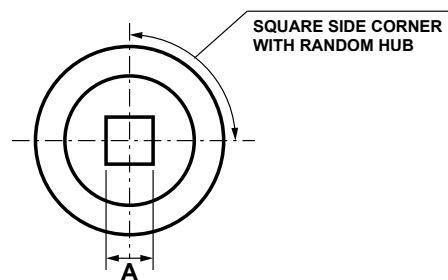
“Metal-Free” Solution (Molded holes) Should the final application allow it, it is possible to obtain the same geometries (square or hexagonal) directly in the plastic body through molding.

Resistance: The use of technopolymers reinforced with glass fiber guarantees the walls of the hole considerable structural and mechanical resistance.

Application advantages: The absence of metal inserts makes this solution ideal for the medical and food sectors and for use in outdoor environments, eliminating any risk of oxidation or corrosion at the root.

Note on tolerances: It is noted that, for holes obtained directly in the mold, dimensional tolerances are subject to the intrinsic constraints of the injection process and cannot guarantee the same precision as mechanical machining on metal.

The standard sizes available are reported in the following table:

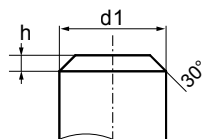


QUADRO (su insert) AxA (mm.)	QUADRO (su plastica stampata) AxA (mm.)	ESAGONO (su insert) A (mm.)	ESAGONO (su plastica stampata) A (mm.)
5x5 H7	5 ^(+0,2 / +0,1)	5 H7	5 ^(+0,2 / +0,1)
6x6 H7	6 ^(+0,2 / +0,1)	6 H7	6 ^(+0,2 / +0,1)
8x8 H7	8 ^(+0,2 / +0,1)	8 H7	8 ^(+0,2 / +0,1)
10x10 H7	10 ^(+0,2 / +0,1)	10 H7	10 ^(+0,2 / +0,1)
12x12 H7	12 ^(+0,2 / +0,1)	11 H7	12 ^(+0,2 / +0,1)
14x14 H7	14 ^(+0,2 / +0,1)	12 H7	14 ^(+0,2 / +0,1)
17x17 H7	16 ^(+0,2 / +0,1)	14 H7	16 ^(+0,2 / +0,1)
	17 ^(+0,2 / +0,1)	16 H7	17 ^(+0,2 / +0,1)

10. EXECUTION OF THREADED STUD TERMINALS

The threaded studs integrated into our handles can vary in the TYPE of execution of the free end. The two standard configurations used in production are identified as Type A and Type Z.

Due to needs related to production flexibility, the catalog sheets do not specify the TYPE of terminal provided by default. Therefore, if the application specifically requires the presence of a lead-in chamfer at the end of the thread, it is essential to make an explicit request during the ordering phase. Special Executions Upon request and for minimum quantities, Mon Plast is able to provide studs with terminals different from the standard. To facilitate selection, we report below the most common technical configurations. In case of an order for special executions, please indicate the reference letter of the chosen end and the relative dimensional dimensions necessary for its realization.



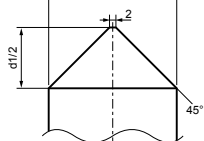
TYPE A - NORMAL CHAMFER

The chamfer performed is standard at 30°.

The chamfers follow the following table:

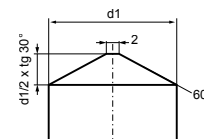
With a minimum of 250 pieces, it is possible to perform chamfers to drawing.

Filettatura d1	Smusso	Filettatura d1	Smusso	Filettatura d1	Smusso
M05	0,8x30°	M10	1,1x30°	M16	1,5x30°
M06	0,9x30°	M12	1,3x30°	M18	1,8x30°
M08	0,x30° *	M14	1,5x30°	M20	1,8x30°



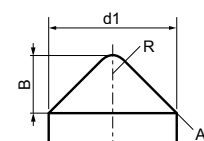
TYPE B - 45° CONICAL POINT

The 47° conical point terminal starts from the thread diameter and ends in a flat surface with Ø 2mm. The length of the conical part is slightly less than half the diameter of the pin.



