

SPECIAL CATALOGUE



SALES
WORLDWIDE

92 %
FROM IN-HOUSE
PRODUCTION

**Ingenious Locking Technology
for the Railway Industry**

Icons

The icons on the catalogue pages show the special properties of the items presented there.



Inside the sealing



Outside the sealing



Concealed hinge



Prominent hinge



Lift-off version hinge



Hinge limited lift-off version



Hinge for single cabinets



Hinge for in-line cabinets with single door



Hinge for in-line cabinets with double door



Door RH version



Door LH version



Door RH or LH version



Protection class e.g. IP 65



PUR sealing foam



Compression specification of lock



Article grounded or grounding possible



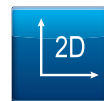
ELM Electronic Locking & Monitoring System application



Resistance class 2 tested acc. to DIN EN 1630



2D nut usable



2D adjustable product



3D adjustable product



Assembly without tool



clip-in product



Product with graffiti resistant paint



meets hygiene requirements acc. to DIN EN 1672-2



meets hygiene requirements acc. to DIN EN ISO 14159



Shock and vibration test according to DIN EN 61373



Plastic flame-resistant according to classification UL94



Stainless steel
AISI 303 resp. 1.4305
AISI 304 resp. 1.4301
AISI 316 resp. 1.4401
AISI 316 Ti resp. 1.4571

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2 Locking Systems

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3 Hinges

B3-110	Interior hinges
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4 Sealing Profiles and Edge Protection

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5 Accessories

B5-210	Emergency hammer
B5-310	Tail hook / Cover stay
B5-410	Dust cap for high-speed trains

Article number index

A person in a dark suit is pointing their right index finger at a world map on a wall. The map is light-colored with blue lines indicating borders and some blue dots. The person is wearing a black watch on their left wrist. The background is slightly blurred, showing a wooden door frame on the right and some framed pictures on the wall.

About EMKA

The EMKA GROUP is world market leader for locks, latches, hinges and seals used in switch and control cabinets.

For more than 40 years, the company has been active across all sectors in the fields of industry (switch and control cabinets, HVACR systems, mechanical engineering) and transport (railway and commercial vehicles, caravans, etc.) with conventional and electronic locking solutions.

The overall range comprises more than 30,000 catalogue and special articles, which are developed, manufactured, refined and assembled at eleven production sites in Germany, France, Great Britain, Spain, Bosnia-Herzegovina, Serbia, China, India and Indonesia.

In one of the two new plants in Bosnia, the company produces around 900 moulds for injection moulding and die casting every year - both for own production and for external customers.

With 2,100 employees, EMKA serves over 36,000 customers in 60 countries worldwide. In 2022, the company achieved turnover of over 350 million euros.

EMKA - Ingenious Locking Technology.



WirtschaftsWoche

**WELT
MARKT
FÜHRER**

Champion

2023

EMKA Beschlagteile

Verschlüsse, Scharniere und
Dichtungen für Schalt- und
Steuerungsschränke für Elektronik
und Elektrotechnik

ADWI
Akademie Deutscher Wirtschaftsführer

Henri B. Meier
Unternehmensschule
Universität St. Gallen



Worldwide first choice

2,100 employees

Own production at 11 international locations

Represented in 60 countries worldwide

More than 30,000 catalogue and special products

More than 36,000 customers worldwide



Henriville, France



Birmingham, UK



Arnedo, Spain



Goražde (Plant 1), Bosnia-Herzegovina



Goražde (Plant 2), Bosnia-Herzegovina



Company headquarters Velbert, Germany



Wuppertal, Germany



Tianjin, China



Mionica, Serbia



Bhilai, India



Bandung, Indonesia



- Company headquarters
- Production site
- Subsidiary
- Agency



Locking systems for the railway industry

Particularly in trains, special requirements apply to safety - even in the smallest detail. For example, the regulations on fire protection according to DIN EN 45545 play a major role for the railway industry.

In this area, EMKA provides its railway customers with complete systems of locks, latches, hinges and accessories that meet this standard. In addition, there are seals for interior and exterior use, which are integrated into a well thought-out locking system program for the railway industry.

The wide product range of EMKA comprises outdoor as well as indoor applications for the railway industry. Well-known manufacturers such as Alstom, Bombadier, Siemens, Stadler, Voith or Vossloh have been good customers for many years.

Modular program

The product program by EMKA has a consistently modular structure.

No matter whether made of stainless steel, zinc, aluminium, plastic or rubber, the products meet national as well as international standards, e.g. resistance class RC2 and are available up to protection class IP 69K.



Locks and Latches



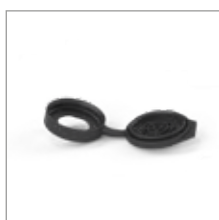
Locking Systems



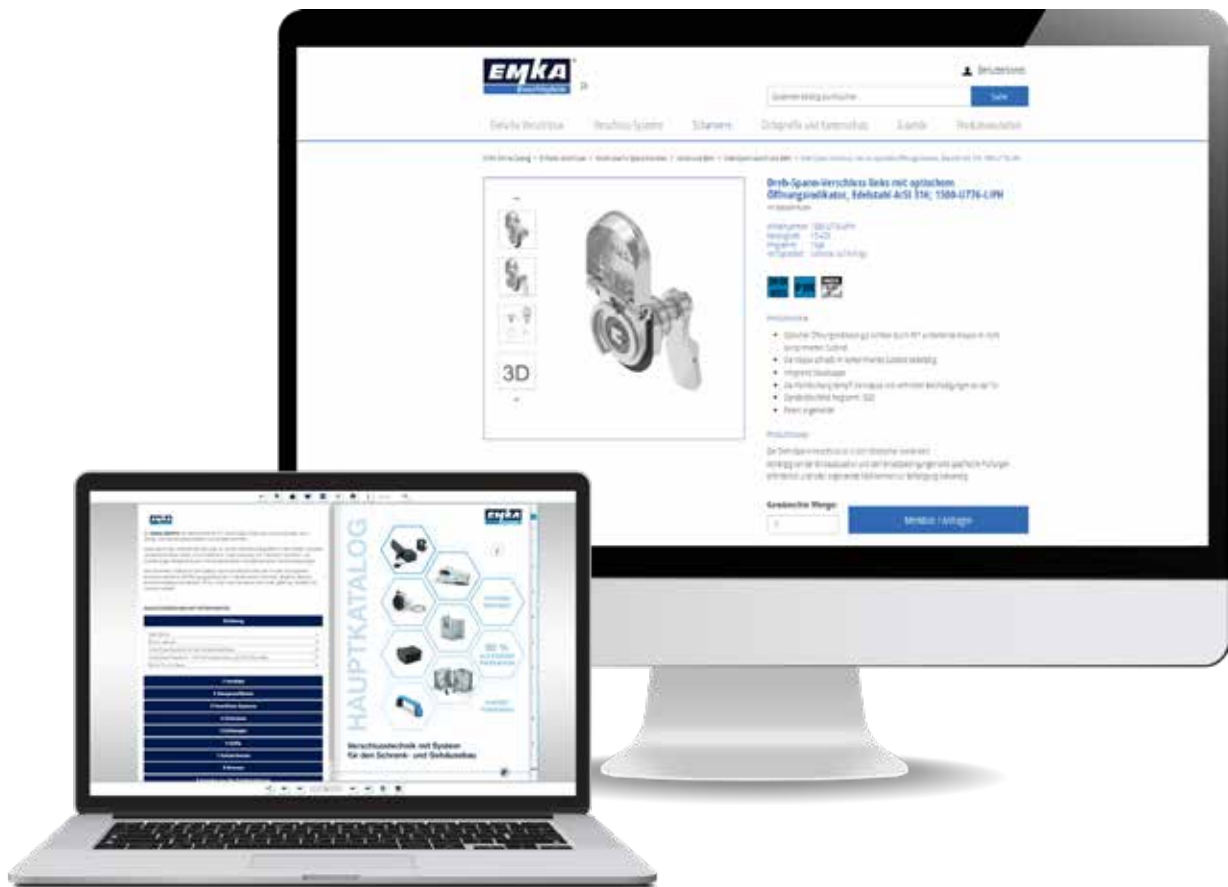
Hinges



Sealing Profiles and Edge Protection



Accessories



Everything at a glance

This special catalogue contains a selection of products that have been specially developed for the railway industry.

You will find many more products for the railway industry and other industries in the [interactive EMKA main catalogue](#) as well as in the [online product database](#).

There you also have the possibility to download CAD data in the international exchange formats STEP and IGES as well as detailed product data sheets.

[View interactive EMKA main catalogue](#)

[View online product database](#)



Close communication with the customer from the idea to the product

In the EMKA Technology Centre the innovative products of tomorrow are created.

30 designers and design engineers convert ideas into finished products in close collaboration with the customer. Quite a few of these products are incorporated into the EMKA main catalogue which is thus strongly focused on the current market and customer needs.

To this day round 20,000 additional special parts have been created in this way that were tailor-made for special customer requirements by our specialists, intensely tested in our internal test lab and finally produced by EMKA.

State-of-the-art CAD systems and development methods such as finite elements method, rapid prototyping and 3D print are only some of the processes that are used in this context. A powerful project management software completes the range of services.

You have got an idea?

Together, let's make a product out of it!

EMKA Mould + Series

EMKA is one of the three largest mould makers in Europe.

One reason for this is that all of EMKA's 30,000 catalogue and special products are tool-related. In its own production sites, EMKA produces these products from the materials polyamide, zinc, steel, stainless steel and aluminum. EMKA customers can take advantage of this manufacturing excellence that has been developed over decades. With the business model "Mould + Series", EMKA offers a unique service package:

Based on the customer's drawing, the mould is designed. The production of the initial sample with this mould takes place directly at EMKA on site on factory-owned machines from series production. In this way, the mould making and initial sample production stages are directly coupled with each other. Time and quality losses due to transport and coordination loops are eliminated. After tool and initial sample approval, the customer receives the complete test documentation as well as all relevant production parameters. If the customer does not want to manufacture his product himself, but wants to outsource it, EMKA can also take over the series production - if necessary with assembly work and worldwide logistics.

"Mould + Series" is mould making and initial sample production from a single source - with optional series production.

In short: Production with a system.



Tool and mould making at EMKA

with around 100 state-of-the-art machines

Initial sample production directly at EMKA

at the same location as tool production on state-of-the-art machines for zinc, plastic and aluminum production

Series production at EMKA

Plastic injection moulding, aluminium and zinc die casting, stamping, bending and forming technology as well as finishing

Warehouse and logistics

24 EMKA subsidiaries worldwide with buffer warehouses guarantee on-time delivery of your products





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Fire protection info

We supply materials certified according to the current fire protection standards for railway vehicles, e.g. according to DIN EN 45545-2; NF F 16-101/ -102; DIN 5510-2; UNI CEI 11170. Whether the achieved categories fit to the respective requirements or vehicle classes has to be verified for the individual case.
In general, higher fire protection classes can be achieved with silicone profiles than with EPDM.

Note

The new European fire protection standard for railroad applications, DIN EN 45545-2, was published in August 2013. The DOW (date of withdrawal) was extended from 6 to 36 months so that the national standards are to be withdrawn by March 2016.

DIN EN 45545-2 - Railway applications - Fire protection in railway vehicles

Part 2: Requirements for the fire behavior of materials and components

This part specifies the test methods for test conditions and requirements for the fire behavior of each hazard level.

Hazard Level

Operation class	Building class			
	N: Standard vehicles	A Vehicles for automatic driving operation that do not have trained staff for emergencies on board	D: Double-decker trains	S: Sleepers and couchettes (bilevel or unilevel)
1	HL1	HL1	HL1	HL1
2	HL2	HL2	HL2	HL2
3	HL3	HL3	HL3	HL3
4	HL4	HL4	HL4	HL4

Operation classes:

Operation class 1: Surface vehicles

Operation class 2: Tunnel max. 5 km

Operation class 3: Tunnel > 5 km

Operation class 4: Tunnel, evacuation from the side not possible

Seals

The seals are included in DIN EN 45545 and must meet the requirement sets R22 for indoor use or R23 for outdoor use depending on the hazard level. In order to define the hazard level, the operating class and design class must be known, e.g. 2 (tunnel max. 5 km) D (double-deck vehicles)!

Sealing situations



Lock inside the sealing

The lock is inside the cabinet frame and inside the sealing.

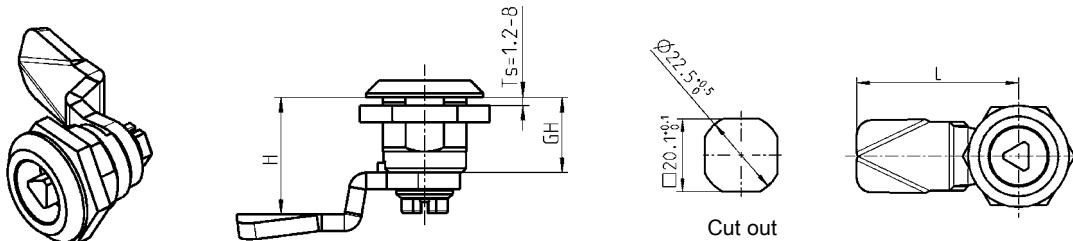


Lock outside the sealing

The lock is outside the cabinet frame and outside the sealing.

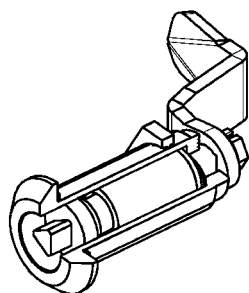
Quarter turns

PROGRAM 1000

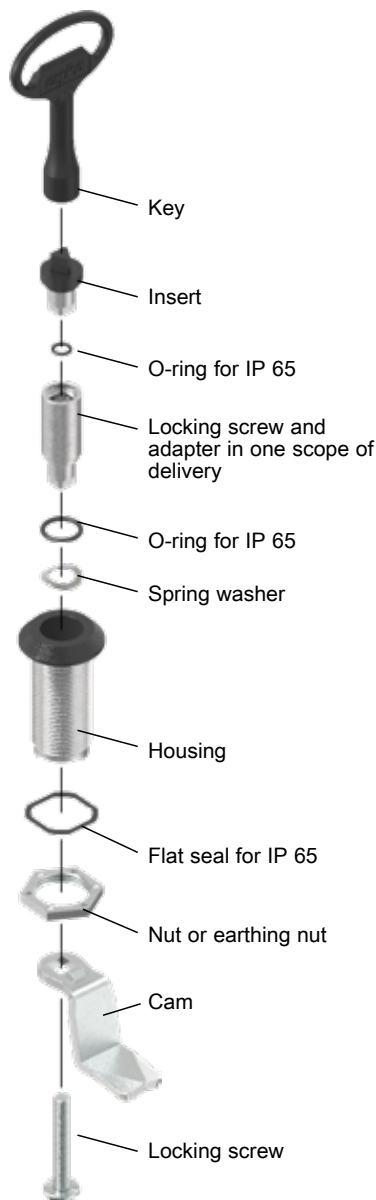
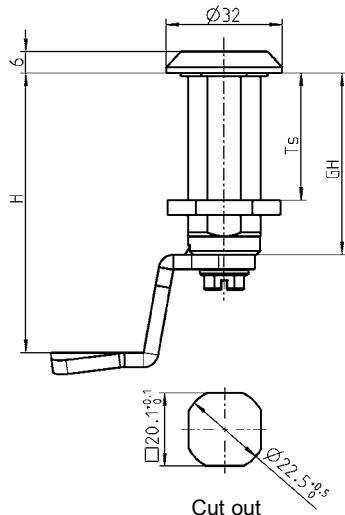


Housing material of choice, nut or earthing nut m.s. zinc-plated or nut stainless steel								
Head diameter								
GH = 18 mm	4		4		6		4	
Head height	Nut	Earthing nut	Nut	Earthing nut	Nut	Earthing nut	Nut	Earthing nut
Zinc die chrome-plated	1000-U45	1000-U56	1000-U47	1000-U55	1000-U7	1000-U54	1000-U330	1000-U332
Zinc die chrome-plated (with foamed seal)	1000-U45-G	1000-U56-G	1000-U47-G	1000-U55-G	1000-U7-G	1000-U54-G	–	–
Zinc die black powder-coated	1000-U223	1000-U224	1000-U221	1000-U222	1000-U219	1000-U220	1000-U331	1000-U333
Zinc die black powder-coated (with foamed seal)	1000-U223-G	1000-U224-G	1000-U221-G	1000-U222-G	1000-U219-G	1000-U220-G	–	–
Polyamide GF V0 black	1000-U155	–	–	–	1000-U46	–	–	–
Polyamide GF V0 black (with foamed seal)	1000-U155-G	–	–	–	on request	–	–	–
Stainless steel AISI 303 (with foamed seal)	1000-U134	–	–	–	–	–	–	–
Stainless steel AISI 316 (with foamed seal)	1000-U530	–	–	–	–	–	–	–
Insert zinc die, polyamide or stainless steel; fixing material m.s. zinc-plated or stainless steel; with seal (only for stainless steel version)				Zinc die chrome-plated	Zinc die black powder-coated	Polyamide 66 GF 50 black	Stainless steel AISI 303	Stainless steel AISI 316
Insert				Square 6	1000-U17	1000-U322	–	1000-U351
				Square 7	1000-U1	1000-U323	1000-U184-N	1000-U135
				Square 8	1000-U2	1000-U324	1000-U185-N	1000-U136
				Square 8 slotted	1000-U18	–	–	1000-U352
				Triangular 6.5 CNOMO	1000-U197	–	–	–
Star handle				Triangular 7	1000-U3	1000-U325	–	1000-U334
				Triangular 8	1000-U4	1000-U326	1000-U186-N	1000-U335
				Triangular 9	1000-U194	–	–	–
				Triangular 10	1000-U249	–	–	–
				Double bit 3	1000-U5	1000-U327	1000-U187-N	1000-U183
Wing knob ①				Double bit 5	1000-U6	1000-U328	1000-U188-N	1000-U137
				Hexagon female SW 10	1000-U96	–	–	–
				Square female 6	1000-U168	–	–	–
				Square female 7	1000-U182	–	–	–
				Square female 8	1000-U169	–	–	–
Wing knob ②				Daimler Benz	1000-U20	–	–	–
				Slot 1.2 x 3	1000-U195	–	–	–
				Slot 2 x 4	1000-U142	1000-U329	1000-U196-N	1000-U630
				Slot 2 x 4 coinproof	1000-U738	1000-U739	–	–
				Crown type	1000-U336	–	–	–
				Eastern Europe Ø 13 half-round	1000-U509	–	–	1000-U729
				Hexagon female 8 with pin	1000-U757	–	–	1000-U757-01
						Zinc die black powder-coated	Polyamide GF / Zinc die black	Polyamide GF black / AISI 303
				Star handle	–	–	1000-U13	1000-U138
				Wing knob ①	–	–	1000-U78	1000-U510
				Wing knob ②	–	1000-U910	–	–

Assembly instruction



GH	Ts
30 mm	1.5 mm to 20 mm
36 mm	1.5 mm to 26 mm
40 mm	1.5 mm to 30 mm
50 mm	1.5 mm to 40 mm
60 mm	1.5 mm to 50 mm



IP 65 achieved by:

** Flat seal	1000-23
** O-Ring	1000-24

IP 66 achieved by:

Seal set	1000-U769
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IP 69K achieved by:

* Seal set	1000-U841
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Assembly on request

without O-ring	1000-990
with O-ring	1000-991

Housing material of choice; nut or earthing nut m.s. zinc-plated or nut stainless steel
Adapter zinc die or AISI 303; screw m.s. zinc-plated or stainless steel

GH in mm	Zinc die chrome-plated		Zinc die black powder-coated		Polyamide black	AISI 316
	Nut	Earthing nut	Nut	Earthing nut	Nut	Nut
30	1000-U51	1000-U65	1000-U225	1000-U226	1000-U876	1000-U878
– Adapter for GH 30 mm			1000-U164			1000-U879
36	1000-U246	1000-U248	1000-U317	1000-U318	–	–
– Adapter for GH 35 mm			1000-U198			–
40	1000-U66	1000-U67	1000-U227	1000-U228	1000-U737	–
– Adapter for GH 40 mm			1000-U165			–
50	1000-U68	1000-U69	1000-U229	1000-U230	1000-U736	–
– Adapter for GH 50 mm			1000-U166			–
60	1000-U504	1000-U505	1000-U506	1000-U507	–	–
– Adapter for GH 60 mm			1000-U535			–

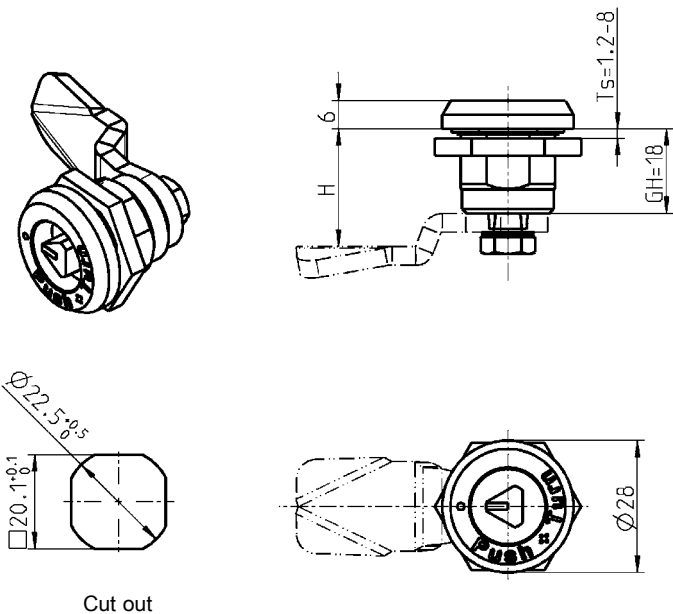
** included in case of
stainless st. version

* Seal set only available
completely assembled with
housing, insert and cam

Further parts see page

– Cam with catch	B1-430
– Dust cap	B5-410
– Key	B1-470

Safety quarter turn with marking;
Safety quarter turn railway version in conformity with RIC
PROGRAM 1000



Cut out



The safety quarter turn is of a vibration-proof design. Depending on the installation location and operational conditions, specific checks are necessary and/or supplementary measures of fastening required.

Safety quarter turn with marking

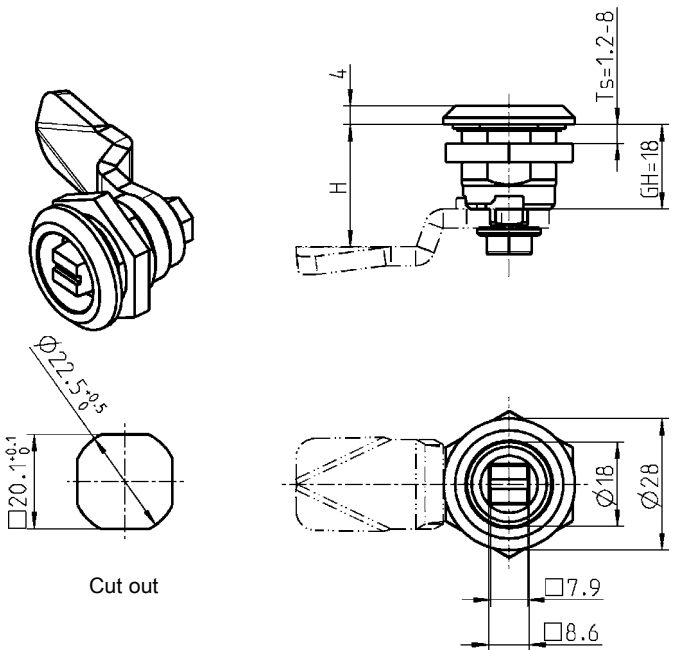
Housing and insert AISI 316;
nut AISI 303; screw AISI 308;
with spring and seal;
inscription on the housing is pad printed

Triangular 8

1000-SU51

Further parts see page

- Cam with catch B1-430
- Dust cap B5-410
- Key B1-470



Cut out



The safety quarter turn is of a vibration-proof design. Depending on the installation location and operational conditions, specific checks are necessary and/or supplementary measures of fastening required.

Safety quarter turn railway version RIC compliant

Housing and insert AISI 304;
nut AISI 303; screw AISI 308;
with spring and seal

Insert railway

1000-SU821

Further parts see page

- Cam with catch B1-430
- Dust cap B5-410
- Key B1-470

Safety quarter turn without mask

PROGRAM 1000

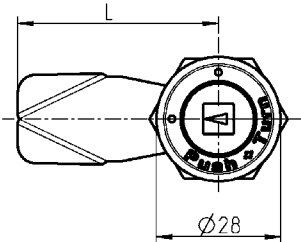
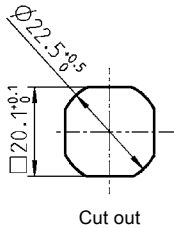
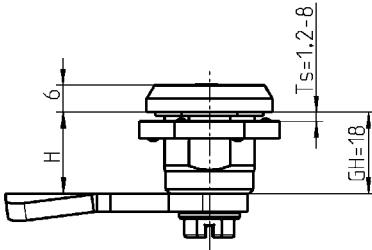
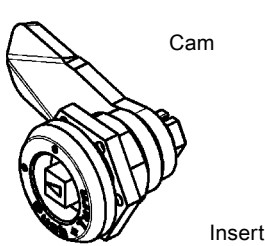
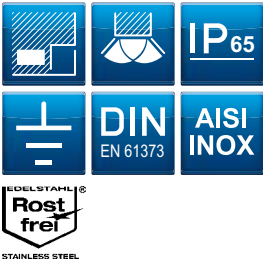


Tamper and vibration proof

The safety quarter turn is of a vibration-proof design. Depending on the installation location and operational conditions, specific checks are necessary and/or supplementary measures of fastening required.



for stainless steel version



Press down the insert and turn!

Note:
Only cams without catch can be used.

Note:
The H-dimension will be reduced by 2 mm if the opening handle is installed

Insert railway in conformity with RIC.

On request:
– Further inserts

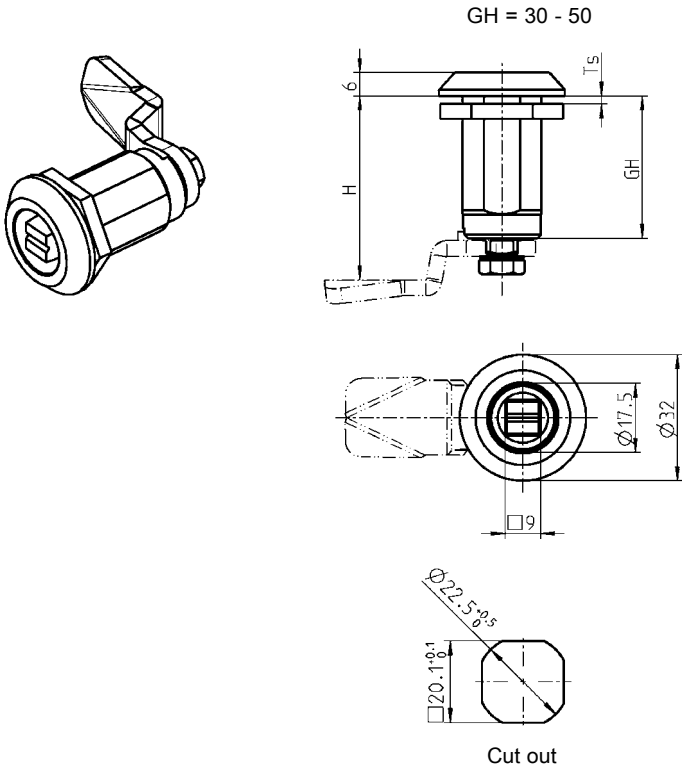
Further parts see page
– Cam with catch B1-430
– Dust cap B5-410
– Key B1-470

Safety quarter turn without mask Housing and insert material of choice; earthing nut and screw m.s. zinc-plated or nut and screw stainless steel; with spring and seal		
Further insert variants on request	① Zinc die chrome-plated housing labeling is immersed	② AISI 316 housing labeling is pad printed
Square 6	on request	1000-U817-01PH
Square 7	1000-U817-02IA	on request
Square 8	1000-U817-03IA	1000-U817-03PH
Triangular 7	1000-U817-04IA	on request
Triangular 8	1000-U817-05IA	1000-U817-05PH
Triangular 10	on request	1000-U817-07PH
Double bit 3	1000-U817-08IA	on request
Hexagon female SW 8	on request	1000-U817-24PH
Slot 1.2 x 3	1000-U817-16IA	on request
Slot 2 x 4	1000-U817-17IA	on request
Insert railway	1000-U817-23IA	1000-U817-23PH

Quarter turn railway version RIC compliant
PROGRAM 1000



for stainless steel version

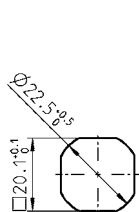
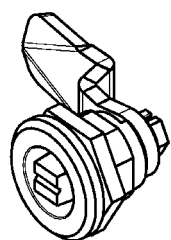


Quarter turn railway version RIC compliant Housing and insert railway material by choice; screw and earth nut m.s. zinc-plated resp. AISI 303			
GH = 30; Ts = 1.5 - 20	Housing zinc die chrome plated	Housing zinc die black powder coated	Housing AISI 304
Insert railway m.s. zinc-plated	on request	on request	-
Insert railway AISI 303	-	-	1000-SU543-PF
GH = 36; Ts = 1.5 - 26; with nut			
Insert railway m.s. zinc-plated	1000-SU129	on request	-
Insert railway AISI 303	-	-	1000-SU543-01PF
GH = 40; Ts = 1.5 - 30; with nut			
Insert railway m.s. zinc-plated	on request	on request	-
Insert railway AISI 303	-	-	on request
GH = 50; Ts = 1.5 - 40; with nut			
Insert railway m.s. zinc-plated	on request	on request	-
Insert railway AISI 303	-	-	on request
IP 65 achieved by			
Flat seal			1000-23
O-ring			1000-24
IP 66 achieved by:			
Seal set			1000-U769
Assembly on request			
without O-ring			1000-990
with O-ring			1000-991

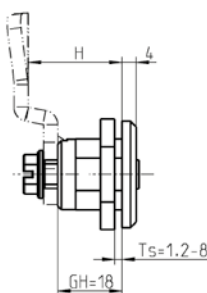
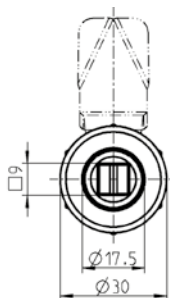
Further parts see page
– Cam with catch B1-430
– Dust cap B5-410
– Key B1-470

Quarter turn railway version RIC compliant; Quarter turn railway

PROGRAM 1000



Cut out



for stainless steel version



Insert railway in conformity with RIC.



