

Modular Closing Systems for Cabinets and Enclosures



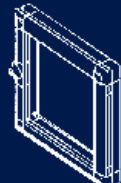
LOCKS/LATCHES



HINGES



GASKETING



ACCESSORIES

www EMKA com

EMKA Group



EMKA Headquarters
Velbert, Germany



As a global supplier, EMKA has emerged as the world leader in the development, engineering and design of modular closing systems for industrial sheet metal and composite enclosures, cabinets, panels and switch gear.

Our extensive experience in custom designs, developed in conjunction with customer specific requirements, compliments the full range of off-the-shelf products for standard applications.

With sales, marketing and engineering teams throughout the world, EMKA's advanced product offering along with our technological resources provides customers, with solutions which address local as well as global requirements.

Manufacturing expertise and efficient resource allocation are corner stones shared by all EMKA production facilities.



CAD Download



For design engineers EMKA provides a special, practice-oriented service:

Design data is available on the internet in the internationally used exchange formats, STEP and IGES. On www.EMKA.com, in the download-sector, you can find the submenu "CAD Files". Search functions are available according to part numbers or product groups.

All 3D formats generated by Pro/Engineer can easily be taken over into any designer software. The EMKA Newsletter periodically informs you of amendments and new products.

www.EMKA.com

STEP

IGES

Explanation of pictograms

	Inside the gasketing		Outside the gasketing		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- and LH-version
	IP-rating: IP 40		IP-rating: IP 50		IP-rating: IP 54		IP-rating: IP 65		IP-rating: IP 66		
	2D nut in use		2D adjustable product		3D adjustable product		ELM Electronic Locking & Monitoring System application		With earthing or earthing possible		
	PUR-foamed seal				Clip-in assembling		Stainless steel AISI 303 or 1.4305 AISI 304 or 1.4301 AISI 316 or 1.4401 / 1.4571				

List of contents

Quarter turns



Rod controls



Locking systems



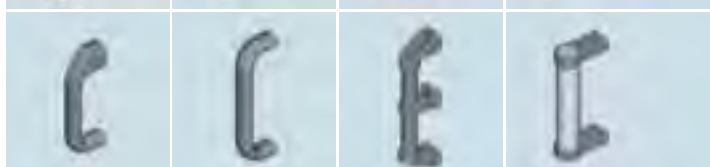
Hinges



Gasketing



Handles



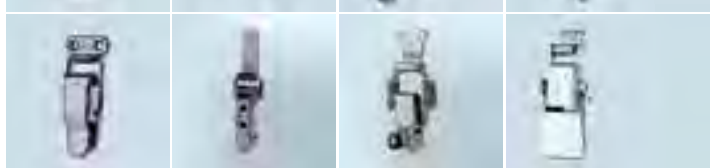
Aluminium windows



Stainl. steel



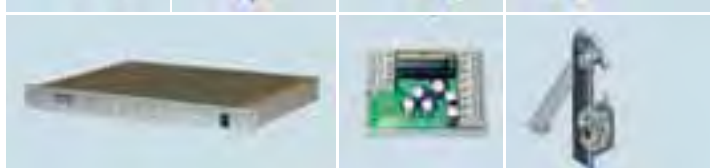
Toggle latches



Air conditioning applications



ELM Electronic Locking & Monitoring Security Systems



Miscellaneous



				Information	General notes Technical information	Info
				Quarter turns 1A. Quarter turns, small and medium version (Program 1012, 1022) 1B. Quarter turns, standard version (Program 1000) 1C. Accessories: cams, handles, rod control, dust cap, rotation prevention, rods and rod guides	Overview: 1-100	
				Rod controls 2A. Latches for heavy duty, screw-on program 2B. Latches for heavy duty, weld-on program		
				Locking systems 3A up to 3L. 1107, 1125, 1150, 1160, 1180, 1190, 1225, 2100, 2300, 2400, 2600 3XA up to 3XB. Locking sets: modular sets, profile half cylinders 3YA up to 3YC. Rod controls, bearing bush, cams 3ZA up to 3ZC. Rods for rod control and rod gear outside or inside the gasketing; rod guides	Overview programs, matrix: 3-100	
						
				Hinges 4A. Hinges for prominent doors 4B. Hinges for flush doors and aluminium profiles 4C. Pin hinges	Overview, matrix: 4-100	
						
				Gasketing 5A. Gasketing, closed cell sponge rubber, edge protection, window rubber profiles 5B. Gasketing according to VDI 6022 5C. EMC gasketing material		
				Handles 6A. Bow-type handles in different sizes, tube handles, hinged pattern handles (Program 1095) 6B. Hinged pattern handles, with leaf spring, with insert piano wire torsion spring (Program 6040)		
				Aluminium windows 7A. Aluminium windows with or without frame (Program 1200) 7B. EMKA PROflex, Aluminium window completely assembled or kit for self assembly (Program 1210) 7C. Aluminium doors (Program 1300)		
				Stainless steel program 8A. Locks: quarter turns, escutcheons, swinghandles, rods 8B. Hinges for prominent or flush doors		
				Toggle latches 9A. Wire toggle latch, rigid wire toggle latch, spring loaded toggle latch, special toggle latch, adjustable toggle latch, catch plates (Program 6000)		
						
				Air conditioning applications 10A. Heavy duty latches, lift and turn latch, pull, pull with quarter turn, 180° hinge (Program 1091)		
						
				ELM Electronic Locking & Monitoring Systems 11A. ELM Security System: network solutions, 19" rack mount units, keypad, ELM combination handle with integrated keypad, sensors, accessories 11B. Stand-alone Solutions: Keypad, combination handle with integrated keypad, accessories		
				Miscellaneous 12A. Locks/latches: Retractable handle, door lock, slam lock, snap lock 12B. Keys 12C. Cover stays and door stops 12D/E. Accessories and fixing material		

General notes

All drawings are shown in right-hand version.

All dimensions mentioned are in mm.

Note for cut outs:

All dimensions are final dimensions, please consider for surface coating.

All drawings are not to scale.

UL50 and UL94 HB listed products see chapter 5.

Stainless steel parts made of AISI 304 material are easy to weld-on.

All cylinder locks in zinc die are supplied with one key manufactured in silver steel and polyamide grip.

We reserve the right to make changes in design and drawing.

Abbreviations

A = Distance

B = Width

GH = Length of housing

H = Height

L = Length

Th = Door height

Ts = Door gauge

S = Material gauge

Fst = Spring steel

GD-Zn = Zinc die

m.s. = Mild steel

GF = Glass fibre

GTW = Temper

PA = Polyamide

Protection categories to IEC 60 529

The IP protection category is characterised by 2 numbers. Example of protection category: e.g. IP 54.

First No.	Degrees of protection for protection against contact and foreign bodies	Sec. No.	Degrees of protection for protection against water
1	Protected against solid foreign objects Ø 50 mm and greater	1	Protected against vertically falling water drops
2	Protected against solid foreign objects Ø 12.5 mm and greater	2	Protected against vertically falling water drops when the enclosure is tilted up to 15°
3	Protected against solid foreign objects Ø 2.5 mm and greater	3	Protected against spraying water
4	Protected against solid foreign objects Ø 1.0 mm and greater	4	Protected against splashing water
5	Dust-protected	5	Protected against water jets
6	Dust-tight	6	Protected against powerful water jets
		7	Protected against the effects of temporary immersion in water

Protection categories to National Electrical Manufacturers Association (NEMA)

The UL classifications are not directly comparable with IP protection categories, since both the test conditions and the evaluation of the test results are different.

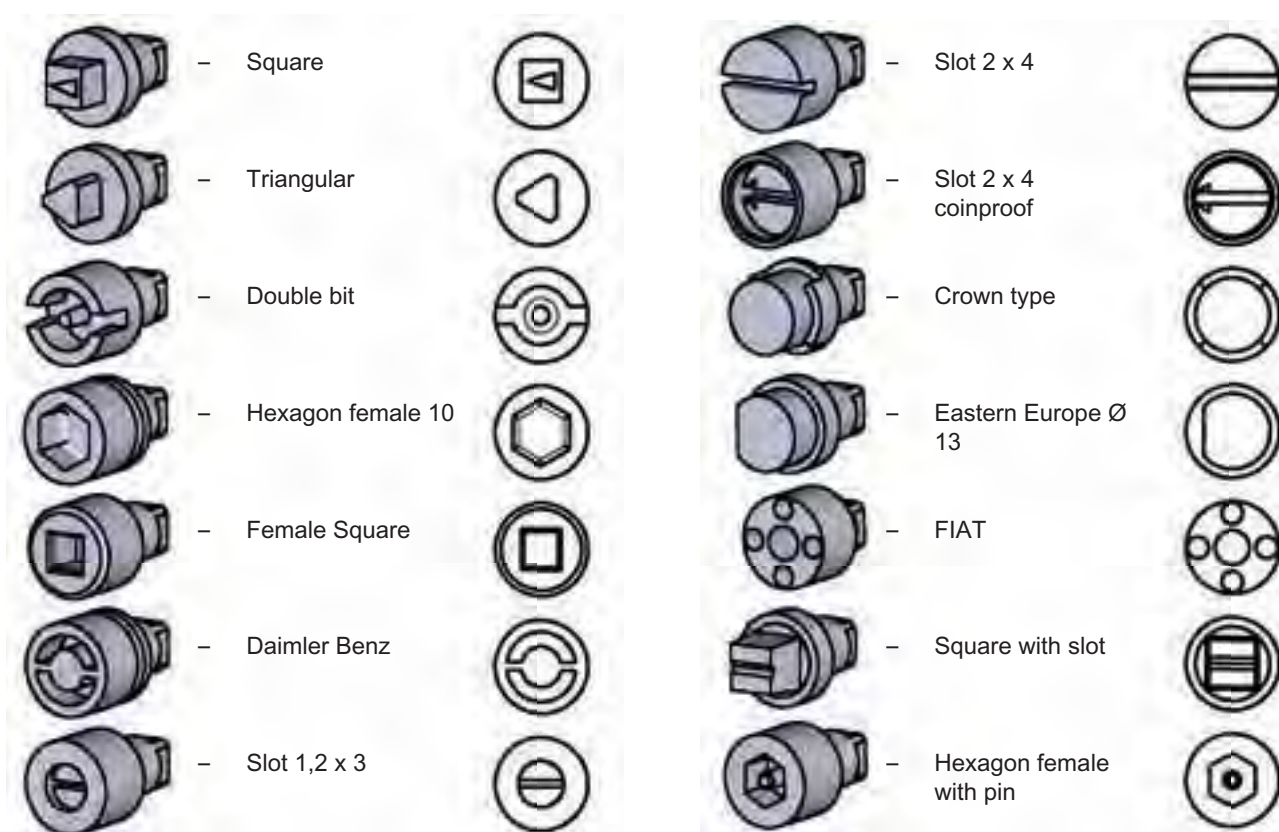
UL/NEMA	Description
1	Protection against the penetration of foreign bodies.
3, 3R	Protection against the penetration of solid bodies, protection against the ingress of rain and dust and damage caused by icing.
3S	Protection against rain, snow and foreign bodies. External mechanisms remain usable despite being coated in ice.
4, 4X	Protection against rain, foreign bodies, splashed water and hosed water and against damage caused by icing on the exterior of the enclosure.
12, 12K	Protection against dust deposits, foreign bodies and non-corrosive dripping liquids.
13	Protection against dust deposits, sprayed water, oil, and non-corrosive coolants.

Stainless steel material specifications

Germany		USA	Japan	Unified Numbering System
W.-Nr.	DIN	AISI	JIS	UNS
1.4301	X5CrNi18-10	304	SUS 304	S 30400
1.4305	X8CrNiS18-9	303	SUS 303	S 30300
1.4310	X10CrNi18-8	301	SUS 301	S 30100
1.4401	X5CrNiMo17-12-2	316	SUS 316	S 31600
1.4571	X6CrNiMoTi17-12-2	316 Ti	SUS 316 Ti	S 31635

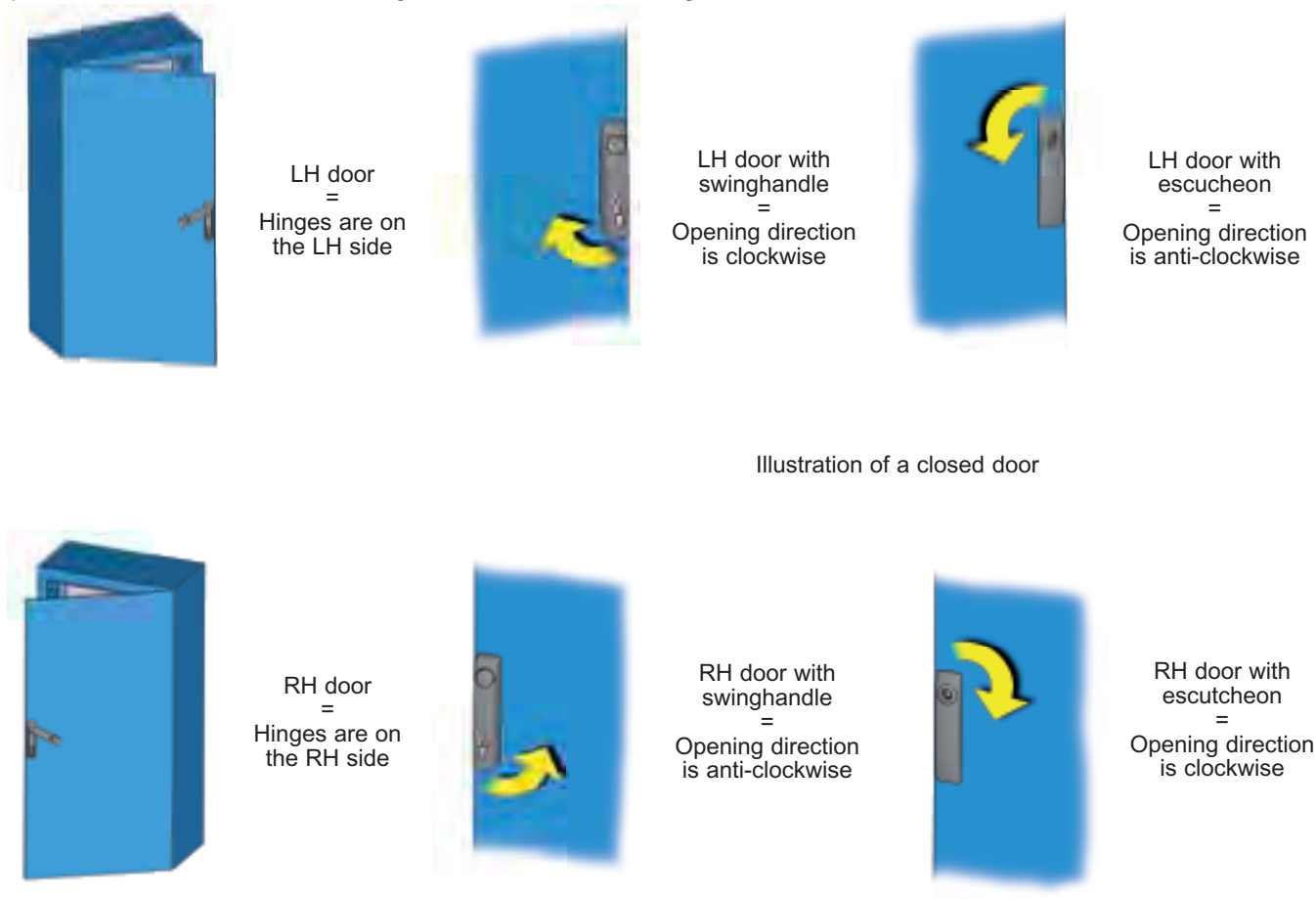
This catalogue is made of free from chlorine bleached paper.

Overview of inserts for quarter turns, escutcheons, swinghandles and further articles.



Further inserts upon request!

Explanation of the terms left hand/right hand door and locking direction





Statement regarding RoHS-Compliance

Background and Requirements

As of July 1, 2006, the EU-Directive 2002/95/EG, abbr. RoHS (Restrictions of Hazardous Substances), for a restriction of the use of certain materials within electrical and electronic equipment, governs material concentrations of lead, mercury, cadmium, chromium VI (hexavalent chromium) and brominated flame retardants for electrical and electronic equipment newly put in circulation.

Statement

For the EMKA Group with global business the protection of the environment and natural resources has always been considered as an entrepreneurial commitment and, as a consequence, the Company EMKA Beschlagteile GmbH & Co. KG very early on decided to gradually adopt RoHS for the whole product range.

Since July 1st, 2006, the date fixed by law, the whole range of products from the EMKA standard programme are in compliance with RoHS.

Tolerances of gasketing from chapter 5

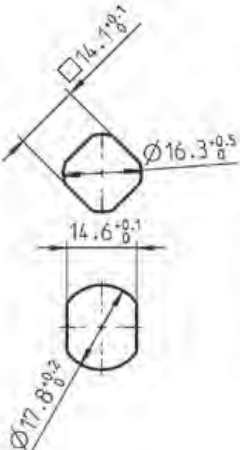
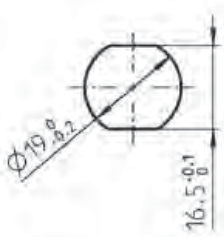
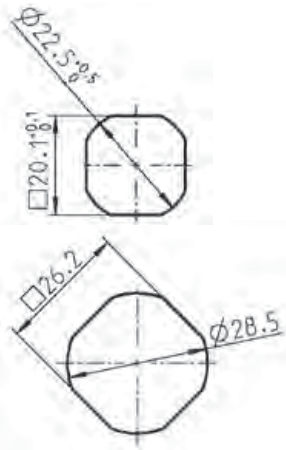
As the following product descriptions do not contain any reference to measurement tolerances, deviations are covered by the applicable DIN Standard ISO 3302-1 E 2 from which the following examples have been taken.

Nominal Measurement	up to 2,5	over 2,5 to 4	over 4 to 6,3	over 6,3 to 10	over 10 to 16	over 16 to 40	over 25 to 40	over 40 to 63	over 63 to 100
Tolerance ±	0,35	0,40	0,50	0,70	0,80	1,00	1,30	1,60	2,00

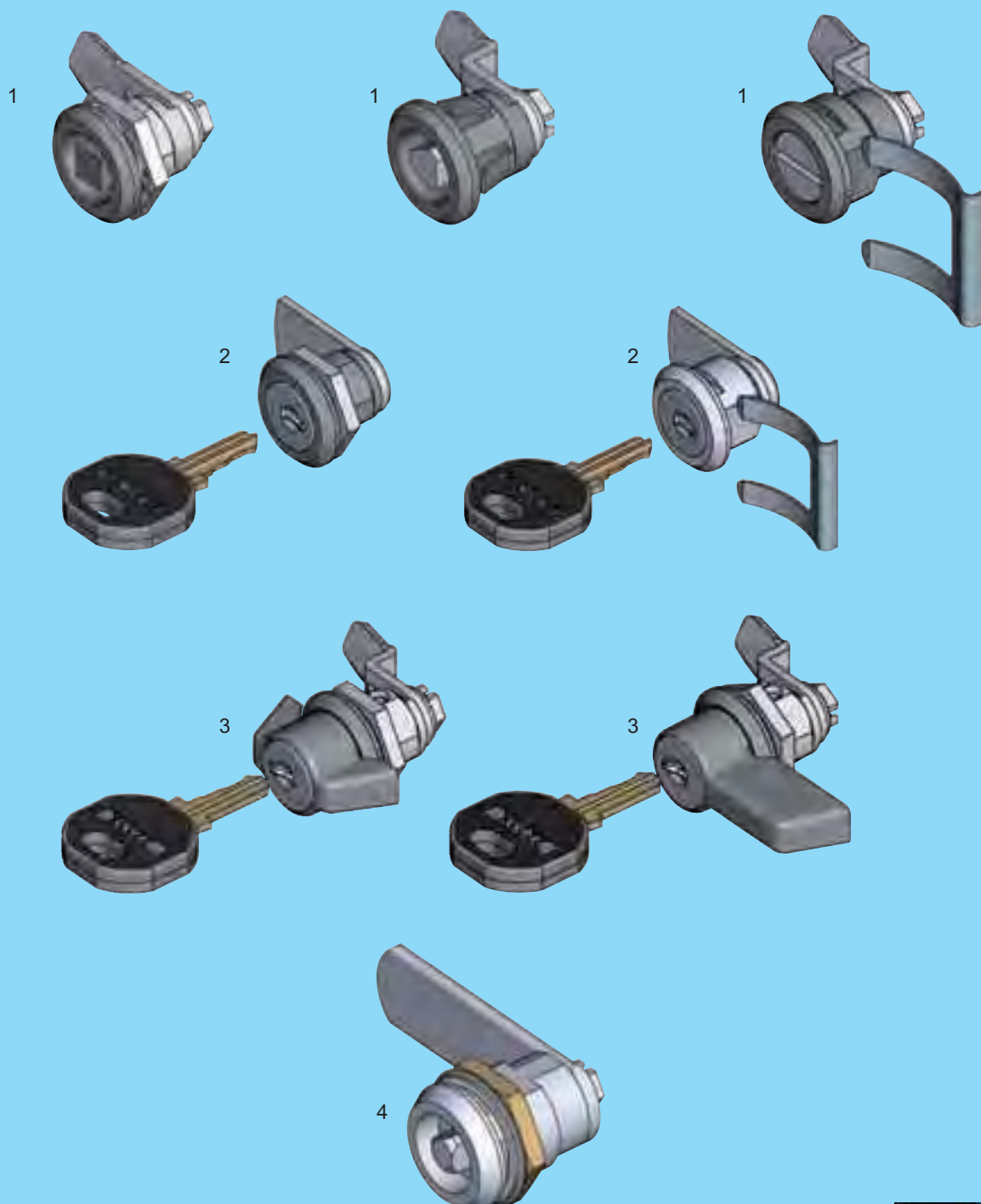
Note:

In unfavourable storage conditions or when incorrectly handled, most rubber products will change their physical properties and be of no further use due to excessive hardening, softening, permanent set, flaking, cracking, and other surface defects. Such changes can for example be caused by the effects of oxygen, ozone, heat, light, damp, solvents, or storage under tension.

Quarter turns

1022	1012	1000	Beschlagteile
Quarter turn small version	Quarter turn medium version	Quarter turn standard version	
1A-100	1A-100	1B-100	see page
			
•	•	•	Screw-in
•		•	Clip-in
•		•	With spring fixing
		•	Weld-on
IP 65	IP 65	IP 65/IP 66	Protection: IP
20/22	22	28/30/32/□28	Head diameter
3	4	4/5/6/24	Head height
13,5	20	18-60	Housing length
•		•	Polyamide
•	•	•	Zinc die
		•	Mild steel
•		•	Stainless steel
•		•	Sealing separate
		•	Foamed sealing
		•	Cam polyamide
•	•	•	Cam m.s.
		•	Cam stainless steel
•	•	•	Insert
•		•	Round cylinder
•		•	Wing knob
		•	T-Handle
		•	L-Handle
		•	Radial cylinder
		•	Padlock
		•	Safety quarter turn
		•	Compression latch
		•	Locking for fire brigade
		•	Railroad
		•	FIAT
		•	Quarter turn for Swedish power companies
		•	Slam cam
		•	Hooked lever assembly
•	•	•	Dust cap
		•	Finger pull
		•	Inside handle

Quarter turns small and medium version, Program 1012, 1022

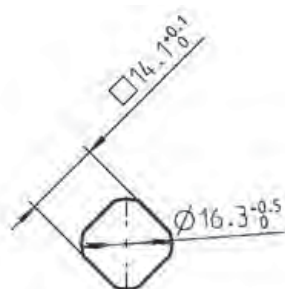
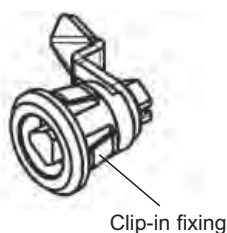
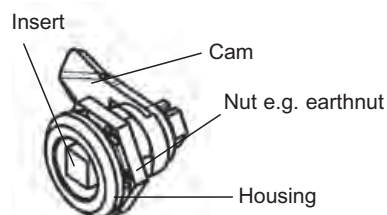


- | | | |
|---|---------------------------|--------|
| 1 | Quarter turns with insert | 1A-120 |
| 2 | Cylinder quarter turns | 1A-160 |
| 3 | Wing knobs | 1A-140 |
| 4 | Quarter turns with insert | 1A-420 |

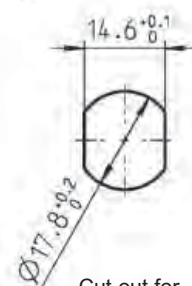
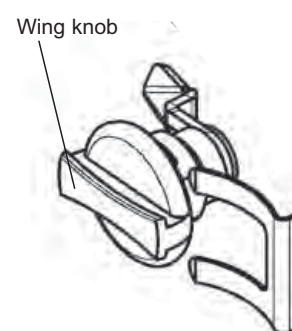
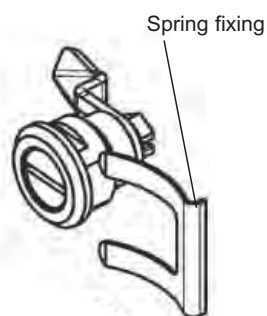
1A-100

Quarter turn, small version

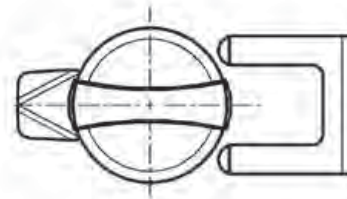
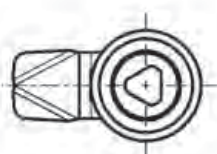
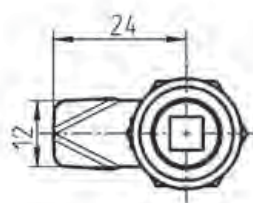
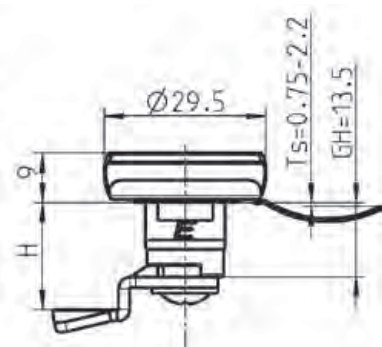
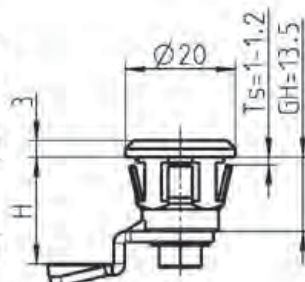
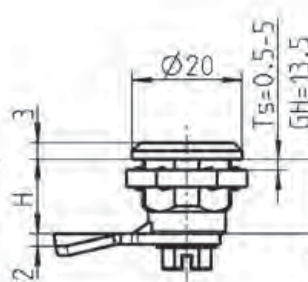
PROGRAM 1022



Cut out for nut and clip-in fixing



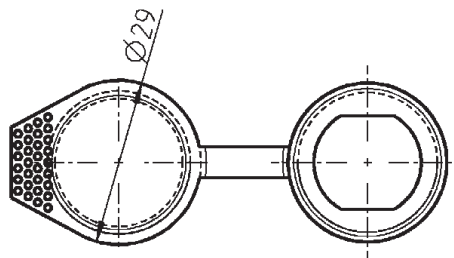
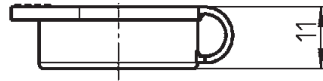
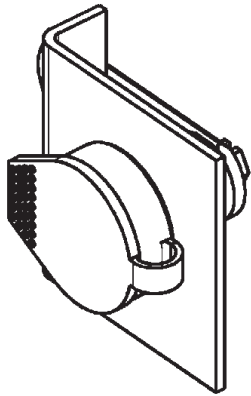
Cut out for spring fixing



Housing zinc die, PA or stainless steel with nut or spring fixing m.s. zinc plated or stainless steel

	Zinc die chrome plated	Zinc die black powder coated	Stainless steel AISI 303	Polyamide black	
with nut ¹⁾ m.s. ²⁾ AISI 303	1022-U8 ¹⁾	1022-U46 ¹⁾	1022-U60 ²⁾	1022-U71 ¹⁾	
with earthnut m.s.	1022-U9	1022-U47	—	—	
Clip-in fixing	—	—	—	1022-01-02	
with spring fixing	1022-U76	1022-U77	—	1022-U78	
Insert zinc die, PA or stainless steel, fixing material m.s. zinc plated					Key zinc die black
Square 6	1022-U2	1022-U44	1022-U61	1022-U72	1004-20
Triangular 6,5	1022-U1	1022-U43	1022-U62	1022-U73	1004-21
Slot 1,5	1022-U3	1022-U45	1022-U63	1022-U74	
Blank	1022-U4	—	1022-U64	1022-U75	
Wing knob	—	—	—	1022-U82	

Accessories



Attention:
Not suitable for housings with spring or clip fixing.



Cam m.s. zinc plated, t = 2

H = 7,5	1022-20
13,5	1022-07
19,5	1022-08

IP 65 with:

– O-ring	1022-09
– Flat seal	1022-10

not possible with spring fixing

Assembly request

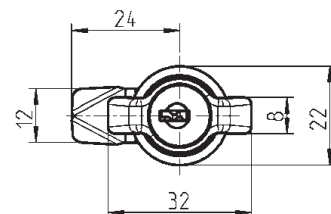
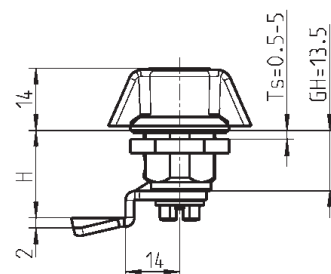
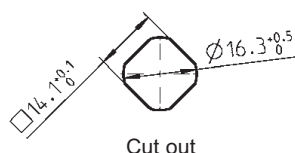
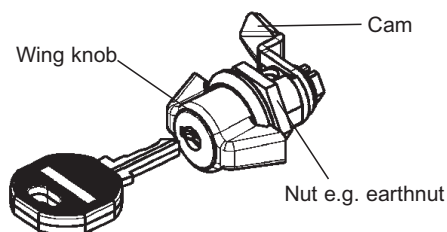
without O-ring	1022-990
with O-ring	1022-991

Accessories

Dust cap polyethylene black	1022-23-01
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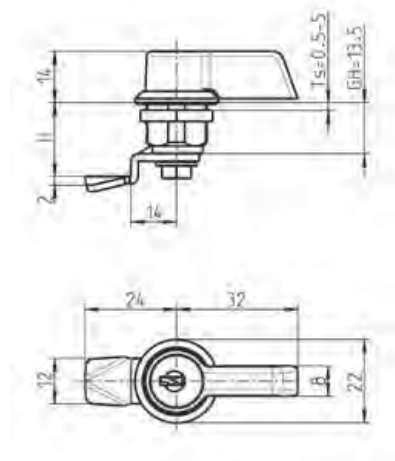
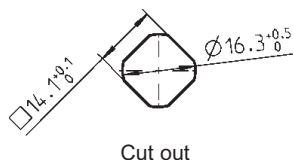
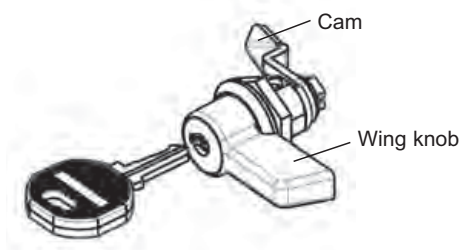
Attention:
By using the dust cap 1022-23-01 dimension H will be reduced by 2 mm

Application area:
Small doors and panels



Wing knob with housing zinc die, round cylinder zinc die with stainless steel cap, nut or earthnut and screw m.s. zinc plated; each round cylinder has one silver steel key with polyamide grip GF black

with polyamide grip - black						
non locking*	keyed 2233X	keyed different		non locking*	keyed 2233X	keyed different
chrome plated				black powder coated		
1022-U29	1022-U31	1022-U33	Nut	1022-U37	1022-U39	1022-U41
1022-U30	1022-U32	1022-U34	Earthnut	1022-U38	1022-U40	1022-U42
Cam m.s. zinc plated, t = 2						
H = 7,5	1022-20	H = 13,5	1022-07	H = 19,5	1022-08	



Wing knob with housing zinc die, round cylinder zinc die with stainless steel cap, nut or earthnut and screw m.s. zinc plated; each round cylinder has one silver steel key with polyamide grip GF black

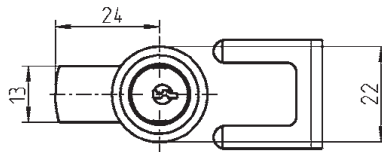
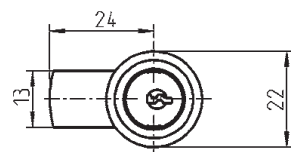
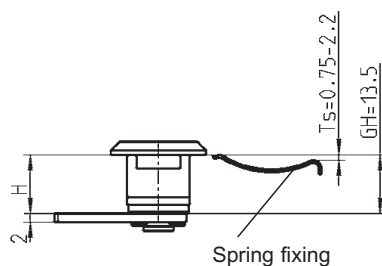
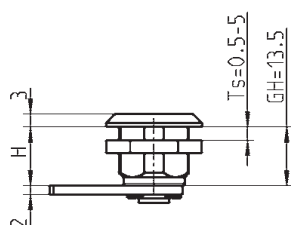
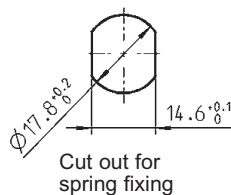
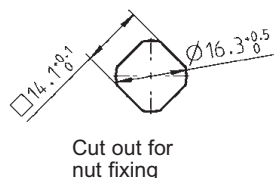
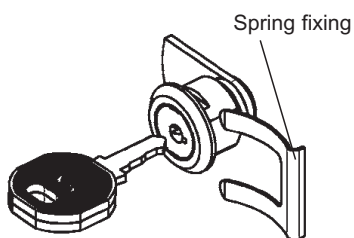
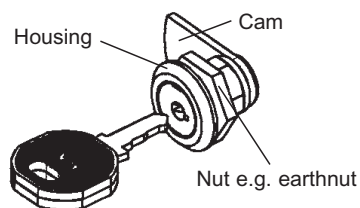
non locking*	keyed 2233X	keyed differ-		non locking*	keyed 2233X	keyed differ-
chrome plated				black powder coated		
1022-U48	1022-U50	1022-U52	nut	1022-U54	1022-U56	1022-U58
1022-U49	1022-U51	1022-U53	earthnut	1022-U55	1022-U57	1022-U59
Cam m.s. zinc plated, t = 2						
H = 7,5	1022-20	H = 13,5	1022-07	H = 19,5	1022-08	

Operating area:
Small doors and panels

Cylinder quarter turn, small version

PROGRAM 1022

Beschlagteile



Cylinder quarter turn, material on choice, zinc die chrome plated or polyamide GF black, nut or earthnut and safety washer m.s. zinc plated

1) with one key silver steel and grip polyamide black

2) with one key m.s. nickel plated

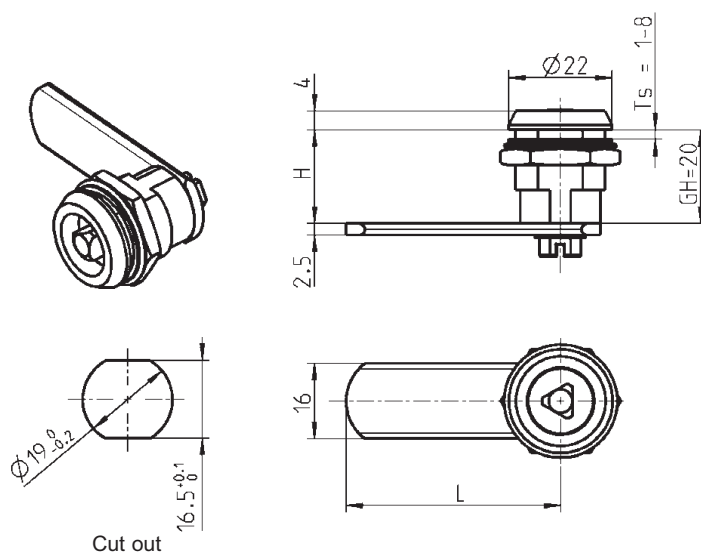
Locking system	H	Zinc die with nut	Zinc die with earthnut	Polyamide with nut
		1)	1)	2)
keyed 2233X	7,5	1022-U16	1022-U22	1022-U65
	13,5	1022-U17	1022-U23	1022-U66
	19,5	1022-U18	1022-U24	1022-U67
keyed different	7,5	1022-U19	1022-U25	1022-U68
	13,5	1022-U20	1022-U26	1022-U69
	19,5	1022-U21	1022-U27	1022-U70
Locking system	H	Zinc die with spring fixing		
		1)		
keyed 2233X	7,5	1022-U10		
	13,5	1022-U11		
	19,5	1022-U12		
keyed different	7,5	1022-U13		
	13,5	1022-U14		
	19,5	1022-U15		

Application area:
Small doors and panels

Notes:

Quarter turn with built-in options, medium version

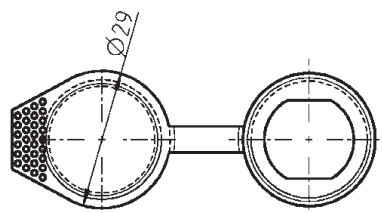
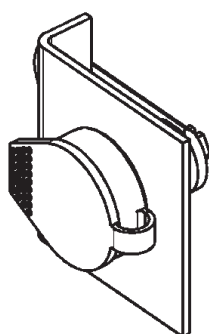
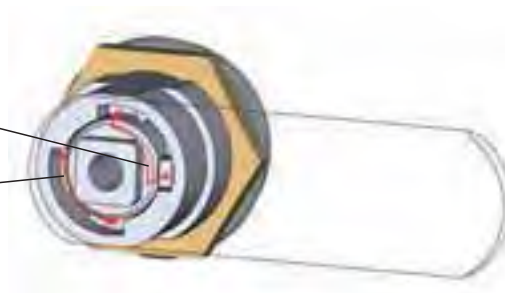
PROGRAM 1012



2 in 1

Version A

Version B



This Quarter turn has two options.

Version A:

Press down insert
turn quarter turn.
Cam snaps into place.
Vibration proof op.

Version B:

Turn insert for standard
quarter turn operation.

Note:

The quarter is of a vibration-proof design. This depends on the installation location and operational conditions. Specific checks are necessary and/or supplementary measures of fastening required.



Other insert on request

Cam with other dimensions
(H and L) on request.

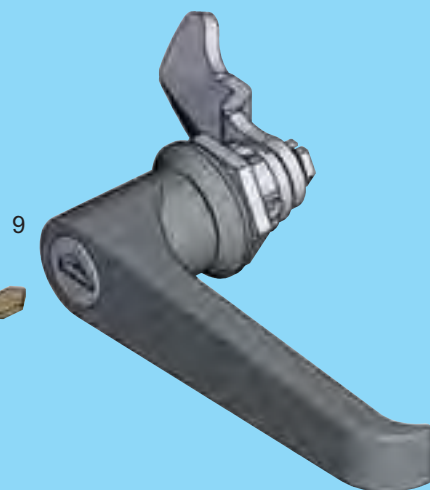
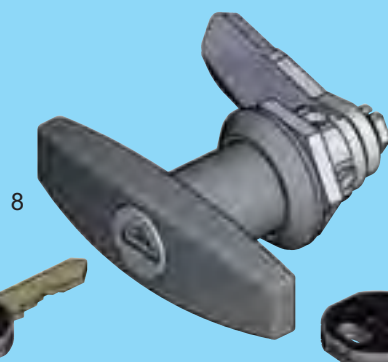
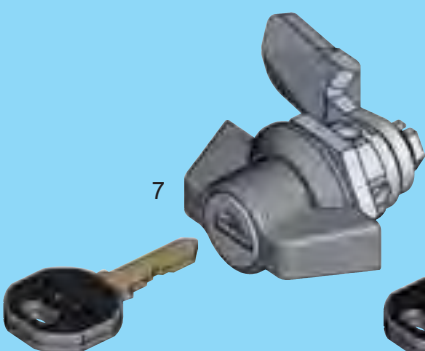
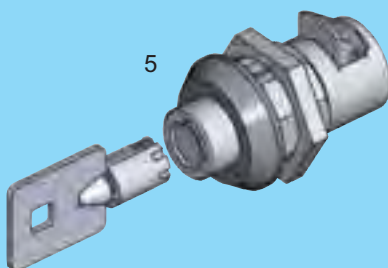
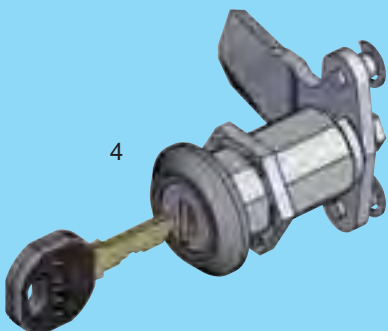
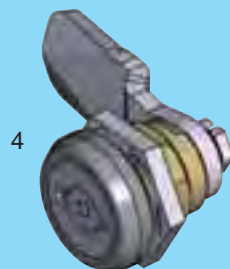
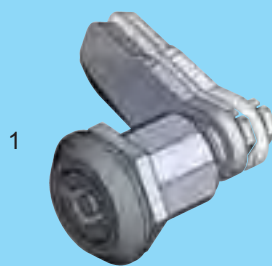
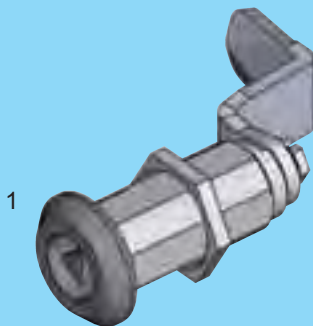
Complete quarter turn:
Housing with insert zinc die nickel plated,
Nut brass, screw m.s.zinc plated
with spring and seal

		Key
Square 7	1012-U2	1004-36
Triangular 6,5	1012-U1	1004-21
Double bit 3	1012-U3	1004-34
Slot 2 x 2,5 coinproof	1012-U4	—
Cam m.s. zinc plated		
H = 20 ; L = 46	1012-05	
Lock washer Fst zinc plated	1012-06-JG	
Dust cap polyethylene black		
	1012-08	

1A-420

(1D-140)

Quarter turns standard version, Program 1000



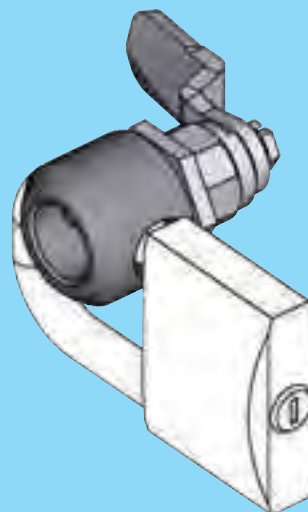
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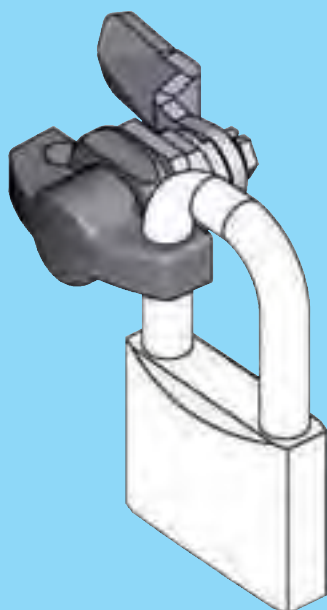
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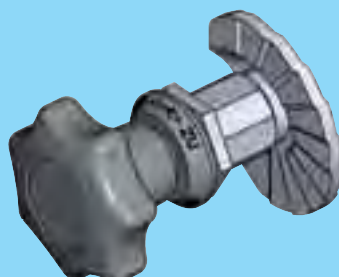
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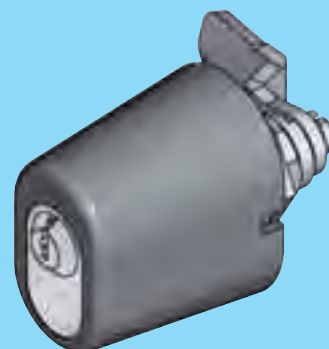
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12



13

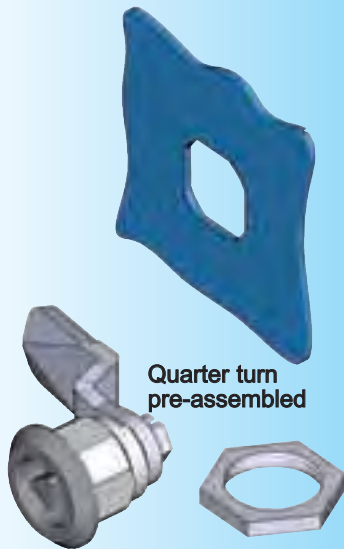


- 1 Quarter turn screw on e.g. with insert
- 2 Quarter turn with spring fixing e.g. with insert
- 3 Clip-in quarter turn e.g. with wing knob
- 4 Safety quarter turn
- 5 Radial pin-push cylinder
- 6 Quarter turn with cylinder
- 7 Wing knob
- 8 T-Handle
- 9 L-Handle
- 10 Quarter turn with padlockable housing
- 11 Quarter turn for padlock
- 12 Quarter turn with stepped cam
- 13 Wing knob for ASSA-cylinder

- 1B-120 up to 1B-360, 1B-680 bis 1B-860
- 1B-160
- 1B-160, 1B-760
- 1B-320 up to 1B-360
- 1B-380
- 1B-420
- 1B-540
- 1B-520, 1B-560
- 1B-580 up to 1B-640
- 1B-680
- 1B-680
- 1B-240
- 1B-840



1B-100



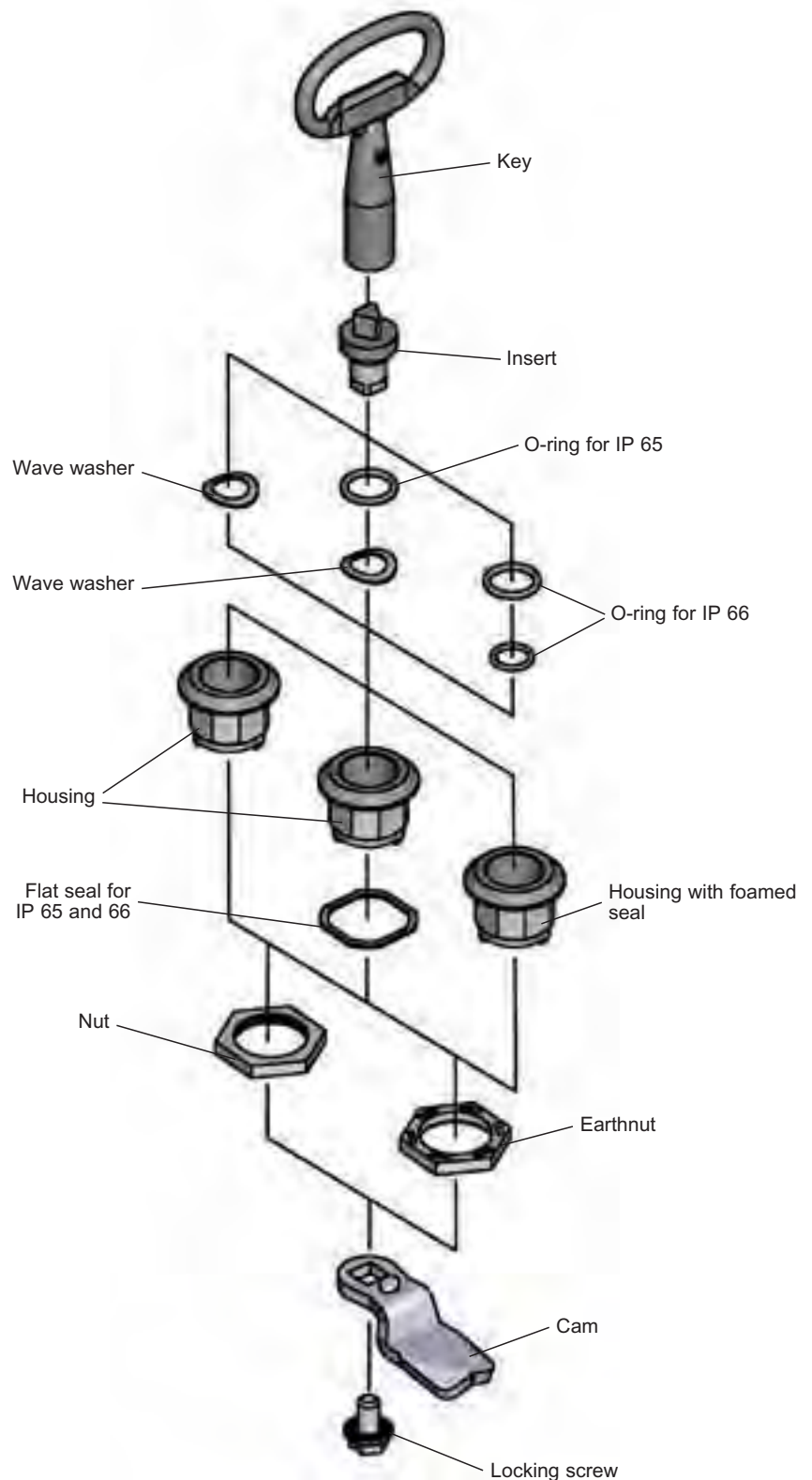
Pass through cut out



Assemble the nut



Ready for operating



Screw-in safety earthing quarter turn program

By use of the afore mentioned earthnut our screw-in quarter turn is in accordance to the standard VDE-Vorschrift 0660/part 5.

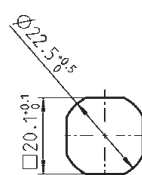
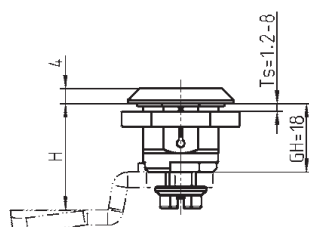
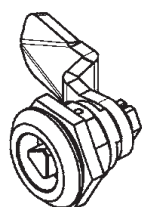
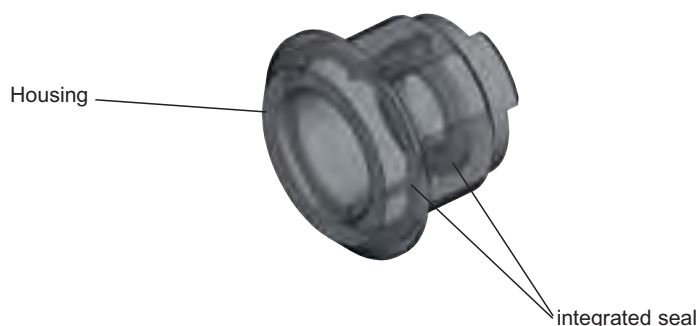
The earthnut is produced with teeth, which under pressure removes the enamel in a limited way and ensures there is metallic continuity (earthing).

Standard nuts do not meet this requirement due to the high quality of the enamel.

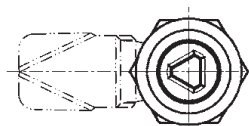
Quarter turn with integrated IP 65 seals

PROGRAM 1000

Beschlagteile



Cut out



Housing polyamide 6 GF 30 black with integrated TPE seal*
with nut m.s. zinc plated

Head diameter	28	32
Head height	4	6
	1000-U155-D	1000-U46-D

Insert polyamide 66 GF 50 black with screw m.s. zinc plated

Square 7	1000-U184-N2
Square 8	1000-U185-N2
Triangular 8	1000-U186-N2
Double bit 3	1000-U187-N2
Double bit 5	1000-U188-N2
Slot 2 x 4	1000-U196-N2

Assembling on request

1000-990

* The TPE seal provides protection against penetration of water, aqueous solution, alcohol, antifreeze, saline solution (15 %), sulphuric acid (98 %), hydrochloric acid and caustic soda. A very good resistance against hydrolysis is provided.
In case of prolonged contact with oil and fuel then the problem of swelling or hardening could arise. Occasional lubrication will help to prevent these problems.

Attention:

In case of assembling by the customers the insert must be lubricated (Vaseline).

Further parts see page

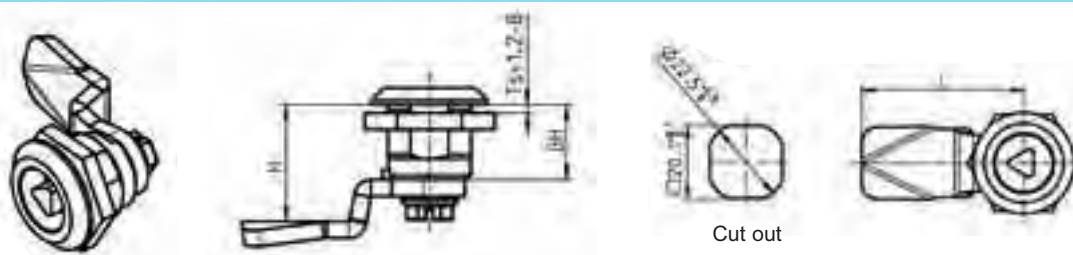
– Cam	up to 1C-120
	from 1C-220
– Accessories	3B-140
– Escutcheon	12B-120
– Key	

1B-120

(1B-142)

Quarter turn; Housing GH = 18 and 30 - 60; Insert; Seal

PROGRAM 1000

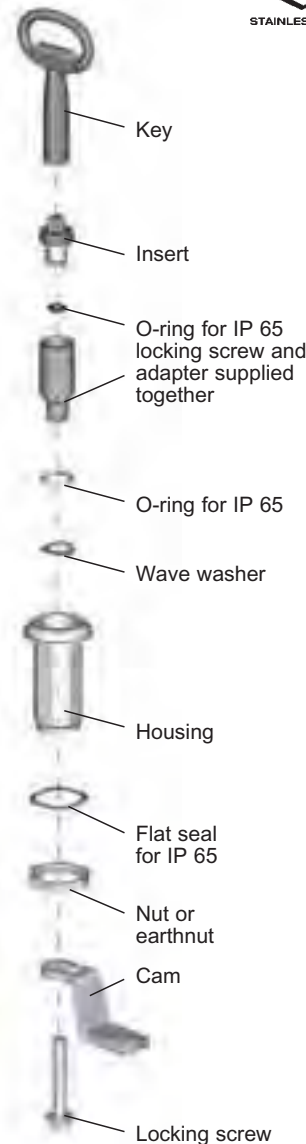
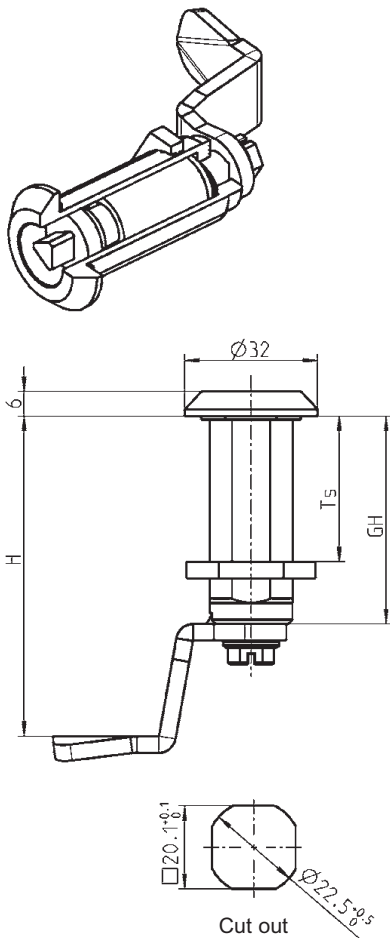


Cut out

Housing with nut or earthnut m.s. zinc plated								
Head diameter								
Head height								
Material:	Nut	Earthnut	Nut	Earthnut	Nut	Earthnut	Nut	Earthnut
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
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 black	1000-U155	—	—	—	1000-U46	—	—	—
Poly GF black (with foamed seal)	1000-U155-G	—	—	—	1000-U46-G	—	—	—
Stainless steel (with foamed seal) AISI 304 AISI 316	1000-U134 1000-U530	— —	— —	— —	— —	— —	— —	— —
Insert zinc die, polyamide or stainless steel, fixing material m.s. zinc plated e.g. stainless steel		Zinc die chrome pl.		Zinc die black	PA 66 GF 50 black	Stainl. steel AISI 304	Stainl. steel AISI 316	
		Square 6	1000-U17	1000-U322	—	1000-U351	—	
		Square 7	1000-U1	1000-U323	1000-U184-N	1000-U135	1000-U531	
		Square 8	1000-U2	1000-U324	1000-U185-N	1000-U136	1000-U532	
		Square 8 slotted	1000-U18	—	—	1000-U352	—	
		Triangular 6,5 CNOMO	1000-U197	—	—	—	—	
		Triangular 7	1000-U3	1000-U325	—	1000-U334	1000-U536	
		Triangular 8	1000-U4	1000-U326	1000-U186-N	1000-U335	1000-U537	
		Triangular 9	1000-U194	—	—	—	—	
		Triangular 10	1000-U249	—	—	—	—	
		Double bit 3	1000-U5	1000-U327	1000-U187-N	1000-U183	1000-U533	
		Double bit 5	1000-U6	1000-U328	1000-U188-N	1000-U137	1000-U534	
		Hexagon female 10	1000-U96	—	—	—	—	
		Square female 6	1000-U168	—	—	—	—	
		Square female 7	1000-U182	—	—	—	—	
		Square female 8	1000-U169	—	—	—	—	
		Daimler Benz	1000-U20	—	—	—	—	
		Slot 1,2 x 3	1000-U195	—	—	—	—	
		Slot 2 x 4	1000-U142	1000-U329	1000-U196-N	1000-U630	1000-U631	
		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 with pin	1000-U757	—	—	1000-U757-01	—	
					PA GF/Z. die black	PA GF black AISI 304		
		Star handle Wing knob	—	—	1000-U13 1000-U78	1000-U138 1000-U510		

Star handle

Wing knob



Assembling instruction



IP 65 with:

Flat seal	1000-23
O-ring	1000-24

IP 66 with:

Seal-set	1000-U769
----------	-----------

Assembly on request:

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

Housing with nut or earthnut m.s. zinc plated

GH	Ts 1,5 –	Zinc die chrome plated		Zinc die black powder coated		PA black
		Nut	Earthnut	Nut	Earthnut	
30 mm	20 mm	1000-U51	1000-U65	1000-U225	1000-U226	–
– adapter				1000-U164		
36 mm	26 mm	1000-U246	1000-U248	1000-U317	1000-U318	–
– adapter				1000-U198		
40 mm	30 mm	1000-U66	1000-U67	1000-U227	1000-U228	1000-U737
– adapter				1000-U165		
50 mm	40 mm	1000-U68	1000-U69	1000-U229	1000-U230	1000-U736
– adapter				1000-U166		
60 mm	50 mm	1000-U504	1000-U505	1000-U506	1000-U507	–
– adapter				1000-U535		

Note:

Quarter turn assembling 1B-105

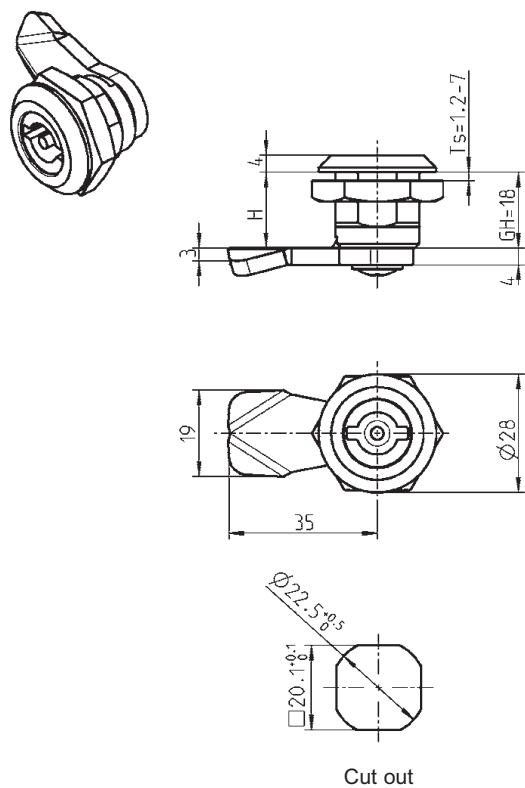
Further parts see page

– Housing	1B-760
	1B-680
	1B-820
– Quarter turn with stepped cam	1B-240
– Cam	1C-120
	up to 1C-220
– Accessories	from 1C-220
– Insert with wing knob	1B-720
– Escutcheon	3B-140
– Door lock prominent	12A-220
– Key	12B-120

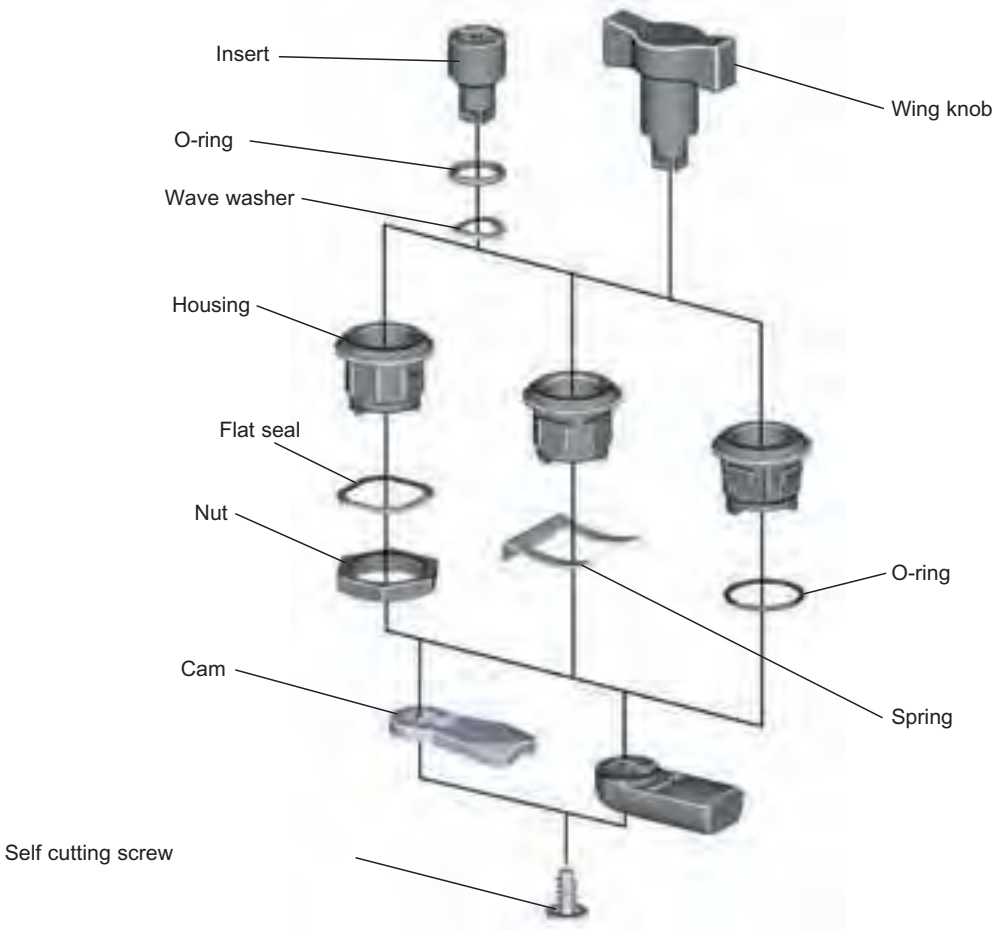
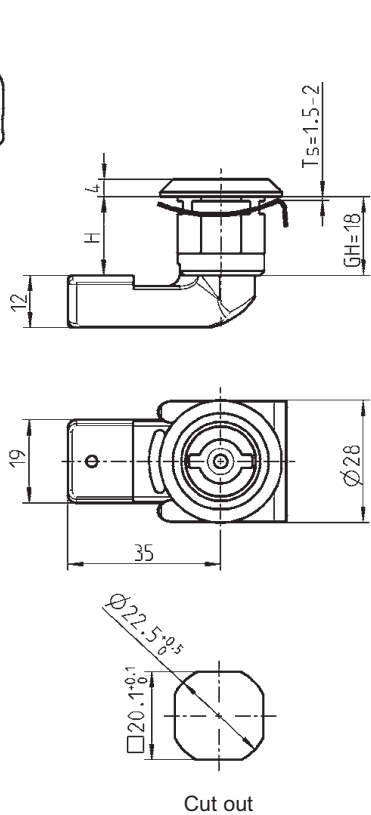
Plastic quarter turn

PROGRAM 1000

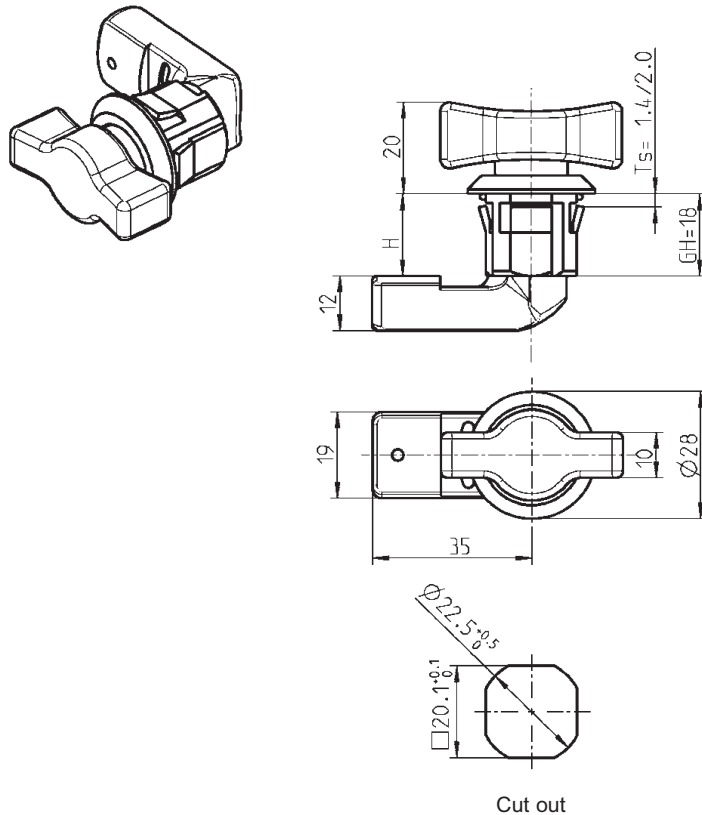
Nut fixing



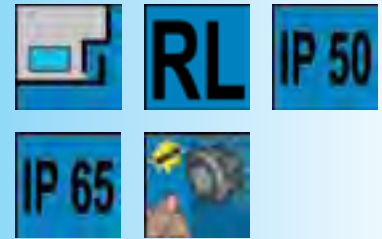
spring fixing



Clip-in fixing



Cut out



Housing polyamide GF black with nut or spring fixing AISI 301

Housing polyamide black with O-ring

*nut fixing	Spring fixing	Ts	clip-in
1000-U675	1000-U709	1,4**	1000-U695
		2,0	1000-U696

Insert polyamide black, wave washer and self cutting screw m.s. zinc plated

Square 7	1000-U666
Square 8	1000-U676
Triangular 8	1000-U667
Double bit 3	1000-U677
Double bit 5	1000-U678
Slot 2 x 4	1000-U679
Eastern Europe Ø 13	1000-U680
Wing knob (IP 50), IP 65 upon request	1000-U711

Cam on choice

H	m.s. zinc plate, t=4	polyamide black
18	1000-5046	1000-386-18
20	1000-5161	1000-386-20
22	1000-5119	1000-386-22
24	-	1000-386-24
28	1000-5164	1000-386-28
30	-	1000-386-30

IP 65 (see housing) with:

Flat seal (nut fixing only)	1000-23
O-ring	1000-24

Note:

Quarter turn assembling 1B-105

Further parts see page

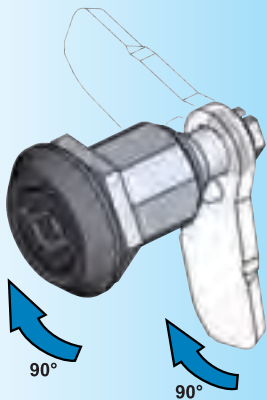
– Insert with wing knob	1B-720
– Handle (only nut fixing)	1C-320
– Dust cap (only nut fixing)	1C-320
– Key	12B-120

Compression latch PROGRAM 1000

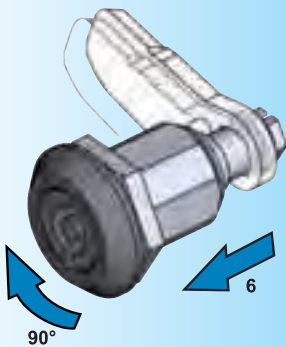


Shake and vibration proof

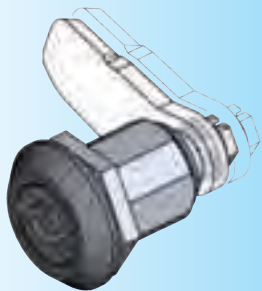
This lock is of a vibration-proof design. This depends on the installation location and operational conditions. Specific checks are necessary and/or supplementary measures of fastening required.



Open condition
The cam is rotated as soon as you turn the insert by 90°.



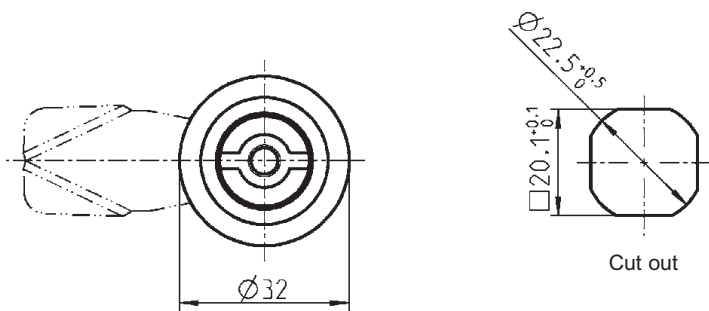
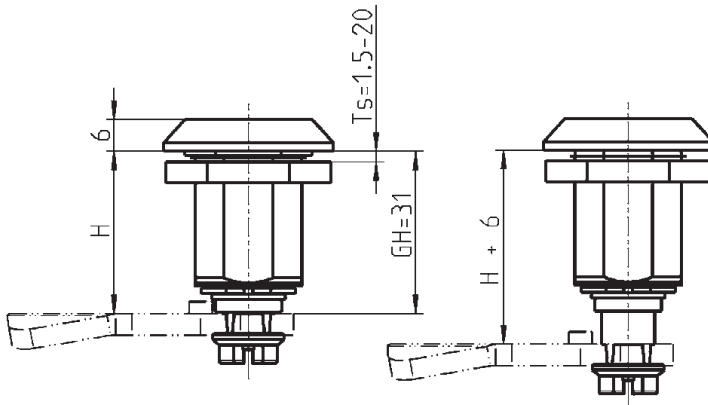
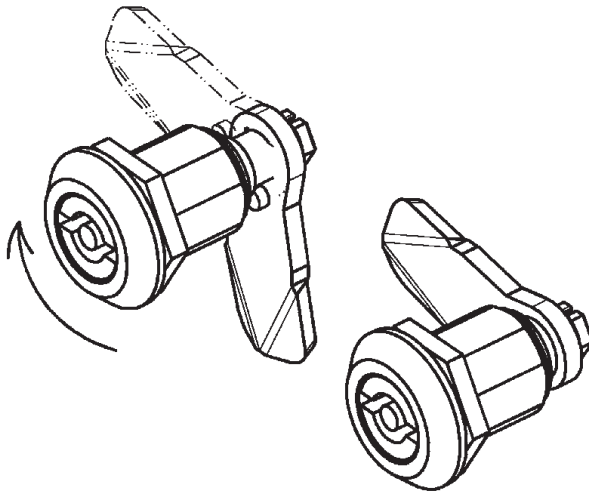
Half-open condition
If you continue with rotating the insert by another 90° the cam is moved by 6 mm in an axial direction.



Closed position

Unlock:
Reversed rotation

Further parts see page
– Cam (GH = 32) 1C-130
Attention: This cam the dimension H will be reduced by 1 mm
– Accessories from 1C-320
– Escutcheon 3B-140
– Key 12B-120



Housing and insert zinc die, black powder-coated.
Nut and screw m.s. zinc plated with spring and seal,
further inserts available on request.