TYPE C - 60° CONICAL POINT

The 60° conical point terminal starts from the thread diameter and ends in a flat surface with Ø 2mm. The length of the conical point is equal to half the thread diameter multiplied by the Tangent of 30° ($d1/2 \times \tan 30^\circ$).



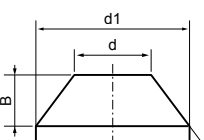
TYPE D - RADIUSED CONICAL POINT

The radiused conical point terminal is like a normal conical point.

With the difference that instead of ending with a vertex, it ends with a radius.

When ordering, please specify the following measurements:

R = Radius / A = Angle of Conicity / B = Distance of the Radius from the start of the conicity.



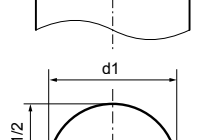
TYPE E - TRUNCATED CONICAL POINT

The truncated conical point terminal is like a normal conical point.

With the difference that instead of ending with a vertex, it ends with the vertex truncated.

When ordering, please specify the following measurements:

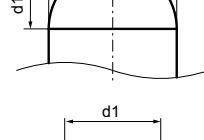
A = Angle of Conicity / d = Base Diameter / B = Distance of the Base from the conicity.



TYPE F - SPHERICAL POINT

The spherical point terminal ends with a sphere of diameter equal to the thread diameter.

The length of the sphere is half compared to the diameter.



TYPE G - PLASTIC FIXING TIP

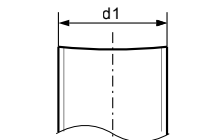
The plastic tip is a small plastic cylinder, press-fitted into a hole made in the end of the stud.

The tip is used in cases where it is necessary to protect the part to be tightened from scratching.

The stud is supplied with the tip already mounted.

The diameters and protrusion of the tip are as per the following table:

Threads d1	d x h	Threads d1	d x h	Threads d1	d x h
M05	3 x 2	M10	6 x 3	M16	8 x 4
M06	3 x 2	M12	6 x 3	M18	10 x 5
M08	5 x 3	M14	8 x 4	M20	10 x 5



TYPE Z - END WITH VI EDGE

This type of terminal is present in all studs obtained by molding.

It does not have chamfers and the surface of the end is not regular.

11. GENERAL TOLERANCES

11.1 Threaded Studs

Metric thread diameter (standard and fine pitch): 6g ISO UNI 5545-65. Protrusion of the stud from the plastic hub: ± 1 mm.

11.2 Smooth Studs

Outer diameter: h9 – h11 (standard tolerance for drawn bars UNI 5105). Protrusion of the stud from the plastic hub: ± 1 mm.

11.3 Partially Threaded Smooth Studs

For studs with mixed machining, the following tolerances apply:

Outer diameter: h9 – h11 (standard tolerance for drawn bars UNI 5105). Metric thread diameter (standard and fine pitch): 6g ISO UNI 5545-65.

Protrusion of the stud from the plastic hub: ± 1 mm.

Length of the threaded part: ± 0.2 mm.

11.4 Blind Threaded Holes

Metric thread diameter (standard and fine pitch): 6H ISO UNI 5545-65. Useful depth: Since this measurement is influenced by the TYPE of insert, the catalog data were measured using a plug gauge with 6g tolerance and a 1 mm x 45° lead-in chamfer. The depth tolerance is -0 / +1 mm.

11.5 Through Threaded Holes

Metric thread diameter (standard and fine pitch): 6H ISO UNI 5545-65. Thread length: ± 0.2 mm.

11.6 Through Smooth Holes

Tolerances for through smooth holes vary based on the insert finish:

Zinc-plated Insert: Hole diameter H10 – H11 ISO UNI 5545-65.

Burnished Insert: Hole diameter H7 ISO UNI 5545-65.

Preparation holes (diameter 5/8 mm for subsequent machining): H10.

Smooth hole depth: ± 0.5 mm.