Quarter turn railway version RIC compliant

Housing and insert railway material by choice;
screw, nut and earthing nut m.s. zinc-plated resp. AISI 303

GH = 18; Ts = 1.5 - 8; with nut	Housing zinc die chrome plated	Housing zinc die black powder coated	Housing AISI 304
Insert railway m.s. zinc-plated	1000-U431	1000-U432	-
Insert railway zinc die chrome-plated	1000-U431-01	on request	-
Insert railway AISI 304	-	-	1000-U431-PF

GH = 18; Ts = 1.5 - 8 with earthing nut m.s. zinc-plated

Insert railway m.s. zinc-plated	1000-U499	1000-U500	-
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IP 65 achieved by

Flat seal	1000-23
O-ring	1000-24

IP 66 achieved by:

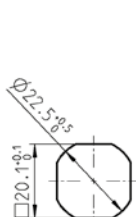
Seal set	1000-U769
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Assembly on request

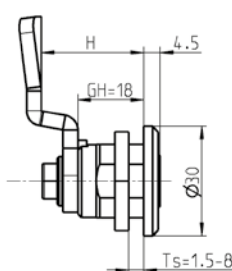
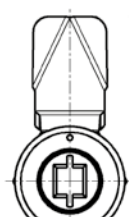
without O-ring	1000-990
with O-ring	1000-991

Further parts see page

- Cam with catch B1-430
- Dust cap B5-410
- Key B1-470



Cut out



Quarter turn railway

Housing AISI 304 with foamed seal;
insert railway with outer rack AISI 316;
screw and nut AISI 303

Order individually per quarter turn	Housing with PUR seal	1000-S1806-GPF
	Insert railway with outer rack	1000-S1719
	Screw	1000-277-01PI
	Nut	1000-02-PF

IP 65 achieved by

O-ring	1000-24
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IP 66 achieved by:

Seal set	1000-U769
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Assembly on request

without O-ring	1000-990
with O-ring	1000-991

Further parts see page

- Cam with catch B1-430
- Dust cap B5-410
- Key B1-470



Quarter turn railway version RIC compliant
for outside the sealing

PROGRAM 1000

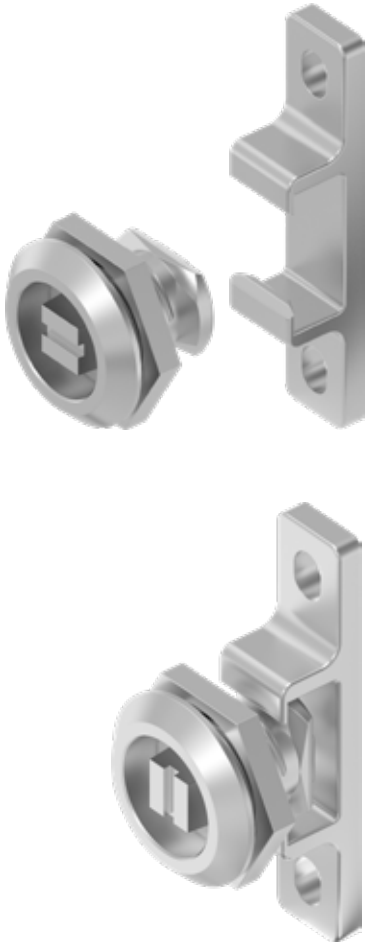
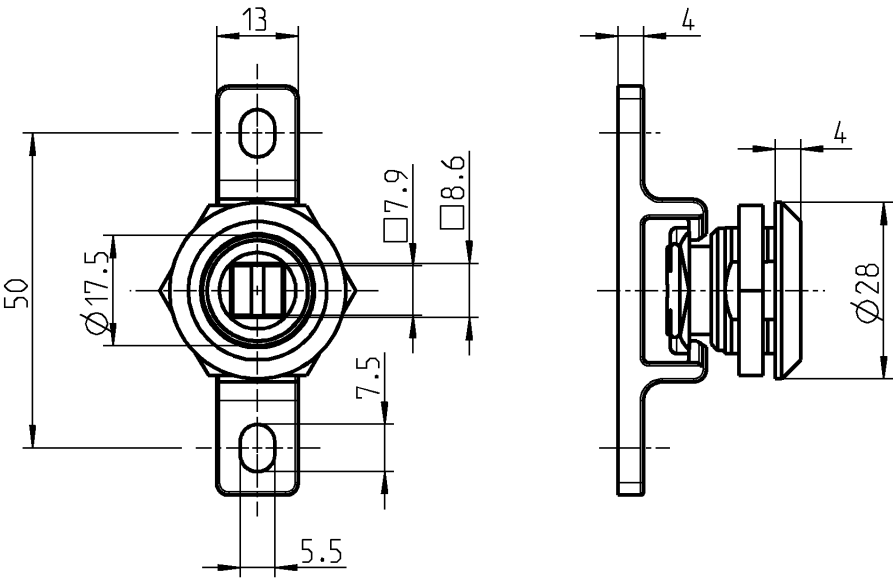
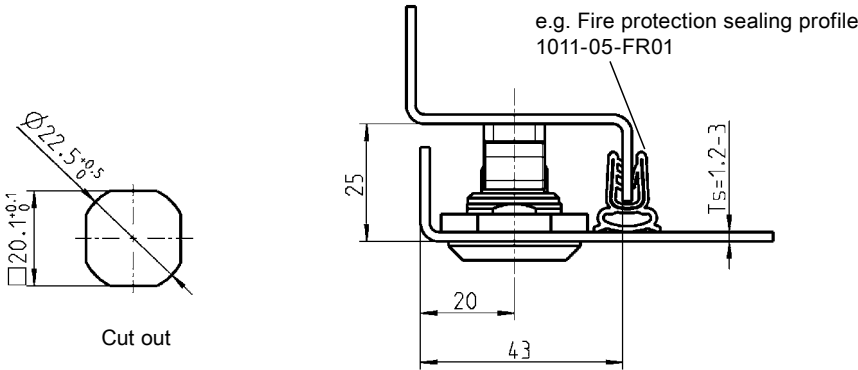


Illustration with quarter turn 1000-SU560



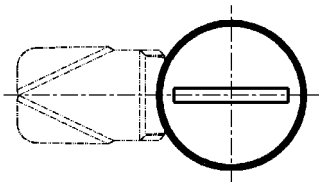
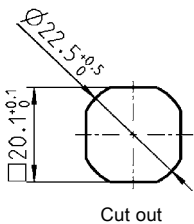
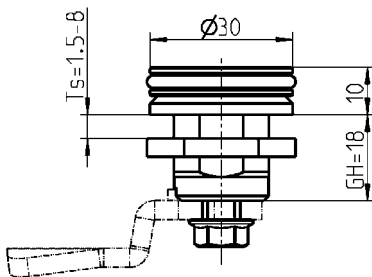
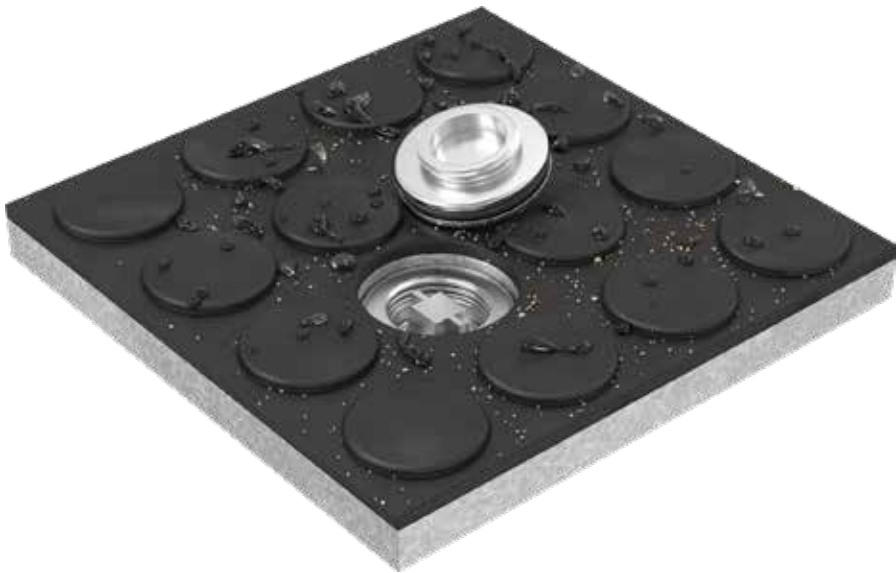
Note:
Catch and cam can also be combined with other types of quarter turns or compression latches.

Quarter turn railway version in RIC compliant for outside the sealing		
Housing and insert railway AISI 303; catch and cam material by choice; nut AISI 316Ti; screw AISI 308; with seal		
Insert railway		1000-SU560
Cam	Zinc die	AISI 316
	1210-08-KA	1210-08-PH
Catch	Zinc die black powder-coated	AISI 316
	1210-09-AA	1210-09-PH

Insert railway in conformity with RIC.

Further parts see page – Key

Quarter turn with cover for latches installed in the floor
PROGRAM 1000



Application
For covering latches installed in the floor.
The cover prevents dirt and moisture from entering the insert area.

On request:
– Further inserts

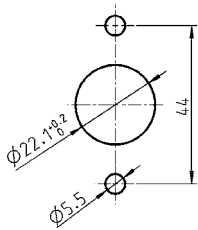
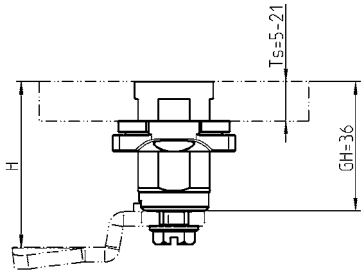
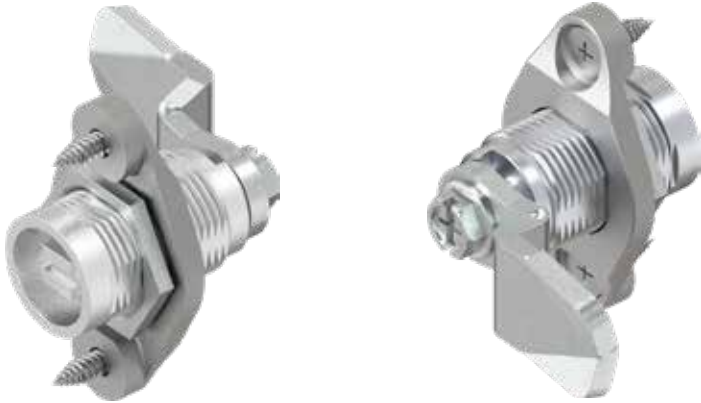
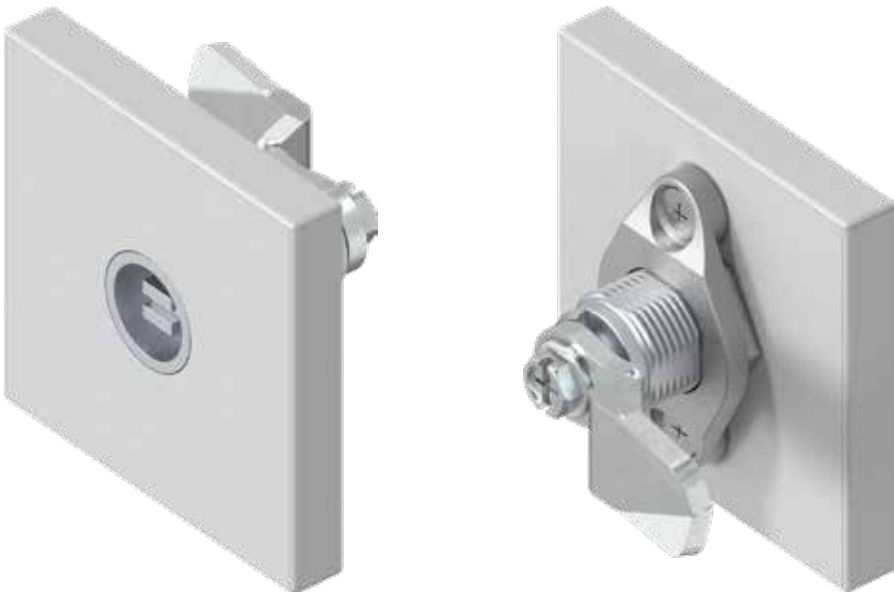
Further parts see page
– Cam with catch B1-430
– Keys B1-470

1000-U958

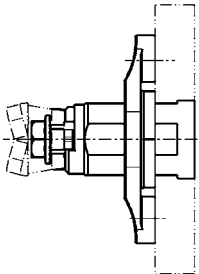
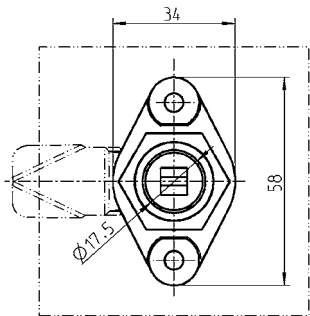
Quarter turn with cover for latches installed in the floor Housing, insert railway with outer rack AISI 316; nut and screw AISI 316; with spring washer and seal	
	1000-U958

Quarter turn for flush mounting

PROGRAM 1057



Cut out



On request:
– Further inserts

Further parts see page
– Cam with catch
– Keys

B1-430
B1-470

Quarter turn for flush mounting
Housing and insert squar 8 zinc die chrome-plated; anti-twist device AISI 304;
nut and screw m.s. zinc-plated; with seal

1057-U3-01

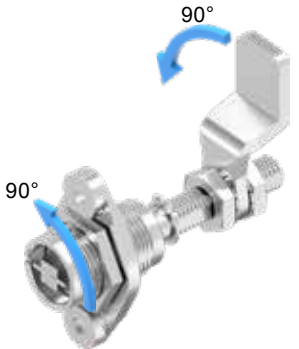
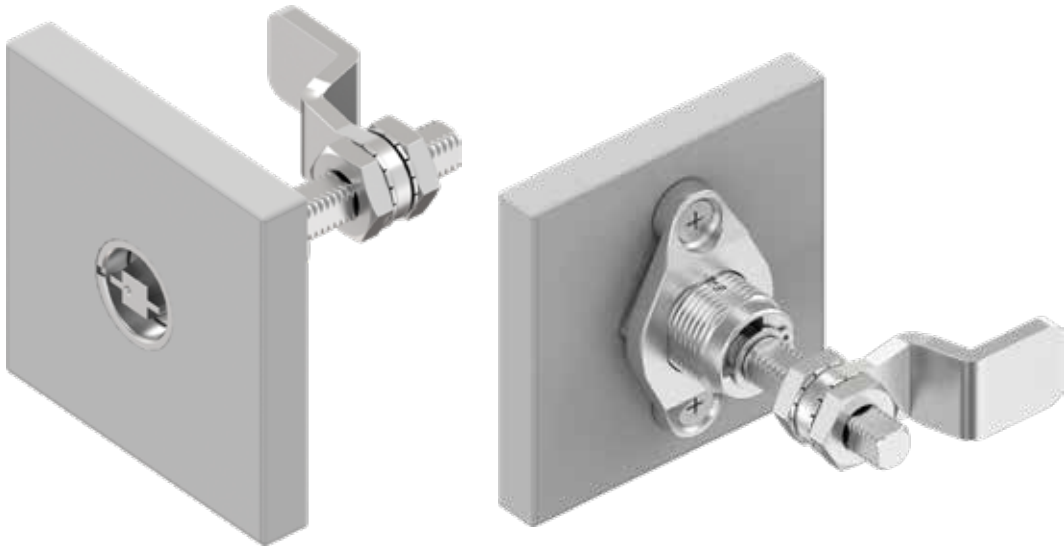
Stainless steel compression latch for flush mounting with marking

PROGRAM 1000

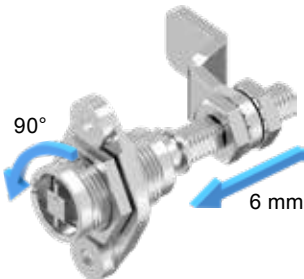
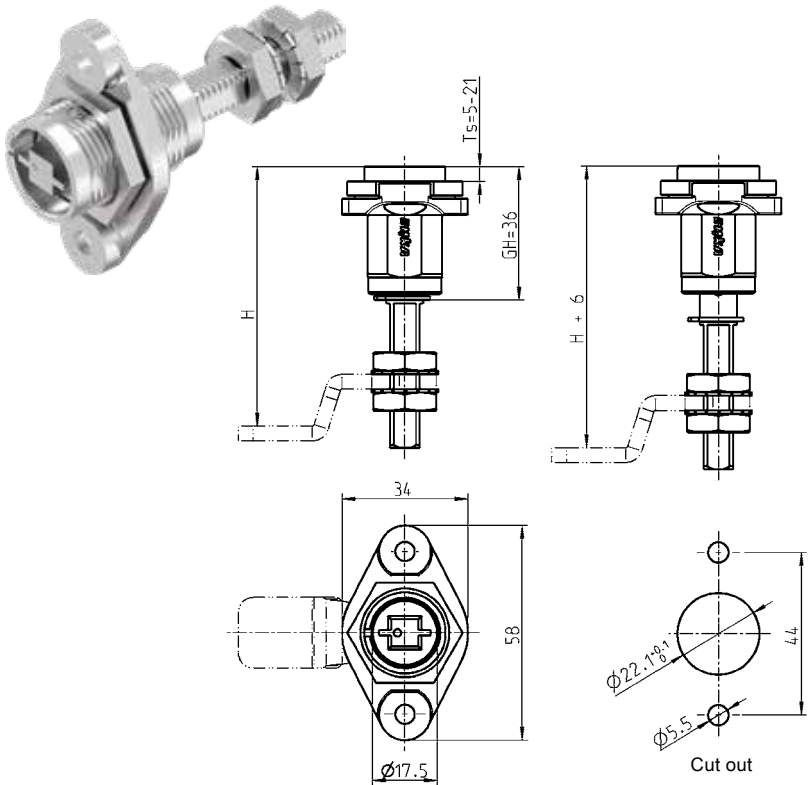


Tamper and vibration proof

The safety quarter turn is of a vibration-proof design.
Depending on the installation location and operational conditions, specific checks are necessary and/or supplementary measures of fastening required.



Open condition
Turning the insert 90° causes the cam to rotate.



Closed condition
Further rotation of the insert by 90° moves the cam 6 mm in axial direction.



Compressed condition
Open:
Reversed motion

On request:
– Further inserts

Further parts see page
– Cam without catch and without recess B1-440
– Dust cap B5-410
– Key B1-470

Stainless steel compression latch for flush mounting with marking Housing, insert railway with outer rack AISI 316; shaft AISI 303; nuts and toothed lock washer AISI 316; with spring and seal		
	Left version	Right version
	1000-SU215-LIPH	1000-SU215-REPH

Compression latch

PROGRAM 1000

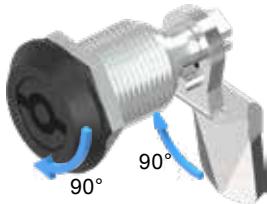
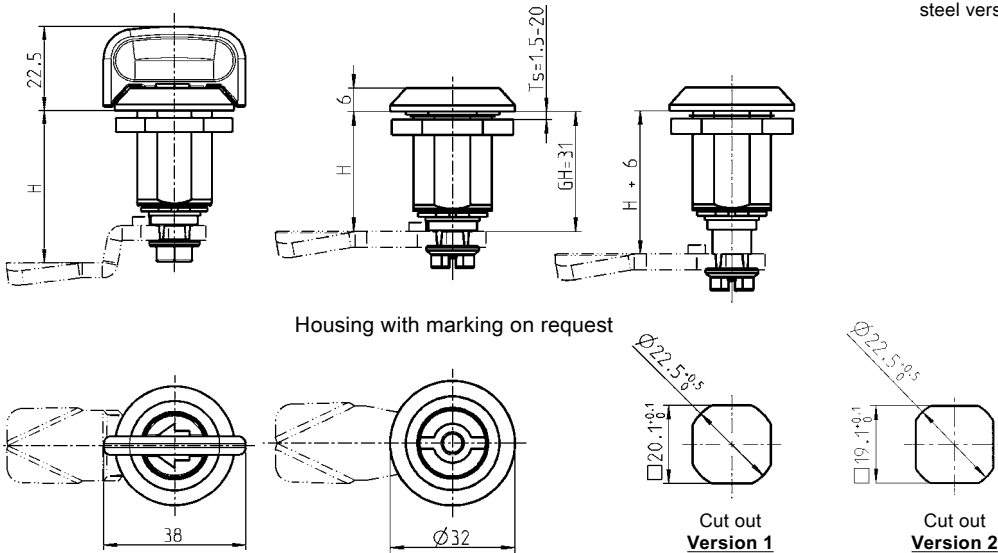


Tamper and vibration proof

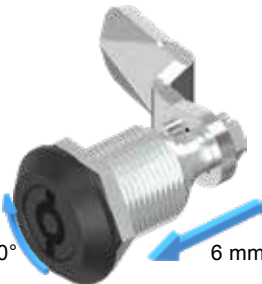
The safety quarter turn is of a vibration-proof design.
Depending on the installation location and operational conditions, specific checks are necessary and/or supplementary measures of fastening required.



for stainless steel version



Open condition
Turning the insert 90° causes the cam to rotate.



Closed condition
Further rotation of the insert by 90° moves the cam 6 mm in axial direction.



Compressed condition
Open:
Reversed motion

Insert railway in conformity with RIC.

Note:
Further inserts on request

Further parts see page
– Cam with catch B1-430
– Dust cap B5-410
– Key B1-470

Cut out square 1 Compression latch		
Housing and insert zinc die black powder-coated or AISI 316; nut and screw m.s. zinc-plated or stainless steel; with spring and seal		
Further insert variants on request	Zinc die black powder-coated	AISI 316
Square 7 with arrow	1000-U796	on request
Square 8	1000-U755	on request
Square 8 with arrow	1000-U798	on request
Square 8 with marking	on request	1000-U755-01
Triangular 7	1000-U795	on request
Triangular 8	1000-U783	on request
Double bit 3	1000-U749	1000-U749-01
Double bit 5	1000-U748	1000-U748-01
Hexagon female SW 8	1000-U807	on request
Hexagon female SW 8 with pin	1000-U805	on request
Hexagon female SW 10	1000-U809	on request
Square female 8	1000-U811	on request
Slot 2 x 4	1000-U777	1000-U777-01
Insert railway	1000-U831	1000-U831-01
Tube with marking	1000-U833	on request
Wing knob insert	1000-U882	on request

Cut out square 2 Compression latch		
Housing and insert zinc die black powder-coated or AISI 316; nut and screw m.s. zinc-plated or stainless steel; with spring and seal		
Further insert variants on request	Zinc die black powder-coated	AISI 316
Square 8	1000-U981	on request
Square 8 with marking	on request	1000-U981-01
Double bit 3	1000-U982	on request
Double bit 5	1000-U983	on request

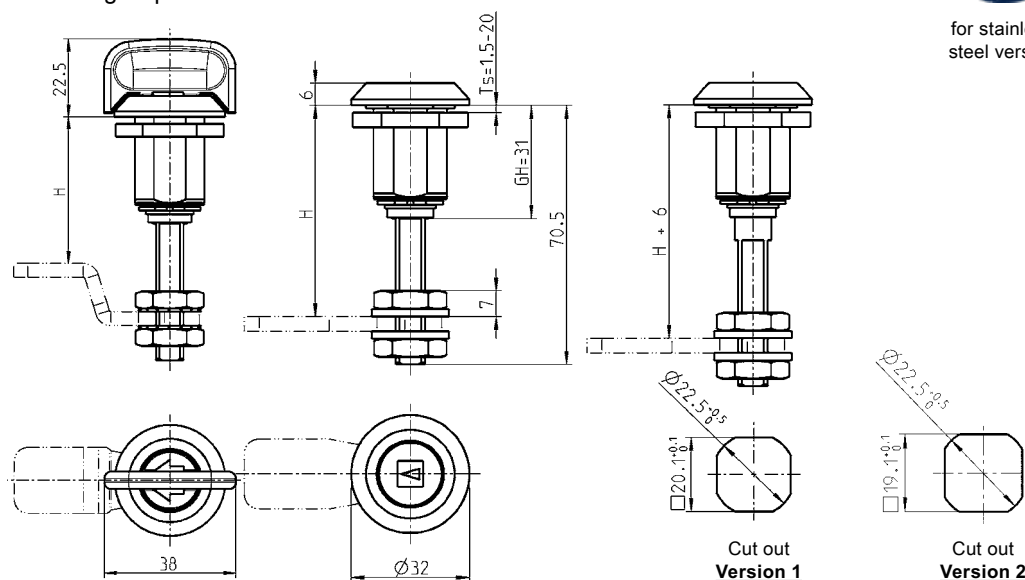
Compression latch with adjustable cam height

PROGRAM 1000

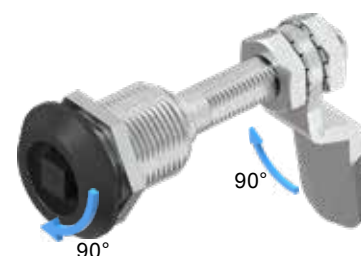
Tamper and vibration proof

The safety quarter turn is of a vibration-proof design.

Depending on the installation location and operational conditions, specific checks are necessary and/or supplementary measures of fastening required.

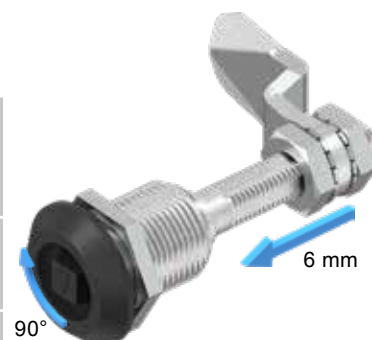


for stainless steel version



Open condition

Turning the insert 90° causes the cam to rotate.



Closed condition

Further rotation of the insert by 90° moves the cam 6 mm in axial direction.



Compressed condition

Open:
Reversed motion

Insert railway in conformity with RIC.

Further parts see page

- Cam with catch B1-430
- Dust cap B5-410
- Key B1-470

Cut of version 1 | Compression latch with adjustable cam height

Housing and insert zinc die black powder-coated or AISI 316;
locking shaft zinc die or m.s. zinc-plated or AISI 316;
nuts and washers m.s. zinc-plated or AISI 316; with spring and seal

Further insert variants on request	Housing and insert zinc die black powder-coated		Housing and insert AISI 316
	Locking shaft zinc die	Shaft m.s. zinc-plated	Shaft AISI 316
Square 7 with arrow	1000-U786	1000-SU720	on request
Square 8 with arrow	1000-U799	1000-SU861	1000-U755-02
Triangular 7	1000-U794	1000-SU724	on request
Triangular 8	1000-U802	1000-SU725	on request
Double bit 3	1000-U803	1000-SU730	on request
Double bit 5	1000-U804	1000-SU752	on request
Hexagon male SW 11.1 with marking	1000-U816	1000-SU324	on request
Hexagon female SW 8	1000-U808	1000-SU735	on request
Hexagon female SW 8 with pin	1000-U806	1000-SU733	on request
Hexagon female SW 10	1000-U810	on request	on request
Square female 8	1000-U812	on request	on request
Slot 2 x 4	1000-U813	on request	on request
Insert railway	1000-U832	on request	1000-U831-02
Tube with marking	1000-U830	1000-SU736	on request
Wing knob insert	1000-U880	on request	on request

Cut of version 2 | Compression latch with adjustable cam height

Housing and insert zinc die black powder-coated or AISI 316;
locking shaft zinc die or m.s. zinc-plated or AISI 316;
nuts and washers m.s. zinc-plated or AISI 316; with spring and seal

Further insert variants on request	Housing and insert zinc die black powder-coated		Housing and insert AISI 316
	Locking shaft zinc die	Shaft m.s. zinc-plated	Shaft AISI 316
Square 8 with arrow	on request	1000-SU1167	on request

Stainless steel and hybrid (aluminium and stainless steel) compression latch with marking

PROGRAM 1000



Tamper and vibration proof

The safety quarter turn is of a vibration-proof design.
Depending on the installation location and operational conditions, specific checks are necessary and/or supplementary measures of fastening required.

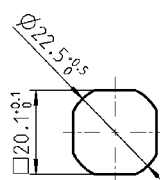
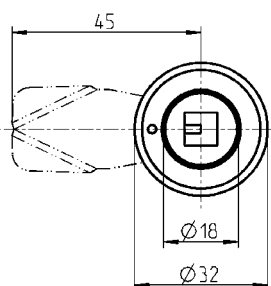
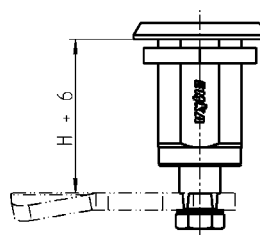
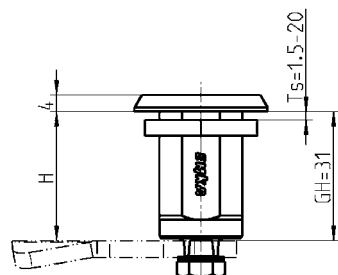


Stainless Steel



Stainless steel and aluminium

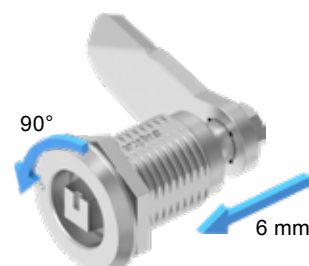
Additional IP protection for cleaning work inside possible with flat seal 1000-570 (self-adhesive).
This seal is included with -SU part no.



Cut out



Open condition
Turning the insert 90° causes the cam to rotate.



Closed condition
Further rotation of the insert by 90° moves the cam 6 mm in axial direction.



Compressed condition

Open:
Reversed motion

Insert railway in conformity with RIC.

On request:
– Further inserts

Further parts see page
– Cam with catch B1-430
– Dust cap B5-410
– Key B1-470

Stainless steel compression latch with marking

Housing and insert AISI 316; nut and screw stainless steel; with spring and seal

* = no foamed seal, O-ring made of silicone, with high temperature grease

Further insert variants on request	Left version	Right version
Square 7	1000-SU925-LIPH	1000-SU925-REPH
Square 8	1000-U865-LIPH	1000-U865-REPH
Square 8	1000-SU1216-LI *	on request
Triangular 7	1000-SU925-02LIPH	on request
Triangular 8	1000-U911-LIPH	1000-SU925-01REPH
Hexagon male SW 10	1000-U869-LIPH	1000-U869-REPH
Insert railway	1000-U870-LIPH	1000-U870-REPH
Insert railway with outer rack	1000-SU925-03LIPH	1000-SU925-03REPH

Hybrid (aluminium and stainless steel) compression latch with marking

Housing aluminium anodized; insert AISI 316; nut and screw stainless steel; with spring and seal

Square 7	1000-U968-LI	1000-U968-RE
Square 8	1000-U968-04LI	1000-U968-04RE
Triangular 6.5	1000-SU1186-02LI	on request
Triangular 7	1000-U968-02LI	on request
Triangular 8	1000-U968-01LI	1000-U968-01RE
Hexagon male SW 10	1000-U968-05LI	1000-U968-05RE
Insert railway	1000-U968-06LI	1000-U968-06RE
Insert railway with outer rack	1000-U968-03LI	1000-U968-03RE

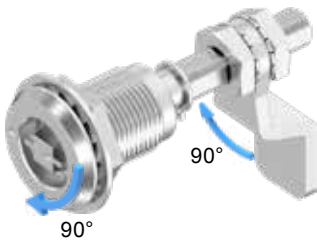
Stainless steel compression latch with marking

PROGRAM 1000

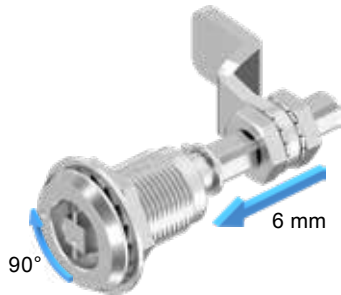
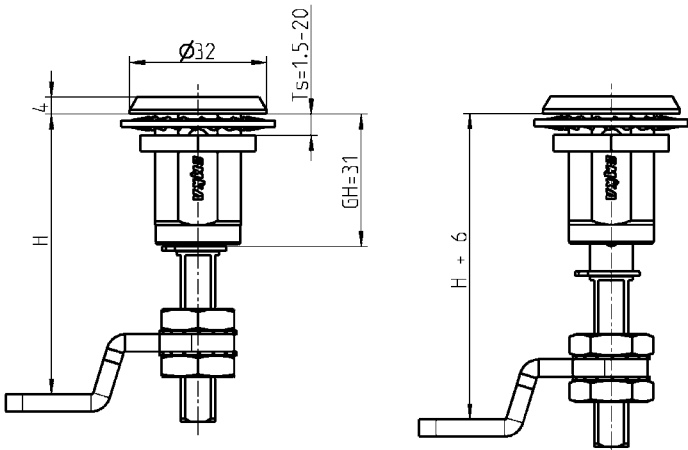


Tamper and vibration proof

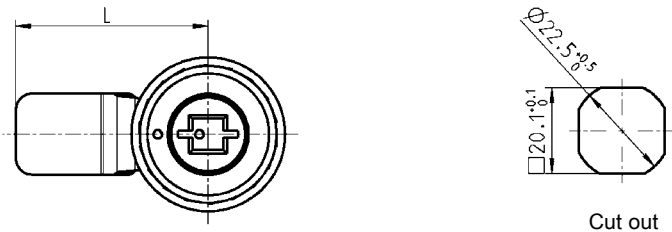
The safety quarter turn is of a vibration-proof design.
Depending on the installation location and operational conditions,
specific checks are necessary and/or supplementary measures of
fastening required.