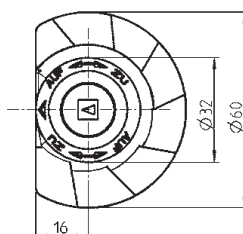
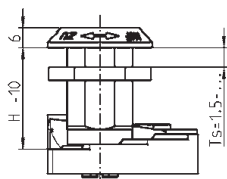
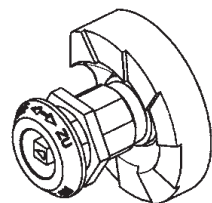
Square 8	1000-U755
Triangular 8	1000-U783
Double bit 3	1000-U749
Double bit 5	1000-U748
Slot 1,2 x 3	1000-U750
Slot 2 x 4	1000-U777

Quarter turn with stepped cam

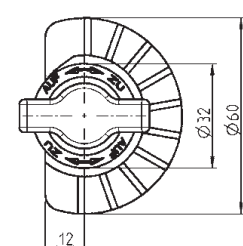
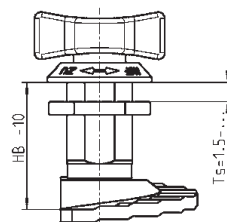
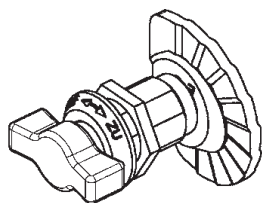
PROGRAM 1000

Beschlagteile

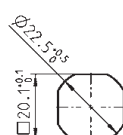
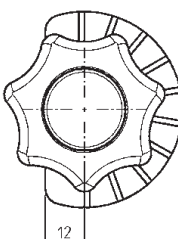
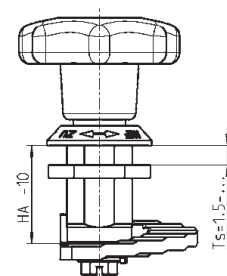
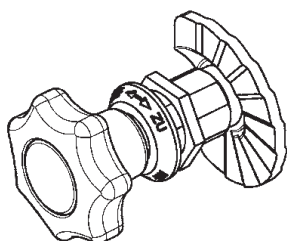
Version A



Version B



Version B



Cut out



Housing with 270° stop

Stepped cam

Version A m.s. zinc plated, without stop 1000-127

m.s. zinc plated, with stop 1000-244

Version B zinc die, with stop 1000-387

Housing zinc die with screw and nut, m.s. zinc plated

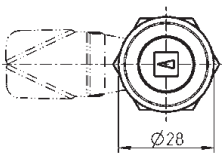
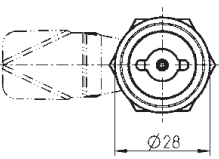
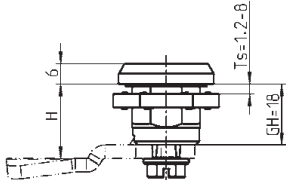
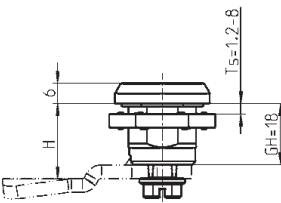
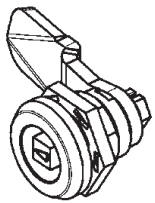
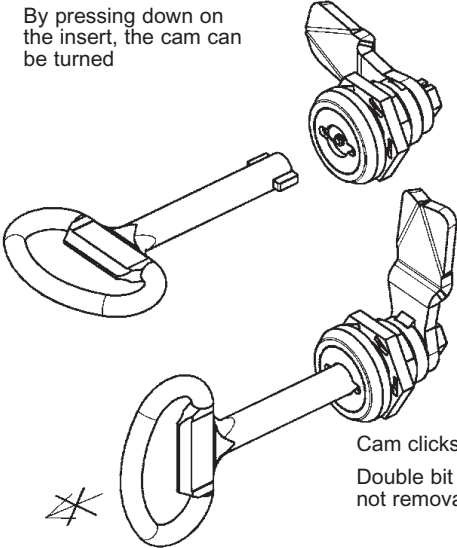
Ts	H	HA	HB	Housing zinc die		with adapter zinc die	Spacer zinc die
1,5 up to				chrome pl.	black powder coated	(Flush mounted insert)	for 5 mm tolerance and screw zinc plated
8	19	19	27	1000-U157	1000-U231	no need	1000-U539
20	31	31	39	1000-U158	1000-U232	1000-U164	1000-U540
26	37	37	45	1000-U247	1000-U250	1000-U198	1000-U541
30	41	41	49	1000-U159	1000-U233	1000-U165	1000-U542
40	51	51	59	1000-U160	1000-U234	1000-U166	1000-U543

Advice:
Quarter turn-Assembling 1B-105

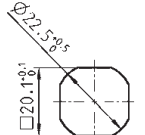
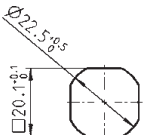
Further parts see page
 – Insert 1B-140
 – IP65 or IP 66 1B-140
 – Accessories from 1C-320
 – Escutcheon 3B-140
 – Key 12B-120



By pressing down on the insert, the cam can be turned



This lock is of a vibration-proof design. This depends on the installation location and operational conditions. Specific checks are necessary and/or supplementary measures of fastening may be required.



Cut out

Cut out

Right-hand version

Safety quarter turn
Tamper- and vibration-proof. With the double bit version the key is captive in the open position.

Hole for the double bit to DIN 43668.
Sealed about water and dust like IP 65 DIN 40050.

Available with pre-assembled cam.

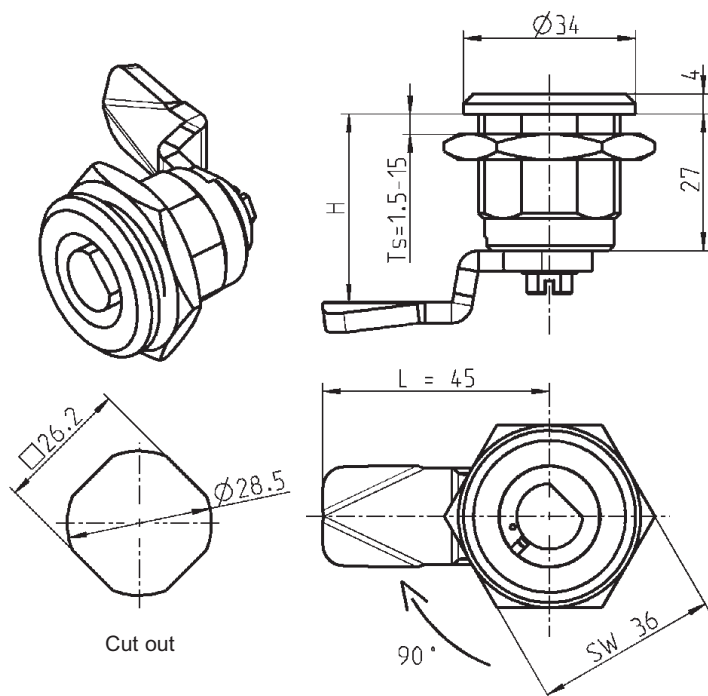
Further parts see page

- Cam 1C-120
1C-140
- Accessories 1C-320
1C-360
1C-380
3B-140
- Escutcheon 3B-140
- Safety quarter turn stainless steel 8A-120
- Key 12B-120

Housing brass, insert zinc die, nut and earthnut m.s. zinc plated, with seal	black powder coated		chrome plated	
	without shutter	with shutter	without shutter	with shutter
Double bit 3 mm RH version	1000-U252-01	1000-U687	1000-U202-01	1000-U691
Double bit 3 mm LH version	1000-U254-01	1000-U688	1000-U204-01	1000-U692
Double bit 5 mm RH version	1000-U256-01	1000-U689	1000-U206-01	1000-U693
Double bit 5 mm LH version	1000-U258-01	1000-U690	1000-U208-01	1000-U694
Square 6 mm RH/LH version	1000-U260-01	–	1000-U210-01	–
Square 7 mm RH/LH version	1000-U262-01	–	1000-U212-01	–
Square 8 mm RH/LH version	1000-U264-01	–	1000-U214-01	–
Triangular 7 mm RH/LH version	1000-U266-01	–	1000-U216-01	–
Triangular 8 mm RH/LH version	1000-U268-01	–	1000-U218-01	–
Slot 2x4 mm RH/LH version	1000-U652-01	–	1000-U655-01	–
Eastern Europe Ø 13 halfround, 90° and 180° RH/LH version	1000-U713-01	–	–	–
Railroad, insert AISI 303 RH/LH	1000-U732-01	–	1000-U733-01	–

Safety quarter turn Eastern Europe half-round PROGRAM 1000

Beschlagteile



Attention:

Cut-out differs from standard

The spring loaded insert in the direction of arrow (type: Eastern Europe – Ø 13) can only be operated with a special key. Key only removable in the closed position.



Housing zinc die or PA and insert zinc die zinc plated, nut and earthnut m.s. zinc plated

Zinc die black p.c. 1000-U746-01

Polyamide black 1000-U747

Key zinc die, raw 1004-45

Cam m.s. zinc plated

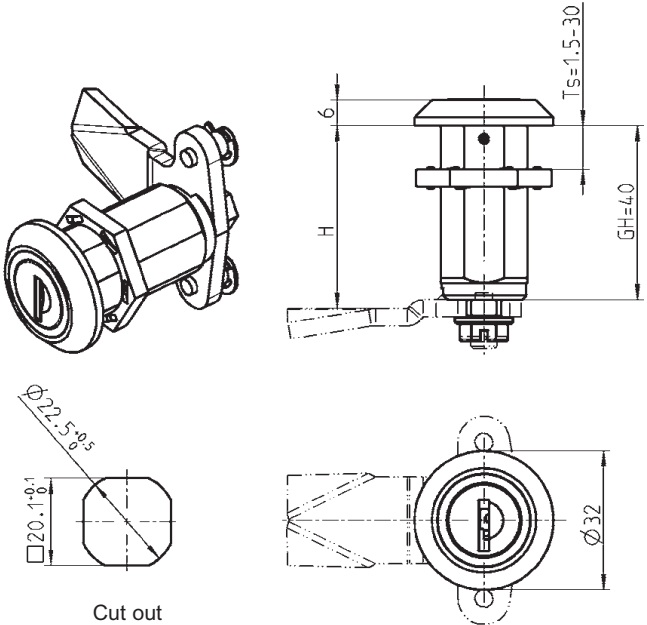
D. H in mm	Part-No.:	Dim.H in mm	Part-No.:
13	1000-112	29	1000-16
15	1000-22	31	1000-15
17	1000-113	33	1000-14
19	1000-21	34	1000-27
22	1000-20	35	1000-50
23	1000-19	37	1000-13
25	1000-18	39	1000-28
27	1000-17		

Further cams on request

Application area:
Electric power companies
in Eastern Europe

1B-340

(1B-250)



Safety quarter turn:
Removable cylinder, covered square insert, enables higher torque with square key.

Combination of quarter turn
and cylinder for 1- and 3-point
latch system.

Note:
Quarter turn assembling 1B-105

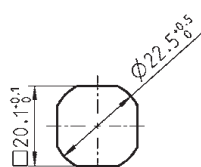
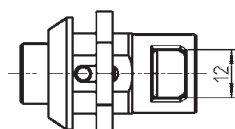
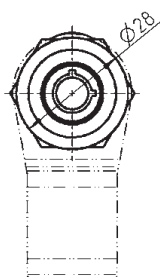
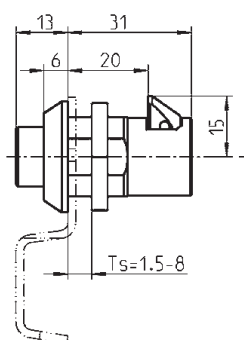
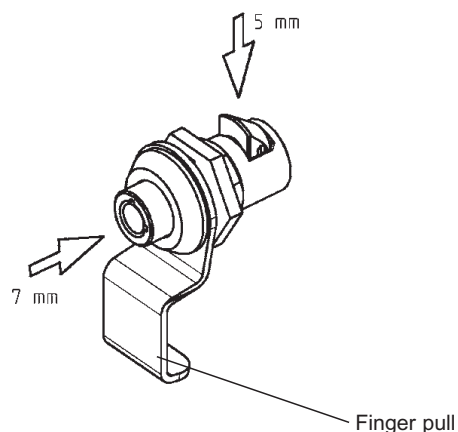
Further parts see page

– Cam (GH = 40)	up to 1C-120
	from 1C-220
– Accessories	1C-220
– Escutcheon	3B-140
– Key	12B-120

Safety quarter turn housing zinc die black powder coated, cylinder with stainless steel cap and shutter, insert female square 6 mm zinc die chrome plated, earthnut and fixing material m.s. zinc plated	
keyed EK 333	1048-U22
keyed different	1048-U23
Key square 6 mm male	1004-29-01
IP 65 with:	
Flat seal	1000-23
O-ring	1000-24
IP 66 with:	
Seal-set	1000-U769

Radial pin-push cylinder

PROGRAM 1000

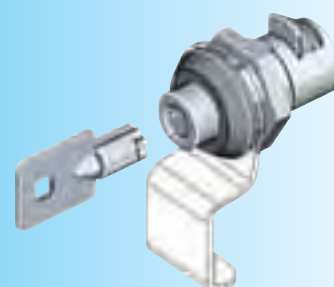


Cut out

Radial pin-push cylinder:

By turning the key 90° the push button is unlocked and can be operated.

The key is removable in both positions.



Application area:

Computer housings for German Railroad Company

Attention:

In case of using a finger pull the dimension H will be changed from 20* to 18 mm and TSmax will be 6 mm

Housing zinc die, pin cylinder brass/zinc die nickel plated, locking bolt zinc die plated, nut m.s. zinc plated

chrome plated

keyed 20001

1000-U742

keyed different

1000-U743

black powder coated

keyed 20001

1000-U751

keyed different

1000-U752

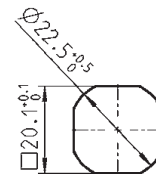
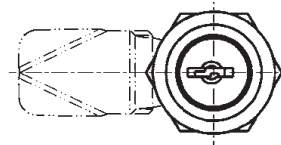
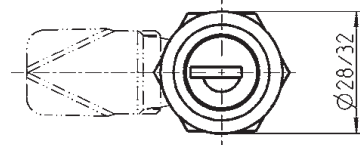
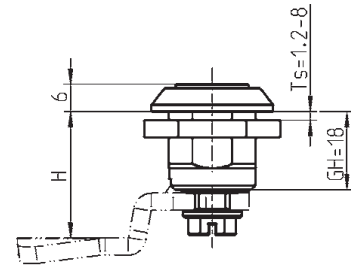
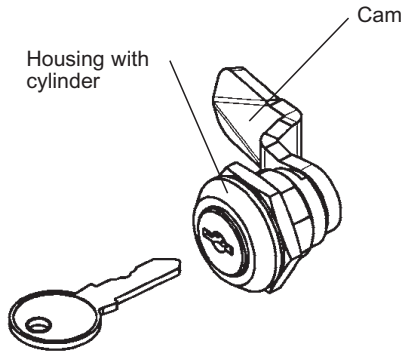
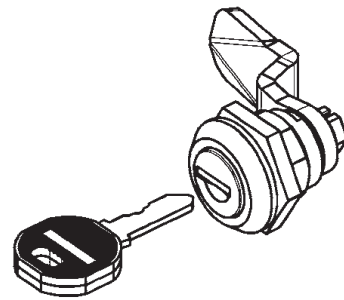
Further parts see page

– Finger pull 1C-320
– Escutcheon 3B-140

1B-380

(1B-260)

Quarter turn with cylinder PROGRAM 1000



Cut out

Quarter turn with cylinder, housing zinc die with cylinder zinc die, stainless steel cap and shutter. Each cylinder has one silver steel key with polyamide GF grip black. Screw and nut m.s. zinc plated. Key removable in both position

Locking system	Nut chrome plated	Earthnut	Nut black powder coated	Earthnut
D = 28 mm				
keyed EK 333	1048-U6	1048-U8	1048-U14	1048-U16
keyed different	1048-U7	1048-U9	1048-U15	1048-U17
D = 32 mm				
keyed EK 333	1048-U1	1048-U3	1048-U10	1048-U12
keyed different	1048-U2	1048-U4	1048-U11	1048-U13

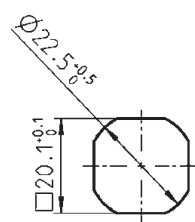
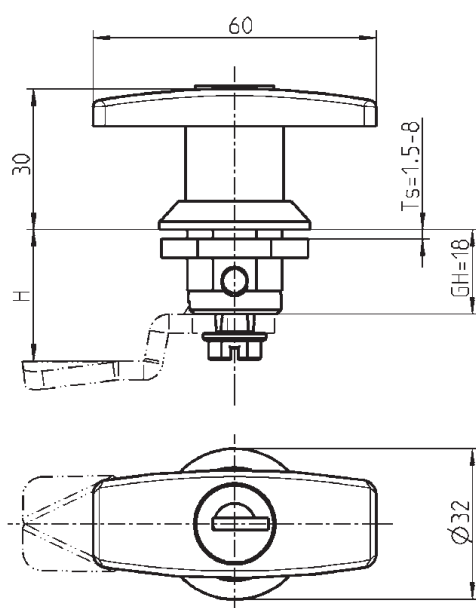
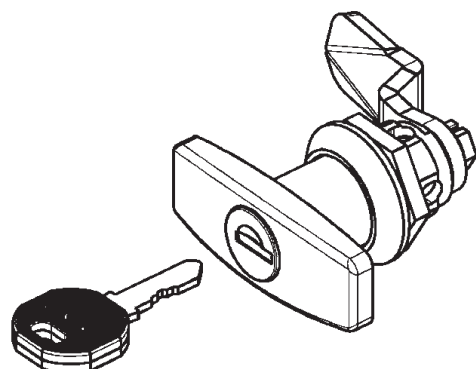
Quarter turn with cylinder, housing with cylinder polyamide GF black. Each cylinder has one m.s. nickel plated key. Screw m.s. zinc plated, nut m.s. zinc plated or polyamide black. Key removable in both positions

Locking system	Nut Nut zinc die c.p.	Earthnut	Nut Nut polyamide black	Earthnut
D = 28 mm				
keyed EK 333	1048-U18	—	1048-U27	—
keyed different	1048-U19	—	1048-U28	—
D = 32 mm				
keyed EK 333	1048-U20	—	1048-U25	—
keyed different	1048-U21	—	1048-U26	—

Further parts see page

– Cam	1C-120
	1C-140
(without 2-point rod control)	1C-160
– Slam cam	1C-180
– Accessories	1C-320
	1C-360
	1C-380
– Escutcheon	3B-140
– Spare key	12B-140

T-Handle, compact PROGRAM 1000



* IP 65

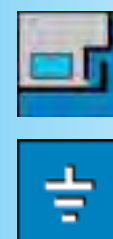
Cut out

Handle polyamide GF black, housing zinc die black p.c., cylinder zinc die with stainless steel cap and shutter, nut, earthnut and fixing material m.s. zinc plated.

Each cylinder has one silver steel key with polyamide grip black.

Key removable in both positions

	Nut	Earthnut
non locking	1000-U775	1000-U775-01
* Keyed EK 333	1000-U773	1000-U773-01
* Keyed different	1000-U774	1000-U774-01



Further parts see page

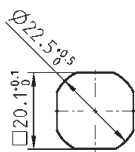
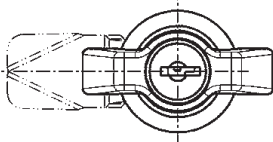
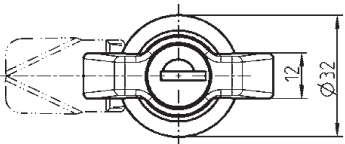
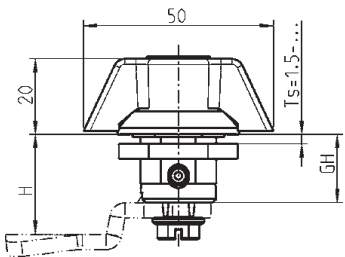
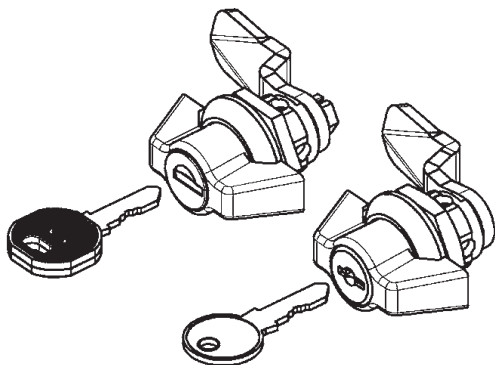
– Cam	up to 1C-120
	from 1C-220
– Accessories	up to 1C-340
– Escutcheon	from 3B-140
– Spare key	12B-140

1B-520

(1B-281)

Wing knob

PROGRAM 1000



Cut out

Cylinder zinc die

Each cylinder has one silver steel key with polyamide GF grip black.

Cylinder polyamide

Each cylinder has one m.s. nickel plated key.

Wing knob		Handle, housing zinc die chrome pl., with sealing nut, earthnut and screw m.s. zinc plated cylinder zinc die with stainless steel cap and shutter		
GH	Ts 1,5 -		keyed EK 333	Keyed
18 mm	8 mm	non locking		different
	with nut	1000-U149	1000-U150	1000-U151
	with earthnut	1000-U152	1000-U153	1000-U154
30 mm	20 mm			
	with nut	1000-U269	1000-U271	1000-U273
	with earthnut	1000-U270	1000-U272	1000-U274
40 mm	30 mm			
	with nut	1000-U275	1000-U277	1000-U279
	with earthnut	1000-U276	1000-U278	1000-U280
50 mm	40 mm			
	with nut	1000-U281	1000-U283	1000-U285
	with earthnut	1000-U282	1000-U284	1000-U286
60 mm	50 mm			
	with nut	1000-U633	1000-U635	1000-U637
	with earthnut	1000-U634	1000-U636	1000-U638

Beschlagteile



Wing knob

Handle abd housing zinc die black powder coated, earthnut and screw m.s. zinc plated, with seal cylinder zinc die, with stainless steel cap and shutter

GH	Ts 1,5 -	non locking	keyed EK 333	keyed different
18 mm	8 mm			
with nut		1000-U241	1000-U237	1000-U239
with earthnut		1000-U242	1000-U238	1000-U240
30 mm	20 mm			
with nut		1000-U403	1000-U405	1000-U407
with earthnut		1000-U404	1000-U406	1000-U408
40 mm	30 mm			
with nut		1000-U409	1000-U411	1000-U413
with earthnut		1000-U410	1000-U412	1000-U414
50 mm	40 mm			
with nut		1000-U415	1000-U417	1000-U419
with earthnut		1000-U416	1000-U418	1000-U420
60 mm	50 mm			
with nut		1000-U639	1000-U641	1000-U643
with earthnut		1000-U640	1000-U642	1000-U644

Wing knob IP 65

Handle, housing, nut and screw AISI 304, with seal

GH	Ts 1,5 -	non locking	keyed EK 333	keyed different
18 mm	8 mm			
with nut		1000-U665		

Wing knob

Handle polyamide black, housing zinc die black p.c., earthnut and screw m.s. zinc plated, with seal, cylinder zinc die with stainless steel cap and shutter

Handle, housing, Cylinder and nut: polyamide black (IP 40)

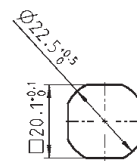
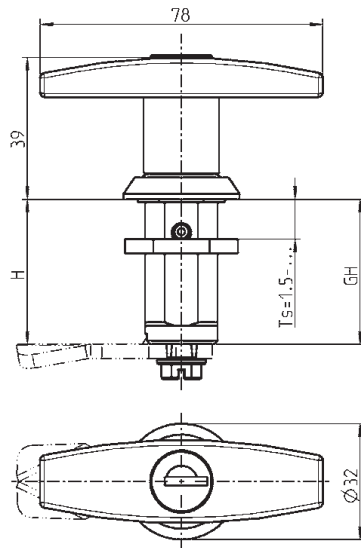
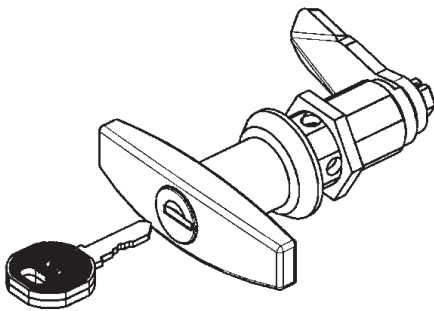
GH	Ts 1,5 -	non locking	keyed EK 333	keyed different	keyed EK 333	keyed different
18 mm	8 mm					
with nut		1000-U343	1000-U345	1000-U347	1000-U754	1000-U753
with earthnut		1000-U344	1000-U346	1000-U348		
30 mm	20 mm					
with nut		1000-U512	1000-U514	1000-U516		
with earthnut		1000-U513	1000-U515	1000-U517		
40 mm	30 mm					
with nut		1000-U518	1000-U520	1000-U522		
with earthnut		1000-U519	1000-U521	1000-U523		
50 mm	40 mm					
with nut		1000-U524	1000-U526	1000-U528		
with earthnut		1000-U525	1000-U527	1000-U529		
60 mm	50 mm					
with nut		1000-U645	1000-U647	1000-U649		
with earthnut		1000-U646	1000-U648	1000-U650		

Further parts see page

- Cam up to 1C-120
- Accessories from 1C-220
- Escutcheon 1C-340
- Spare key 3B-140
- 12B-140

T-Handle

PROGRAM 1000



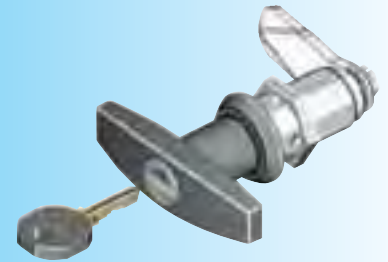
Cut out

Each cylinder has one silver steel key with polyamide GF grip black, screw and nut m.s. zinc plated. Key removable in both positions

T-Handle, suitable for KABA-cylinder type 1036 for standard locking or master key system on request.

T-Handle		Handle and housing zinc die chrome plated, nut, earthnut and screw m.s. zinc plated, with seal cylinder zinc die with stainless steel cap and shutter		
GH	Ts 1,5 -		keyed EK 333	Keyed
18 mm	8 mm	non locking		different
	with nut	1000-U9	1000-U10	1000-U11
	with earthnut	1000-U60	1000-U61	1000-U62
30 mm	20 mm			
	with nut	1000-U116	1000-U118	1000-U120
	with earthnut	1000-U117	1000-U119	1000-U121
40 mm	30 mm			
	with nut	1000-U122	1000-U124	1000-U126
	with earthnut	1000-U123	1000-U125	1000-U127
50 mm	40 mm			
	with nut	1000-U128	1000-U130	1000-U132
	with earthnut	1000-U129	1000-U131	1000-U133
60 mm	50 mm			
	with nut	1000-U594	1000-U596	1000-U598
	with earthnut	1000-U595	1000-U597	1000-U599

Beschlagteile



T-Handle		Handle and housing zinc die black powder coated, earthnut and screw m.s. zinc plated, with seal Cylinder zinc die with stainless steel cap and shutter		
GH	Ts 1,5 -	non locking	keyed EK 333	keyed different
18 mm	8 mm			
	with nut	1000-U337	1000-U338	1000-U339
	with earthnut	1000-U340	1000-U341	1000-U342
30 mm	20 mm			
	with nut	1000-U372	1000-U374	1000-U376
	with earthnut	1000-U373	1000-U375	1000-U377
40 mm	30 mm			
	with nut	1000-U378	1000-U380	1000-U382
	with earthnut	1000-U379	1000-U381	1000-U383
50 mm	40 mm			
	with nut	1000-U384	1000-U386	1000-U388
	with earthnut	1000-U385	1000-U387	1000-U389
60 mm	50 mm			
	with nut	1000-U600	1000-U602	1000-U604
	with earthnut	1000-U601	1000-U603	1000-U605

T-Handle IP 65		Handle, housing, nut and screw AISI 304, with seal		
GH	Ts 1,5 -	non locking	keyed EK 333	keyed different
18 mm	8 mm			
	with nut	1000-U664		

T-Handle		Handle polyamide black Housing zinc die black, nut, earthnut and screw m.s. zinc plated, with seal Cylinder zinc die with stainless steel cap and shutter		
GH	Ts 1,5 -	non locking	keyed EK 333	keyed different
18 mm	8 mm			
	with nut	1000-U546	1000-U548	1000-U550
	with earthnut	1000-U547	1000-U549	1000-U551
30 mm	20 mm			
	with nut	1000-U552	1000-U554	1000-U556
	with earthnut	1000-U553	1000-U555	1000-U557
40 mm	30 mm			
	with nut	1000-U558	1000-U560	1000-U562
	with earthnut	1000-U559	1000-U561	1000-U563
50 mm	40 mm			
	with nut	1000-U564	1000-U566	1000-U568
	with earthnut	1000-U565	1000-U567	1000-U569
60 mm	50 mm			
	with nut	1000-U606	1000-U608	1000-U610
	with earthnut	1000-U607	1000-U609	1000-U611

Further parts see page

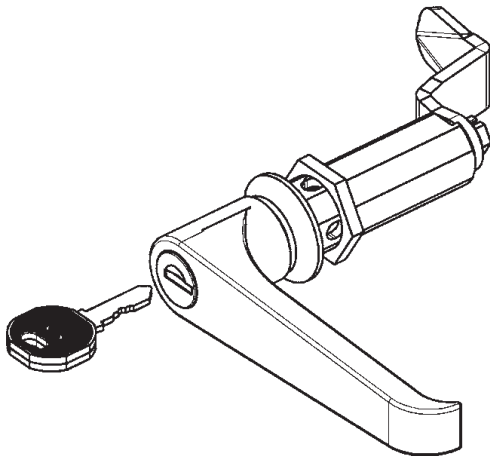
– Cam		1C-120
	up to	1C-220
– Accessories	from	1C-340
– Escutcheon		3B-140
– Spare key		12B-140

1B-560

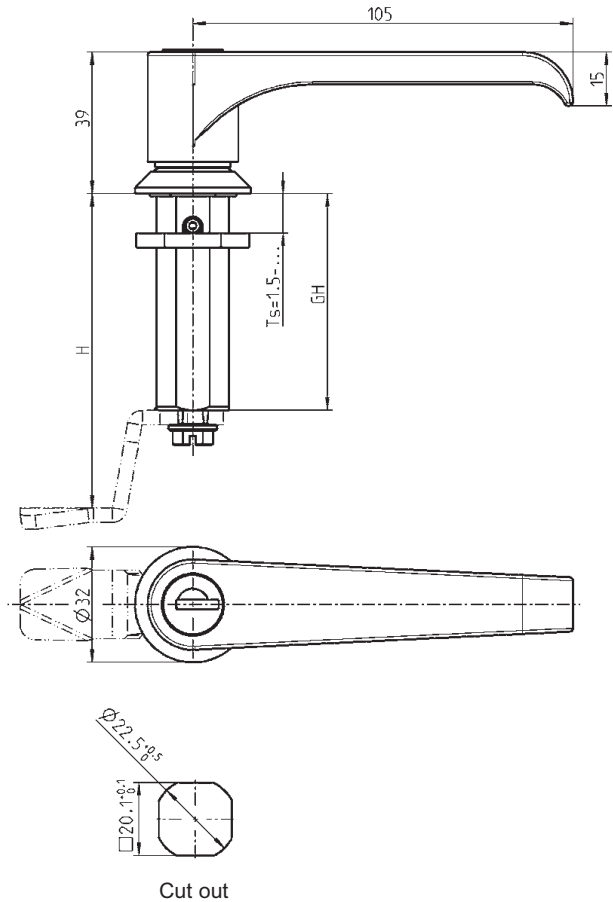
(1B-281)

L-Handle

PROGRAM 1000



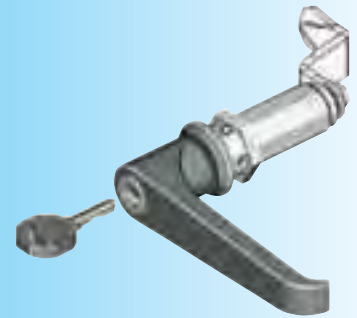
Each cylinder has one silver steel key with polyamide GF grip black, screw and nut m.s.zinc pl., key removable in both positions



L-Handle,
suitable for KABA-cylinder type 1036 for standard locking or master key system on request.

L-Handle		Handle and housing zinc die chrome plated, nut, earthnut and screw m.s. zinc plated, with seal cylinder zinc die with stainless steel cap and shutter		
IP 65				
GH	Ts 1,5 -	non locking	keyed EK 333	keyed different
18 mm	8 mm			
	with nut	1000-U14	1000-U15	1000-U16
	with earthnut	1000-U57	1000-U58	1000-U59
30 mm	20 mm			
	with nut	1000-U98	1000-U100	1000-U102
	with earthnut	1000-U99	1000-U101	1000-U103
40 mm	30 mm			
	with nut	1000-U104	1000-U106	1000-U108
	with earthnut	1000-U105	1000-U107	1000-U109
50 mm	40 mm			
	with nut	1000-U110	1000-U112	1000-U114
	with earthnut	1000-U111	1000-U113	1000-U115
60 mm	50 mm			
	with nut	1000-U612	1000-U614	1000-U616
	with earthnut	1000-U613	1000-U615	1000-U617

Beschlagteile



L-Handle IP 65		Handle and housing zinc die black powder coated, earthnut and screw m.s. zinc plated, with seal Cylinder zinc die with stainless steel cap and shutter		
GH	Ts 1,5 -	non locking	keyed EK 333	keyed different
18 mm	8 mm			
with nut		1000-U353	1000-U390	1000-U391
with earthnut		1000-U392	1000-U393	1000-U394
30 mm	20 mm			
with nut		1000-U354	1000-U356	1000-U358
with earthnut		1000-U355	1000-U357	1000-U359
40 mm	30 mm			
with nut		1000-U360	1000-U362	1000-U364
with earthnut		1000-U361	1000-U363	1000-U365
50 mm	40 mm			
with nut		1000-U366	1000-U368	1000-U370
with earthnut		1000-U367	1000-U369	1000-U371
60 mm	50 mm			
with nut		1000-U618	1000-U620	1000-U622
with earthnut		1000-U619	1000-U621	1000-U623

L-Handle IP 65		Handle, housing, nut and screw AISI 304, with seal		
GH	Ts 1,5 -	non locking	keyed EK 333	keyed different
18 mm	8 mm			
with nut		1000-U658		

L-Handle		Handle polyamide black Housing zinc die black, nut, earthnut and screw m.s. zinc plated, with seal Cylinder zinc die with stainless steel cap and shutter		
GH	Ts 1,5 -	non locking	keyed EK 333	keyed different
18 mm	8 mm			
with nut		1000-U570	1000-U572	1000-U574
with earthnut		1000-U571	1000-U573	1000-U575
30 mm	20 mm			
with nut		1000-U576	1000-U578	1000-U580
with earthnut		1000-U577	1000-U579	1000-U581
40 mm	30 mm			
with nut		1000-U582	1000-U584	1000-U586
with earthnut		1000-U583	1000-U585	1000-U587
50 mm	40 mm			
with nut		1000-U588	1000-U590	1000-U592
with earthnut		1000-U589	1000-U591	1000-U593
60 mm	50 mm			
with nut		1000-U624	1000-U626	1000-U628
with earthnut		1000-U625	1000-U627	1000-U629

Further parts see page

– Cam	up to	1C-120
	from	1C-220
– Accessories		1C-340
– Escutcheon		3B-140
– Spare key		12B-140

1B-580

(1B-282)



IP 65 on request!

Insert is spring loaded
(2 hand operation)



IP 65

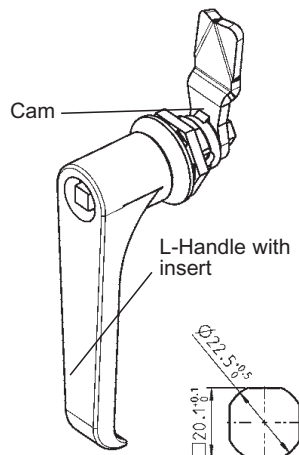
Attention:
L-Handle with housing and insert
zinc die,
screw and earthnut m.s. zinc
plated, with seal

Further parts see page

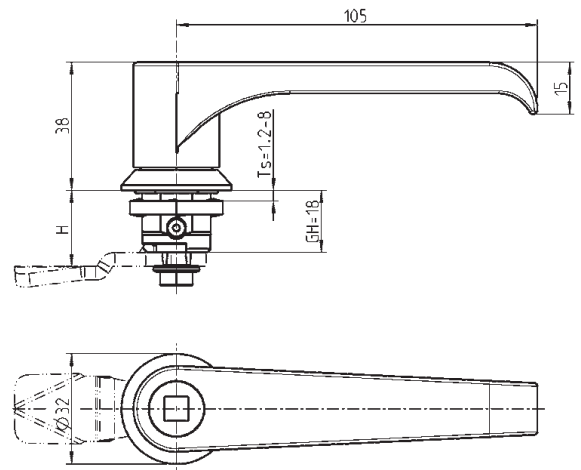
- | | | |
|---------------|-------|---------|
| – Cam | | 1C-120 |
| | up to | 1C-220 |
| – Accessories | from | 1C-340 |
| – Escutcheon | | 3B-140 |
| – Key | | 12B-120 |

1B-620

(1B-290)

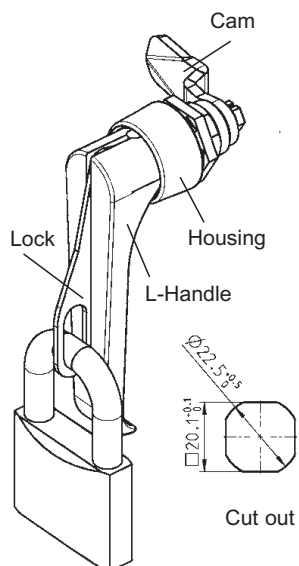


Cut out

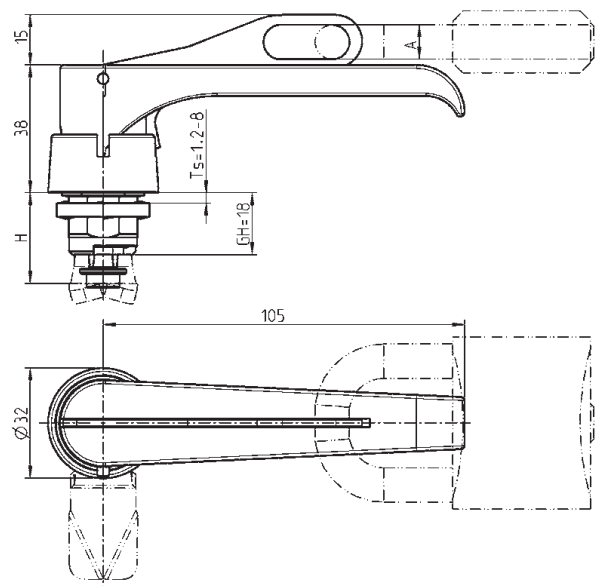


**L-Handle with housing and insert zinc die,
screw and earthnut m.s. zinc plated, with seal**

	chrome pl.	black powder coated		chrome pl.	black powder coated
Square 7	1000-U89	1000-U395	Double bit 5	1000-U94	1000-U400
Square 8	1000-U90	1000-U396	Daimler Benz	1000-U95	1000-U401
Triangular 6,5			Slot 2 x 4	1000-U434	1000-U435
CNOMO	1000-U423	1000-U422	Slot 1,2 x 3	1000-U656	1000-U657
Triangular 7	1000-U91	1000-U397	Eastern Europe		
Triangular 8	1000-U92	1000-U398	half round Ø 13	1000-U659	1000-U660
Double bit 3	1000-U93	1000-U399			



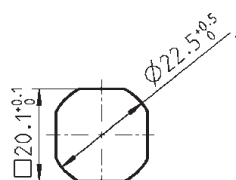
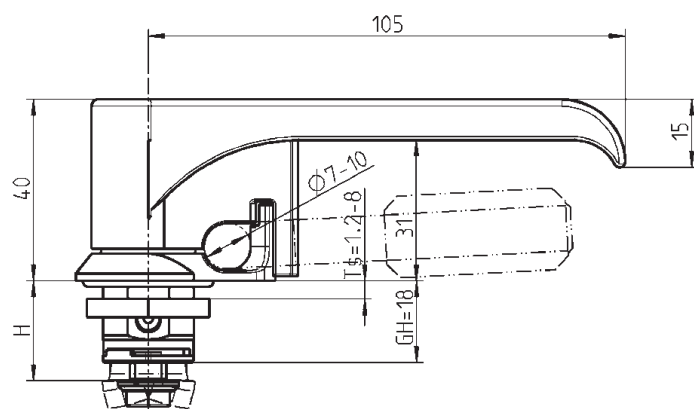
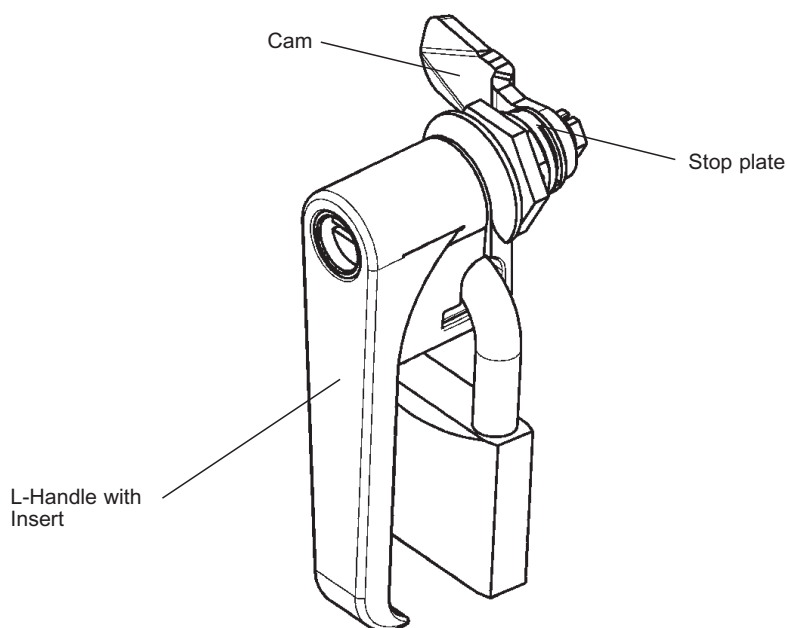
Cut out



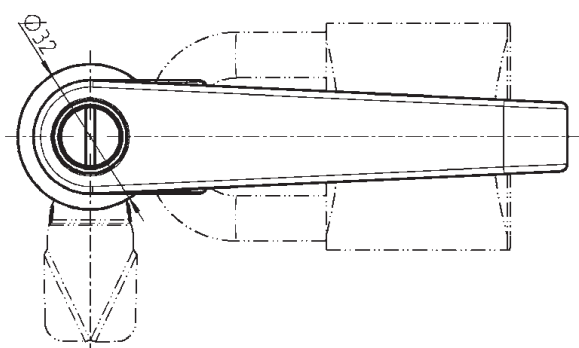
**L-Handle with housing zinc die, lock and spring stainless steel,
screw and nut m.s. zinc plated, with seal**

	chrome pl.	black powder coated		chrome pl.	black powder coated
Dim. A = 7	1000-U501	1000-U502	Dim. A = 10	1000-U189	1000-U402

L-Handle for padlock PROGRAM 1000



Cut out



Insert is spring loaded
(2 hand operation)

Attention:
L-Handle is locked when a pad-
lock is fitted.

Further parts see page
– Cams without stopper on request. 1C-360
– Accessories 1C-380

Further inserts
(see catalogue page 1B-620)
on request!

L-Handle with housing zinc die bl. p.c., stop plate zinc die for version RH and LH,
screw and nut m.s. zinc plated, with seal

with insert 2x4 coinproof zinc die chrome plated

1000-U770

without insert

1000-U77



IP 65

Attention:
Wing knob is locked, when padlock is fitted with the appropriate bow diameter.

For bow diameter Ø 4,5 to 10

Further parts see page

- Cam 1C-120
- up to 1C-220
- Accessories from 1C-340



For bow diameter ≤ Ø 13

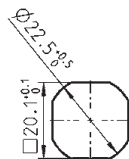
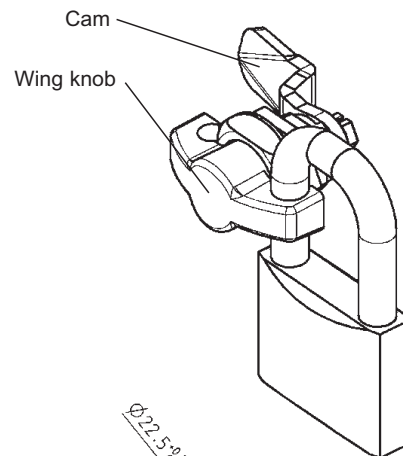
Note:
Quarter turn assembling 1B-105

Further parts see page

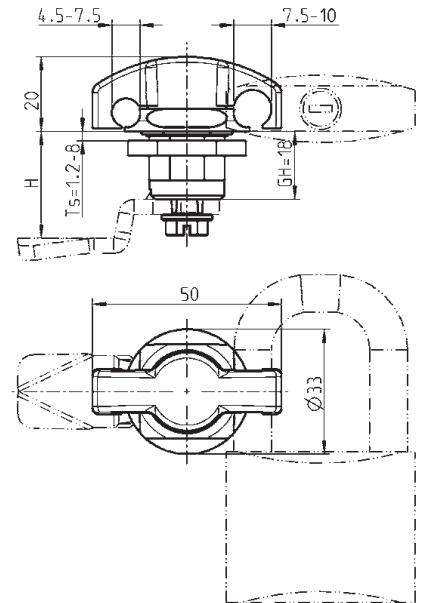
- Insert 1B-140
- IP 65 or IP 66 1B-140
- Cam 1C-130
- Accessories from 1C-340
- Escutcheon 3B-140
- Key 12B-120

1B-680

(1B-300)

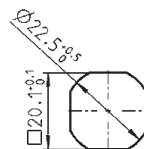
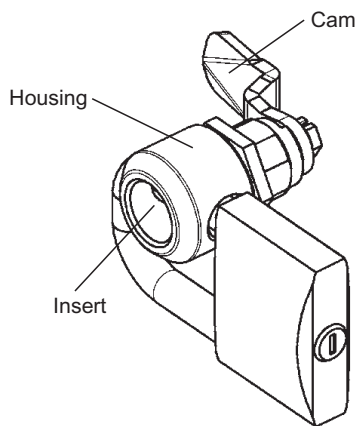


Cut out

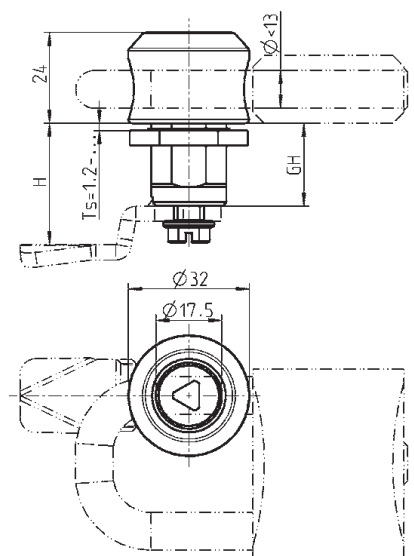


Wing knob and housing zinc die black p.c.,
nut and screw m.s. zinc plated, with seal

1000-U429-01



Cut out



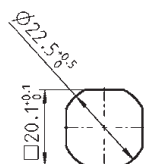
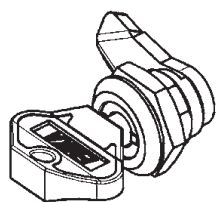
Housing zinc die black p.c., nut and earthnut m.s. zinc plated

GH	TS<	Nut	Earthnut
22	13	1000-U436	1000-U438
32	23	1000-U437	1000-U439
42	33	1000-U734	1000-U735

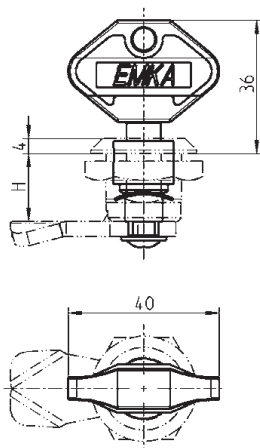
Clip-in key, wing knob for insert

PROGRAM 1000

Clip-in key



Cut out



The key clips permanently into the insert.

The key cannot be removed without disassembling or destroying it.

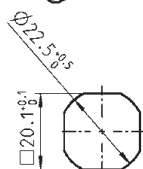
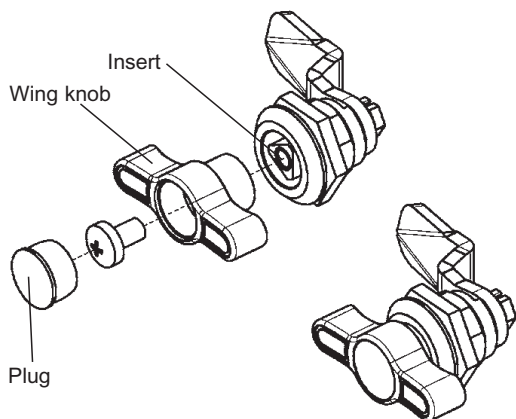
Insert: Polyamide black, wave washer and lock screw, m.s. zinc plated

Double bit 3	1000-U745	Double bit 5	1000-U744
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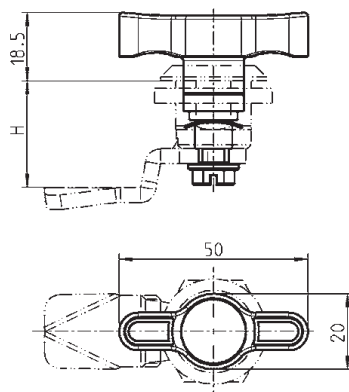
Key: Polyamide black

Key Double Bit 3	1004-34-01	Key Double Bit 5	1004-33-01
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Wing knob for insert



Cut out



Wing knob: Polyamide GF black, blind plug PE black, assembling material m.s. zinc plated

Square 8	1000-U764	Triangular 10	1000-U762
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Insert: Zinc die zinc plated

Square 8	1000-U765	Triangular 10	1000-U763
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RL



Further parts see page
– Housing and cam

1B-160

Key can be used as a handle



Note:

Quarter turn assembling 1B-105

Further parts see page

– Housing	1B-140
– Cam	1B-160
– Accessories	up to 1C-120
	from 1C-220
	1C-340



IP 40

Advantage:
Easy to install

Easy to assemble by using
plug in plastic parts



Attention:
When selecting a cam the
H-dimension reduced by 3 mm

Note:
Quarter turn assembling 1B-105

Further parts see page
– Insert 1B-140
– Cam (GH = 18) 1C-120
1C-140

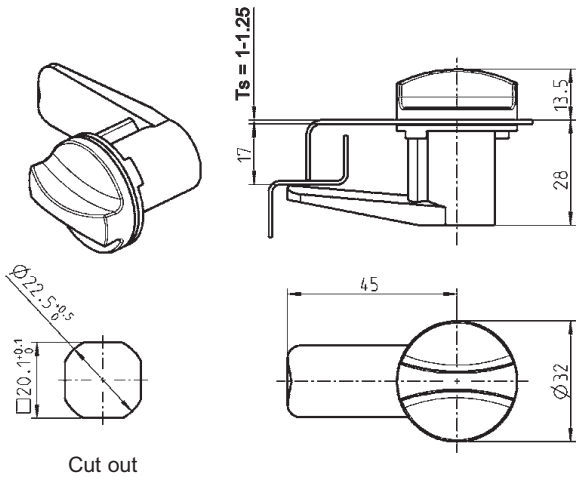
Attention : When selecting
these cams, note the H-dimen-
sion is reduced by 3mm.

– Key 12B-120

1B-760

(1B-220)

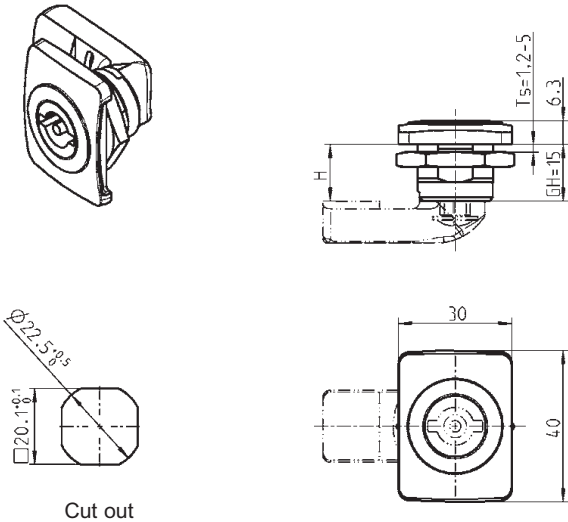
Clip in quarter turn



Clip in quarter turn polyamide GF, RH/LH version

black	1000-U349
grey RAL 7032	1000-U350

Housing for quarter turn



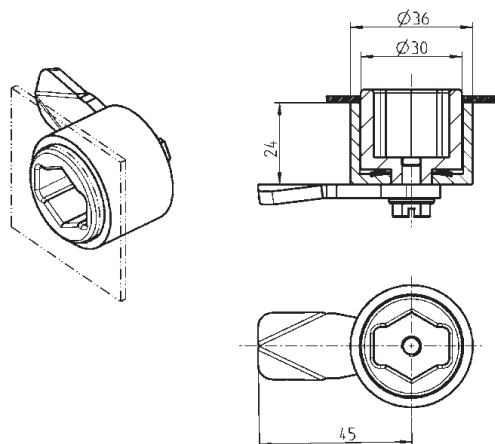
Housing polyamide GF black, nut m.s. zinc plated

RH version	1000-U740
LH version	1000-U740-01
IP 65 with:	
Flat seal	1000-23
O-ring	1000-24
IP 66 with:	
Sealing device	1000-U769

Quarter turn screw-on or weld-on

PROGRAM 1000

Special lock for fire brigade use
according to DIN 14925-SCH



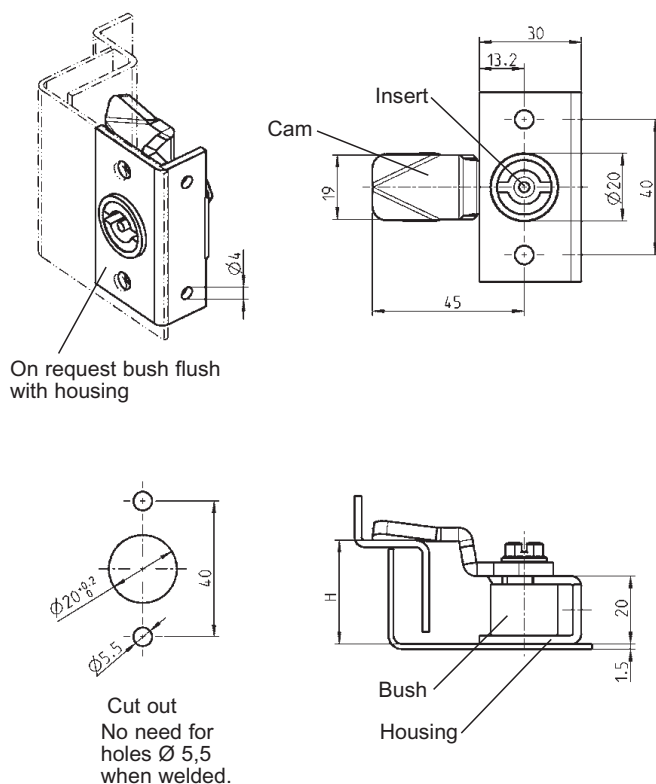
Quarter turn for equipment and appliances used by fire brigades. The lever cutting edge of special fire brigade hatchet according to DIN 14924 and the special fire hydrant keys A or B to DIN 3223 can be used to open the lock.

Housing, cam and screw m.s. zinc plated, insert zinc die chrome plated

1000-U143B

Cam m.s. zinc plated
Dim. H in mm

6	1000-112
8	1000-22
10	1000-113
12	1000-21
15	1000-20
16	1000-19
18	1000-18
20	1000-17
22	1000-16
24	1000-15
26	1000-14
27	1000-27
28	1000-50
30	1000-13
32	1000-28
34	1000-26
36	1000-12
37	1000-11
38	1000-51
40	1000-52
42	1000-25
44	1000-53
46	1000-54
49	1000-55
52	1000-56



Housing m.s. raw with bush zinc die zinc pl.

RH version as drawn	1057-U1
LH version	1057-U2
Housing on request also zinc plated	

Beschlagteile



Further parts see page

– Insert 1B-140
– Key 12B-120

1B-820

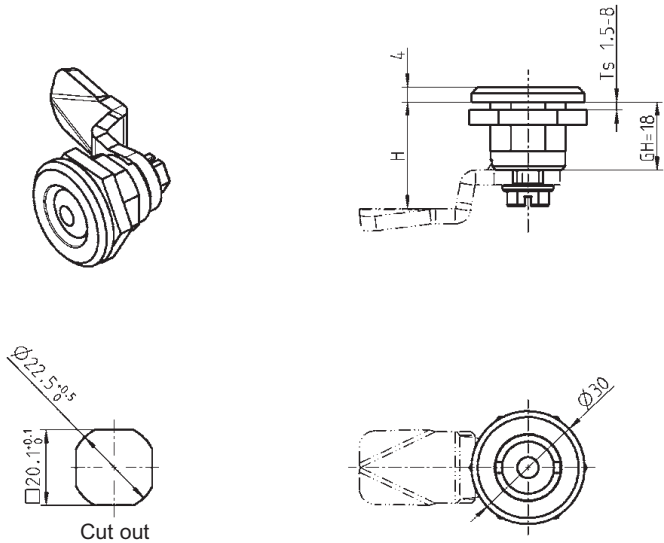
(1B-240)



Further parts see page
 – Cam up to 1C-220
 – Accessories from 1C-220

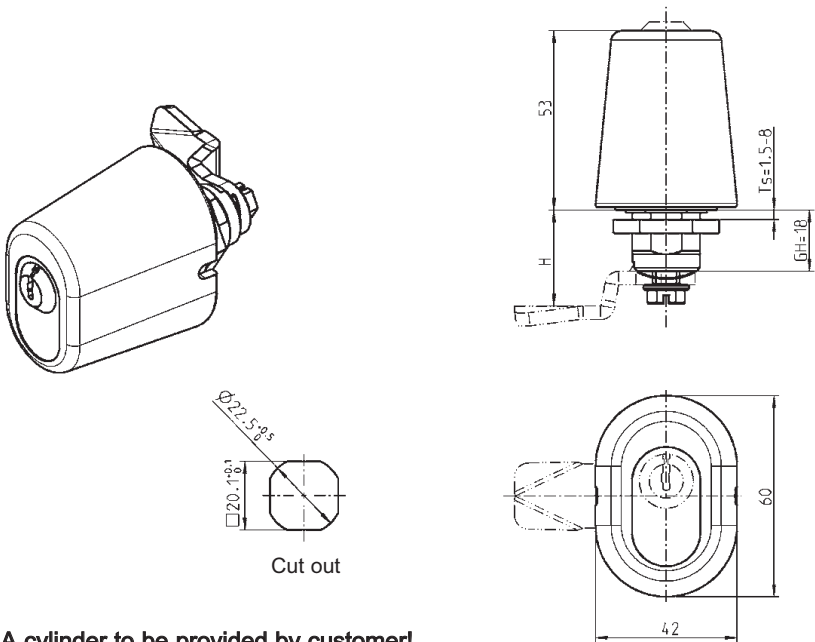
Quarter turn PROGRAM 1000

Quarter turn for Swedish power companies



Housing and insert zinc die chrome pl., screws and nut m.s. zinc pl.	
	1000-U768
IP 65 with:	
Flat seal	1000-23
O-ring	1000-24
IP 66 with:	
Seal-set	1000-U769
Assembly on request:	
Flat seal	1000-990
O-ring	1000-991

Wing knob for ASSA-cylinder



ASSA cylinder to be provided by customer!

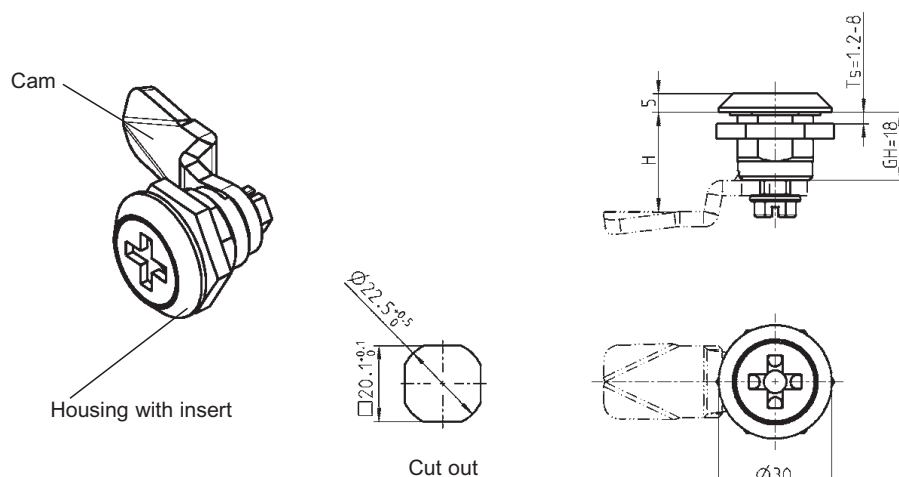
Further parts see page
 – Cam up to 1C-220

Handle polyamide black, housing zinc die zinc plated, screw and nut m.s. zinc plated, with seal	
	1000-U653

FIAT- and Railroad quarter turn

PROGRAM 1000

FIAT



Housing* with insert zinc die chrome plated, screw, nut and earthnut

m.s. zinc plated, with seal

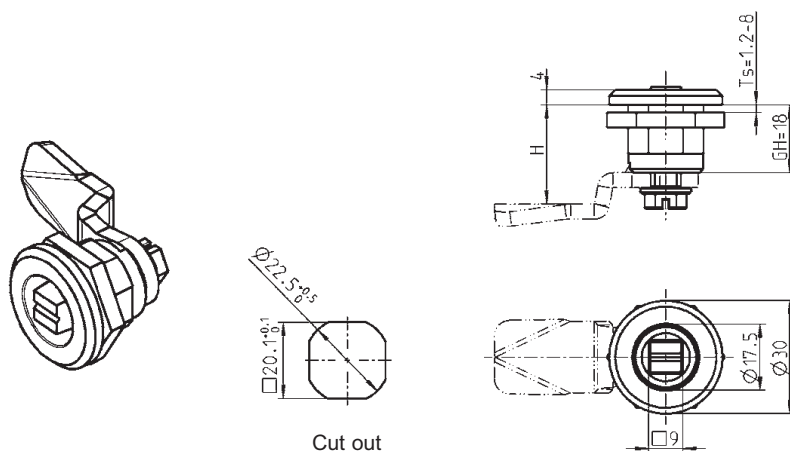
Nut

Earthnut

1000-U426

1000-U427

Railroad



Housing zinc die, surface upon request, screw nut and earthnut m.s. zinc plated, insert on choice

insert m.s. zinc plated

Nut

Earthnut

housing chrome plated

1000-U431

1000-U499

Housing black powder coated

1000-U432

1000-U500

Insert zinc die chrome pl.

Nut

Earthnut

housing chrome plated

1000-U431-01

—

IP 65 with:

Flat seal

1000-23

O-ring

1000-24

IP 66 with:

Seal-set

1000-U769

IP 66 with:

without O-ring

1000-990

with O-ring

1000-991



* = IP 65

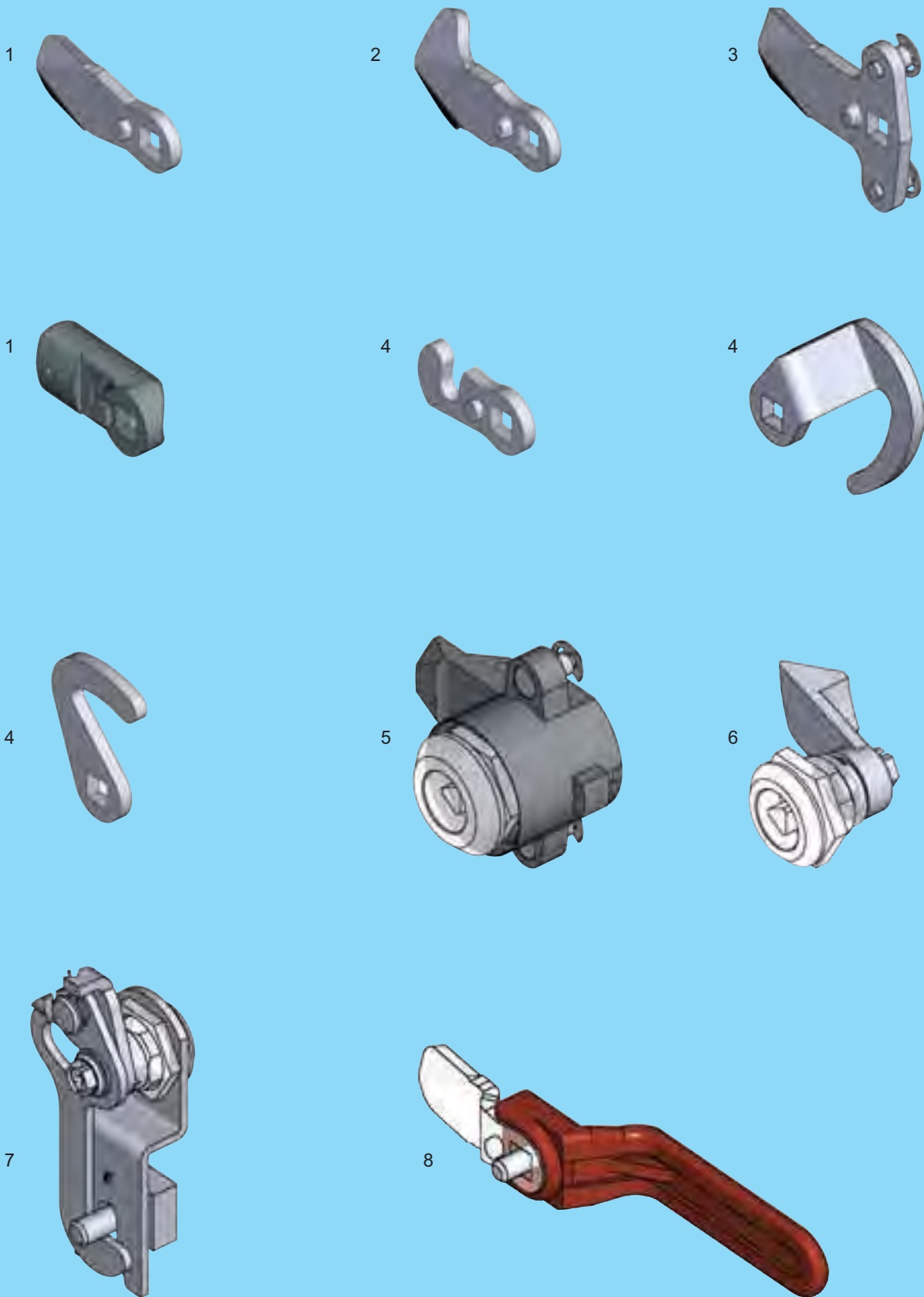


Note:
Quarter turn assembling 1B-105

Further parts see page

— Cam 1C-120
up to 1C-220
— Accessories from 1C-220
— Escutcheon 3B-140
— Key 12B-120

Quarter turn accessories standard version



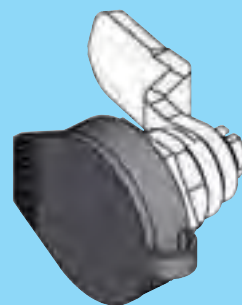
9



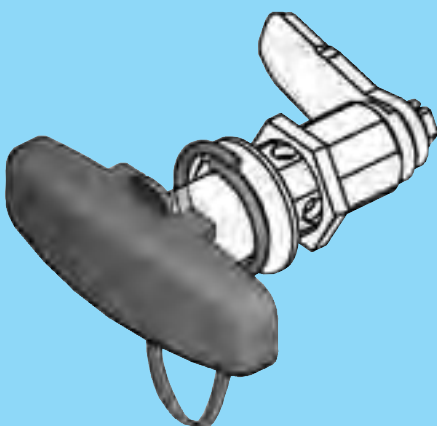
10



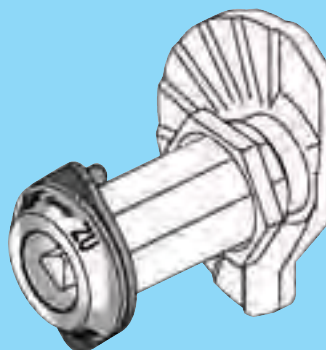
11



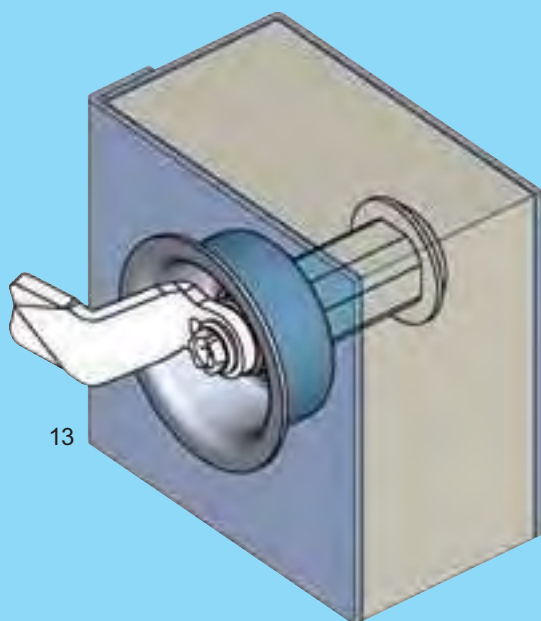
11



12



13



15



14

15



14

- 1 Cam
- 2 Cam
- 3 Cam with rod control
- 4 Hooked cam
- 5 Plastic cam with rod control
- 6 Slam cam
- 7 Hooked lever assembly
- 8 Internal handle for cams
- 9 Rod control for cam
- 10 Finger pull
- 11 Dust cap
- 12 Rotation prevention
- 13 Dish for quarter turn
- 14 Rods
- 15 Rod guide

- 1C-120 to 1C-140
- 1C-120, 1C-130
- 1C-120, 1C-130
- 1C-160
- 1C-160
- 1C-180
- 1C-180
- 1C-220
- 1C-220
- 1C-320
- 1C-320, 1C-340
- 1C-360
- 1C-380
- 1C-620
- 1C-640

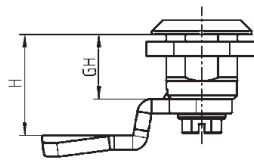
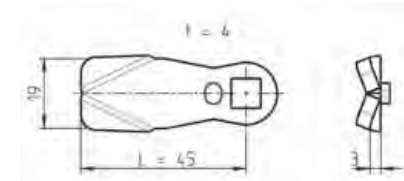


1C-100

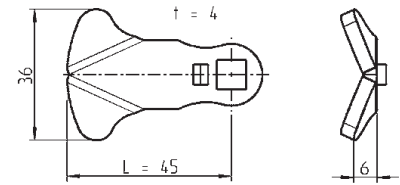
Cam m.s. for GH = 18, 30, 36, 40, 50 and 60

PROGRAM 1000

Cam



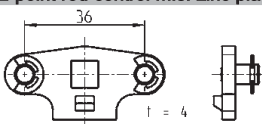
Cam



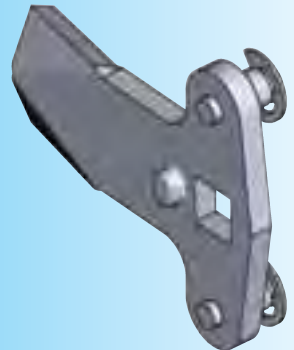
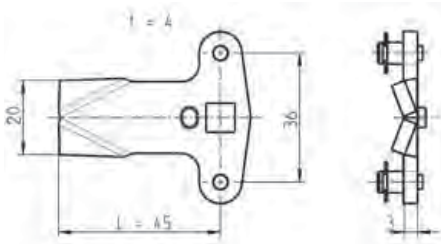
Cam m.s. zinc plated							Cam m.s. zinc plated				
H.....	GH = 18	GH = 30	GH = 36	GH = 40	GH = 50	GH = 60	H.....	GH = 18	GH = 30	GH = 36	GH = 40
4.....	1000-112	-	-	-	-	-	4.....	1000-286	-	-	-
6.....	1000-22	-	-	-	-	-	6.....	1000-287	-	-	-
8.....	1000-113	-	-	-	-	-	8.....	1000-288	-	-	-
10.....	1000-21	-	-	-	-	-	10.....	1000-289	-	-	-
13.....	1000-20	-	-	-	-	-	13.....	1000-290	-	-	-
14.....	1000-19	-	-	-	-	-	14.....	1000-291	-	-	-
16.....	1000-18	1000-112	-	-	-	-	16.....	1000-292	1000-286	-	-
18.....	1000-17	1000-22	-	-	-	-	18.....	1000-293	1000-287	-	-
20.....	1000-16	1000-113	-	-	-	-	20.....	1000-294	1000-288	-	-
22.....	1000-15	1000-21	1000-112	-	-	-	22.....	1000-295	1000-289	1000-286	-
24.....	1000-14	-	1000-22	-	-	-	24.....	1000-296	-	1000-287	-
25.....	1000-27	1000-20	-	-	-	-	25.....	1000-297	1000-290	-	-
26.....	1000-50	1000-19	1000-113	1000-112	-	-	26.....	1000-298	1000-291	1000-288	1000-286
28.....	1000-13	1000-18	1000-21	1000-22	-	-	28.....	1000-299	1000-292	1000-289	1000-287
30.....	1000-28	1000-17	-	1000-113	-	-	30.....	1000-300	1000-293	-	1000-288
31.....	-	-	1000-20	-	-	-	31.....	-	-	1000-290	-
32.....	1000-26	1000-16	1000-19	1000-21	-	-	32.....	1000-301	1000-294	1000-291	1000-289
34.....	1000-12	1000-15	1000-18	-	-	-	34.....	1000-302	1000-295	1000-292	-
35.....	1000-11	-	-	1000-20	-	-	35.....	1000-303	-	-	1000-290
36.....	1000-51	1000-14	1000-17	1000-19	1000-112	-	36.....	1000-304	1000-296	1000-293	1000-291
37.....	-	1000-27	-	-	-	-	37.....	-	1000-297	-	-
38.....	1000-52	1000-50	1000-16	1000-18	1000-22	-	38.....	1000-305	1000-298	1000-294	1000-292
40.....	1000-25	1000-13	1000-15	1000-17	1000-113	-	40.....	1000-306	1000-299	1000-295	1000-293
42.....	1000-53	1000-28	1000-14	1000-16	1000-21	-	42.....	1000-307	1000-300	1000-296	1000-294
43.....	-	-	1000-27	-	-	-	43.....	-	-	1000-297	-
44.....	1000-54	1000-26	1000-50	1000-15	-	-	44.....	1000-308	1000-301	1000-298	1000-295
45.....	1000-10	-	-	-	1000-20	-	45.....	1000-309	-	-	-
46.....	-	1000-12	1000-13	1000-14	1000-19	1000-112	46.....	-	1000-302	1000-299	1000-296
47.....	1000-55	1000-11	-	1000-27	-	-	47.....	1000-310	1000-303	-	1000-297
48.....	-	1000-51	1000-28	1000-50	1000-18	1000-22	48.....	-	1000-304	1000-300	1000-298
50.....	1000-56	1000-52	1000-26	1000-13	1000-17	1000-113	50.....	1000-311	1000-305	1000-301	1000-299
52.....	-	1000-25	1000-12	1000-28	1000-16	1000-21	52.....	-	1000-306	1000-302	1000-300
53.....	-	-	1000-11	-	-	-	53.....	-	-	1000-303	-
54.....	-	1000-53	1000-51	1000-26	1000-15	-	54.....	-	1000-307	1000-304	1000-301
55.....	-	-	-	-	-	1000-20	55.....	-	-	-	-
56.....	-	1000-54	1000-52	1000-12	1000-14	1000-19	56.....	-	1000-308	1000-305	1000-302
57.....	-	1000-10	-	1000-11	1000-27	-	57.....	-	1000-309	-	1000-303
58.....	-	-	1000-25	1000-51	1000-50	1000-18	58.....	-	-	1000-306	1000-304
59.....	-	1000-55	-	-	-	-	59.....	-	1000-310	-	-
60.....	-	-	1000-53	1000-52	1000-13	1000-17	60.....	-	-	1000-307	1000-305
62.....	-	1000-56	1000-54	1000-25	1000-28	1000-16	62.....	-	1000-311	1000-308	1000-306
63.....	-	-	1000-10	-	-	-	63.....	-	-	1000-309	-
64.....	-	-	-	1000-53	1000-26	1000-15	64.....	-	-	-	1000-307
65.....	-	-	1000-55	-	-	-	65.....	-	-	1000-310	-
66.....	-	-	-	1000-54	1000-12	1000-14	66.....	-	-	-	1000-308
67.....	-	-	-	1000-10	1000-11	1000-27	67.....	-	-	-	1000-309
68.....	-	-	1000-56	-	1000-51	1000-50	68.....	-	-	1000-311	-
69.....	-	-	-	1000-55	-	-	69.....	-	-	-	1000-310
70.....	-	-	-	-	1000-52	1000-13	70.....	-	-	-	-
72.....	-	-	-	1000-56	1000-25	1000-28	72.....	-	-	-	1000-311
74.....	-	-	-	-	1000-53	1000-26	74.....	-	-	-	-
76.....	-	-	-	-	1000-54	1000-12	76.....	-	-	-	-
77.....	-	-	-	-	1000-10	1000-11	77.....	-	-	-	-
78.....	-	-	-	-	-	1000-51	78.....	-	-	-	-
79.....	-	-	-	-	1000-55	-	79.....	-	-	-	-
80.....	-	-	-	-	-	1000-52	80.....	-	-	-	-
82.....	-	-	-	-	1000-56	1000-25	82.....	-	-	-	-
84.....	-	-	-	-	-	1000-53	84.....	-	-	-	-
86.....	-	-	-	-	-	1000-54	86.....	-	-	-	-
87.....	-	-	-	-	-	1000-10	87.....	-	-	-	-
89.....	-	-	-	-	-	1000-55	89.....	-	-	-	-
92.....	-	-	-	-	-	1000-56	92.....	-	-	-	-