11.7 Threaded holes obtained by molding

(Plastic)

For threads obtained directly in the plastic material, it is not possible to define a unique tolerance due to process variables (shrinkage, density, injection pressure). Normally, the thread is made with a slight oversize to facilitate assembly without compromising the seal. To ensure secure and long-lasting fixing over time, the use of suitable thread-lockers or sealants is recommended.

11.8 Smooth holes obtained by molding

(Press-fit Assembly)

To ensure optimal assembly on shafts with different tolerances, Mon Plast creates a series of coaxial compensating lines inside the smooth hole, having a diameter smaller than the nominal hole. During press-fit assembly, these ribs deform, adapting to the dimensional differences of the shaft and ensuring an excellent seal.

Hole depth tolerance: ± 1 mm.

11.9 General tolerances of plastic products

Unless otherwise indicated, the plastic items in the catalog are not subject to stringent prescriptive tolerances. Generally, dimensional variations (length or diameter) in the order of ± 0.5 mm are to be considered irrelevant to the functionality of the piece.

12. REWORKING OF PRODUCTS

Mon Plast products are suitable for subsequent mechanical machining, thanks to the use of high-quality reinforced technopolymers and inserts in machinable metals. However, to guarantee the structural integrity and functionality of the component, it is fundamental to observe some technical precautions during modification operations.

12.1 General Machining Notes

- **Cutting parameters:** In chip removal operations on thermoplastic materials, it is imperative to maintain low cutting speeds and reduced feeds. This precaution prevents local overheating of the material which could reach the softening temperature, causing degradation of mechanical characteristics, premature wear of the cutting edges, and the formation of burrs difficult to remove.
- **Tooling:** For continuous or series machining, the use of carbide tools is recommended. High-speed steel (HSS) tools tend to have a limited life on these materials. It is essential to keep the cutting edge always perfectly sharp.
- **Cooling:** It is necessary to ensure abundant lubrication-cooling during machining, using simple emulsified water. This favors the disposal of heat generated by friction.

12.2 Enlarging the Axial Pilot Hole

The operation of enlarging the hole on a metal insert can be performed following these directives:

- **Centering:** It is recommended to start reaming from the side of the existing pilot hole to ensure better centering.
- **Heat management:** If the difference between the pilot hole diameter and the final one is significant, it is necessary to proceed in stages, making multiple passes with increasing diameters. Heavy chip removal in a single pass would generate excessive heat on the metal insert; this heat, transmitting to the surrounding plastic, could cause it to soften and compromise the physical grip between the insert and the plastic body (with consequent risk of slippage or rotation of the insert itself).
- **Clamping (Small handwheels):** For small diameter handwheels, fixing on the chuck by clamping the piece by the hub is recommended.

- **Clamping (Families C and D):** For control handwheels belonging to families C and D, it is preferable to clamp the piece on the chuck by the rim. This way, better centering between the hole and the geometry of the handwheel is obtained. Maximum care in centering the piece is still recommended.
- **Cooling:** Also in this phase, the abundant use of emulsified water is crucial for thermal dissipation.
- **Through holes:** In the transformation of a blind hole into a through hole, no problems of plastic chipping at the drill exit point are encountered.

12.3 Execution of Radial Holes (Smooth or Threaded)

- **Braking effect:** It is recalled that a threaded hole made directly on the plastic tends naturally to tighten (elastic shrinkage). This phenomenon is positive as the plastic exerts a slight braking force on the set screw, preventing accidental unscrewing.
- **Tapping:** To avoid premature wear of the taps during threading, it is recommended to perform the pre-hole with a slightly larger diameter than the standard for metals.

13. SPECIAL EXECUTIONS

Constant technological evolution requires the search for specific solutions. The Mon Plast Technical Office is available for the study and design of custom solutions.



COLORS



ORANGE
RAL 2004



BLUE
RAL 5015



YELLOW
RAL 1021



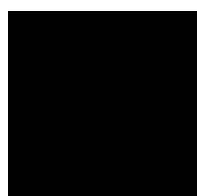
RED
RAL 3000



GREEN
RAL 6024



GREY
RAL 7035



BLACK
RAL 9011





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