Open condition
Turning the insert 90° causes
the cam to rotate.



Closed condition
Further rotation of the insert
by 90° moves the cam 6 mm
in axial direction.



Compressed condition
Open:
Reversed motion

On request:
– Further inserts

Further parts see page
– Cam without catch and without recess B1-440
– Dust cap B5-410
– Key B1-470

Stainless steel compression latch with marking Housing, insert railway with outer rack AISI 316; shaft AISI 303; serrated lock washer, screw, nuts and tooth lock washers AISI 316; with spring and seal		
	Left version	Right version
	1000-SU215-01LIPH	1000-SU215-01REPH

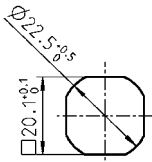
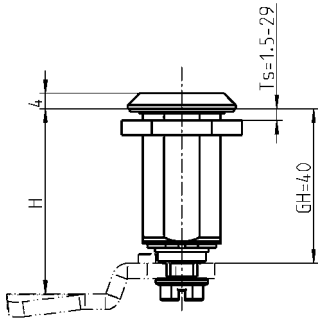
Stainless steel compression latch railway version RIC compliant with marking

PROGRAM 1000

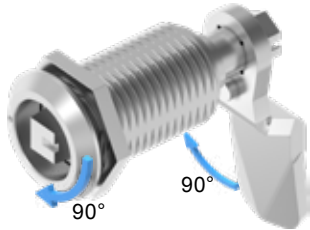
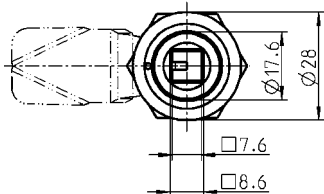
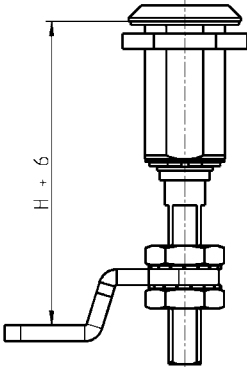
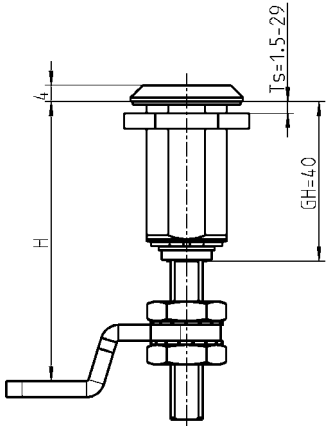


Tamper and vibration proof

The safety quarter turn is of a vibration-proof design.
Depending on the installation location and operational conditions,
specific checks are necessary and/or supplementary measures of
fastening required.



Cut out



Open condition
Turning the insert 90° causes
the cam to rotate.



Closed condition
Further rotation of the insert
by 90° moves the cam 6 mm
in axial direction.



Compressed condition

Open:
Reversed motion

Insert railway in
conformity with RIC.

Further parts see page
– Cam with catch
– Dust cap
– Key

B1-430
B5-410
B1-470

**Stainless steel compression latch
railway version RIC compliant with marking**
Housing and switch ring AISI 316;
insert railway and locking shaft AISI 304;
nut and screw AISI 316; with spring and seal

	short shaft	long shaft
Insert railway	1000-SU785	1000-SU785-02
Triangular 7	1000-SU785-01	on request
Triangular 8 with marking	1000-SU785-04	on request
Square female 7.5 with 3 mm mandrel	1000-SU785-05	on request

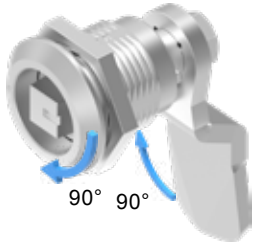
Stainless steel compression latch railway version RIC compliant with marking

PROGRAM 1000

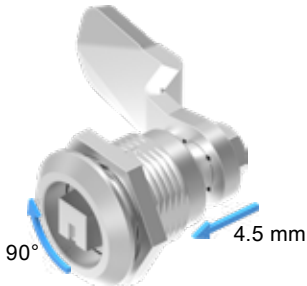
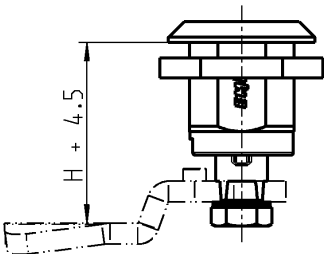
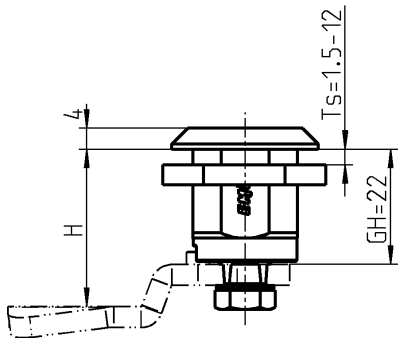


Tamper and vibration proof

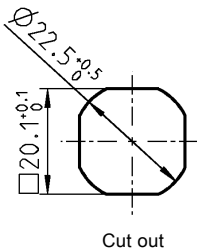
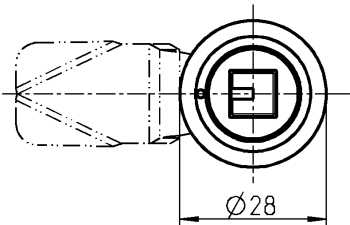
The safety quarter turn is of a vibration-proof design.
Depending on the installation location and operational conditions,
specific checks are necessary and/or supplementary measures of
fastening required.



Open condition
Turning the insert 90° causes
the cam to rotate.



Closed condition
Further rotation of the insert
by 90° moves the cam 4.5 mm
in axial direction.



Compressed condition
Open:
Reversed motion

Insert railway in
conformity with RIC.

Further parts see page
– Cam with catch B1-430
– Dust cap B5-410
– Key B1-470

Stainless steel compression latch railway version RIC compliant with marking Housing, insert, locking shaft, nut and screw AISI 316; with spring and seal	
Insert railway	1000-SU751
Square 7.9 with cone 8.6	1000-SU751-01
Square female 7.5 with 3 mm mandrel	1000-SU751-05

Stainless steel compression latch with red - green marking

PROGRAM 1000



Tamper and vibration proof

The compression latch is designed to be vibration-proof as such. Depending on the installation location and operational conditions, specific checks are necessary and/or supplementary measures of fastening required.



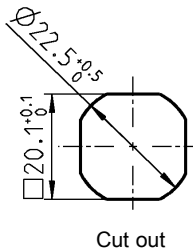
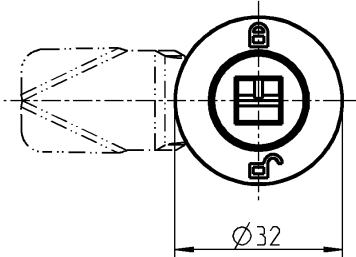
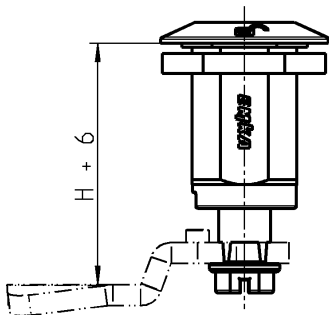
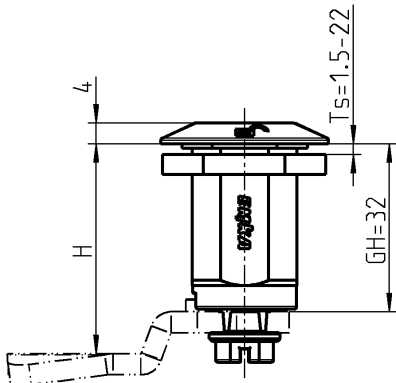
AISI 316 polished



AISI 316 highly polished



Open condition
Turning the insert 90° causes the cam to rotate.



Cut out



Closed condition
Further rotation of the insert by 90° moves the cam 6 mm in axial direction.



Compressed condition

Open:
Reversed motion

Further parts see page
– Cam with catch B1-430
– Dust cap B5-410
– Key B1-470

Stainless steel compression latch with red - green marking		
Housing AISI 316 with surface by choice; insert, locking shaft and nut AISI 316; screw AISI 304; with spring and seal		
Housing polished	Left version	Right version
Insert railway	1000-U890-LIPH	1000-U890-REPH
Hexagon male SW 11	1000-U891-LIPH	1000-U891-REPH
Housing highly polished		
Insert railway	1000-U890-01LIPH	1000-U890-01REPH
Hexagon male SW 11	1000-U891-01LIPH	1000-U891-01REPH

Compression latch railway version RIC compliant with visual open indicator

PROGRAM 1000

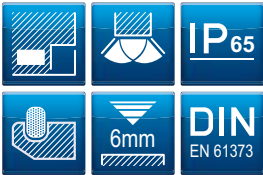


Tamper and vibration proof

The safety quarter turn is of a vibration-proof design. Depending on the installation location and operational conditions, specific checks are necessary and/or supplementary measures of fastening required.

When the compression latch is used in combination with the dust cap (page B1-410), another security aspect is added:

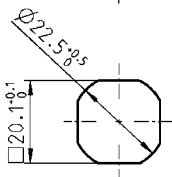
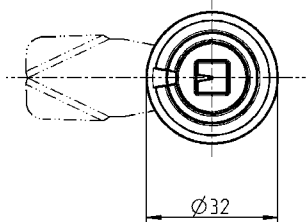
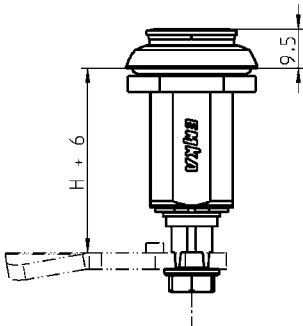
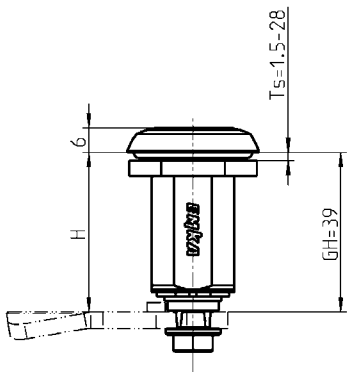
Additionally, when the lock is open and the red ring visible, the dust cap cannot be locked and remains open.



Compressed condition



Open condition



Open condition
Turning the insert 90° causes the cam to rotate.



Closed condition
Further rotation of the insert by 90° moves the cam 6 mm in axial direction.



Compressed condition

Open:
Reversed motion

Insert railway in conformity with RIC.

Further parts see page
– Cam with catch B1-430
– Dust cap B5-410
– Key B1-470

Compression latch railway version RIC compliant with visual open indicator	
Housing and insert zinc die black powder-coated; signal ring red; nut and screw m.s. zinc-plated, with spring and seal	
Square 8	1000-U846
Insert railway	1000-U848

Compression latch with optical opening indicator

PROGRAM 1500



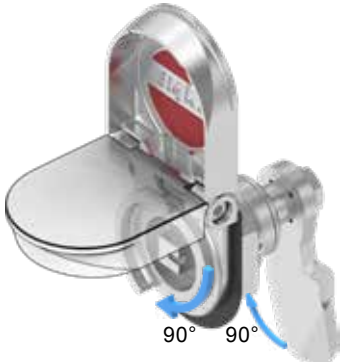
Tamper and vibration proof

The safety quarter turn is of a vibration-proof design. Depending on the installation location and operational conditions, specific checks are necessary and/or supplementary measures of fastening required.

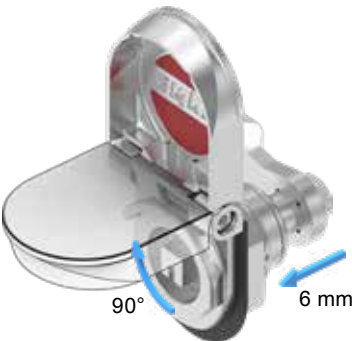


Product benefits

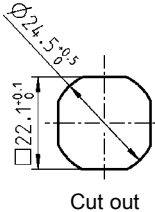
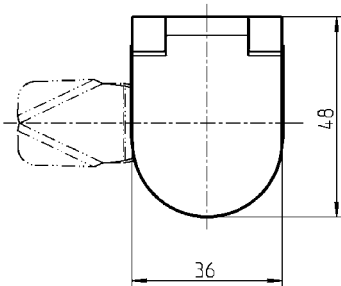
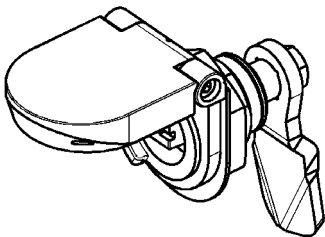
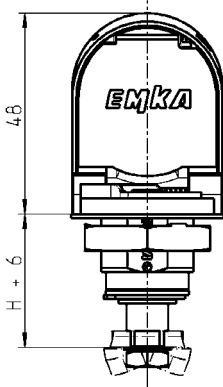
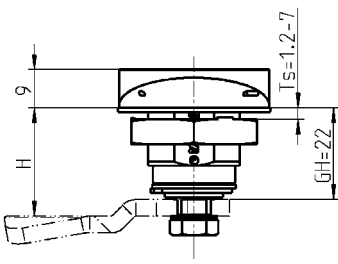
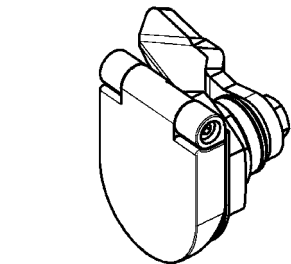
- Visual opening indicator clearly visible due to 90° open flap when uncompressed
- The red surface on the inside of the cap makes it easier to recognize the open position
- The flap closes automatically when compressed
- Integrated dust cap
- The flat seal cushions the flap and prevents damages to the door
- Standard cut out program 1500
- Patent submitted



Open condition
Turning the insert 90° causes the cam to rotate.



Closed condition
Further rotation of the insert by 90° moves the cam 6 mm in axial direction.



Compressed condition

Open:
Reversed motion

Further parts see page
– Cam without catch
– Key

B1-430
B1-470

Compression latch with optical opening indicator		
Nut and earthing nut AISI 316; screw and toothed lock washer stainless steel; with spring and seal		
	Opening direction left (counterclockwise)	Opening direction right (clockwise)
Triangular 7.4	1500-SU4-LIPH	on request
Square female 7.5 with 3 mm mandrel	on request	on request
Square 8 with marking	1500-U776-LIPH	1500-U776-REPH
Square 8 with marking and cap with red pad printing	1500-U776-01LIPH	1500-U776-01REPH

Compression latch with OPEN - CLOSED indicator

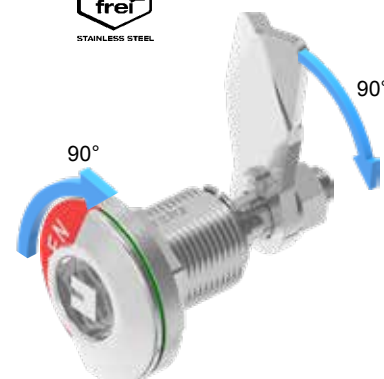
PROGRAM 1000

Tamper and vibration proof

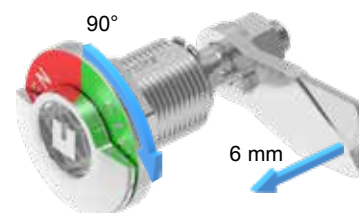
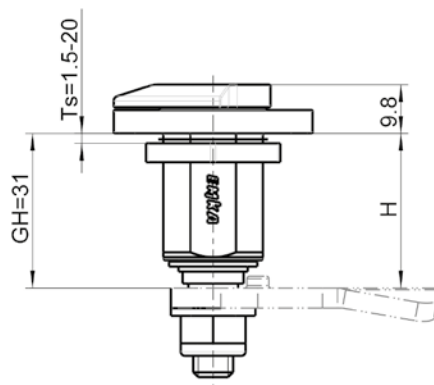
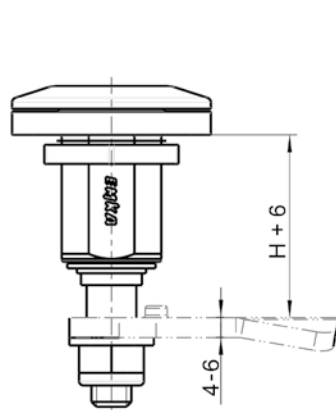
The safety quarter turn is of a vibration-proof design.
Depending on the installation location and operational conditions,
specific checks are necessary and/or supplementary measures of
fastening required.



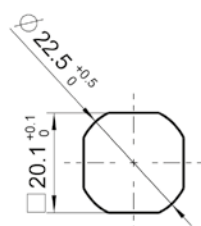
The OPEN - CLOSED imprint is wipe-tested according to
DIN EN 62208 chap. 9.3 and DIN EN 61439-1 chap. 10.2.7



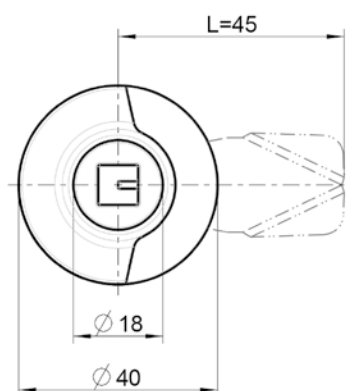
Open condition
Turning the insert 90° causes
the cam to rotate.



Closed condition
Further rotation of the insert
by 90° moves the cam 6 mm
in axial direction.



Cut out



Compressed condition

Open:
Reversed motion

Illustration with left-hinged door

Compression latch with OPEN - CLOSED indicator

Housing and insert AISI 316;
locking shaft and switch ring stainless steel;
nut, self-locking nut, spring, washer and circlip stainless steel; O-ring

Further insert variants on request	Right version	Left version
Square 8, without seal	on request	1000-SU1222
Square 8, with foamed seal, IP 65	on request	on request

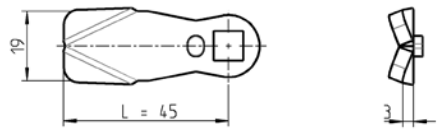
Further parts see page

- Cam stainless steel B1-430
- (not for cam with rod control)
- Cam stainless steel B1-460
- Key B1-470

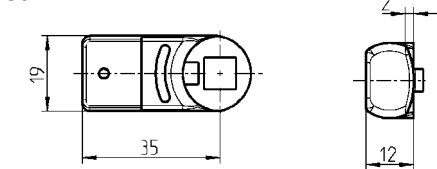
Cam for quarter turn

PROGRAM 1000

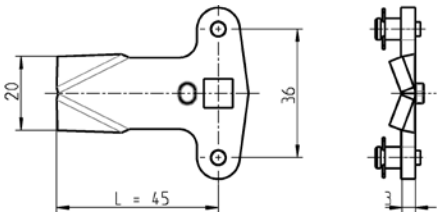
Version 1
Cam



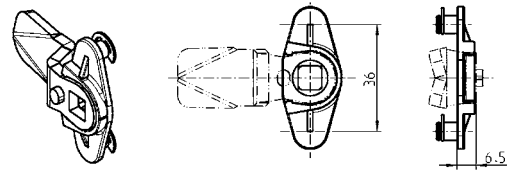
Version 2
Cam



Version 3
Cam with rod control (flank cam)

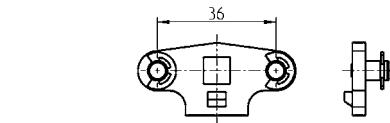


Version 4
Rod control for steel cam or stainless steel cam

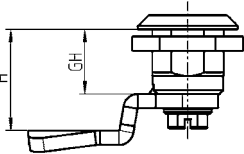


Rod control zinc die zinc-plated, circlip m.s. zinc-plated	
	1000-U776
Rod control AISI 316, circlip stainless steel	
	1000-U776-PH

Version 5
Rod control



Rod control m.s. zinc-plated	
	1000-U167



Cam with catch, material of choice

H-dimensions for GH =

12	18	22	28	30	31	36	39	40	50	60	Version 1	
											L = 45	
											m.s. zinc-plated	
-	4	8	14	16	17	22	25	26	36	46	1000-112	
-	6	10	16	18	19	24	27	28	38	48	1000-22	
2	8	12	18	20	21	26	29	30	40	50	1000-113	
4	10	14	20	22	23	28	31	32	42	52	1000-21	
7	13	17	23	25	26	31	34	35	45	55	1000-20	
8	14	18	24	26	27	32	35	36	46	56	1000-19	
9	15	19	25	27	28	33	36	37	47	57	-	
10	16	20	26	28	29	34	37	38	48	58	1000-18	
12	18	22	28	30	31	36	39	40	50	60	1000-17	
14	20	24	30	32	33	38	41	42	52	62	1000-16	
16	22	26	32	34	35	40	43	44	54	64	1000-15	
18	24	28	34	36	37	42	45	46	56	66	1000-14	
19	25	29	35	37	38	43	46	47	57	67	1000-27	
20	26	30	36	38	39	44	47	48	58	68	1000-50	
22	28	32	38	40	41	46	49	50	60	70	1000-13	
24	30	34	40	42	43	48	51	52	62	72	1000-28	
26	32	36	42	44	45	50	53	54	64	74	1000-26	
28	34	38	44	46	46	52	55	56	66	76	1000-12	
29	35	39	45	47	48	53	56	57	67	77	1000-11	
30	36	40	46	48	49	54	57	58	68	78	1000-51	
32	38	42	48	50	51	56	59	60	70	80	1000-52	
34	40	44	50	52	53	58	61	62	72	82	1000-25	
36	42	46	52	54	55	60	63	64	74	84	1000-53	
38	44	48	54	56	57	62	65	66	76	86	1000-54	
39	45	49	55	57	58	63	66	67	77	87	1000-10	
41	47	51	57	59	60	65	68	69	79	89	1000-55	
44	50	54	60	62	63	68	71	72	82	92	1000-56	

minus offset
↑
straight version
↓
plus offset



Cam with catch



Cam without catch
on request

Note:

This catalogue page does not show all available cams.

Other versions such as:

- Cams without catch
- Cams with other H- and L-dimension
- Cams with recess in the opposite direction
- etc.

please ask.



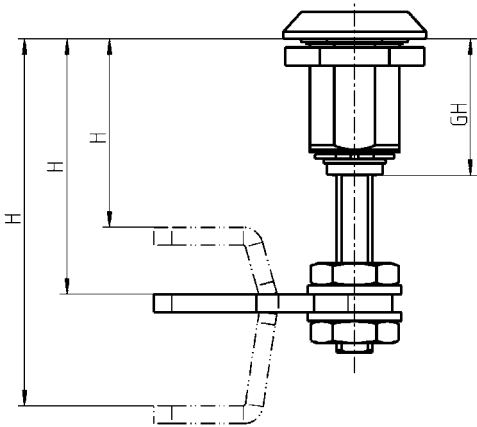
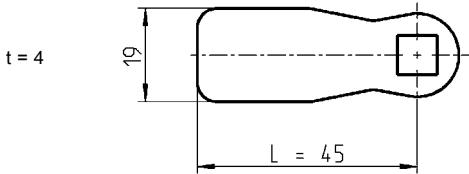
Version 1		Version 1		Version 2	Version 3
L = 45 AISI 304	L = 45 AISI 316	L = 35 m.s. zinc- plated	L = 35 Polyamide GF black ①	Polyamide GF black	m.s. zinc- plated
-	-	-	-	-	1000-U63
1000-221	1000-221-PD	-	-	-	1000-U21
-	-	-	-	-	1000-U64
1000-223	1000-223-PD	-	-	-	1000-U22
-	-	-	-	-	1000-U23
1000-225	1000-225-PD	-	-	-	1000-U24
-	-	-	1000-5043-SI	-	-
-	-	-	-	-	1000-U25
1000-227	1000-227-PD	1000-5046	1000-5046-SI	1000-386-18	1000-U26
1000-228	1000-228-PD	1000-5161	-	1000-386-20	1000-U27
1000-179	1000-179-PD	1000-5119	-	1000-386-22	1000-U28
1000-229	1000-229-PD	-	-	1000-386-24	1000-U29
-	-	-	-	-	1000-U30
1000-230	1000-230-PD	-	-	-	1000-U31
1000-180	1000-180-PD	1000-5164	-	1000-386-28	1000-U32
-	-	-	-	1000-386-30	1000-U33
-	-	-	-	-	1000-U34
-	-	-	-	-	1000-U35
-	-	-	-	-	1000-U36
-	-	-	-	-	1000-U37
-	-	-	-	-	1000-U38
-	-	-	-	-	1000-U39
-	-	-	-	-	1000-U40
-	-	-	-	-	1000-U41
-	-	-	-	-	1000-U42
-	-	-	-	-	1000-U43
-	-	-	-	-	1000-U44

①
only for light doors and flaps

Further parts see page
– Latches

B1-120
to B1-300
B2-210
to B2-310

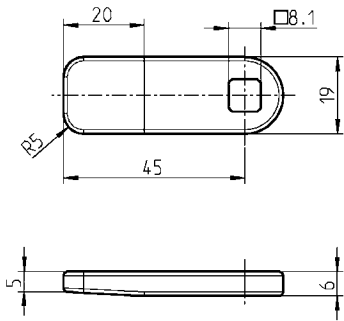
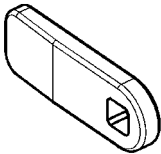
Cam without catch and without recess
PROGRAM 1000



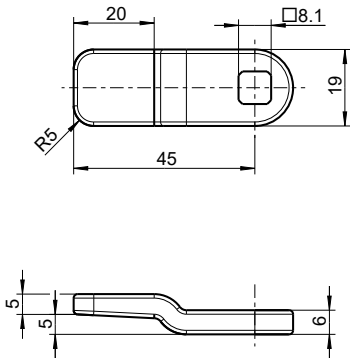
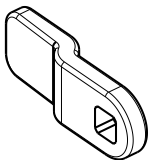
Cam m.s. zinc-plated		
for GH = 31 mm	H	GH = 31
straight	38 - 58	1000-476
Offset 14 mm	24 - 44 ; 52 - 72	1000-478
Offset 26 mm	12 - 32 ; 64 - 84	1000-477
for GH = 45 mm	H	GH = 45
straight	52 - 72	1000-476
Offset 14 mm	38 - 58 ; 66 - 86	1000-478
Offset 26 mm	26 - 46 ; 78 - 98	1000-477
for GH = 64 mm	H	GH = 64
straight	71 - 91	1000-476
Offset 14 mm	57 - 77 ; 85 - 105	1000-478
Offset 26 mm	45 - 65 ; 97 - 117	1000-477

On request:
– further cams

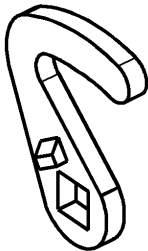
Further parts see page
– Compression latches
from B1-210
to B1-300



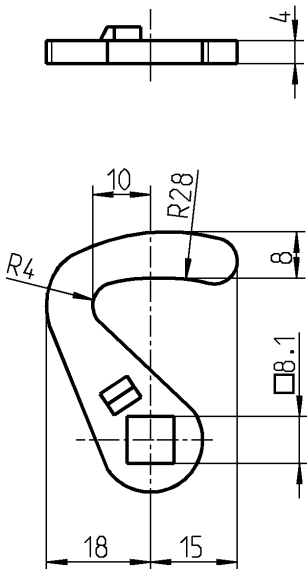
Cam for heavy load AISI 316		
straight version		1000-569-PH



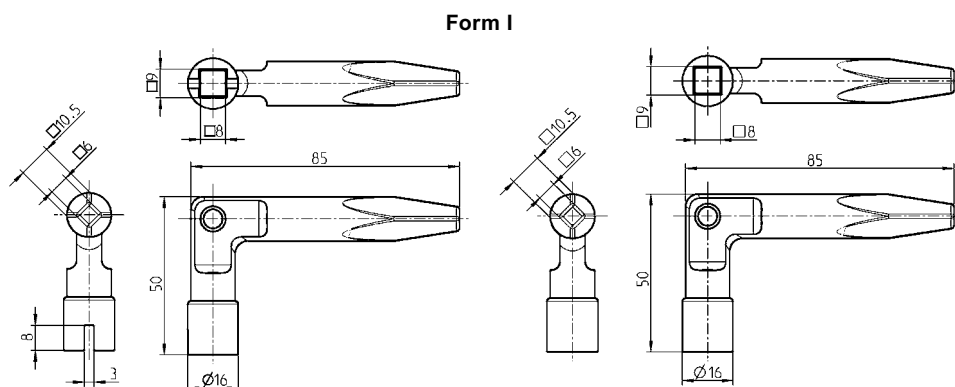
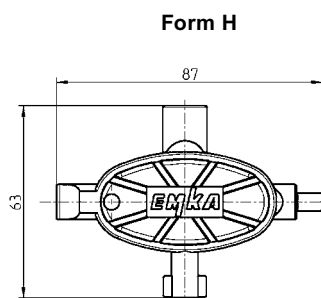
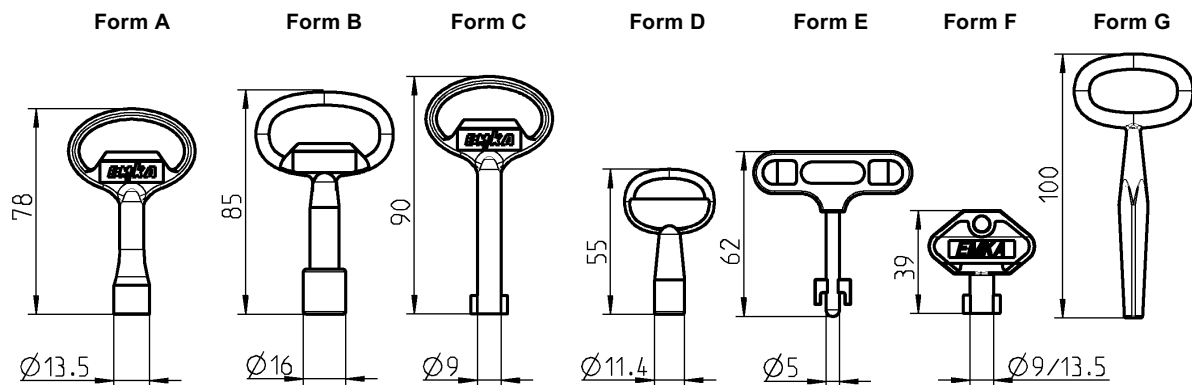
Cam for heavy load AISI 316		
Offset 4 h = mm		1000-569-01PH



left, mirror image



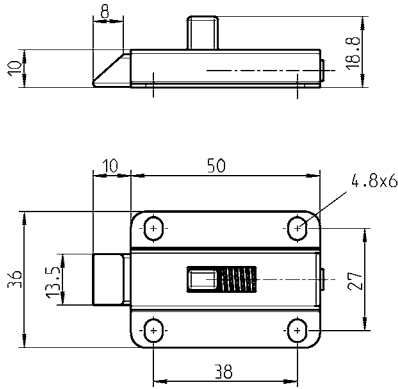
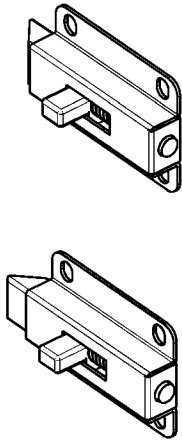
Hooked cam m.s. zinc-plated		
	LH version	RH version
	1000-S880	1000-S881



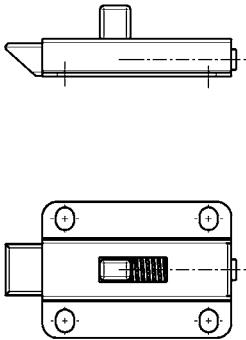
Key form	A	B	C	D	E	F	G
	Zinc die black powder-coated	Zinc die black powder-coated	Zinc die black powder-coated	Zinc die black powder-coated	Zinc die / Polyamide GF black	Polyamide GF black	GTW nickel-plated
Square 6	1004-18	–	–	1004-20	–	1004-37	–
Square 7	1004-01	–	–	–	–	1004-36	–
Square 8	1004-02	–	–	–	–	1004-35	–
Triangular 6.5	–	–	–	1004-21	–	–	–
Triangular 6.5 CNOMO type 1	1004-26	–	–	–	–	–	–
Triangular 7	1004-03	–	–	–	–	1004-39	–
Triangular 8	1004-04	–	–	–	–	1004-38	–
Triangular 10	–	1004-24	–	–	–	–	–
Crown type	–	1004-31	–	–	–	–	–
Eastern Europe Ø 13 half-round	–	1004-42	–	–	–	–	–
Double bit 3	–	–	1004-05	–	–	1004-34	–
Double bit 5	–	–	1004-06	–	–	1004-33	–
Hexagon SW 11.1	–	1004-54	–	–	–	–	–
FIAT	–	–	–	–	1004-41	–	–
Square male 6	1004-29	–	–	–	–	–	–
Square male 8	1004-30	–	–	–	–	–	–
Square male 6 - 9.5	–	–	–	–	–	–	1004-19
Hexagon male 8 with bore hole	1004-49	–	–	–	–	–	–
Tube	–	–	–	1004-51	–	–	–
Form H, universal key polyamide GF blue							
Square male 6, square 8, double bit 5 and slot							1004-48
Form I, insert railway zinc die black powder-coated							
Railway key square 8 - 9, square male 6 - 10.5							1004-52
Railway key with slot square 8 - 9, square male 6 - 10.5							1004-S132



Version A
screw-on



Version B
screw-on



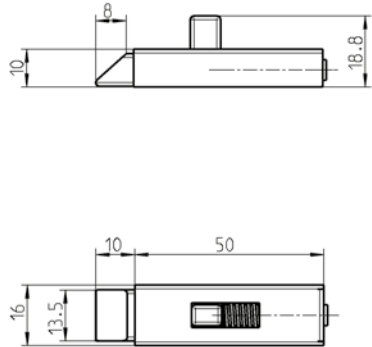
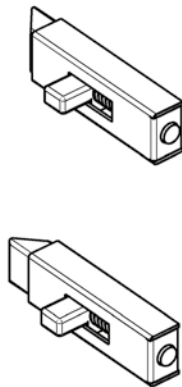
Version A
screw-on



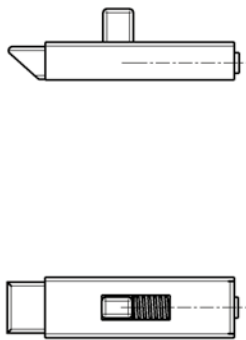
Version A
weld-on



Version A
weld-on



Version B
weld-on



Version B
screw-on



Version B
weld-on



Slam-lock m.s. zinc-plated resp. m.s. raw; locking bolt zinc die zinc-plated		
	Version A	Version B
screw-on, m.s. zinc-plated	1053-U1	1053-U2
weld-on, m.s. raw	1053-U3	1053-U4

Examples of customer solutions



1018-SU1





Quarter turns
PROGRAM 1000

Page 36 1B-140



Hooked cam
PROGRAM 1000

Page 93 1C-160



Slam-lock
PROGRAM 1034

Page 98 1C-360



Slam-lock
PROGRAM 1034

Page 501 8A-320



Slam-lock
PROGRAM 1053

Page 502 8A-340



Dead-bolt lock
PROGRAM 1053

Page 505 8A-520



You will find many more **closures** in the interactive [EMKA main catalogue](#) as well as in the [online product database](#).