2-point rod control m.s. zinc plated

1000-U167



Cam with rod control



Note:

The H-dimension will be reduced by 2 mm when used with finger pull (see page 1C-320)

Further parts see page

– Rod	1C-620
– Quarter turn	1B-120
	1B-140
	1B-320
	1B-360
	1B-420
	up to 1B-620
	1B-680
	1B-720
	1B-760
	1B-840
	1B-860

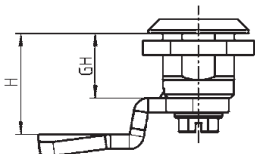
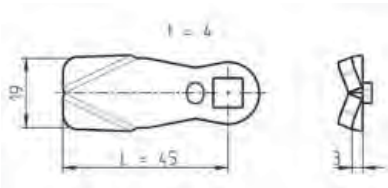
– Rod control or internal handle	1C-220
– Heavy duty latch	10A-620
	10A-640

		Cam with rod control m.s. zinc plated						
GH = 50	GH = 60	H.....	GH = 18	GH = 30	GH = 36	GH = 40	GH = 50	GH = 60
–	–	4.....	1000-U63	–	–	–	–	–
–	–	6.....	1000-U21	–	–	–	–	–
–	–	8.....	1000-U64	–	–	–	–	–
–	–	10.....	1000-U22	–	–	–	–	–
–	–	13.....	1000-U23	–	–	–	–	–
–	–	14.....	1000-U24	–	–	–	–	–
–	–	16.....	1000-U25	1000-U63	–	–	–	–
–	–	18.....	1000-U26	1000-U21	–	–	–	–
–	–	20.....	1000-U27	1000-U64	–	–	–	–
–	–	22.....	1000-U28	1000-U22	1000-U63	–	–	–
–	–	24.....	1000-U29	–	1000-U21	–	–	–
–	–	25.....	1000-U30	1000-U23	–	–	–	–
–	–	26.....	1000-U31	1000-U24	1000-U64	1000-U63	–	–
–	–	28.....	1000-U32	1000-U25	1000-U22	1000-U21	–	–
–	–	30.....	1000-U33	1000-U26	–	1000-U64	–	–
–	–	31.....	–	–	1000-U23	–	–	–
–	–	32.....	1000-U34	1000-U27	1000-U24	1000-U22	–	–
–	–	34.....	1000-U35	1000-U28	1000-U25	–	–	–
–	–	35.....	1000-U36	–	–	1000-U23	–	–
1000-286	–	36.....	1000-U37	1000-U29	1000-U26	1000-U24	1000-U63	–
–	–	37.....	–	1000-U30	–	–	–	–
1000-287	–	38.....	1000-U38	1000-U31	1000-U27	1000-U25	1000-U21	–
1000-288	–	40.....	1000-U39	1000-U32	1000-U28	1000-U26	1000-U64	–
1000-289	–	42.....	1000-U40	1000-U33	1000-U29	1000-U27	1000-U22	–
–	–	43.....	–	–	1000-U30	–	–	–
–	–	44.....	1000-U41	1000-U34	1000-U31	1000-U28	–	–
1000-290	–	45.....	1000-U42	–	–	–	1000-U23	–
1000-291	1000-286	46.....	–	1000-U35	1000-U32	1000-U29	1000-U24	1000-U63
–	–	47.....	1000-U43	1000-U36	–	1000-U30	–	–
1000-292	1000-287	48.....	–	1000-U37	1000-U33	1000-U31	1000-U25	1000-U21
1000-293	1000-288	50.....	1000-U44	1000-U38	1000-U34	1000-U32	1000-U26	1000-U64
1000-294	1000-289	52.....	–	1000-U39	1000-U35	1000-U33	1000-U27	1000-U22
–	–	53.....	–	–	1000-U36	–	–	–
1000-295	–	54.....	–	1000-U40	1000-U37	1000-U34	1000-U28	–
–	1000-290	55.....	–	–	–	–	–	1000-U23
1000-296	1000-291	56.....	–	1000-U41	1000-U38	1000-U35	1000-U29	1000-U24
1000-297	–	57.....	–	1000-U42	–	1000-U36	1000-U30	–
1000-298	1000-292	58.....	–	–	1000-U39	1000-U37	1000-U31	1000-U25
–	–	59.....	–	1000-U43	–	–	–	–
1000-299	1000-293	60.....	–	–	1000-U40	1000-U38	1000-U32	1000-U26
1000-300	1000-294	62.....	–	1000-U44	1000-U41	1000-U39	1000-U33	1000-U27
–	–	63.....	–	–	1000-U42	–	–	–
1000-301	1000-295	64.....	–	–	–	1000-U40	1000-U34	1000-U28
–	–	65.....	–	–	1000-U43	–	–	–
1000-302	1000-296	66.....	–	–	–	1000-U41	1000-U35	1000-U29
1000-303	1000-297	67.....	–	–	–	1000-U42	1000-U36	1000-U30
1000-304	1000-298	68.....	–	–	1000-U44	–	1000-U37	1000-U31
–	–	69.....	–	–	–	1000-U43	–	–
1000-305	1000-299	70.....	–	–	–	–	1000-U38	1000-U32
1000-306	1000-300	72.....	–	–	–	1000-U44	1000-U39	1000-U33
1000-307	1000-301	74.....	–	–	–	–	1000-U40	1000-U34
1000-308	1000-302	76.....	–	–	–	–	1000-U41	1000-U35
1000-309	1000-303	77.....	–	–	–	–	1000-U42	1000-U36
–	1000-304	78.....	–	–	–	–	–	1000-U37
1000-310	–	79.....	–	–	–	–	1000-U43	–
–	1000-305	80.....	–	–	–	–	–	1000-U38
1000-311	1000-306	82.....	–	–	–	–	1000-U44	1000-U39
–	1000-307	84.....	–	–	–	–	–	1000-U40
–	1000-308	86.....	–	–	–	–	–	1000-U41
–	1000-309	87.....	–	–	–	–	–	1000-U42
–	1000-310	89.....	–	–	–	–	–	1000-U43
–	1000-311	92.....	–	–	–	–	–	1000-U44

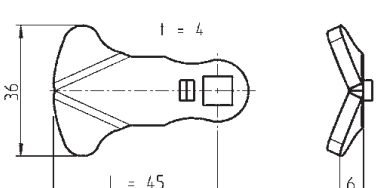
Cam m.s. for GH = 22, 32 and 42

PROGRAM 1000

Cam

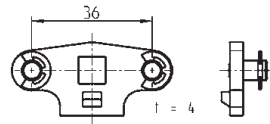


Cam



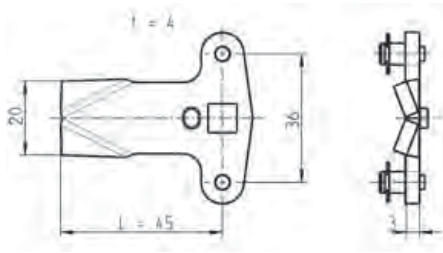
Cam m.s. zinc plated				Cam m.s. zinc plated			
H.....	GH = 22	GH = 32	GH = 42	H.....	GH = 22	GH = 32	GH = 42
8.....	1000-112	—	—	8.....	1000-286	—	—
10.....	1000-22	—	—	10.....	1000-287	—	—
12.....	1000-113	—	—	12.....	1000-288	—	—
14.....	1000-21	—	—	14.....	1000-289	—	—
17.....	1000-20	—	—	17.....	1000-290	—	—
18.....	1000-19	1000-112	—	18.....	1000-291	1000-286	—
20.....	1000-18	1000-22	—	20.....	1000-292	1000-287	—
22.....	1000-17	1000-113	—	22.....	1000-293	1000-288	—
24.....	1000-16	1000-21	—	24.....	1000-294	1000-289	—
26.....	1000-15	—	—	26.....	1000-295	—	—
27.....	—	1000-20	—	27.....	—	1000-290	—
28.....	1000-14	1000-19	1000-112	28.....	1000-296	1000-291	1000-286
29.....	1000-27	—	—	29.....	1000-297	—	—
30.....	1000-50	1000-18	1000-22	30.....	1000-298	1000-292	1000-287
32.....	1000-13	1000-17	1000-113	32.....	1000-299	1000-293	1000-288
34.....	1000-28	1000-16	1000-21	34.....	1000-300	1000-294	1000-289
36.....	1000-26	1000-15	—	36.....	1000-301	1000-295	—
37.....	—	—	1000-20	37.....	—	—	1000-290
38.....	1000-12	1000-14	1000-19	38.....	1000-302	1000-296	1000-291
39.....	1000-11	1000-27	—	39.....	1000-303	1000-297	—
40.....	1000-51	1000-50	1000-18	40.....	1000-304	1000-298	1000-292
42.....	1000-52	1000-13	1000-17	42.....	1000-305	1000-299	1000-293
44.....	1000-25	1000-28	1000-16	44.....	1000-306	1000-300	1000-294
46.....	1000-53	1000-26	1000-15	46.....	1000-307	1000-301	1000-295
48.....	1000-54	1000-12	1000-14	48.....	1000-308	1000-302	1000-296
49.....	1000-10	1000-11	1000-27	49.....	1000-309	1000-303	1000-297
50.....	—	1000-51	1000-50	50.....	—	1000-304	1000-298
51.....	1000-55	—	—	51.....	1000-310	—	—
52.....	1000-56	1000-52	1000-13	52.....	—	1000-305	1000-299
54.....	—	1000-25	1000-28	54.....	1000-311	1000-306	1000-300
56.....	—	1000-53	1000-26	56.....	—	1000-307	1000-301
58.....	—	1000-54	1000-12	58.....	—	1000-308	1000-302
59.....	—	1000-10	1000-11	59.....	—	1000-309	1000-303
60.....	—	—	1000-51	60.....	—	—	1000-304
61.....	—	1000-55	—	61.....	—	1000-310	—
62.....	—	1000-56	1000-52	62.....	—	—	1000-305
64.....	—	—	1000-25	64.....	—	1000-311	1000-306
66.....	—	—	1000-53	66.....	—	—	1000-307
68.....	—	—	1000-54	68.....	—	—	1000-308
69.....	—	—	1000-10	69.....	—	—	1000-309
71.....	—	—	1000-55	71.....	—	—	1000-310
72.....	—	—	1000-56	74.....	—	—	1000-311

2-point rod control m.s. zinc plated



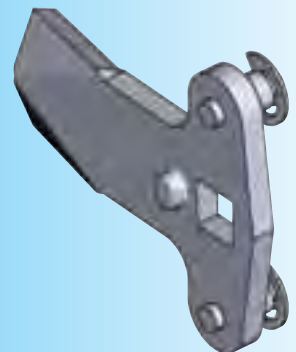
1000-U167

Cam with rod control



Cam with rod control m.s. zinc plated

H.....	GH = 22	GH = 32	GH = 42
8.....	1000-U63	—	—
10.....	1000-U21	—	—
12.....	1000-U64	—	—
14.....	1000-U22	—	—
17.....	1000-U23	—	—
18.....	1000-U24	1000-U63	—
20.....	1000-U25	1000-U21	—
22.....	1000-U26	1000-U64	—
24.....	1000-U27	1000-U22	—
26.....	1000-U28	—	—
27.....	—	1000-U23	—
28.....	1000-U29	1000-U24	1000-U63
29.....	1000-U30	—	—
30.....	1000-U31	1000-U25	1000-U21
32.....	1000-U32	1000-U26	1000-U64
34.....	1000-U33	1000-U27	1000-U22
36.....	1000-U34	1000-U28	—
37.....	—	—	1000-U23
38.....	1000-U35	1000-U29	1000-U24
39.....	1000-U36	1000-U30	—
40.....	1000-U37	1000-U31	1000-U25
42.....	1000-U38	1000-U32	1000-U26
44.....	1000-U39	1000-U33	1000-U27
46.....	1000-U40	1000-U34	1000-U28
48.....	1000-U41	1000-U35	1000-U29
49.....	1000-U42	1000-U36	1000-U30
50.....	—	1000-U37	1000-U31
51.....	1000-U43	—	—
52.....	—	1000-U38	1000-U32
54.....	1000-U44	1000-U39	1000-U33
56.....	—	1000-U40	1000-U34
58.....	—	1000-U41	1000-U35
59.....	—	1000-U42	1000-U36
60.....	—	—	1000-U37
61.....	—	1000-U43	—
62.....	—	—	1000-U38
64.....	—	1000-U44	1000-U39
66.....	—	—	1000-U40
68.....	—	—	1000-U41
69.....	—	—	1000-U42
71.....	—	—	1000-U43
74.....	—	—	1000-U44



Further parts see page

— Rod

— Quarter turn

1C-620

1B-220

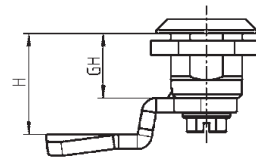
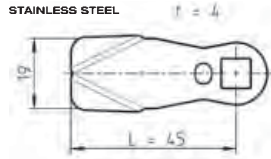
1B-680



® Cam AISI 304 for GH = 18, 30, 36, 40, 50, 60
Cam polyamide
PROGRAM 1000



STAINLESS STEEL



Cam AISI 304						
H.....	GH = 18	GH = 30	GH = 36	GH = 40	GH = 50	GH = 60
4.....	—	—	—	—	—	—
6.....	1000-221	—	—	—	—	—
8.....	—	—	—	—	—	—
10.....	1000-223	—	—	—	—	—
13.....	—	—	—	—	—	—
14.....	1000-225	—	—	—	—	—
16.....	—	—	—	—	—	—
18.....	1000-227	1000-221	—	—	—	—
20.....	1000-228	—	—	—	—	—
22.....	1000-179	1000-223	—	—	—	—
24.....	1000-229	—	1000-221	—	—	—
25.....	—	—	—	—	—	—
26.....	1000-230	1000-225	—	—	—	—
28.....	1000-180	—	1000-223	1000-221	—	—
30.....	—	1000-227	—	—	—	—
31.....	—	—	—	—	—	—
32.....	—	1000-228	1000-225	1000-223	—	—
34.....	—	1000-179	—	—	—	—
35.....	—	—	—	—	—	—
36.....	—	1000-229	1000-227	1000-225	—	—
37.....	—	—	—	—	—	—
38.....	—	1000-230	1000-228	—	1000-221	—
40.....	—	1000-180	1000-179	1000-227	—	—
42.....	—	—	1000-229	1000-228	—	—
43.....	—	—	—	—	1000-223	—
44.....	—	—	1000-230	1000-179	—	—
45.....	—	—	—	—	—	—
46.....	—	—	1000-180	1000-229	1000-225	—
47.....	—	—	—	—	—	—
48.....	—	—	—	1000-230	—	1000-221
50.....	—	—	—	1000-180	1000-227	—
52.....	—	—	—	—	1000-228	—
53.....	—	—	—	—	—	1000-223
54.....	—	—	—	—	1000-179	—
55.....	—	—	—	—	—	—
56.....	—	—	—	—	1000-229	1000-225
57.....	—	—	—	—	—	—
58.....	—	—	—	—	1000-230	—
59.....	—	—	—	—	—	—
60.....	—	—	—	—	1000-180	1000-227
62.....	—	—	—	—	—	1000-228
63.....	—	—	—	—	—	—
64.....	—	—	—	—	—	1000-179
65.....	—	—	—	—	—	—
66.....	—	—	—	—	—	1000-229
67.....	—	—	—	—	—	—
68.....	—	—	—	—	—	1000-230
69.....	—	—	—	—	—	—
70.....	—	—	—	—	—	1000-180

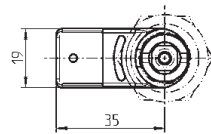
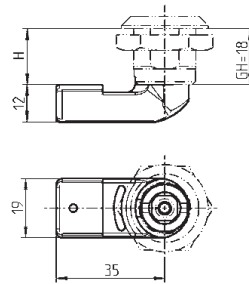
Note:
The H-dimension will be reduced by 2 mm when used with finger pull (see page 1C-320)

Further parts see page
– Quarter turn

up to

- 1B-120
- 1B-140
- 1B-320
- 1B-360
- 1B-420
- 1B-620
- 1B-680
- 1B-720
- 1B-840
- 1B-860
- 1C-220
- 10A-620
- 10A-640

– Inside handle
– Heavy duty latch



Cam polyamide black, Dim H with GH = 18

H		H	
18	1000-386-18	24	1000-386-24
20	1000-386-20	28	1000-386-28
22	1000-386-22	30	1000-386-30

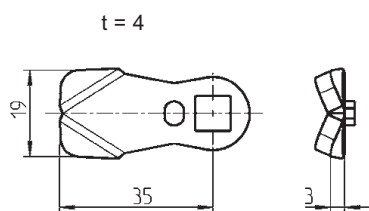
1C-140

(1B-210, 8A-120)

Cam

PROGRAM 1000

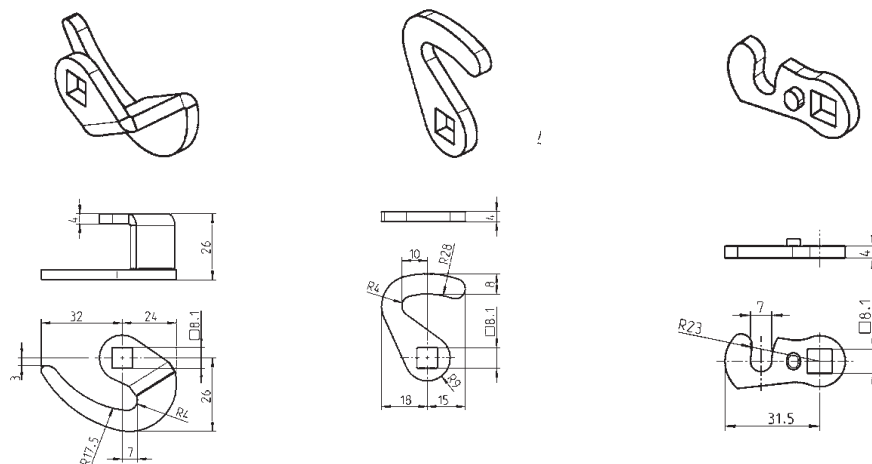
Beschlagteile



Cam m.s. zinc plated

Dimension H for GH 18 in mm

H	L	
18	35	1000-5046
20	35	1000-5161
22	35	1000-5119
28	35	1000-5164



Plastic cam polyamide black with reinforced cover plate m.s. zinc plated, studs m.s. zinc plated

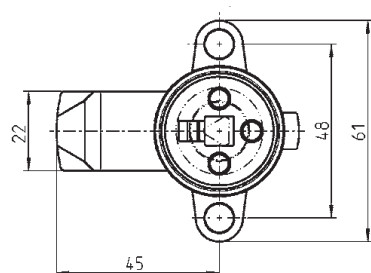
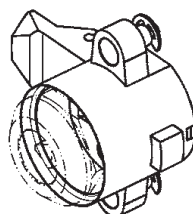
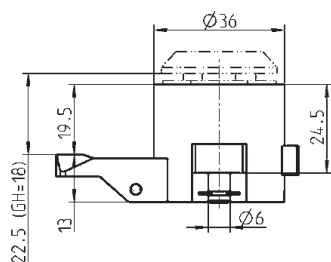
m.s. zinc plated..... 1000-91

Plastic cam polyamide black with reinforced cover plate m.s. zinc pl., studs m.s. zinc plated

m.s. zinc plated.... 1000-93

Plastic cam polyamide black with reinforced cover plate m.s. zinc plated, studs m.s. zinc plated

m.s. zinc plated... 1000-61



Note:

The plastic cam for GH = 18!

Together with the plastic cam, and attached cover, the fixing screw and the metal quarter turn are insulated.

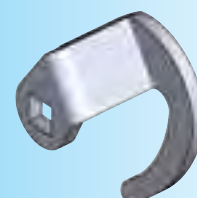
Plastic cam polyamide black with reinforced cover plate m.s. zinc plated, studs m.s. zinc plated

without studs

1107-U3

with studs

1107-U4



Note:

The H-dimension will be reduced by 2 mm when used with finger pull (see page 1C-320)

Further parts see page

– Rod	1C-620
– Quarter turn	1B-120
	1B-140
	1B-360
	1B-420
	up to 1B-620
	1B-680
	1B-720
	1B-840
	1B-860
– Heavy duty latch	10A-620
	10A-640

1C-160

(1C-120)



Further parts see page
– Quarter turn

up to
1B-120
1B-140
1B-360
1B-520
1B-620
1B-680
1B-720
1B-840
1B-860



1C-180

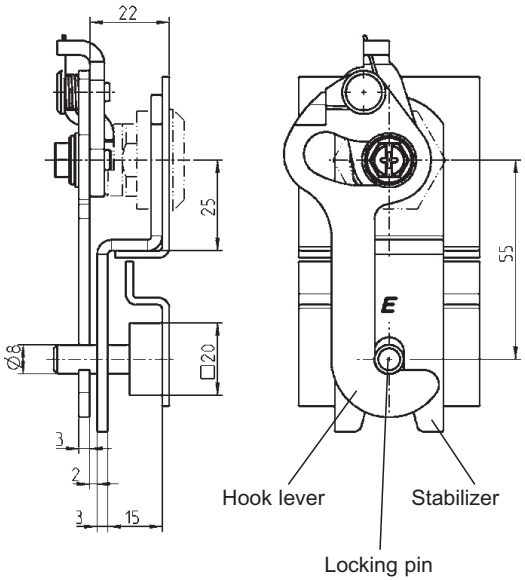
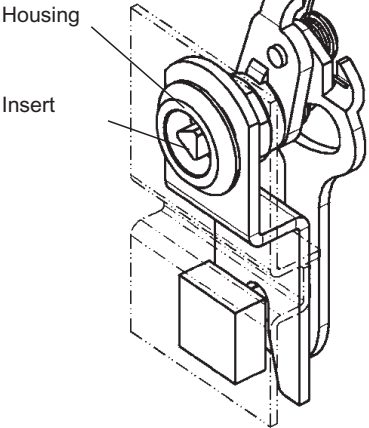
(1C-130)

Hook lever lock, slam cam

PROGRAM 1000

Hook lever lock
with 90° locking stroke, turn and pull movement to the cam
Note: Locking pin and stabilizer designed for GH = 18!

Hook stroke 5 mm

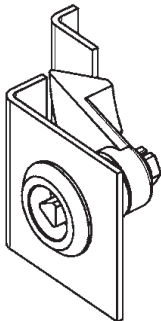


Hook lever lock m.s. zinc plated:

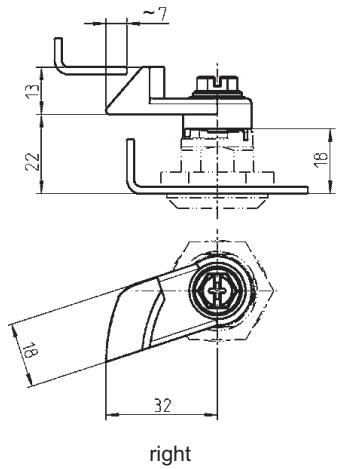
Hook lever	1000-U12
Locking pin	1000-49
Stabilizer	1000-48

Slam cam

Note: Slam cam is designed
for GH = 18!
Other Dim. GH on request.



Spring loaded with slam effect



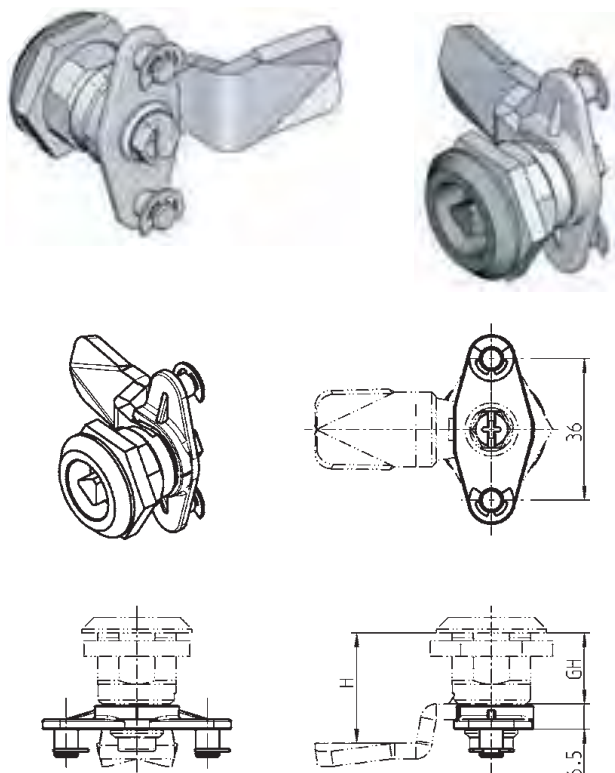
Slam cam zinc die chrome plated

for quarter turn see catalogue page	RH	LH
1B-120, 1B-140, 1B-360, 1B-720, 1B-840, 1B-860	1000-U235-N	1000-U236-N
1B-420 to 1B-620, 1B-680	1000-U315-N	1000-U316-N

Rod control, internal handle

PROGRAM 1000

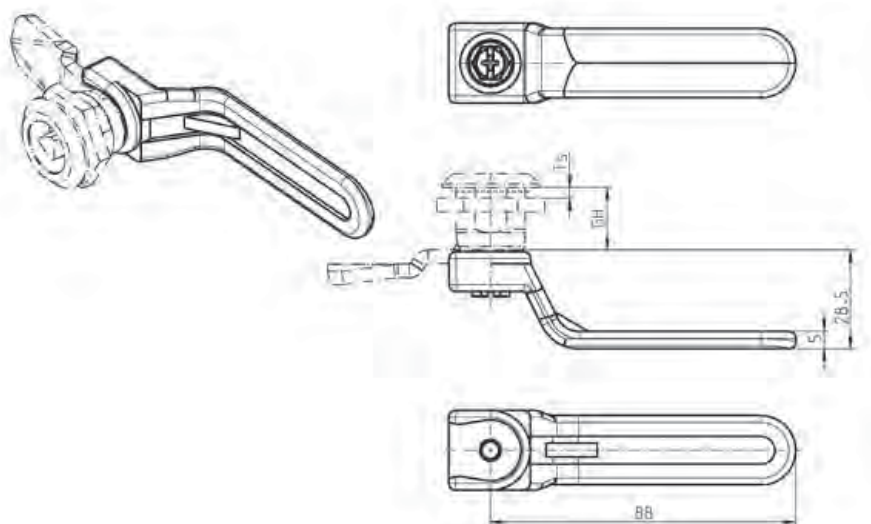
Rod control for steel cams



Rod control for cam m.s. zinc plated, circlip m.s. zinc plated

1000-U776

Internal handle for steel cams



Internal handle polyamide red, screw m.s. zinc plated,
(can not be used for lockable quarter turns)

GH	Ts 1,5-	M6x	Part no.
18	8	16	1000-U681
30	20	25	1000-U682
36	26	30	1000-U683
40	30	40	1000-U684
50	40	50	1000-U685
60	50	55	1000-U686

Beschlagteile

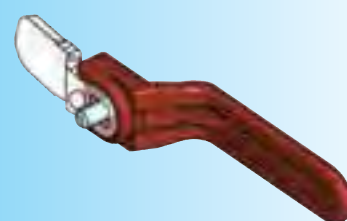


Note:

The H-dimension will be reduced by 2 mm when used with finger pull (see page 1C-320)

Further parts see page

– Rod	1C-620
– Cam	1C-120
– Quarter turn	1B-120
	1B-140
	1B-320
	1B-360
	1B-520
	up to 1B-620
	1B-680
	1B-720
	1B-760
	1B-840
	1B-860



Note:

The H-dimension will be reduced by 2 mm when used with finger pull (see page 1C-320)

Further parts see page

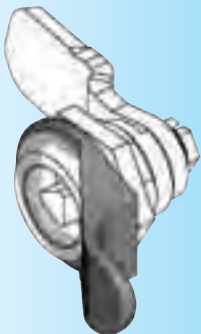
– Cam	1C-120
– Quarter turn	1B-120
	1B-140
	1B-360
	(non locking) 1B-520
	ut to (without lock) 1B-580
	1B-720
	1B-760
	1B-840
	1B-860

1C-220

(1B-150, 1B-220)



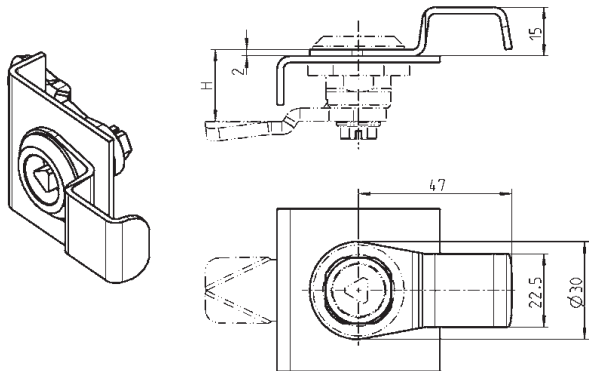
Attention:
The H-dimension will be reduced by 2 mm with this finger pull installed.



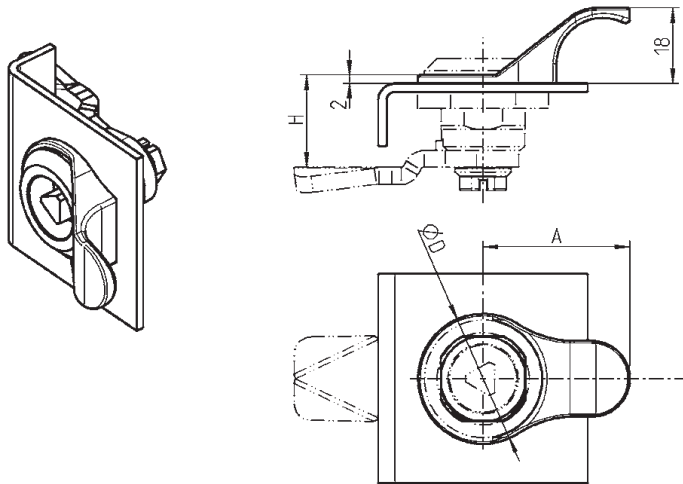
Attention:
The H-dimension will be reduced by 2 mm with this dust cap installed.

Further parts see page
– Quarter turn

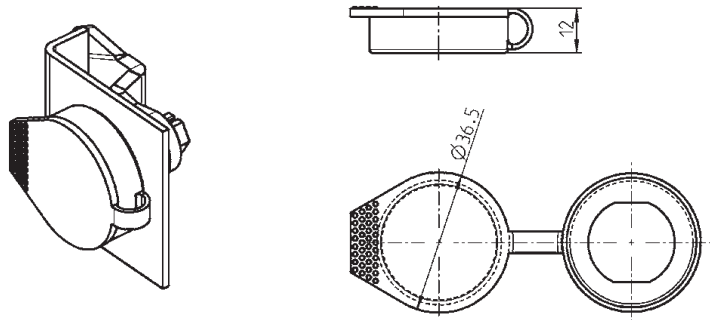
- up to 1B-120
- up to 1B-320
- up to 1B-360
- up to 1B-420
- up to 1B-840
- up to 1B-860



Finger pull m.s. black powder coated	
	1000-359
IP 65 with:	
Flat seal	1000-23



Finger pull polyamide GF black		
for housing with head diameter Ø 28	; D = 31, A = 35	1000-358
for housing with head diameter Ø 30 and 32	; D = 35, A = 36	1000-358-01
IP 65 with:		
Flat seal		1000-23

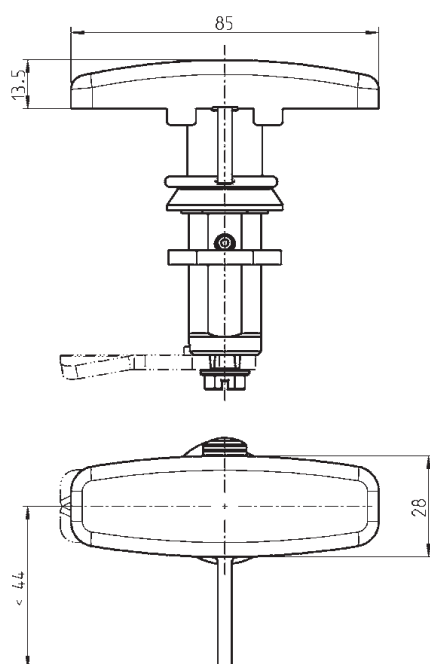


Dust cap polyethylene black	
	1000-97-01

Dust cap for t-handle, slam latch

PROGRAM 1000

Beschlagteile

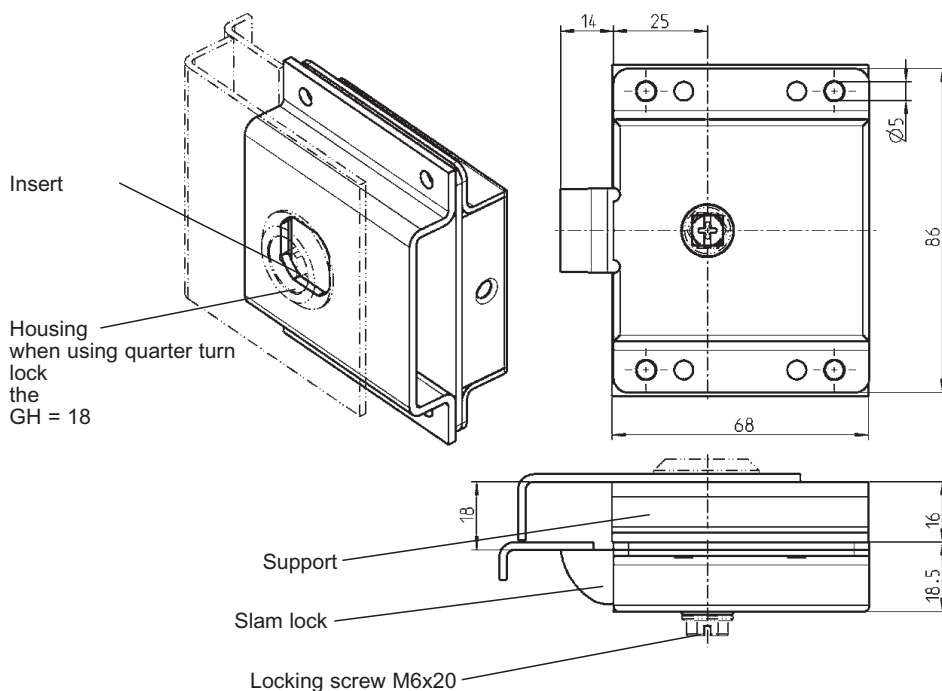


Also suitable for:

- Program 1000
(see page 1B-560)
- Program 1102
(see page 2A-140)
- Program 1005
(see page 2B-160)
- Program 1125
(see page 3B-180)
- Program 1225
(see page 3G-180)
- Program 2100
(see page 3H-220)

T-Handle-cap polypropylene black

1000-460



Slam latch m.s. zinc pl., zinc die raw and spring steel support and screw m.s. zinc plated

Slam lock	1034-U1
Support	1034-03
Locking screw M6x20	1000-277-04JB

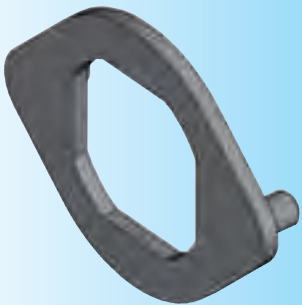
Further parts see page - Quarter turn

1B-120
1B-140
1B-520
up to 1B-620
1B-680
1B-720
1B-840
1B-860

1C-340

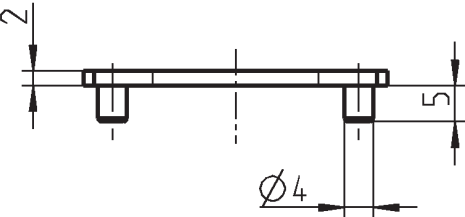
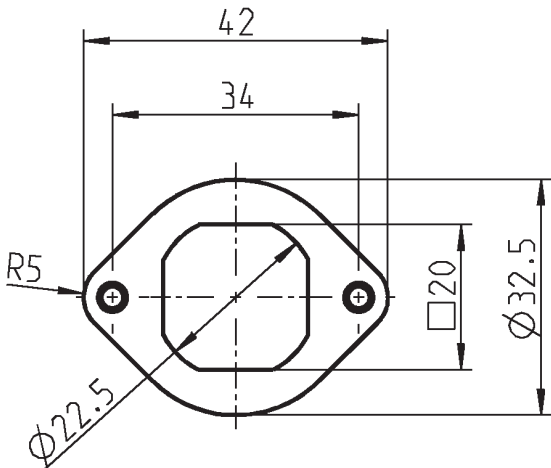
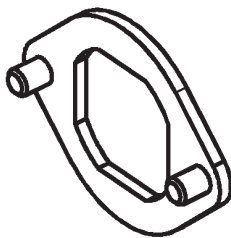
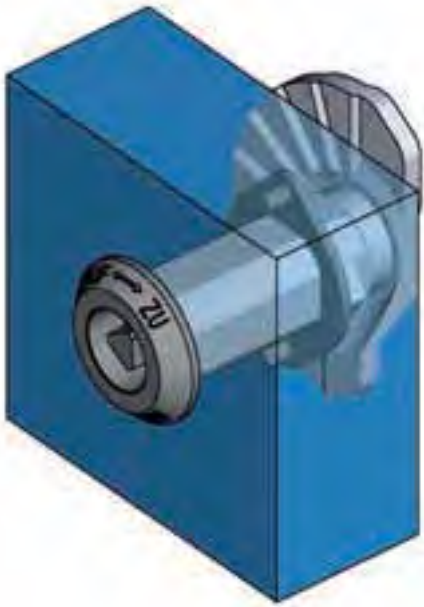
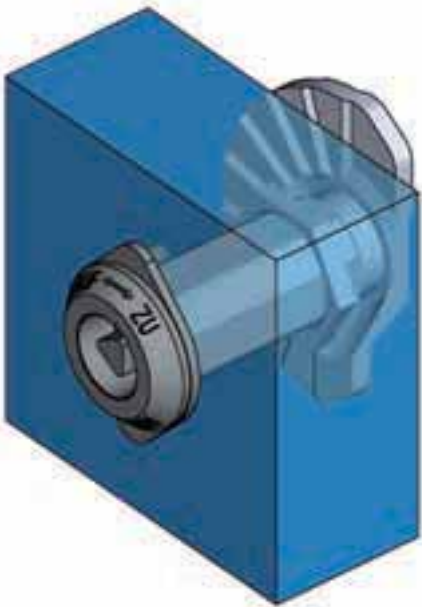
(1C-160)

RL



Front mounted door device for preventing rotation, mounted under the housing head.

Rear mounted door device for preventing rotation, mounted under the nut.



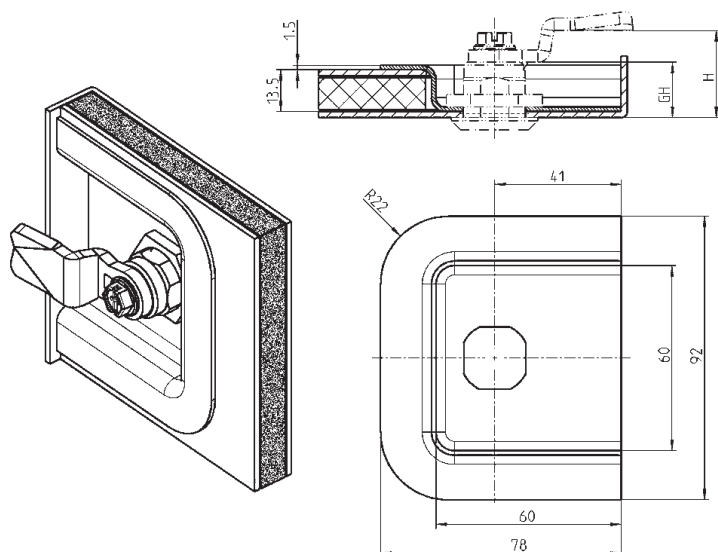
Note:
The use of a device for prevention rotating leads to a reduce of dimension H by 2 mm.

Further parts see page
– Quarter turn

- 1B-120
- 1B-140
- 1B-220
- up to 1B-320
- 1B-420
- 1B-520
- up to 1B-720
- 1B-840
- 1B-860

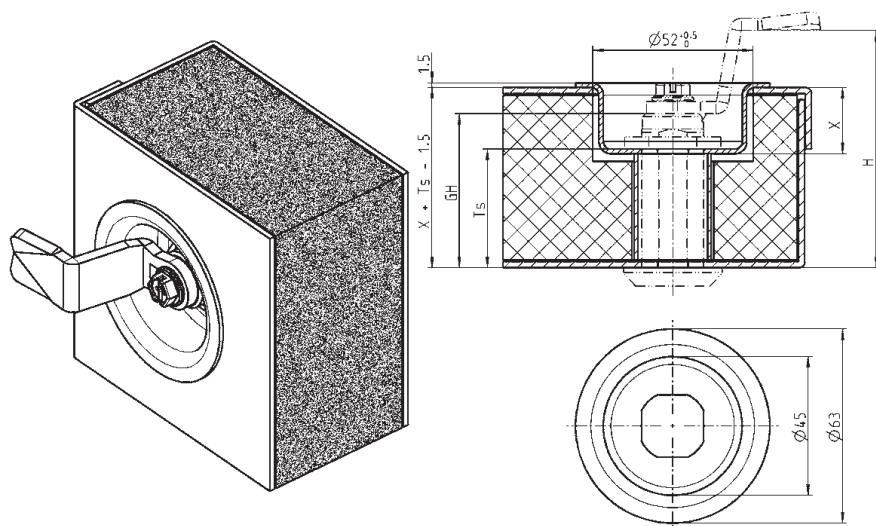
Device for preventing rotation zinc die, surface as requested

black powder coated	1000-456-AA
zinc plated	1000-456-JB



Dish m.s. zinc plated

1000-94



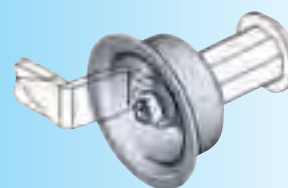
Dish m.s. zinc plated

Dimension X

9 mm	1000-264
16 mm	1000-265
20 mm	1000-266



Dish to decrease the door thickness in conjunction with quarter turns for insulated doors or to align cut outs for quarter turns.



Further parts see page
– Quarter turn

	1B-120
	1B-140
	1B-220
up to	1B-320
	1B-360
	1B-420
	1B-520
up to	1B-720
	1B-840
	1B-860

Rods

PROGRAM UNIVERSAL

Minimum order quantity: 200 pieces

Lower quantities on request

Round rod
in fixed lengths

Program 1000

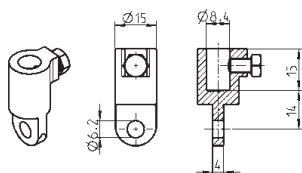
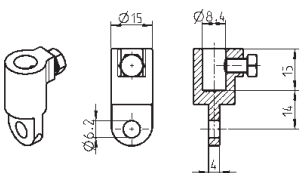
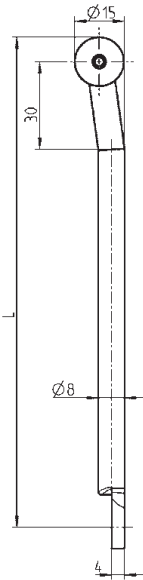
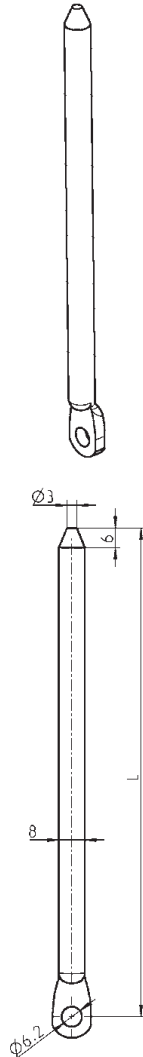
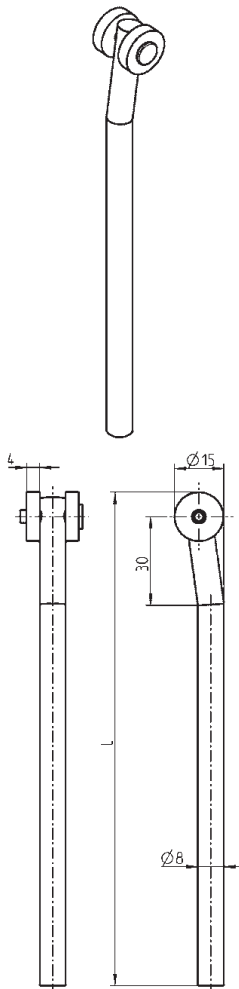
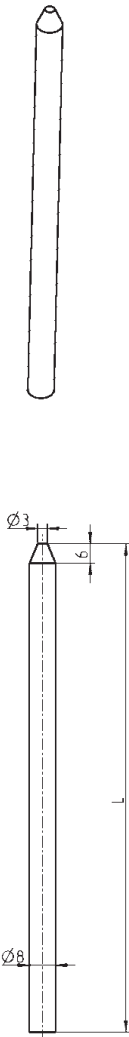
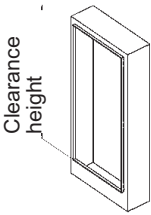
How to find dim. L
when pivot point is central:

with adapter $\frac{\text{Clearance height} - 40}{2}$

with eye $\frac{\text{Clearance height} - 12}{2}$

$L \leq 1200$

Order example: Part number for rod with rollers and a length
L of 1034 mm = 1049-U18-L 1034

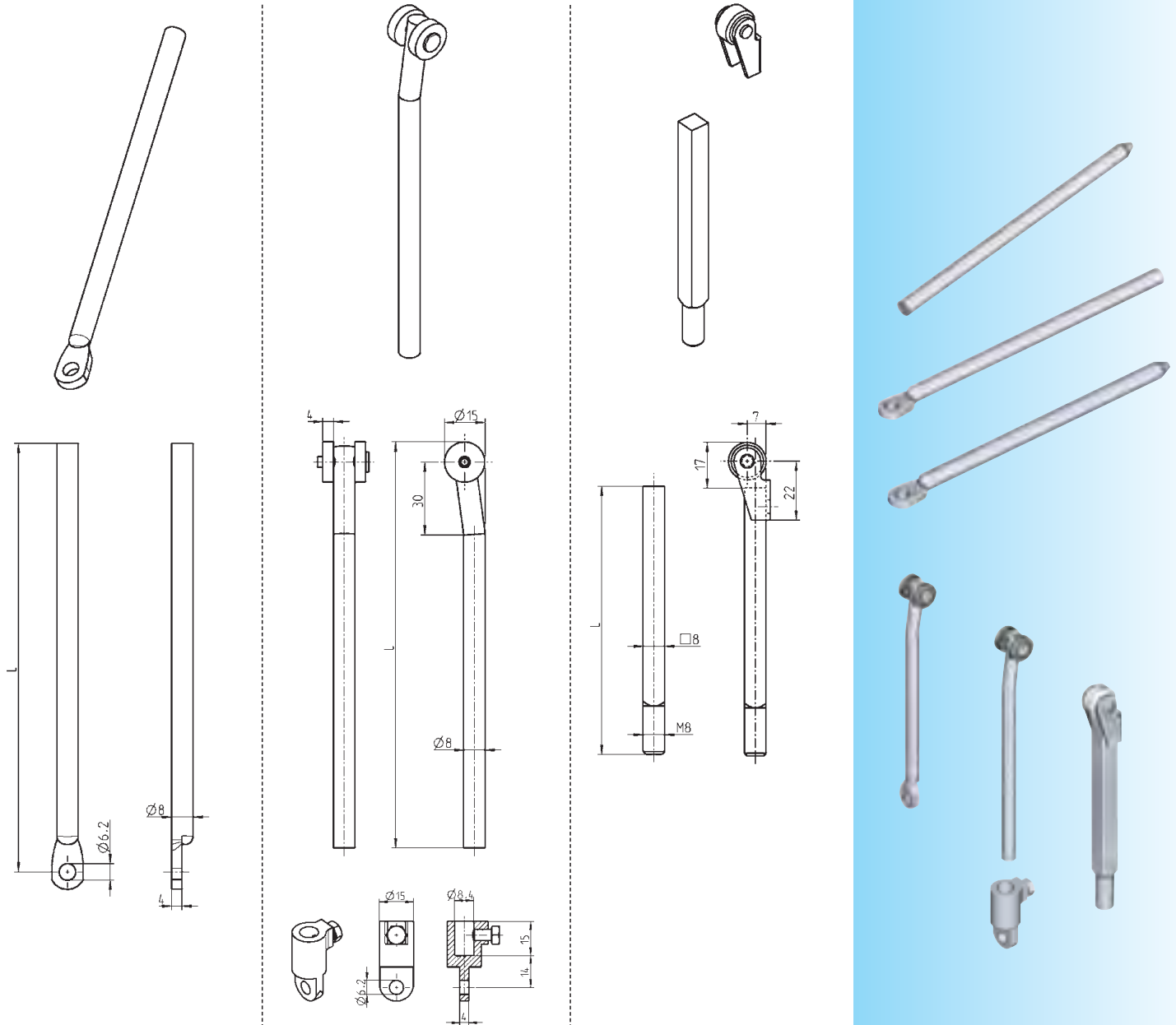


with eye m.s. zinc pl.
with rollers
polyamide black
(not suitable for program 1121
and 2121)
1000-U144-L mm
(1000-U144-01 to -17)
see price list

with eye AISI 304
and rollers
polyamide black
(not suitable for program 1121
and 2121)
1000-U538-L mm
(1000-538-01 to -09)
see price list

Chamfered end m.s. zinc pl.			m.s. zinc pl., with rollers polyamide black			with eye and pointed end, m.s. zinc pl.			with eye AISI 304 and rollers polyamide black (not suitable for program 1121 and 2121)		
1049-19-L mm			1049-U18-L mm			1000-211-L mm			1000-U538-L mm		
(1049-19-01 to -17)			(1049-U18-01 to -17)			(1000-211-01 to -17)			(1000-538-01 to -09)		
see price list			see price list			see price list			see price list		
adapter	zinc die, m.s. z.pl.	AISI 303	adapter	zinc die, m.s. z.pl.	AISI 303						
	1000-U49	1000-U141		1000-U49	1000-U141						

Round- and square rods
in available lengths



Round rod with eye,
m.s. zinc plated

L in mm

400	1000-33
500	1000-34
600	1000-35
700	1000-36
800	1000-37
900	1000-38
1000	1000-39
1100	1000-114
1200	1000-115

Round rod m.s. zinc pl. or AISI
304 with rollers polyamide black

L in mm

m.s. z.pl.

AISI 304

600	1049-U3	1049-U12
700	1049-U4	1049-U13
800	1049-U5	1049-U14
900	1049-U6	1049-U15
1000	1049-U7	1049-U16
1100	1049-U8	1049-U17
1200	1049-U9	—
adapter	zinc die, m.s. z.pl.	AISI 303
	1000-U49	1000-U141

Square rod m.s. zinc pl.
suitable for catalogue page
2B-120

L in mm

600	1001-11
700	1001-12
800	1001-13
900	1001-14
1000	1001-15
1100	1001-16
1200	1001-17

Roller unit m.s. zinc pl.,
roller polyamide white

— 1019-U1

Further parts see page

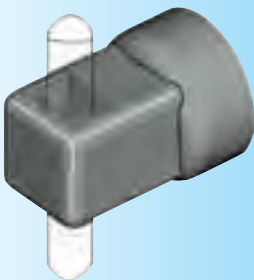
— Cam	1C-120
	1C-130
	1C-220
— Rod control	2A-120
	2B-120
	up to 2B-140
— Rod guide	1C-640

1C-620

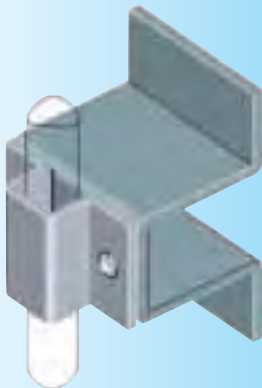
(1C-200)



For round and flat rods



For round rods

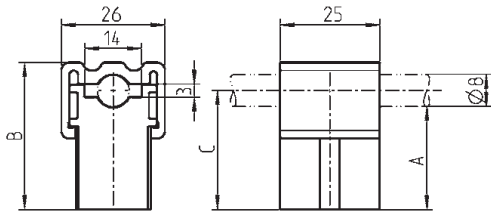
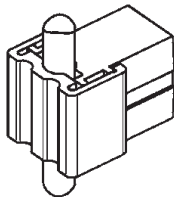


For round- and square rods

Further parts see page
– Rod

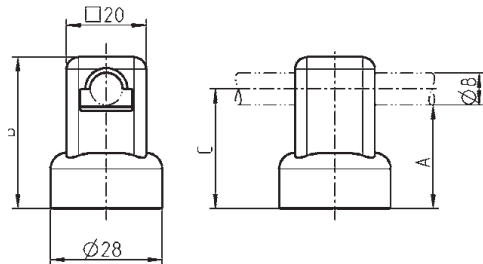
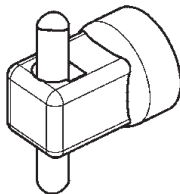
1C-620
8A-360

1C-640
(1C-220)



Rod guide polyamide black

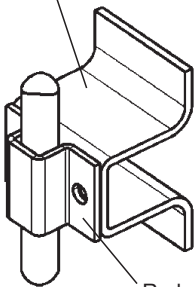
A	B	C	for weld stud	
20	31	24	M6x12 - 20	1001-U40
26	37	30	M6x12 - 20	1001-U41



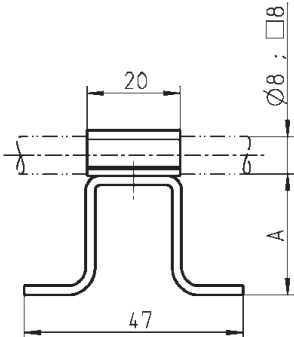
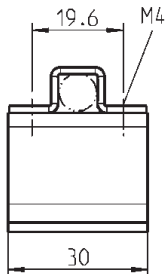
Rod guide polyamide black with acorn nut m.s. zinc pl.

A	B	C	for weld stud	
20	32	24	M6x16	1001-U11
26	38	30	M6x20	1001-U12

Rod support



Rod guide



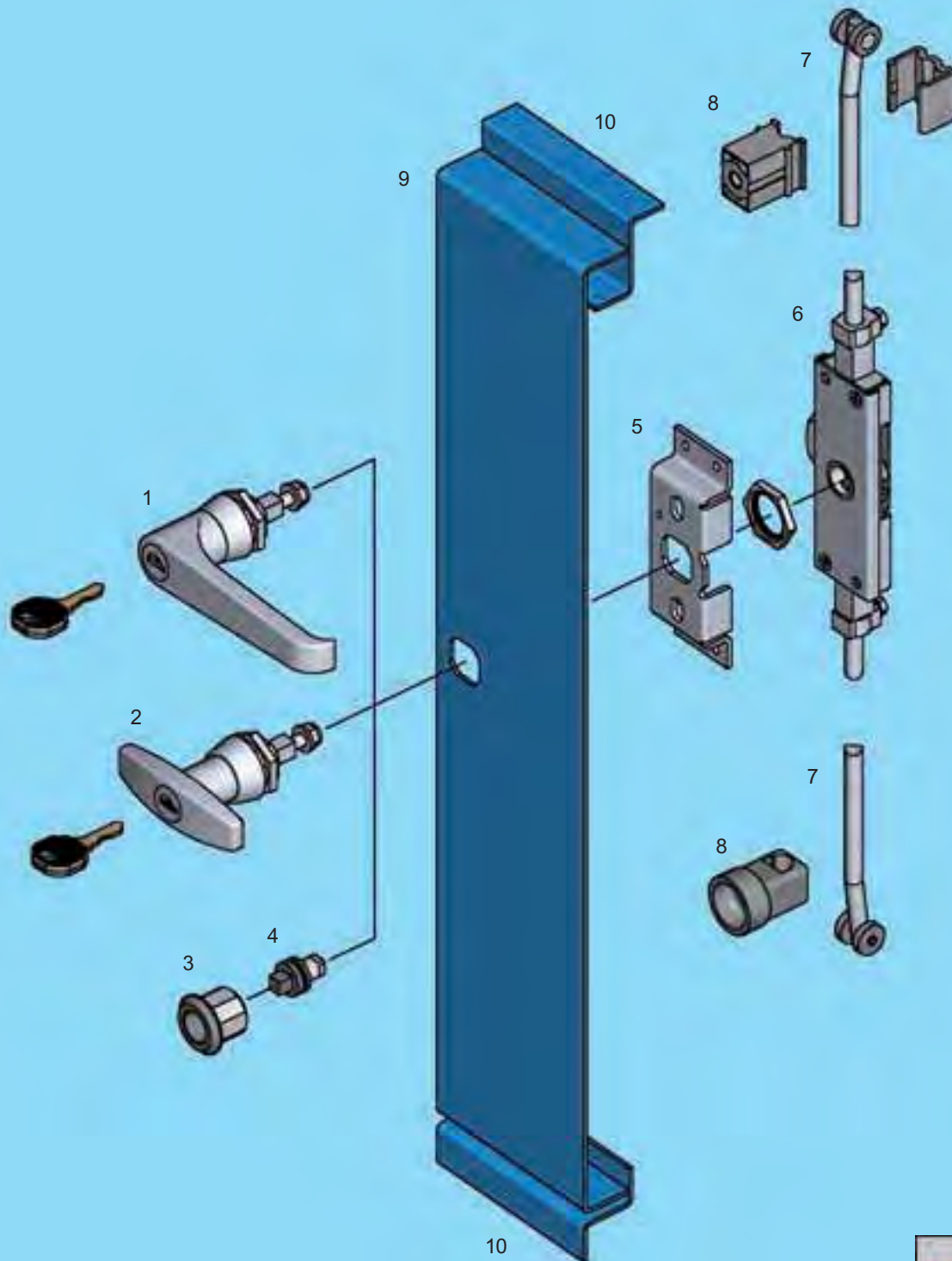
Rod guide m.s. zinc pl.

	1001-22
--	---------

Rod support m.s. raw

A = 20	1001-20
A = 26	1001-21

Latches for heavy duty Screw-on



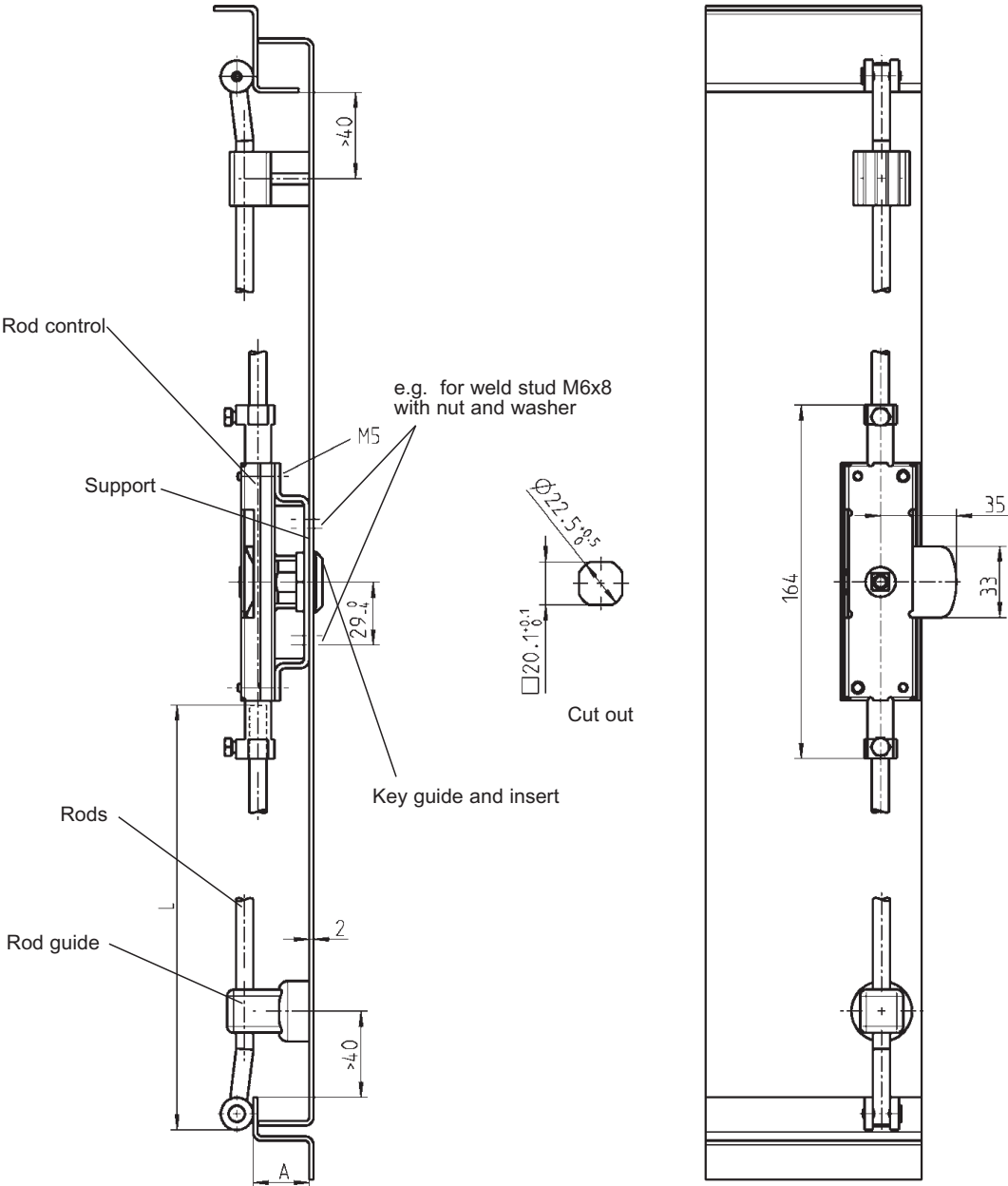
- | | | |
|----|---------------|--------|
| 1 | L-Handle | 2A-140 |
| 2 | T-Handle | 2A-140 |
| 3 | Key guide | 2A-120 |
| 4 | Insert | 2A-120 |
| 5 | Support | 2A-120 |
| 6 | Rod control | 2A-120 |
| 7 | Rods | |
| 8 | Rod guide | |
| 9 | Door | |
| 10 | Cabinet/frame | |



2A-100

3 point latches and inserts PROGRAM SCREW ON

Stroke 13 mm
or stroke 18 mm

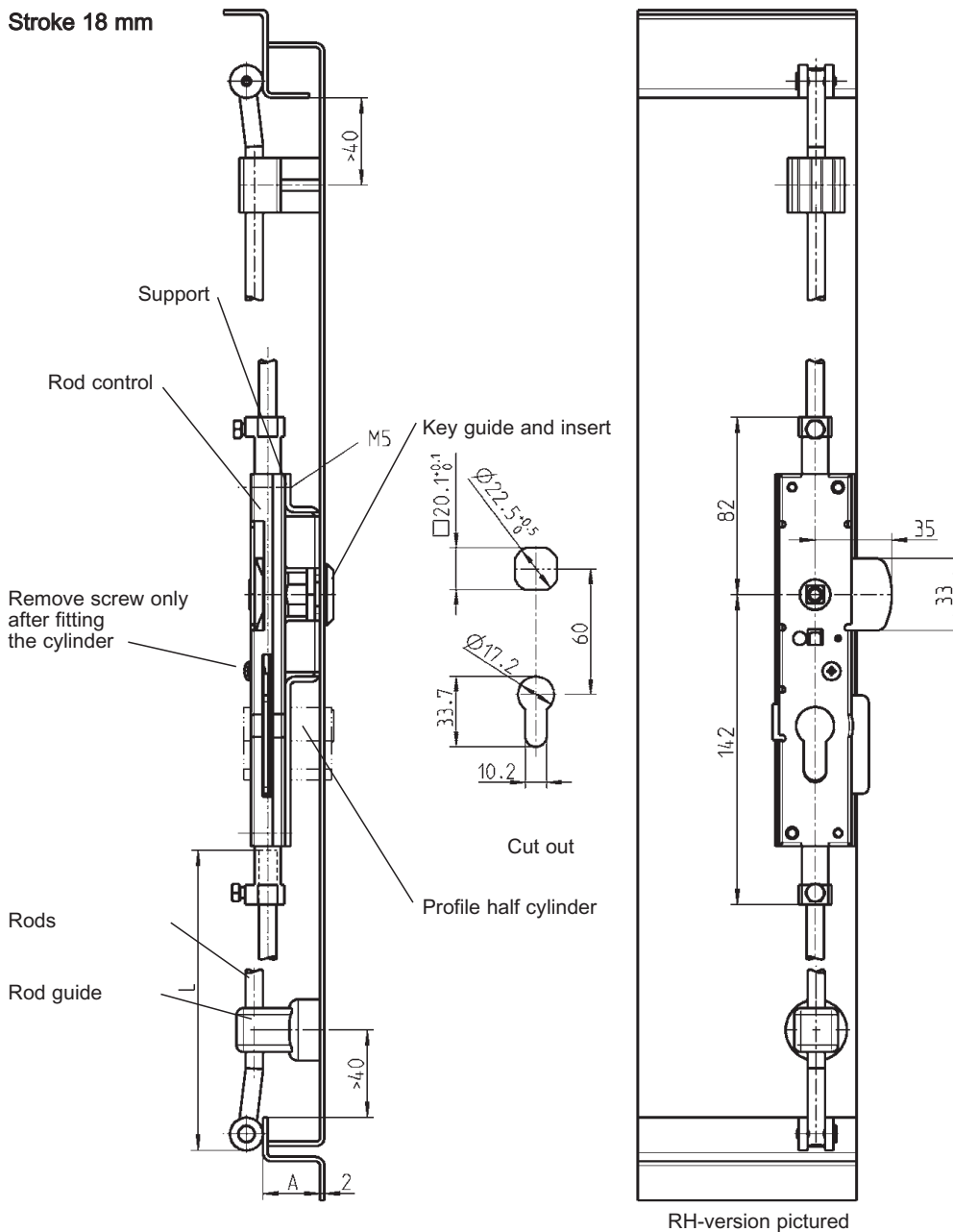


RH-version pictured

Dimensions of latches and
other versions see catalogue
pages 2B-120 to 2B-140

Latch m.s. zinc pl.			Latch m.s. zinc pl. for profile cylinder		
	Stroke 13	Stroke 18			Stroke 18
RH	1049-U1	1049-U19	RH	–	1068-U1
LH	1049-U2	1049-U20	LH	–	1068-U2
Support m.s. zinc plated			Support m.s. zinc plated		
	A20	A26		A20	A26
RH/LH	1001-47	1001-50	RH	1001-45	1001-48
			LH	1001-46	1001-49

Stroke 18 mm



RH-version pictured

Insert
zinc die chrome pl.

Key guide zinc die chrome pl. or black powder coated with nut m.s. zinc pl.