[View interactive EMKA main catalogue](#)

[View online product database](#)



List of contents

INFO



1 Locks and Latches

B1-100	Information
B1-120	Quarter turns
B1-205	Compression latches
B1-430	Accessories for locks and latches
B1-530	Other locks and latches
B1-600	Examples of customer solutions



2 Locking Systems

B2-100	Compression latch system with multi-point locking
B2-200	Swinghandles
B2-310	Rod control with multi-point locking
B2-410	Examples of customer solutions



3 Hinges

B3-110	Interior hinges
B3-210	Exterior hinges
B3-410	Pin hinges



4 Sealing Profiles and Edge Protection

B4-100	Information
B4-210	Edge protections made of fire protection material
B4-310	Sealing profiles made of fire protection material, self-clamping
B4-410	Sealing profiles made of fire protection material secured in a U-section
B4-510	Sealing profile made of fire protection material, self-adhesive
B4-610	Clip-on profiles made of fire protection material
B4-710	EMC sealing profiles



5 Accessories

B5-210	Emergency hammer
B5-310	Tail hook / Cover stay
B5-410	Dust cap for high-speed trains

Article number index

Compression latch sytem for swinghandles and quarter turns

PROGRAM 1000, 1125, 1150

Ⓐ



**Swinghandle
with GH = 18**

Ⓑ



**Handle quarter turn
with GH = 18**

Ⓒ



**Safety quarter turn
with GH = 18**

Right version
Compressed condition



Left version
Compressed condition

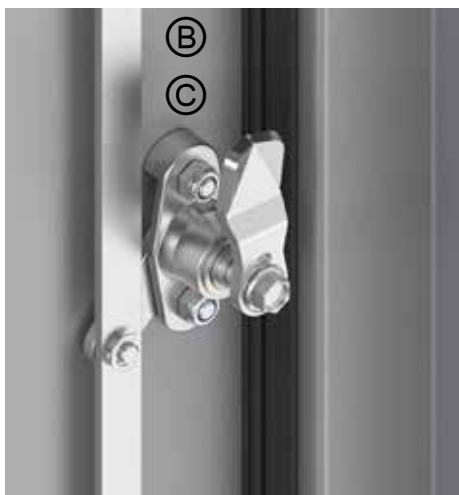


Product benefits

- Compression function
- Latch and cut out independent for compression latch system
- Corner guide can be used for additional latches in transverse installation
- High closing comfort
- Patented



Left version
Open condition



Further parts see page

– Connecting rod	B2-110
– Locking point	B2-120
– Rod control	B2-130
– Rod guide	B2-140
– Cam	B2-150

Program 1000

– Safety quarter turn	B1-140
	B1-160

Program 1125, 1150

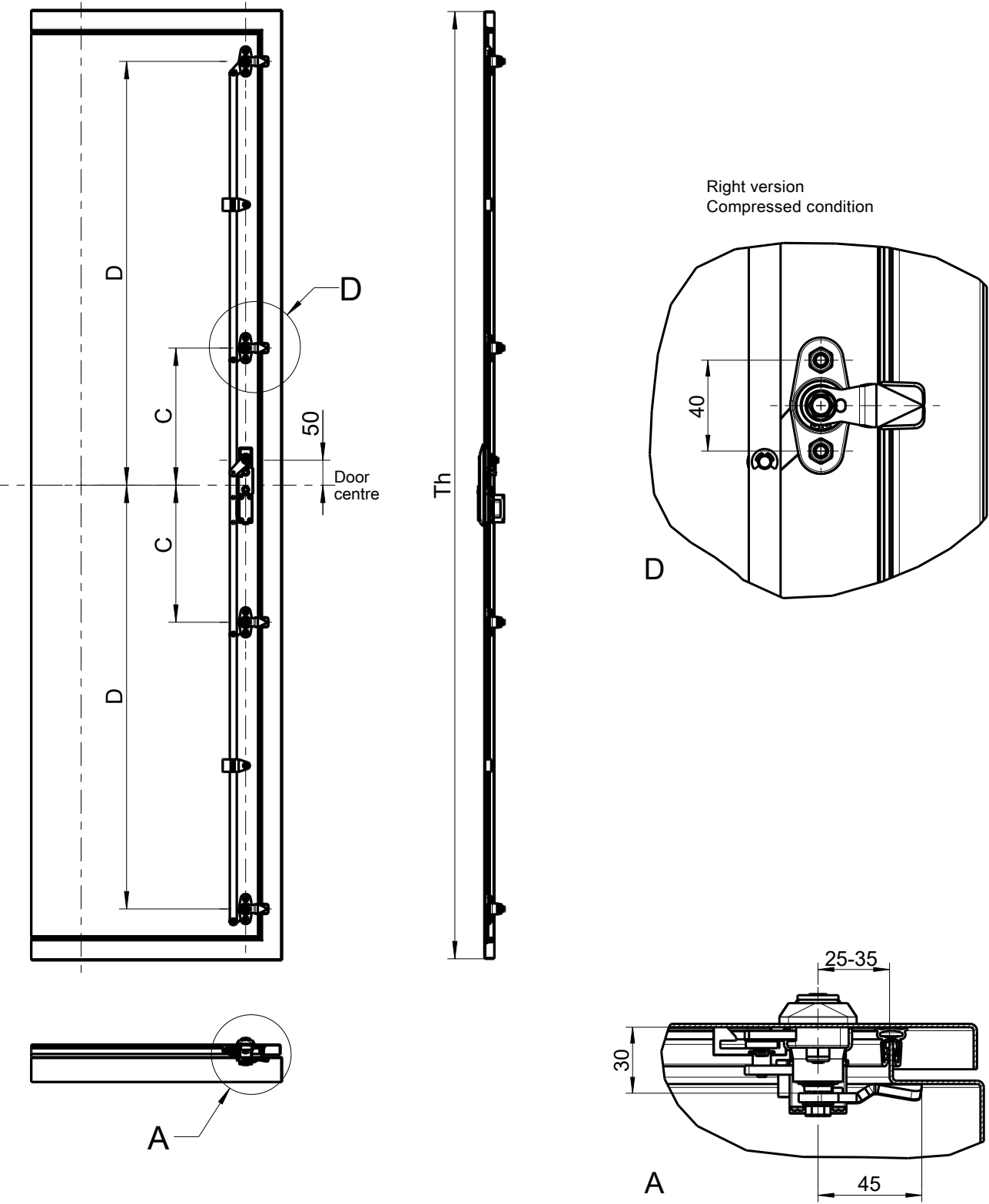
– Swinghandle	B2-200
	B2-210

Further parts see main catalogue

– Handle quarter turn, lockable	from 1B-560 to 1B-650
------------------------------------	--------------------------

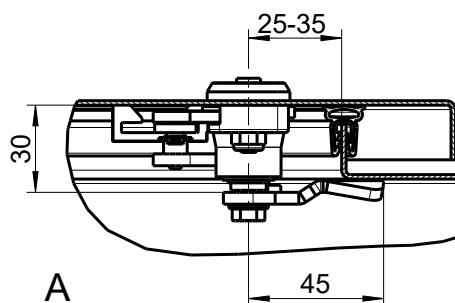
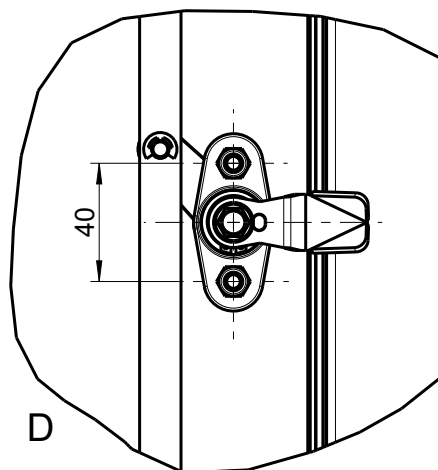
Connecting rod
for compression latch system

PROGRAM 1000, 1125, 1150





Left version
Compressed condition



Further parts see page

- System overview B2-100
- Locking point B2-120
- Rod control B2-130
- Rod guide B2-140
- Cam B2-150

Program 1000

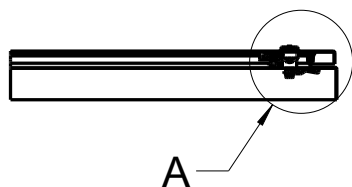
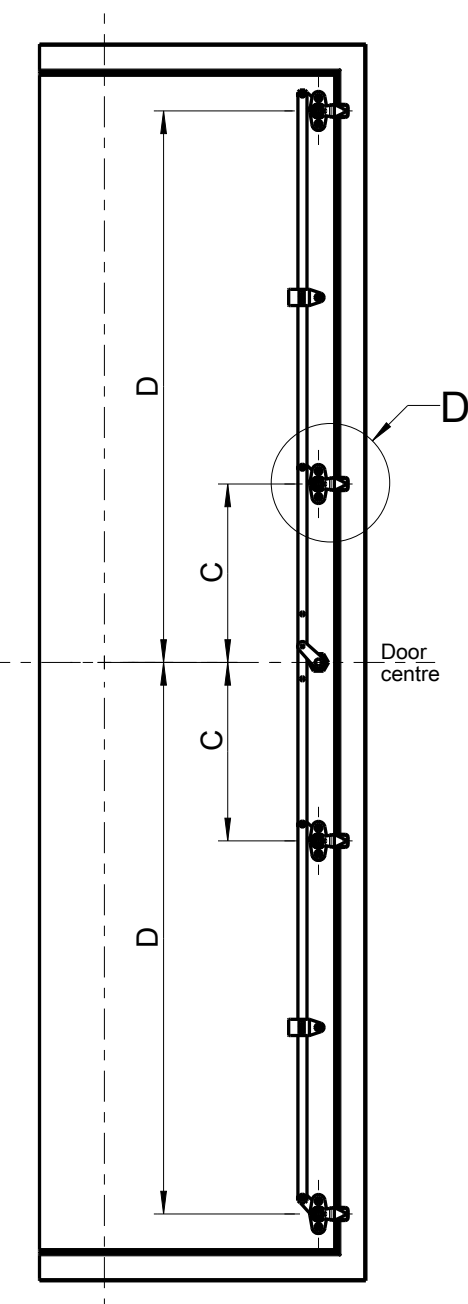
- Safety quarter turn B1-140
- B1-160

Program 1125, 1150

- Swinghandle B2-200
- B2-210

Further parts see main catalogue

- Handle quarter turn, lockable from 1B-560 to 1B-650

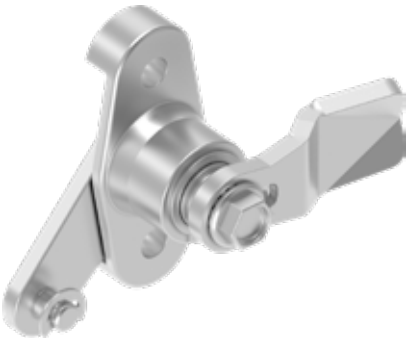


Connecting rod vertical (without corner guide)

Door height Th	Dim. C	Dim. D	
800-1200	–	300	on request
1200-1600	–	450	on request
1600-1900	275	700	on request
1900-2200	275	850	on request

Info
1 Locks and Latches
2 Locking systems
3 Hinges
4 Sealing Profiles and Edge Protection
5 Accessories
Index

Locking point
for compression latch system
PROGRAM 1000 - 1150



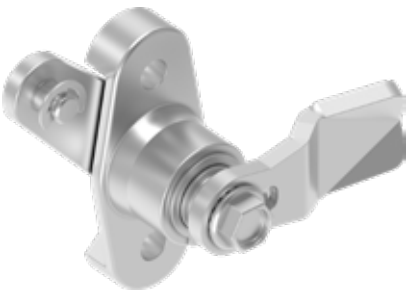
Right version
Compressed condition



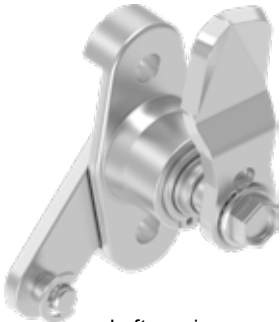
Right version
Open condition



Right version



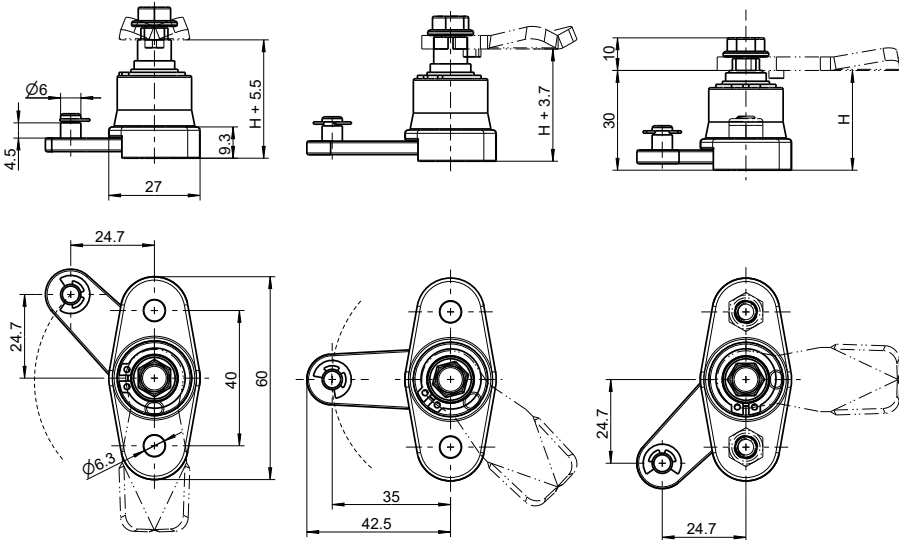
Left version
Compressed condition



Left version
Open condition



Left version



- Further parts see page**
- System overview B2-100
 - Connecting rod B2-110
 - Rod control B2-130
 - Rod guide B2-140
 - Cam B2-150

- Program 1000**
- Safety quarter turn B1-140
B1-160

- Program 1125, 1150**
- Swinghandle B2-210
B2-220

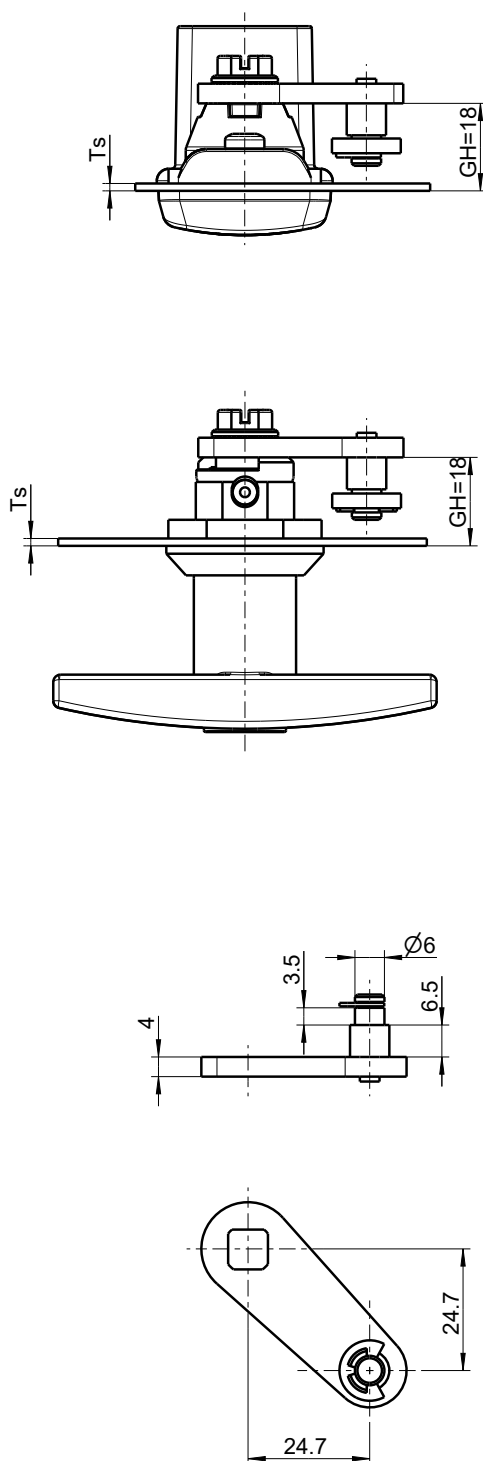
- Further parts see main catalogue**
- Handle quarter turn, lockable from 1B-560 to 1B-650

Locking point for weld stud M6x16 or blind rivet
Housing, insert and bush AISI 304 electropolished; locking shaft and pin AISI 316;
screw and circlip stainless steel; with spring

Right version (for quarter turn left version)	on request
Left version (for quarter turn right version)	1121-SU537-LIPC

Rod control for compression latch system

PROGRAM 1000 - 1150



Further parts see page

– System overview	B2-100
– Connecting rod	B2-110
– Locking point	B2-120
– Rod guide	B2-140
– Cam	B2-150

Program 1000

– Safety quarter turn	B1-140
	B1-160

Program 1125, 1150

– Swinghandle	B2-210
	B2-220

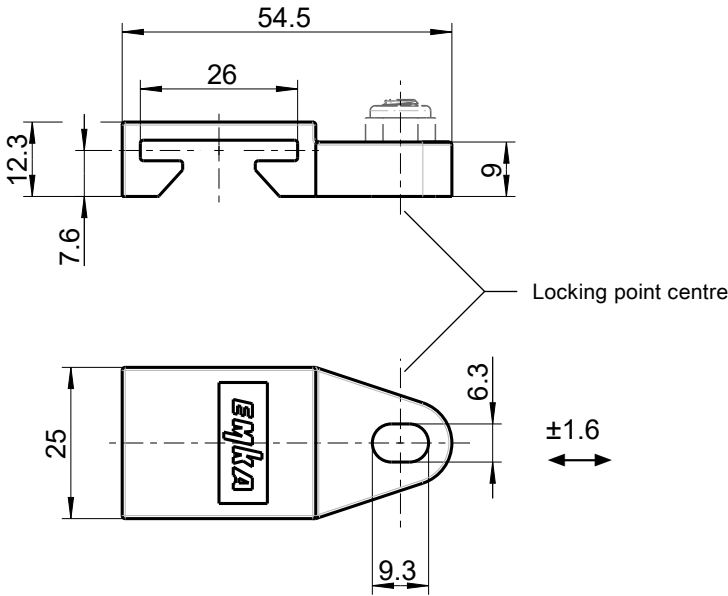
Further parts see main catalogue

– Handle quarter turn, lockable	from 1B-560 to 1B-650
------------------------------------	--------------------------

Rod control AISI 304

1000-SU1185

Rod guide
for compression latch system
PROGRAM 1000 - 1150



- Further parts see page**
- System overview B2-100
 - Connecting rod B2-110
 - Locking point B2-120
 - Rod control B2-130
 - Cam B2-150

- Program 1000**
- Safety quarter turn B1-140
 - B1-160

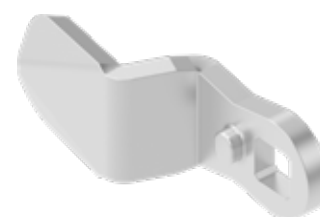
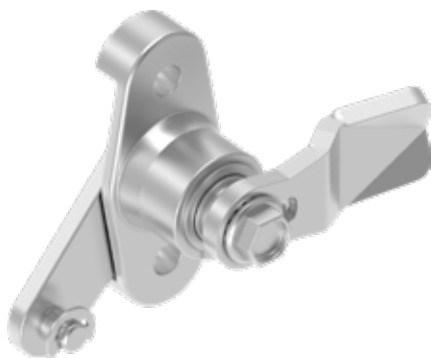
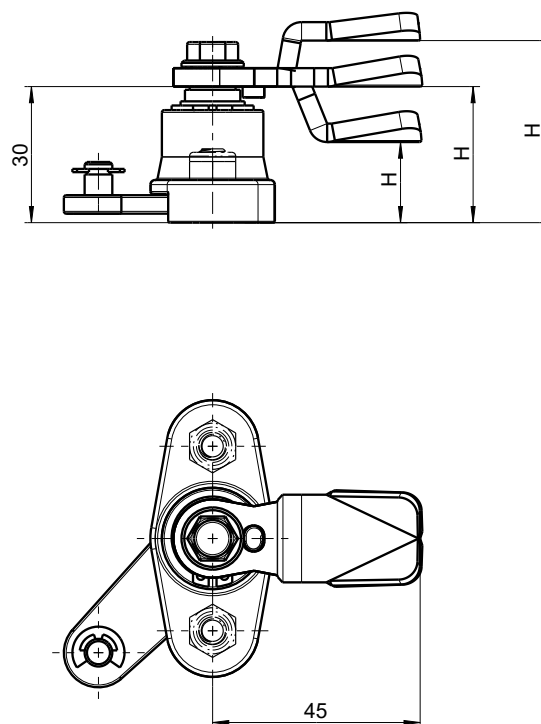
- Program 1125, 1150**
- Swinghandle B2-210
 - B2-220

- Further parts see main catalogue**
- Handle quarter turn, lockable from 1B-560 to 1B-650

Rod guide polyamide GF black	
for weld stud M6x16 or blind rivet	1121-169

Cam for compression latch system

PROGRAM 1000 - 1150



Cam with catch, material of choice			
H	m.s. zinc-plated	AISI 304	AISI 316
16	1000-112	-	-
18	1000-22	1000-221	1000-221-PD
20	1000-113	-	-
22	1000-21	1000-223	1000-223-PD
25	1000-20	-	-
26	1000-19	1000-225	1000-225-PD
28	1000-18	-	-
30	1000-17	1000-227	1000-227-PD
32	1000-16	1000-228	1000-228-PD
34	1000-15	1000-179	1000-179-PD
36	1000-14	1000-229	1000-229-PD
37	1000-27	-	-
38	1000-50	1000-230	1000-230-PD
40	1000-13	1000-180	1000-180-PD
42	1000-28	-	-
44	1000-26	-	-
46	1000-12	-	-
47	1000-11	-	-
48	1000-51	-	-
50	1000-52	-	-
52	1000-25	-	-
54	1000-53	-	-
56	1000-54	-	-
57	1000-10	-	-
59	1000-55	-	-
61	1000-56	-	-

Further parts see page

– System overview	B2-100
– Connecting rod	B2-110
– Locking point	B2-120
– Rod control	B2-130
– Rod guide	B2-140

Program 1000

– Safety quarter turn	B1-140
	B1-160

Program 1125, 1150

– Swinghandle	B2-200
	B2-210

Further parts see main catalogue

– Handle quarter turn, lockable	from 1B-560
	to 1B-650

Multi-point locking system with compression latch system

PROGRAM 1121

Closed condition



Compressed condition

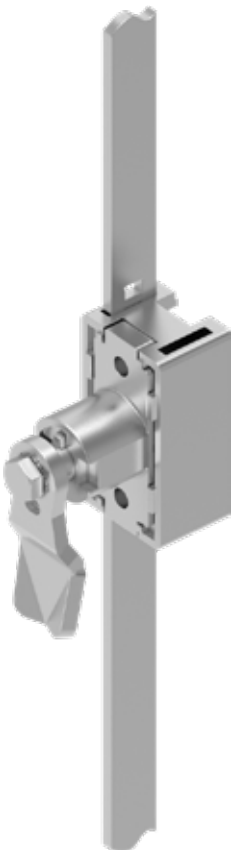


Actuation through lockable swinghandle

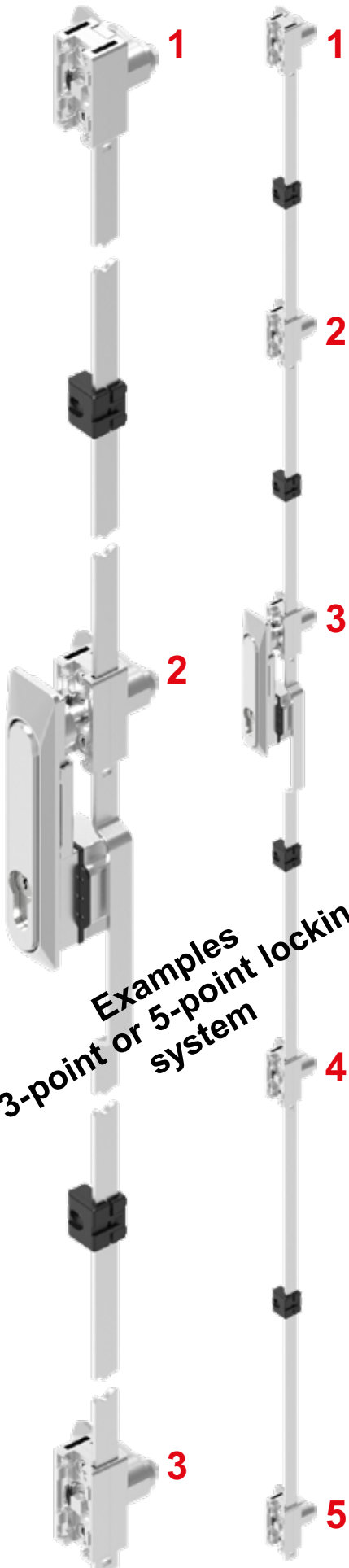


Flush housing with insert

Open condition

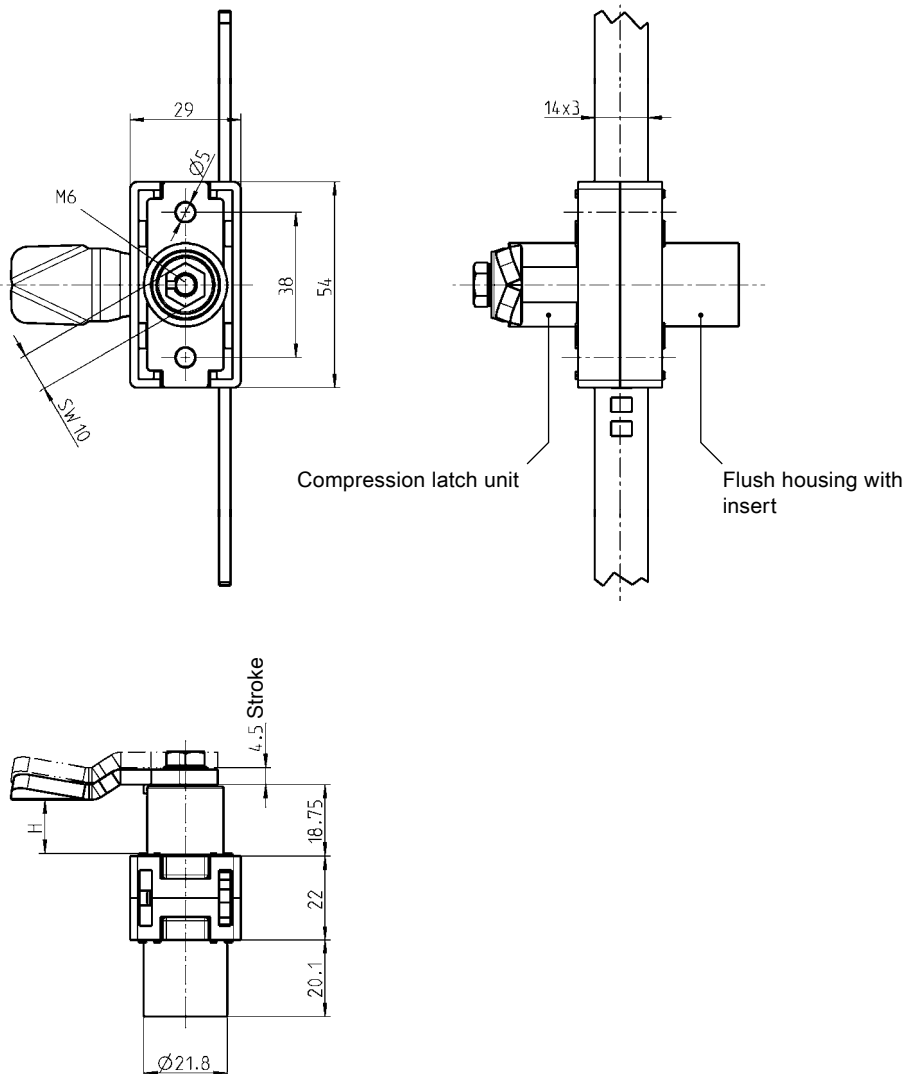


Examples
3-point or 5-point locking
system



The number and position of the locking points at customer's choice!