Square	6	1000-59
	7	1000-04
	8	1000-05
Triangular	7	1000-06
	8	1000-07
for double bit	3	1000-08
	5	1000-09
for Daimler Benz		1000-64
for FIAT		1000-352
IP 65 with:		
Flat seal		1000-23
O-ring		1000-24

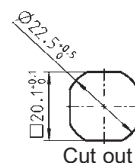
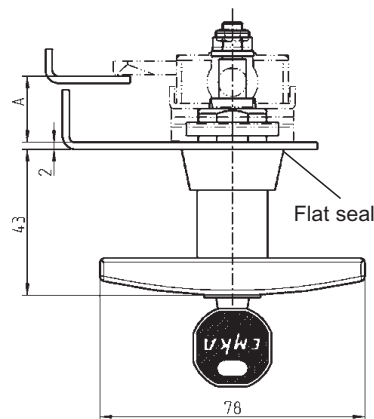
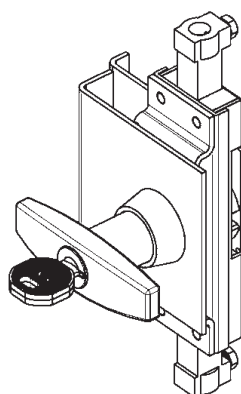
chrome plated	A20	A26
for square and triangular	1001-U13	1001-U14
for double bit	1001-U15	1001-U16
for Daimler Benz	1001-U17	1001-U18
for FIAT	1001-U32	—
black powder coated		
for square and triangular	1001-U24	1001-U25
for double bit	1001-U26	1001-U27
for Daimler Benz	1001-U28	1001-U29
for FIAT	1001-U33	—

Further parts see page

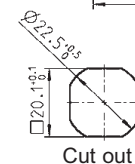
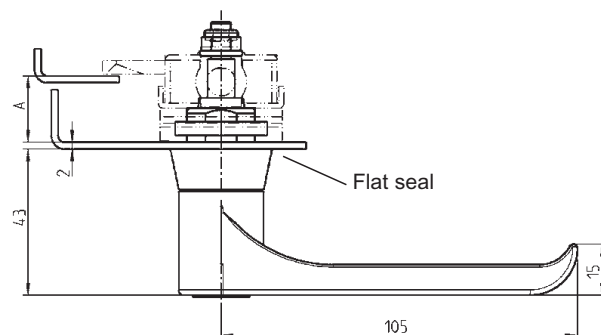
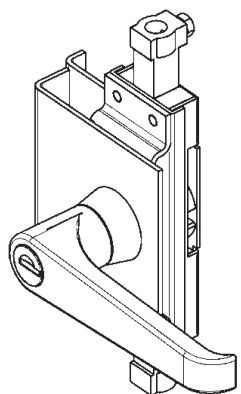
— T-Handle	2A-140
— L-Handle	2A-140
— Rods	1C-620
— Profile half cylinder	2B-220
— Key	12B-120
— Escutcheon	12D-120
— Adapter system for insulated doors	2A-180



T-Handle



L-Handle



T-Handle zinc die with nut and washer m.s. zinc plated with one silver steel key with polyamide grip black and seal

		non locking	Keyed EMKA 333	keyed different
A20	chrome plated	1102-U1	1102-U3	1102-U5
	black powder coated	1102-U7	1102-U9	1102-U11
A26	chrome plated	1102-U2	1102-U4	1102-U6
	black p.c.	1102-U8	1102-U10	1102-U12

L-Handle zinc die with nut and washer m.s. zinc plated with one silver steel key with polyamide grip black and seal – Insert spring loaded –

		chrome plated		black p.c.	
		A20	A26	A20	A26
non locking	(IP 65)	1103-U1	1103-U2	1103-U21	1103-U22
keyed EK 333	(IP 65)	1103-U3	1103-U4	1103-U23	1103-U24
keyed different	(IP 65)	1103-U5	1103-U6	1103-U25	1103-U26
Square	7	1103-U7	1103-U8	1103-U27	1103-U28
Square	8	1103-U9	1103-U10	1103-U29	1103-U30
Triangular	7	1103-U11	1103-U12	1103-U31	1103-U32
Triangular	8	1103-U13	1103-U14	1103-U33	1103-U34
Double bit	3	1103-U15	1103-U16	1103-U35	1103-U36
Double bit	5	1103-U17	1103-U18	1103-U37	1103-U38
Daimler Benz		1103-U19	1103-U20	1103-U39	1103-U40

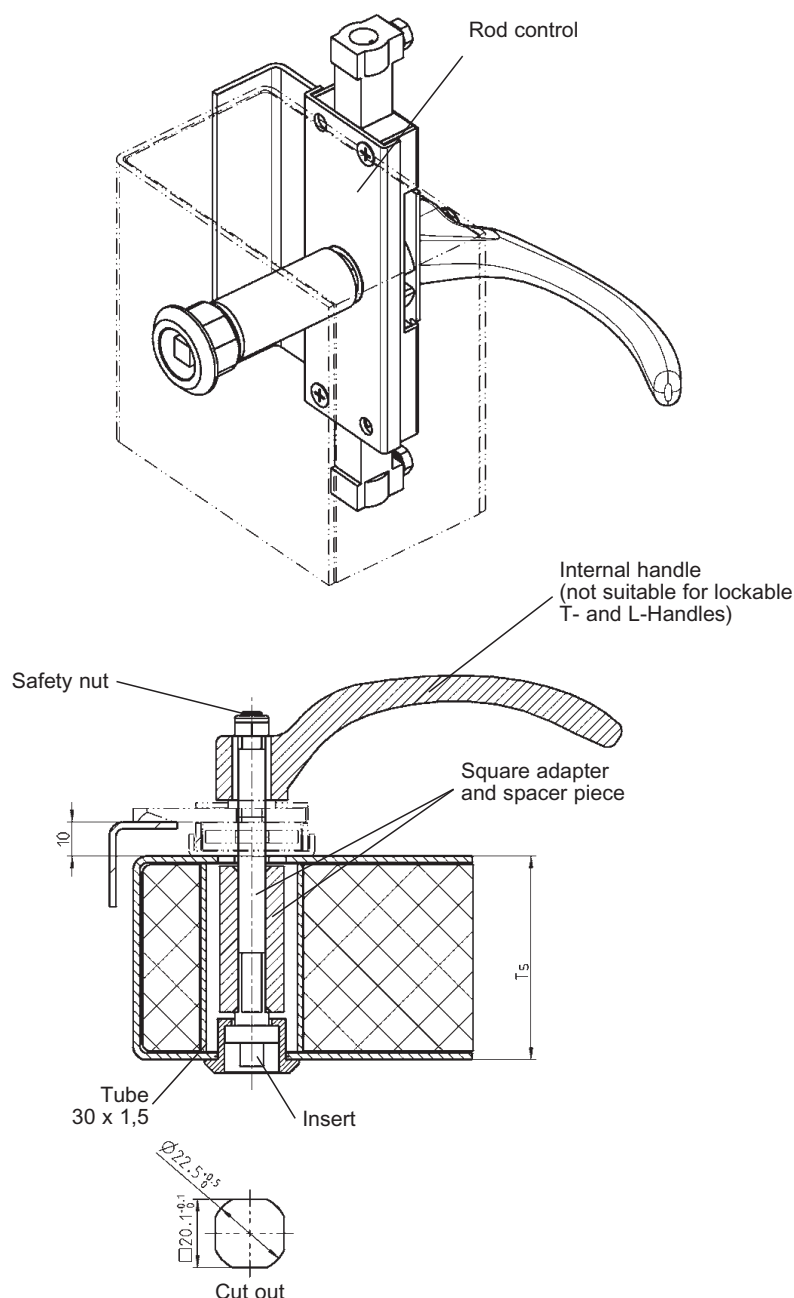
Suitable for program:

1001
1049
1068

Further parts see page

– Dust cap for T-Handle 1C-340
– Spare key 12B-140
– Adapter system for insulated doors 2A-180

Adapter system PROGRAM SCREW ON



System can be pre-assembled with handle or insert and retained with M6 safety nut.



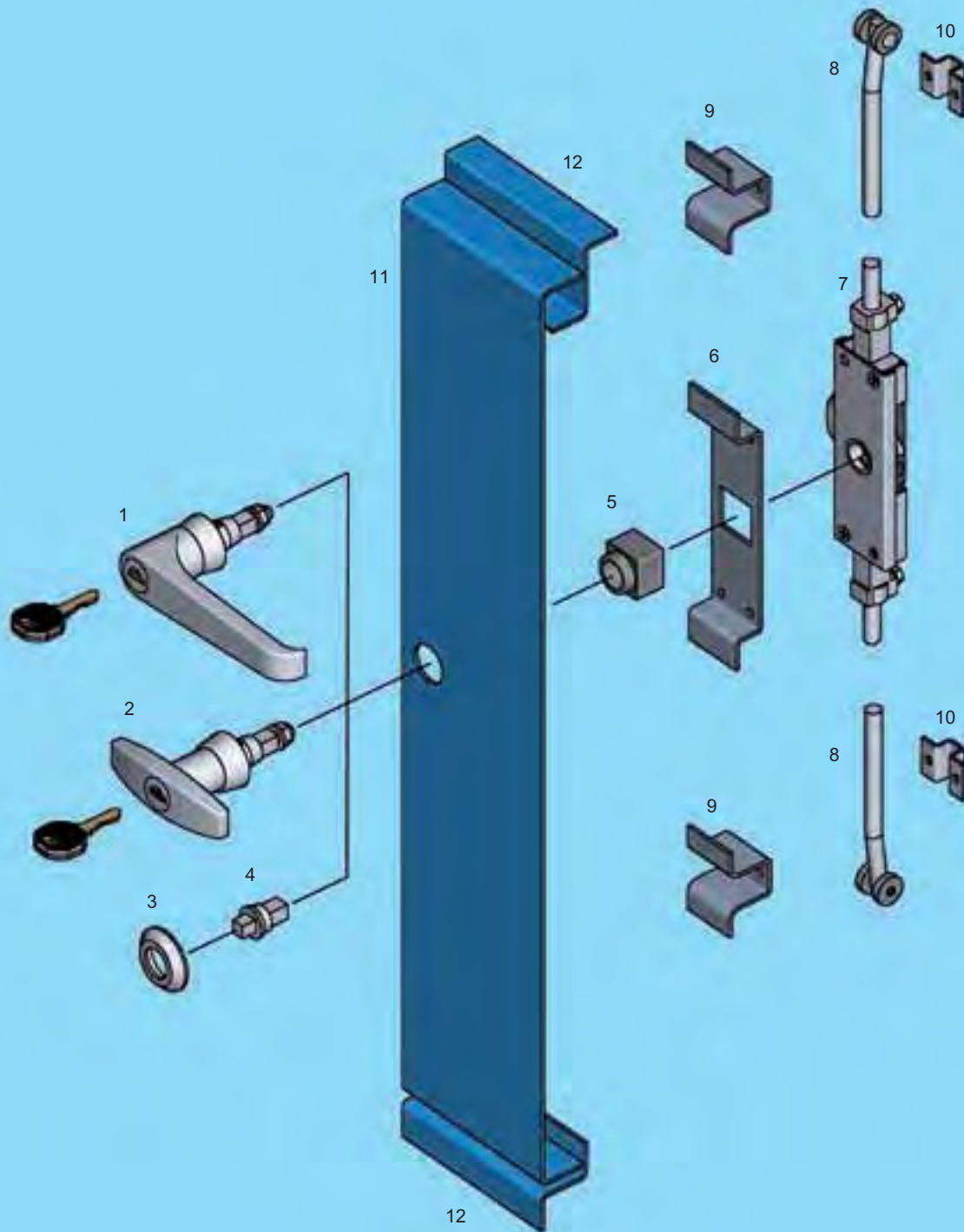
Insert, m.s. zinc plated Key guide zinc die chrome plated Safety nut m.s.zinc plated		Door gauge Ts	Square adapter m.s.z.pl.	Spacer piece aluminium
Square	7	1001-U21	20	–
Square	8	1001-U22	40	1x1001-65
Double bit	5	1001-U23	50	1x1001-66
Adapter for internal handle m.s.zinc plated			60	1x1001-67
		1001-65	80	2x1001-66
Int. handle zinc die chrome pl.		1107-48	100	2x1001-67

Further parts see page

– Rod control	2A-120
	2B-120
	2B-130
	2B-180
– T- or L-Handle A = 26	2A-140

Notes:

Latches for heavy duty Weld-on



- | | | |
|----|---------------|-----------------------------|
| 1 | L-Handle | 2B-160 |
| 2 | T-Handle | 2B-160 |
| 3 | Bezel | 2B-160 |
| 4 | Insert | 2B-160 |
| 5 | Key guide | 2B-160 |
| 6 | Support | 2B-120 up to 2B-140, 2B-180 |
| 7 | Rod control | 2B-120 up to 2B-140, 2B-180 |
| 8 | Rod | |
| 9 | Rod support | |
| 10 | Rod guide | |
| 11 | Door | |
| 12 | Cabinet/frame | |

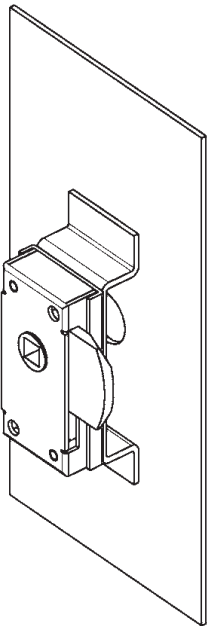


2B-100

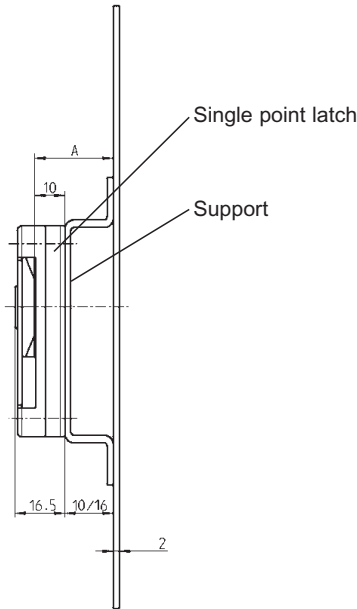
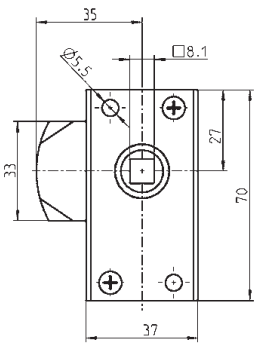
One / Two point latch and Hooked latch

PROGRAM WELD ON

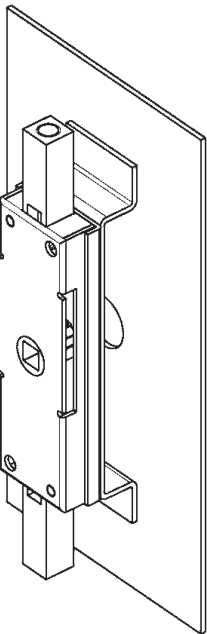
One point latch



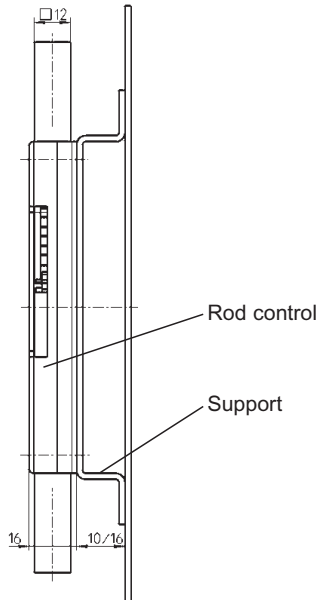
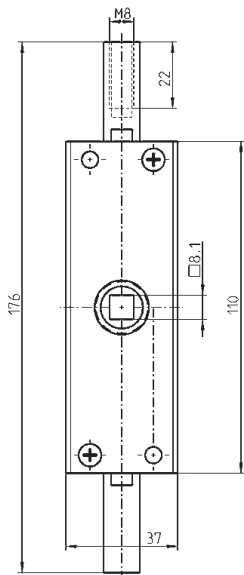
90° Turn



Two point latch for screw-in rod



180° turn
stroke 32 mm



One point latch m.s. zinc pl., RH and LH-version

Support m.s. raw

A20

1002-U1

1002-04

A26

1002-05

Two point latch m.s. zinc pl.

RH

1001-U19

LH

1001-U20

Support m.s. raw

A20

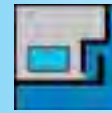
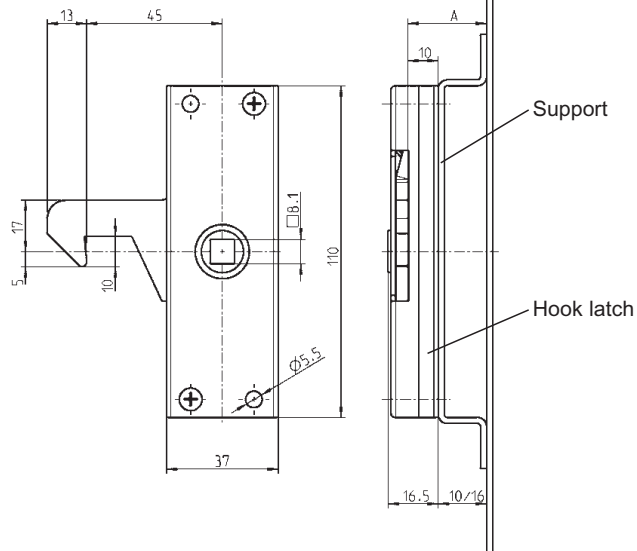
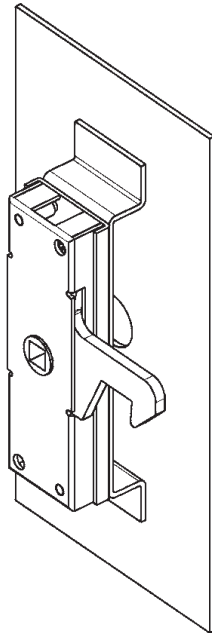
1001-18

A26

1001-19

Hook latch

Hook free running (spring loaded)



Further parts see page

– Insert	2B-160
– T-Handle	2B-160
– L-Handle	2B-160
– Ring-handle	2B-190
– Rod	1C-620
– Adapter system for insulated doors	2A-180

Hook latch m.s. zinc pl.

RH

1001-U30

LH

1001-U31

Support m.s. raw

A20

1001-18

A26

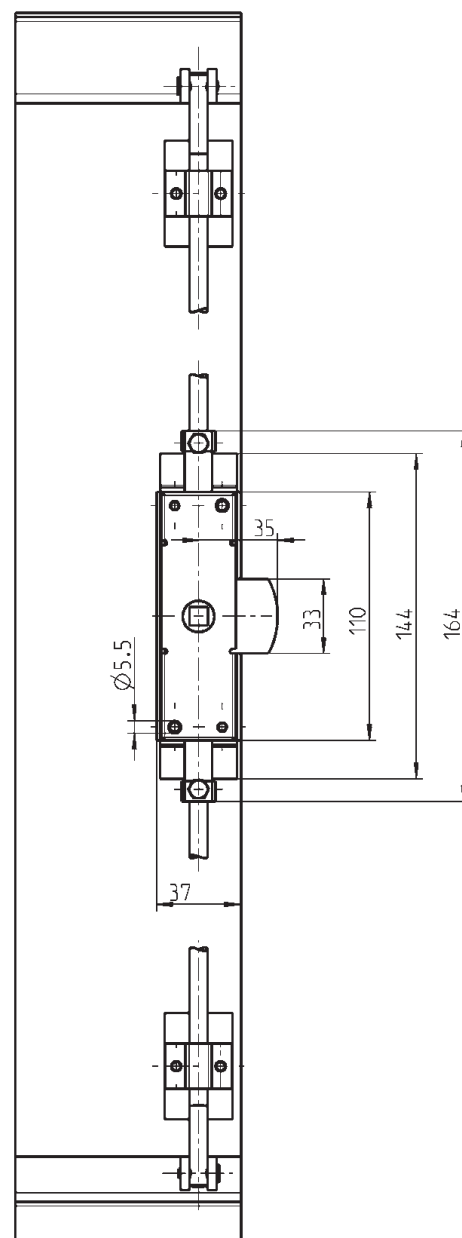
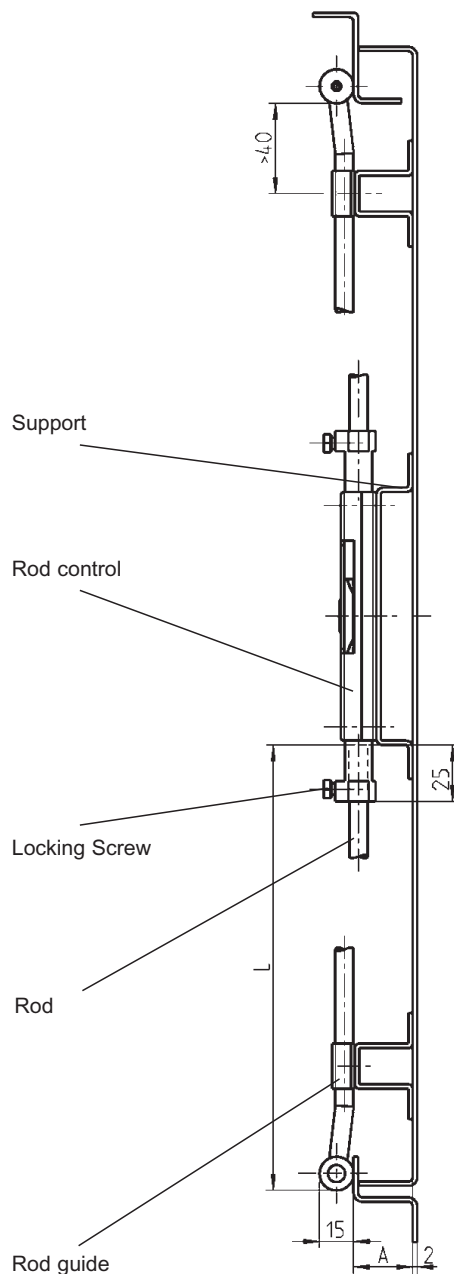
1001-19

Rod control PROGRAM WELD ON



3 point latch for round rods, fixed with screw
Stroke 13 or 18 mm

90° Turn



Latch without insert can be operated with a male square key during assembly, see page 12B-120

Further parts see page

– Insert, bezel	2B-160
– L-Handle	2B-160
– T-Handle	2B-160
– Ring-handle	2B-190
– Rod	1C-620

Program 1107

– Swinghandle	3A-220
---------------	--------

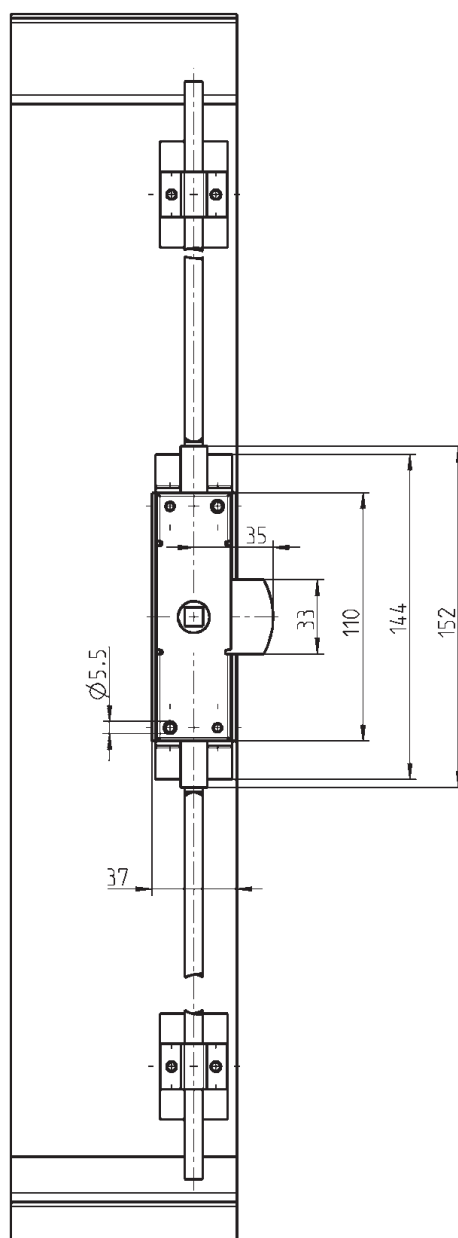
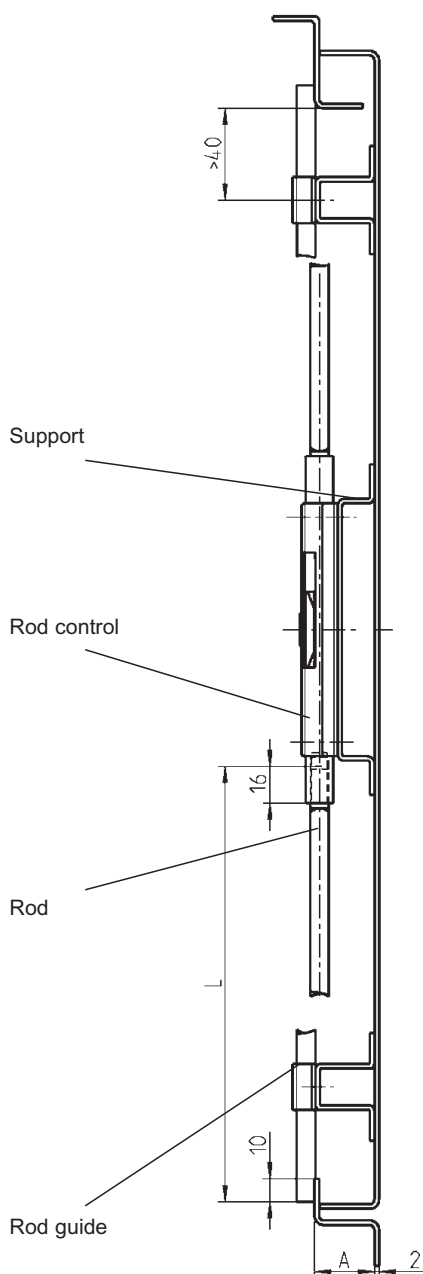
Latch m.s. zinc plated		Stroke 13	Stroke 18
	RH	1049-U1	1049-U19
	LH	1049-U2	1049-U20
Support m.s. raw		A20	A26
		1001-18	1001-19

Rod control

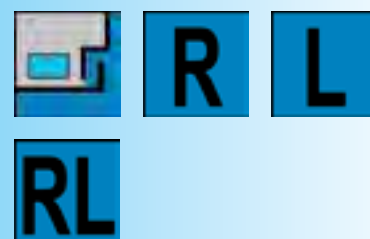
PROGRAM WELD ON

3 point latch for round rods.
Stroke 13 mm

90° Turn



Latch without insert can be operated with a male square key during assembly, see page 12B-120



Latch m.s. zinc plated

RH

Stroke 13

1001-U1

LH

1001-U2

Support m.s. raw

A20

A26

1001-18

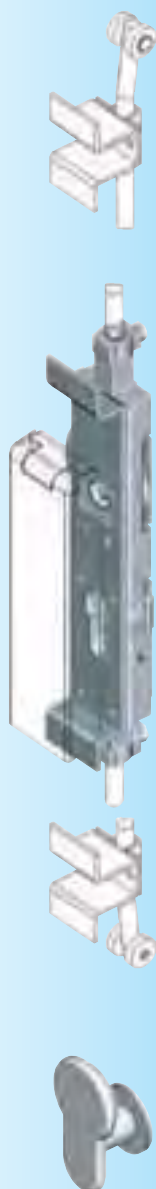
1001-19

Further parts see page

- Insert, bezel 2B-160
- L-Handle 2B-160
- T-Handle 2B-160
- Ring-handle 2B-190
- Rod 1C-620

Program 1107

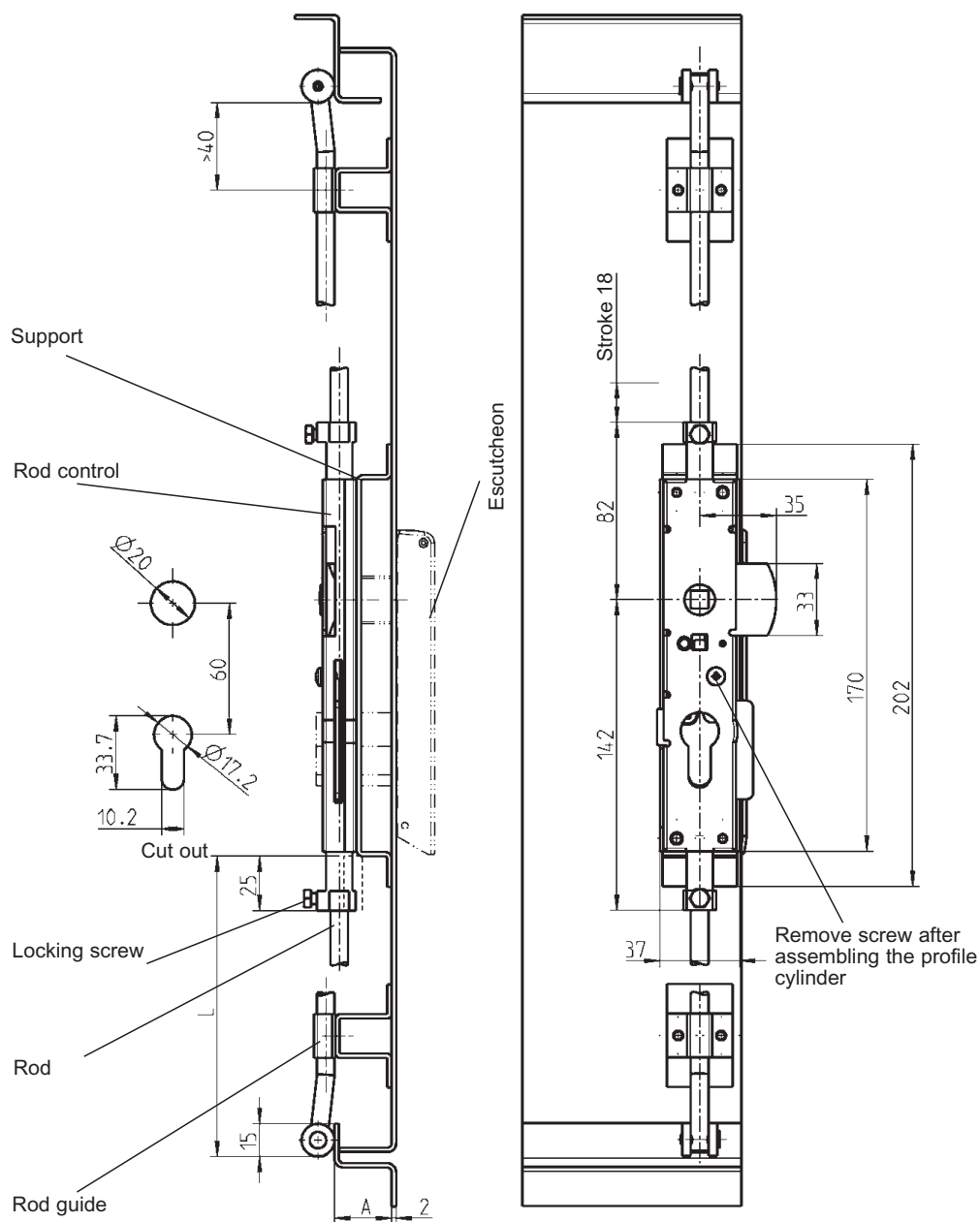
- Swinghandle 3A-220



Further parts see page

– Insert, bezel	2B-160
– T-Handle	2B-160
– L-Handle	2B-160
– Ring-handle	2B-190
– Rod	1C-620
– Profile half cylinder	2B-220
– Escutcheon	12D-120

90° Turn
Stroke 18 mm



Latch m.s. zinc plated

RH	1068-U1
LH	1068-U2

Support m.s. raw

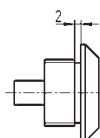
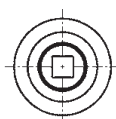
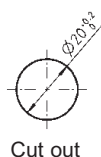
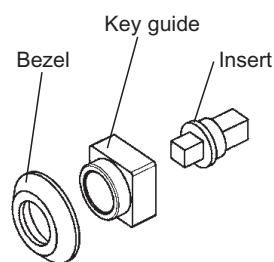
A20	1017-14
A26	1017-15

Blind plug for profile cylinder cut out

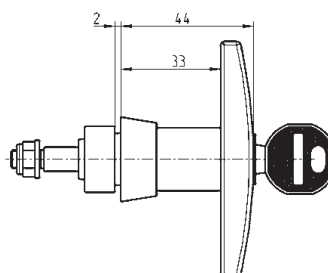
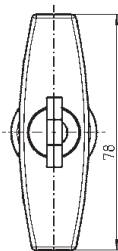
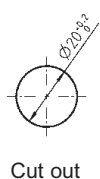
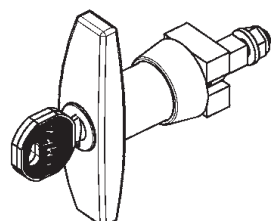
A20	1059-U1
A26	1059-U2

Inserts and Handles

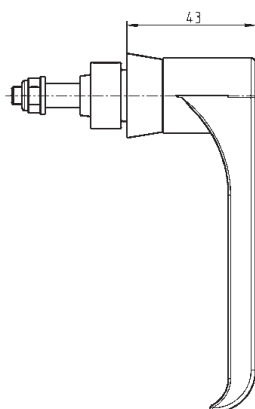
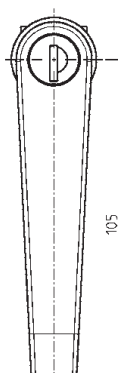
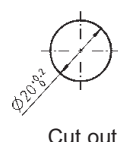
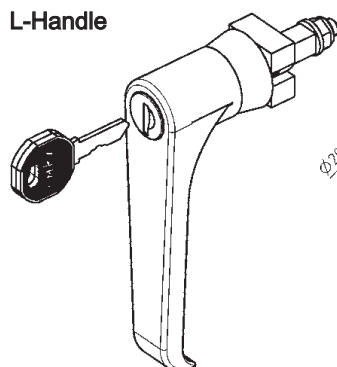
PROGRAM WELD ON



T-Handle



L-Handle



RL



T-Handle zinc die chrome plated

Nut m.s. zinc pl.	A20	A26
non locking	1005-U1	1005-U4
keyed EK 333	1005-U2	1005-U5
keyed different	1005-U3	1005-U6

L-Handle, zinc die chrome plated

Nut m.s. zinc pl.	A20	A26
non locking	1044-U1	1044-U4
keyed EK 333	1044-U2	1044-U5
keyed different	1044-U3	1044-U6
Square 7	1044-U7	1044-U8
Square 8	1044-U11	1044-U12
Triangular 7	1044-U13	1044-U14
Triangular 8	1044-U15	1044-U16
Double bit 3	1044-U17	1044-U18
Double bit 5	1044-U19	1044-U20
Daimler Benz	1044-U9	1044-U10
Eastern Europe Ø 13	1044-U21	1044-U22

Insert zinc die chrome plated

Square 7	1001-23
Square 8	1001-24
Triangular 7	1001-25
Triangular 8	1001-26
Double bit 3	1001-27
Double bit 5	1001-28
Daimler Benz	1001-34
Key guide ABS	A20 A26
Square and triangular	1001-31 1001-32
Double bit	1001-29 1001-30
Daimler Benz	1001-35 1001-36

Bezel, self-adhesive

ABS chrome plated	1001-33
to achieve an optical look alike with quarter turn page 1B-140	

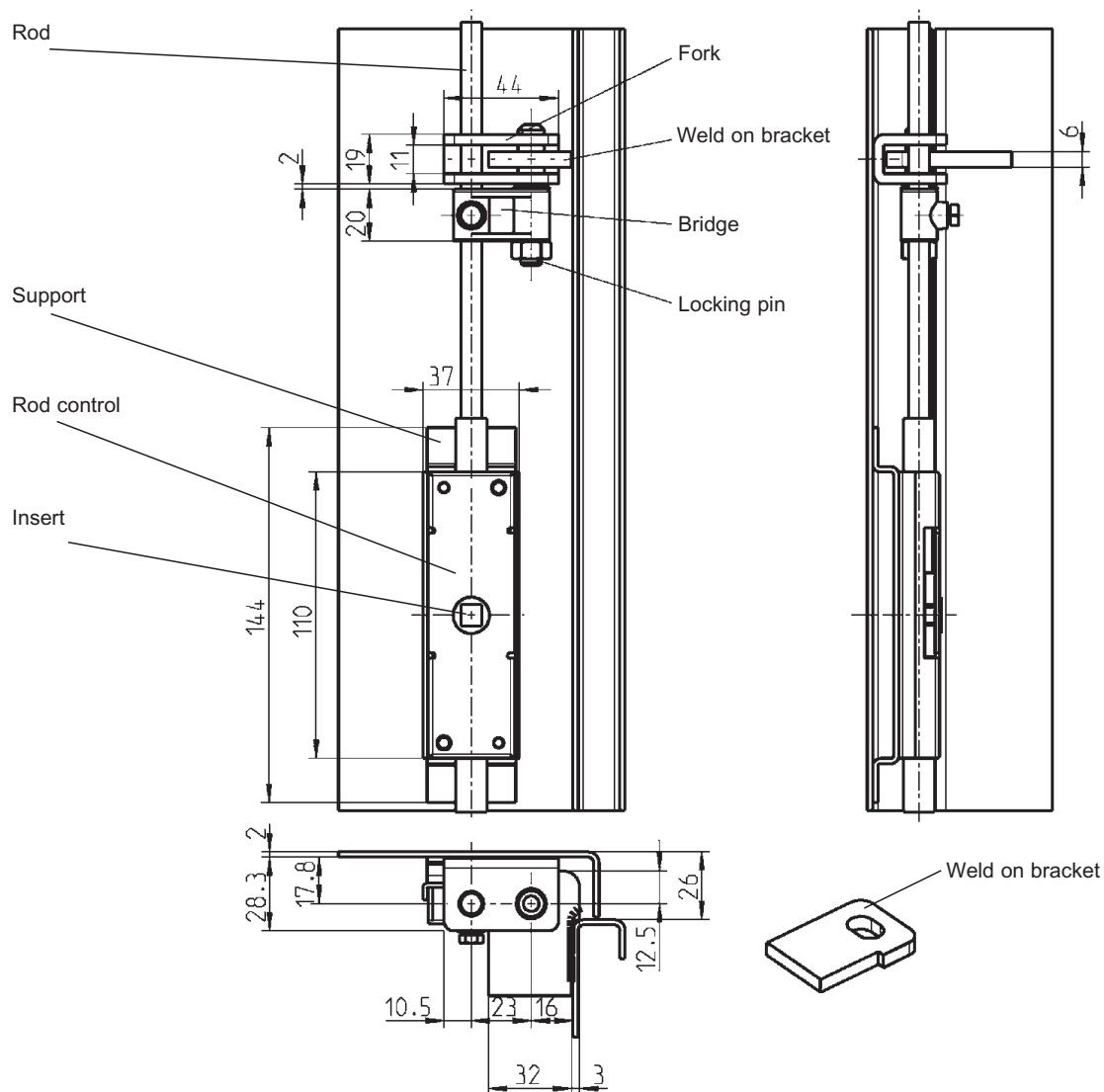
Note:
Sprung loaded return (two handed operation)

Further parts see page

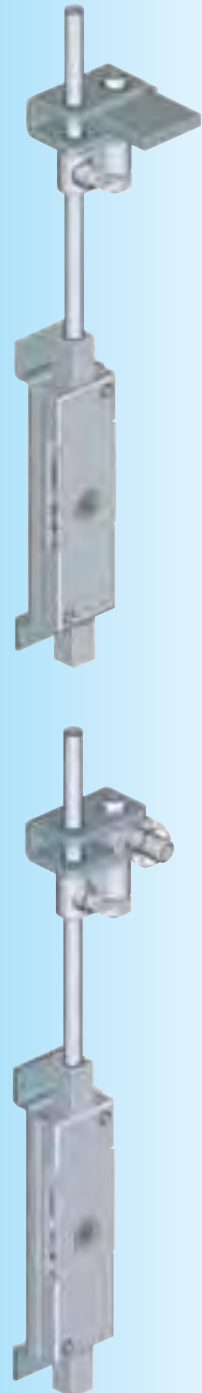
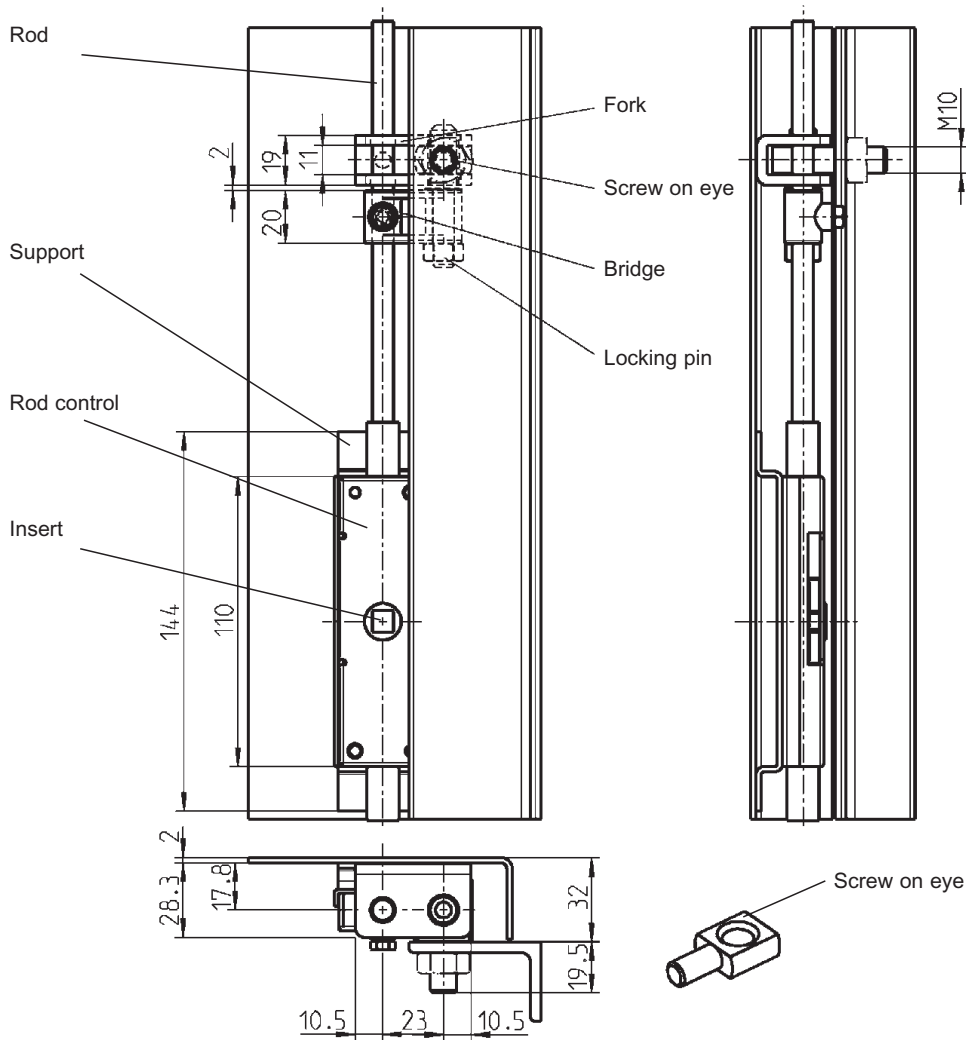
- Dust cap for T-Handle 1C-340
- Key 12B-120
- Spare key 12B-140
- Hook latch 2B-120
- Rod control 2B-130
- up to 2B-140

Rod control, Pressure tight system

PROGRAM WELD ON



Latch m.s. zinc plated	Stroke 18
RH	1001-U9
LH	1001-U10
Support m.s. raw	1001-18
Insert zinc die chrome pl.	
Double bit 5	1001-28
Key guide ABS	1001-29
Bezel ABS chrome pl.	1001-33
Rod m.s. zinc pl.	
L = 1000 mm	1092-03
Pressure tight link complete (consisting of see below)	1092-U3
Fork m.s.raw	(1092-02)
Weld on bracket m.s.raw	(1092-01)
Bridge zinc die zinc pl.	(1092-U8)
Pin m.s. zinc pl.	(1092-U6)

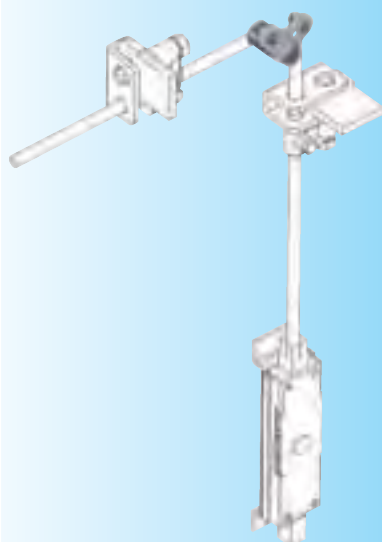


Latch m.s. zinc plated	Stroke 18
RH	1001-U9
LH	1001-U10
Support m.s. raw	1001-18
Insert zinc die chrome pl.	
Double bit 5	1001-28
Key guide ABS	1001-29
Bezel ABS chrome pl.	1001-33
Rod m.s. zinc pl.	
L = 1000 mm	1092-03
Pressure tight link complete (consisting of see below)	1092-U4
Fork m.s.raw	(1092-02)
Screw on eye m.s. zinc pl.	(1092-06)
Bridge zinc die zinc pl.	(1092-U8)
Pin m.s. zinc pl.	(1092-U6)

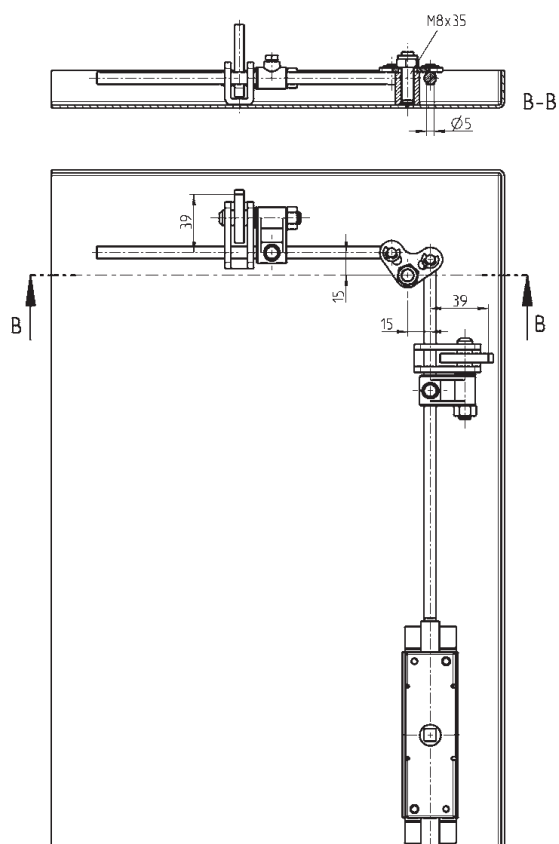
Individual parts on request

Further parts see page

– 90° rod pivot 2B-190
– Screw-on hinge 4A-260



Pressure tight system, 90° rod pivoting

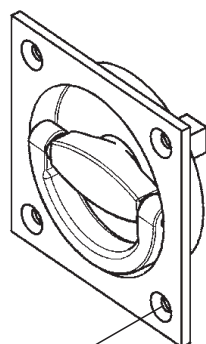


Pivot segment brass nickel pl., bearing bush and adapter m.s. raw, safety nut M8 and 2 circlips DIN 6799 m.s. zinc pl.

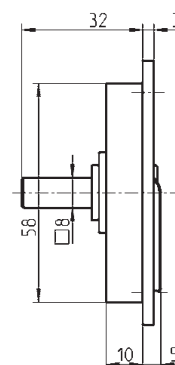
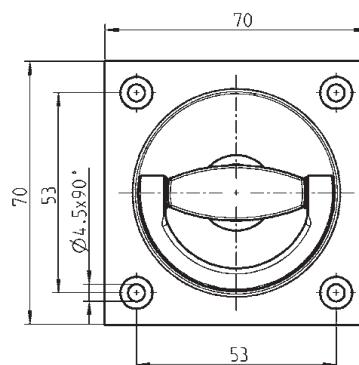
1092-U7



Ring-handle



For countersunk small head M4 DIN ISO 2009, 2010, 7046-1, 7046-2, 7047



Further parts see page
– Rod control

2B-120
2B-130
2B-135
2B-140

Ring-handle zinc die silver powder coated

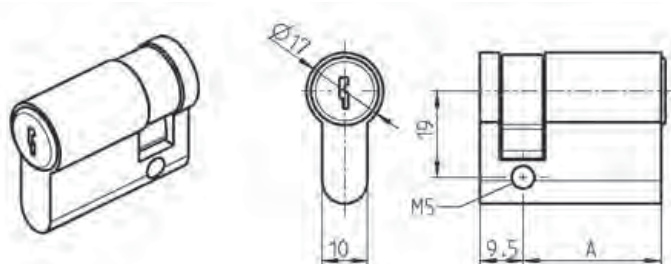
1098-U1

Profile half cylinder

PROGRAM UNIVERSAL

Beschlagteile

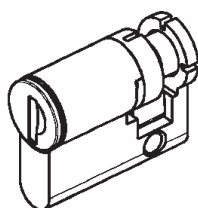
Profile half cylinder to DIN 18 252 (EN 1303)



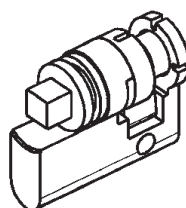
Profile half cylinder according to DIN 10 252
brass nickel pl. with 3 keys

keyed different	A = 30	1089-U1
keyed 110319 N	A = 30	1089-U2
(Master key system on request)		

EMKA Profile half cylinder with round
cylinder, rotates 360°



EMKA Profile half cylinder with inserts,
rotates 360°



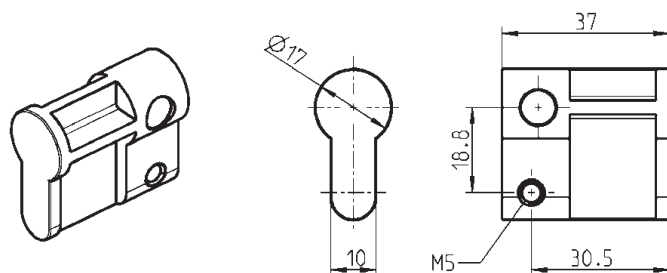
EMKA profile half cylinders with round cylinder zinc die with stainless steel cap and shutter with
one silver steel key with polyamide grip black, rotates 360°.

keyed different or keyed EK 333 on request

EMKA profile half cylinder with insert zinc die chrome pl., rotates 360°.

Insert, e.g. square, triangular, double bit, slotted and more on request

Blind plug



Blind plug

polyamide black 1109-09-AA

Blind plug for rod locking system program 1068

(illustration shown on bottom right of this page)

A20

1059-U1

A26

1059-U2

Further parts see page

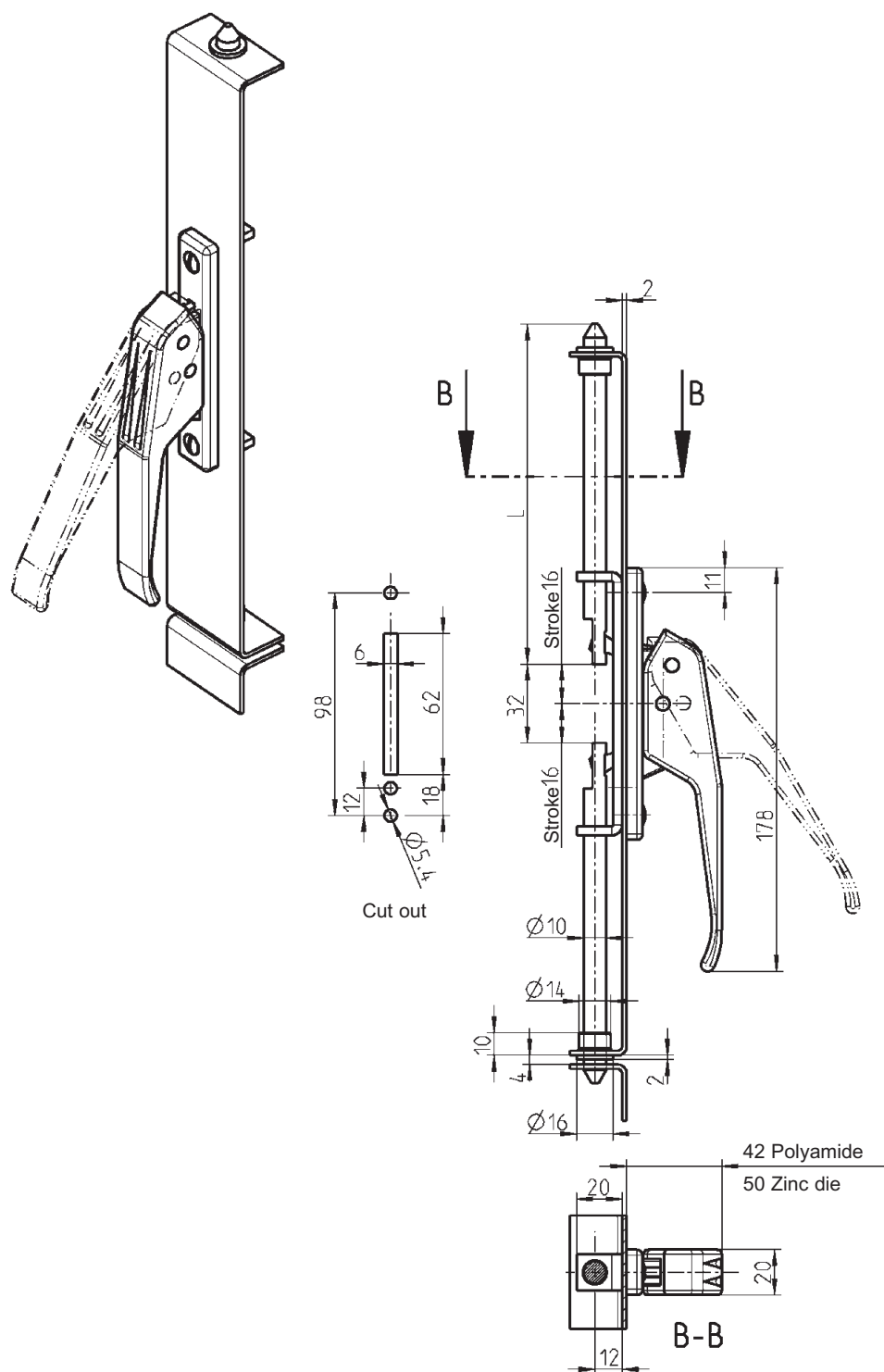
- Key 12B-120
- Spare key 12B-140
- Rod control 2A-120
- 2B-140

2B-220



Notes:

Lever locking system PROGRAM 1099



Lever, material of choice with guiding bracket m.s. zinc pl.
guiding bushes brass nickel pl., screws m.s. zinc pl.

Lever zinc die silver powder coated

1099-U1

Lever polyamide black

1099-U4

Order separately:

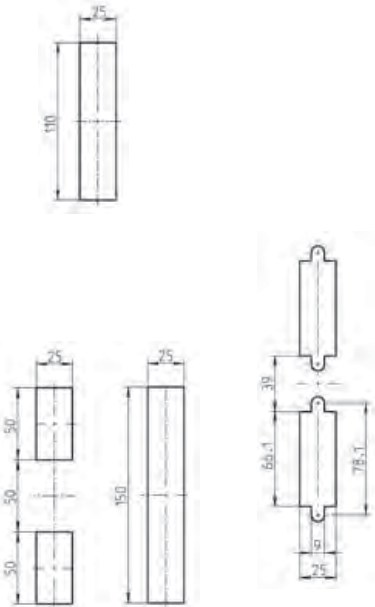
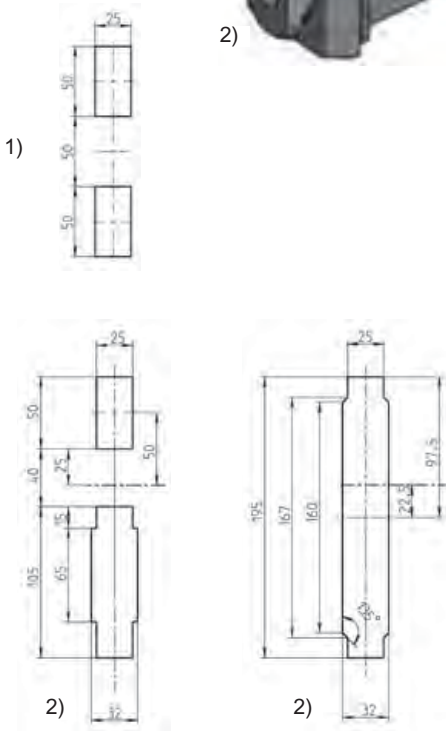
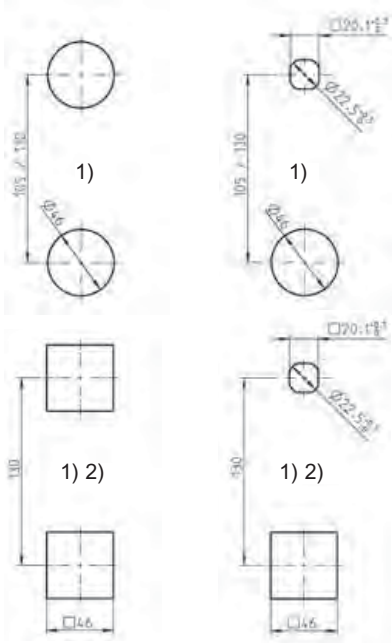
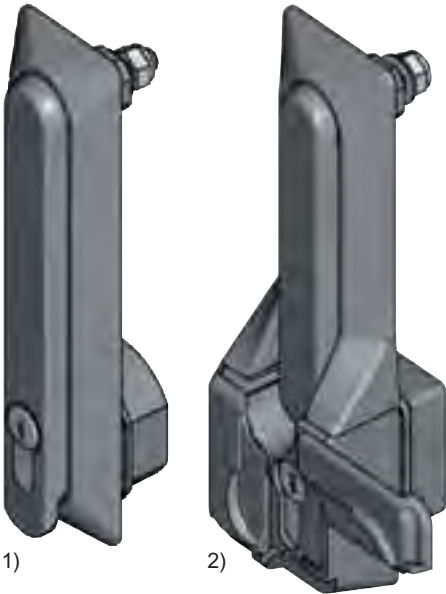
Rod m.s. zinc pl. 1100 mm

1099-03

Other lengths on request

Swinghandles, lift handles and escutcheons, Part 1

1107	1107	1125	1125	1150	1150
Swinghandle	Double cylinder-swinghandle	Swinghandle	Double cylinder-swinghandle	Swinghandle 1150	Swinghandle 1151
3A-100	3A-100	3B-100	3B-100	3C-100	3C-100



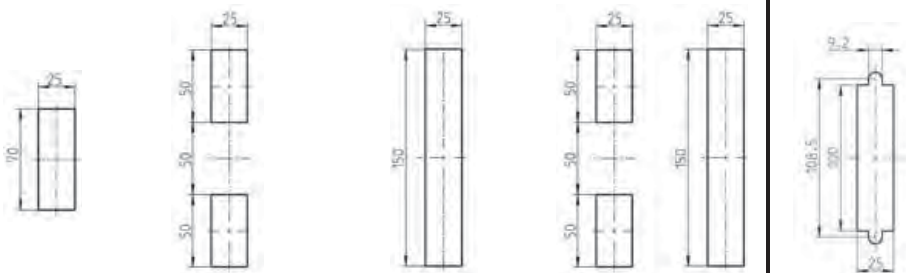
•	•	•	•	•	•
		•			•
IP 65	IP 65	IP 40/IP 65	IP 65	IP 65	IP 54/IP 65
		•		•	•
		•		•	•
•	•	•	•		•
•		•			•
•	•	•	•	•	
•				•	•
		•			
		•			

1150	1150	1150	1150	1160
Swinghandle 1152	Swinghandle 1153	Swinghandle 1154	Swinghandle 1155	Swinghandle
3C-100	3C-100	3C-100	3C-100	3D-100

Beschlagteile
See page

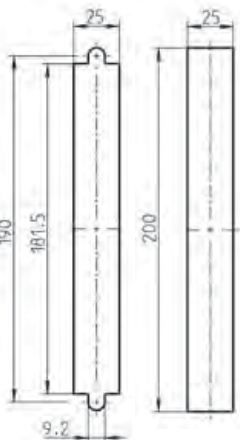
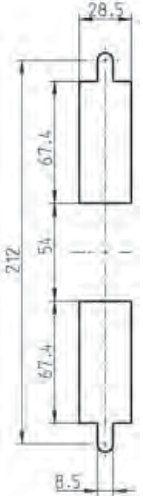
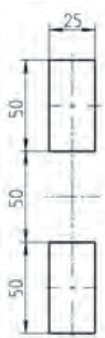
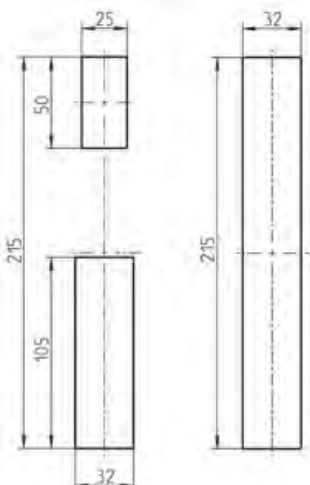
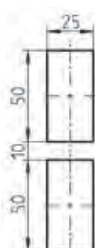


→
Please see next page
for second part.
Survey of further
products.



•	•	•	•	•	Assembling inside the gasketing
				•	Outside the gasketing
IP 65	IP 65	IP 65	IP 65	IP 65	Protection: IP
				•	Unlocked with insert
•			•	•	Unlocked with round cylinder
	•	•			Unlocked with profile half cylinder
					Unlocked electronically
•	•	•	Combination lock		Unlocked without key
					Modular locking
			•		Handle and escutcheon polyamide
				•	Handle zinc die and escutcheon polyamide
•	•	•		•	Handle and escutcheon zinc die
		•			Handle and escutcheon stainless steel
				•	Fitting escutcheons

Swinghandles, lift handles, and escutcheons, part 2

1180	1190	1225	1225	1225	2100
Swinghandle	Lifthandle	Swinghandle	Double cylinder-Swinghandle	Swinghandle	Swinghandle
3E-100	3F-100	3G-100	3G-100	3G-100	3H-100
     					
     					
•		•	•	•	•
•	•	•			•
IP 54	IP 40	IP 40/IP 65	IP 65	IP 65	IP 54
•	•	•			•
•	•	•		•	•
•	•	•	•		•
•	•	•			•
•	•	•			•
•	•	•		•	•
•			•		
•					•
•		•			•

- 3** Locking
- 2** Rod controls
- 1** Quarter turns

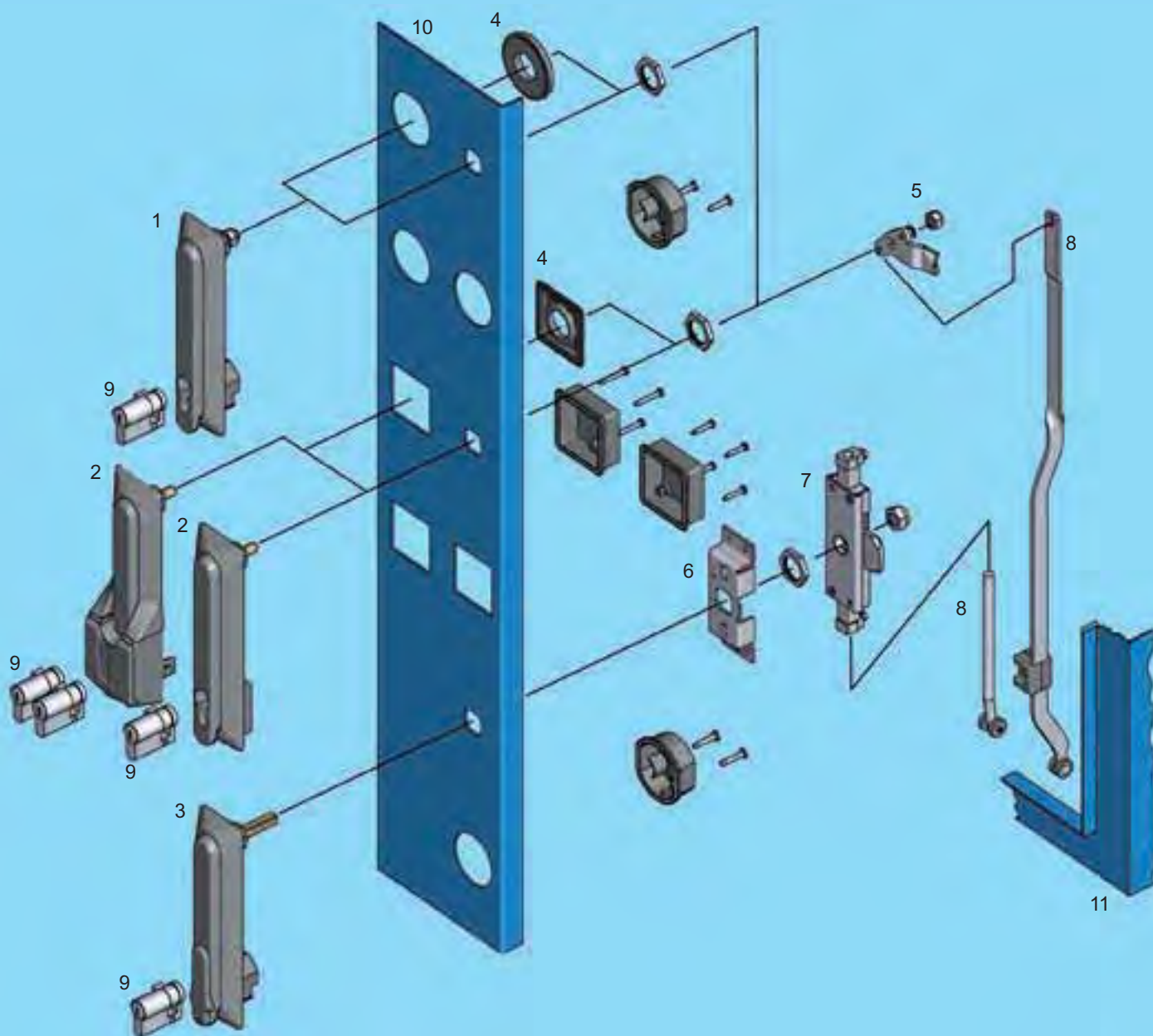
Swinghandle Program 1107

Info

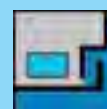
1 Quarter turns

2 Rod controls

3 Locking
systems



- | | | |
|----|-----------------------|----------------|
| 1 | Swinghandle | 3A-120, 3A-140 |
| 2 | Swinghandle | 3A-320, 3A-360 |
| 3 | Swinghandle | 3A-220 |
| 4 | Adapter | |
| 5 | Cam | |
| 6 | Support | |
| 7 | Rod control | |
| 8 | Rod | |
| 9 | Profile half cylinder | |
| 10 | Door | |
| 11 | Cabinet/frame | |

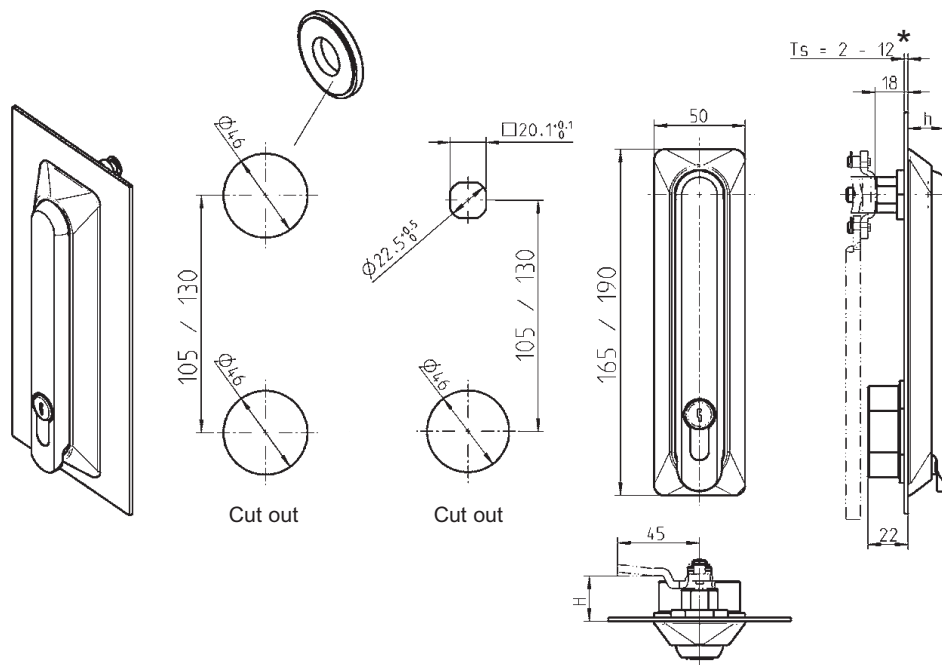


3A-100



Version A

Version B



Attention:

With adapter the maximum door gauge (Ts) will be 6 mm

Note:

If door gauge (Ts) > 4 mm standard round rods cannot be used!

Swinghandle polyamide GF black, shaft brass,
fixing material m.s. zinc pl., with seal

Swinghandle "long" (190) for profile half cylinder

40 (h = 20)

1107-U1-G

but with dust cap sealable

40 (h = 20)

1107-U2-G

40 (h = 20) (Handle zinc die black p.c.)

1107-U102-G

45 (h = 25)

1107-U32-G

Swinghandle "short" (165), for profile half cylinder

40 (h = 20)

1107-U158-G

but with dust cap sealable

40 (h = 20)

1107-U159-G

45 (h = 25)

1107-U169-G

Adapter polyamide GF black required for cut out version A

40 (h = 20)

1107-53

Seal for adapter

1107-61-02VB

* Order screw set separately if Ts > 4 mm

1107-U170

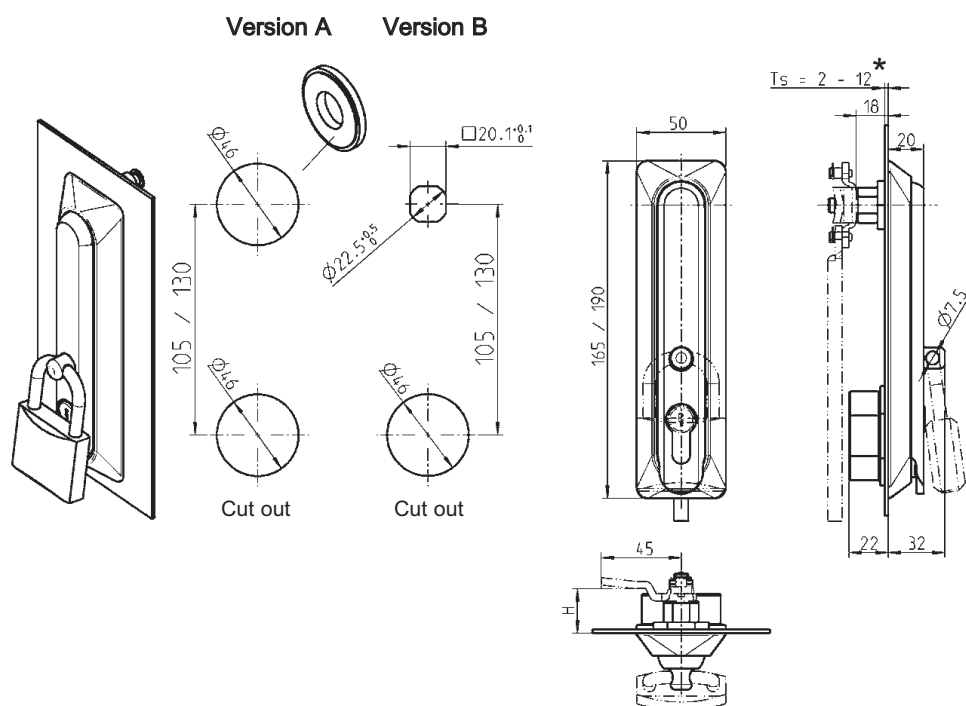
Further parts see page

– Cam 3YC-120
– Profile half cylinder 3XB-120

3A-120

(3G-130)

Swinghandle for padlock PROGRAM 1107



Attention:

With adapter the maximum door gauge (TS) will be 6 mm

Note:

If door gauge (Ts) > 4 mm standard round rods cannot be used!

Swinghandle polyamide GF black, shaft brass,
fixing material m.s. zinc pl., with seal

Swinghandle "long" (190) for profile half cylinder

40 (h = 20)

1107-U96-G

Swinghandle "short" (165), for profile half cylinder

40 (h = 20)

1107-U164-G

Adapter polyamide GF black required for cut out version A

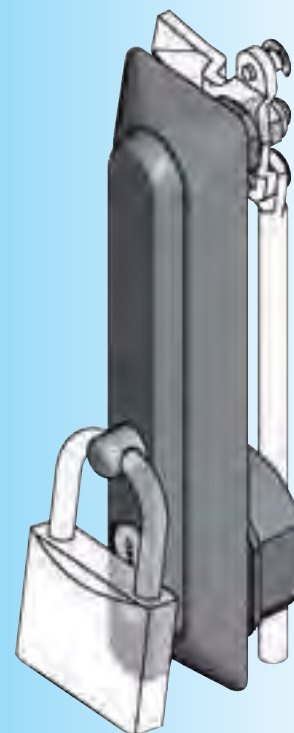
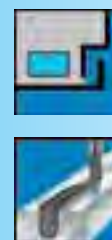
1107-53

Seal for adapter

1107-61-02VB

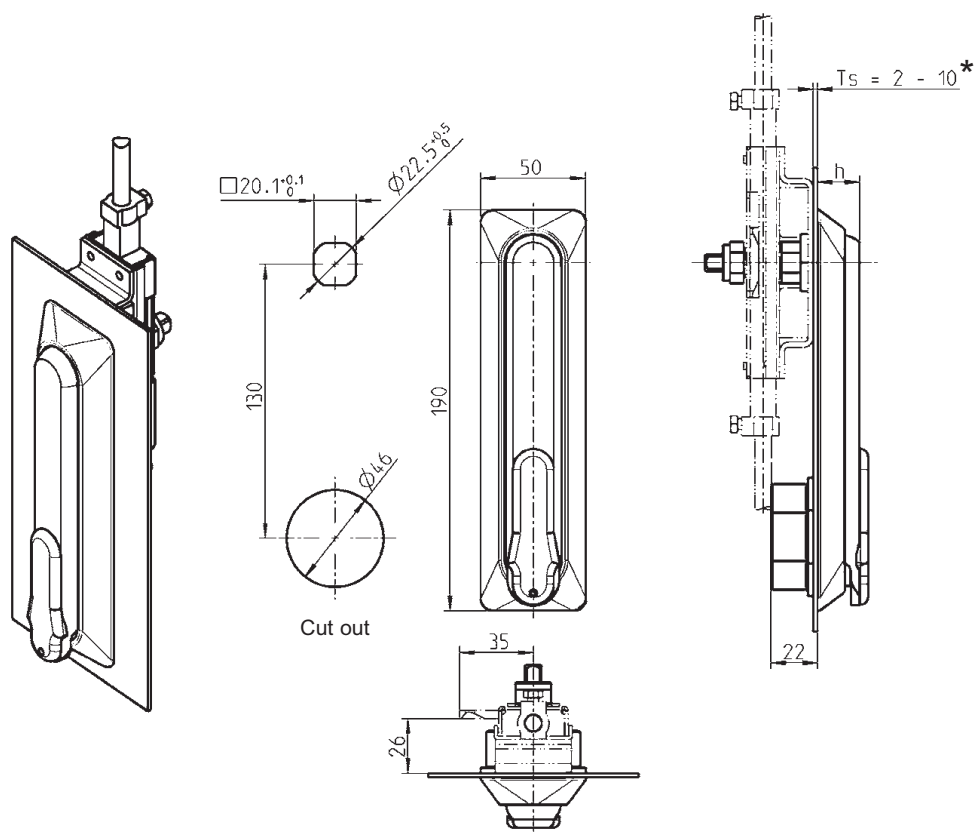
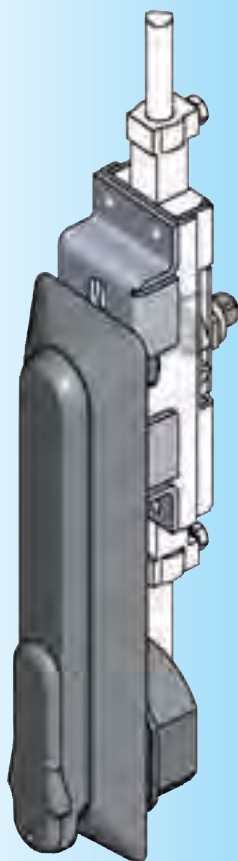
* Order screw set separately if Ts > 4 mm

1107-U170



Further parts see page

– Cam 3YC-120
– Profile half cylinder 3XB-120



Further parts see page

- Rod control 2B-130
- Rod control 2B-135
- Profile half cylinder 3XB-120

Swinghandle polyamide GF black, handle on choice, shaft brass, fixing material m.s. zinc pl., with seal

but with dust cap sealable
for profile half cylinder 40 (h = 20)

Handle polyamide GF black

1107-U14-G

Handle zinc die black p.c.

1107-U104-G

Support

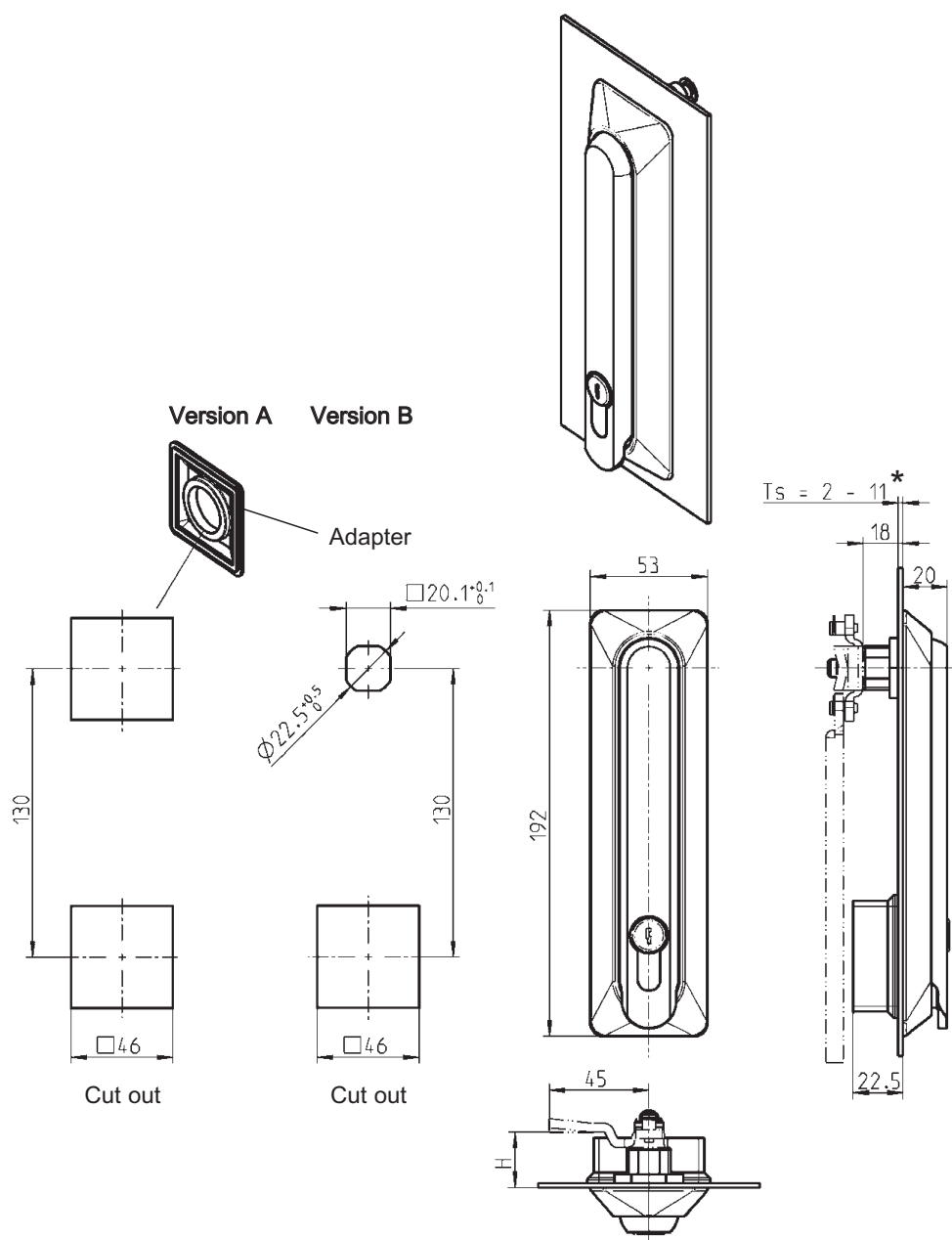
RH and LH version

1001-50

* Order screw set separately if $T_s > 4$ mm

1107-U170

Swinghandle PROGRAM 1107



Attention:

With use of an adapter the max. door gauge (Ts) 6 mm.

Note:

If door gauge (Ts) > 4 mm standard round rods cannot be used!

Swinghandle polyamide GF black, shaft brass,
fixing material m.s. zinc pl., with seal

for profile half cylinder 40, Ts = 2-4

1107-U21

Adapter polyamide GF black required for cut out version A

1107-53-01AA

Seal for adapter

1107-61-02VB

Other Versions available on request

- Swinghandle with
- Dust cap sealable
- Handle zinc die black p.c.
- Swinghandle for
- Padlock
- Profile half cylinder 45

* Ts = 4-11 on request

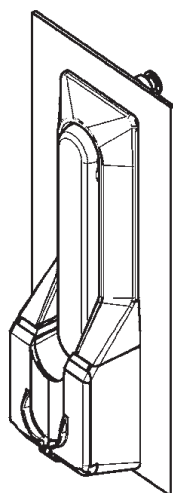
Further parts see page

- Cams 3YC-120
- Profile half cylinder 3XB-120

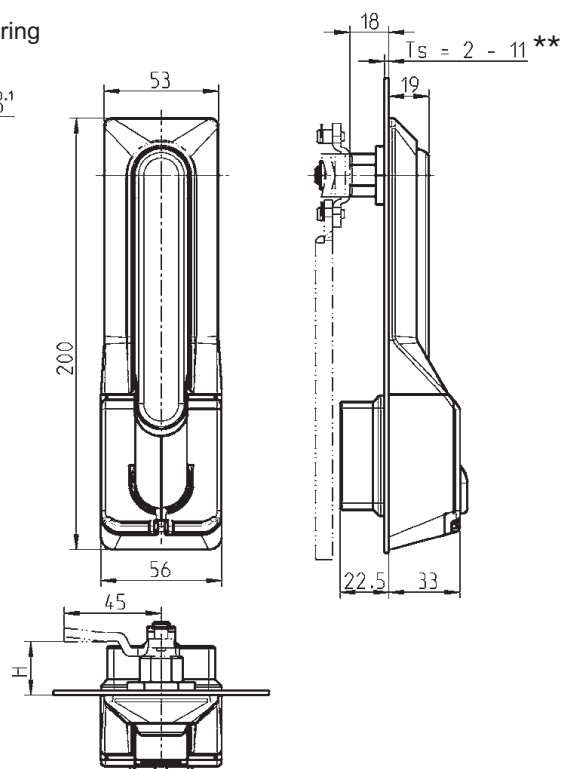
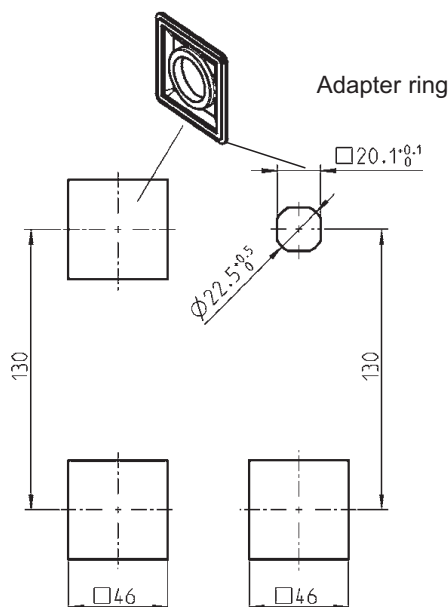
Double cylinder swinghandle PROGRAM 1107

Beschlagteile

Swinghandle for profile half cylinder 40 and 45.
For separate lead seal.



Version A Version B



Attention:

With use of an adapter the
max. door gauge (Ts) is 6 mm.

Note:

If door gauge (Ts) > 4 mm standard round rods cannot be used!

Note:

Separate authorisation of access
required, as the handle is released
by one profile half cylinder, only.

* not included

** Ts = 4-11 on request

Further parts see page

– Cam 3YC-120
– Profile half cylinder 3XB-220
(only use 1089-U1; -U2)

Swinghandle polyamide GF black, dust cap cover and assembling-set
zinc die black powder coated, shaft brass,
fixing material m.s. zinc pl., with seal

for 40 and 45 profile half cylinder, Ts = 2-4

1107-U22

Adapter ring polyamide GF black, for cut out version A required

1107-53-01AA

Seal for adapter

1107-61-02VB

Swinghandle and escutcheon Program 1125

Info

1 Quarter turns

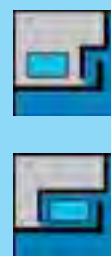
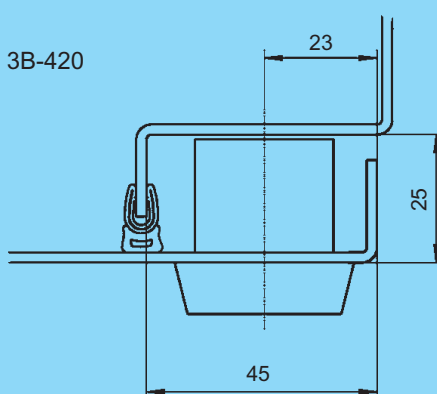
2 Rod controls

3 Locking
systems



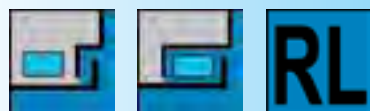
- 1 Escutcheon with insert
- 2 Escutcheon with handle
- 3 Swinghandle
- 4 Swinghandle (double cylinder)
- 5 Rod control
- 6 Bearing bush
- 7 Cam
- 8 Rod (inside the gasketing)
- 9 Rod (outside the gasketing)
- 10 Earthing device
- 11 Profile half cylinder
- 12 Door
- 13 Cabinet/frame

3B-120
3B-180
3B-220, 3B-420
3B-320



3B-100

Escutcheon with insert PROGRAM 1125



* Logo recess: 27 x 8 x 0,5
Multicolour print possible

** in Polyamide on request

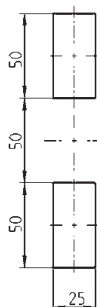
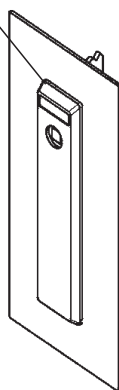
Further parts see page

– Key 12B-120
– Rod control for long version 3YA-120

Short version 3YA-140
– Bearing bush 3YA-160 3YB-120

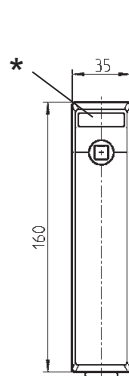
Escutcheon long

PUR-foamed seal



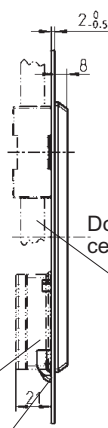
Door centre

Cut out



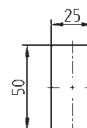
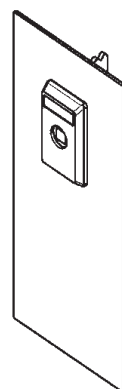
Cap

Hook

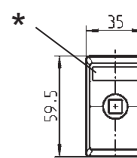


Rod control

Escutcheon short



Cut out



Door centre

Escutcheon long polyamide GF black,
screw m.s. zinc pl., with seal

Escutcheon short polyamide GF black, screws
m.s. zinc pl., with seal IP 65

	hook IP 40	snap on cap IP 40	screw on cap IP 65	
for square, triangular Daimler-Benz, slot	1121-U19-6	1121-U19-N6	1121-U133-6	1121-U22-6
for double bit	1121-U20-6	1121-U20-N6	1121-U134-6	1121-U23-6
for railroad, square 9	1121-U19A-6	–	1121-U135-6	1121-U22A-6
for FIAT	1121-U63-6	1121-U63-N6	1121-U132-6	1121-U62-6

Insert zinc die chrome pl., fixing material m.s. zinc pl.

Square 6	1121-U11	Double bit 5**	1121-U17
Square 7	1121-U12	Square female 8	1121-U167
Square 8	1121-U13	Daimler Benz	1121-U18
Triangular 6,5 CNOMO	1121-U169	Slot 2 x 4	1121-U123
Triangular 7	1121-U14	FIAT	1121-U24
Triangular 8	1121-U15	Railroad square 9	1121-U72
Double bit 3**	1121-U16		

Accessories



Transport safety device polyamide GF
black for double bit insert

1121-32

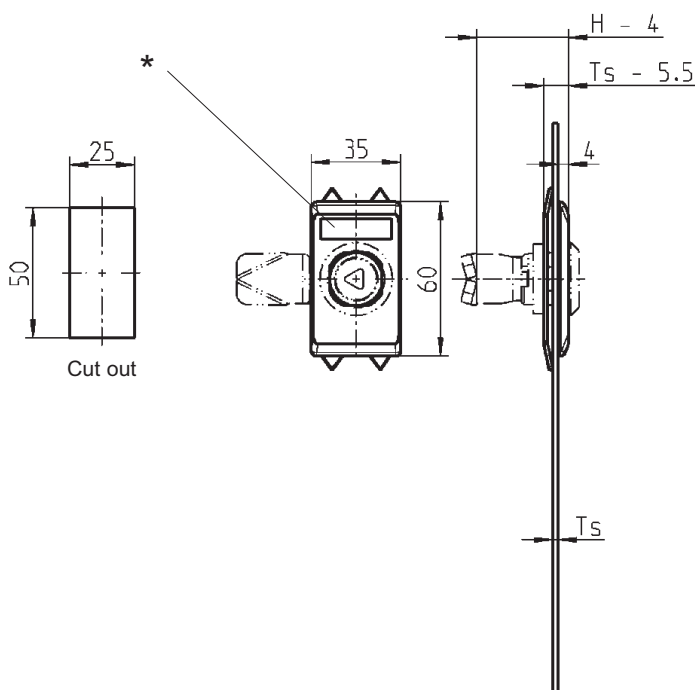
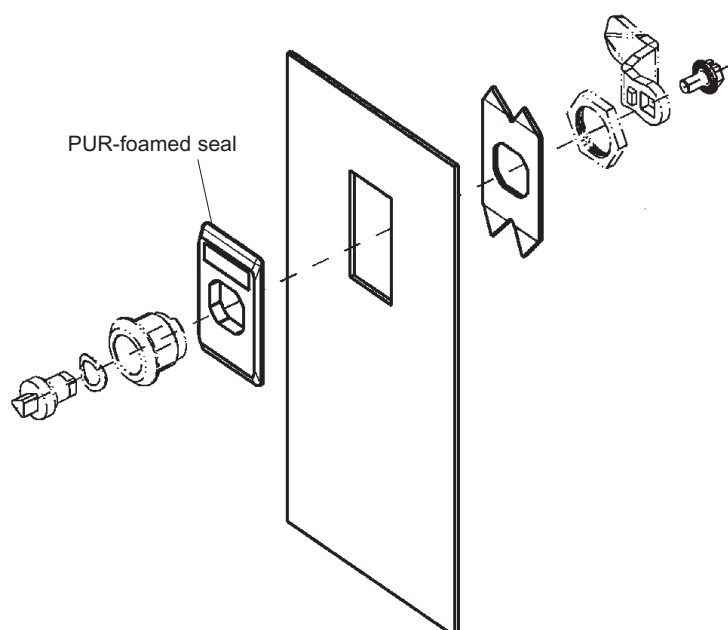
3B-120

(3A-140)

Escutcheon for Quarter turn, program 1000

PROGRAM 1125

Beschlagteile



* Logo recess: 27 x 8 x 0,5
Multicolour print possible

Attention:
H-dimension of cam is 4 mm less,
TS is 5,5 mm less

Note:
IP 65 will be achieved by quarter turn with IP 65 protection

Further parts see page
– Quarter turn

1B-120
1B-140
1B-220
up to 1B-320
1B-360
up to 1B-620
1B-680
1B-860

Escutcheon polyamide black, earthing plate m.s. zinc plated, with seal

1121-U168

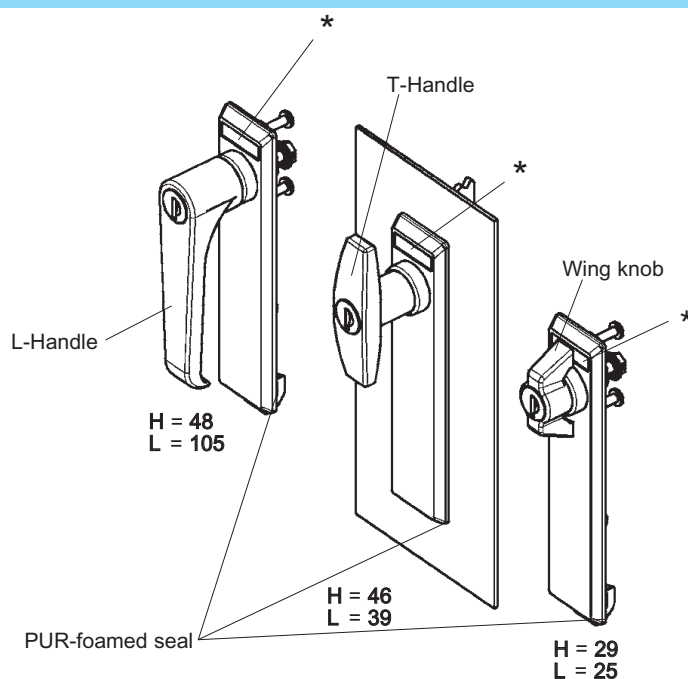
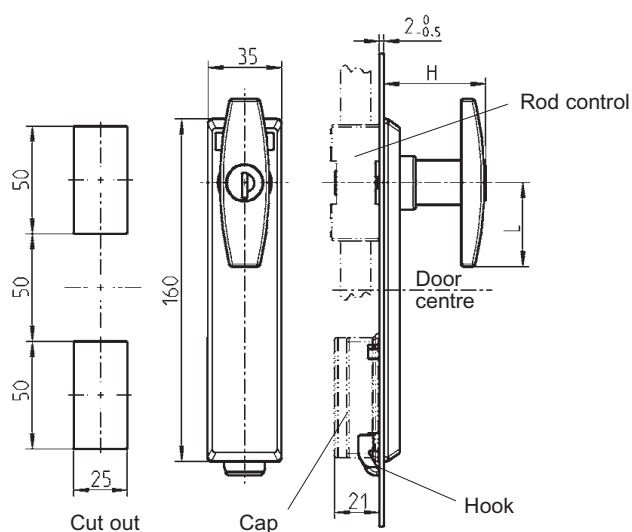
3B-140

(3A-145)

Escutcheon with handle

PROGRAM 1125

Escutcheon long

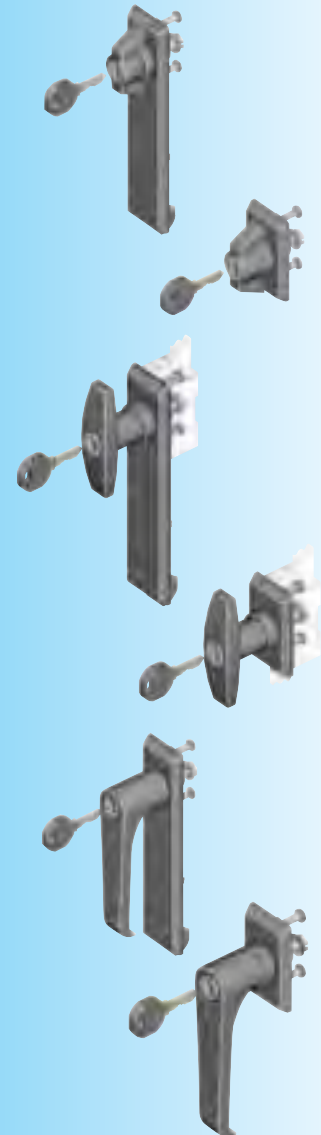
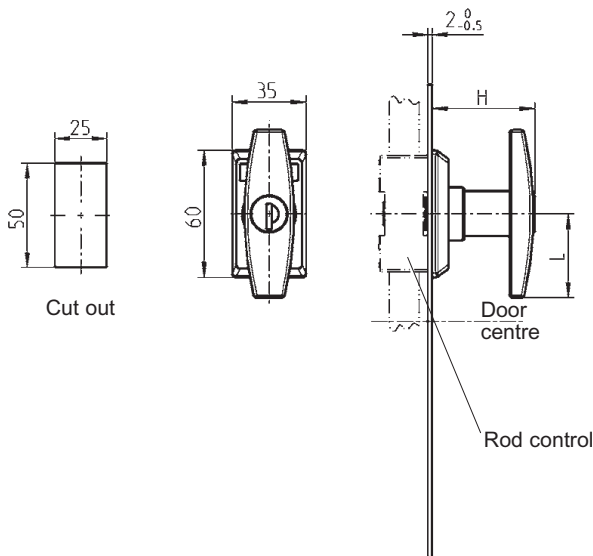


Each cylinder with one key silver steel with polyamide GF grip black.

Escutcheon long polyamide GF black, fixing material m.s. zinc pl. or stainless steel, with seal

	hook IP 40	snap on cap IP 40	screw on cap IP 65
Wingknob zinc die black powder coated			
non locking	1123-U1-6	1123-U1-N6	1123-U25-6
keyed EK 333	1123-U2-6	1123-U2-N6	1123-U26-6
keyed different	1123-U3-6	1123-U3-N6	1123-U27-6
Wing knob AISI 304			
non locking	1123-U41-6	1123-U41-N6	1123-U42-6
T-Handle zinc die black powder coated			
non locking	1123-U7-6	1123-U7-N6	1123-U28-6
keyed EK 333	1123-U8-6	1123-U8-N6	1123-U29-6
keyed different	1123-U9-6	1123-U9-N6	1123-U30-6
prepared for KABA 1036	1123-U21-6	—	—
T-Handle AISI 304			
non locking	1123-U38-6	1123-U38-N6	1123-U39-6
L-Handle zinc die black powder coated			
non locking	1123-U13-6	1123-U13-N6	1123-U31-6
keyed EK 333	1123-U14-6	1123-U14-N6	1123-U32-6
keyed different	1123-U15-6	1123-U15-N6	1123-U33-6
prepared for KABA 1036	1123-U19-6	—	—
L-Handle AISI 304			
non locking	1123-U34-6	1123-U34-N6	1123-U35-6

Escutcheon short



Escutcheon short polyamide Gf black, fixing material m.s. zinc pl. or stainless steel, with seal IP 65

Wing knob zinc die black powder coated

non locking	1123-U4-6
keyed EK 333	1123-U5-6
keyed different	1123-U6-6

Wing knob AISI 304

non locking	1123-U40-6
-------------	------------

T-Handle zinc die black powder coated

non locking	1123-U10-6
keyed EK 333	1123-U11-6
keyed different	1123-U12-6
prepared for KABA 1036	1123-U22-6

T-Handle AISI 304

non locking	1123-U37-6
-------------	------------

L-Handle zinc die black powder coated

non locking	1123-U16-6
keyed EK 333	1123-U17-6
keyed different	1123-U18-6
prepared for KABA 1036	1123-U20-6

L-Handle AISI 304

non locking	1123-U36-6
-------------	------------

* Logo recess: 27 x 8 x 0,5
Multicolour print possible

Further parts see page

– Key	12B-120
– Spare key	12B-140
– Rod control for long version	3YA-120
Short version	3YA-140
– Bearing bush	3YA-160
– Dust cap for T-Handle	3YB-120
	1C-340

Swinghandle

PROGRAM 1125

Example:

³⁾ (21/26 mm)

- Dimension for profile half cylinder 40 mm
- Dimension for profile half cylinder 45 mm

Swinghandle polyamide black for profile half cylinder,
shaft zinc die zinc pl., fixing material m.s. zinc pl.,with seal

	snap on cap IP 40		screw on cap IP 65		hook IP 40	
	with	non	with	non	with	non
	dust cap		dust cap		dust cap	
for cylinder 40 mm ³⁾ (21)	1125-U191-NA	1125-U190-NA	1125-U191-A	1125-U190-A	1125-U186-A	1125-U185-A
for cylinder 45 mm ³⁾ (26)	1125-U196-NA	1125-U195-NA	1125-U196-A	1125-U195-A	1125-U194-A	1125-U193-A
insert for padlock	(only swinghandle 1125-U190-A)			1125-73	–	–
with cylinder (Berlin version)	–	–	–	–	1125-U276-A	1125-U275-A
for ASSA cylinder	–	–	1125-U198-A	–	–	–

Swinghandle for profile half cylinder AISI 316, cap polyamide black, with seal

for cylinder 40 mm ³⁾ (21)	–	–	1125-U191-APH	–	–	–
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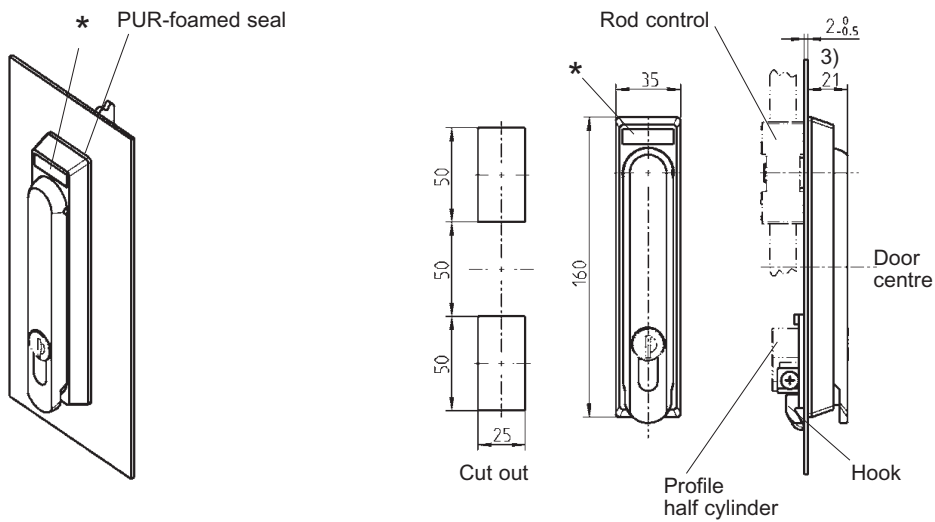
Swinghandle polyamide GF black with insert double bit,
zinc die chrome pl., shaft zinc die zinc pl., fixing material m.s. zinc pl., with seal

	snap on cap IP 40	screw on cap IP 65
Double bit 3 (Key 1004-05) ^{1) 2)}	1125-U236-NA	1125-U236-A
Double bit 5 (Key 1004-06) ^{1) 2)}	1125-U239-NA	1125-U239-A

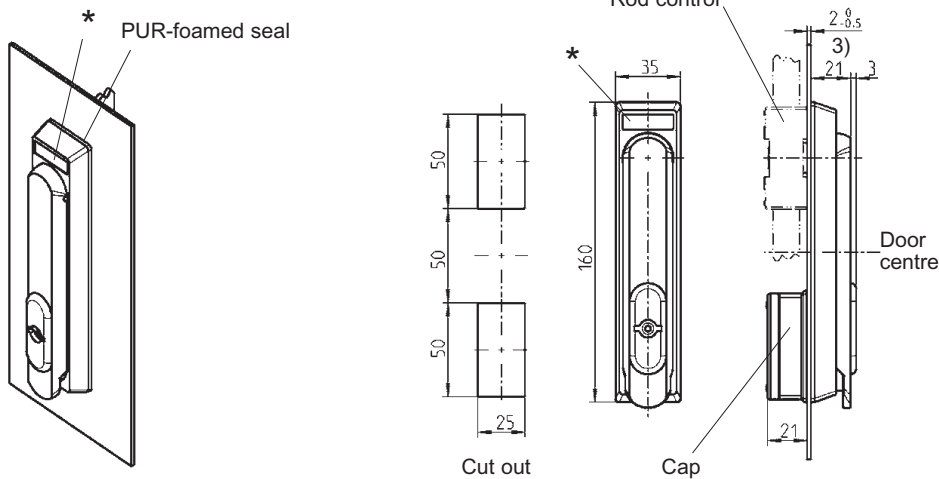
Swinghandle polyamide GF black with round cylinder including stainless steel cap and shutter or insert,
zinc die chrome pl., shaft zinc die zinc pl., fixing material m.s. zinc pl., with seal

	snap on cap IP 40		screw on cap IP 65		hook IP 40
	with	non	with	non	non
	dust cap		dust cap		dust cap
round cylinder keyed EK 333	1125-U206-NA	1125-U202-NA	1125-U206-A	1125-U202-A	1125-U268-A
round cylinder keyed different	1125-U207-NA	1125-U203-NA	1125-U207-A	1125-U203-A	1125-U269-A
Square 6 ¹⁾	1125-U242-NA	1125-U210-NA	1125-U242-A	1125-U210-A	–
Square 7 ^{1) 2)}	1125-U243-NA	1125-U211-NA	1125-U243-A	1125-U211-A	–
Square 8 ^{1) 2)}	1125-U244-NA	1125-U212-NA	1125-U244-A	1125-U212-A	–
Square 8 slotted	1125-U245-NA	1125-U213-NA	1125-U245-A	1125-U213-A	–
Triangular 6,5 CNOMO	1125-U246-NA	1125-U214-NA	1125-U246-A	1125-U214-A	–
Triangular 7 ¹⁾	1125-U247-NA	1125-U215-NA	1125-U247-A	1125-U215-A	–
Triangular 8 ^{1) 2)}	1125-U248-NA	1125-U216-NA	1125-U248-A	1125-U216-A	–
Triangular 9	1125-U249-NA	1125-U217-NA	1125-U249-A	1125-U217-A	–
Triangular 10	1125-U250-NA	1125-U218-NA	1125-U250-A	1125-U218-A	–
Hexagon female 10	1125-U251-NA	1125-U219-NA	1125-U251-A	1125-U219-A	–
Female Square 6	1125-U252-NA	1125-U220-NA	1125-U252-A	1125-U220-A	–
Female Square 8	1125-U253-NA	1125-U221-NA	1125-U253-A	1125-U221-A	–
Daimler Benz	1125-U254-NA	1125-U222-NA	1125-U254-A	1125-U222-A	–
Slot 1,2 x 3	1125-U255-NA	1125-U223-NA	1125-U255-A	1125-U223-A	–
Slot 2 x 4 ^{1) 2)}	1125-U256-NA	1125-U224-NA	1125-U256-A	1125-U224-A	–
Crown type	1125-U257-NA	1125-U225-NA	1125-U257-A	1125-U225-A	–
Eastern Europe Ø 13 mm	1125-U282-NA	1125-U283-NA	1125-U282-A	1125-U283-A	–

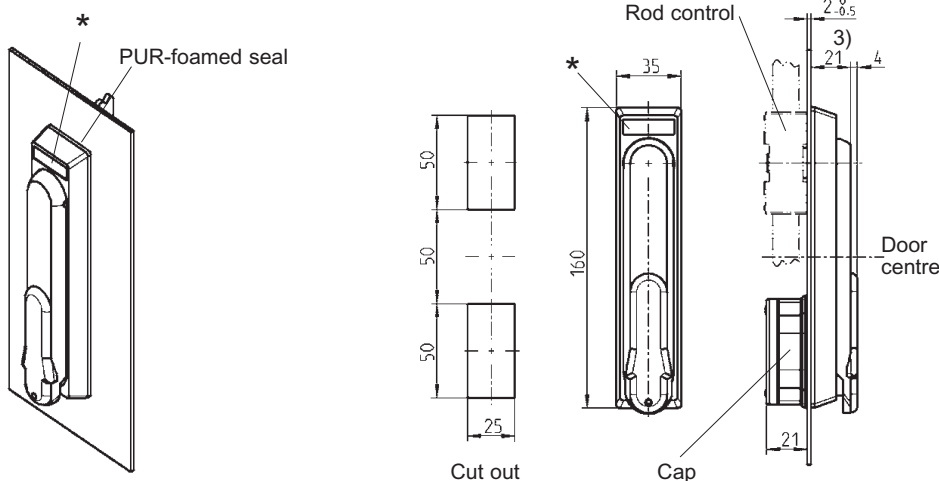
Swinghandle for profile half cylinder



Swinghandle with double bit



Swinghandle with round cylinder or insert



* Logo recess: 27 x 8 x 0,5
Multicolour print possible

Further parts see page

– Key	11B-120
– Rod control	3YA-120
	3YA-140
– Bearing bush	3YB-120
– Profile half cylinder	3XB-120

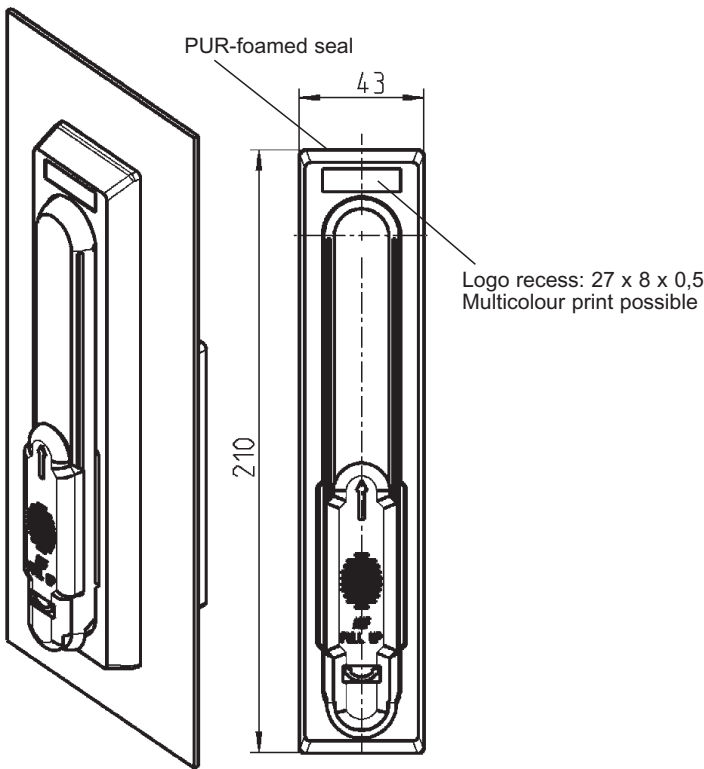
On request insert in

- ¹⁾ Zinc die black p.c.
- ²⁾ polyamide black
- Cap without foamed seal for small bending area on request
- EMC-version

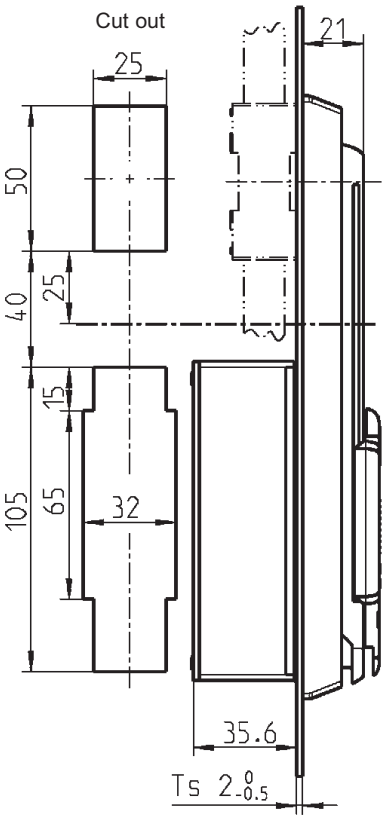
Swinghandle

PROGRAM 1125

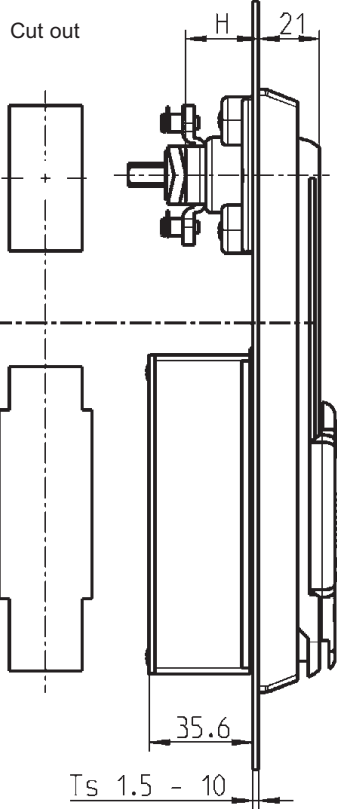
Double and single profile half cylinder swinghandle



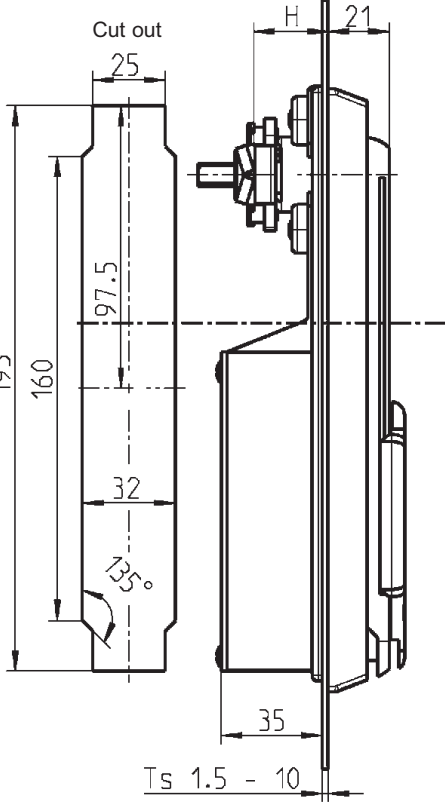
Version A

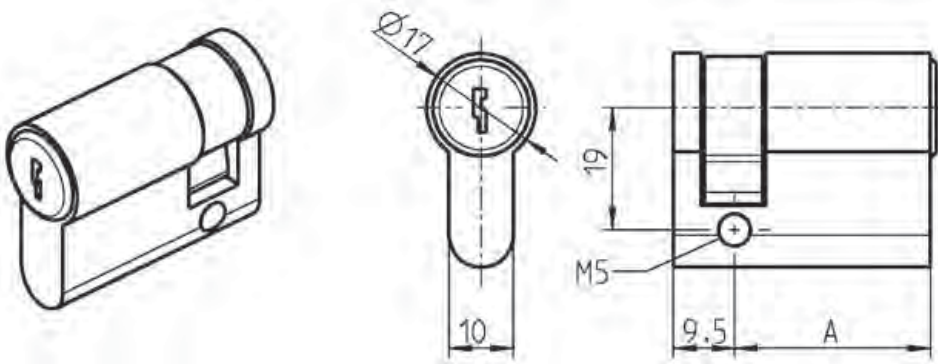


Version B



Version C





Double and single profile half cylinder swinghandle suitable for profile half cylinder with A = 30 and 35.



Earthing with version A possible!



Swinghandle profile half cylinder, polyamide GF black, shaft brass, interlock zinc die, spring zinc pl. fixing material m.s. zinc pl. or stainless steel, with seal

Version A for rod control

Double cylinder-swinghandle with one-key operation Key always removable	1125-U51-A
Single cylinder-swinghandle Key always removable	1125-U55-A
Double cylinder-swinghandle with one-key operation Key always removable	1125-U53-A

Version B with bearing bush

Double cylinder-swinghandle with one-key operation Key always removable	1125-U57-A
Single cylinder-swinghandle Key always removable	1125-U56-A
Double cylinder-swinghandle with one-key operation Key always removable	1125-U56-A
Double cylinder-swinghandle with 2-key operation Key always removable	1125-U289

Version C with bearing bush

Double cylinder-swinghandle with one-key operation Key always removable	1125-U60-A
Single cylinder-swinghandle Key always removable	1125-U61-A
Double cylinder-swinghandle with one-key operation Key always removable	1125-U59-A

Single key operation

Handle can be opened when one cylinder is unlocked. Removal of key on choice

2-key operation

The handle can only be opened when both cylinders are unlocked. Removal of key on choice

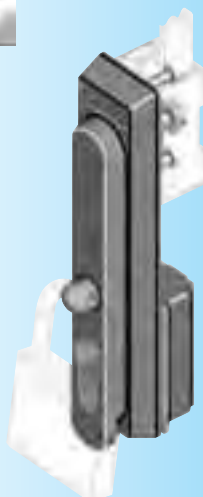
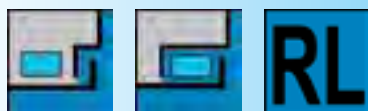
The 2-key operation is a RH version.
For profile half cylinder A = 30.

Further parts see page

– Rod control for Version A	3YA-220 3YA-240
– Cam for Version B	3YC-120
– Cam for Version C (H = 25 + Ts = 2)	3YC-140
– Profile half cylinder	3XB-220

Swinghandle PROGRAM 1125

Beschlagteile



Further parts see page

- Bearing bush 3YB-120
- Rod control 3YA-120
- 3YA-140
- Profile half cylinder 3XB-120

* Logo recess: 27 x 8 x 0,5
Multicolour print possible



Note:
For CNOMO version swinghandle
is only applicable outside
the gasketing!

Further parts see page

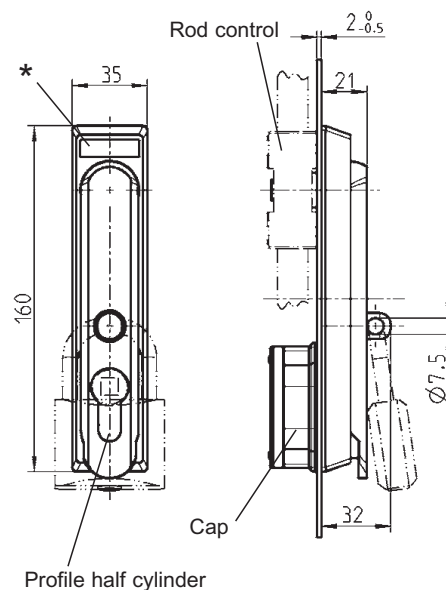
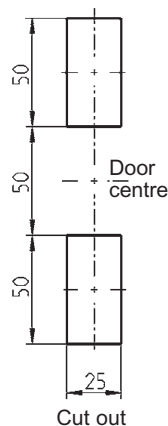
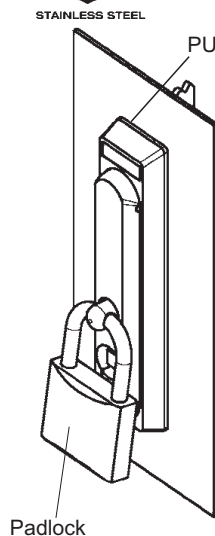
- Rod control 3YA-120
- Profile half cylinder 3XB-120
- (Push button profile half
cylinder not applicable)

3B-420

(3J-260)



Swinghandle for padlock



Swinghandle polyamide GF black,
fixing material m.s. zinc pl, with seal

1125-U184-A

Swinghandle profile half cylinder AISI 316, cap polyamide black, with seal

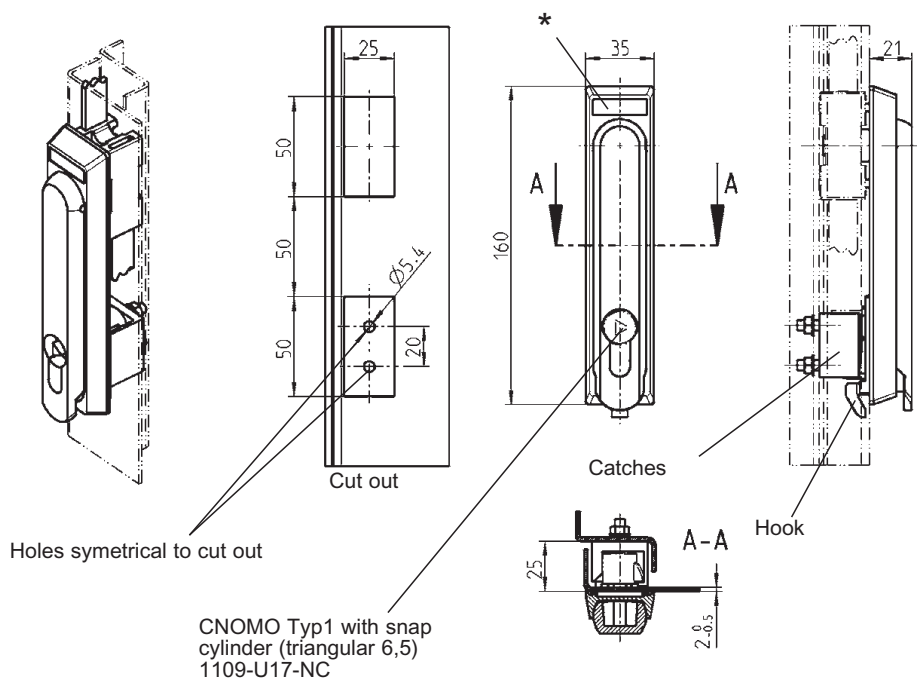
1125-U184-APH

Ford-Version with

profile half cylinder square (7 mm)

1109-U5-N

Swinghandle for CNOMO



Handle is spring loaded and can only be locked if the door is completely closed
(Visual check)

Swinghandle profile half cylinder, polyamide GF black, catch zinc die zinc plated,
fixing material m.s. zinc pl.

without dust cap

1125-U200-A

with dust cap

1125-U201-A

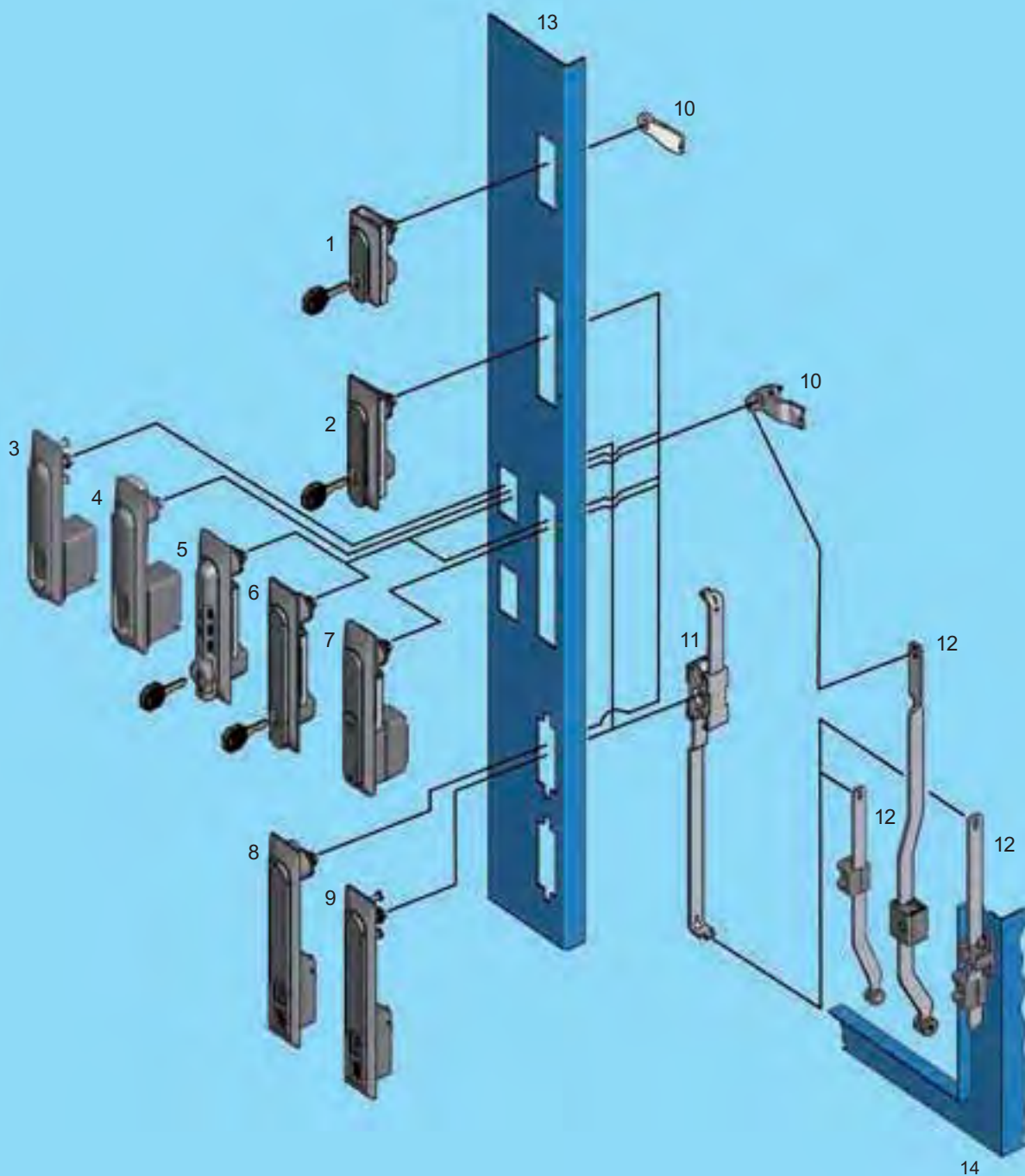
Swinghandle 1150

Info

1 Quarter turns

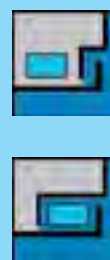
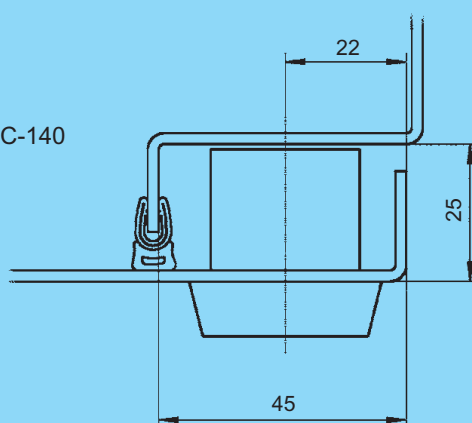
2 Rod controls

3 Locking systems



- 1 Swinghandle 1152
- 2 Swinghandle 1150
- 3 Swinghandle 1153 for rod control
- 4 Swinghandle 1153 for cam
- 5 Swinghandle 1155
- 6 Swinghandle 1150
- 7 Swinghandle 1154
- 8 Swinghandle 1151 for cam
- 9 Swinghandle 1151 for rod control
- 10 Cam
- 11 Rod control
- 12 Rods
- 13 Door
- 14 Cabinet/frame

- 3C-520
- 3C-120
- 3C-320
- 3C-320
- 3C-620
- 3C-120, 3C-140
- 3C-220
- 3C-420
- 3C-440

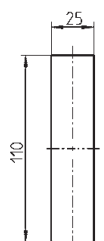
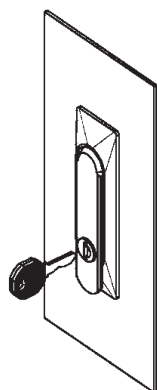


3C-100

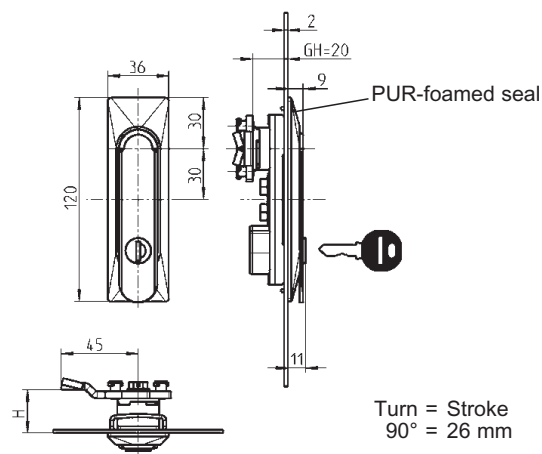
Swinghandle 1150

PROGRAM 1150

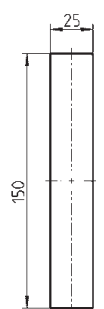
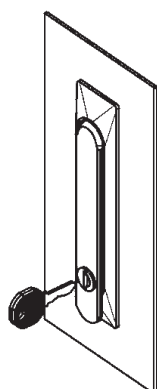
Version A (small)



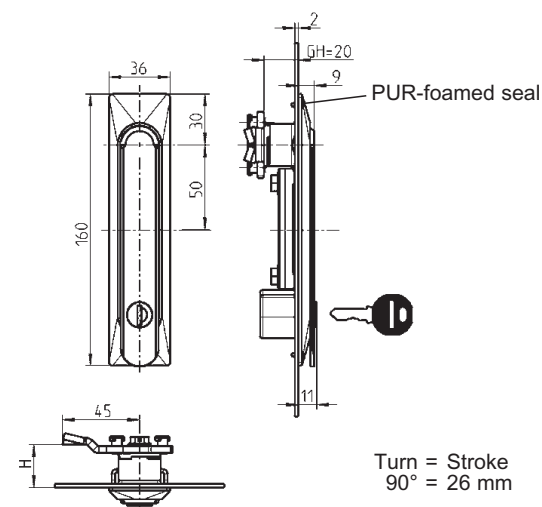
Cut out



Version B (normal)



Cut out

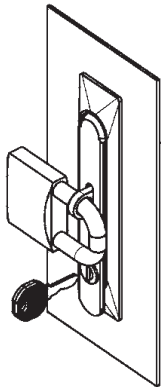


* EMC-Version 1150-U2-E

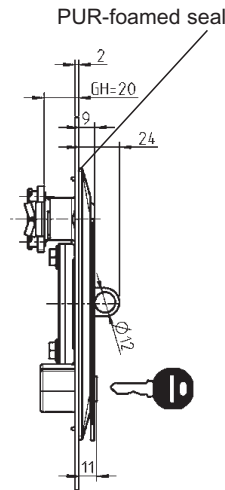
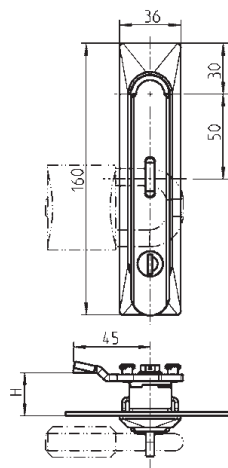
	Swinghandle zinc die black powder coated fixing-material m.s. zinc plated shaft zinc die zinc plated, with seal Swinghandle is earthed		Swinghandle PA black, fixing material m.s. zinc plated, shaft zinc die zinc plated, with seal		Handle zinc plated black powder coated and escutcheon PA black, fixing material m.s. zinc plated, shaft zinc die zinc plated, with seal	
Version	A	B	A	B	A	B
Round cylinder with stainless steel cap and shutter, keyed EK 333	1150-U1	1150-U2*	1150-U1-02	1150-U2-02	1150-U1-03	1150-U2-03
Round cylinder with stainless steel cap and shutter, keyed different	1150-U3	1150-U4	1150-U3-02	1150-U4-02	1150-U3-03	1150-U4-03
Insert zinc die chrome pl.						
Square 6	1150-U20	1150-U9	1150-U20-02	1150-U9-02	1150-U20-03	1150-U9-03
Square 7	1150-U21	1150-U10	1150-U21-02	1150-U10-02	1150-U21-03	1150-U10-03
Square 8	1150-U22	1150-U11	1150-U22-02	1150-U11-02	1150-U22-03	1150-U11-03
Triangular 6,5 CNOMO	1150-U32	1150-U31	1150-U32-02	1150-U31-02	1150-U32-03	1150-U31-03
Triangular 7	1150-U23	1150-U12	1150-U23-02	1150-U12-02	1150-U23-03	1150-U12-03
Triangular 8	1150-U24	1150-U13	1150-U24-02	1150-U13-02	1150-U24-03	1150-U13-03
Double bit 3	1150-U25	1150-U14	1150-U25-02	1150-U14-02	1150-U25-03	1150-U14-03
Double bit 5	1150-U26	1150-U15	1150-U26-02	1150-U15-02	1150-U26-03	1150-U15-03
Daimler Benz	1150-U27	1150-U16	1150-U27-02	1150-U16-02	1150-U27-03	1150-U16-03
Slot 2x4	1150-U28	1150-U17	1150-U28-02	1150-U17-02	1150-U28-03	1150-U17-03
Hexagon female 8 with pin	1150-U29	1150-U18	1150-U29-02	1150-U18-02	1150-U29-03	1150-U18-03
Hexagon 11 male	1150-U30	1150-U19	1150-U30-02	1150-U19-02	1150-U30-03	1150-U19-03



Version B
for padlock



Cut out



Swinghandle and escutcheon zinc die black powder coated, fixing material m.s.
zinc plated, shaft zinc die zinc plated

Version B for padlock

Round cylinder with stainless steel cap and shutter, keyed EK 333	1150-U2-01
Round cylinder with stainless steel cap and shutter, keyed different	1150-U4-01

Insert zinc die chrome pl.

Square 6	1150-U9-01
Square 7	1150-U10-01
Square 8	1150-U11-01
Triangular 6,5 CNOMO	1150-U31-01
Triangular 7	1150-U12-01
Triangular 8	1150-U13-01
Double bit 3	1150-U14-01
Double bit 5	1150-U15-01
Daimler Benz	1150-U16-01
Slot 2x4	1150-U17-01
Hexagon 8 female with pin	1150-U18-01
Hexagon 11 male	1150-U19-01

Further parts see page

– Key	12B-120
– Spare key	12B-140
– Cam (GH = 20)	3YC-140

On request:
– handle blank
(no locking system)



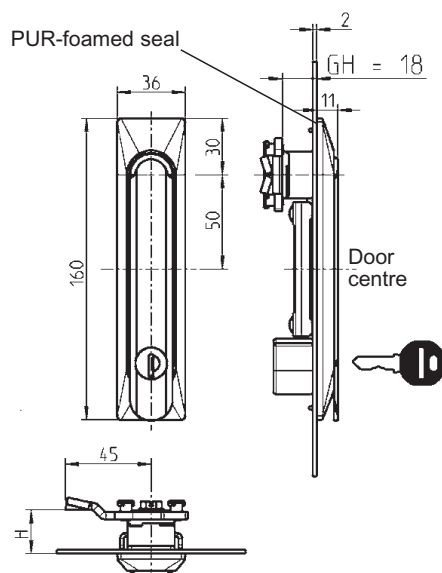
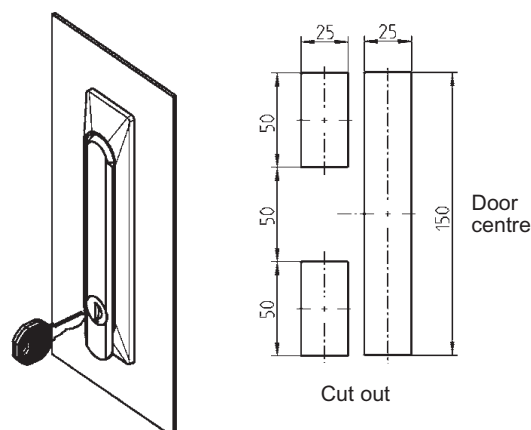
* can be assembled in cut out of 1125/1225

Further parts see page

- Key 12B-120
- Spare key 12B-140
- Cam (GH = 18) 3YC-120

On request:

- Key retained in the open position of the cylinder
- Another insert



Swinghandle zinc die black powder coated, escutcheon polyamide black, fixing material m.s. zinc plated, shaft zinc die zinc plated, round cylinder with stainless steel cap and shutter or insert zinc die chrome pl., with seal, with one key silver steel with black polyamide GF grip.

keyed EK 333	1150-U33-03
keyed different	1150-U34-03

Square 6	1150-U36-03
Square 7	1150-U37-03
Square 8	1150-U38-03
Triangular 6,5 CNOMO	1150-U39-03
Triangular 7	1150-U40-03
Triangular 8	1150-U41-03
Double bit 3	1150-U42-03
Double bit 5	1150-U43-03
Daimler Benz	1150-U44-03
Slot 2x4	1150-U35-03
Hexagon female 8 with pin	1150-U45-03
Hexagon 11 male	1150-U46-03

Swinghandle 1154

PROGRAM 1150

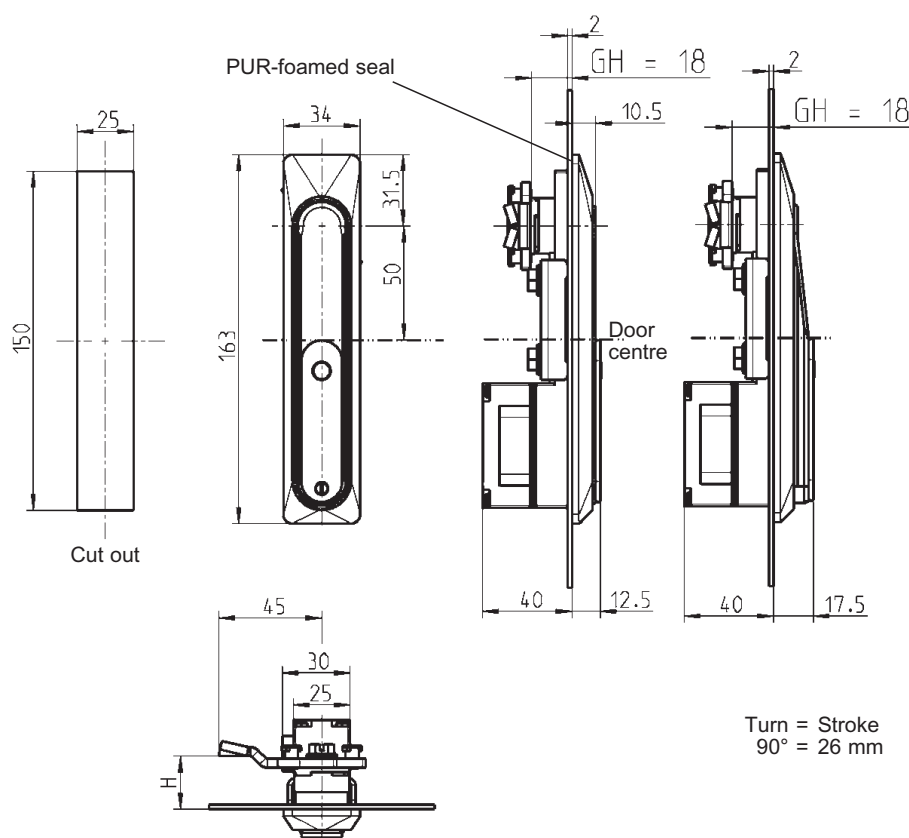
Vandalism resistant



Beschlagteile



Profile half cylinder is recessed by 3 mm



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

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

for profile half cylinder 40

1154-U1

for profile half cylinder 45

1154-U3

Swinghandle AISI 304, cap polyamide black, fixing material stainless steel, with seal

for profile half cylinder 40

1154-U2

Further parts see page

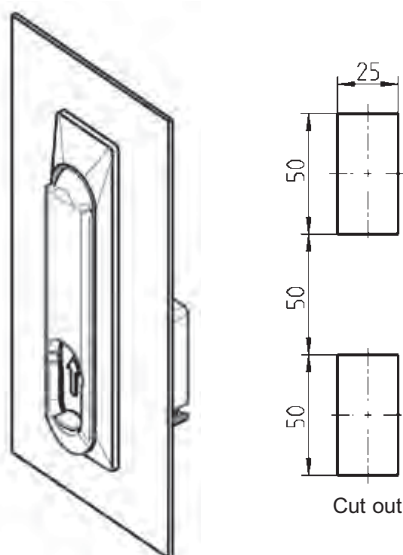
– Cam (GH = 18) 3YC-120
– Profile half cylinder 3XB-120

3C-220

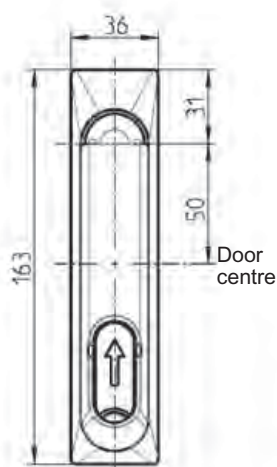
(3F-128)



suitable for profile half cylinder (length A = 30)



Cut out

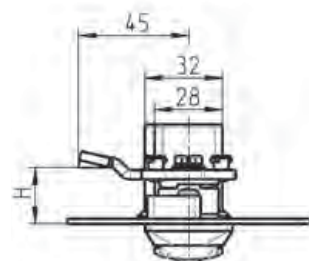


PUR-foamed seal

GH = 18



Version A



Attention: Housing length GH = 18 mm

PUR-foamed seal



Earthing with version B

* can be assembled in cut out of 1125/1225

Further parts see page for version A

– Cam (GH = 18) 3YC-120

for version B

– Rod control only inside of the seal 3YA-120
3YA-140

for version A and B

– Profile half cylinder 3XB-120

Swinghandle zinc die black powder coated, fixing material m.s. zinc plated, shaft zinc die zinc plated, with seal

Version A for cam

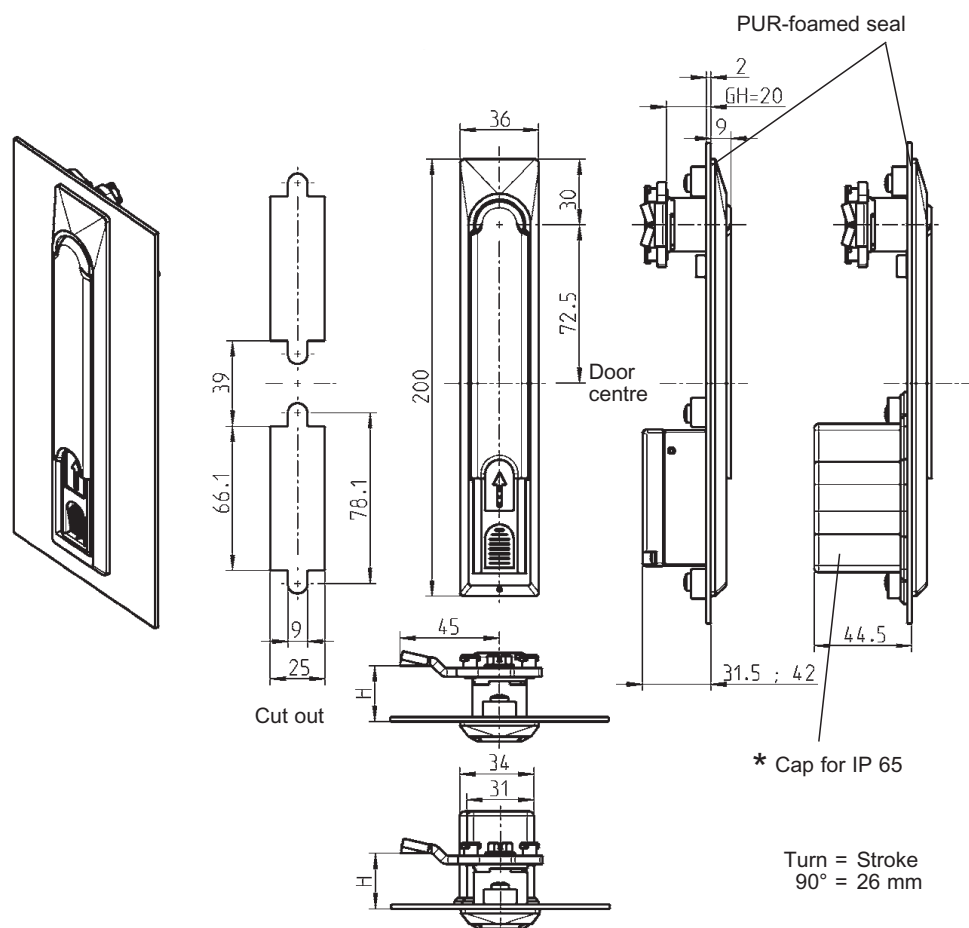
1153-U1

Rod control and earthing with version B

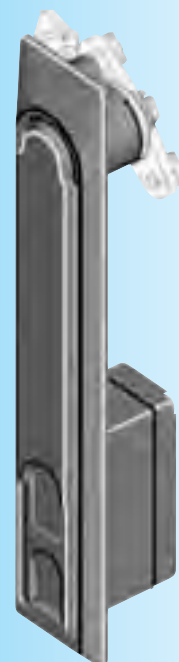
1153-U2

Swinghandle 1151

PROGRAM 1150



* Dimension:
38,5 (wide) x 97 (length), cap for profile half cylinder
35 (wide) x 97 (length), cap for insert and
round cylinder

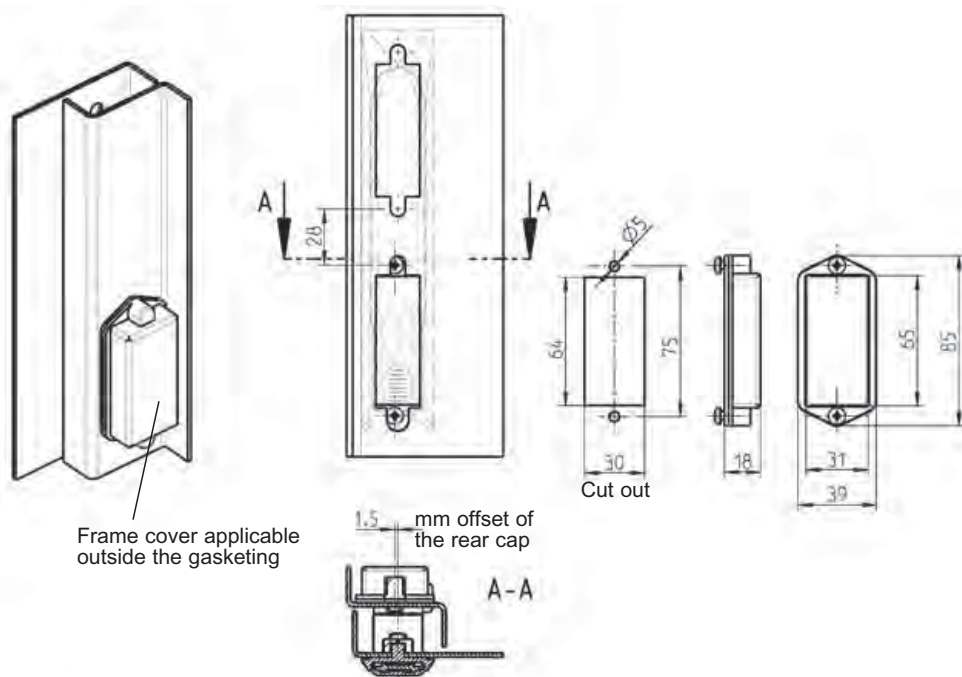
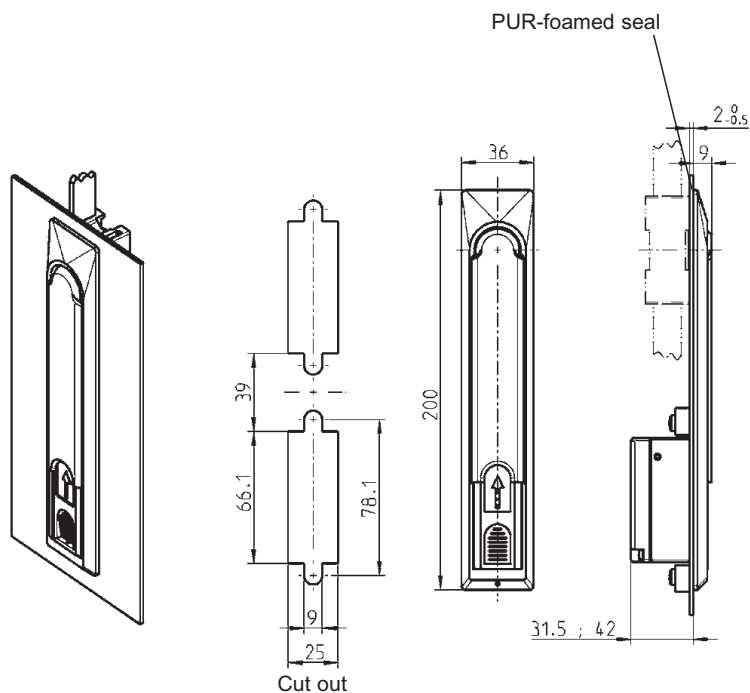


Swinghandle zinc die black powder coated, fixing material m.s. zinc plated,
shaft zinc die zinc plated, with seal

IP-Rating: IP 54	1151-U1
IP 65 with:	
cap for profile half cylinder	1151-05
cap for insert and round cylinder	1151-05-01

Further parts see page

– Locking set	3XA-120
	3XA-140
– Locking set ELM	chapter 11
– Cam (GH = 20)	3YC-140



Further parts see page

- Locking set 3XA-120
- Locking set 3XA-140
- Locking set ELM Kapitel 11
- Rod control 3YA-420

Swinghandle zinc die black powder coated, fixing material m.s. zinc plated, shaft zinc die zinc plated, with seal

1151-U3

Frame cover polyamide black, fixing material m.s. zinc plated for LH and RH application, with seal

2100-U31

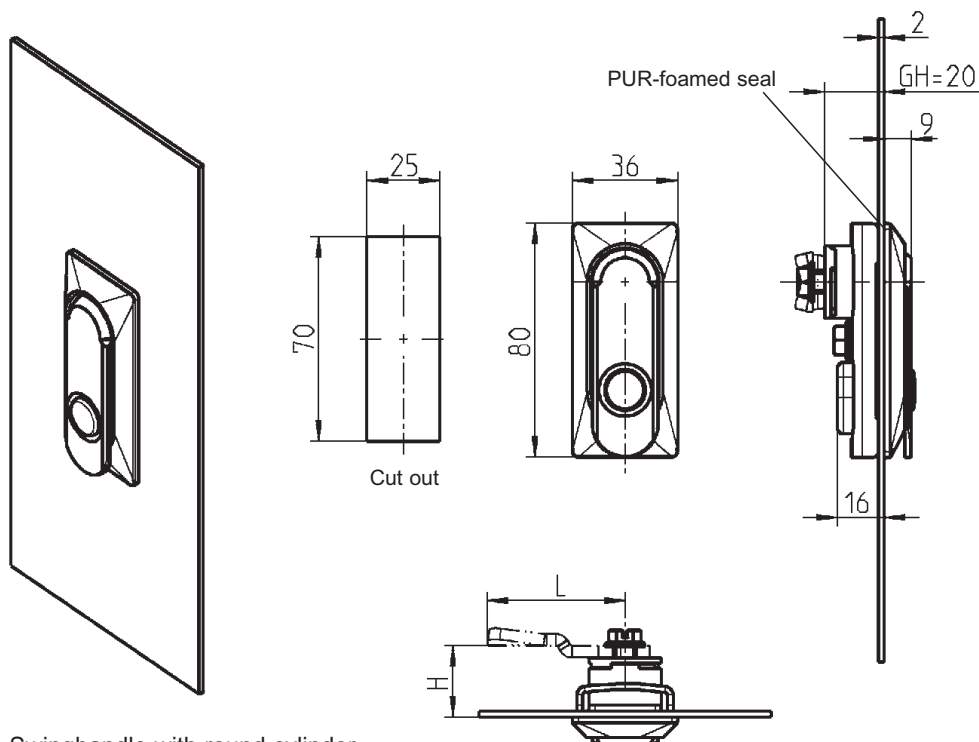
3C-440

(3F-135)

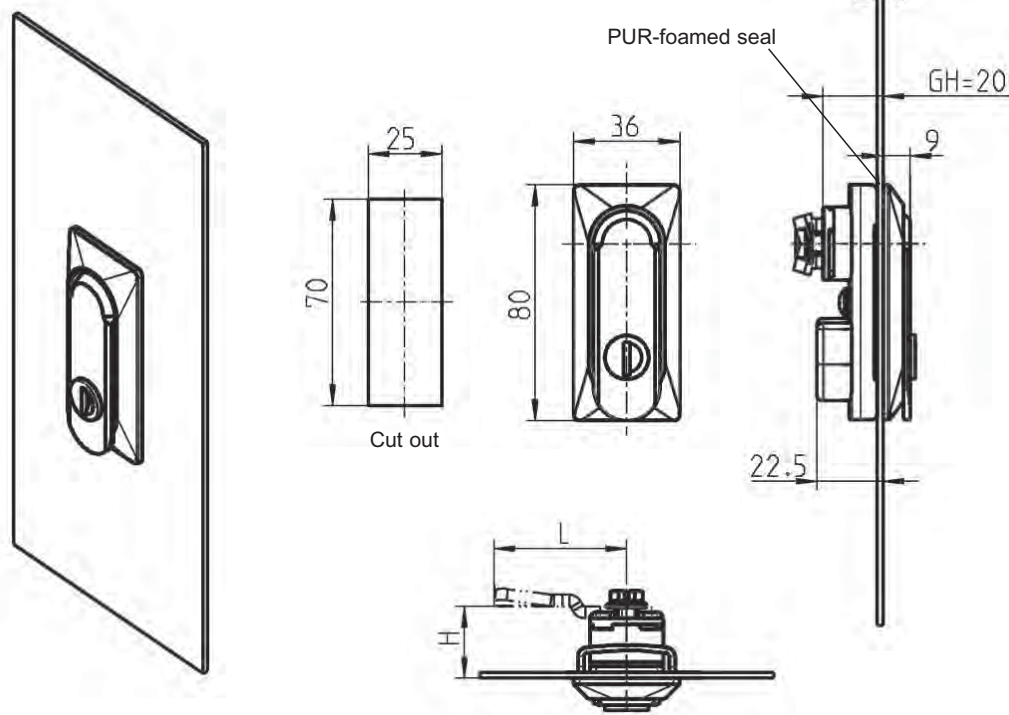
Swinghandle 1152

PROGRAM 1150

Swinghandle with push button or blind



Swinghandle with round cylinder



Turn 90°

Swinghandle zinc die black powder coated, fixing material m.s. zinc plated,
shaft zinc die zinc plated, with seal
Swinghandle, mini

Swinghandle with push button	1152-U1
Swinghandle with round cylinder, with stainless steel cap and shutter, keyed EK 333	1152-U2
Swinghandle with round cylinder, with stainless steel cap and shutter, keyed different	1152-U4
Swinghandle blank	1152-U3

Note:
Version in polyamide on request.