Detail of a locking unit

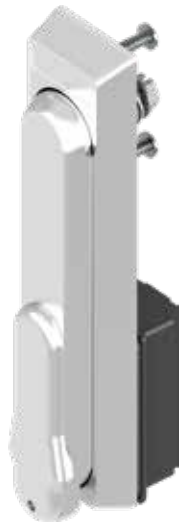
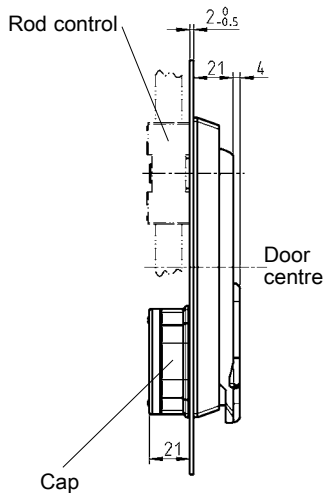
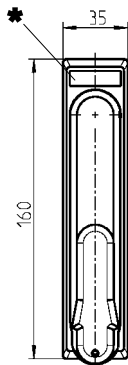
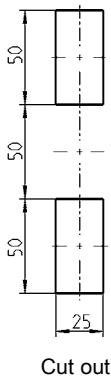
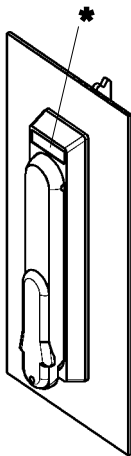


Product information:

- Each locking point has 4.5 mm of compression distance
- Multi-point locking system for combination with swinghandle for profile half cylinder to ensure high break-open security
- Variable spacing of the locking points for optimum distribution of the closing forces on the frame side
- Version completely stainless steel suitable for thick-walled fire protection applications with direct exposure of the flame to the multi-point locking system (room closure according to DIN 45545-3 E30)
- Easy to service, as up to 5 locking points can be operated simultaneously with just one drive
- A large selection of various versions in different numbers and positions of the locking points is already available. If the version you require is not included, we will manufacture your multi-point locking system to your dimensional specifications



Swinghandle for profile half cylinder 40 mm
PROGRAM 1125



* Logo recess: 27 x 8 x 0.5
Multicolour pad print possible

Swinghandle AISI 316 with cylinder cover for profile half cylinder 40 mm; shaft AISI 303; cap polyamide black, with seal		Further parts see main catalogue	
		– Rod control	
		3YA-120	
		– Profile half cylinder	
		3XB-120	

Swinghandle 1154 for profile half cylinder

PROGRAM 1150

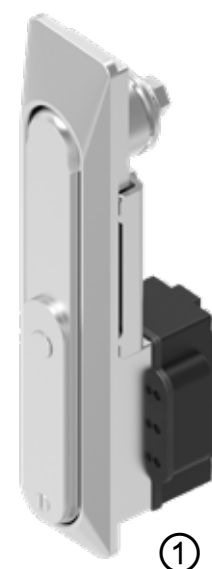
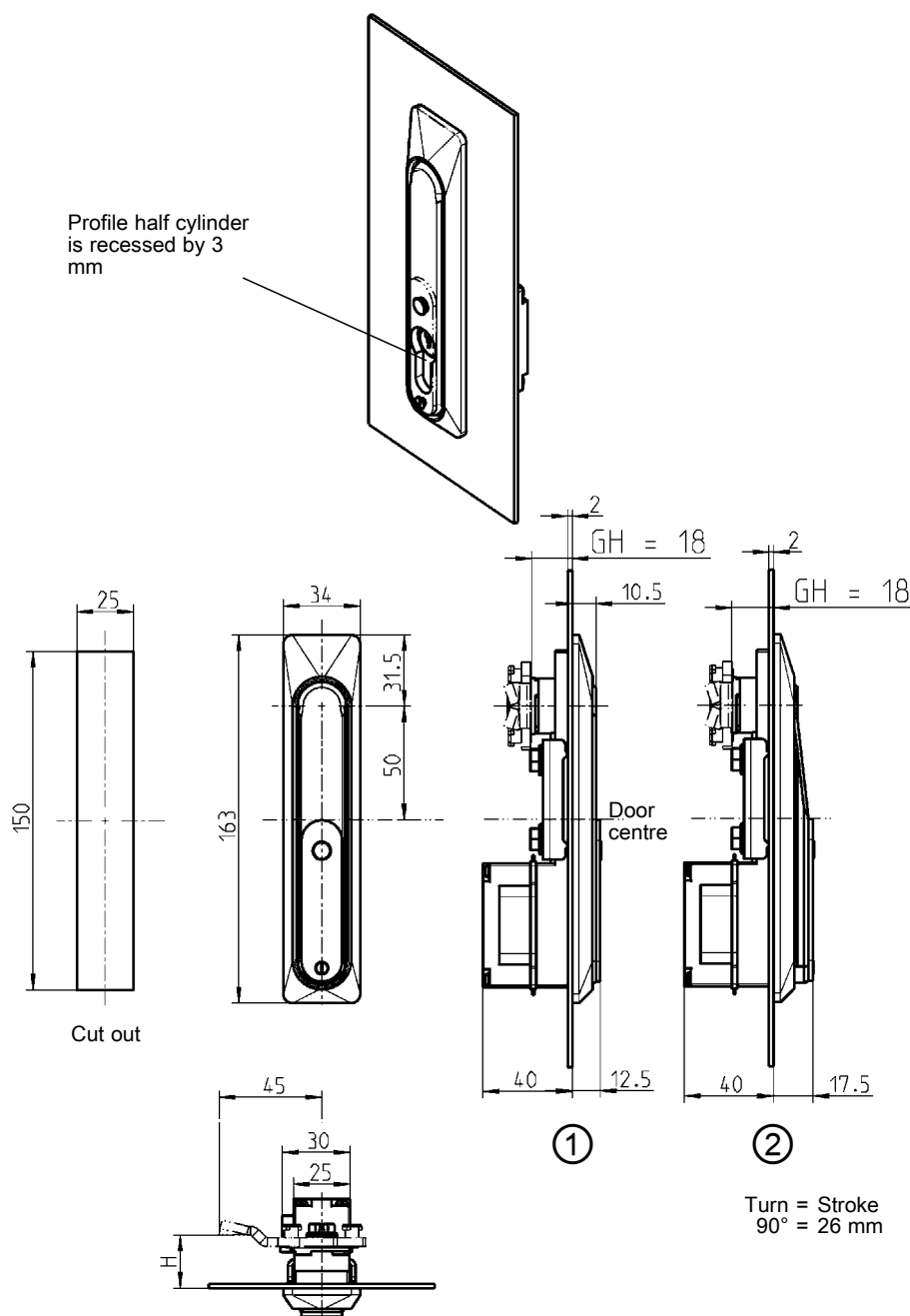
Resistance class:

RC2 DIN EN 1630, is achieved with the 1154-U2 swinghandle with profile half cylinder according to DIN EN 18252-BZ or DIN EN 1303 with resistance class 2 with drilling and pulling protection.

The profile half cylinder should be certified and monitored by PIV CERT or alternatively by a certifying body according to DIN EN ISO/IEC 17065.



for stainless steel version



Turn = Stroke
90° = 26 mm

**Swinghandle zinc die black powder-coated; cap polyamide black;
shaft zinc die zinc-plated; fixing material m.s. zinc-plated; with seal**

① for profile half cylinder 40 mm	1154-U1
② for profile half cylinder 45 mm	1154-U3

**Swinghandle AISI 316; shaft AISI 303; cap polyamide black;
fixing material stainless steel; with seal**

① for profile half cylinder 40 mm; with RC2	1154-U2
Fixing material cap AISI 316	1154-05-PH

Suitable for profile half cylinder
(length A = 30 or A = 35)
or DIN 18252 (EN 1303)

Further parts see page
– Cams (GH = 18)

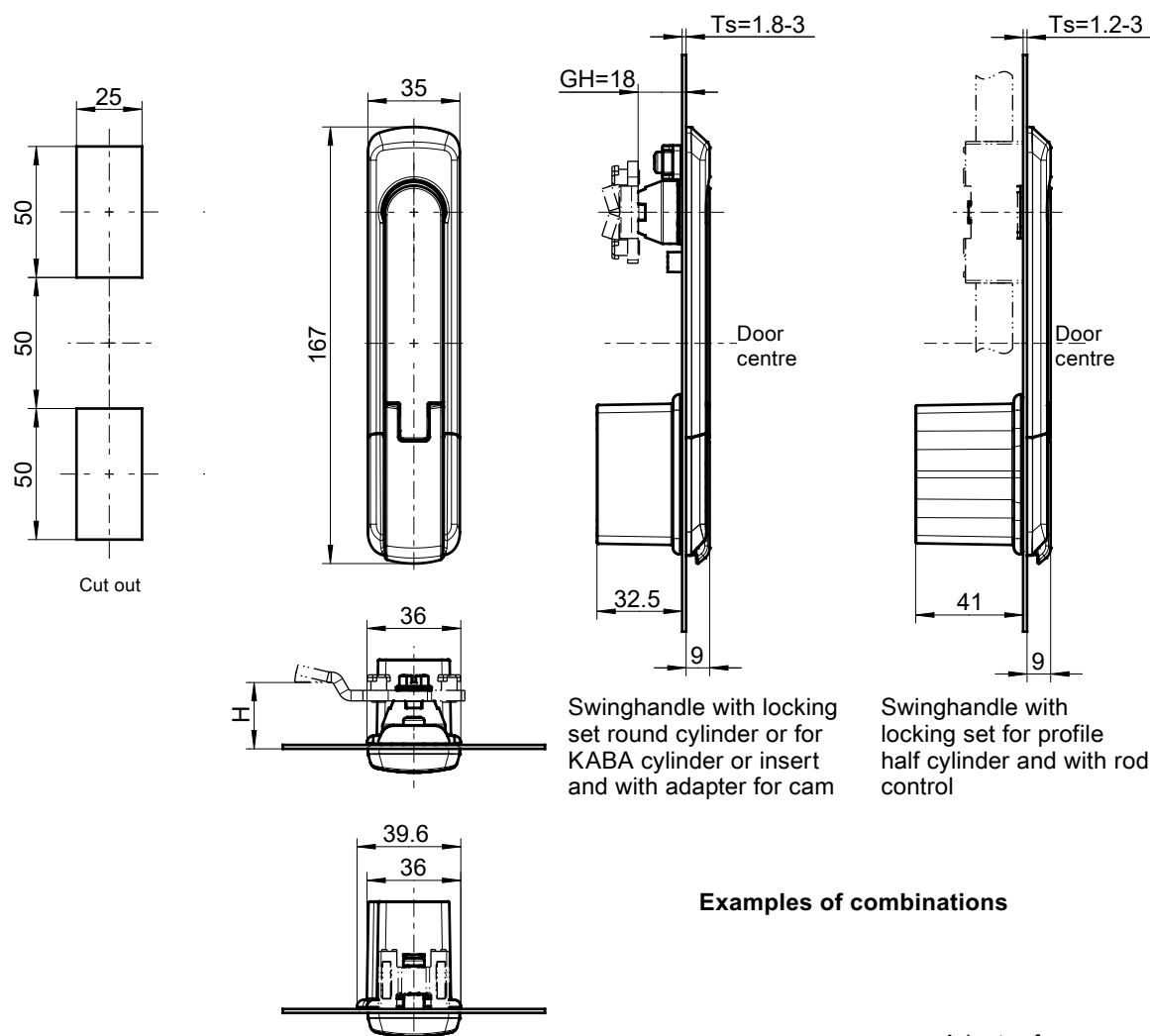
B1-430

Further parts see main catalogue
– Profile half cylinder

3XB-120

Flat swinghandle with locking set

PROGRAM 2225



Examples of combinations

Adapter for cam 2225-U101, order separately



Customer solution powder-coated in RAL 9006 (other colours on request) 2225-U1-BK



Easy exchange of the locking sets
By removing the two lower screws,
the locking set can be easily removed
to the front.



Product benefits

- Flat design
- Easy exchangeable locking unit inserts (locking sets)
- Suitable for standard cut out
- Pre-assembled swinghandle and dish
- Permanent magnet holds the cylinder cover
- Integrated scratch protection prevents surface damage (handle / dish)
- Swinghandle, locking sets and adapter for cam made of zinc die
- Patented

Swinghandle for locking set

Handle, dish and cylinder cover zinc die black powder coated;
pin AISI 303; hook zinc die zinc plated; circlip m.s. zinc plated;
shaft AISI 303; fixing material m.s. zinc plated; with spring and seal

Please order locking set separately

2225-U1

Locking set with cap for swinghandle 2225-U1

Housing and cap zinc die black powder coated;
permanent magnet; fixing material m.s. zinc plated; with spring and seal

for 40 mm profile half cylinder (A = 30 mm)

2225-U11

Round cylinder keyed EK 333

Round cylinder zinc die with stainless steel cap and dust cap.
Each round cylinder has one silver steel key with polyamide grip GF black.

2225-U48

Round cylinder keyed different

Round cylinder zinc die with stainless steel cap and dust cap.
Each round cylinder has one silver steel key with polyamide grip GF black.

2225-U49

for KABA cylinder type 1036 (provided by customer)

2225-U54

Double bit 3; Zinc die chrome-plated

2225-U50

Push button

2225-U57

Insert railway; Zinc die chrome-plated

2225-U60

Adapter for cam

90° Stopper zinc die zinc-plated; bridge AISI 316; fixing material m.s. zinc-plated

2225-U101



Multicolour pad printing
possible

Further parts see page

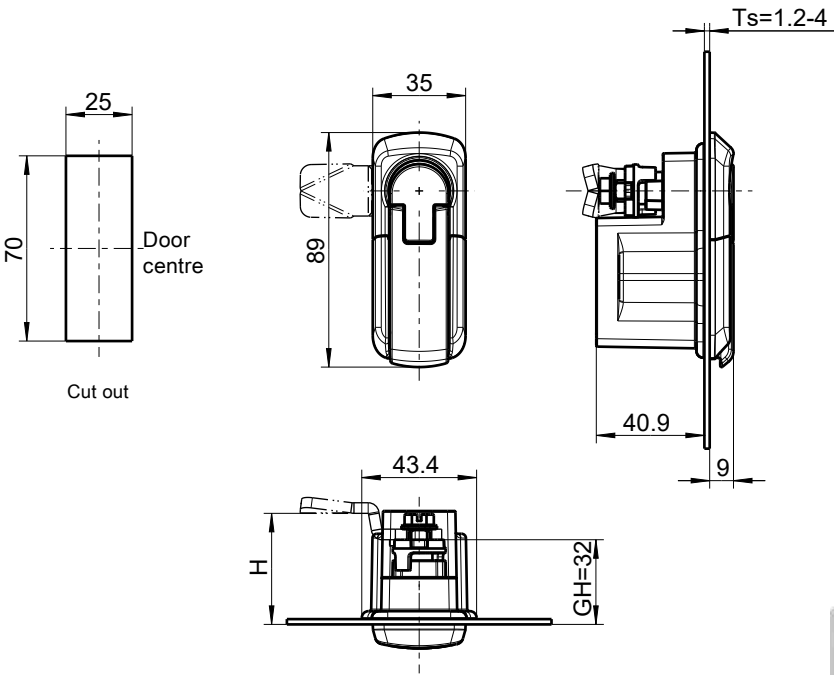
– Cams (for adapter) B1-430

Further parts see main catalogue

– Profile half cylinder 3XB-320
– Rod control 3YA-110
3YA-120
3YA-140

– Cam for rod control
(3-point latch system) 3YA-840

Flat swinghandle short with cap for locking set
PROGRAM 2225





Easy exchange of the locking sets
By removing the two lower screws,
the locking set can be easily removed
to the front.



Product benefits

- Flat design
- Easy exchangeable locking unit inserts (locking sets)
- Suitable for standard cut out
- Pre-assembled swinghandle and dish
- Permanent magnet holds the cylinder cover
- Integrated scratch protection prevents surface damage (handle / dish)
- Swinghandle, locking sets, cap and adapter for cam made of zinc die
- Patented

Swinghandle and cap for locking set and cam

Handle, dish and cylinder cover zinc die black powder-coated;
pin AISI 303; hook zinc die zinc-plated; circlip m.s. zinc-plated;
shaft AISI 303; with spring and seal

Cap and adapter zinc die zinc-plated; fixing material and
locking screw m.s. zinc-plated; with foamed seal

Please order locking set separately

2225-U2

Locking set (for short swinghandle)

Housing zinc die black powder-coated; permanent magnet;
fixing material m.s. zinc-plated; with spring and seal

for 40 mm profile half cylinder (A = 30 mm)

2225-U11-01

Round cylinder keyed EK 333

Round cylinder zinc die with stainless steel cap and dust cap.
Each round cylinder has one silver steel key with polyamide grip GF black.

2225-U48-01

Round cylinder keyed different

Round cylinder zinc die with stainless steel cap and dust cap.
Each round cylinder has one silver steel key with polyamide grip GF black.

2225-U49-01

for KABA cylinder type 1036 (provided by customer)

2225-U54-01

Double bit 3; Zinc die chrome-plated

2225-U50-01

Push button

2225-U57-01

Insert railway; Zinc die chrome-plated

2225-U60-01

Multicolour pad printing possible

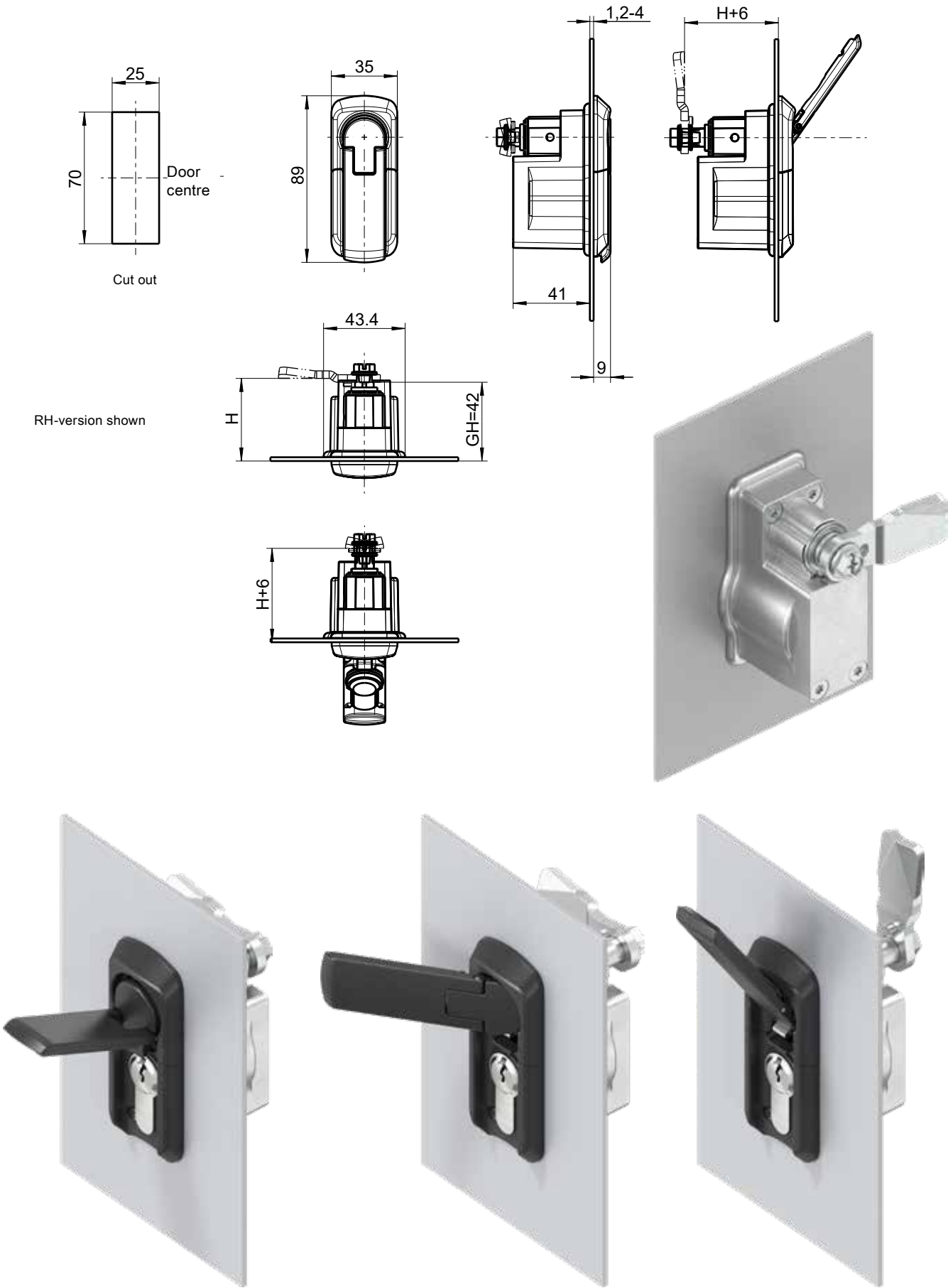
Further door thicknesses
on request

Further parts see page
– Cams (GH = 32) B1-430

Further parts see main catalogue
– Profile half cylinder 3XB-320

Flat swinghandle short with compression function for locking set

PROGRAM 2225





Easy exchange of the locking sets
By removing the two lower screws,
the locking set can be easily removed
to the front.



Product benefits

- Flat design
- Easy exchangeable locking unit inserts (locking sets)
- Suitable for standard cut out
- Pre-assembled swinghandle and dish
- Permanent magnet holds the cylinder cover
- Integrated scratch protection prevents surface damage (handle / dish)
- Swinghandle, locking sets, cap and locking shaft made of zinc die
- Patented

Swinghandle with cap with compression function for locking set and cam

Handle, dish and cylinder cover zinc die black powder-coated;
pin AISI 303; hook zinc die zinc-plated; circlip m.s. zinc-plated;
shaft AISI 303; with spring and seal

Cap and locking shaft zinc die zinc-plated; fixing material and
locking screw m.s. zinc-plated; with foamed seal

for door version

Left

Right

Please order locking set separately

2225-U3-LI

2225-U3-RE

Locking set (for short swinghandle)

Housing zinc die black powder-coated; permanent magnet;
fixing material m.s. zinc-plated; with spring and seal

for 40 mm profile half cylinder (A = 30 mm)

2225-U11-01

Round cylinder keyed EK 333

Round cylinder zinc die with stainless steel cap and dust cap.
Each round cylinder has one silver steel key with polyamide
grip GF black.

2225-U48-01

Round cylinder keyed different

Round cylinder zinc die with stainless steel cap and dust cap.
Each round cylinder has one silver steel key with polyamide
grip GF black.

2225-U49-01

for KABA cylinder type 1036 (provided by customer)

2225-U54-01

Double bit 3; Zinc die chrome-plated

2225-U50-01

Push button

2225-U57-01

Insert railway; Zinc die chrome-plated

2225-U60-01

Multicolour pad printing
possible

Further door thicknesses
on request

Further parts see page
– Cams (GH = 42)

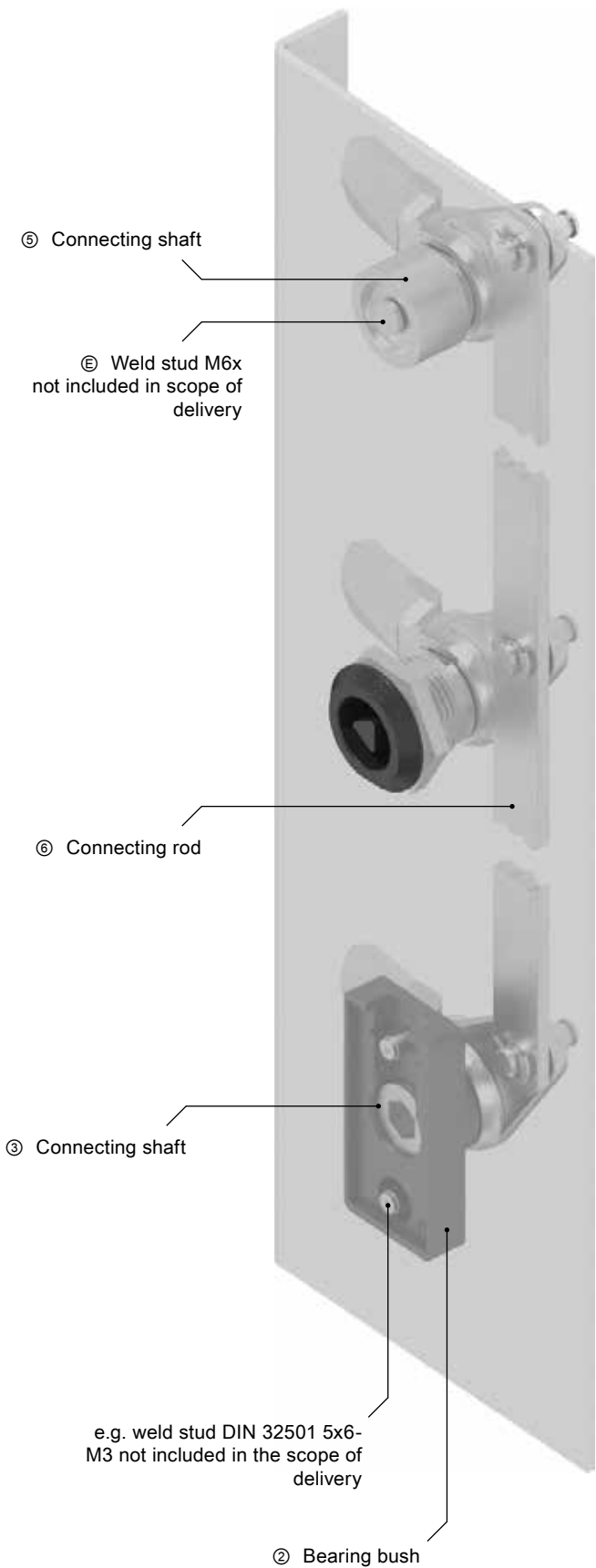
B1-430

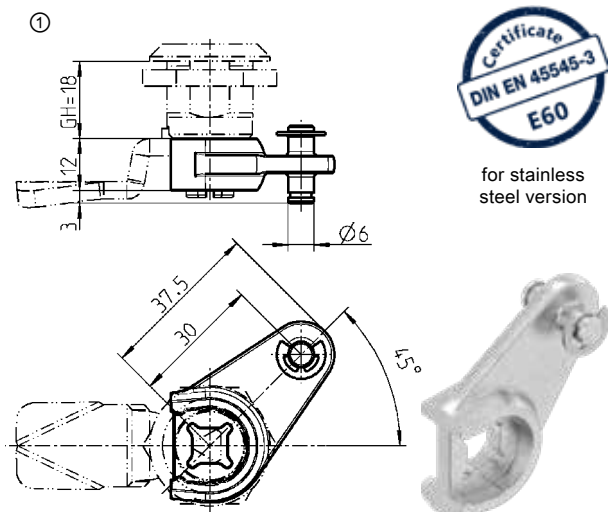
Further parts see main catalogue
– Profile half cylinder 3XB-320

Rod control for multi-point locking

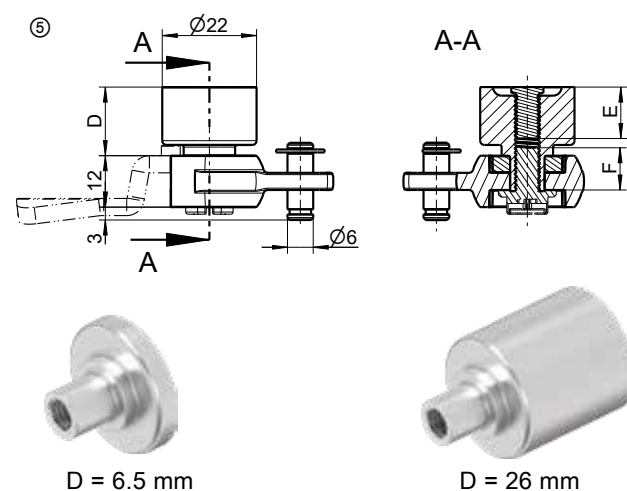
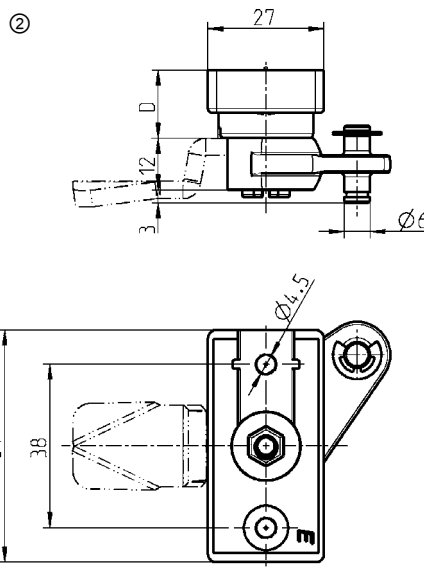
PROGRAM 1000

Example with one quarter turn, one bearing bush and one connecting shaft



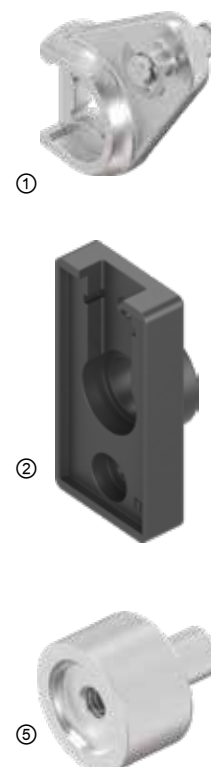
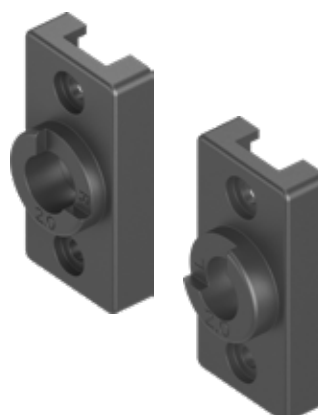


for stainless steel version



D = 6.5 mm

D = 26 mm



Rod control zinc die zinc plated or AISI 316; circlip m.s. zinc-plated or stainless steel

Zinc die zinc-plated	1000-U874
AISI 316	1000-U874-VA

② Bearing bush Polyamide black or AISI 316

Ts	D	Stopper left Polyamide GF black	Stopper right Polyamide GF black	Bearing bush Polyamide GF black	without stopper AISI 316
1.5	16.5	1125-83-15	1125-84-15	additional Ts gauges available with and without stopper	on request
2.0	16.0	1125-83-20	1125-84-20		1125-81-20PH

③ Connecting shaft zinc-die

1000-556-KA

④ Locking screw M6x10 m.s. zinc-plated for connecting shaft zinc die ③

1000-277-01JB

⑤ Connecting shaft AISI 303 and locking screw m.s. zinc-plated

D	E	F = Locking screw m.s. zinc-plated	
6.5	M6x8	M6x6 = 1000-277-02JB	1000-S1839-10
12	M6x8	M6x10 = 1000-277-01JB	1000-S1839-03
16	M6x12	M6x10 = 1000-277-01JB	1000-S1839-12
26	M6x12 / M6x16	M6x10 = 1000-277-01JB	1000-S1839-14

⑥ Connecting rod m.s. zinc-plated

Lengths between 100 to 1,200 mm available

1000-608-LJB

Note:

Combined with a safety quarter turn, e.g. 1000-U817-231A, the application fulfills the standard of DIN EN 61373 (shock and vibration resistance)

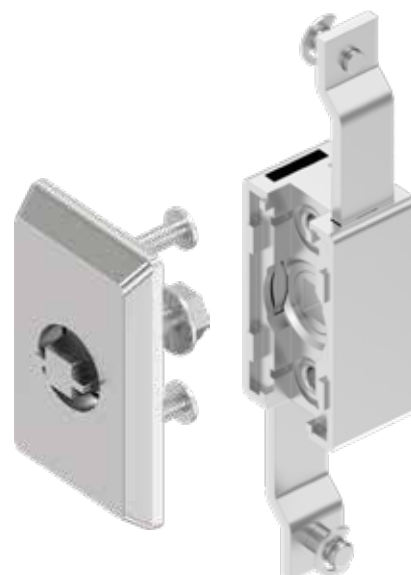
Note:

When using the rod control for multi-point locking, the screw-in depth of the screw is reduced by 4 mm

Further parts see page

– Cam (type 1) B1-430
– Quarter turn from B1-120 to B1-205
– Safety quarter turn from B1-140 to B1-160

Examples of customer solutions



Notes



You will find many more **locking systems** in the [interactive EMKA main catalogue](#) as well as in the [online product database](#).