Further parts see page
– Cam on request
– Spare key 12B-140



Swinghandle with two locking options. For single point or multiple point locking system



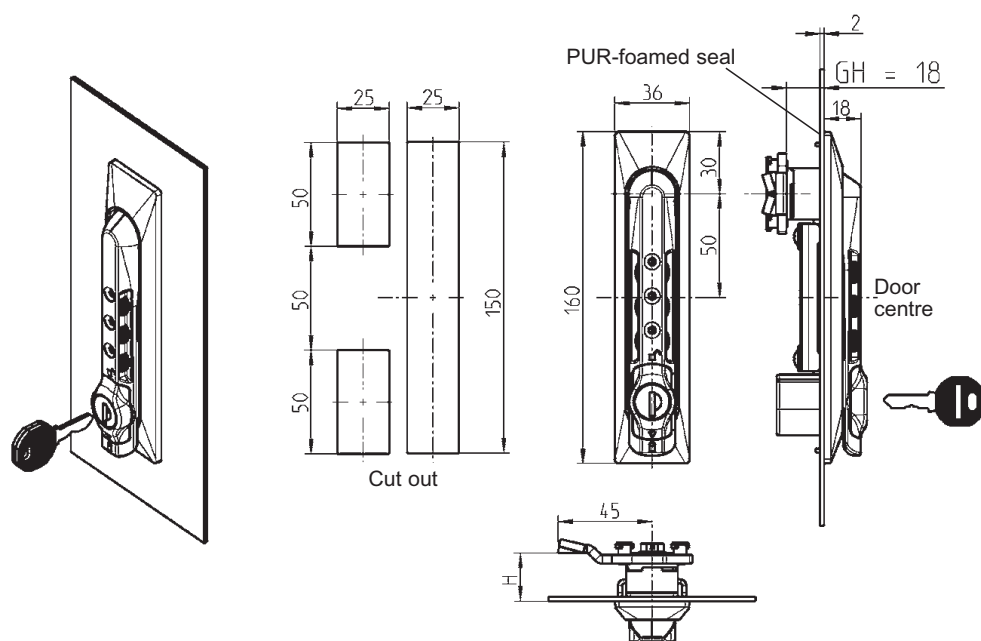
Option 1:

Release using round cylinder, operation as with usual swinghandles of program 1150. The combination lock remains untouched.



Option 2:

Release using combination lock and wing knob. The round cylinder remains locked. The arrow on the wing knob indicates the opened or closed position.



* can be assembled in cut out of 1125/1225

Further parts see page

– Cam (GH = 18) 3YC-120
– Spare key 12B-140

Swinghandle polyamide GF black, shaft zinc die zinc plated, round cylinder with stainless steel cap and shutter fixing material m.s. zinc pl., with seal

keyed EK 333

1155-U1

keyed different

1155-U2

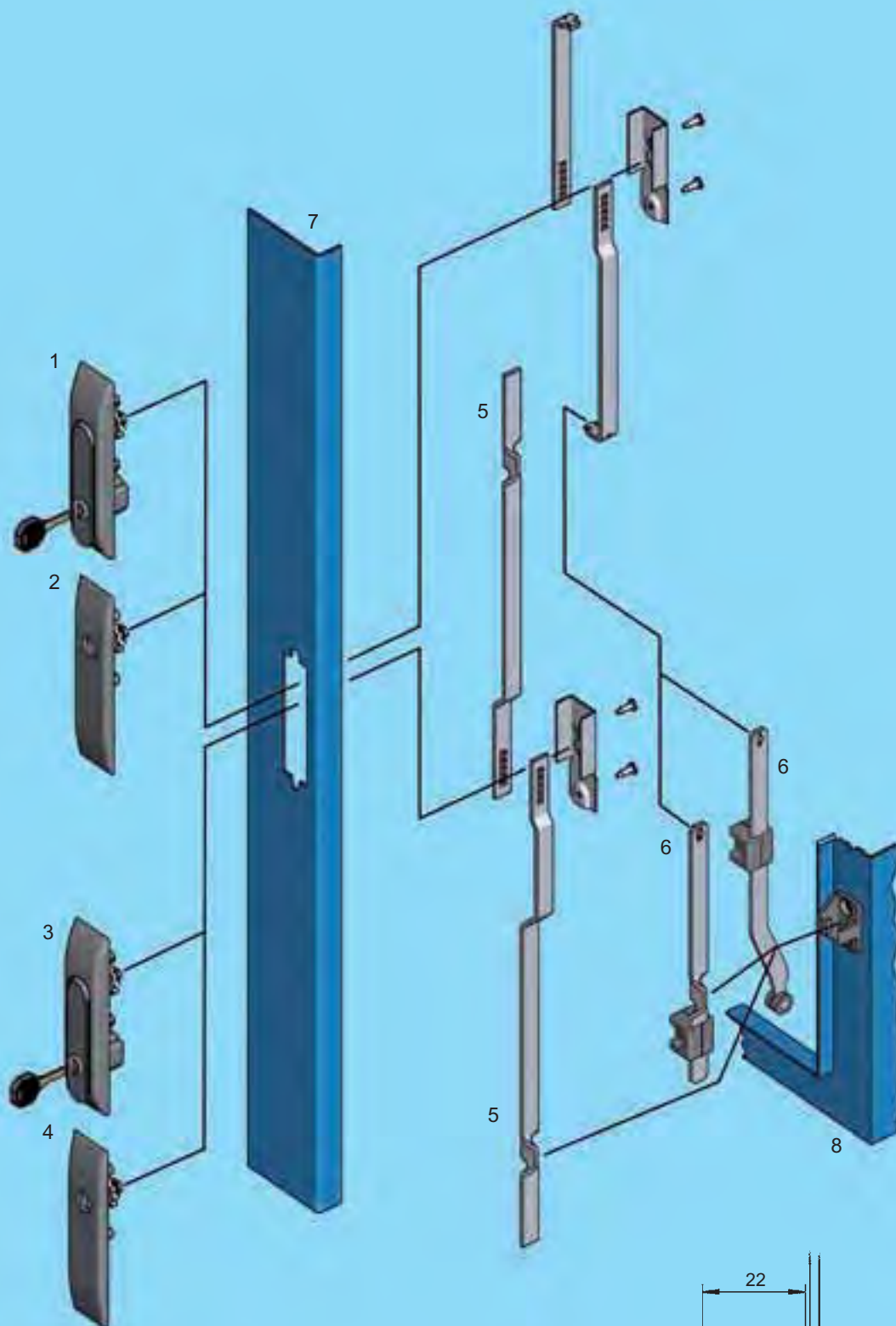
Swinghandle and escutcheon Program 1160

Info

1 Quarter turns

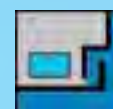
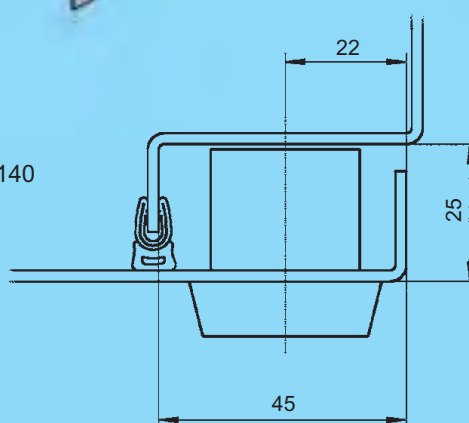
2 Rod controls

3 Locking
systems

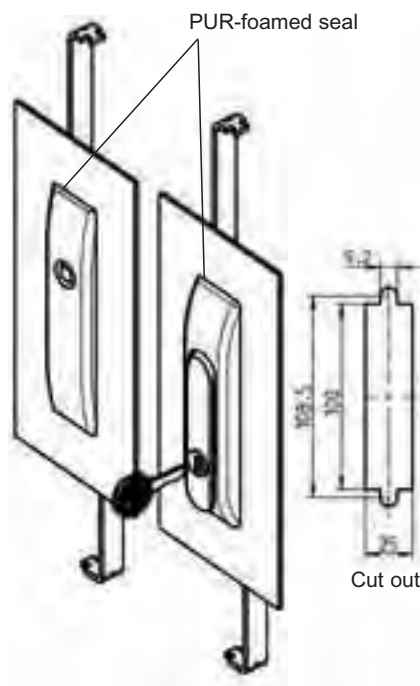
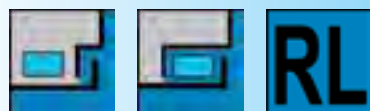


- 1 Swinghandle
- 2 Escutcheon
- 3 Swinghandle
- 4 Escutcheon
- 5 Rod
- 6 Rod
- 7 Door
- 8 Cabinet/frame

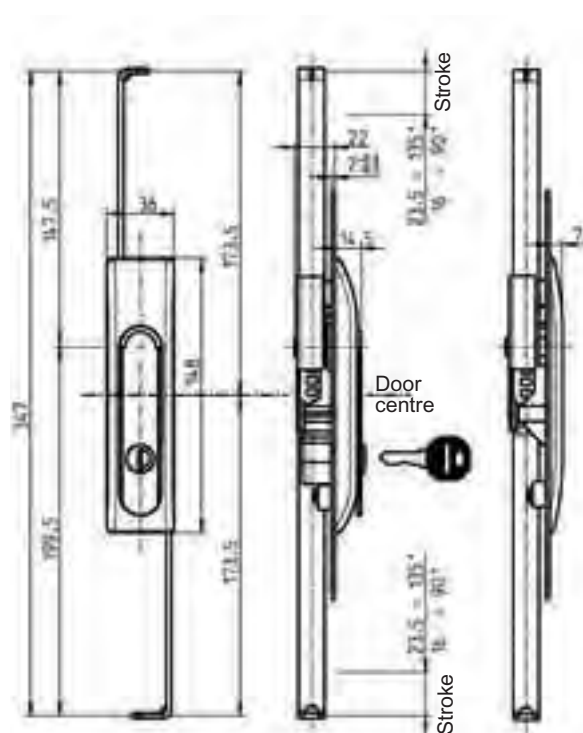
3D-120, 3D-140
3D-120
3D-220
3D-220



3D-100



Turn = Stroke
135° = 23,5 mm
90° = 16 mm



Swinghandle zinc die black powder coated,
escutcheon material on choice, rods m.s. zinc
plated, fixing material m.s. zinc plated,
shaft zinc die nickel plated, with seal

Escutcheon

poly-
amide

zinc die

Round cylinder with stainless steel cap
and shutter

keyed EK 333

1160-U1

1160-U3

keyed different

1160-U2

1160-U4

Insert zinc die
chrome plated

Square 6

1160-U9

1160-U20

Square 7

1160-U10

1160-U21

Square 8

1160-U11

1160-U22

Triangular 6,5 CNOMO

1160-U32

1160-U31

Triangular 7

1160-U12

1160-U23

Triangular 8

1160-U13

1160-U24

Double bit 3

1160-U14

1160-U25

Double bit 5

1160-U15

1160-U26

Daimler Benz

1160-U16

1160-U27

Slot 2x4

1160-U17

1160-U28

Hexagon female 8 with pin

1160-U18

1160-U29

Hexagon 11 male

1160-U19

1160-U30

Escutcheon polyamide GF black,
insert zinc die
chrome plated,
rods m.s. zinc plated,
fixing material m.s. zinc plated,
with seal

with mask

Double bit 3

1160-U52

Double bit 5

1160-U53

FIAT

1160-U64

without mask

Square 6

1160-U54

Square 7

1160-U55

Square 8

1160-U56

Triangular 6,5 CNOMO

1160-U65

Triangular 7

1160-U57

Triangular 8

1160-U58

Square female 8

1160-U63

Daimler Benz

1160-U59

Slot 2x4

1160-U60

Double bit 3

1160-U61

Double bit 5

1160-U62

Eastern Europe

Ø 13

1160-U66

Further parts see page

– Rod

 outside

3ZA-120

 inside

3ZA-320

3ZB-120

3ZB-220

– Spare key

12B-140

Swinghandle with rods

PROGRAM 1160

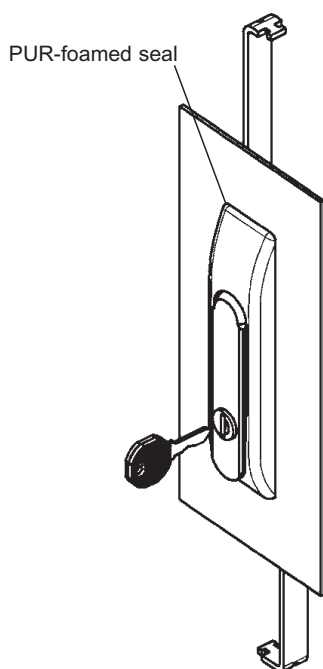
Beschlagteile

1 Quarter turns

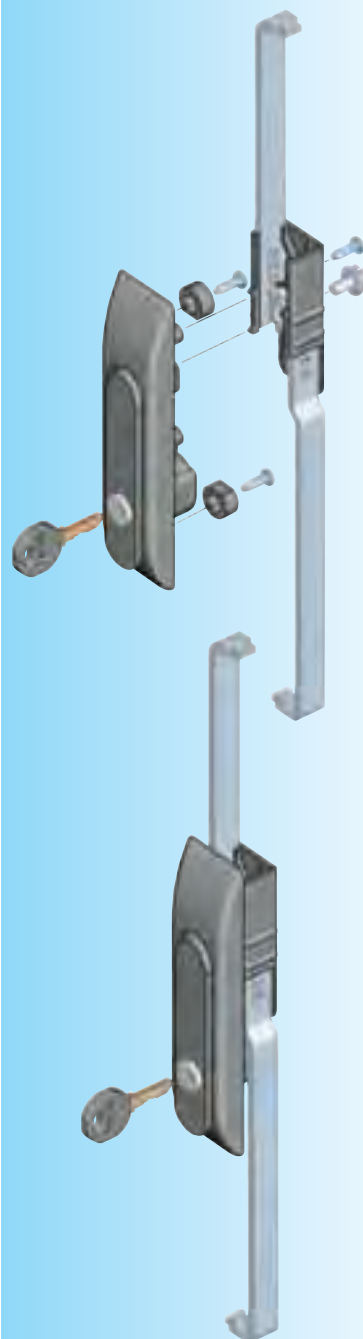
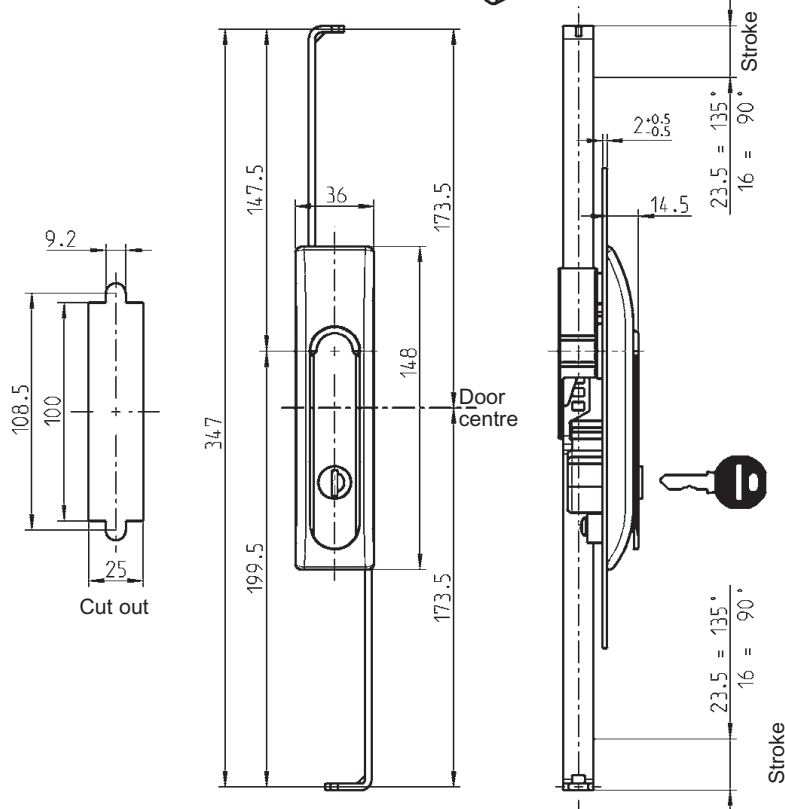
2 Rod controls

3 Locking systems

Swinghandle for assembled rod control



Turn = Stroke
135° = 23,5 mm
90° = 16 mm



Swinghandle zinc die black powder coated, shaft zinc die zinc plated, escutcheon material on choice, fixing material m.s. zinc pl., with seal

Escutcheon

polyamide

zinc die

Round cylinder with stainless steel cap and shutter

keyed EK 333

1160-U201

1160-U203

keyed different

1160-U202

1160-U204

Rod control polyamide GF black, rods m.s. zinc plated

RH version

1160-U200-RE

LH version

1160-U200-LI

Further parts see page

– Rod

outside

3ZA-120

inside

3ZA-320

3ZB-120

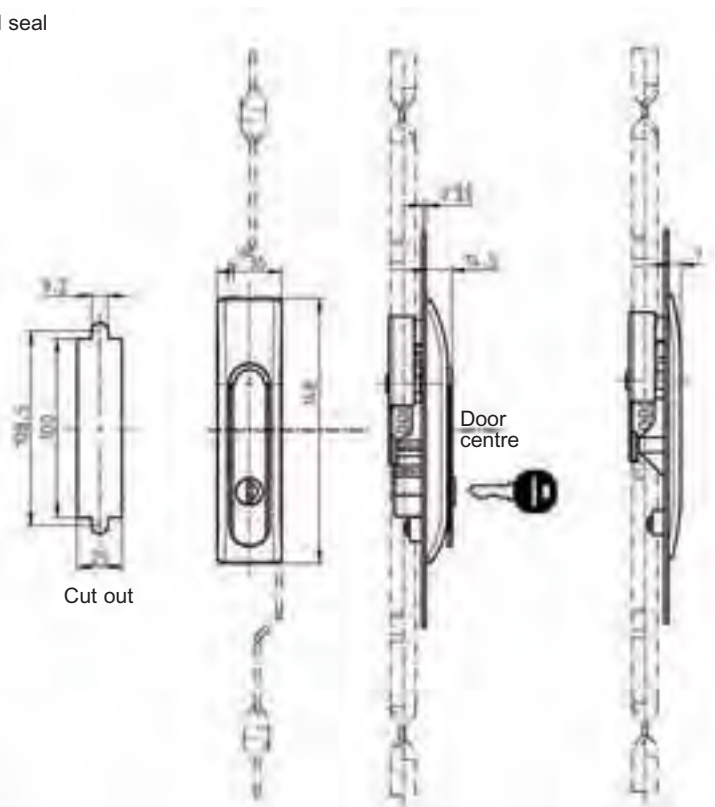
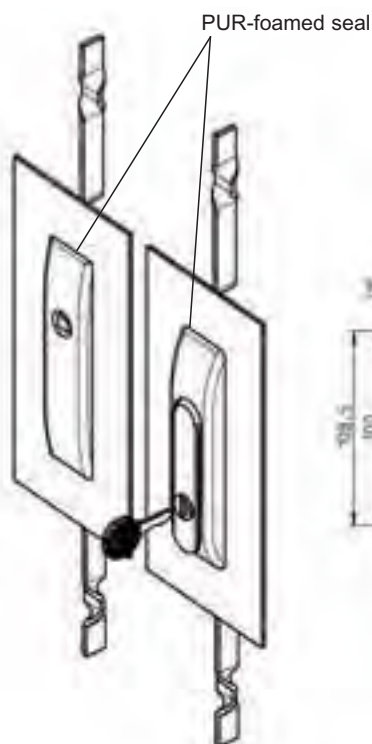
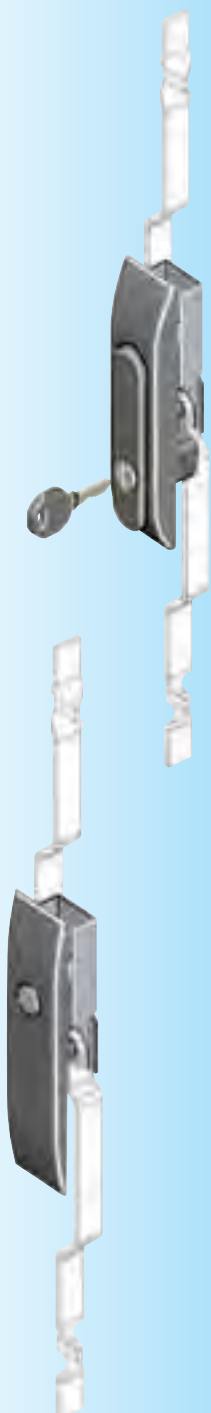
3ZB-220

– Spare key

12B-140

3D-140

(3M-140)



Swinghandle zinc die black powder coated,
escutcheon material on choice,
fixing material m.s. zinc plated,
shaft zinc die zinc plated, with seal

Escutcheon

polyamide zinc die

Round cylinder with stainless steel cap
and shutter

keyed EK 333

1160-U101

1160-U103

keyed different

1160-U102

1160-U104

Insert zinc die
chrome plated

Square 6

1160-U109

1160-U120

Square 7

1160-U110

1160-U121

Square 8

1160-U111

1160-U122

Triangular 6,5 CNOMO

1160-U132

1160-U131

Triangular 7

1160-U112

1160-U123

Triangular 8

1160-U113

1160-U124

Double bit 3

1160-U114

1160-U125

Double bit 5

1160-U115

1160-U126

Daimler Benz

1160-U116

1160-U127

Slot 2x4

1160-U117

1160-U128

Hexagon female 8 with pin

1160-U118

1160-U129

Hexagon 11 male

1160-U119

1160-U130

Escutcheon polyamide black, insert
zinc die chrome plated, rods m.s.
zinc plated, fixing material m.s. zinc
plated, with seal

with mask

Double bit 3

1160-U152

Double bit 5

1160-U153

FIAT

1160-U164

without mask

Square 6

1160-U154

Square 7

1160-U155

Square 8

1160-U156

Triangular 6,5
CNOMO

1160-U165

Triangular 7

1160-U157

Triangular 8

1160-U158

Square female 8

1160-U163

Daimler Benz

1160-U159

Slot 2x4

1160-U160

Double bit 3

1160-U161

Double bit 5

1160-U162

Eastern Europe
Ø 13

1160-U166

Further parts see page

– Rod

– outside

3ZA-420

– Spare key

12B-140

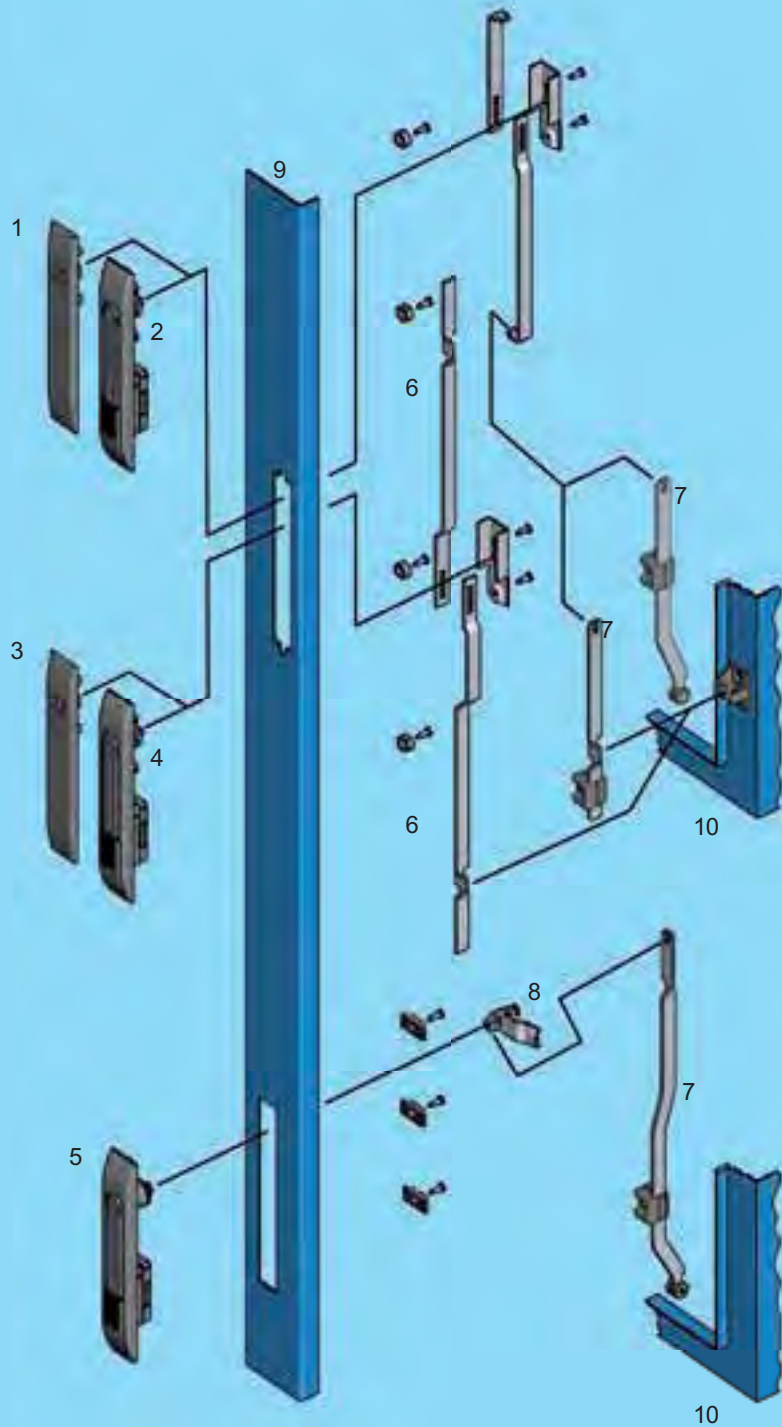
Swinghandle and escutcheon Program 1180

Info

1 Quarter turns

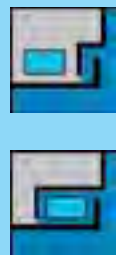
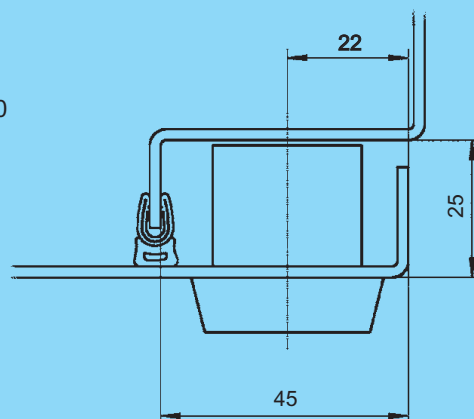
2 Rod controls

3 Locking
systems

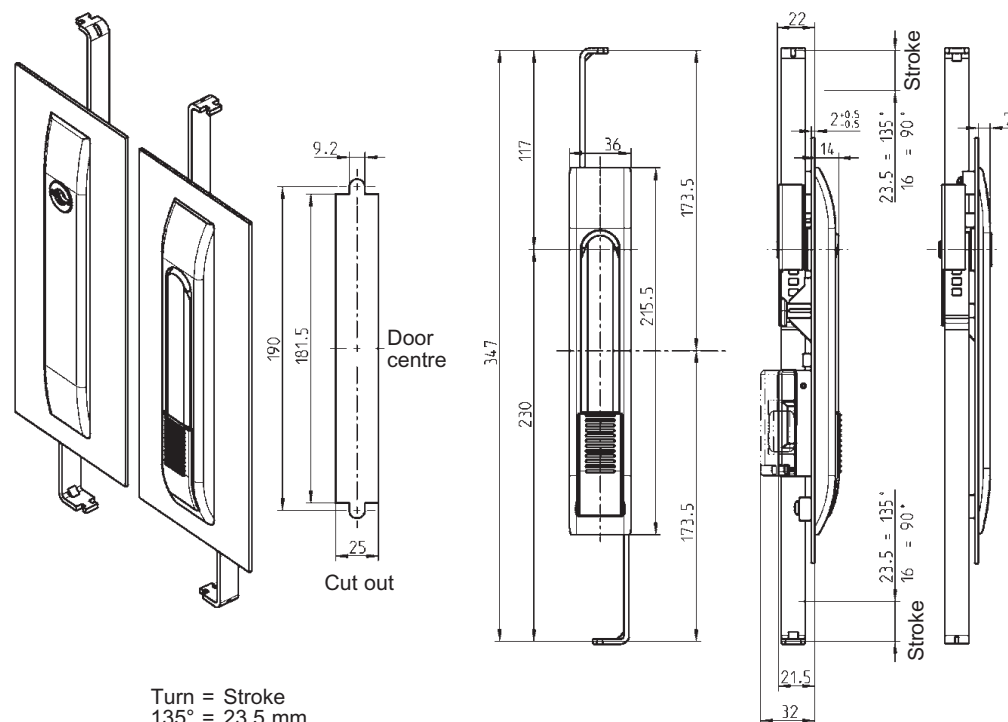
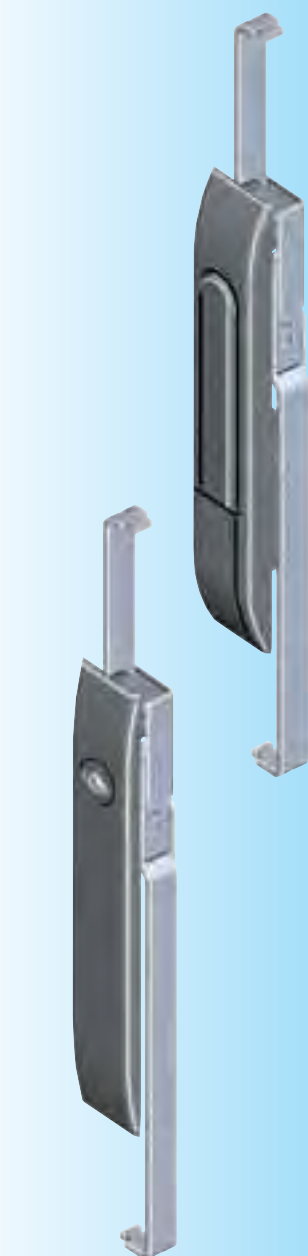
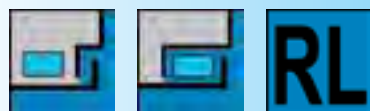


- 1 Escutcheon
- 2 Swinghandle
- 3 Escutcheon
- 4 Swinghandle
- 5 Swinghandle
- 6 Rod
- 7 Rod
- 8 Cam
- 9 Door
- 10 Cabinet/frame

3E-120
3E-120, 3E-140
3E-220
3E-220
3E-320



3E-100



Swinghandle with push button (2100-U57), handle zinc die black shaft zinc die, zinc pl., escutcheon polyamide black, rods m.s. zinc pl. fixing material m.s. zinc pl., with seal

1180-U1

Escutcheon polyamide black, insert zinc die, chrome pl., rods m.s. zinc pl., fixing material m.s. zinc pl., with seal

with mask

Double bit 3

1180-U2

Double bit 5

1180-U3

FIAT

1180-U14

without mask

Square 6

1180-U4

Square 7

1180-U5

Square 8

1180-U6

Triangular 6,5 CNOMO

1180-U15

Triangular 7

1180-U7

Triangular 8

1180-U8

Square female 8

1180-U13

Daimler Benz

1180-U9

Slot 2x4

1180-U10

Double bit 3

1180-U11

Double bit 5

1180-U12

Eastern Europe Ø 13

1180-U16

Further parts see page

– Key 12B-120

– Locking set 3XA-120

3XA-240

– Locking set ELM Chapter 11

– Rod

outside

3ZA-120

inside

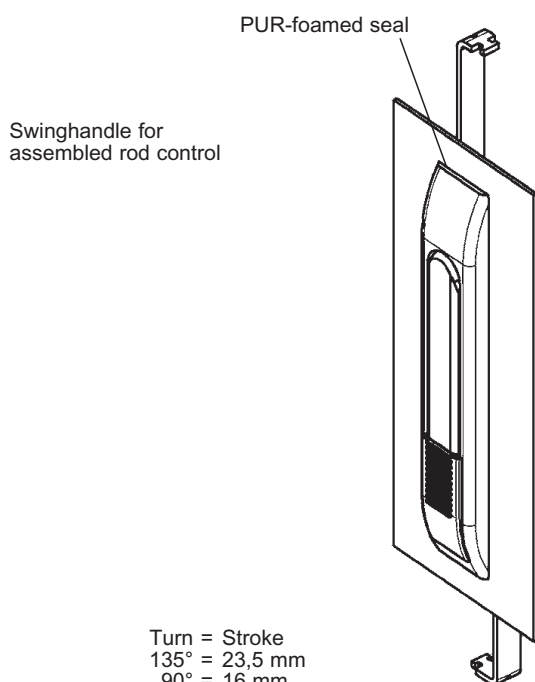
3ZA-320

3ZB-120

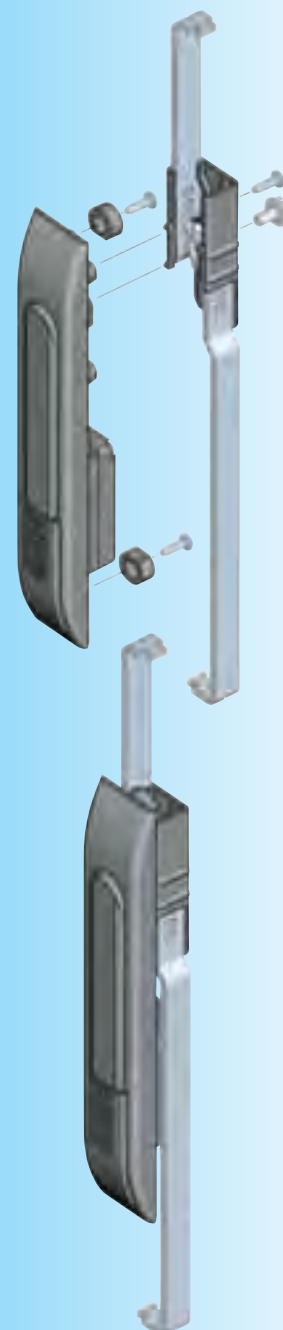
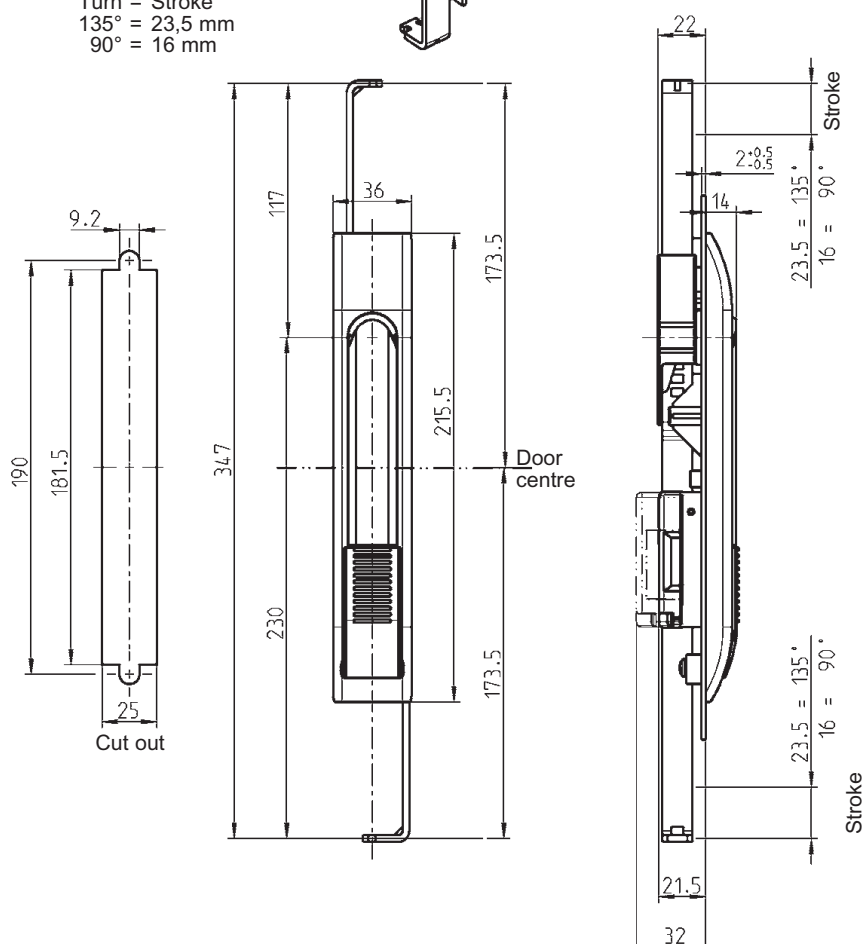
3ZB-220

Swinghandle with rods

PROGRAM 1180



Turn = Stroke
135° = 23,5 mm
90° = 16 mm



Swinghandle, with push button (2100-U57), handle zinc die black powder coated
shaft zinc die zinc plated, escutcheon polyamide GF black,
fixing material m.s. zinc pl., with seal

1180-U301

Rod control polyamide GF black, rods m.s. zinc plated

RH version

1180-U200-RE

LH version

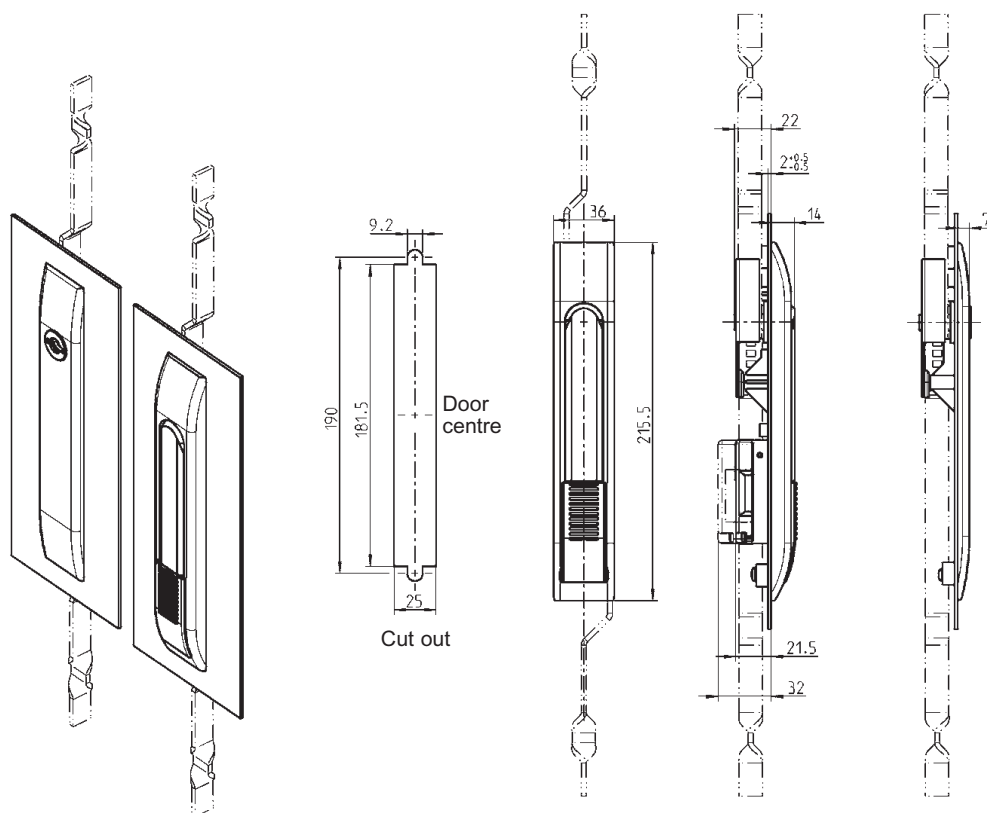
1180-U200-LI

Further parts see page

– Locking set 3XA-120
3XA-240

– Locking set ELM Chapter 11

– Rod
outside 3ZA-120
3ZA-320
inside 3ZB-120
3ZB-220



Swinghandle, with push button (2100-U57), handle zinc die black powder coated shaft zinc die, zinc plated, escutcheon polyamide GF black, fixing material m.s. zinc plated, with seal

1180-U101

Escutcheon polyamide GF black, insert zinc die, chrome plated, rods m.s. zinc plated, with seal

with mask

Double bit 3

1180-U102

Double bit 5

1180-U103

FIAT

1180-U114

without mask

Square 6

1180-U104

Square 7

1180-U105

Square 8

1180-U106

Triangular 6,5 CNOMO

1180-U115

Triangular 7

1180-U107

Triangular 8

1180-U108

Square female 8

1180-U113

Daimler Benz

1180-U109

Slot 2x4

1180-U110

Double bit 3

1180-U111

Double bit 5

1180-U112

Eastern Europe Ø 13

1180-U116

Further parts see page

– Key 12B-120

– Locking set 3XA-120

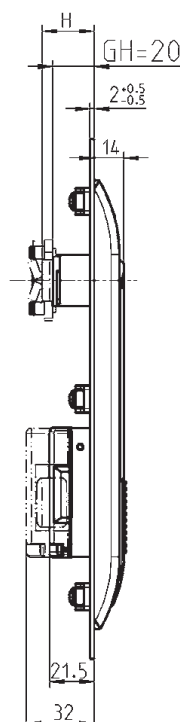
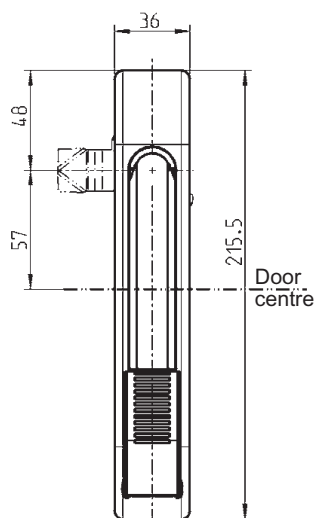
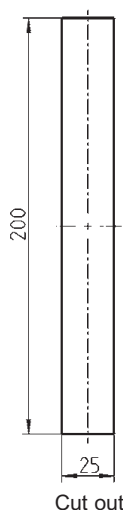
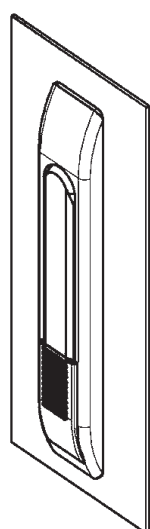
3XA-240

– Locking set ELM Chapter 11

– Rod

outside 3ZA-520

Swinghandle with 3-point-locking system PROGRAM 1180



Swinghandle with push button (2100-U57), handle zinc die black powder coated, shaft zinc die zinc pl., escutcheon polyamide GF black, fixing material m.s. zinc pl., fixing bridges polyamide GF black, with seal

1180-U201

Further parts see page

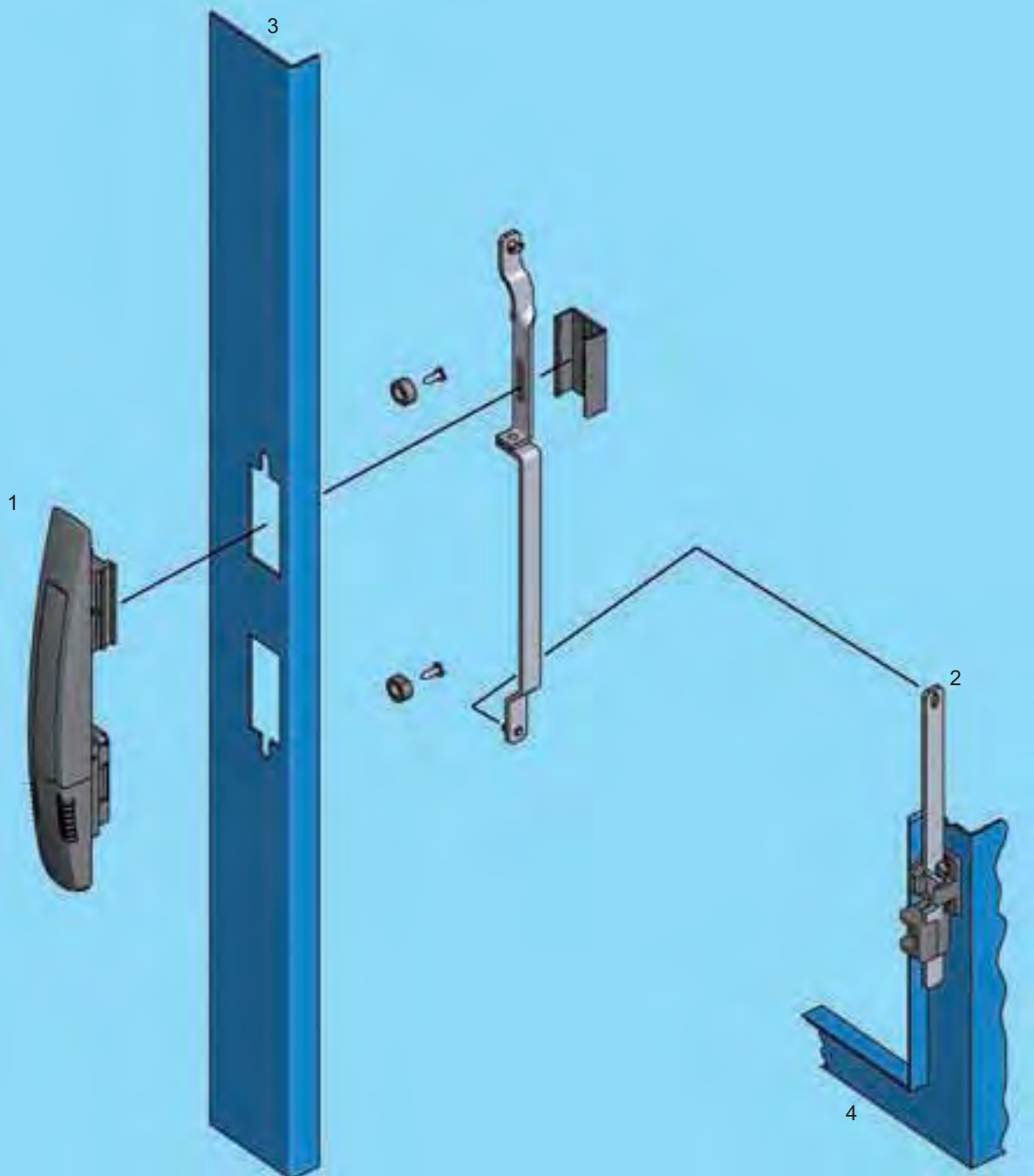
– Locking set 3XA-120
3XA-240
– Locking set ELM Chapter 11
– Cam (GH = 20) 3YC-140

3E-320

(3P-200)

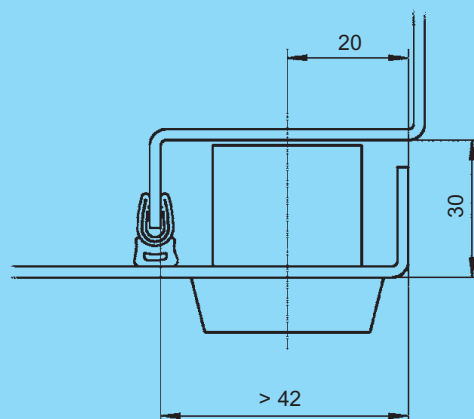
Notes:

Lifthandle Program 1190



- 1 Lifthandle
- 2 Rod
- 3 Door
- 4 Cabinet/frame

3F-120



3F-100

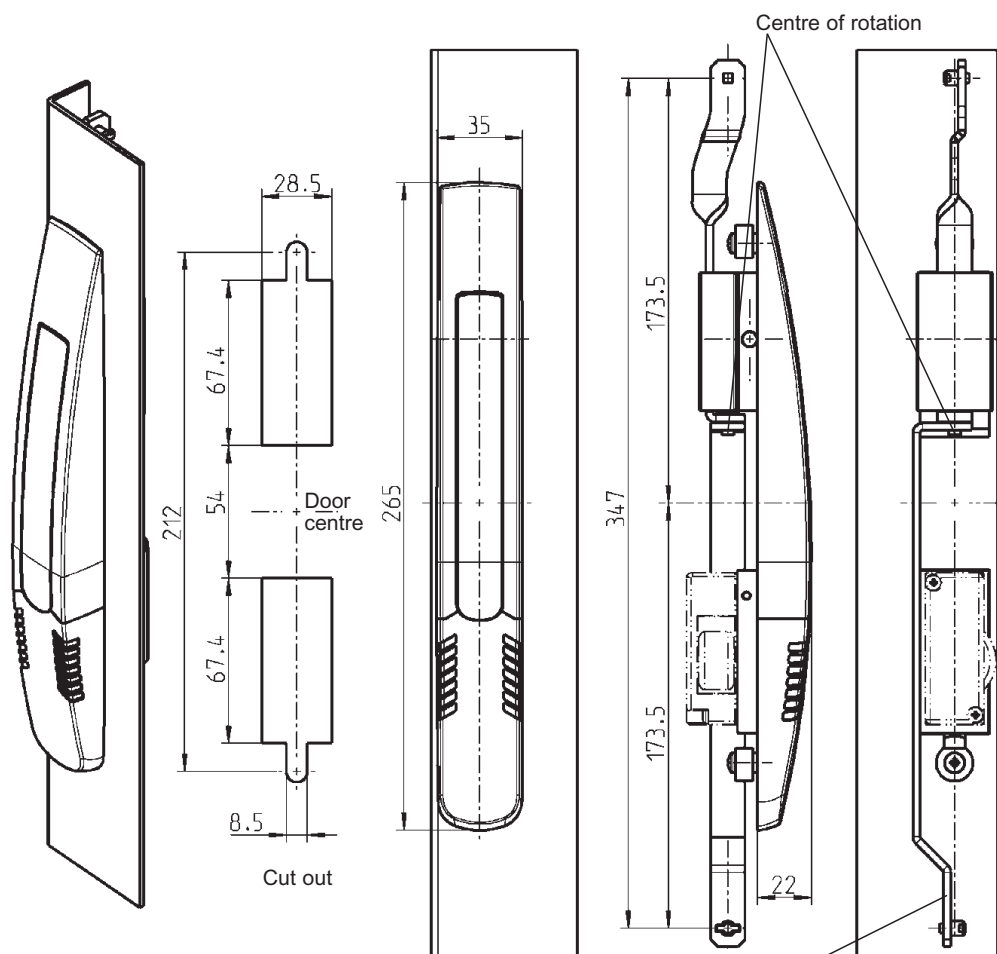


RL

IP 40



Rods travel in one direction only



For hinge position LH
rotate the lower rod

Bending area

Stroke 18 mm

Further parts see page

– Locking set

3XA-120

3XA-240

– Rod

outside

3ZA-120

3ZA-320

Lifthandle polyamide black, flat rod m.s. zinc plated,
push button polyamide, fixing material m.s. zinc-plated

1190-U1

3F-120

(3R-120)

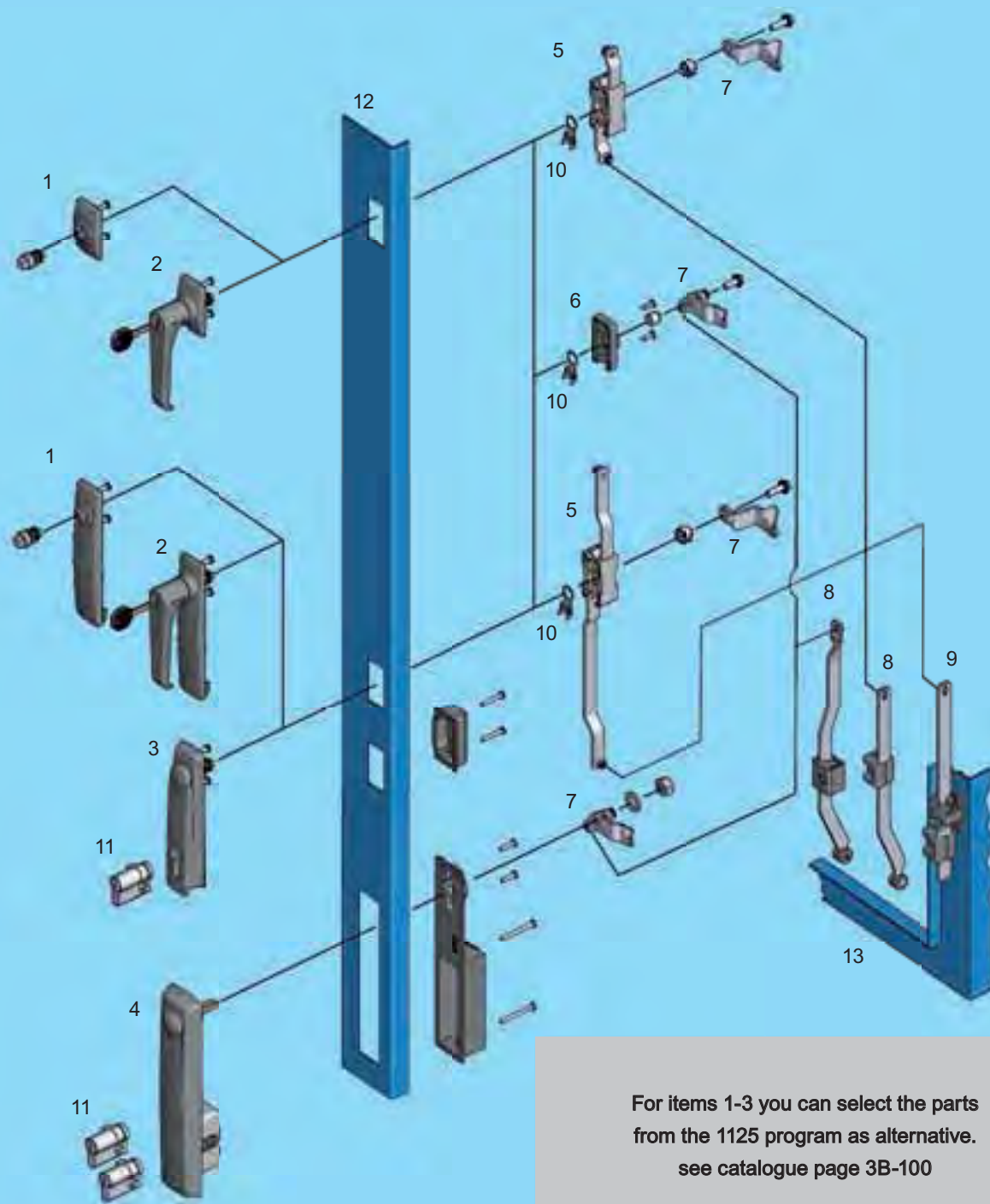
Swinghandle and escutcheon Program 1225

Info

1 Quarter turns

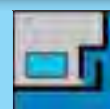
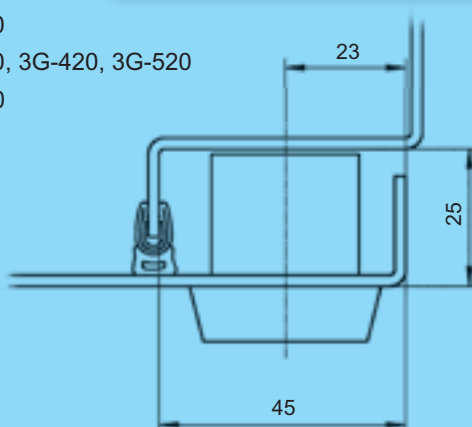
2 Rod controls

3 Locking
systems



- 1 Escutcheon with insert
- 2 Escutcheon with handle
- 3 Swinghandle
- 4 Swinghandle (double cylinder)
- 5 Rod control
- 6 Bearing bush
- 7 Cam
- 8 Rod (inside the gasketing)
- 9 Rod (outside the gasketing)
- 10 Earthing device
- 11 Profile half cylinder
- 12 Door
- 13 Cabinet/frame

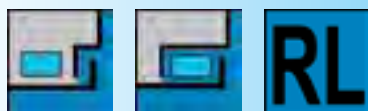
3G-120
3G-180
3G-220, 3G-420, 3G-520
3G-320



3G-100

Escutcheon with insert PROGRAM 1225

Beschlagteile



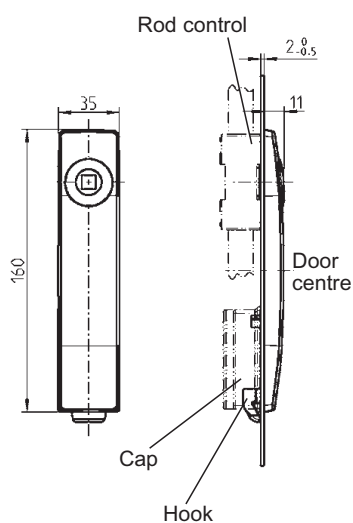
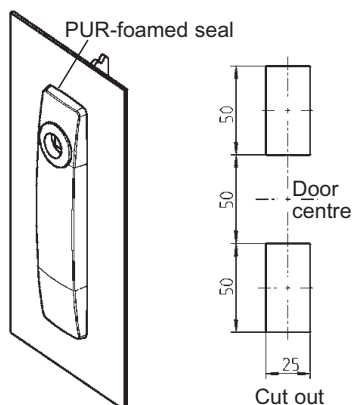
* in Polyamide on request

Further parts see page

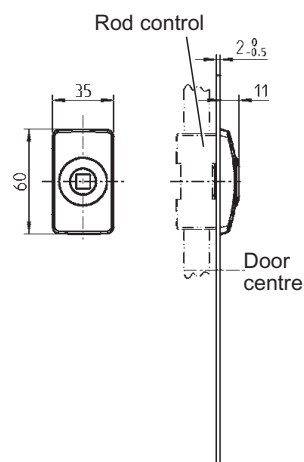
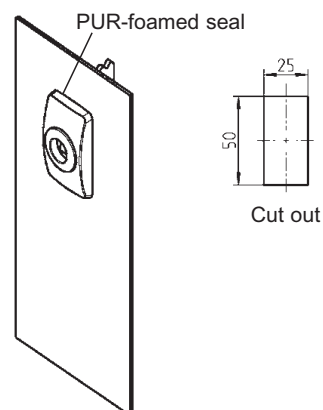
– Key 12B-120
– Rod control for long version 3YA-120

Short version 3YA-140
– Bearing bush 3YA-160 3YB-120

Escutcheon, long



Escutcheon, short



Escutcheon, long, polyamide black screws m.s. zinc pl., with seal

	hook IP 40	screw on cap IP 65	Escutcheon, short polyamide GF black, screws m.s. zinc plated, with seal IP 65
for square, triangular			
Daimler-Benz, slot	1221-U19	1221-U133	1221-U22
for double bit	1221-U20	1221-U134	1221-U23
for railroad square 9	1221-U19A	1221-U135	1221-U22A

Insert, zinc die chrome plated, fixing material m.s. zinc plated

Square 6	1121-U11	Double bit 3*	1121-U16
Square 7	1121-U12	Double bit 5*	1121-U17
Square 8	1121-U13	Square female 8	1121-U167
Triangular 6,5 CNOMO	1121-U169	Slot 2 x 4	1121-U123
Triangular 7	1121-U14	Railroad square 9	1121-U72
Triangular 8	1121-U15	Daimler Benz	1221-U18

Accessories



Transport safety device polyamide GF
black for double bit insert

1121-32

3G-120

(3T-140)

Escutcheon with handle

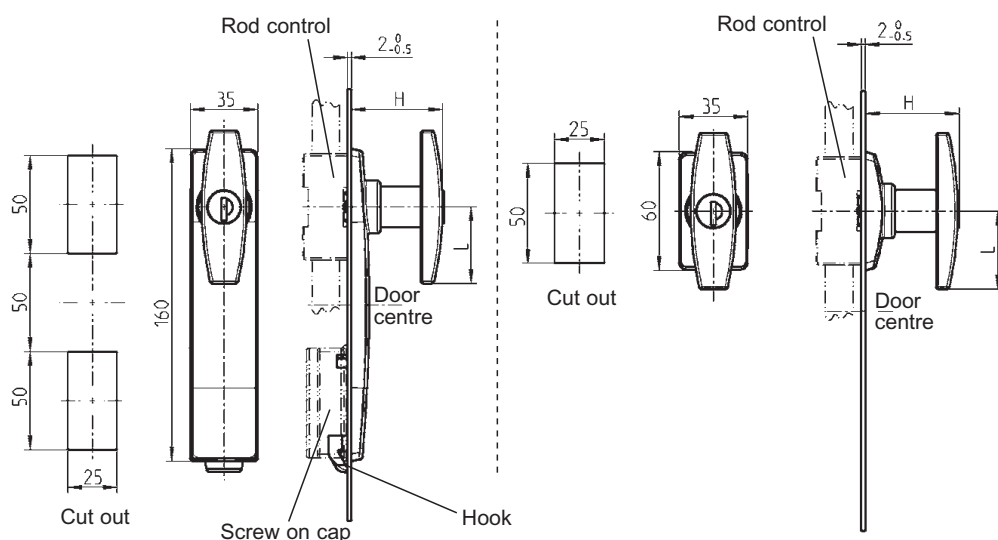
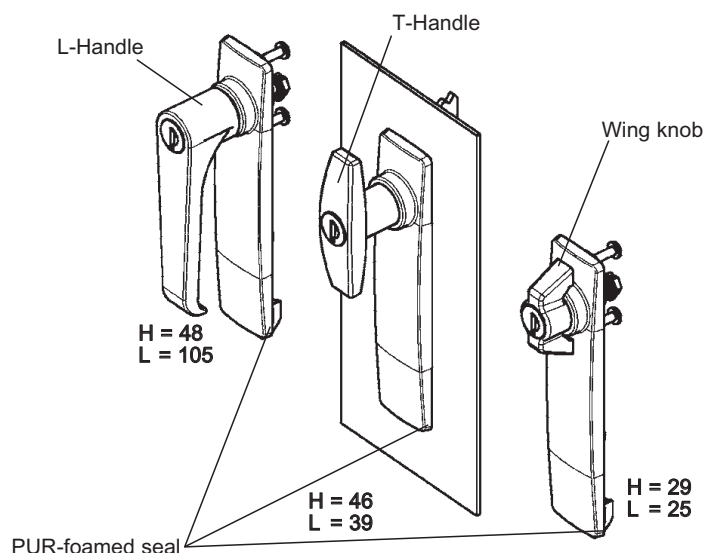
PROGRAM 1225

Beschlagteile

1 Quarter turns

2 Rod controls

3 Locking systems



Each cylinder has one silver steel key with polyamide GF grip black.

Escutcheon polyamide GF black, round cylinder with stainless steel cap and shutter, fixing material m.s. zinc plated, with seal

	Escutcheon long		Escutcheon short IP 65
	hook	screw on cap	
	IP 40	IP 65	
Wing knob zinc die black powder coated			
non locking	1223-U1	1223-U25	1223-U4
keyed EK 333	1223-U2	1223-U26	1223-U5
keyed different	1223-U3	1223-U27	1223-U6
T-Handle zinc die black powder coated			
non locking	1223-U7	1223-U28	1223-U10
keyed EK 333	1223-U8	1223-U29	1223-U11
keyed different	1223-U9	1223-U30	1223-U12
prepared for KABA 1036	1223-U21	–	1223-U22
L-Handle zinc die black powder coated			
non locking	1223-U13	1223-U31	1223-U16
keyed EK 333	1223-U14	1223-U32	1223-U17
keyed different	1223-U15	1223-U33	1223-U18
prepared for KABA 1036	1223-U19	–	1223-U20

Further parts see page

- Key 12B-120
- Spare key 12B-140
- Rod control for long version 3YA-120
- Short version 3YA-140
- Bearing bush 3YA-160
- Dust cap for T-Handle 3YB-120
- 1C-340

3G-180

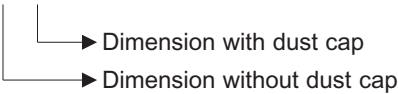
(3T-180)

Swinghandle

PROGRAM 1225

Example:

*(22/24 mm)



Swinghandle for profile half cylinder, polyamide GF black, shaft zinc die zinc plated, fixing material m.s. zinc plated, with seal

	screw on cap IP 65		hook IP 40	
	with sliding dust cover	without	with sliding dust cover	without
for 40 mm half cylinder *(22/24 mm)	1225-U191	1225-U190	1225-U186	1225-U185
for 40 mm half cylinder *(22/24 mm) lead-sealable	1225-U191-01		1225-U186-01	
for 45 mm half cylinder *(28/30 mm)	1225-U196	1225-U195	1225-U194	1225-U193
with cylinder (Berlin version)			1225-U276	1225-U275

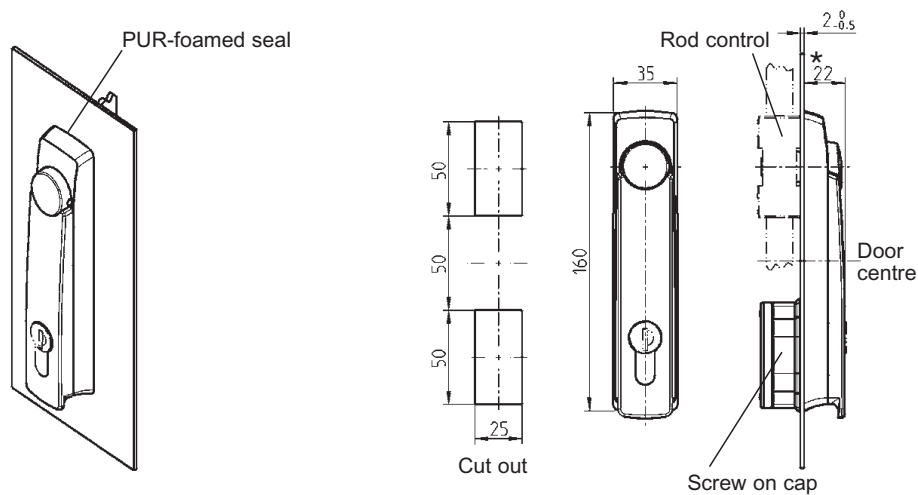
Swinghandle with EMC-Version for profile half cylinder, polyamide GF black, shaft zinc die zinc plated, fixing material m.s. zinc plated, with seal

for 40 mm half cylinder *(22/24 mm)	1225-U191-E			
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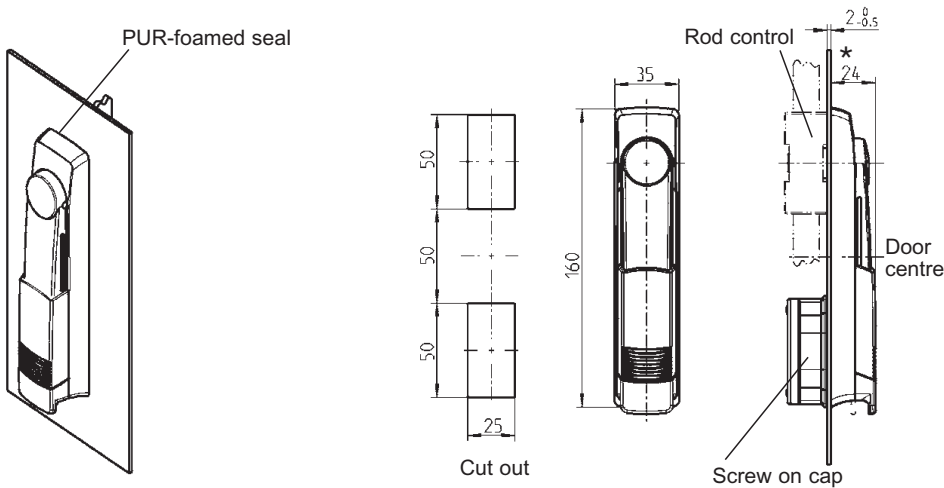
Swinghandle with round cylinder, with stainless steel cap and shutter or insert, polyamide GF black, shaft zinc die zinc plated, fixing material m.s. zinc plated, with seal

	screw on cap		Hook	
	with sliding dust cap	without	with sliding dust cap	without
Round cylinder keyed EK 333	1225-U206	1225-U202		1225-U268
Round cylinder keyed different	1225-U207	1225-U203		1225-U269
Square 6 ¹⁾	1225-U242	1225-U210		
Square 7 ^{1) 2)}	1225-U243	1225-U211		
Square 8 ^{1) 2)}	1225-U244	1225-U212		
Square 8 slotted	1225-U245	1225-U213		
Triangular 6,5 CNOMO	1225-U246	1225-U214	1225-U201	1225-U200
Triangular 7 ¹⁾	1225-U247	1225-U215		
Triangular 8 ^{1) 2)}	1225-U248	1225-U216		
Double bit 3	1225-U249	1225-U236		
Double bit 5	1225-U250	1225-U239		
Hexagon female 10	1225-U251	1225-U219		
Female Square 6	1225-U252	1225-U220		
Female Square 8	1225-U253	1225-U221		
Daimler Benz	1225-U254	1225-U222		
Slot 1,2 x 3				
Slot 2 x 4 ^{1) 2)}	1225-U256	1225-U224		
Crown type	1225-U257	1225-U225		
Eastern Europe Ø 13	1225-U282	1225-U283		
Prepared for padlock and profile cylinder		1225-U184		

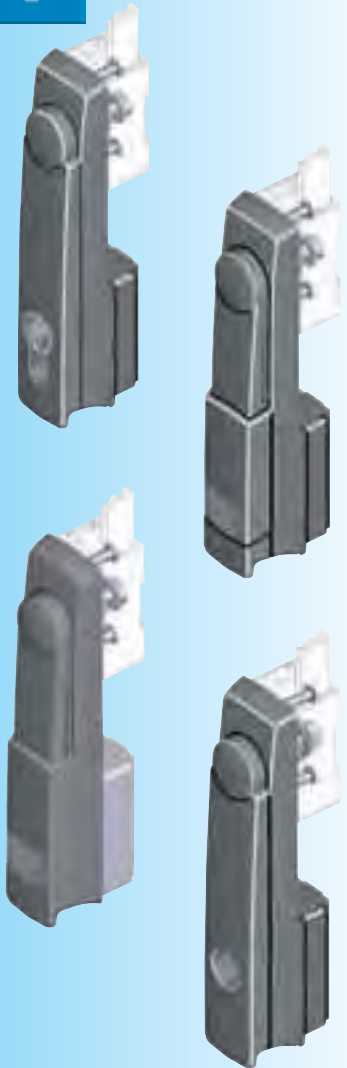
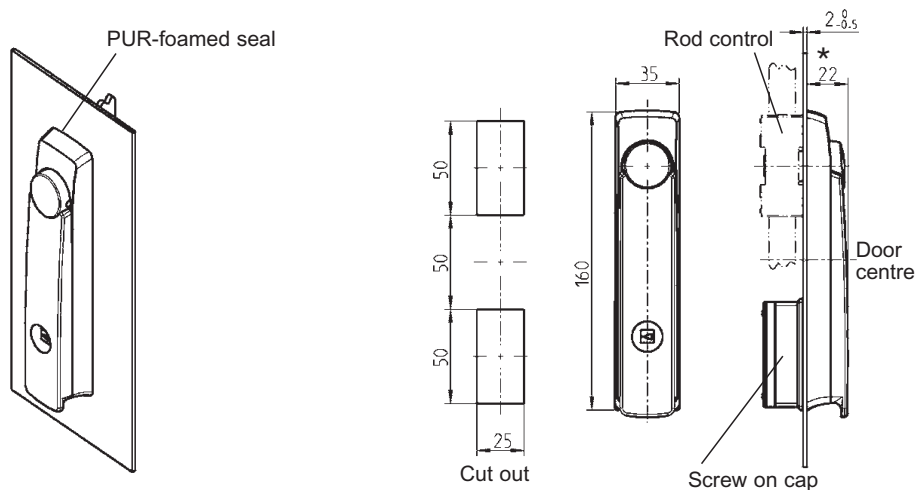
Swinghandle for profile half cylinder



Swinghandle with sliding dust cover



Swinghandle with round cylinder or insert

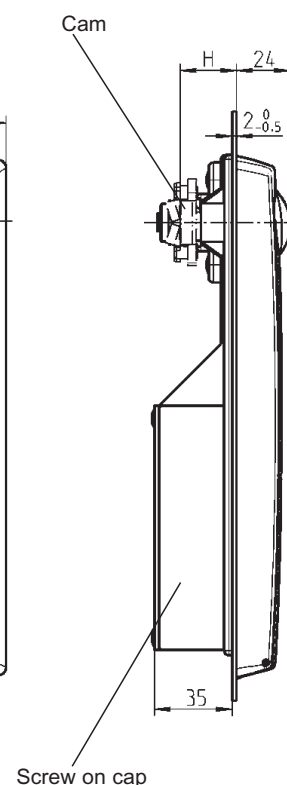
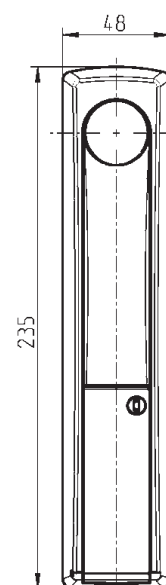
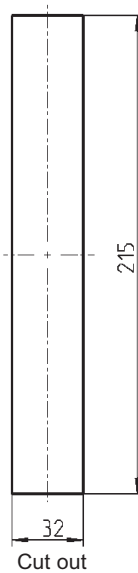
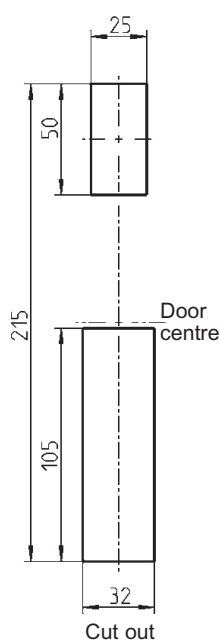
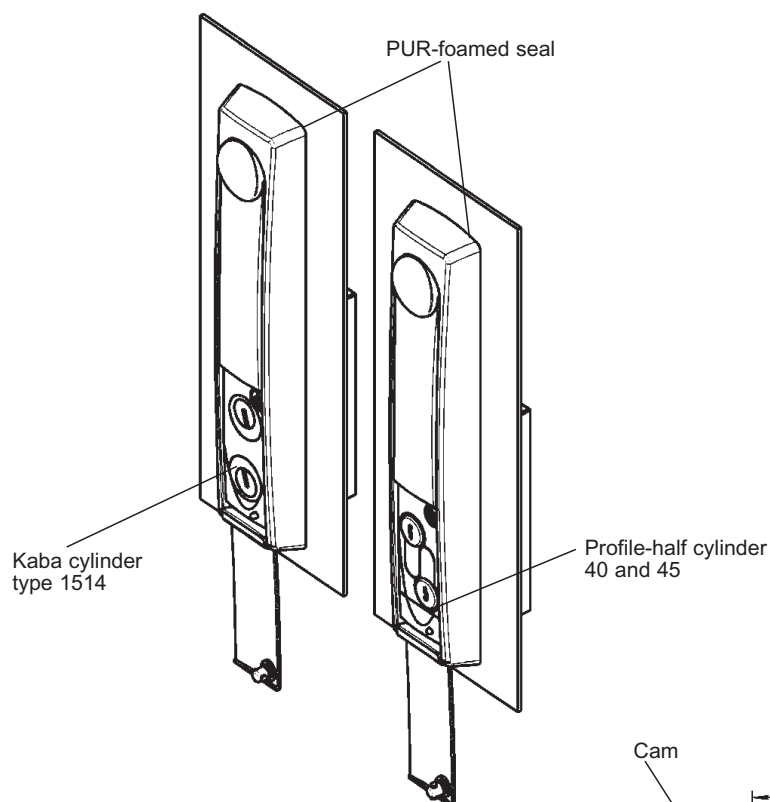


Further parts see page

– Key	11B-120
– Rod control	3YA-120
	3YA-140
– Bearing bush	3YB-120
– Profile half cylinder	3XB-120

On request:

- Insert in
- 1) Zinc die black p.c.
- 2) polyamide black
- Cap without foamed seal for small bending area
- EMC-version
- Swinghandle lead-sealable
- Handle in zinc die



Further parts see page

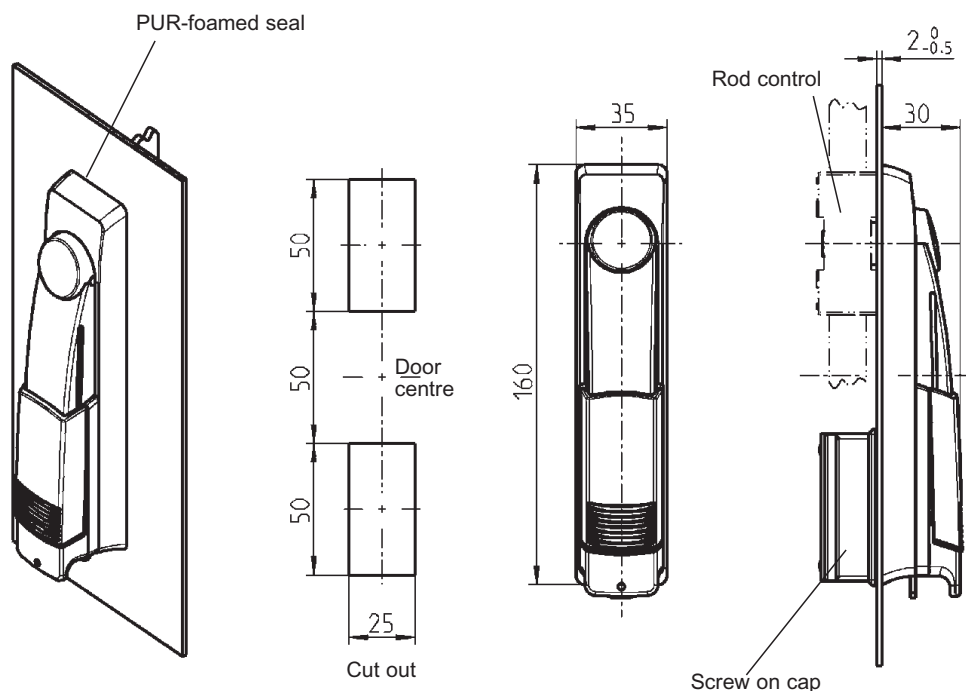
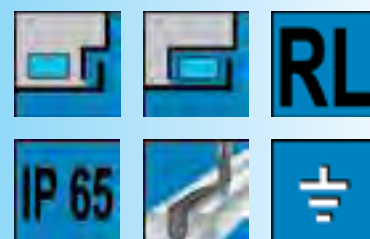
- Cam 3YC-140
- Profile half cylinder 3XB-220 (please only use 1089-U1 or 1089-U2)

Swinghandle and escutcheon zinc die black powder coated, shaft brass, fixing material m.s. zinc pl., with seal

Double cylinder swinghandle for profile half cylinder	1225-U60
Blank for using only one profile half cylinder	1109-09-AA
Double cylinder swinghandle for type KABA 1514	1225-U62

Swinghandle KABA and ASSA PROGRAM 1225

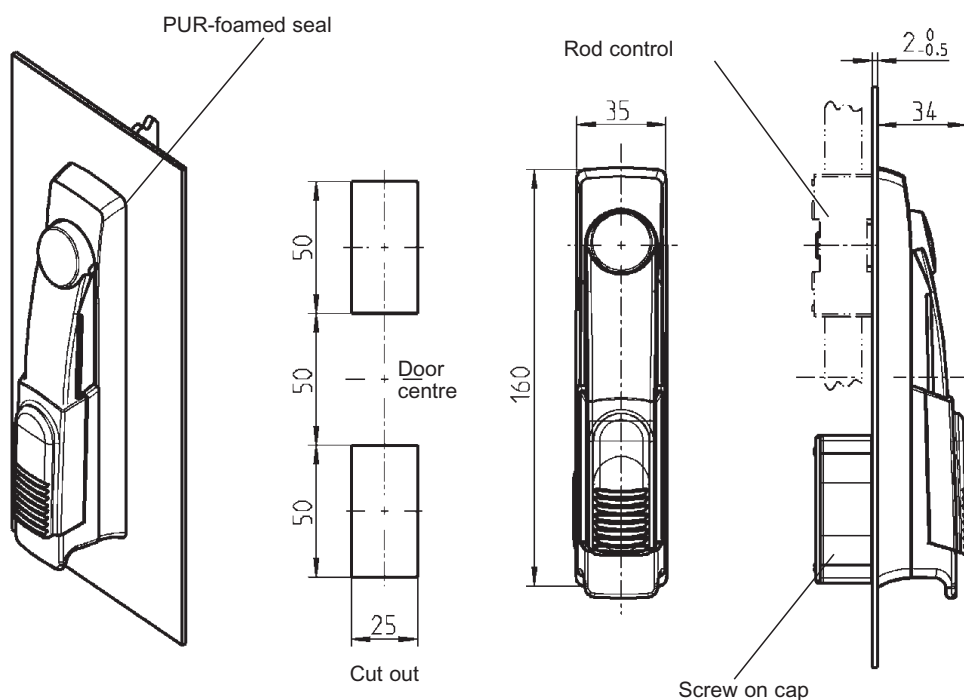
Beschlagteile



Note: Customer to supply own KABA Cylinder

Swinghandle for KABA-cylinder,
polyamide black, lead-sealable

1225-U291



Note: Customer to supply own ASSA Cylinder

Swinghandle for ASSA-cylinder,
polyamide black, shaft zinc die zinc pl., fixing material m.s. zinc pl., with seal

1225-U198

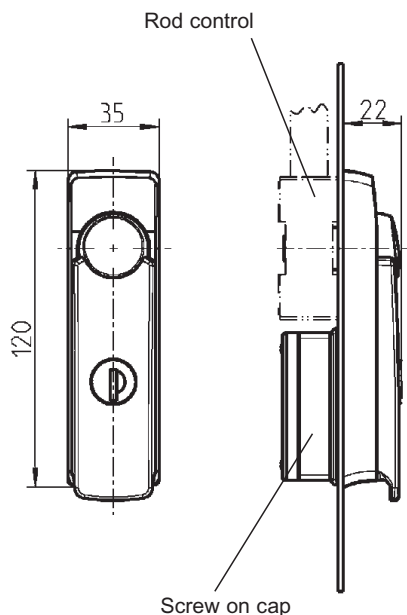
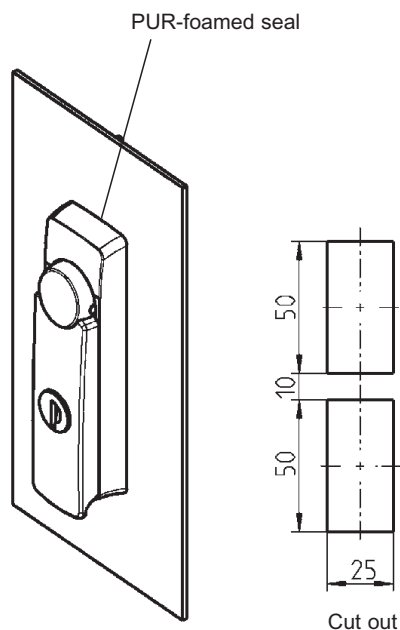


Further parts see page

– Rod control 3YA-120
3YA-140
– Bearing bush 3YB-120

3G-420

(3T-221)



Further parts see page

- Rod control (1121-U60-C or 1121-U61-C) 3YA-160
- Bearing bush (H-dimension Cam > 23) 3YB-120
- Spare key 12B-140

Swinghandle and escutcheon polyamide black, with round cylinder with stainless steel cap and shutter, shaft zinc die zinc plated, fixing material m.s. zinc plated, with seal

keyed EK 333

1240-U1

keyed different

1240-U2

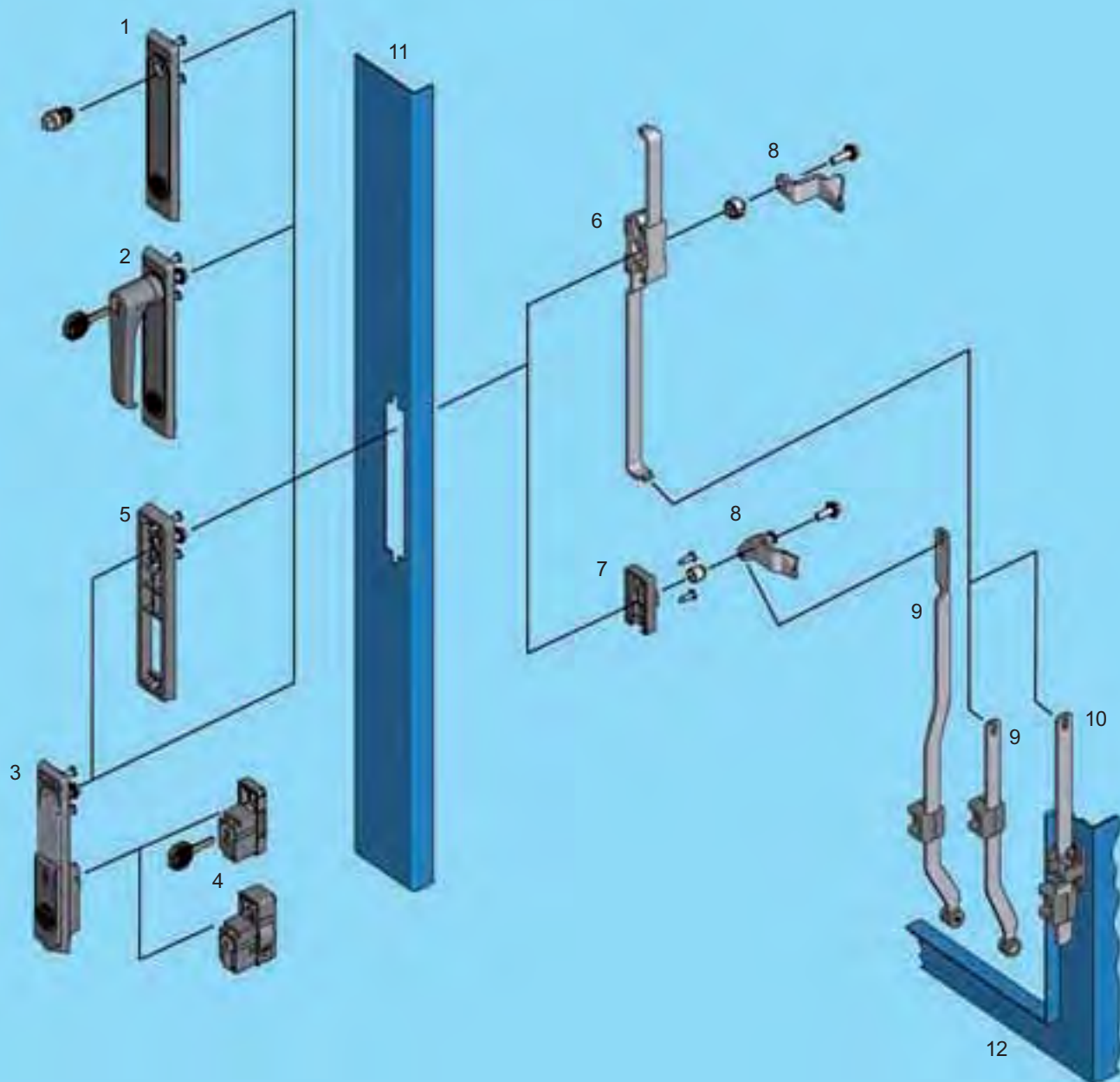
Swinghandle and Escutcheon Program 2100

Info

1 Quarter turns

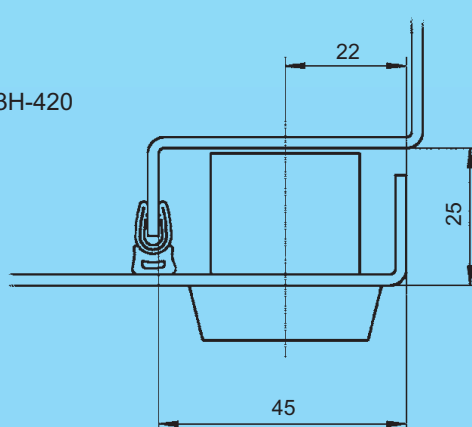
2 Rod controls

3 Locking systems

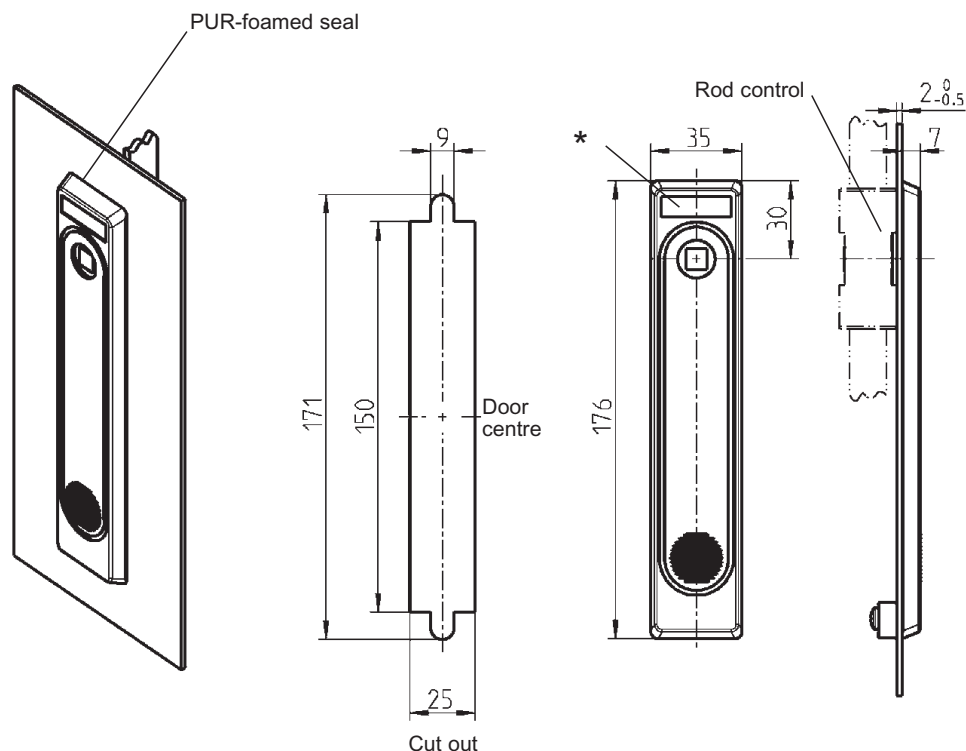
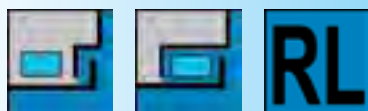


- 1 Escutcheon with insert
- 2 Escutcheon with handle
- 3 Swinghandle
- 4 Locking set
- 5 Adapter frame
- 6 Rod control
- 7 Bearing bush
- 8 Cam
- 9 Rod (inside the gasketing)
- 10 Rod (outside the gasketing)
- 11 Door
- 12 Cabinet/frame

3H-120
3H-220
3H-320, 3H-420



3H-100



Escutcheon polyamide black, fixing material m.s. zinc plated, with seal

for square, triangular, Daimler-Benz, slot	2150-U1
for double bit with mask	2150-U2
for FIAT	2150-U3

Insert zinc die chrome pl., fixing material m.s. zinc pl.

Square 6	1121-U11	Double bit 3**	1121-U16
Square 7	1121-U12	Double bit 5**	1121-U17
Square 8	1121-U13	Square female 8	1121-U167
Triangular 6,5 CNOMO	1121-U169	Daimler Benz	1121-U18
Triangular 7	1121-U14	FIAT	1121-U24
Triangular 8	1121-U15	Slot 2 x 4	1121-U123

* Logo recess: 27 x 8 x 0,5
Multicolour print possible

** in polyamide on request

Further parts see page

– Key	12B-120
– Rod control	3YA-520
	3YA-540
– Bearing bush	3YB-140

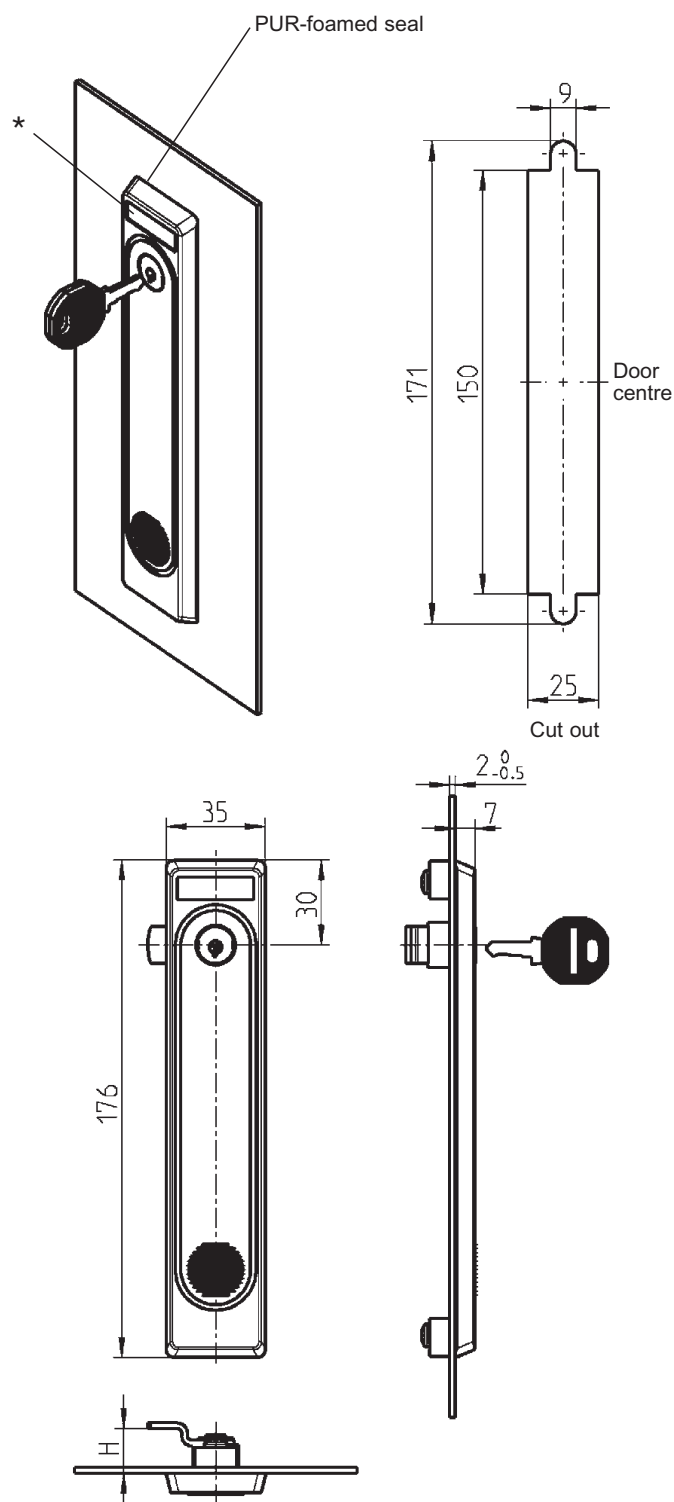
Accessories



Transport safety device polyamide black
for double bit insert

1121-32

Escutcheon PROGRAM 2100



Escutcheon polyamide black, round cylinder zinc die,
fixing material m.s. zinc pl., with seal

H-dimension 4	LH version	RH version
keyed different	2150-U04	2150-U04-01
keyed alike 2233X	2150-U05	2150-U05-01
H-dimension 10	LH version	RH version
keyed different	2150-U06	2150-U06-01
keyed alike 2233X	2150-U07	2150-U07-01
H-dimension 16	LH version	RH version
keyed different	2150-U08	2150-U08-01
keyed alike 2233X	2150-U09	2150-U09-01



* Logo recess: 27 x 8 x 0,5
Multicolour print possible

Turn = 90°

Further parts see page
– Spare key

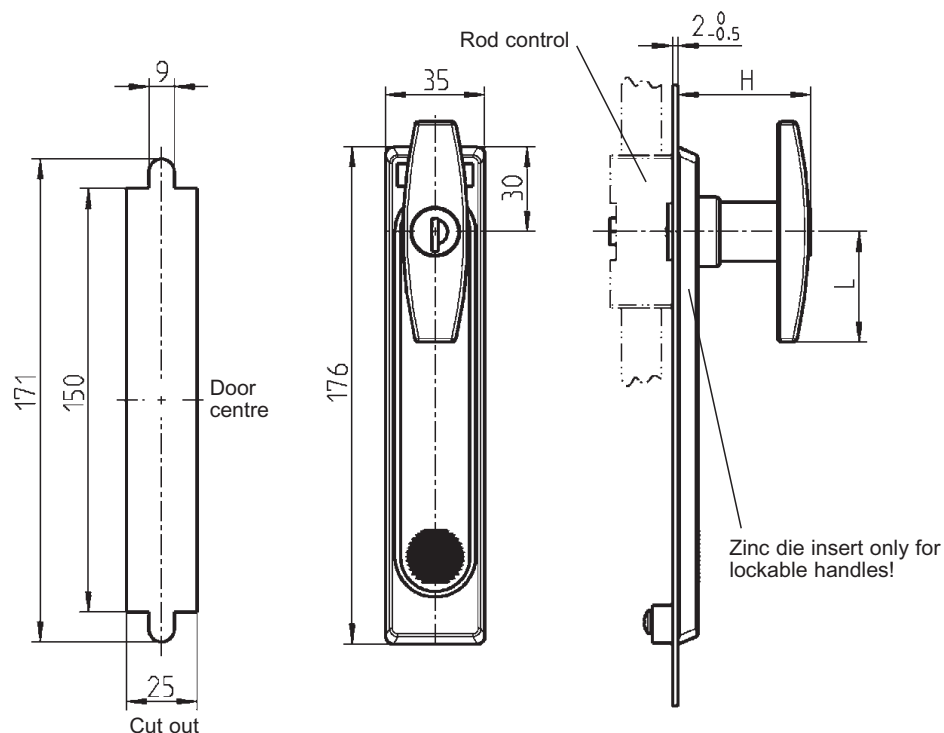
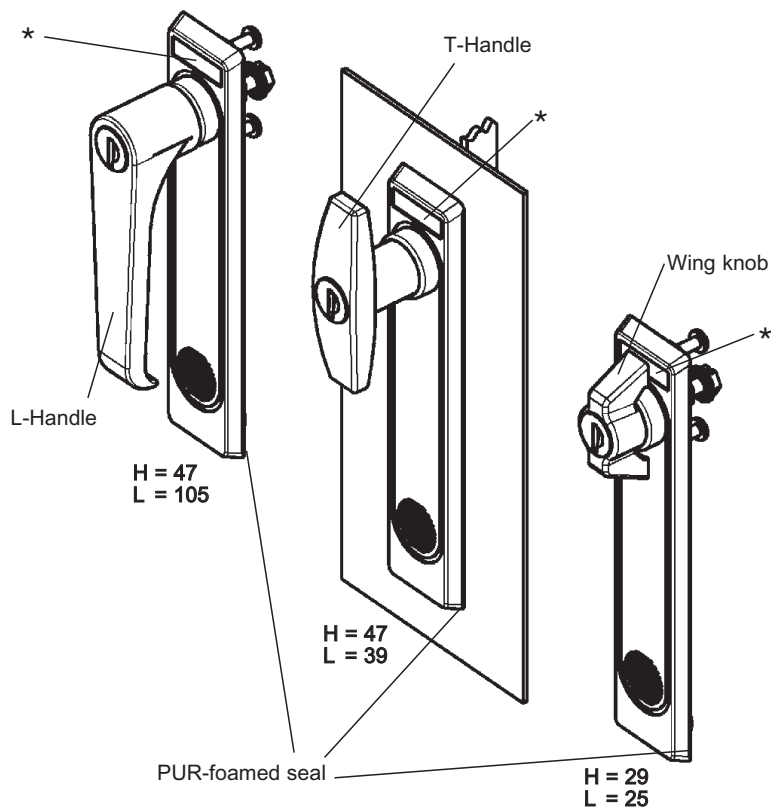
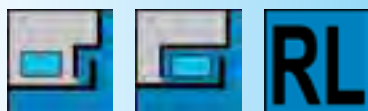
12B-140

3H-160

(3D-150)

Escutcheon with handle PROGRAM 2100

Beschlagteile



* Logo recess: 27 x 8 x 0,5
Multicolour print possible

** in polyamide on request

Further parts see page

- Spare key 12B-140
- Rod control 3YA-520
- Bearing bush 3YA-540
- Dust cap 3YB-140
- for T-handle 1C-340

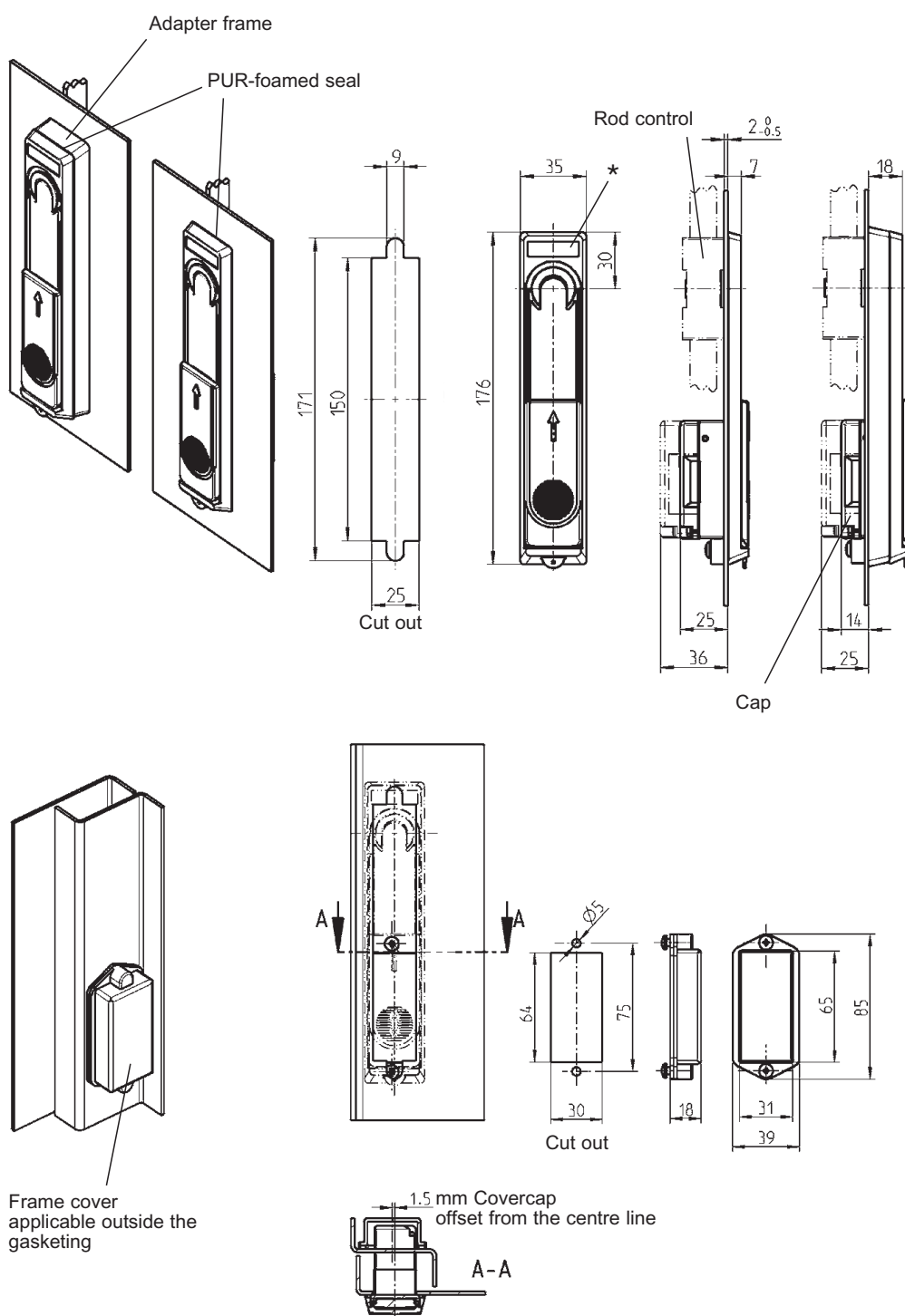
Escutcheon polyamide GF black, with handle zinc die black powder coated, round cylinder with stainless steel cap and shutter, one key silver steel with grip polyamide GF black, fixing material m.s. zinc pl., with seal

	non locking	keyed	keyed different
		EK 333	
Wing knob	2153-U9	2153-U10	2153-U11
T-Handle	2153-U6	2153-U7	2153-U8
L-Handle	2153-U3	2153-U4	2153-U5
Prepared for KABA-cylinder type 1036 with standard locking and / or locking systems			on request

3H-220

(3D-180)

Swinghandle PROGRAM 2100



Note:
Swinghandle without locking set

* Logo recess: 27 x 8 x 0,5
Multicolour print possible

Further parts see page

- Locking set 3XA-120
3XA-140
- Locking set ELM Chapter 11
- Rod control 3YA-520
3YA-540
- Bearing bush 3YB-140

Swinghandle polyamide black, handle zinc die chrome pl.,
fixing material m.s. zinc pl., with seal

Sliding dust cap polyamide black 2100-U1

Sliding dust cap zinc die black powder coated 2100-U2

Adapter frame polyamide black, adapter cast steel
fixing material m.s. zinc pl.

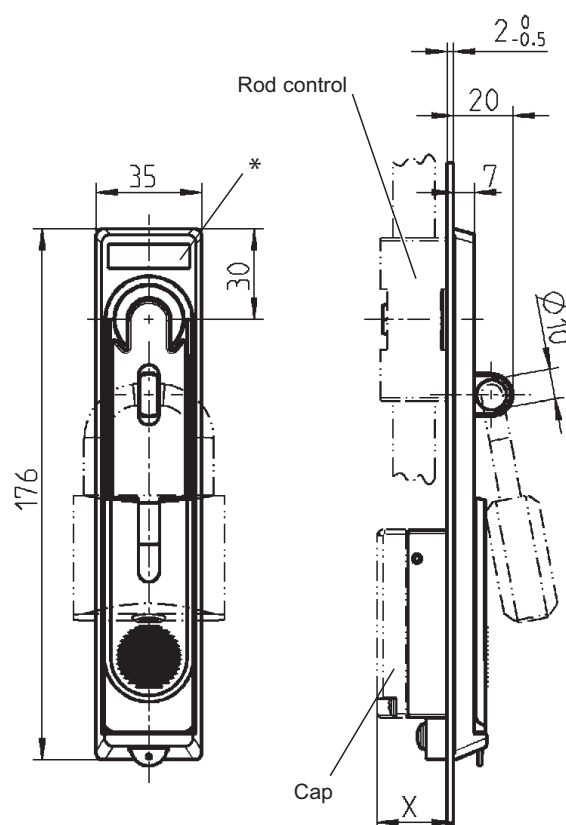
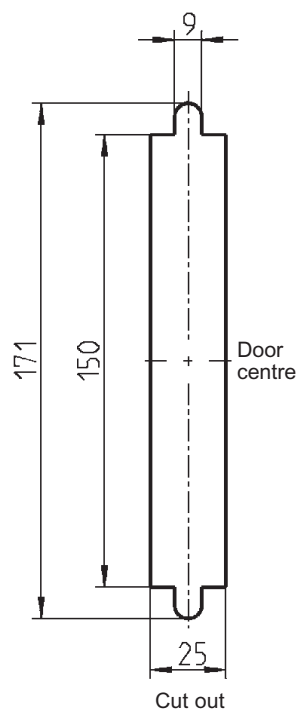
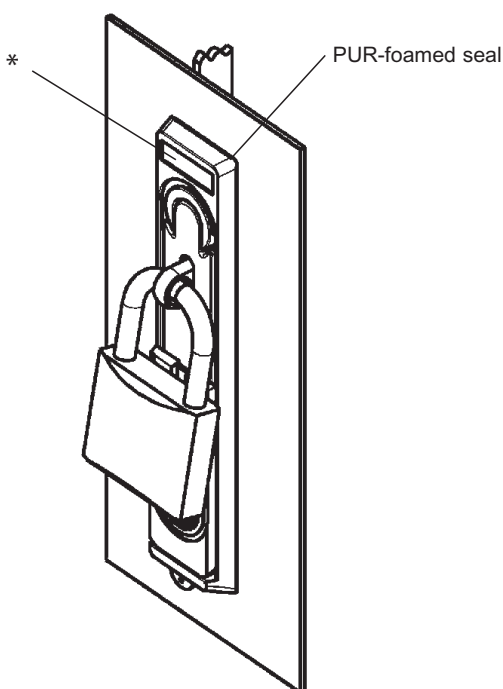
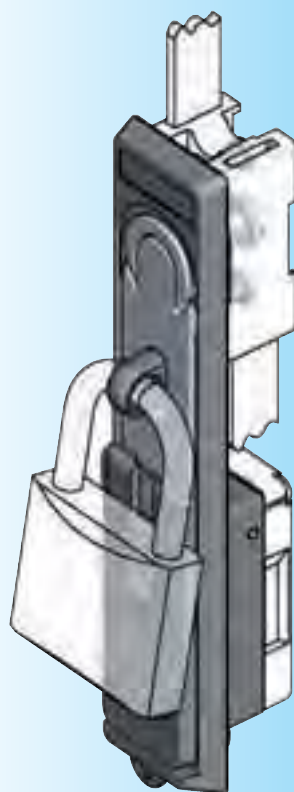
2100-U59

Frame cover polyamide black, fixing material m.s. zinc pl.
for RH and LH version, with seal

2100-U31

3H-320

(3D-220; 3D-240)



(3D-260)

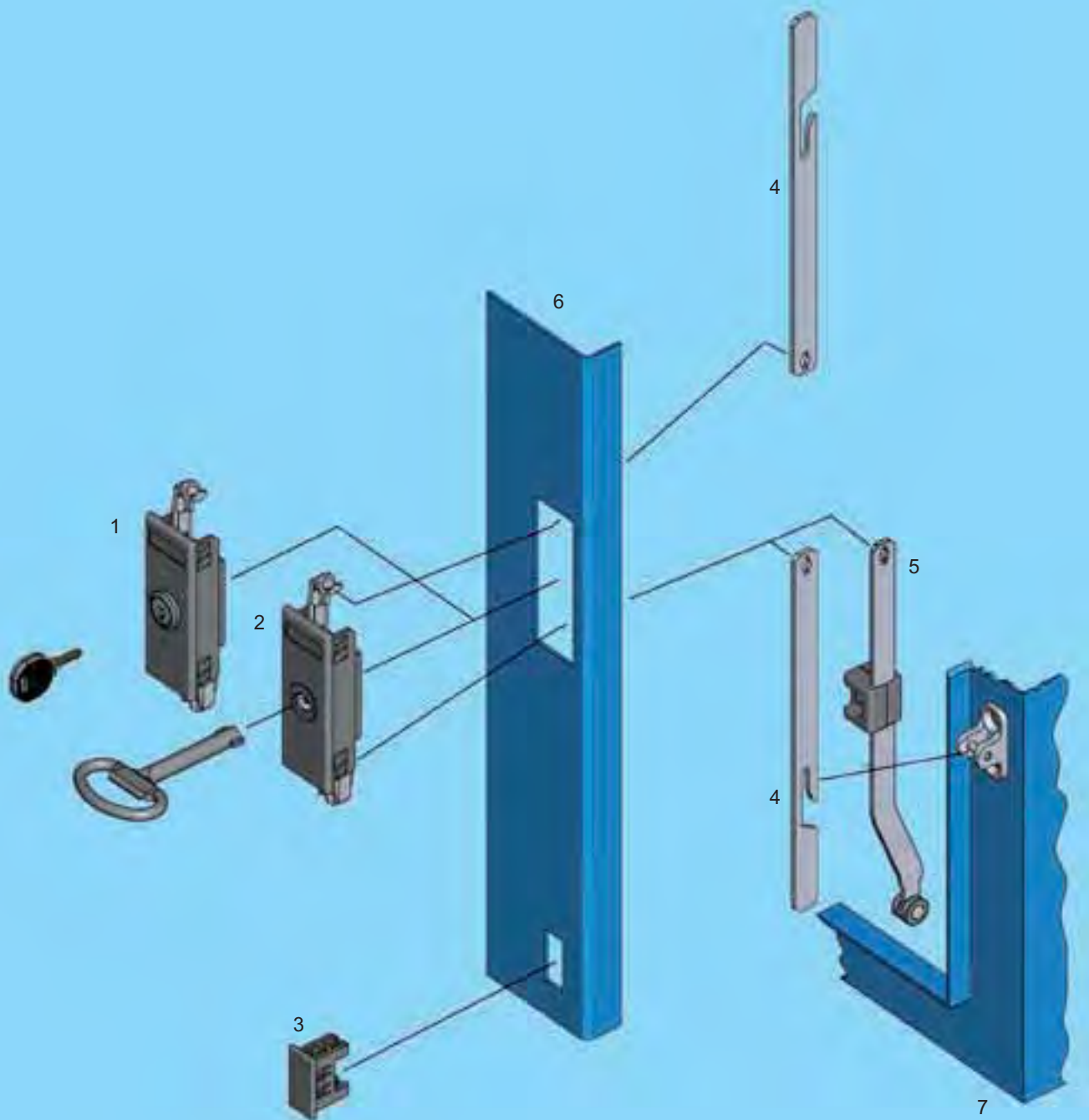
Escutcheon (clip in) Program 2300

Info

1 Quarter turns

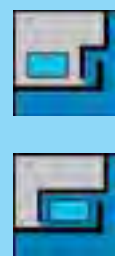
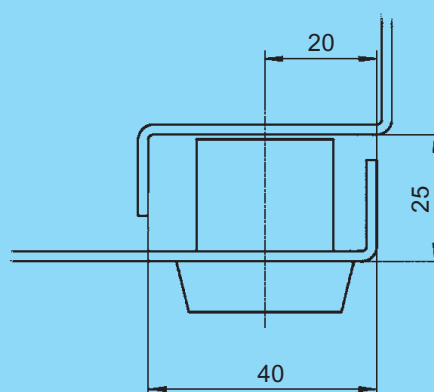
2 Rod controls

3 Locking
systems

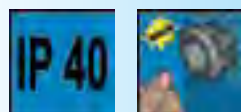
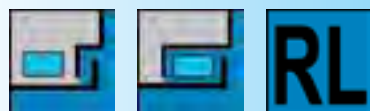


- 1 Escutcheon with round cylinder
- 2 Escutcheon with insert
- 3 Rod guide
- 4 Rod (outside the gasketing)
- 5 Rod (inside the gasketing)
- 6 Door
- 7 Cabinet/frame

3J-120
3J-120



3J-100



* Cavity: 27 x 8 x 0,5
Multicolour print possible

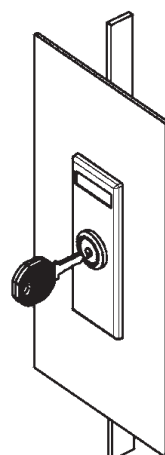


Further parts see page

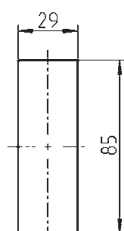
– Key 12B-120
– Spare key 12B-140
– Rod

 outside 3ZA-620

 inside 3ZB-120
3ZB-220

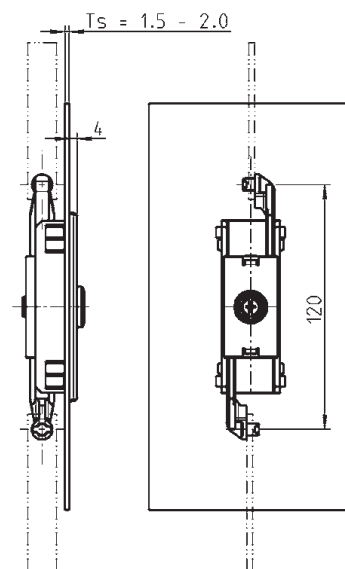
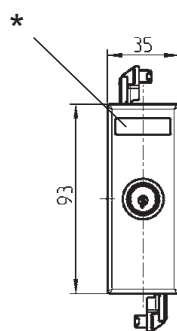


Turn = Stroke
135° = 25 mm



Cut out

Door
centre



Escutcheon polyamide black, rods zinc die, fixing material m.s. zinc plated with round cylinder with stainless steel cap and shutter

keyed different	2300-U15
keyed alike 2233X	2300-U14

Escutcheon polyamide black, with mask for double bit, rods zinc die, fixing material m.s. zinc plated with insert zinc die chrome plated

Double bit 3	2300-U2
Double bit 5	2300-U3

Escutcheon polyamide black, rods zinc die, fixing material m.s. zinc plated

(for following inserts)	2300-U1
-------------------------	---------

Insert zinc die chrome plated

Square 6	2300-U5
Square 7	2300-U6
Square 8	2300-U7
Triangular 7	2300-U8
Triangular 8	2300-U9
Daimler Benz	2300-U10
Slot 2 x 4	2300-U11
Double bit 3	2300-U12
Double bit 5	2300-U13

Assembling

1000-990

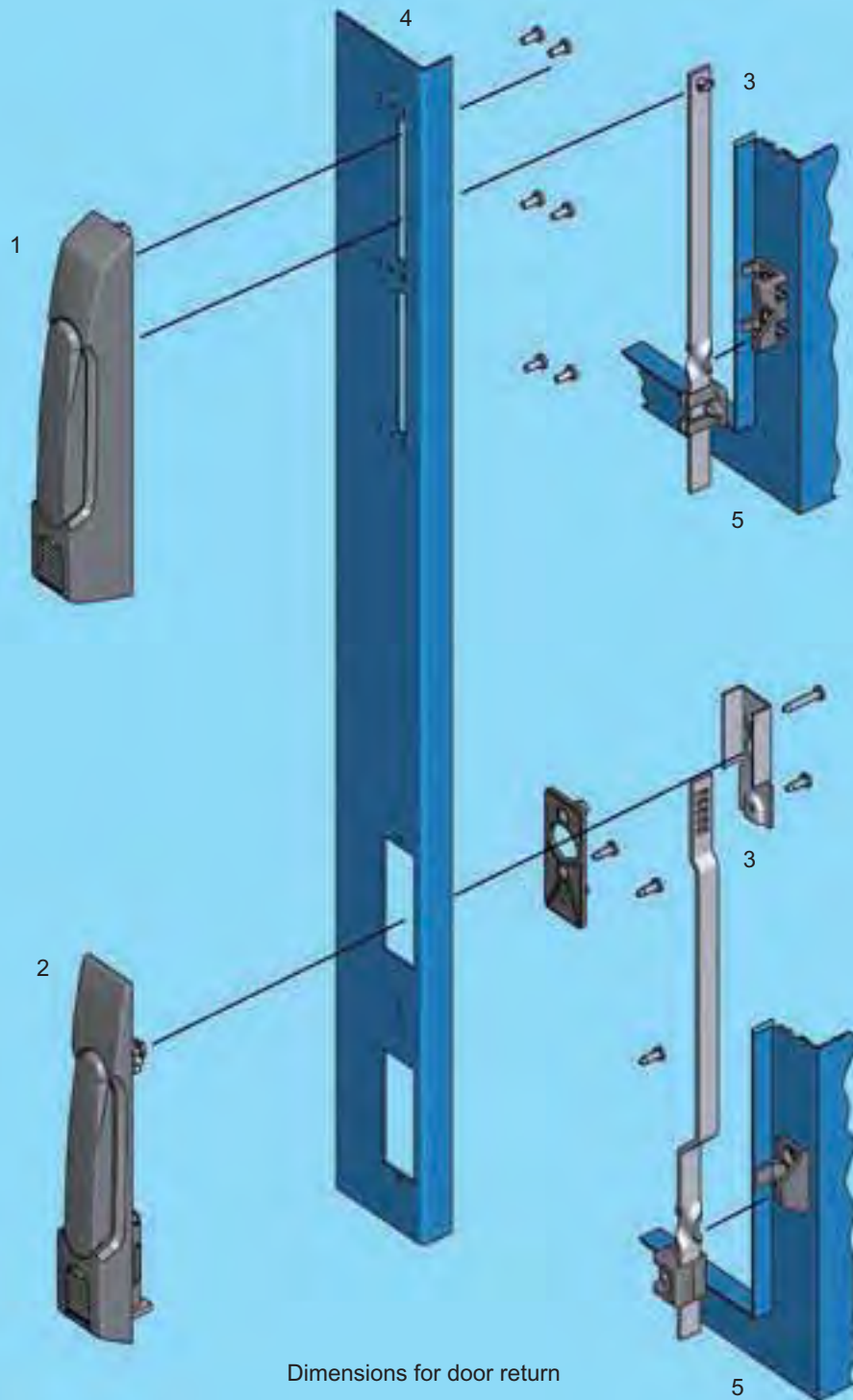
Swinghandle Program 2400

Info

1 Quarter turns

2 Rod controls

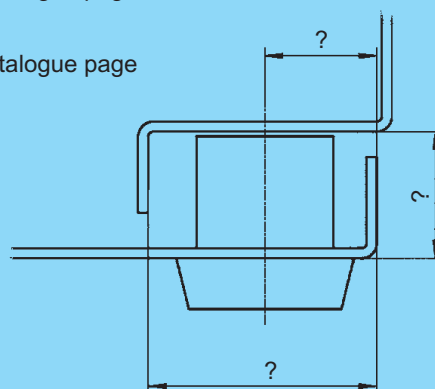
3 Locking
systems



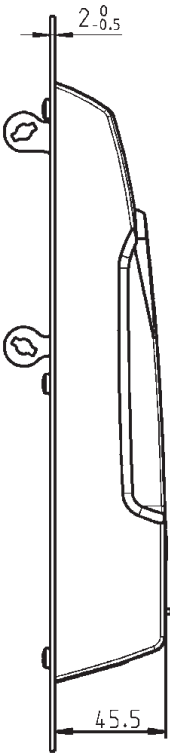
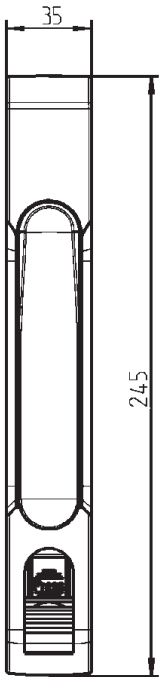
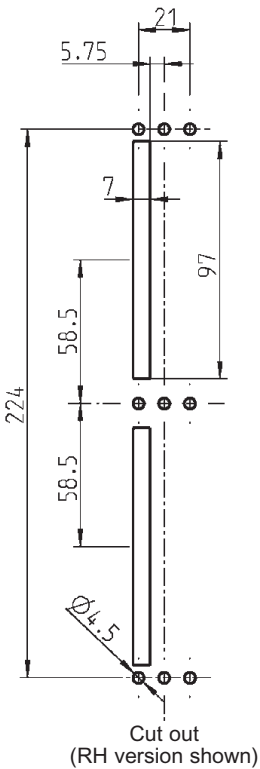
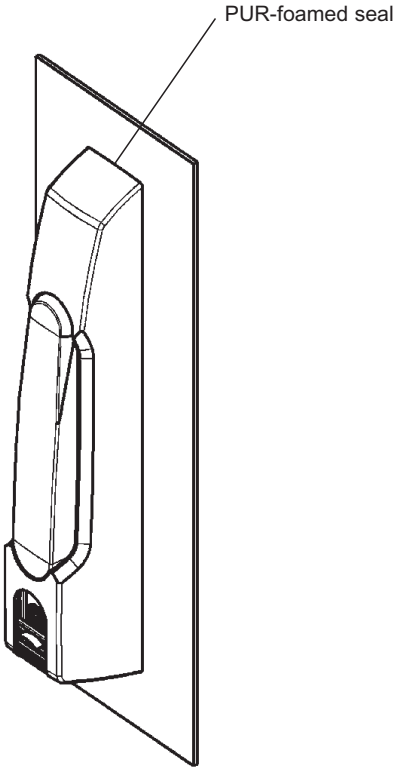
Dimensions for door return
for 1 = see catalogue page
3ZA-720
for 2 = see catalogue page
3ZA-820

- 1 Swinghandle
- 2 Swinghandle
- 3 Rod
- 4 Door
- 5 Cabinet/frame

3K-120
3K-220



3K-100



Turn = Stroke
90° = 16 mm

Multicolour print possible

Further parts see page

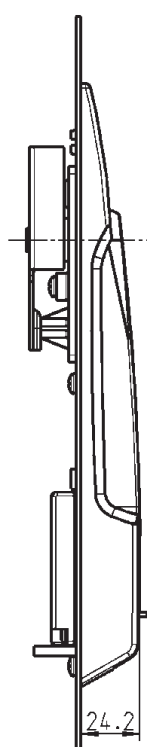
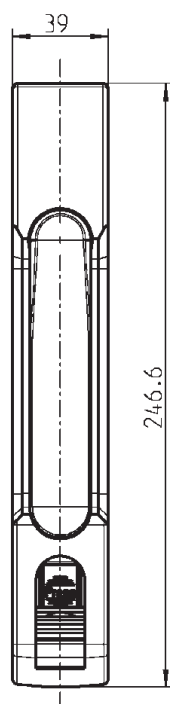
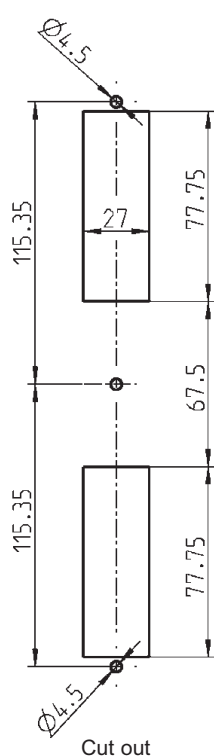
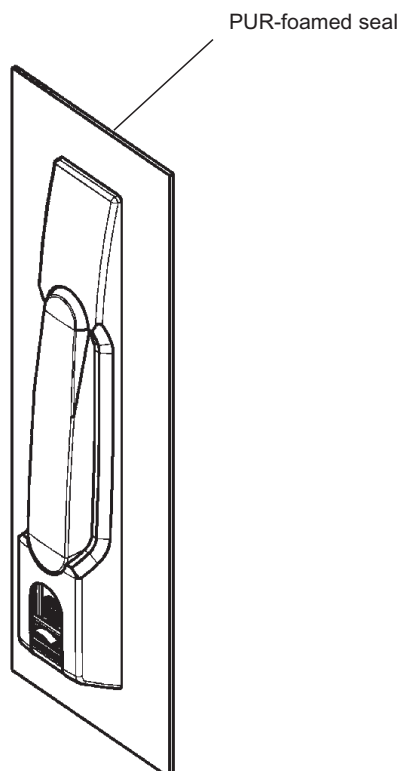
- Locking set 3XA-220
- Rod 3ZA-720

outside

3K-120
(3N-220)

Swinghandle with push button (2100-U56) polyamide black, lock zinc die, fixing material m.s. zinc plated, with seal	
RH	2400-U1
LH	2400-U2

Swinghandle PROGRAM 2400



Turn = Stroke
90° = 16 mm



Multicolour print possible

Further parts see page

- Locking set 3XA-120
- without push button 3XA-140
- with push button 3XA-240
- Locking set ELM Chapter 11
- Rod
- outside 3ZA-820

Swinghandle with push button (2100-U56) polyamide black,
lock zinc die, fixing material m.s. zinc plated, with seal

with push button	2400-U3
without push button	2400-U4

3K-220

(3N-260)

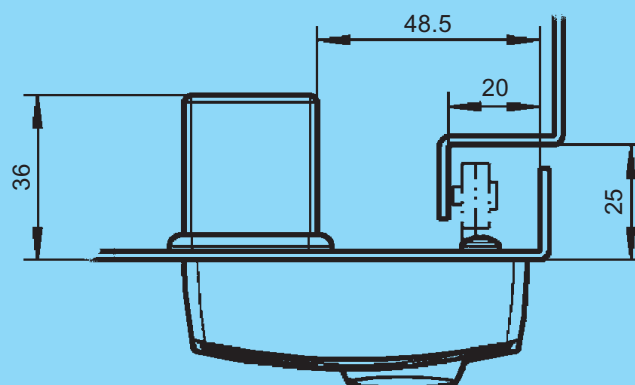
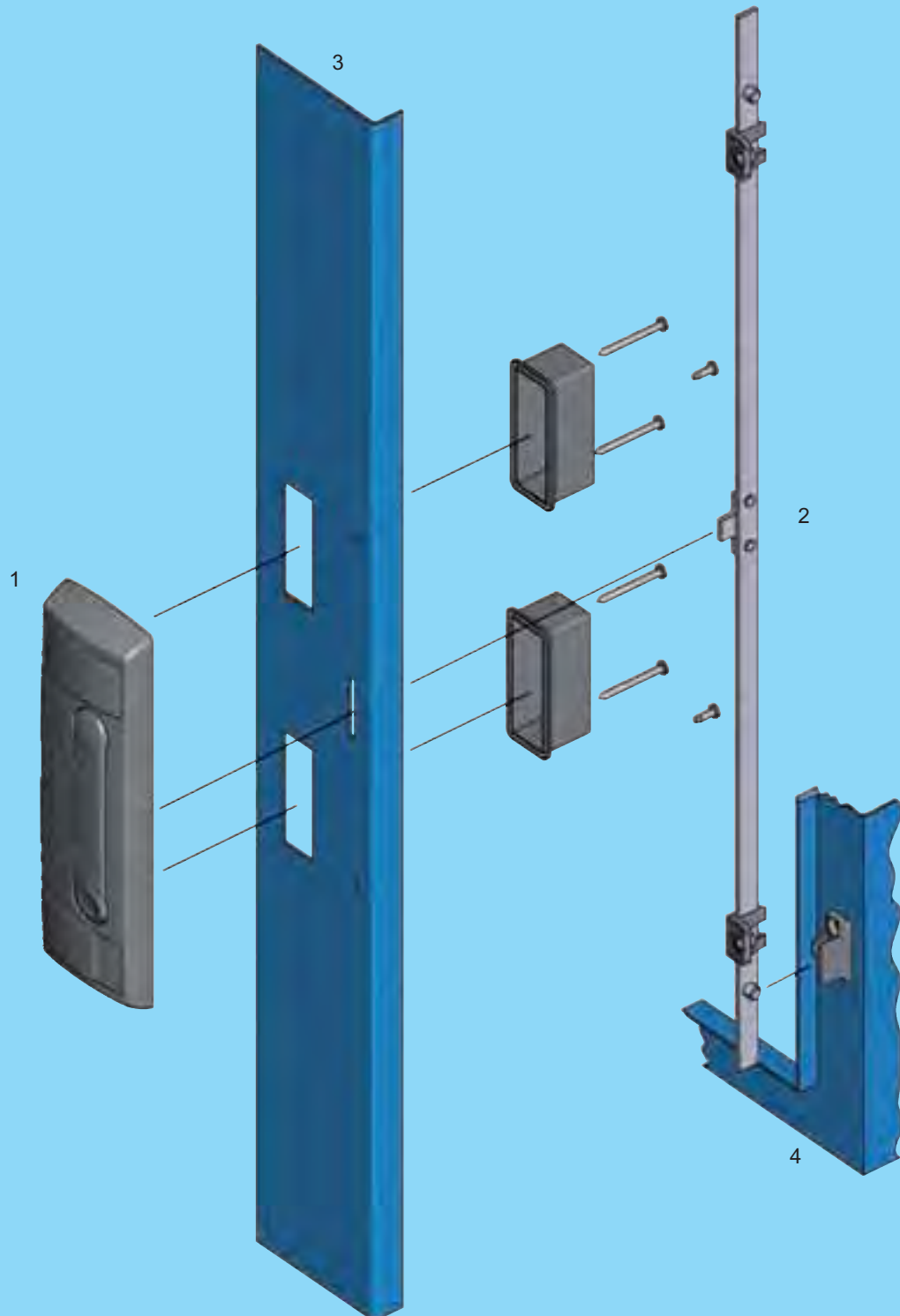
Swinghandle Program 2600

Info

1 Quarter turns

2 Rod controls

3 Locking
systems

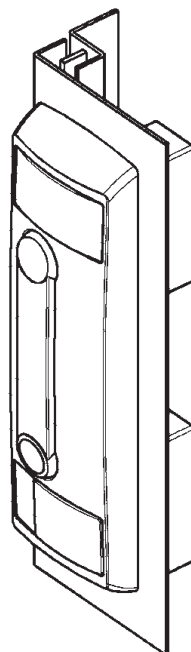


3L-120

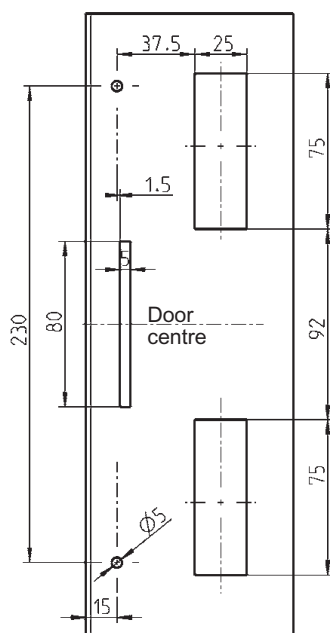


3L-100

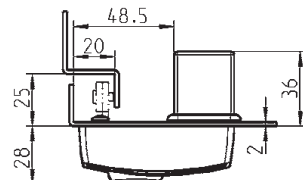
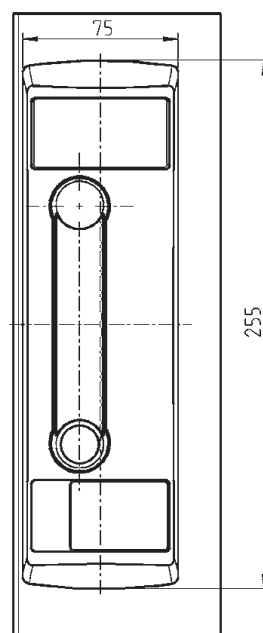
- 1 Swinghandle
- 2 Rod
- 3 Door
- 4 Cabinet/frame



Turn = Stroke
135° = 23,5 mm



Cut out



Bending area

Locking system for small bending area

Dust protection for cylinder via integrated sliding cover

Logo plate exchangeable.

Easy changing of hinge side (LH - RH)

Logo-plate and sliding cover change places, handle will be removed from outside and changed

Application for very small bending areas

Further parts see page

- Locking set 3XA-120
- 3XA-140
- Rod 3ZA-920

Swinghandle, handle, escutcheon, dust cap, logo plate polyamide black, shaft zinc die zinc plated, fixing material m.s. zinc plated, with seal

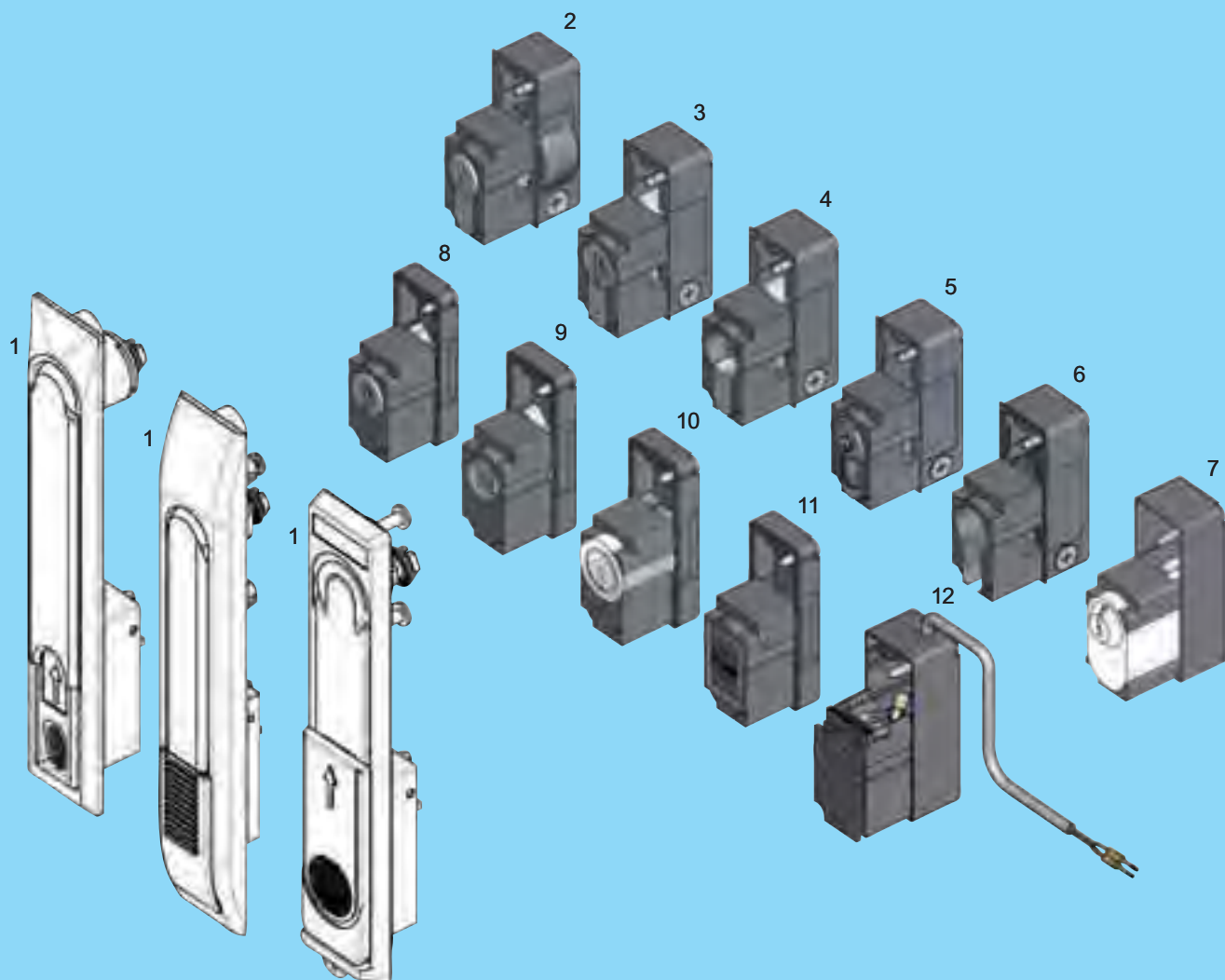
2600-U1

3L-120

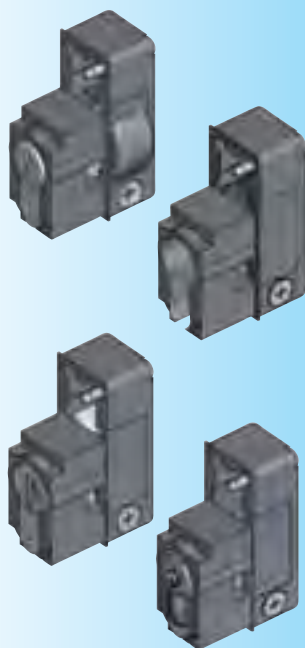
(3S-120)

Locking sets

Program 1150, 1180, 1190, 2100, 2400, 2600



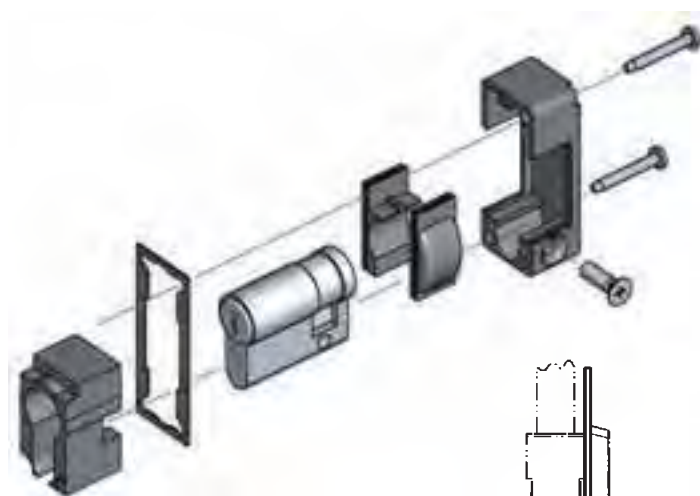
- 1 Swinghandle program 1150, 1180, 1190, 2100, 2400, 2600
- 2 Locking set with profile half cylinder according to DIN 18252
- 3 Locking set with profile half cylinder with round cylinder
- 4 Locking set with profile half cylinder with insert
- 5 Locking set with profile half cylinder with round cylinder and push button
- 6 Locking set for profile half cylinder according to DIN 18252 is provided by the customer
- 7 Locking set for ASSA-cylinder is provided by the customer
- 8 Locking set with round cylinder
- 9 Locking set with insert
- 10 Locking set for KABA-cylinder is provided by the customer
- 11 Locking set with push button
- 12 Locking set ELM see chapter 11



1109-U52 and 1109-U53.
In the unlocked position the handle operates by pressing the push button

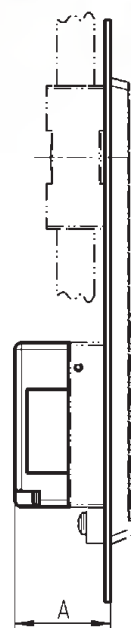


2100-U6
for ASSA-cylinder. Attention!
ASSA-cylinder and 2 fixing screws
M5x8 are not included



PROGRAM. . . . Dimension A

1150		.42
1180		.32
1190		.29,5
2100		.36
2400		.23
2600		.36



Locking set polyamide black with or without profile half cylinder or ASSA-cylinder, fixing material m.s. zinc pl., with seal

Locking set profile half cylinder according to DIN 18252, brass nickel plated with 3 keys

keyed different	1089-U5	keyed alike 110319 N	1089-U6
Profile half cylinder (from customer)			2100-U11

Locking set profile half cylinder with cylinder zinc die with stainless steel cap and shutter

keyed different	1109-U50	keyed EK333	1109-U51
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Locking set profile half cylinder with push button, round cylinder zinc die chrome plated

keyed different	1109-U52	keyed alike 2233X	1109-U53
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Locking set profile half cylinder with insert, zinc die chrome plated

Square 6	1109-U18	Double bit 3	1109-U34
Square 7	1109-U19	Double bit 5	1109-U35
Square 8	1109-U20	Hexagon female 10	1109-U27
Square 8 slotted	1109-U21	Square female 6	1109-U28
Triangular 6,5 CNOMO	1109-U22	Square female 8	1109-U29
Triangular 7	1109-U23	Daimler Benz	1109-U30
Triangular 8	1109-U24	Slot 1,2 x 3	1109-U31
Triangular 9	1109-U25	Slot 2 x 4	1109-U32
Triangular 10	1109-U26	Crown type	1109-U33
		Eastern Europe Ø 13	1109-U58

Locking set for ASSA-cylinder is provided by the customer (without seal)

2100-U6

Further parts see page
– Key 12B-120

Program 1150
– Swinghandle 1151 3C-420
3C-440

Program 1180
– Swinghandle 3E-120
up to 3E-320

Program 1190
– Lifthandle 3F-120

Program 2100
– Swinghandle 3H-320
up to 3H-420

Program 2400
– Swinghandle 3K-220

Program 2600
– Swinghandle 3L-120

Locking set

PROGRAM 1150, 2100, 2400, 2600

All round cylinders and inserts are spring loaded

PROGRAM. . . . Dimension A

1150		.31,5
2100		.25
2400		.20
2600		.36



2100-U54

Prepared for KABA cylinder.
Attention! KABA-cylinder and 2 counter sunk screws M2,3x8 are not included!