[View interactive EMKA main catalogue](#)

[View online product database](#)



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B1-205	Compression latches
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B1-600	Examples of customer solutions



2 Locking Systems

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B2-200	Swinghandles
B2-310	Rod control with multi-point locking
B2-410	Examples of customer solutions



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B3-410	Pin hinges



4 Sealing Profiles and Edge Protection

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B4-510	Sealing profile made of fire protection material, self-adhesive
B4-610	Clip-on profiles made of fire protection material
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5 Accessories

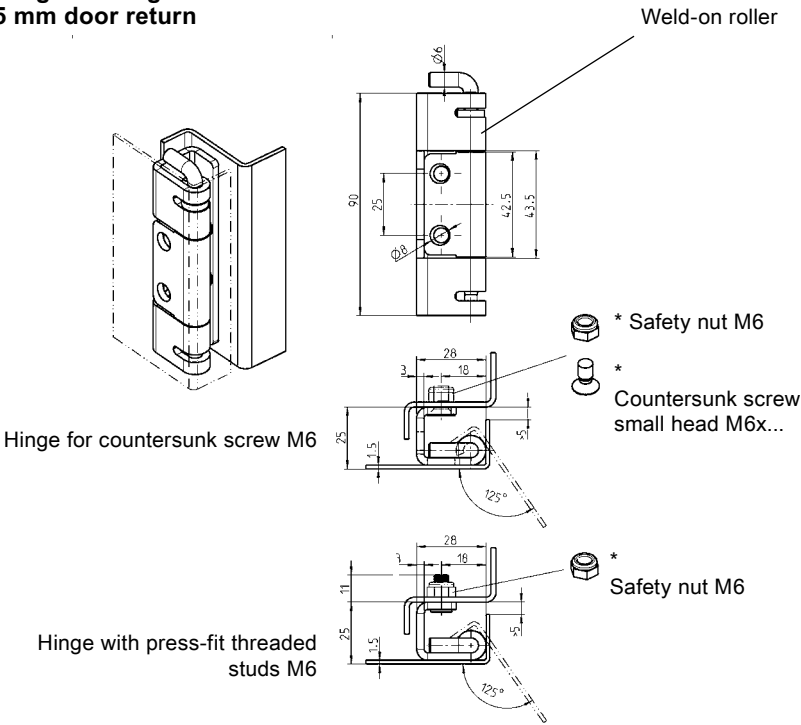
B5-210	Emergency hammer
B5-310	Tail hook / Cover stay
B5-410	Dust cap for high-speed trains

Article number index

125° Hinge with captive pin
PROGRAM 1031



125° Hinge for single cabinets
for 25 mm door return

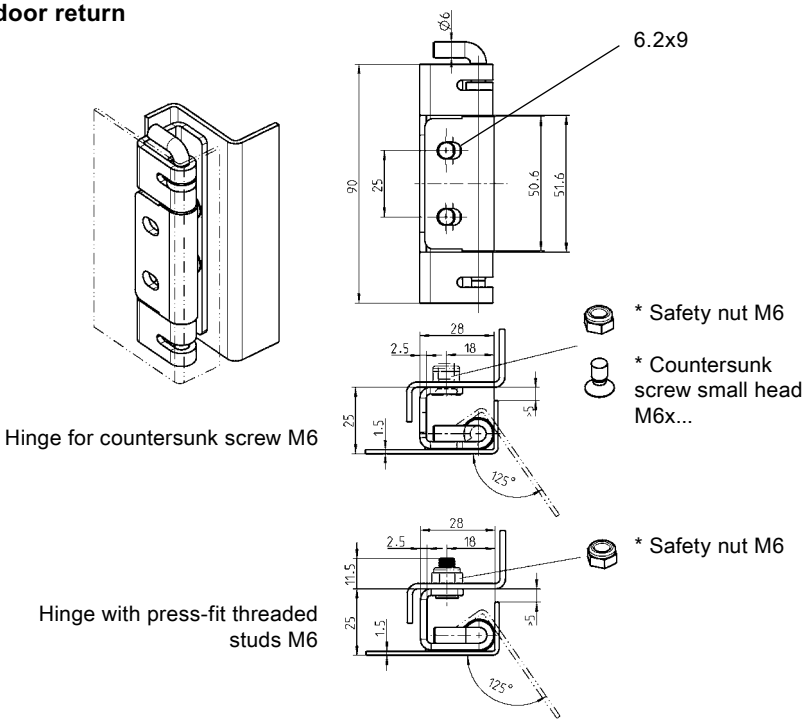


* not included in the scope of delivery

Small head = DIN ISO 2009, 2010, 7046-1, 7046-2, 7047

125° Hinge Bracket, pin and threaded studs m.s. zinc-plated; roller m.s. raw; pin clamping ring POM red		
for countersunk small head M6		1031-U12
with press-fit threaded studs M6x15		1031-U19

125° Hinge for single cabinets
for 25 mm door return



* not included in the scope of delivery

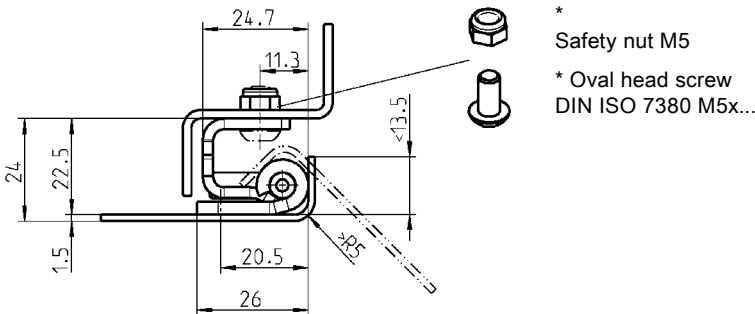
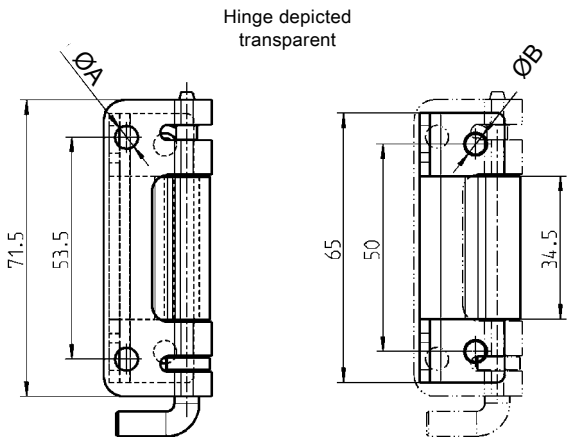
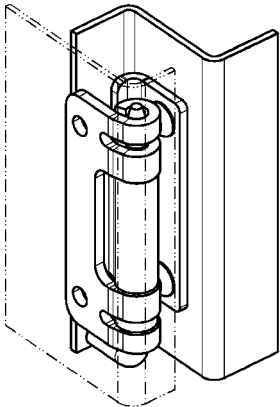
Small head = DIN ISO 2009, 2010, 7046-1, 7046-2, 7047

125° Hinge AISI 304 or AISI 316Ti Threaded studs stainless steel; pin clamping ring POM red		
AISI 304	for countersunk small head M6	1031-U13
AISI 316Ti	for countersunk small head M6	1031-U22
AISI 304	with press-fit threaded studs M6x15	1031-U20

135° Hinge with captive pin

PROGRAM 1031

135° Hinge for single cabinets
for 24 mm door return



- * Safety nut M5
- * Oval head screw DIN ISO 7380 M5x...

135° Hinge AISI 304
Pin AISI 303; shaft clamping ring POM red

Ø A = 5.5 mm, Ø B = 5.5 mm	1031-U15
Ø A = 6.8 mm, Ø B = 5.5 mm	1031-SU96
Ø A = 5.5 mm, Ø B = 9 mm	1031-SU80

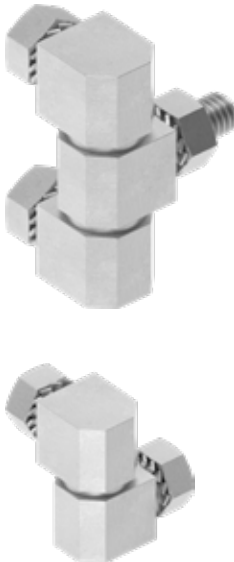
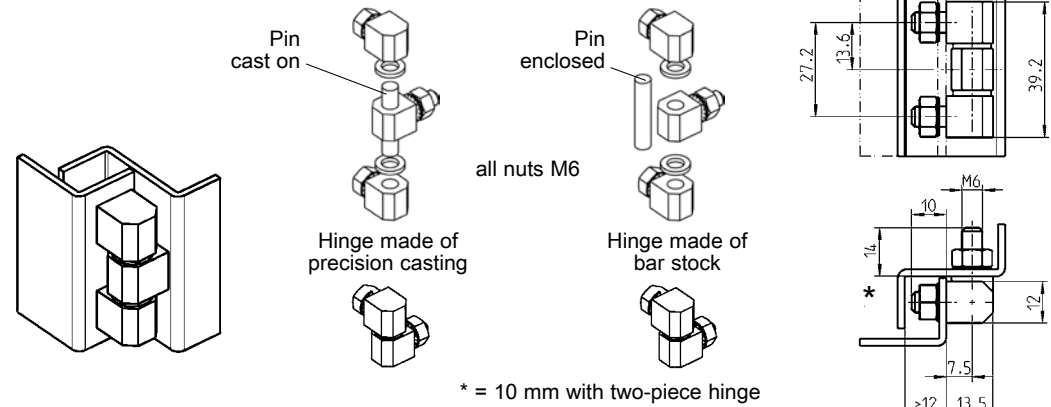
* not included in the scope of delivery

180° Screw-on hinge

PROGRAM 1055, 1039



180° Screw-on hinge

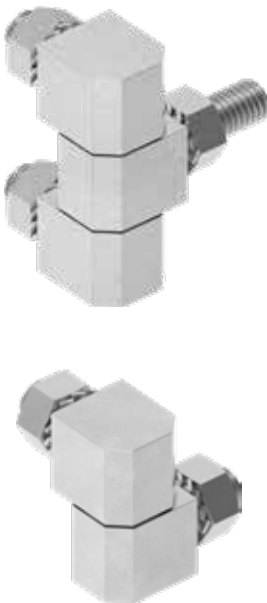
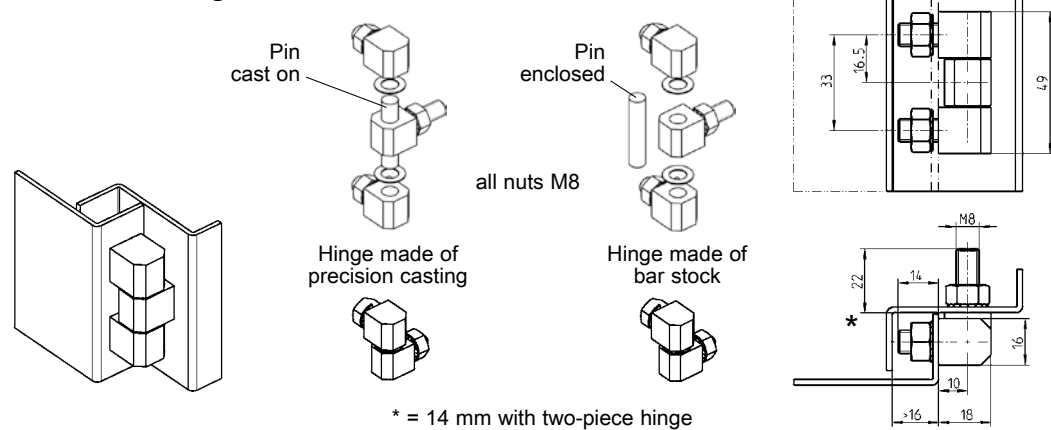


180° Screw-on hinge material and production process of choice

Washers, serrated washers and nuts material acc. to hinge version;
pin material according to hinge version and production process

three-piece Bar stock	Hinge, serrated washers and nuts m.s. zinc-plated; pin and washers brass nickel-plated	1055-U2
	Hinge AISI 303; pin, washers, serrated washers and nuts V2A	1055-U6
	Hinge AISI 316; pin, washers, serrated washers and nuts V4A	1055-U8
three-piece Precision casting	Hinge, serrated washers and nuts m.s. zinc-pl.; washers brass nickel-pl.	1055-U2-01
	Hinge AISI 304; washers, serrated washers and nuts V2A	1055-U6-01
	Hinge AISI 316; washers, serrated washer and nuts V4A	1055-U8-01
two-piece Full material	Hinge, serrated washers and nuts m.s. zinc-pl.; pin and washer brass nickel-pl.	1055-U5
two-piece Precision casting	Hinge, serrated washers and nuts m.s. zinc-pl.; washer brass nickel-pl.	1055-U5-01

180° Screw-on hinge

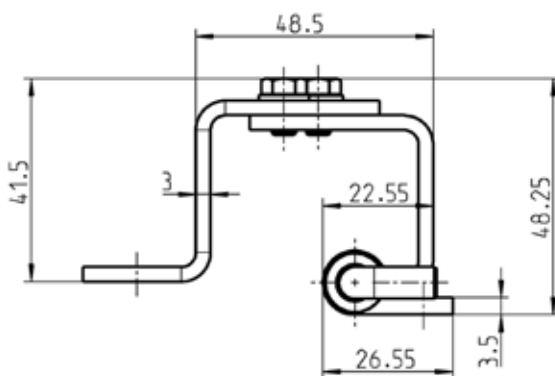
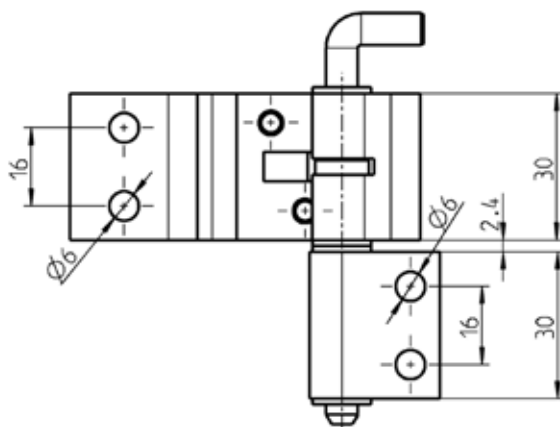
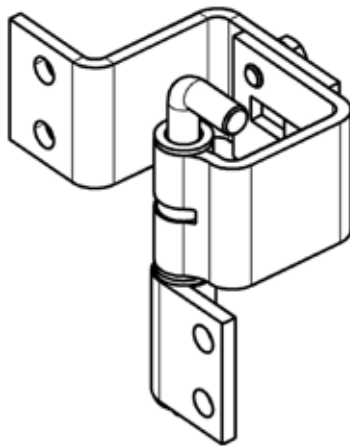


180° Screw-on hinge material and production process of choice

Washers, serrated washers and nuts material acc. to hinge version;
pin material according to hinge version and production process

three-piece Bar stock	Hinge, serrated washers and nuts m.s. zinc-plated; pin and washers brass nickel-plated	1039-U12
	Hinge AISI 303; pin, washers, serrated washers and nuts V2A	1039-U19
	Hinge AISI 316; pin, washers, serrated washers and nuts V4A	1039-U26
three-piece Precision casting	Hinge, serrated washers and nuts m.s. zinc-plated; washers brass nickel-plated	1039-U12-01
	Hinge AISI 304; washers, serrated washers and nuts V2A	1039-U19-01
	Hinge AISI 316; washers, serrated washer and nuts V4A	1039-U26-01
two-piece Full material	Hinge, serrated washers and nuts m.s. zinc-plated; pin and washer brass nickel-plated	1039-U17
two-piece Precision casting	Hinge, serrated washers and nuts m.s. zinc-plated; washer brass nickel-plated	1039-U17-01

PROGRAM 1006



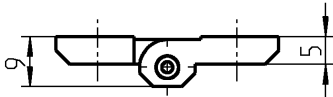
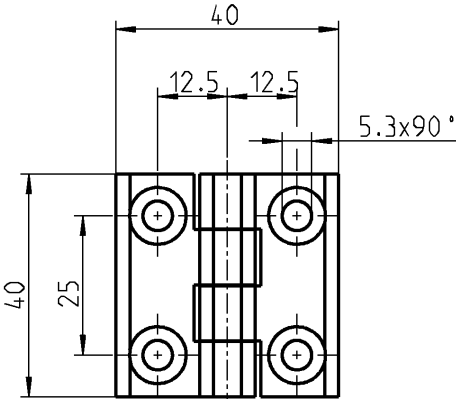
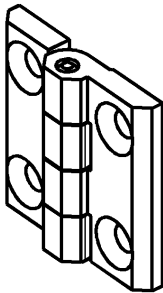
Concealed hinge AISI 304 and AISI 303
Bush polyamide nature, shaft clamping ring POM red

1006-SU1-PC

180° Hinge
PROGRAM 1056

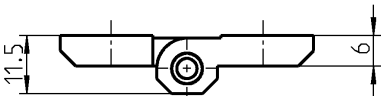
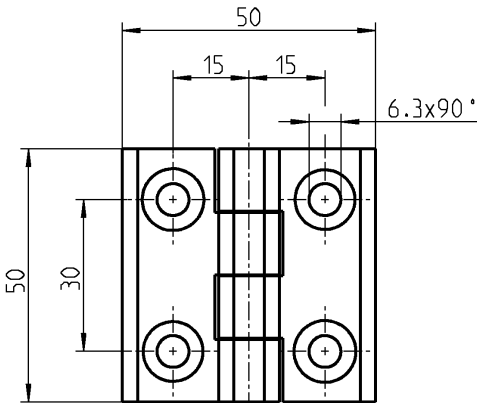
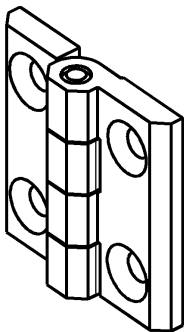


180° Hinge for in-line cabinets with double door



180° Hinge AISI 316 right and left version	
for countersunk screws M5	1056-U5-PH

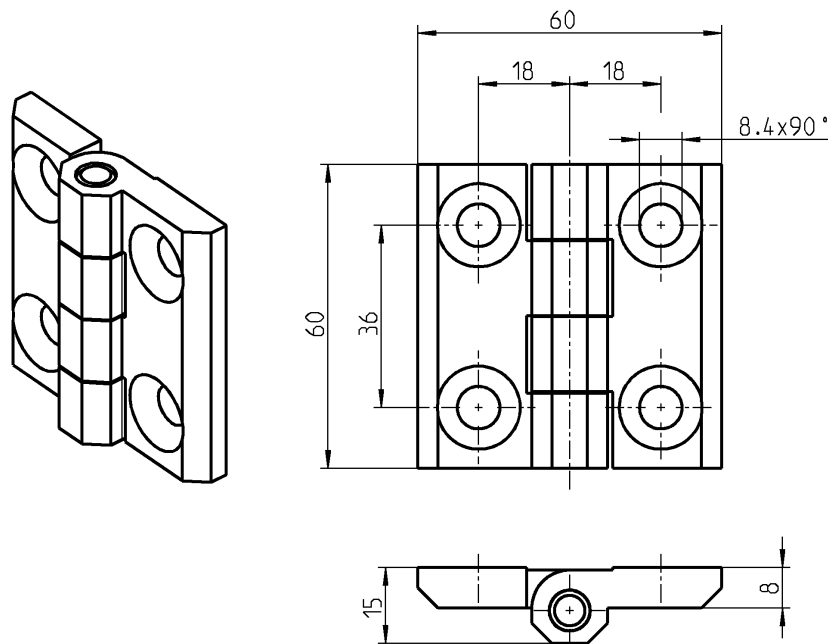
180° Hinge for in-line cabinets with double door



180° Hinge AISI 316 right and left version	
for countersunk screws M6	1056-U9-PH

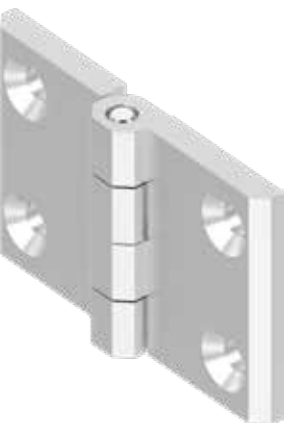
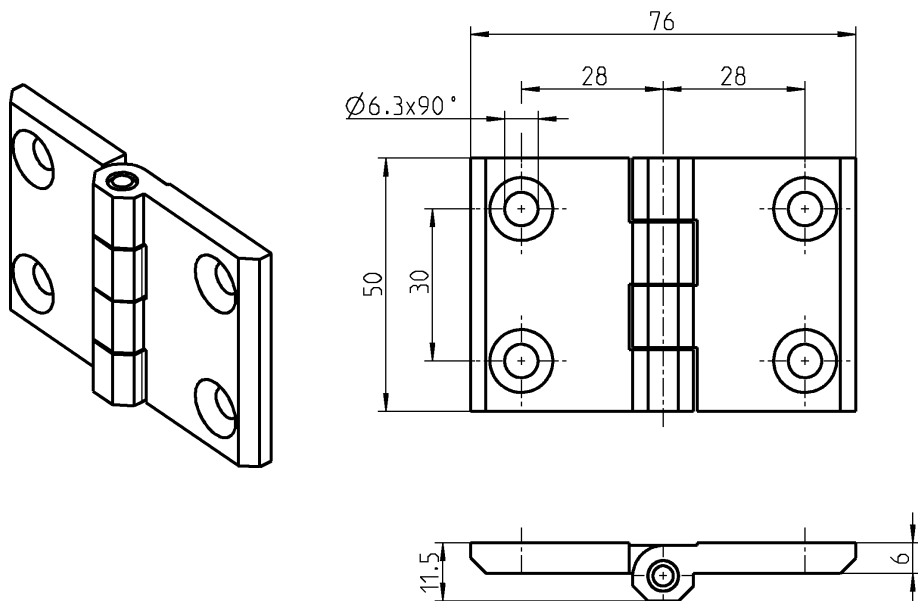
180° and 270° Hinge
PROGRAM 1056

180° Hinge for in-line cabinets with double door



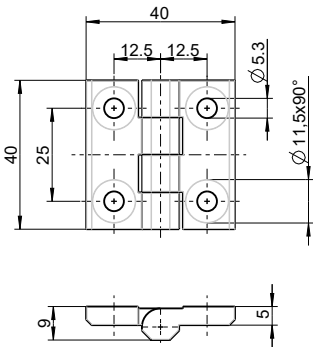
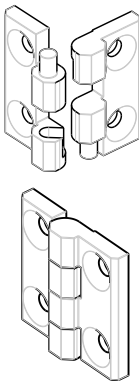
180° Hinge AISI 316 right and left version	
for countersunk screws M8	1056-U13-PH

270° Hinge for in-line cabinets with double door



270° Hinge AISI 316 RH and LH version	
for countersunk screws M6	1056-U17-PH

180° Hinge without hinge pin
PROGRAM 1056

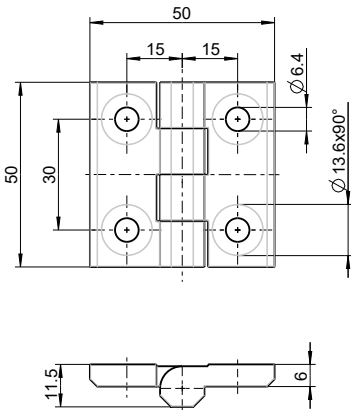
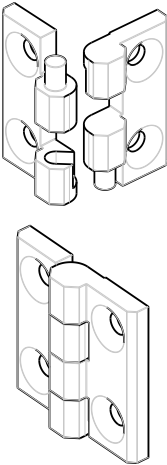


Polyamide GF black



Zinc die chrome-plated

180° Screw-on hinge without hinge pin - size 40x40 mm	
Screw-on hinge polyamide GF, zinc die, aluminium or stainless steel	
Surface or colour of choice	
Polyamide GF black (further colours on request), unassembled	1056-U77-01
Zinc die black powder-coated	1056-U75-02
Zinc die chrome-plated	1056-U75-01
Aluminium anodized	1056-U78-01
Aluminium black powder-coated	1056-U78-02
Aluminium raw	1056-U78-03
AISI 316 polished	1056-U80-01
AISI 316 bright polished	1056-U80-02



Aluminium anodized

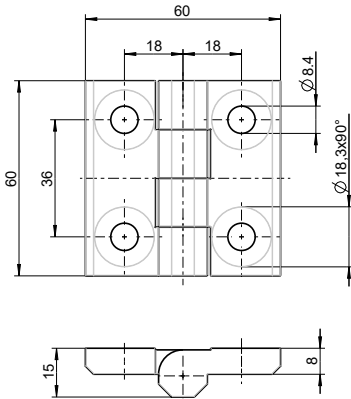
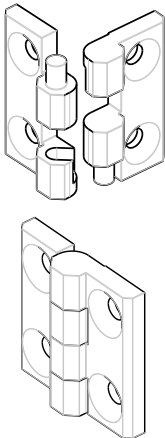


AISI 316 bright polished

180° Screw-on hinge without hinge pin - size 50x50 mm	
Screw-on hinge polyamide GF, zinc die, aluminium or stainless steel	
Surface or colour of choice	
Polyamide GF black (further colours on request), unassembled	1056-U84-01
Zinc die black powder-coated	1056-U82-02
Zinc die chrome-plated	1056-U82-01
Aluminium anodized	1056-U85-01
Aluminium black powder-coated	1056-U85-02
Aluminium raw	1056-U85-03
AISI 316 polished	1056-U87-01
AISI 316 bright polished	1056-U87-02

180° Hinge without hinge pin

PROGRAM 1056



Zinc die black powder-coated

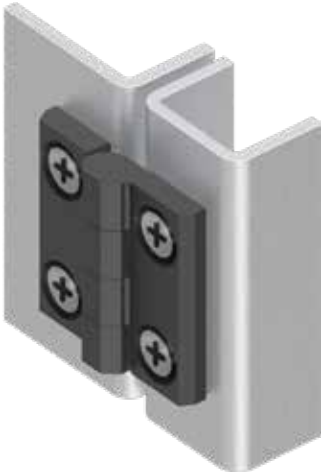
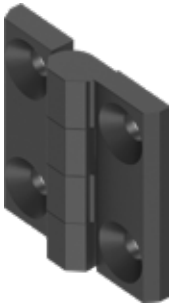


AISI 316 polished

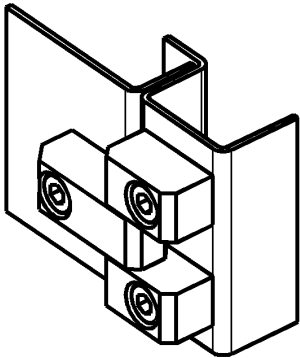
180° Screw-on hinge without hinge pin - size 60x60 mm	
Screw-on hinge polyamide GF, zinc die, aluminium or stainless steel	
Surface or colour of choice	
Polyamide GF black (further colours on request), unassembled	1056-U91-01
Zinc die black powder-coated	1056-U89-02
Zinc die chrome-plated	1056-U89-01
Aluminium anodized	1056-U92-01
Aluminium black powder-coated	1056-U92-02
Aluminium raw	1056-U92-03
AISI 316 polished	1056-U94-01
AISI 316 bright polished	1056-U94-02

Product features:

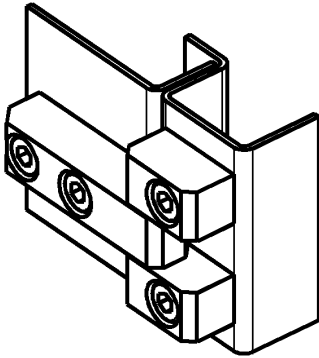
- 3 hinge sizes for countersunk screws M5 / M6 / M8
- 4 materials with different surface types
- Less expensive than the comparable 180° screw-on hinge with hinge pin



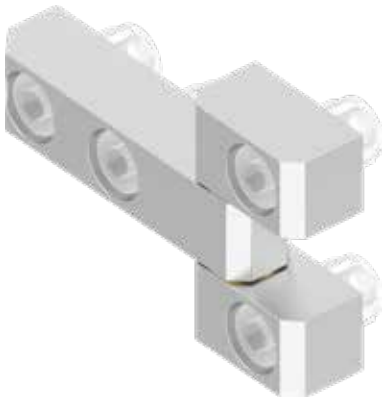
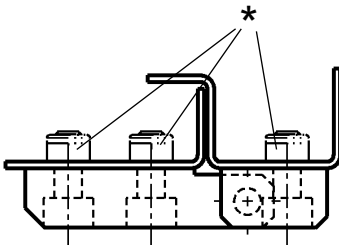
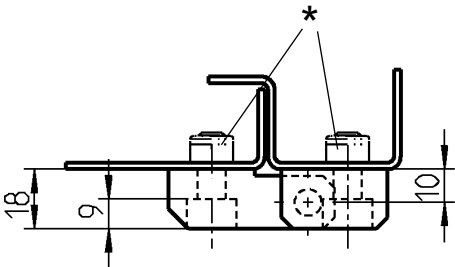
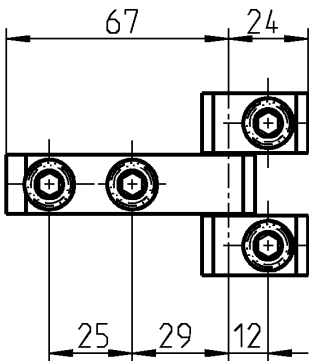
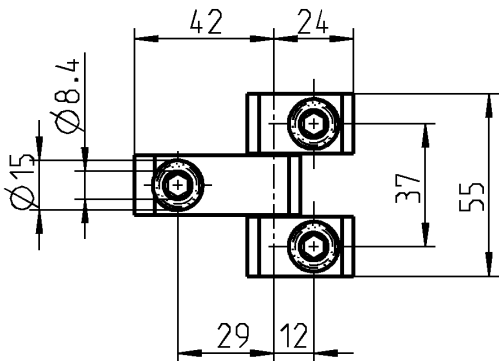
180° Hinge for in-line cabinets



Middle part short



Middle part long

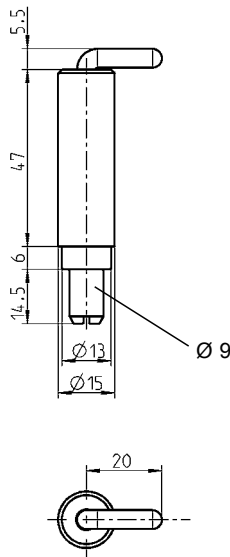
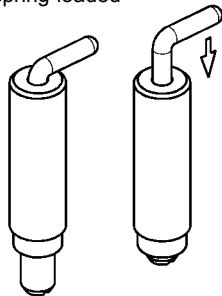


180° Hinge AISI 303; pin and washer brass nickel-plated	
Middle part short, right and left version	1039-U13-PF
Middle part long, right and left version	1039-U15-PF

* not included in the scope of delivery



spring-loaded

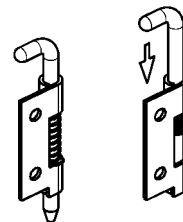
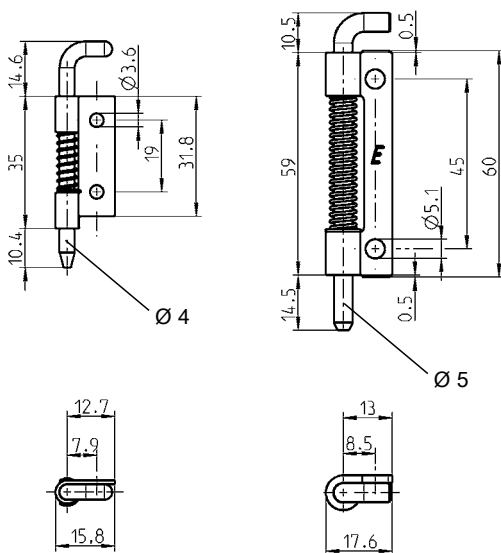


**Pin hinge m.s. zinc-plated; spring made of spring steel zinc-plated;
guide sleeve m.s. raw or AISI 304; pin AISI 303; spring stainless steel**

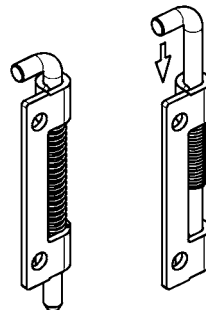
m.s.	1117-U1
AISI	1117-U1-PF



spring-loaded



Version A



Version B



Pin hinge m.s. zinc-plated; spring made of spring steel zinc-plated

Version A, right	1117-U2	Version A, left	1117-U3
Version B, right	1117-U4	Version B, left	1117-U5

Pin hinge AISI 304; pin AISI 303; spring stainless steel

Version B, right	1117-U4-PC	Version B, left	1117-U5-PC
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INFO



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2 Locking Systems

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3 Hinges

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4 Sealing Profiles and Edge Protection

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5 Accessories

B5-210	Emergency hammer
B5-310	Tail hook / Cover stay
B5-410	Dust cap for high-speed trains

Article number index

Mounting types

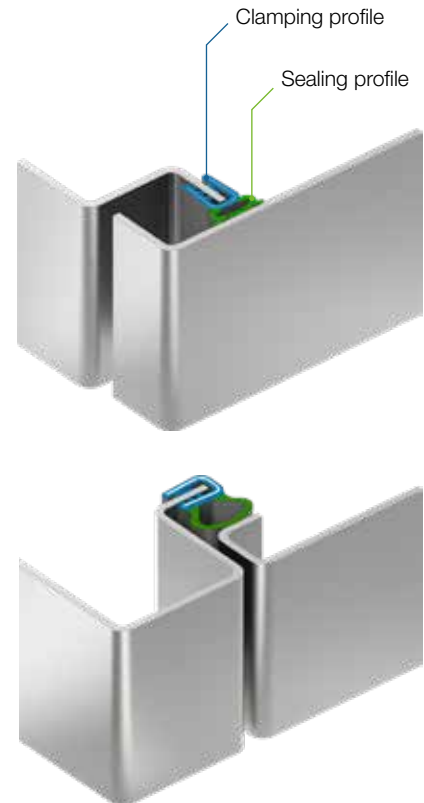
The mounting type is a decisive factor in choosing the right profile. The profiles distributed by EMKA offer mounting types for every application. The four standard mounting types are explained and illustrated below.

Self-clamping

Self-clamping profiles have an internal steel or wire clamping strip in the clamping area, which ensures that the seal is held securely on the sheet edge.

The clamping area and the sealing area usually consist of soft rubber in different Shore hardness as well as foam rubber with different density. Depending on the installation situation and requirements, a simple edge protection or a clip-on profile with sealing balloon or sealing lip can be attached to the edge.

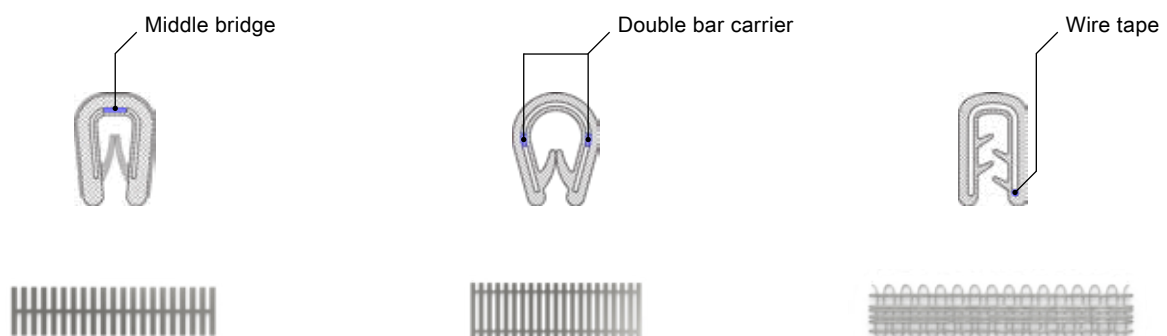
In order to achieve a perfect sealing result, it is necessary to adhere to the bending radii specified in the catalogue. Material buckling or stretching can cause leaks.



Stamped wire or wire spiral carrier?

Through the use of steel or wire clamping strips, profiles can adhere well even without adhesive bonding. Steel strapping generally shows a higher clamping effect than wire strapping. However, with "unbroken" profiles, the restricted bending radii laterally over the legs can be disadvantageous. This can be remedied by breaking the connecting webs; however, this can result in an "unsteady" appearance of the profile strand. In most technical applications the appearance is irrelevant.

The choice between wire or steel clamping band depends on the respective installation situation and the desired appearance.



Plugged

The plugged profile does not have a metal insert and is not glued.

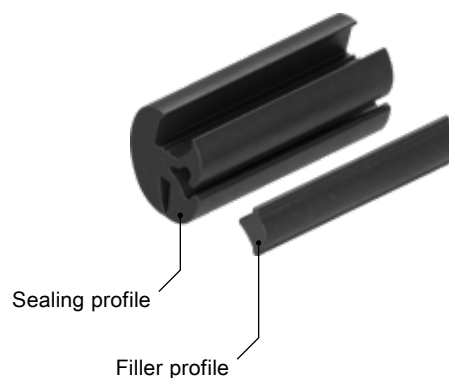
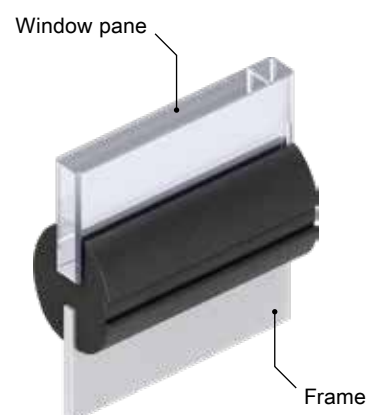
It is plugged into a gap or channel between two edges and safely seals the cavity in this way.



Clamped

Clamping profiles are ideal for screwless insertion of windows into metal or wood cut-outs. The use of a rubber clamping profile guarantees a firm, durable and rattle-free connection in many types of special vehicles, mobile construction site cabins and large machines.

In addition to the filler profile, you can also order the mounting aids from EMKA.

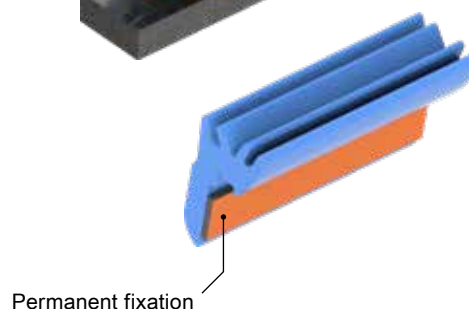
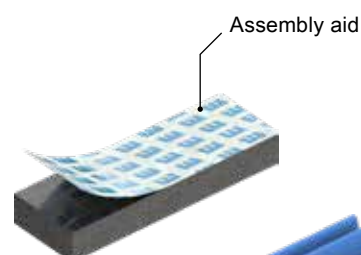


Glued

Bonding technology is particularly suitable for economical and quick fastening. The profile is glued to a flat area.

Due to an adhesive strip attached to the profile, the handling is very easy to install.

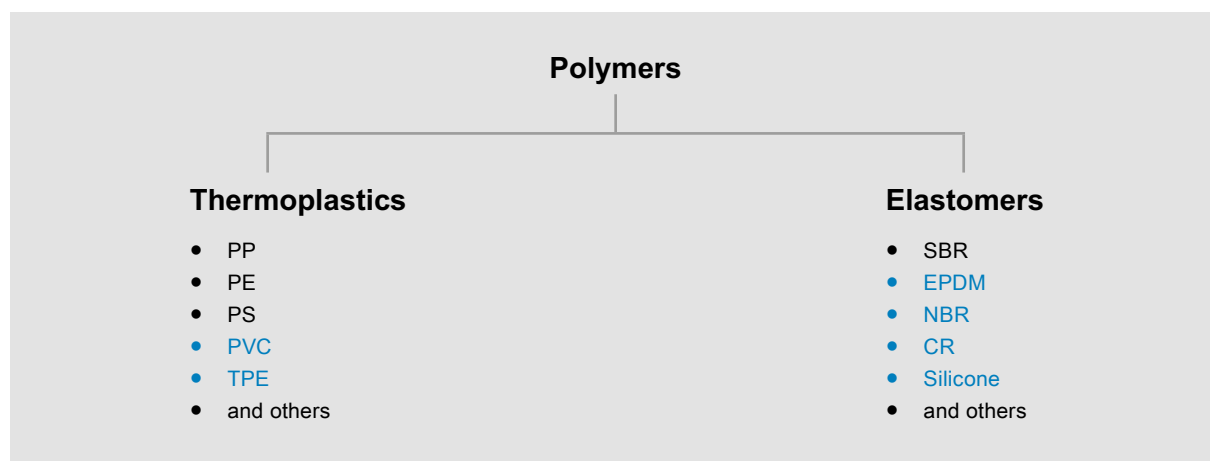
In the case of the adhesive cellular rubber profiles, integrated cotton threads guarantee a stretch-free assembly and thus prevent stretching and subsequent shrinkage of the seal.



Materials

In addition to the base material, many characteristics influence the function and quality of the seal. These include elasticity, residual compression and resistance to chemicals, heat and environmental influences.

EMKA mainly uses the materials EPDM, NBR and silicone. The materials PVC, TPE and CR are also used.



EPDM (ethylene propylene diene monomer rubber)

- Very good resistance to aging
- UV resistance
- Very good resistance to weathering
- Good ozone resistance
- Very good electrical insulation properties
- Resistant to alcohols and diluted acids (e.g. brake fluids)
- Application range -40 °C to +100 °C
- Special EPDM compounds also -50 °C to +150 °C with hot water and air

NBR (butadiene acrylonitrile rubber)

- Very good oil resistance
- Small compression set
- Good low temperature behaviour
- Typical application range -30 °C and +100 °C (with special compounds)
- Application in the food industry possible

Silicone

- Good elasticity even at very low and high temperatures
- Application range between -60 °C and +200 °C
- Conditional resistance to oils
- Resistance to weathering
- Resistance to aging
- Resistance to ozone
- UV resistance
- Very well suited for medical components
- Colour fastness

Material overview thermoplastics							
Short name	Typical operating temperatures	Resistances (extract)					Characteristics
		Mineral oil	Petrol	Sulphuric acid (conc.)	Water	Ozone	
PVC	approx. -10 °C to +70 °C temporary approx. -40 °C up to +90 °C	2	3	3	1	1	Good chemical resistance and mechanical values, soft PVC hardens in petrol and oil, good weldability and bonding properties.
TPE	approx. -30 °C to +80 °C	3	3	2	1	1	Good mechanical characteristics. TPEs are easy to process, are environmentally friendly and can be recycled. Strong plastic properties at high temperatures.

Material overview elastomers							
Short name	Typical operating temperatures	Resistances (extract)					Characteristics
		Mineral oil	Petrol	Sulphuric acid (conc.)	Water	Ozone	
EPDM	approx. -40 °C to +100 °C temporary up to +130 °C	3	3	1	1	1	Versatile material (seals). Good resistance in hot water, very good resistance to ageing, weathering and ozone.
NBR	approx. -30 °C to +100 °C temporary up to +120 °C	1	2	3	1	3	Versatile material. Seals and moulded parts in contact with mineral oil or fuel. Poor resistance to ozone and weathering.
CR	approx. -25 °C to +100 °C	3	2	3	2	3	Good mechanical characteristics, resistant to weathering and ozone. Does not burn in its own flame.
Silicone	approx. -60 °C to +200 °C	2	3	3	1	1	High thermal resistance, resistant to ageing, ozone and weathering. Good electrical insulation properties.

1 = Very good resistance, little or no attack (for thermoplastics: swelling < 3 % or weight loss <0.5 %)

2 = Good resistance, weak to moderate attack (for thermoplastics: swelling 3-8 % or weight loss 0.5-5 %)

3 = Not resistant, strong attack to complete destruction (for thermoplastics: swelling 3-8 % or weight loss >5 %)

Standards and certifications

EMKA sealing profiles are particularly high quality and safe, as shown by numerous certificates according to DIN, VDI, UL or fire protection standards. These play an important role in the use of the seals in order to define their quality or suitability for different applications - also country-specific.

The high quality and product standards are ensured by the excellent manufacturing competence and the ISO 9001:2008 certified process control. In principle, the production sites are also certified in accordance with the ISO 14001:2009 and IATF 16949:2016 standards.

EMKA profiles comply with the following standards, among others:

Standard	Explanation
VDI 6022	Hygiene requirements for ventilation and air conditioning systems
PMMA compatible according to Röhms	Stress crack resistance ("Röhms test method" by bending test)
DIN 7863	Technical delivery conditions of the visible profiles for window and facade construction
UL 50 and UL 50E	Regulation in USA and Canada for components and the construction of certified switchgear and control cabinets
UL 94-HB	Regulation in USA and Canada: Standard test for investigating the burning properties and fire safety of plastics
EN 45545-2	Standard for fire protection in railway vehicles - Part 2: Requirements for the fire behavior of materials and components
ASTM C 1166-06 (2011)	Flame propagation testing for compact and porous elastomeric seals and sealing accessories
Bombardier SMP 800-C Rev. 6:2009.08.31	Generation of toxic gases through material combustion
ASTM E 1354:2016a	Standard test method for heat and visible smoke emission for materials and products using an oxygen consumption calorimeter
ASTM E 662:2015	Standard test method for the specific optical density of smoke generated by solid materials
BSS 7239:1988	Test method for the determination of toxic gases during the combustion of materials
BSS 7242:1989	Determination of the concentration of cyanide, chloride and fluoride ions in solutions from combustion processes
FDA CFR 21 177.2600 (FDA = Food and Drug Administration)	Code of Federal Regulations CFR 21 Compliant mixtures to FDA CFR 21 177.2600

Processing / Finishing

Cutting to length

Upon customer request, profiles can be cut and packed online - i.e. in the running production line - or subsequently to lengths between 5 - 500 cm. Angled cuts, mitre cuts and notches are also possible.



Application of adhesive tape

The toolless mounting by gluing sealing profiles is used for more and more applications. The bonding of completely different materials as well as low-stress bonding due to large-area glued joints are major advantages here. Double-sided adhesive tapes can be applied subsequently for the respective application.



Coating

The natural, high friction coefficients of an elastomer can be significantly reduced with a bonded coating. This operation can be performed online - in the running production line - or subsequently, e.g. after corner vulcanization. The coating is transparent and therefore hardly visible.



Flocking

The flock fibers reduce the friction coefficients, which are very high in rubber. In addition, small unevenness and tolerances can be compensated. Typical applications are, for example, window seals in automotive engineering. Depending on the application, the flocking may wear off. Profile flocking changes the optical and haptic characteristics.



Sheathing / EMC sealing

A conductive foil is wrapped around the rubber profile and firmly bonded to the surface. The conductive connection of frame and door reduces electromagnetic interference. The attainable shielding effectiveness depends on numerous influencing factors.



Processing options

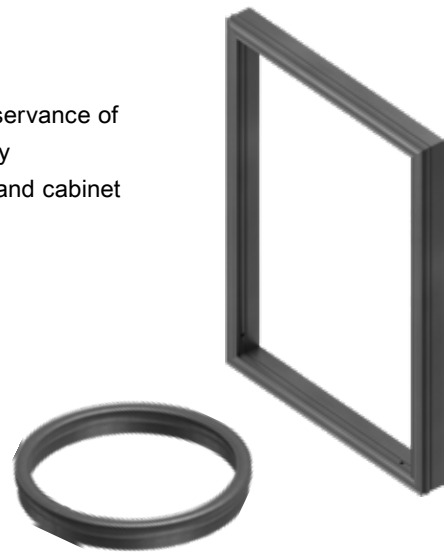
Information about frames and rings

Readily customised frames and rings according to customer specifications

We offer numerous assembly possibilities for the known profiles in fixed lengths. Thus, for frames and rings, the butt and corner joints can be bonded, film-vulcanized or realized by injection moulding (formed corners / end feeds). Possibly arising tool costs needs to be clarified beforehand due to the required assembly option.

Product benefits

- The exact and time-intensive mitre-cutting of the gasket or the observance of the given minimum bending radius of the gaskets are not necessary
- The ready-made frames and rings make it easy to attach to doors and cabinet frames
- No leakiness at butt ends and mitre joints



Glueing

The most simple process is to glue two profile ends.

For all rings, vent holes are strongly recommended as the compression force increases in a closed ring.

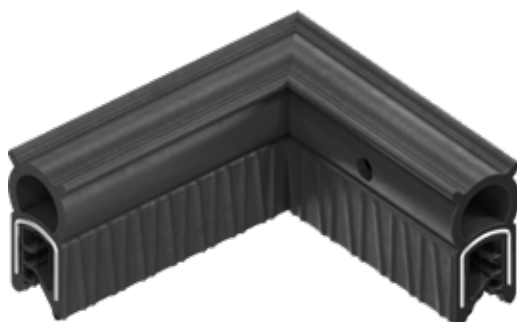
A better and more durable process is film vulcanization.



Film vulcanization

Film vulcanization is a permanent and durable process.

A foil of the same material is inserted between the profile ends that are to be vulcanised. The time required for film vulcanization is higher than for glueing.



Injection moulding

Injection molding stands for mould corners and end feeds.

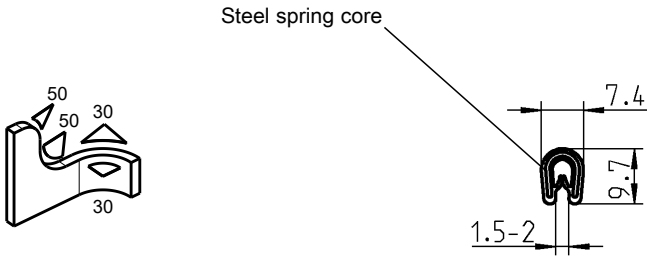
Injection moulding is a process for creating special corners for a frame, for example.

In the example shown, a lip profile is formed round in the corners ① while the clamping area ② of the profile is formed in a right angle. This is not possible when vulcanizing profile ends with mitre joint.

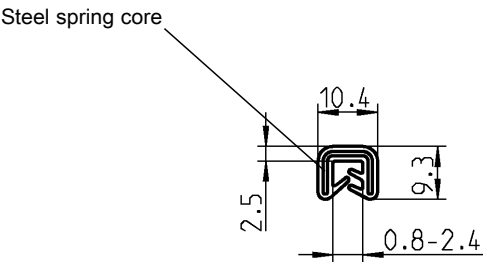


Edge protections made of fire protection material

PROGRAM 1010



Edge protection made of fire protection material EPDM 60° ± 5 Shore A black	
①	1010-HP479-FR01

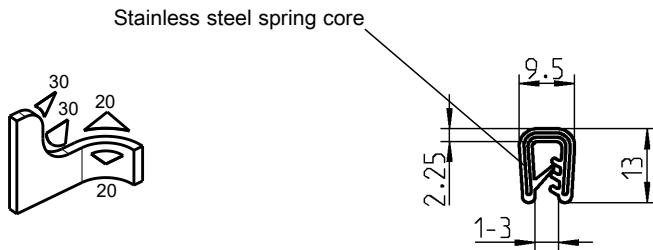


Edge protection made of fire protection material EPDM 60° ± 5 Shore A black	
① ② ③ ④ ⑤ 50 m roll	1010-S14-01
① ② ③ ④ ⑤ 100 m roll	1010-S14-FR01

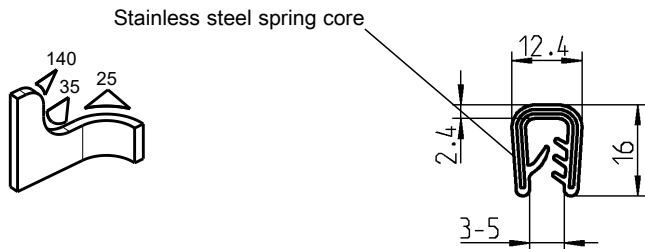
Fire protection standards



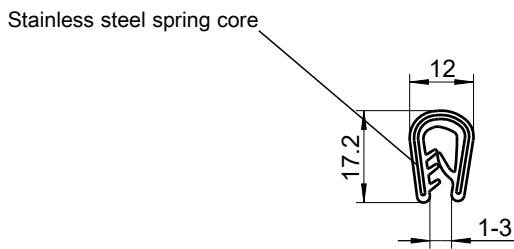
①	DIN EN 45545-2
②	ASTM C1166
③	ASTM E662
④	ASTM E1354
⑤	BSS 7239
⑥	SMP 800-C



Edge protection made of fire protection material EPDM 60° ± 5 Shore A black
①②③④⑤ 1010-S18-FR01



Edge protection made of fire protection material EPDM 60° ± 5 Shore A black
① 1010-S19-FR01



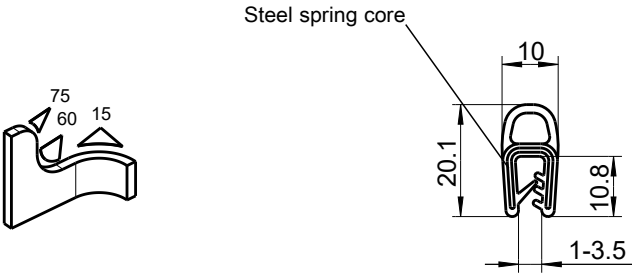
Edge protection made of fire protection material EPDM 60° ± 5 Shore A black
① 1010-S23-FR01

Fire protection standards



①	DIN EN 45545-2
②	ASTM C1166
③	ASTM E662
④	ASTM E1354
⑤	BSS 7239
⑥	SMP 800-C

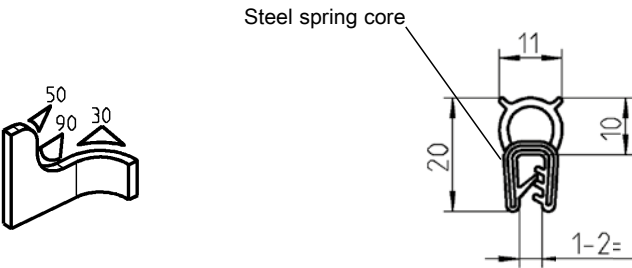
Sealing profiles made of fire protection material,
self-clamping
PROGRAM 1011



Sealing profile made of fire protection material foam rubber (EPDM) black
(Clamping profile EPDM 60 ± 5 Shore A)

①②③④⑤

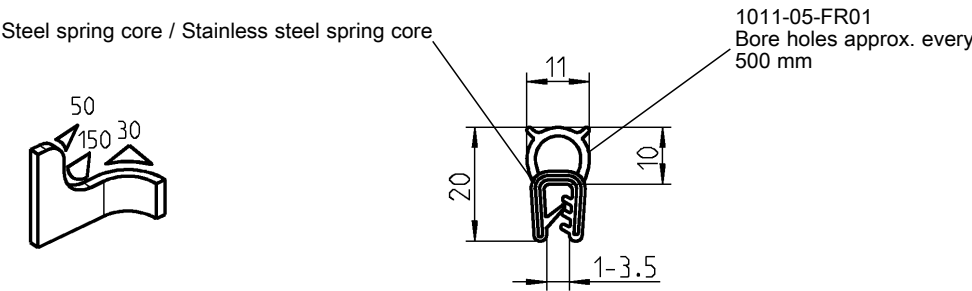
1011-S159-FR01



Sealing profile made of fire protection material foam rubber (EPDM) black
(Clamping profile foam rubber EPDM)

②③④⑤⑥

1011-S19



Sealing profile made of fire protection material foam rubber (EPDM) black
(Clamping profile EPDM 60 ± 5 Shore A)

①②③④⑤ Steel spring core

1011-05-FR01

①②③④⑤ Stainless steel spring core

1011-S140-FR01

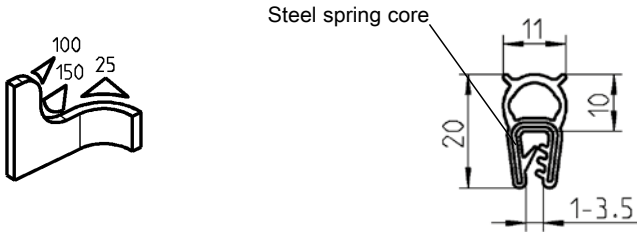
Fire protection standards



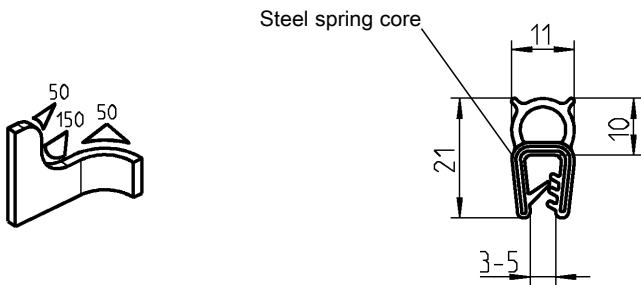
①	DIN EN 45545-2
②	ASTM C1166
③	ASTM E662
④	ASTM E1354
⑤	BSS 7239
⑥	SMP 800-C

Sealing profiles made of fire protection material, self-clamping

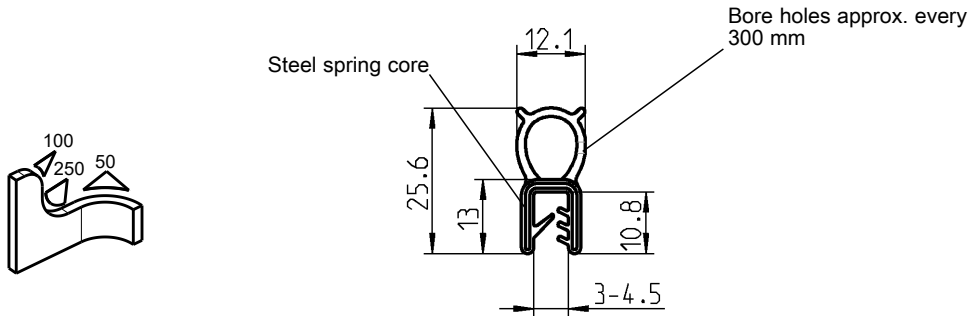
PROGRAM 1011



Sealing profile silicone solid material, made of fire protection material		
①②③④⑤	70 ± 5 Shore A, blue-black	1011-S47-BF
①	75 ± 5 Shore A, white	1011-S47-HA
①	60 ± 5 Shore A, black	1011-S80



Sealing profile made of fire protection material foam rubber (EPDM) black (Clamping profile EPDM 60 ± 5 Shore A)	
①②③④⑤	1011-S127-FR01



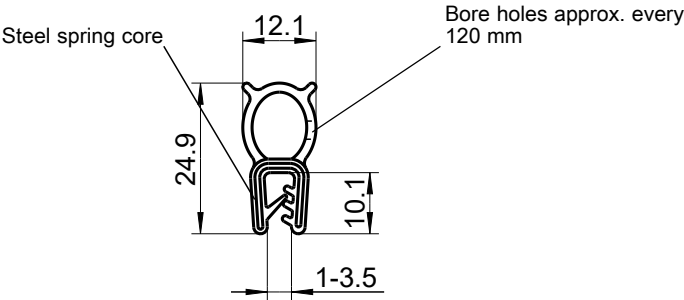
Sealing profile made of fire protection material foam rubber (EPDM) black (Clamping profile EPDM 60 ± 5 Shore A)	
①	1011-S118-FR01

Fire protection standards

①	DIN EN 45545-2
②	ASTM C1166
③	ASTM E662
④	ASTM E1354
⑤	BSS 7239
⑥	SMP 800-C



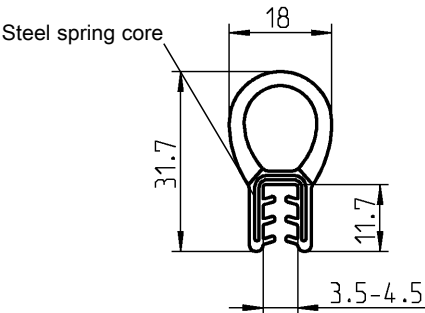
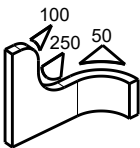
Sealing profiles made of fire protection material,
self-clamping
PROGRAM 1011



Sealing profile made of fire protection material foam rubber (EPDM) black
(Clamping profile EPDM 60 ± 5 Shore A)

①②③④⑤

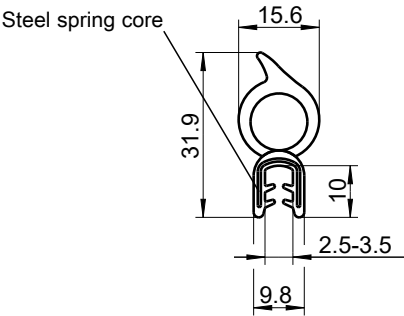
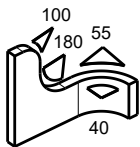
1011-S109-FR01



Sealing profile made of fire protection material foam rubber (EPDM) black
(Clamping profile EPDM 60 ± 5 Shore A)

①

1011-S119-FR01



Sealing profile made of fire protection material foam rubber (EPDM) black
(Clamping profile EPDM 60 ± 5 Shore A)

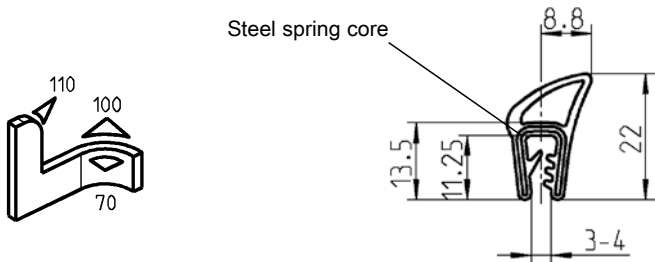
①

1011-HP86-FR01

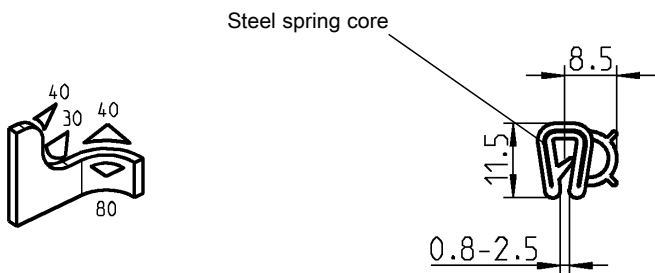
Fire protection standards



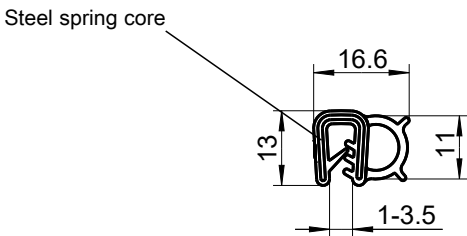
①	DIN EN 45545-2
②	ASTM C1166
③	ASTM E662
④	ASTM E1354
⑤	BSS 7239
⑥	SMP 800-C



Sealing profile made of fire protection material silicone solid material 70 ± 5 Shore A
blue-black
①②③④⑤ 1011-S56-BF



Sealing profile made of fire protection material foam rubber (EPDM) black
(Clamping profile EPDM 60 ± 5 Shore A)
①③④⑤⑥ 1011-09-FR01



Sealing profile made of fire protection material foam rubber (EPDM) black
(Clamping profile EPDM 60 ± 5 Shore A)
①②③④⑤ 1011-06-FR01

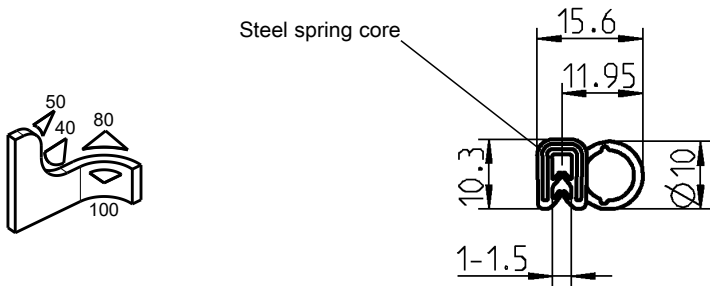
Fire protection standards



①	DIN EN 45545-2
②	ASTM C1166
③	ASTM E662
④	ASTM E1354
⑤	BSS 7239
⑥	SMP 800-C

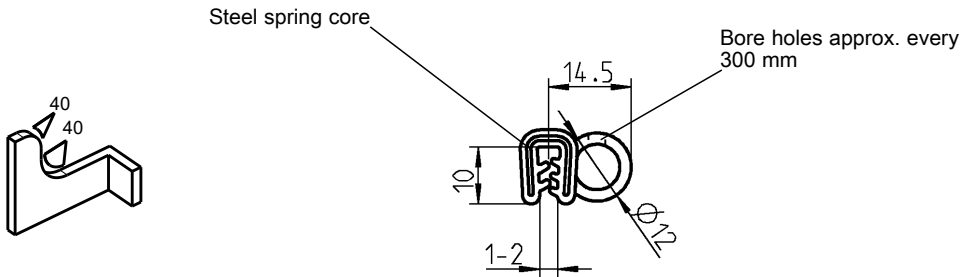
Sealing profiles made of fire protection material, self-clamping

PROGRAM 1011



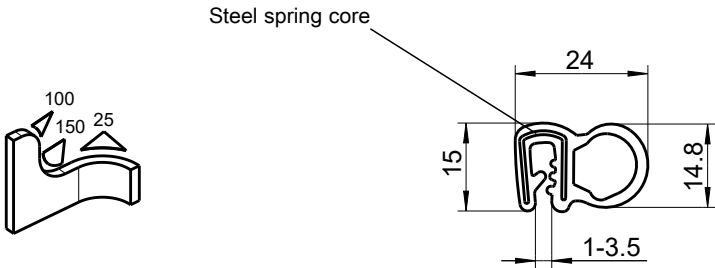
Sealing profile made of fire protection material foam rubber (EPDM) black
(Clamping profile EPDM 60 ± 5 Shore A)

①	1011-S34-FR01
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Sealing profile made of fire protection material foam rubber (EPDM) black
(Clamping profile foam rubber EPDM)

②③④⑤⑥	1011-S23
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Sealing profile silicone solid material, made of fire protection material

①②③④⑤	70 ± 5 Shore A, blue-black	1011-S42-BF
①	75 ± 5 Shore A, white	1011-S42-HA

Fire protection standards



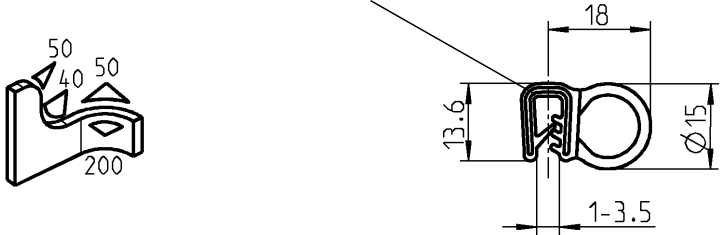
①	DIN EN 45545-2
②	ASTM C1166
③	ASTM E662
④	ASTM E1354
⑤	BSS 7239
⑥	SMP 800-C

Sealing profiles made of fire protection material, self-clamping

PROGRAM 1011



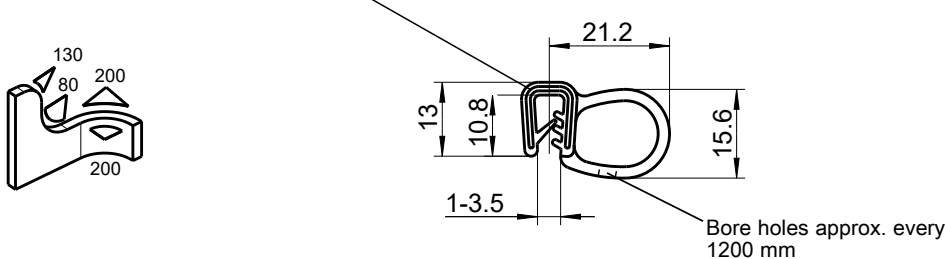
Steel spring core / Stainless steel spring core



Sealing profile made of fire protection material foam rubber (EPDM) black
(Clamping profile EPDM 65 ± 5 Shore A)

①②③④⑤ Steel spring core	1011-51-FR01
①②③④⑤ Stainless steel spring core	1011-S141-FR01

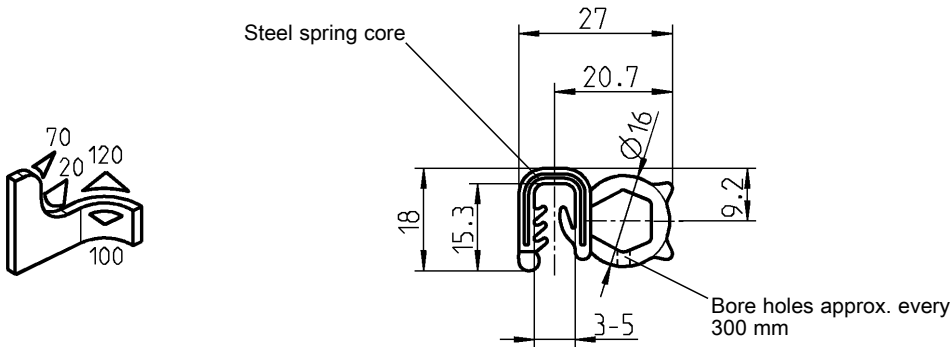
Steel spring core



Sealing profile made of fire protection material foam rubber (EPDM) black
(Clamping profile EPDM 60 ± 5 Shore A)

①②③④⑤	1011-22-01FR01
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Steel spring core



Sealing profile made of fire protection material foam rubber (EPDM) black
(Clamping profile EPDM 60 ± 5 Shore A)

①	1011-45-FR01
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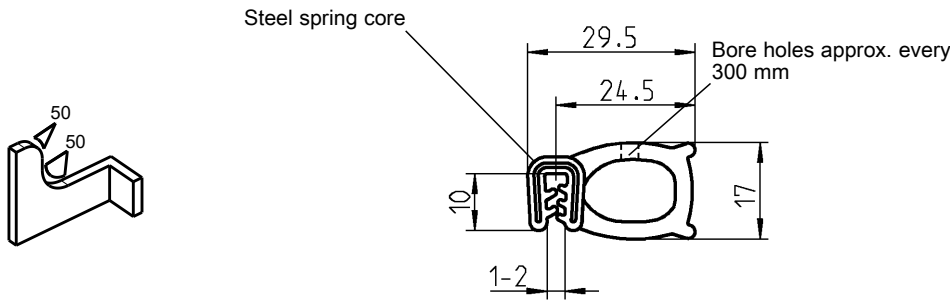
Fire protection standards



①	DIN EN 45545-2
②	ASTM C1166
③	ASTM E662
④	ASTM E1354
⑤	BSS 7239
⑥	SMP 800-C

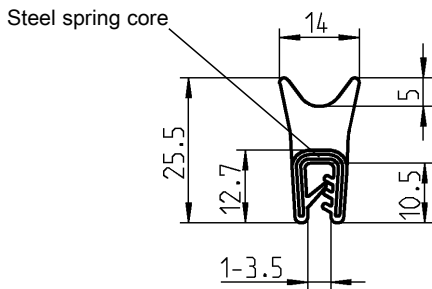
Sealing profiles made of fire protection material, self-clamping

PROGRAM 1011



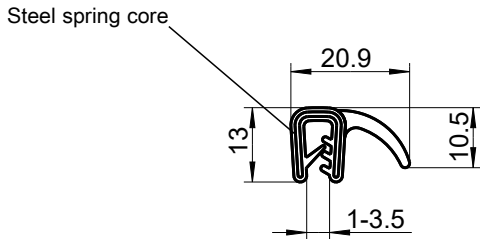
Sealing profile made of fire protection material foam rubber (EPDM) black
(Clamping profile foam rubber EPDM)

②③④⑤⑥ 1011-S24



Sealing profile made of fire protection material foam rubber (EPDM) black
(Clamping profile EPDM 60 ± 5 Shore A)

①②③④⑤ 1011-S124-FR01



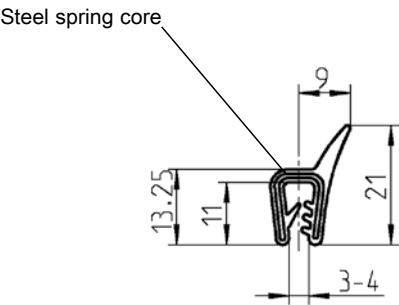
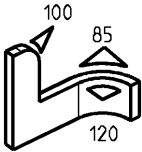
Sealing profile made of fire protection material foam rubber (EPDM) black
(Clamping profile EPDM 60 ± 5 Shore A)

①②③④⑤ 1011-08-FR01

Fire protection standards



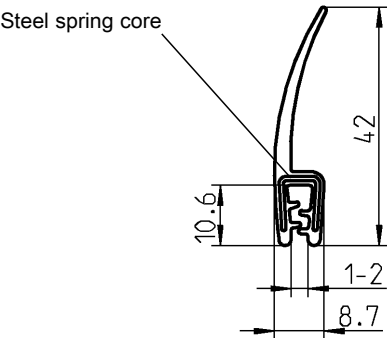
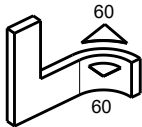
①	DIN EN 45545-2
②	ASTM C1166
③	ASTM E662
④	ASTM E1354
⑤	BSS 7239
⑥	SMP 800-C



Sealing profile made of fire protection material silicone solid material 70 ± 5 Shore A
blue-black

①②③④⑤

1011-S53-BF



Sealing profile made of fire protection material silicone solid material 70 ± 5 Shore A
blue-black

①②③④⑤

1011-S83-BF

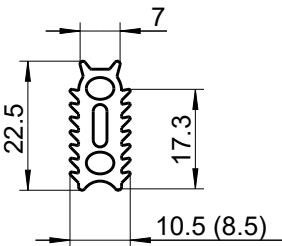
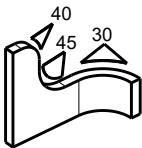
Fire protection standards



①	DIN EN 45545-2
②	ASTM C1166
③	ASTM E662
④	ASTM E1354
⑤	BSS 7239
⑥	SMP 800-C

Sealing profiles made of fire protection material secured in a U-section

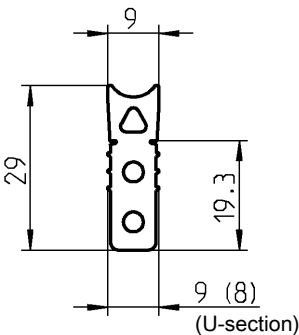
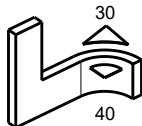
PROGRAM 1003



Sealing profile made of fire protection material foam rubber (EPDM) black

①②③④⑤

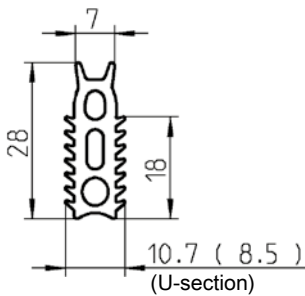
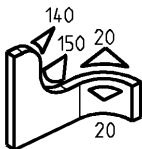
1003-13-FR01



Sealing profile made of fire protection material silicone foam blue-black

①②③④⑤

1003-S32-BF



Sealing profile made of fire protection material silicone solid material 50 ± 5 Shore A blue-black

①

1003-S29-BF

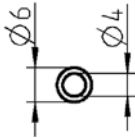
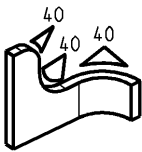
Fire protection standards



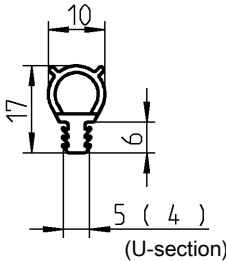
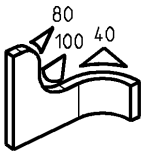
①	DIN EN 45545-2
②	ASTM C1166
③	ASTM E662
④	ASTM E1354
⑤	BSS 7239
⑥	SMP 800-C

Sealing profiles made of fire protection material secured in a U-section

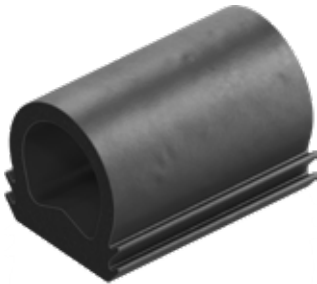
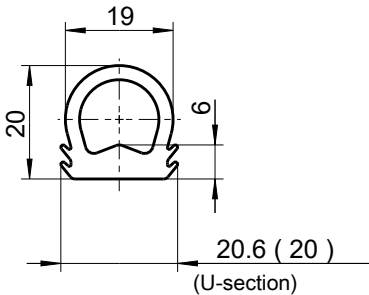
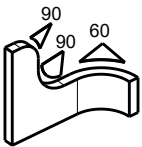
PROGRAM 1016, 1101, 1038



Sealing profile silicone solid material, made of fire protection material		
①②③④⑤	70 ± 5 Shore A, blue-black	1016-S4-BF
①	75 ± 5 Shore A, white	1016-S4-HA



Sealing profile made of fire protection material foam rubber (EPDM) black (Clamping profile EPDM 60 ± 5 Shore A)	
①	1101-03-FR01



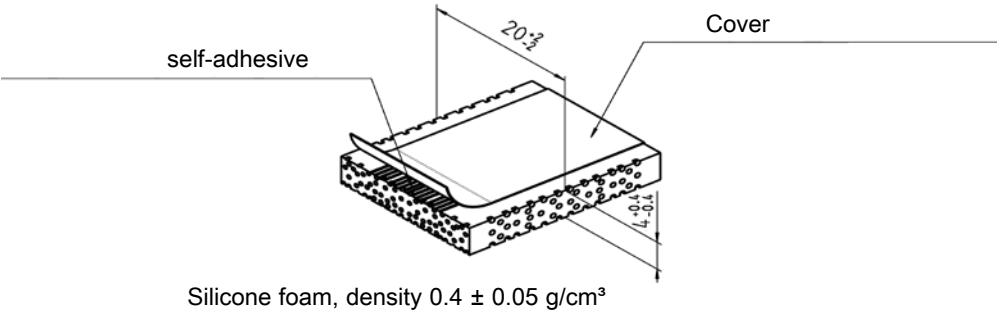
Sealing profile made of fire protection material foam rubber (EPDM) black	
①	1038-S52-FR01

Fire protection standards



①	DIN EN 45545-2
②	ASTM C1166
③	ASTM E662
④	ASTM E1354
⑤	BSS 7239
⑥	SMP 800-C

Sealing profile made of fire protection material,
self-adhesive
PROGRAM 1016



Sealing profile silicone foam,
stretch-free and self-adhesive,
made of fire protection material, blue-black

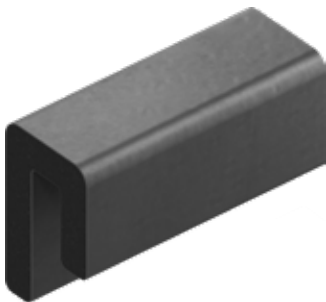
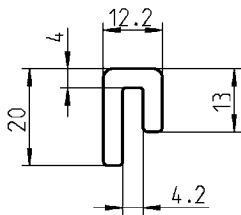
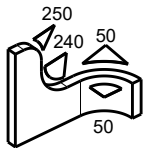
① ② ③ ④ ⑤ roll length 50m

1016-S128

Fire protection standards

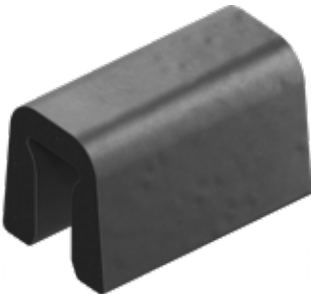
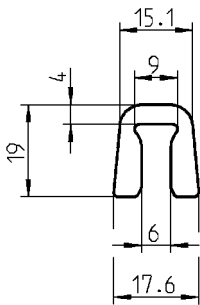
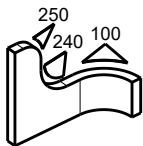


①	DIN EN 45545-2
②	ASTM C1166
③	ASTM E662
④	ASTM E1354
⑤	BSS 7239
⑥	SMP 800-C



Clip-on profile made of fire protection material EPDM black 60 ± 5 Shore A

①	1038-S49-FR01
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Clip-on profile made of fire protection material EPDM black 60 ± 5 Shore A

①	1038-S50-FR01
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Fire protection standards



①	DIN EN 45545-2
②	ASTM C1166
③	ASTM E662
④	ASTM E1354
⑤	BSS 7239
⑥	SMP 800-C

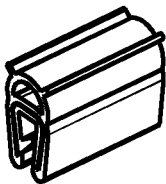
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EMC sealing profiles

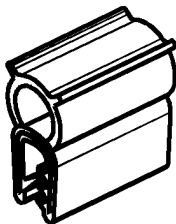
PROGRAM EMC



EMC seals



Dimensions see
main catalogue
page 5A-220
article 1011-10

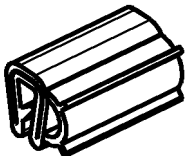


Dimensions see
main catalogue
page 5A-220
article 1011-05

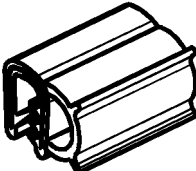


Sealing profile soft foam rubber / EPDM with conductive overall coating and steel spring core	
1011-10-E	1011-05-E

EMC seals



Dimensions see
main catalogue
page 5A-240
article 1011-09



Dimensions see
main catalogue
page 5A-260
article 1011-06



Sealing profile soft foam rubber / EPDM with conductive overall coating and steel spring core	
1011-09-E	1011-06-E

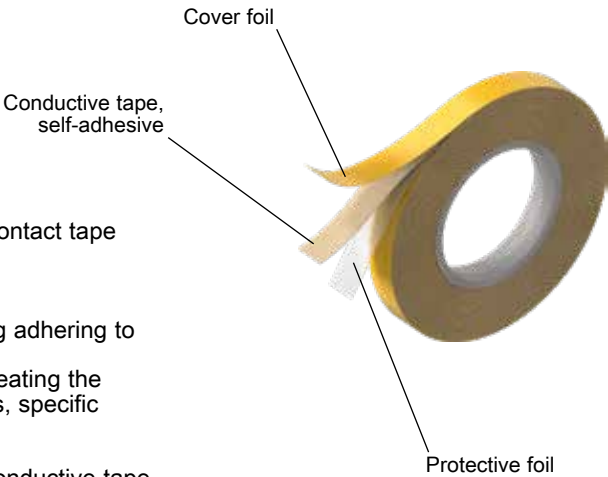
Attention:
Please provide a contact area for
all EMC seals. For painted or pow-
der coated cabinets see conductive
tape.

EMC conductive tape

- For painting and contact
- Highly-conductive adhesive for creating paint-free contact areas
- Length 25 m

Note:

- The surface to be coated must be free of grease and dust.
- Remove the protective film from the contact tape and stick the conductive contact tape onto the contact surfaces.
For better hold, the contact tape is wider than the cover foil.
- Afterwards painting or coating is possible, the cover foil prevents the coating adhering to the conductive tape.
Please observe the following guide values for the contact strip when heat treating the coating: max. 120°C continuous load; up to 230°C possible for short periods, specific testing in each case is necessary.
- After painting or powder coating the cover foil can be removed easily, the conductive tape is left securely in place.



EMC conductive tape		
Dimensions	Suitable for EMC seal	
12.7	— —	1016-220-127E
22	1011-09-E; 1011-10-E	1016-220-220E
25.4	1011-05-E; 1011-06-E	1016-220-254E
Further dimensions on request		

Notes



All standard profiles can be found in the **EMKA special catalogue "Sealing technology made to measure"** or in the **online product database**.

[View special catalogue
"Sealing technology made to measure"](#)

[View online product database](#)



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2 Locking Systems

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5 Accessories

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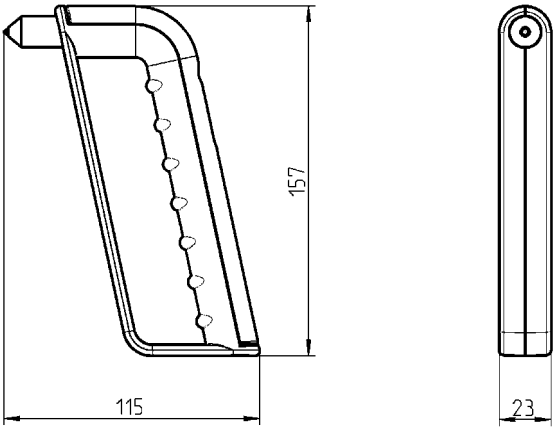
Article number index

Emergency hammer

PROGRAM 5225

Emergency hammer with hand protection

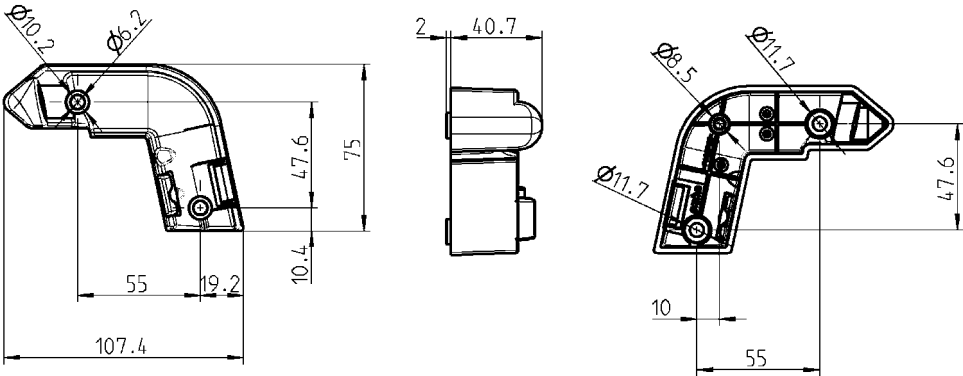
(Order holder separately)



Emergency hammer with hand protection Grip polyamide GF black and red fire protection certified (HL3); bolt m.s. zinc-plated with Top Coat; tip hardened steel; screws m.s. zinc-plated	
Railway version	5225-U315

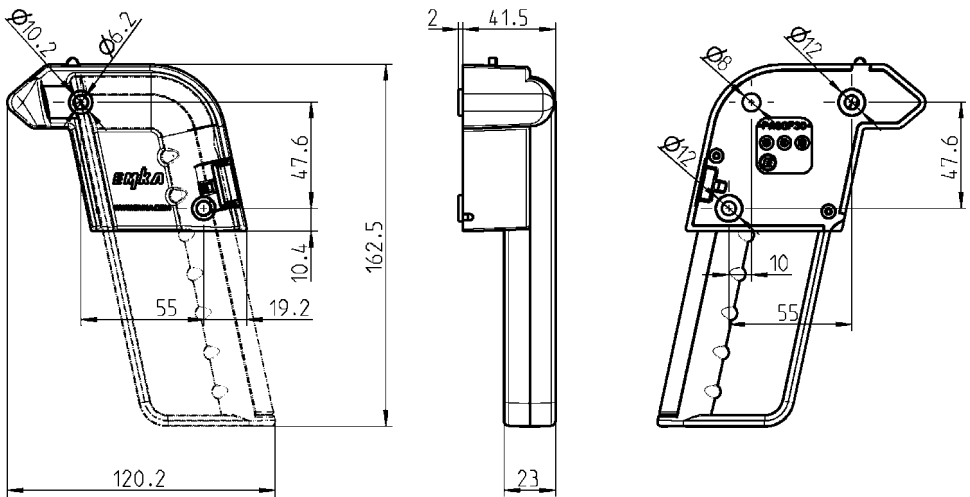
Holder for emergency hammer

(Order emergency hammer separately)



Holder polyamide GF black fire protection certified (HL3)	
Railway version	5225-17-01

Emergency hammer with hand protection and holder with theft protection



1 Locks and Latches

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Emergency hammer with hand protection

Grip polyamide GF black and red fire protection certified (HL3);
bolt m.s. zinc-plated with Top Coat; tip hardened steel;
screws m.s. zinc-plated

Holder with theft protection

Holder and trigger polyamide GF black fire protection certified (HL3);
pulley POM; winding spring made of spring steel; wire cable;
screws m.s. zinc-plated

Railway version

5225-U315-01

with enclosed lead seal

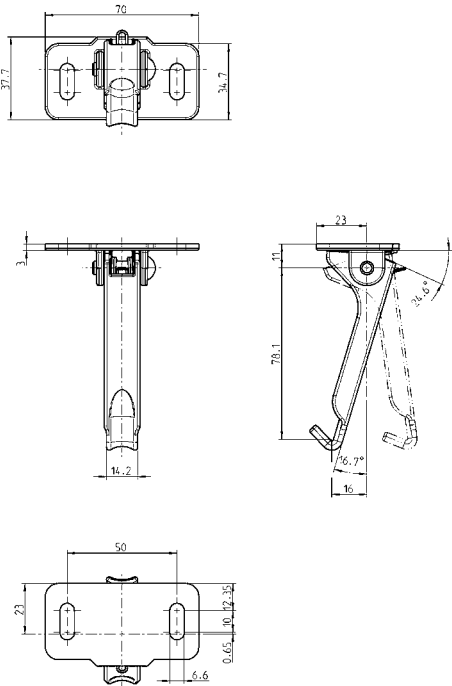
on request

Tail hook; Stainless steel telescopic cover stay with push button for unlocking

PROGRAM 5225, 1097

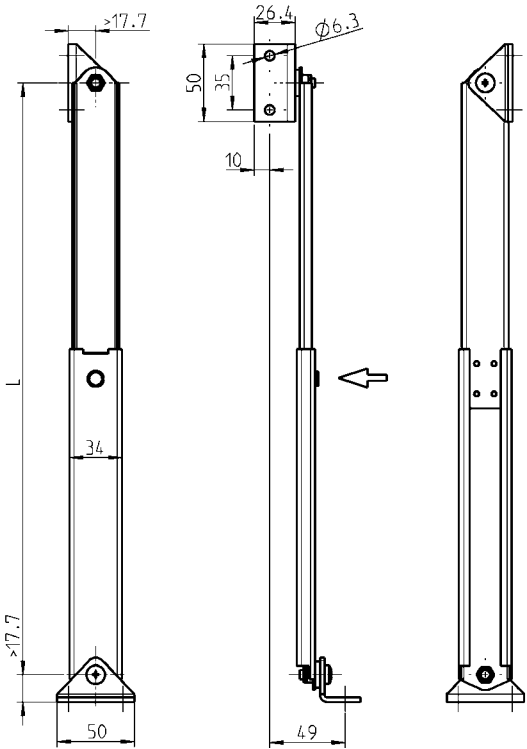


Tail hook



Tail hook AISI 316; spring and half-round rivet stainless steel	
	5225-U400

Stainless steel telescopic cover stay with push button for unlocking



Telescopic cover stay AISI 304, push button AISI 303			
	retracted	extended	
Dimension L	213	382	1097-U5-PC

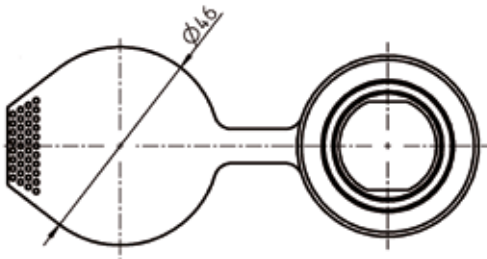
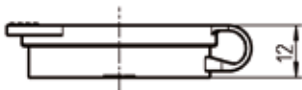
Further parts see page – Hinges Chapter B3



When combined use of dust cap 1000-97-02 and compression latch with optical open indicator (catalogue page B1-290) an additional safety aspect is achieved.



In addition to the clearly visible red ring, the dust cap 1000-97-02 cannot be closed and is thus open.



Note:
The dust cap 1000-97-02 was successfully tested by the Technical University of Dresden with respect to high-speed resistant class up to 450 km/h.

Attention:
The H-dimension will be reduced by 2 mm when using this dust cap.

Further parts see page
– Quarter turn from B1-120 to B1-180
– Compression latch from B1-210 to B1-290

Dust cap for high-speed trains	
Thermoplastic elastomer, UV resistant, black	1000-97-02
polyethylene black	1000-97-01

More products



Aluminium windows
PROGRAM 1200

Page 476 7A-100



EMKA Proflex aluminium window
PROGRAM 1210

Page 480 7B-100



You will find many more **accessories** in the interactive [EMKA main catalogue](#) as well as in the [online product database](#).

[View interactive EMKA main catalogue](#)

[View online product database](#)

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