Locking set polyamide black with round cylinder or insert,
fixing material m.s. zinc plated, with seal

Locking set round cylinder zinc die with stainless steel cap and shutter

keyed EK333	2100-U48	keyed different	2100-U49
Assembling set for KABA cylinder type 1036 (cylinder from customer)			2100-U54

Locking set insert zinc die chrome plated

Square 6	2100-U32	Hexagon female 10	2100-U41
Square 7	2100-U33	Square female 6	2100-U42
Square 8	2100-U34	Square female 8	2100-U43
Square 8 slotted	2100-U35	Daimler Benz	2100-U44
Triangular 6,5 CNOMO	2100-U36	FIAT version	2100-U53
Triangular 7	2100-U37	Slot 1,2 x 3	2100-U45
Triangular 8	2100-U38	Slot 2 x 4	2100-U46
Triangular 9	2100-U39	Crown type	2100-U47
Triangular 10	2100-U40	Eastern Europe Ø 13	2100-U58
Double bit 3	2100-U50	Push button	2100-U57
Double bit 5	2100-U51		

Further parts see page

– Key 12B-120

Program 1150

– Swinghandle 1151 3C-420
3C-440

Program 2100

– Swinghandle up to 3H-320
3H-420

Program 2400

– Swinghandle 3K-220

Program 2600

– Swinghandle 3L-120

3XA-140

(3D-240)

All round cylinders and inserts are spring loaded



1109-B25 and 1109-B26.
In the unlocked position the handle operates by pressing the push button



Further parts see page
– Key 12B-120
Program 2400
– Swinghandle 3K-120

Locking set polyamide black, insert zinc die chrome plated, fixing material m.s. zinc plated			
Profile half cylinder DIN 18 252 brass nickel pl. with 3 keys		Round cylinder	
keyed different	2100-B9	keyed EK 333	2100-B30
keyed 110319	2100-B11	keyed different	2100-B31
(Master key system on request)		Insert	
Profile half cylinder (from the customer)		Square 6	2100-B14
from the customer	2100-06-aa	Square 7	2100-B15
Profile half cylinder with cylinder zinc die with stainless steel cap and shutter		Square 8	2100-B16
keyed different	1109-B24	Square 8 slotted	2100-B17
keyed EK 333	1109-B16	Triangular 6,5 CNOMO	2100-B18
Profile half cylinder with push button, round cylinder zinc die chrome plated		Triangular 7	2100-B19
keyed different	1109-B25	Triangular 8	2100-B20
keyed alike 2233X	1109-B26	Triangular 9	2100-B21
Profile half cylinder with insert		Triangular 10	2100-B22
Square 6	1109-B17	Double bit 3	2100-B32
Square 7	1109-B5	Double bit 5	2100-B33
Square 8	1109-B6	Hexagon female 10	2100-B23
Square 8 slotted	1109-B18	Square female 6	2100-B24
Triangular 6,5 CNOMO	1109-B7	Square female 8	2100-B25
Triangular 7	1109-B8	Daimler Benz	2100-B26
Triangular 8	1109-B9	FIAT version	2100-B34
Triangular 9	1109-B19	Slot 1,2 x 3	2100-B27
Triangular 10	1109-B20	Slot 2 x 4	2100-B28
Double bit 3	1109-B14	Crown type	2100-B29
Double bit 5	1109-B15	Eastern Europe Ø 13	2100-B36
Hexagon female 10	1109-B10	Push button	2100-U56
Square female 6	1109-B21		
Square female 8	1109-B22		
Daimler Benz	1109-B11		
Slot 1,2 x 3	1109-B12		
Slot 2 x 4	1109-B4		
Crown type	1109-B13		
Eastern Europe Ø 13	1109-B23		

Locking set

PROGRAM 1180, 1190, 2400

All round cylinders and inserts are spring loaded

PROGRAM.Dimension A

118021,5

119029,5

240020



Locking set polyamide black, insert zinc die chrome plated,
fixing material m.s. zinc plated

Round cylinder

keyed EK 333	2100-B30
keyed different	2100-B31

Insert

Square 6	2100-B14
Square 7	2100-B15
Square 8	2100-B16
Square 8 slotted	2100-B17
Triangular 6,5 CNOMO	2100-B18
Triangular 7	2100-B19
Triangular 8	2100-B20
Triangular 9	2100-B21
Triangular 10	2100-B22
Double bit 3	2100-B32
Double bit 5	2100-B33
Hexagon female 10	2100-B23
Square female 6	2100-B24
Square female 8	2100-B25
Daimler Benz	2100-B26
FIAT version	2100-B34
Slot 1,2 x 3	2100-B27
Slot 2 x 4	2100-B28
Crown type	2100-B29
Eastern Europe Ø 13	2100-B36
Push button	2100-U56

Further parts see page

– Key 12B-120

Program 1180

– Swinghandle up to 3E-120
3E-320

Program 1190

– Swinghandle 3F-120

Program 2400

– Swinghandle 3K-220

3XA-240

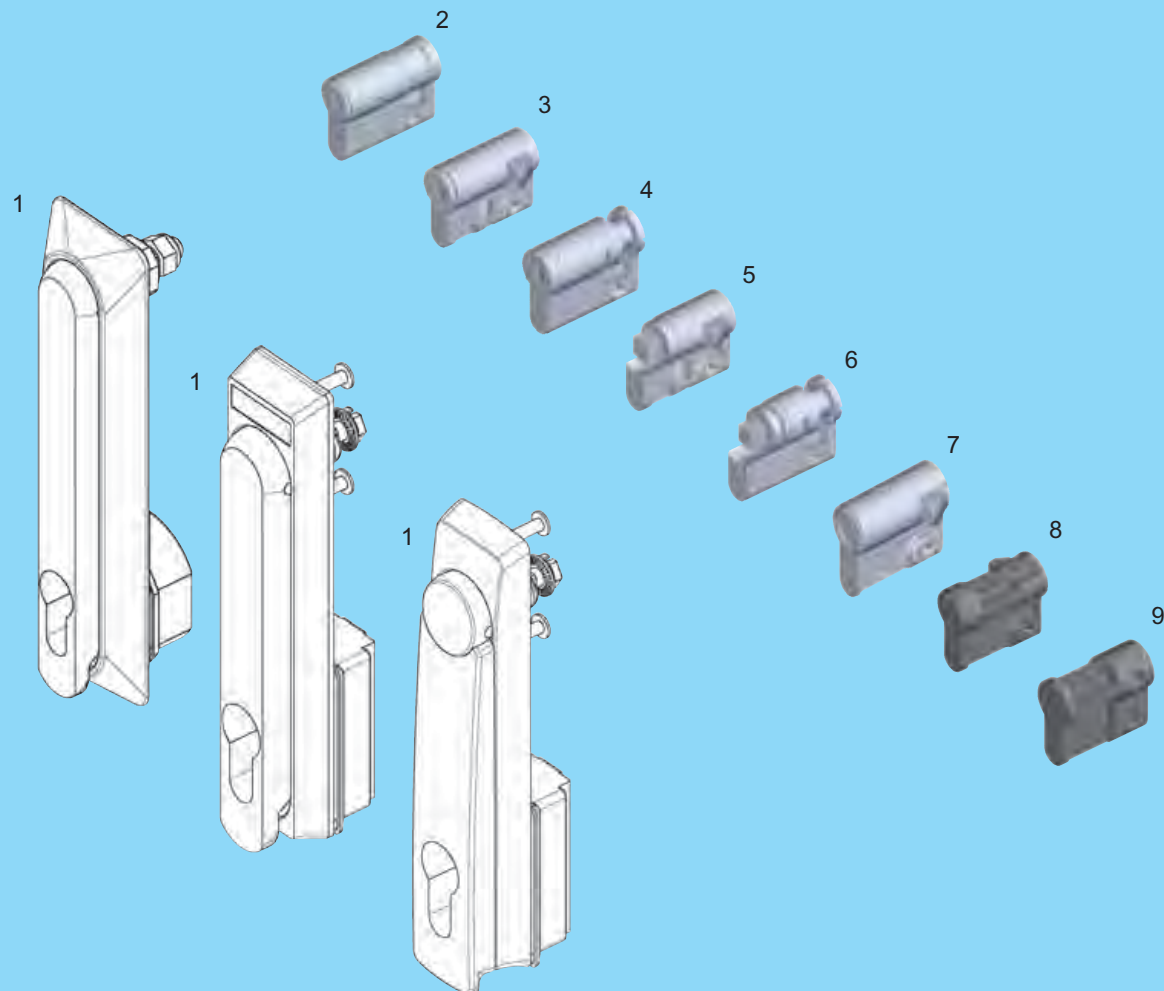
(3N-220)

Notes:

Locking sets

Profile half cylinder

Program 1107, 1125, 1150, 1225



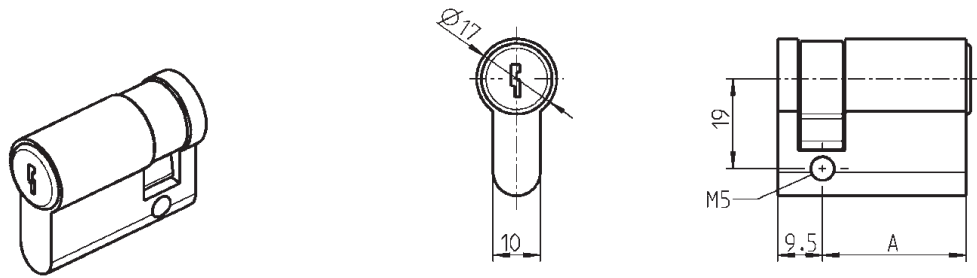
- 1 Swinghandle program 1107, 1125, 1150, 1225
- 2 Profile half cylinder DIN 18252
- 3 Profile half cylinder with spring loaded round cylinder
- 4 Profile half cylinder with round cylinder
- 5 Profile half cylinder with spring loaded insert
- 6 Profile half cylinder with insert
- 7 Profile half cylinder with spring loaded radial pin-push cylinder
- 8 Profile half cylinder with push button
- 9 Blind plug

3XB-100

Profile half cylinder

PROGRAM 1107, 1125, 1150, 1225

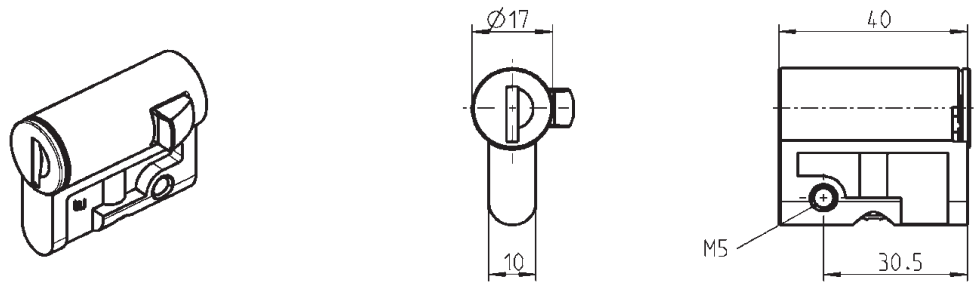
Profile half cylinder according to DIN 18252 (EN 1303)



Profile half cylinder according to DIN 18 252 brass nickel plated with 3 keys
Cam can be turned every 45°

keyed different	A = 30	1089-U1
keyed 110319 N	A = 30	1089-U2
(Master key system on request)		

EMKA profile half cylinder



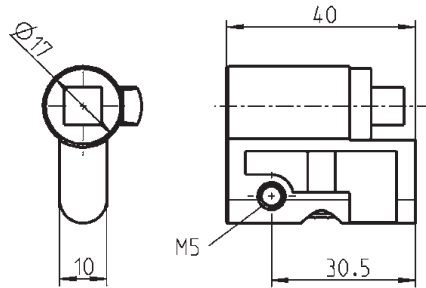
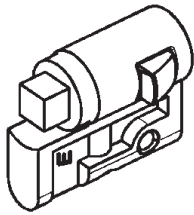
EMKA locking system with round cylinder zinc die chrome pl., with stainless steel cap and shutter
with one silver steel key with polyamide grip, black key removable only in locked position, spring loaded

keyed different	1109-U1-N
keyed EK 333	1109-U2-N

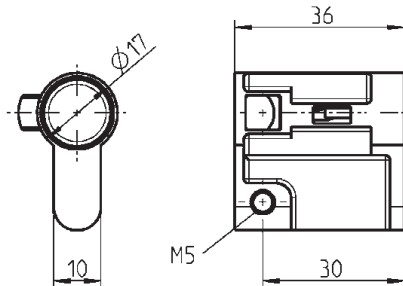
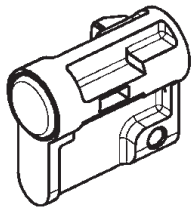
EMKA profile half cylinder with insert zinc die chrome plated,
spring loaded

Square 6	1109-U4-N
Square 7	1109-U5-N
Square 8	1109-U6-N
Square 8 slotted	1109-U7-N
Triangular 6,5 CNOMO	1109-U17-N
Triangular 7	1109-U8-N
Triangular 8	1109-U9-N
Double bit 3	1109-U10-N
Double bit 5	1109-U11-N
Hexagon female 8	1109-U12-N
Hexagon female 10	1109-U13-N
Square female 8	1109-U55-N
Slot 2 x 4	1109-U14-N
Daimler Benz	1109-U15-N
Eastern Europe Ø 13	1109-U54-N

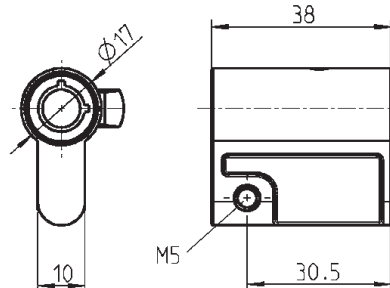
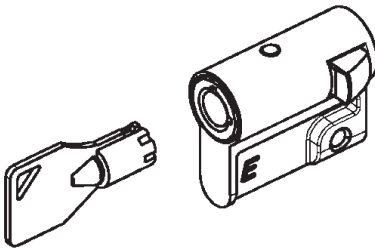
EMKA profile half cylinder with insert



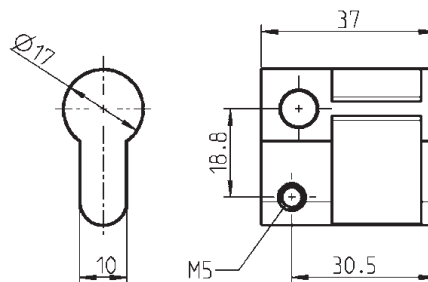
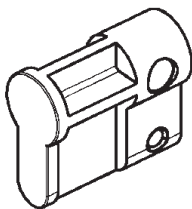
Push button-profile half cylinder



Radial pin-push half cylinder



Blind plug



Push button-profile half cylinder

Polyamide black, only in combination with swinghandle program 1125 and 1225

1109-U59

Radial pin-push cylinder zinc die chrome plated, locking cam is of slam type, spring loaded key is removeable in locked position, only

keyed 20001

1109-U60

keyed different

1109-U61

Spare key 20001

1108-U52

Spare key keyed different

1108-U52-V

Blind plug polyamide black, spring loaded ball m.s. blacked

with spring loaded ball

1109-U3

without spring loaded ball

1109-09-AA

Further parts see page

– Key 12B-120
– Spare key 12B-140

Program 1107

– Swinghandle 3A-120
up to 3A-320

Program 1125

– Swinghandle 3B-220
3B-420

Program 1150

– Swinghandle 1153 3C-320
– Swinghandle 1154 3C-220

Program 1225

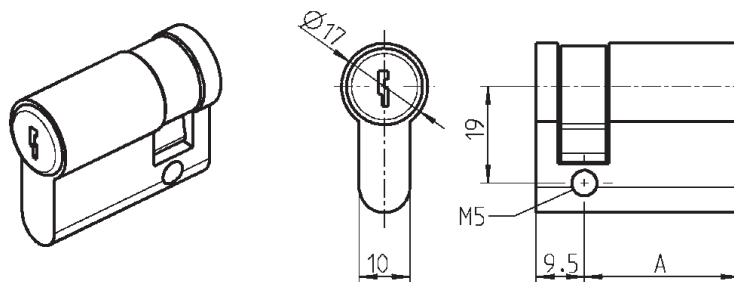
– Swinghandle 3G-220

3XB-120

(3A-580)

Profile half cylinder PROGRAM 1107, 1125, 1225

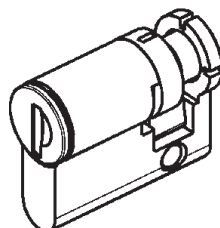
Profile half cylinder according to DIN 18 252 (EN 1303)



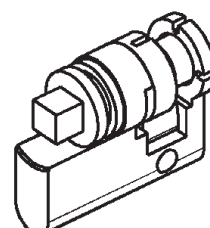
Profile half cylinder according to DIN 18 252
brass nickel pl. with 3 keys

keyed different	A = 30	1089-U1
keyed 110319 N	A = 30	1089-U2
(Master key system on request)		

EMKA profile cylinder
with round cylinder
360° turn



EMKA profile half cylinder
with insert
360° turn



EMKA profile half cylinder with round cylinder zinc die with stainless steel cap and shutter with one key silver steel with grip polyamide GF black, turn 360°.

keyed different or keyed EK 333 on request

EMKA profile half cylinder with insert zinc die chrome pl., turn 360°.

Inserts, e.g. square, triangular, double bit, slotted and more on request

Note:

For the swinghandles 1107-U22 (3A-360) and 1225-U60 (3G-320) only the profile half cylinders 1089-U1 or 1089-U2 can be used

Further parts see page

– Key 12B-120
– Spare key 12B-140

Program 1107

– Swinghandle 3A-360

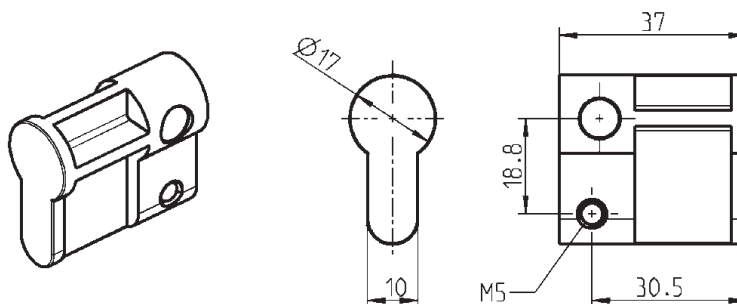
Program 1125

– Swinghandle 3B-320

Program 1225

– Swinghandle 3G-320

Blind plug



Blind plug

polyamide black

1109-09-AA

3XB-220

(3C-620)

Rod control

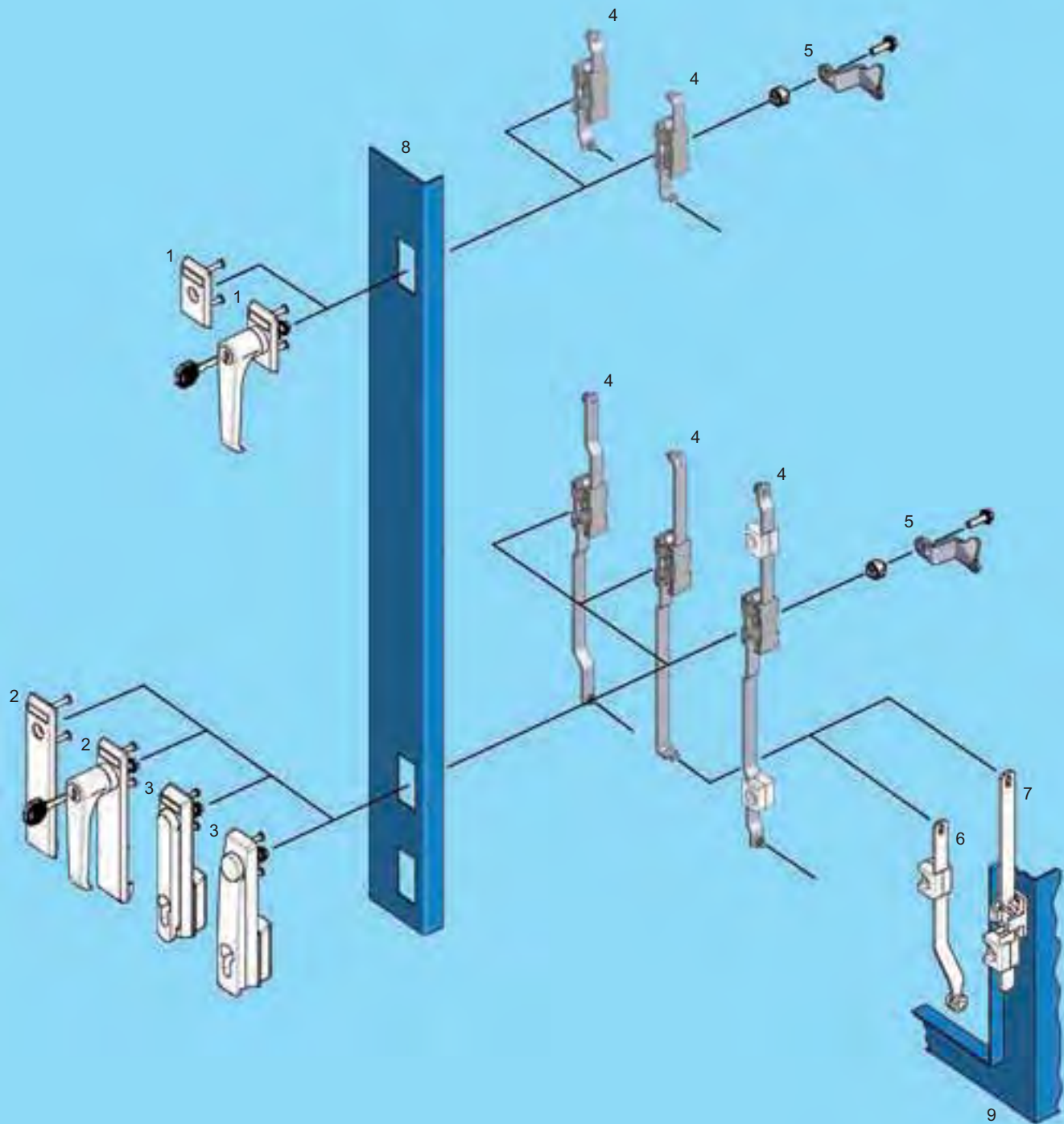
Program 1125, 1150, 1225, 2100

Info

1 Quarter turns

2 Rod controls

3 Locking systems



- 1 Escutcheon short
- 2 Escutcheon long
- 3 Swinghandle
- 4 Rod control
- 5 Cam
- 6 Rod (inside the gasketing)
- 7 Rod (outside the gasketing)
- 8 Door
- 9 Cabinet/frame

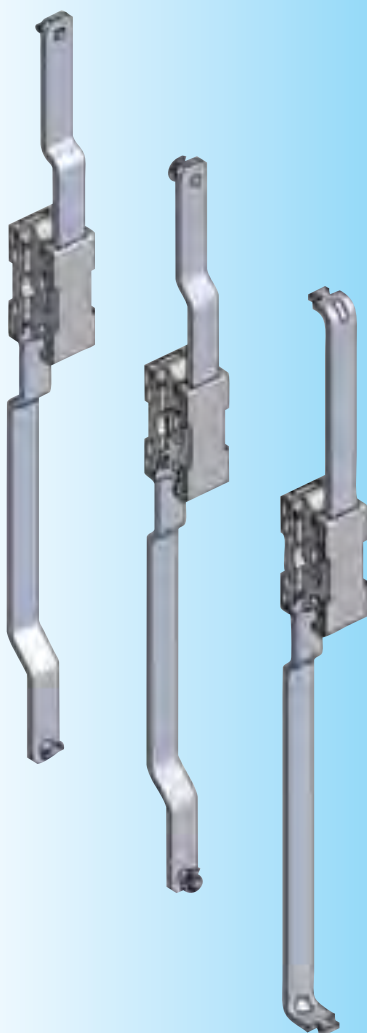
Program 1125, 1225
Program 1125, 1225, 2100
Program 1125, 1150, 1225, 2100
 3YA-120 to 3YA-540
 3YA-820



3YA-100

Rod control for flat rods PROGRAM 1125, 1150, 1225

Beschlagteile



Further parts see page

– Rods

– outside

– inside

– Earthing device

– Cam

Program 1125

– Escutcheon long

– Swinghandle

Program 1150

– Swinghandle 1153

Program 1225

– Escutcheon long

– Swinghandle

3ZA-120

3ZA-320

3ZB-120

3ZB-220

3YA-720

3YA-820

3B-120

3B-180

3B-220

3B-420

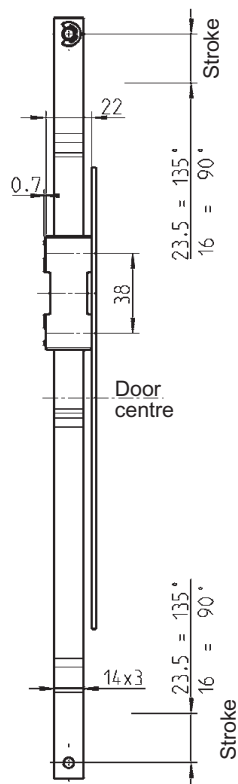
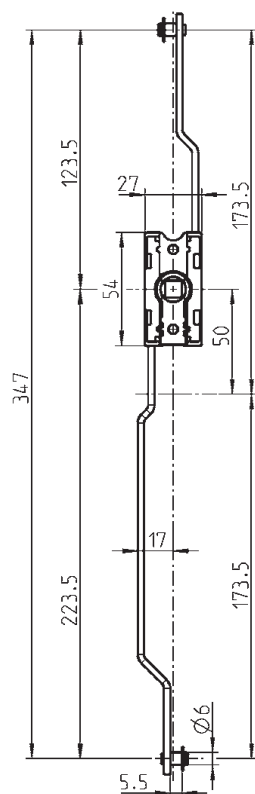
3C-320

3G-120

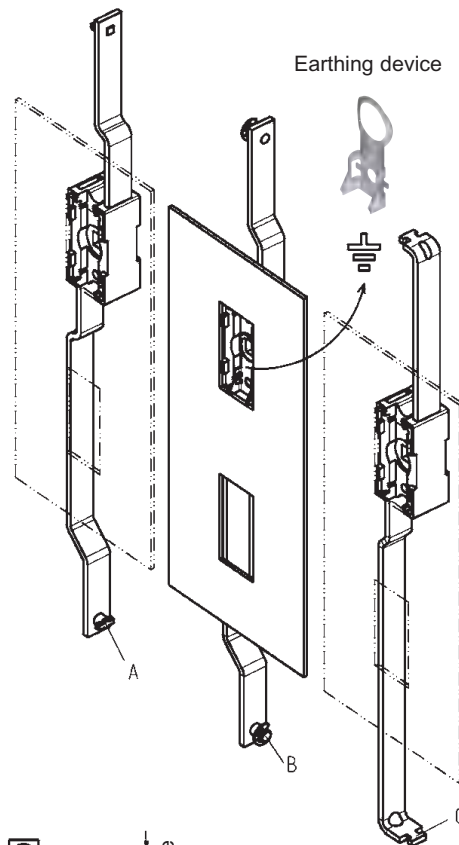
3G-180

3G-220

3G-420



Earthing device



Rod control: material on choice

Rod control box	Rod	Version		
		A	B	C
zinc die	m.s. zinc pl.	1121-U125-C	1121-U26-C	1121-U85-C
polyamide black	AISI 304	–	1121-U178-C	–
polyamide black	aluminium	–	1121-U38-C	1121-U86-C

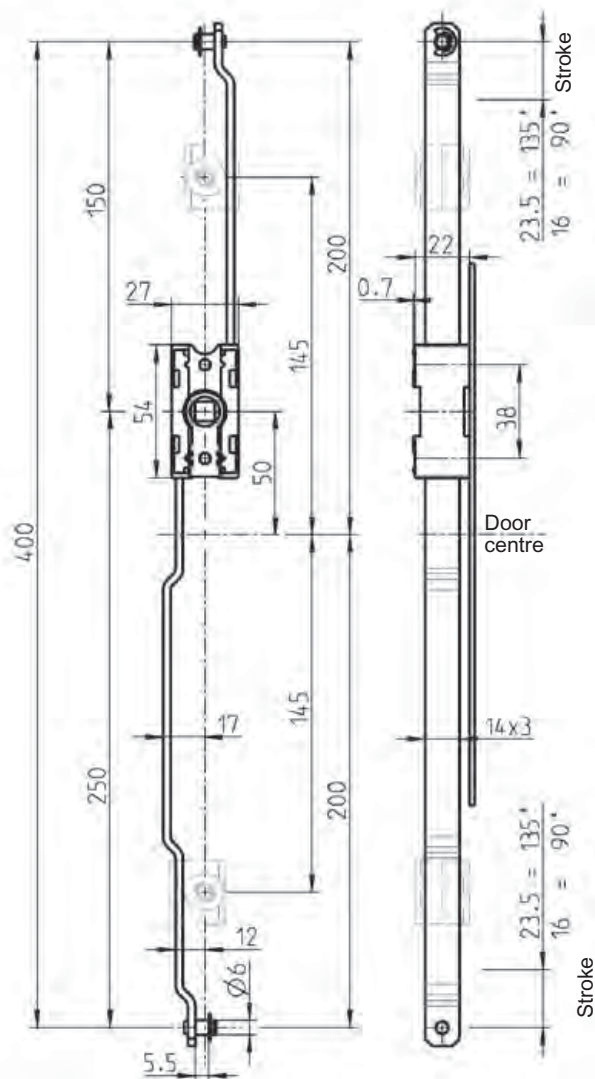
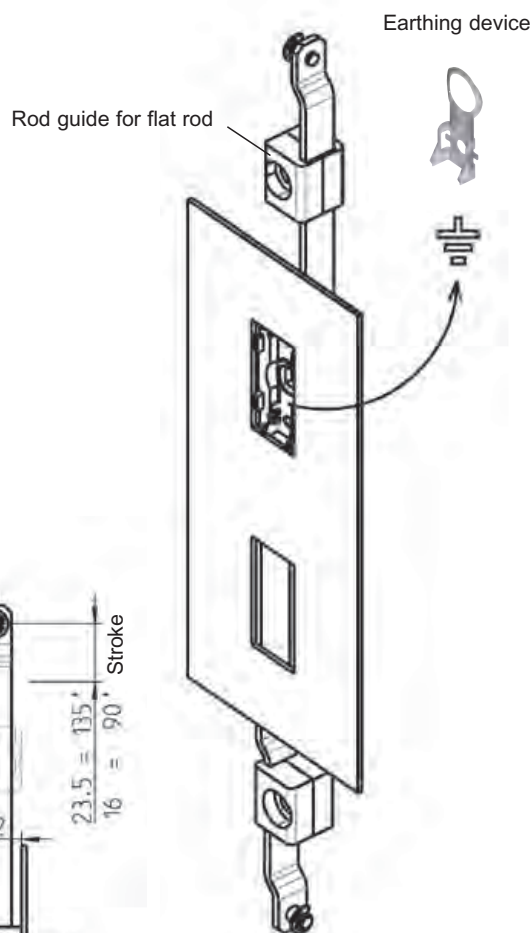
3YA-120

(3A-340)

Rod control for round rods

PROGRAM 1125, 1150, 1225

Beschlagteile



Further parts see page

– Rods	
– inside	3ZB-120
– Rod guide	3ZC-120
	3ZC-140
– Earthing device	3YA-720
– Cam	3YA-820

Program 1125

– Escutcheon long	3B-120
	3B-180
– Swinghandle	3B-220
	3B-420

Program 1150

– Swinghandle 1153	3C-320
--------------------	--------

Program 1225

– Escutcheon long	3G-120
	3G-180
– Swinghandle	3G-220
	3G-420

Rod control material on choice

Rod control box

zinc die
polyamide black

Rod

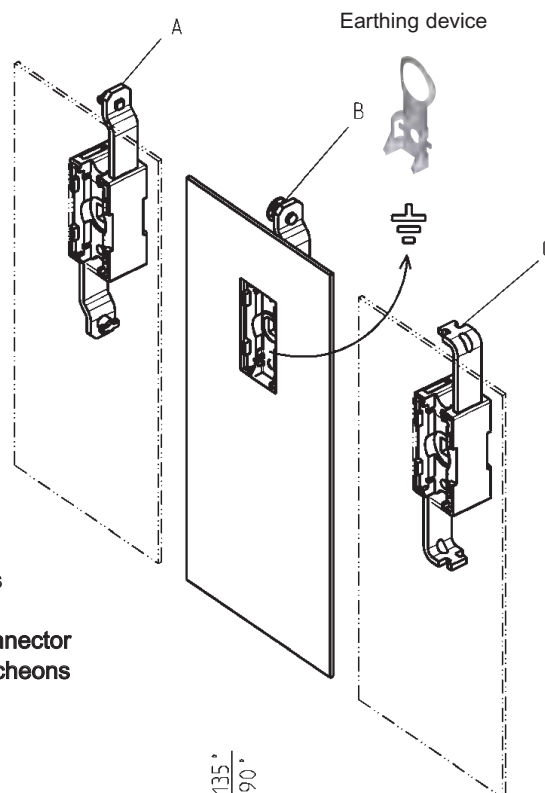
m.s. zinc pl. 1121-U29-C
aluminium 1121-U39-C

3YA-140

(3A-360)

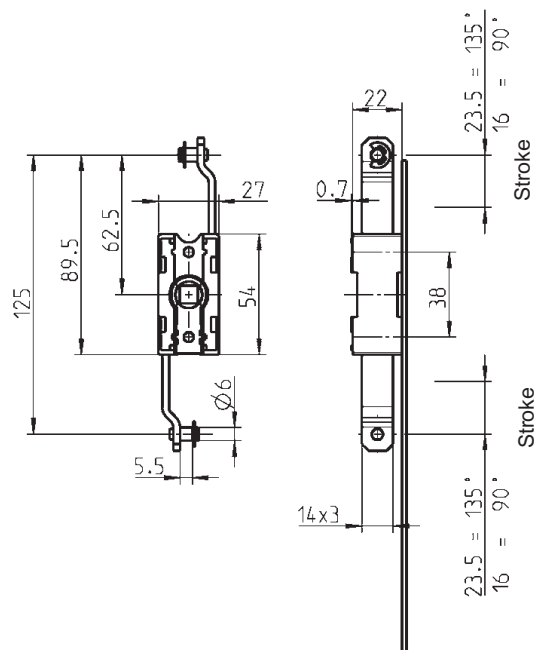


STAINLESS STEEL



Rod control for short escutcheons

Version B in combination with connector (3YA-180) suitable for long escutcheons



Further parts see page

– Rods

inside

– Connector

– Earthing device

– Cam

3ZB-120

3ZB-220

3YA-180

3YA-720

3YA-820

Program 1125

– Escutcheon short

3B-120

3B-180

Program 1225

– Escutcheon short

3G-120

3G-180

– Swinghandle
small version

3G-520

3YA-160

(3A-380)

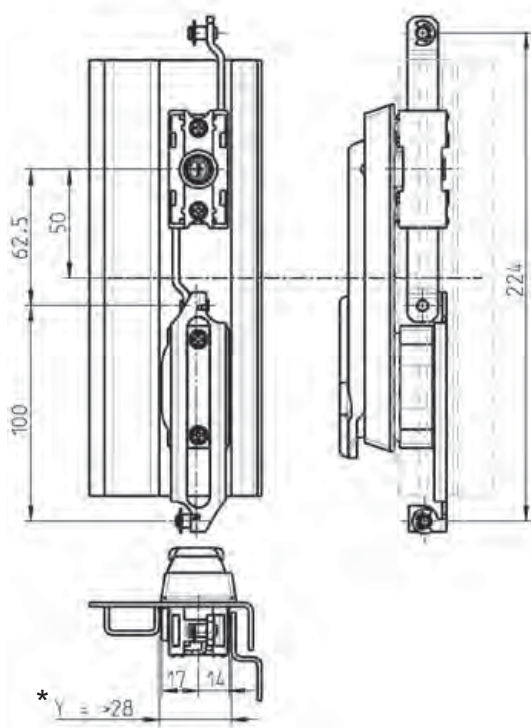
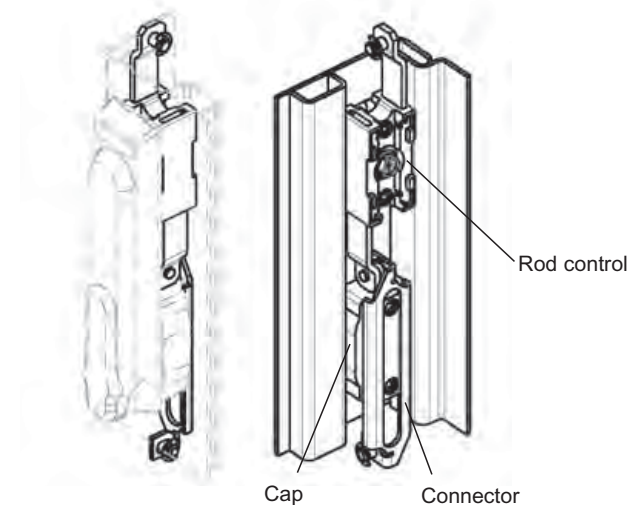
Rod control with two rods: Material on choice

Version

Rod control box	Rod	A	B	C
zinc die	m.s. zinc pl.	1121-U124-C	1121-U1-C	1121-U153-C
polyamide black	AISI 304	–	1121-U177-C	–
polyamide black	aluminium	–	1121-U37-C	1121-U154-C
Rod control with one rod				
Rod control box	Rod			
polyamide black	aluminium	–	1121-U61-C	–
Rod control without rods, with swing stopper aluminium, turn 90°				
Rod control box	Rod			
polyamide black	–	–	1121-U60-C	–

Connector for smaller width

PROGRAM 1125, 1225



The use of this connector in conjunction with rod controls (3YA-160) version B gives a smaller width. In the case of installation of the long escutcheons or swinghandles with rear cap mounted at the door centre the length of the upper and lower rod will be the same.

* In case of a smaller dimension Y rear cap with flat seal (without PUR-foamed seal) has to be ordered separately on request.



Further parts see page

– Rods

inside

3ZB-120

– Rod control

3YA-160

Program 1125

– Escutcheon long

3B-120

3B-180

– Swinghandle

3B-220

3B-420

Program 1225

– Escutcheon long

3G-120

3G-180

– Swinghandle

3G-220

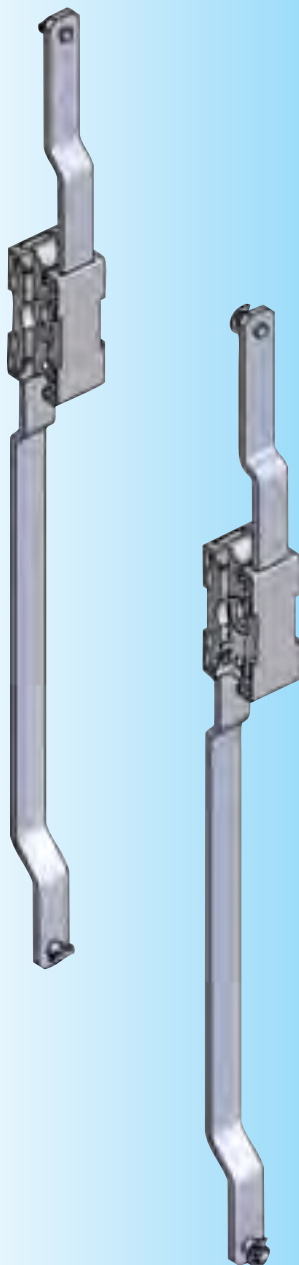
3G-420

Connector, rivet pin m.s. zinc plated, circlips spring steel zinc plated

1121-U65

3YA-180

(3A-390)



Further parts see page

– Rods

inside

3ZB-120

3ZB-220

– Earthing device

3YA-720

– Cam

3YA-820

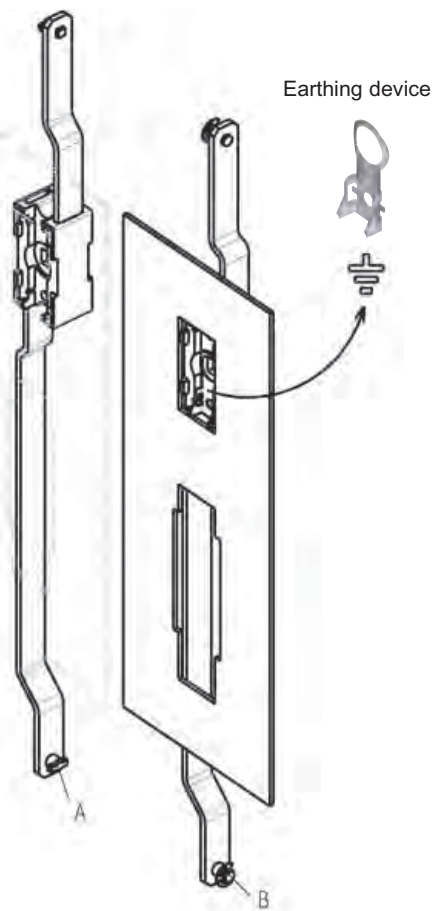
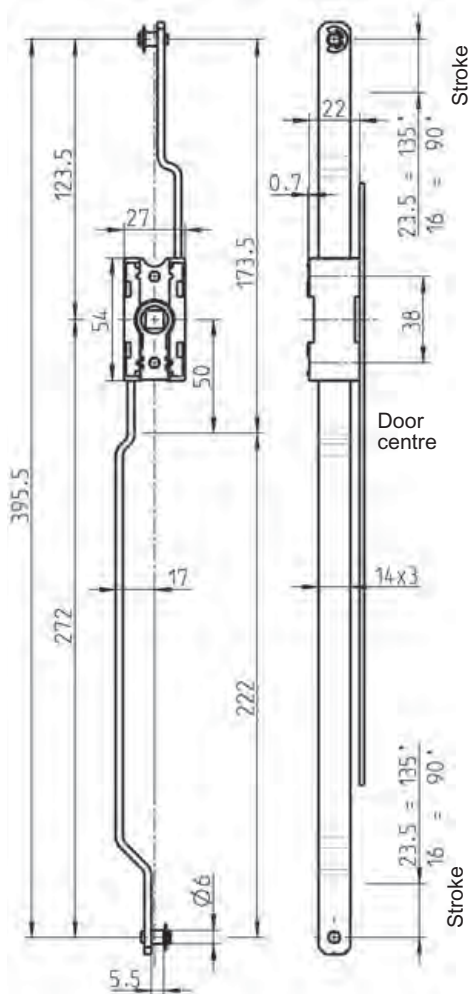
Program 1125

– Swinghandle

3B-320

3YA-220

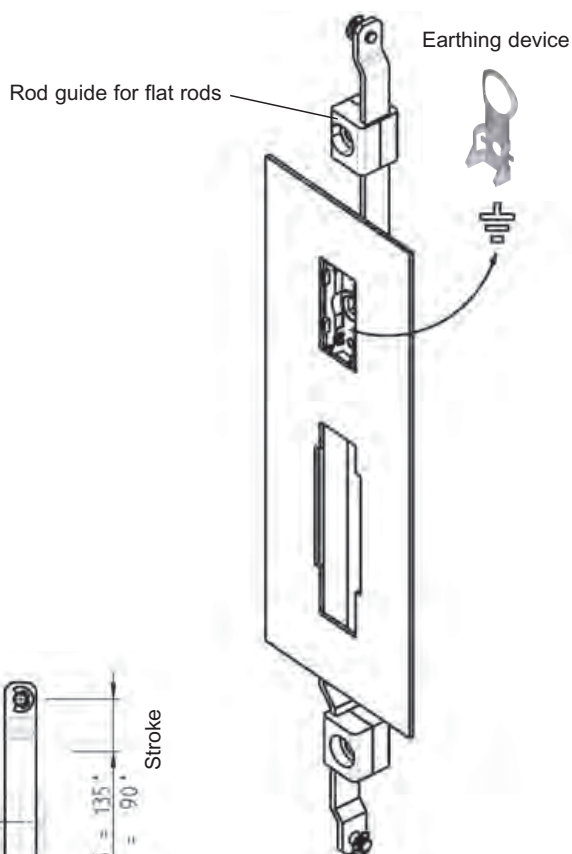
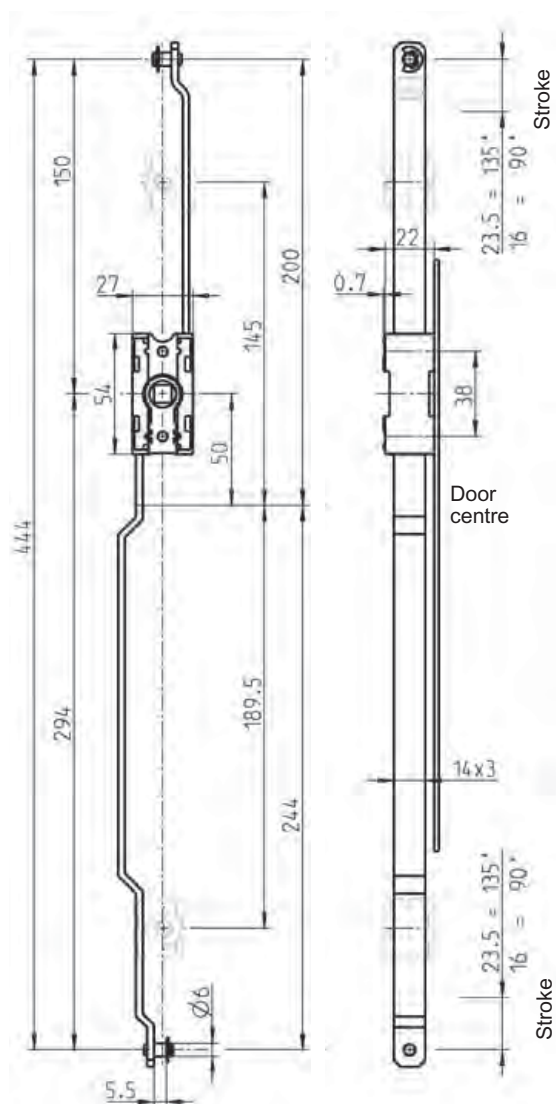
(3C-220)



Rod control: material on choice		Version	
Rod control box	Rod	A	B
Zinc die	m.s. zinc plated	1121-U126-C	1121-U51-C
polyamide black	Aluminium	–	1121-U53-C

Rod control for round rods

PROGRAM 1125



Further parts see page

– Rods	
– inside	3ZB-120
– Rod guide	3ZC-120
	3ZC-140
– Earthing device	3YA-720
– Cam	3YA-820

Program 1125

– Swinghandle	3B-320
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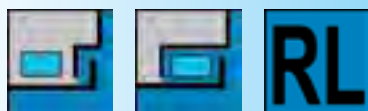
Rod control

Zinc die, Rods m.s. zinc plated

1121-U52-C

3YA-240

(3C-260)



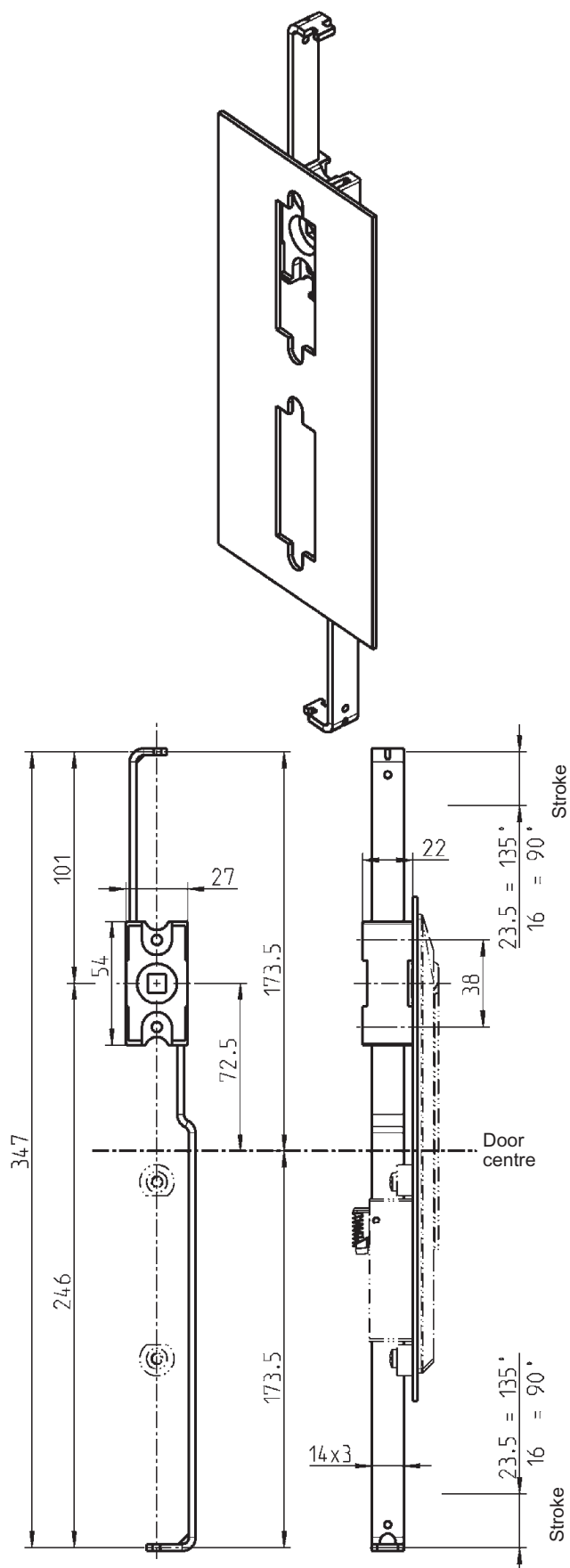
Further parts see page

- Rods
 - outside 3ZA-120
 - 3ZA-320
 - inside 3ZB-120
 - 3ZB-220
- Cam 3YA-820

- Program 1150**
- Swinghandle 1153 3C-440

3YA-420

(3F-220)

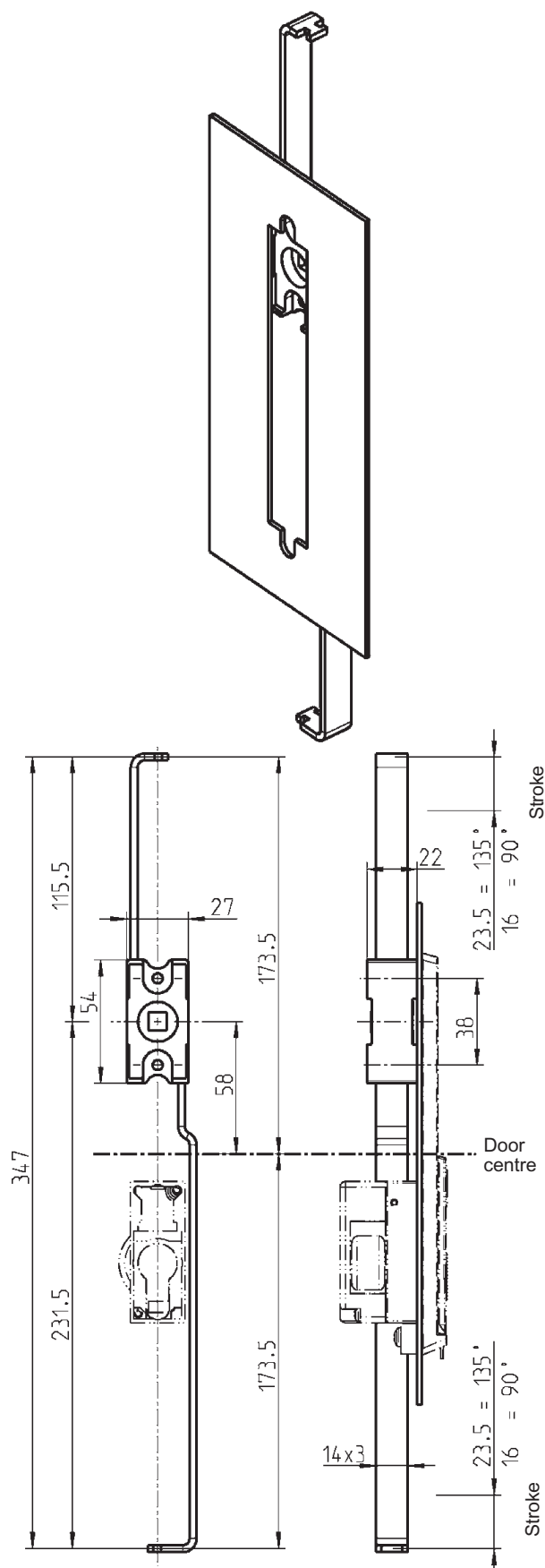


Rod control material on choice

Zinc die, Rods m.s. zinc plated	2121-U28-C
Polyamide black, rods aluminium	2121-U29-C

Rod control for flat rods

PROGRAM 2100



Further parts see page

– Rods

outside

3ZA-120

3ZA-320

inside

3ZB-120

3ZB-220

– Cam

3YA-820

Program 2100

– Escutcheon

3H-120

3H-220

– Swinghandle

3H-320

up to 3H-420

Rod control material on choice

Zinc die, rod m.s. zinc plated

2121-U26-C

Polyamide black, rods aluminium

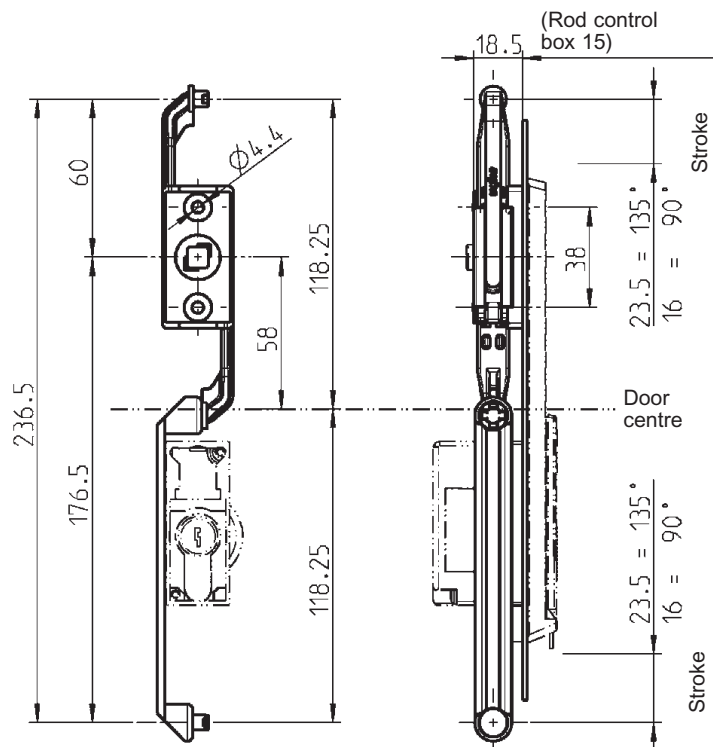
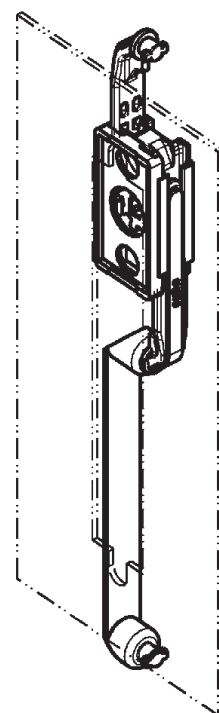
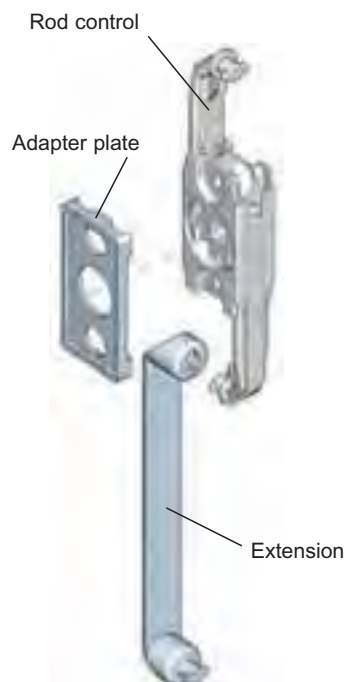
2121-U27-C

3YA-520

(3D-360)



RL



Further parts see page

– Rods

 inside

3ZB-120

3ZB-220

– Cam

3YA-820

Program 2100

– Escutcheon

3H-120

3H-220

– Swinghandle

3H-320

up to 3H-420

3YA-540

(3D-340)

Rod control zinc die

2200-U1-C

Adapter plate zinc die zinc plated

2200-05

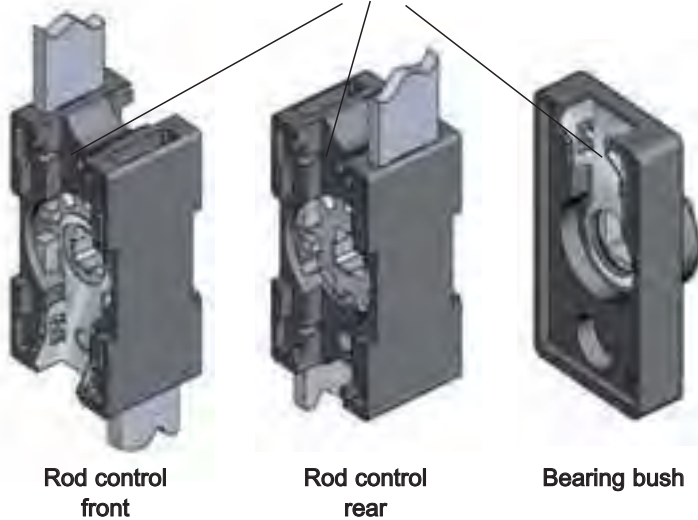
Extension zinc die zinc plated

2200-06

Earthing device for rod control and bearing bush

PROGRAM 1125, 1150, 1225

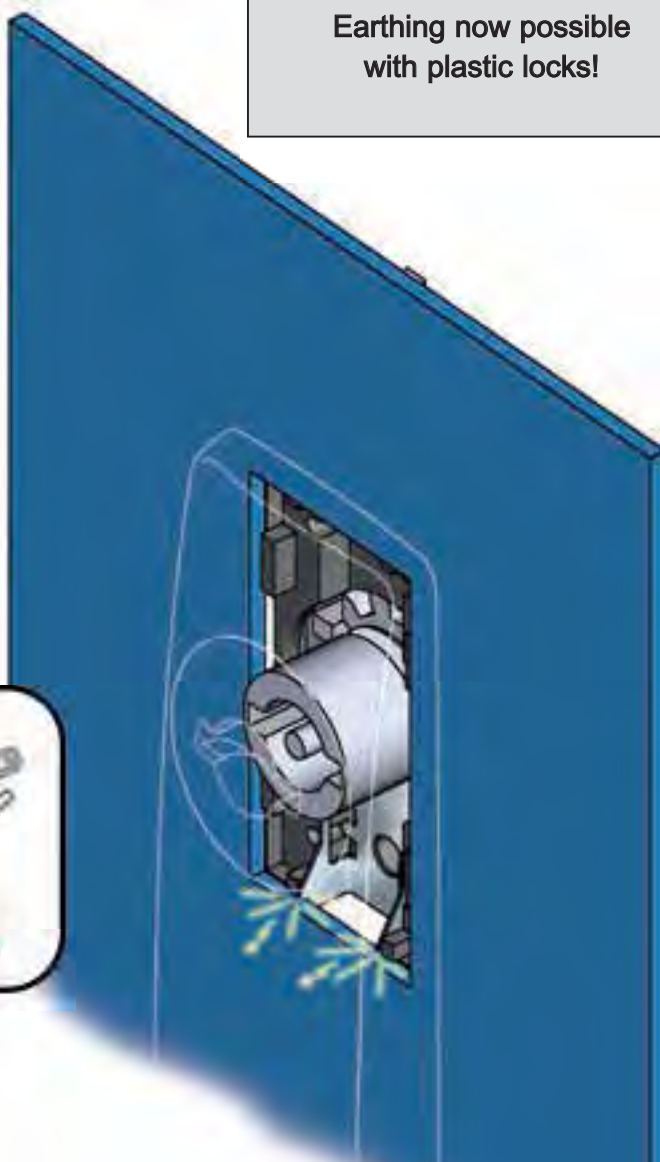
Application of earthing device



Earthing now possible
with plastic locks!



Assembly with
earthing device



The earthing device passed the test in accordance to DIN EN 60439-1/8.2.4.1. The resistance is max. 0,032 Ohm.

Attention:

The earthing device can be used regardless of the material of the rod control!

The earthing device will not change the assembly!

The earthing device can be assembled to the rod control or bearing bush without a tool.

The mechanical figures are unchanged!

Earthing will be achieved upon assembly of the escutcheon or the swinghandle!

Further parts see page

- Rod control 3YA-120 up to 3YA-240
- Bearing bush 3YB-120 (for Ts 1.0 up to 2.0)

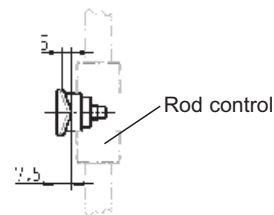
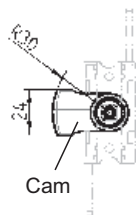
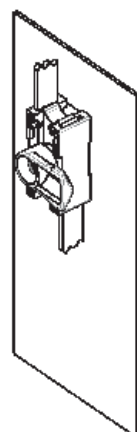
Earthing device stainless steel

1121-117

3YA-720



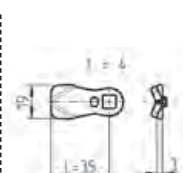
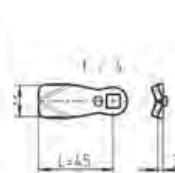
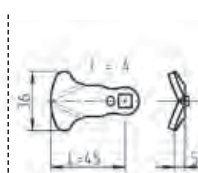
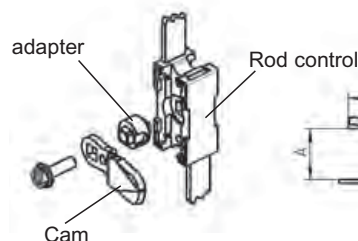
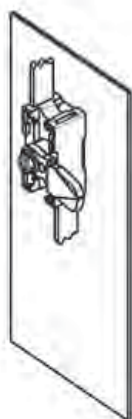
Cam zinc die



Cam zinc die zinc pl. with screw m.s. zinc pl.

1121-U25

Mild steel cam (to be used with adapter only)



Cam m.s. zinc plated

A in mm			A	L	
23	1000-293	1000-17	23	35	1000-5046
25	1000-294	1000-16	25	35	1000-5161
27	1000-295	1000-15	27	35	1000-5119
29	1000-296	1000-14	33	35	1000-5164
30 Attention:	1000-297	1000-27	Cams with different A- and L-dimensions Minimum order quantity: 2000 pieces		
31 These A-dimen-	1000-298	1000-50			
33 sions are only	1000-299	1000-13			
35 valid with a Rod	1000-300	1000-28			
37 control	1000-301	1000-26			
39	1000-302	1000-12			
40	1000-303	1000-11			
41	1000-304	1000-51			
43	1000-305	1000-52			
45	1000-306	1000-25			
47	1000-307	1000-53			
49	1000-308	1000-54			
50	1000-309	1000-10			
52	1000-310	1000-55			
55	1000-311	1000-56			

Further parts see page
– Rod control 3YA-120
up to 3YA-540

Adapter zinc die, screw m.s. zinc pl.

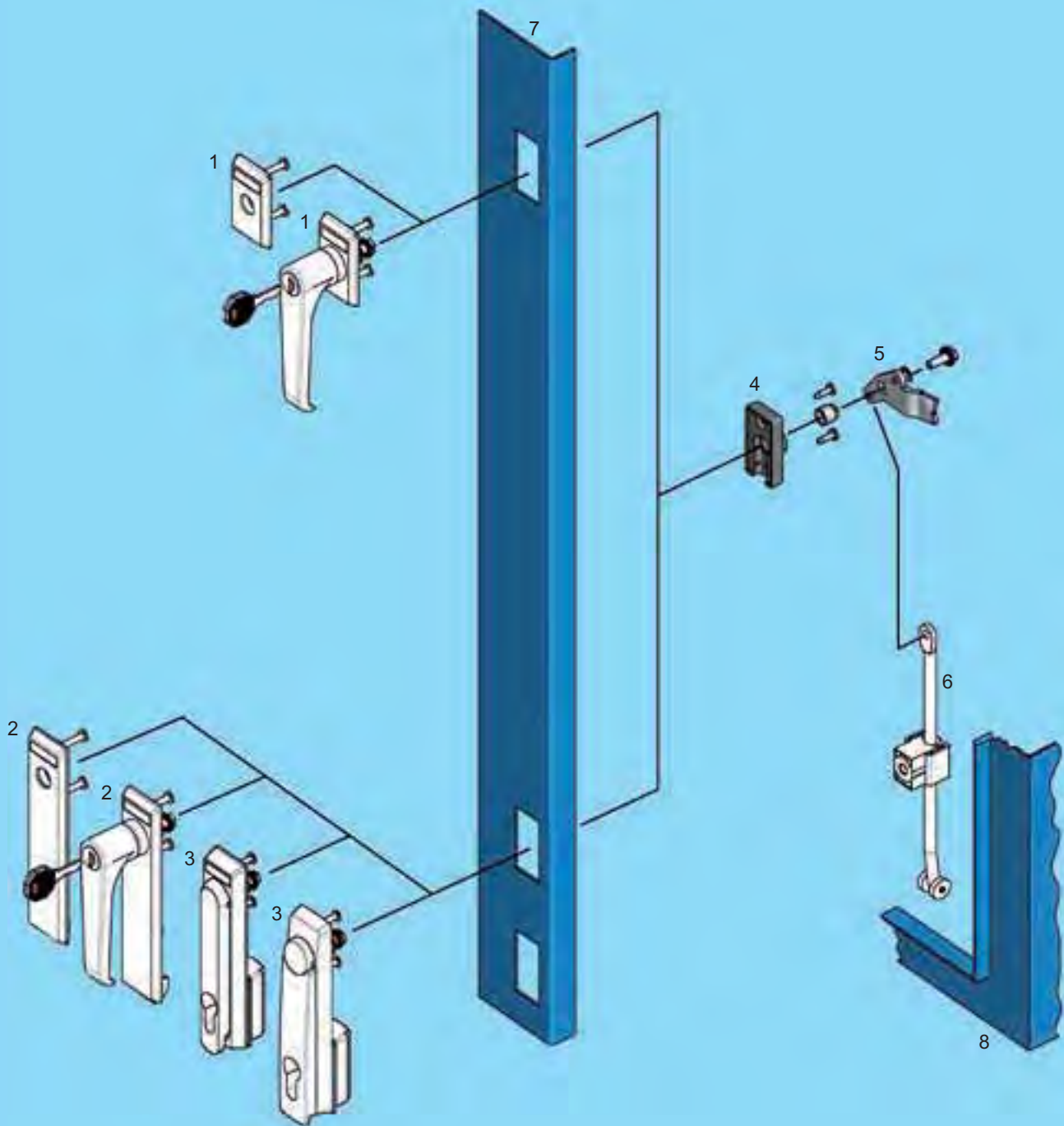
1121-U40

3YA-820

(3A-620)

Bearing bush with cam

Program 1125, 1225, 2100

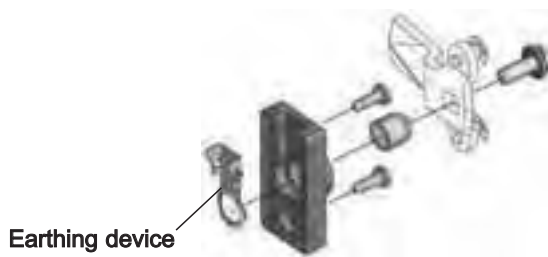


- 1 Escutcheon short
- 2 Escutcheon long
- 3 Swinghandle
- 4 Bearing bush
- 5 Cam
- 6 Rod (inside the gasketing)
- 7 Door
- 8 Cabinet/frame

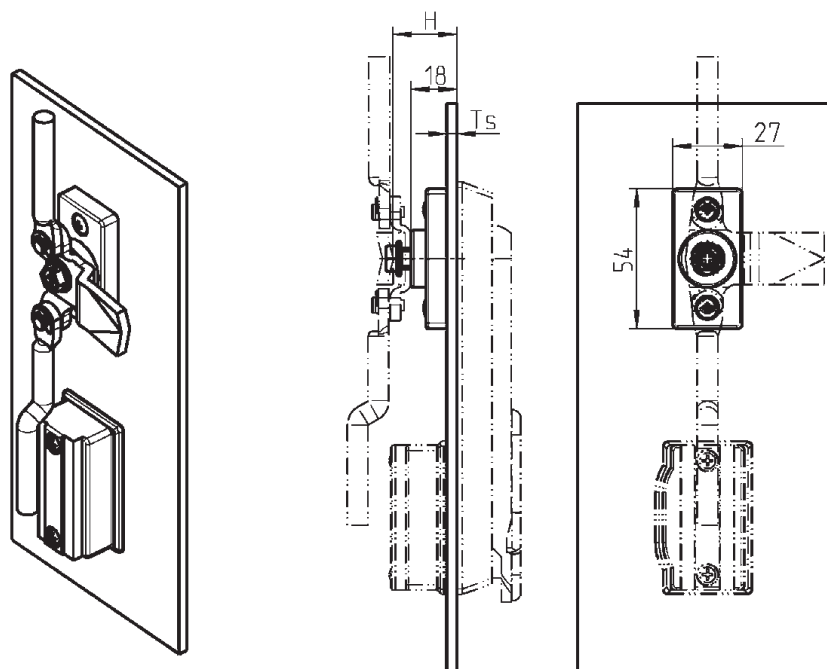
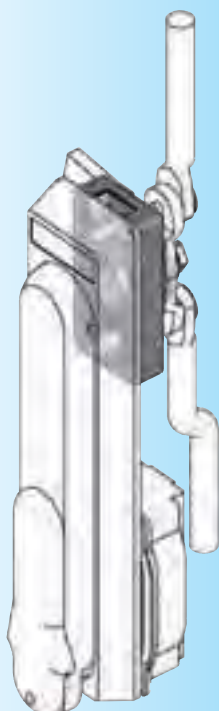
Program 1125, 1225
Program 1125, 1225, 2100
Program 1125, 1225, 2100
 3YB-120, 3YB-140
 3YB-420, 3YB-440



3YB-100



Earthing device



Attention: Escutcheons and swinghandles assembled with rear cap can not be used with standard rods!
-Special rods on request

Note:
Earthing device can be used with bearing bushes for Ts = 1,0, 1,5 and 2,0!

Further parts see page

- Cam for bearing bush without stopper 3YB-420
- Cam for bearing bush with stopper 3YB-440
- Earthing device 3YA-720

Program 1125

- Escutcheon 3B-120, 3B-180
- Swinghandle 3B-220, 3B-420

Program 1225

- Escutcheon 3G-120, 3G-180, 3G-220, 3G-420, 3G-520
- Swinghandle

Bearing bush Polyamide black

door gauge		without stopper	Escutcheon LH swinghandle RH	Escutcheon RH Swinghandle LH
			with stopper	with stopper
	1,0	1125-81-010	1125-83-010	1125-84-010
	1,5	1125-81-015	1125-83-015	1125-84-015
	2,0	1125-81-020	1125-83-020	1125-84-020
	2,5	1125-81-025	1125-83-025	1125-84-025
	3,0	1125-81-030	1125-83-030	1125-84-030
	4,0	1125-81-040	1125-83-040	1125-84-040
	5,0	1125-81-050	1125-83-050	1125-84-050
	6,0	1125-81-060	1125-83-060	1125-84-060
	8,0	1125-81-080	on request	on request
	10,0	1125-81-100	on request	on request
	11,0	1125-81-110	on request	on request
	12,0	1125-81-120	–	–

Order separately:

Adapter casting zinc pl., fixing material m.s. zinc pl.

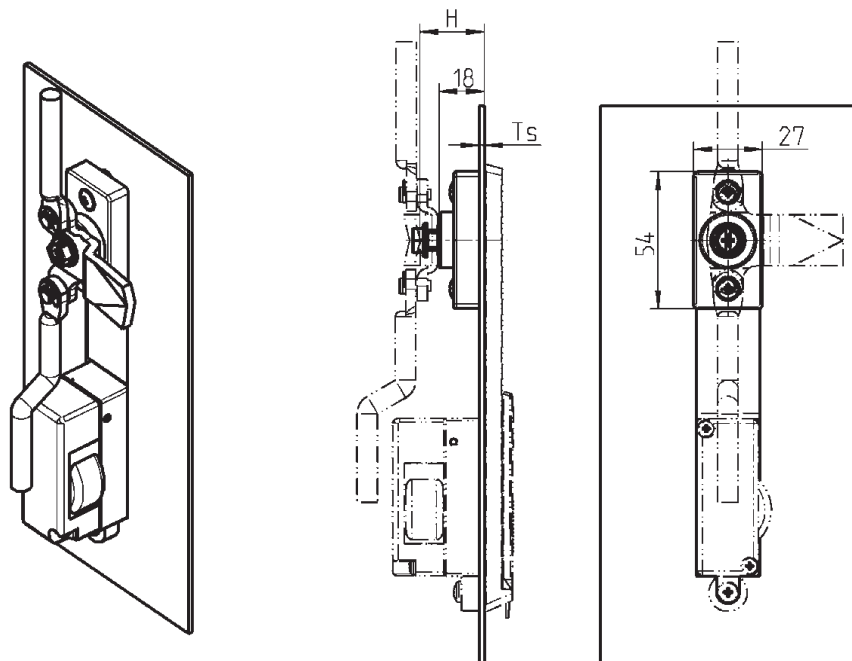
	for	Ts 1,0 – 3,0	Ts 4,0 – 6,0	Ts 8,0 – 12,0
Swinghandle		1125-U284	1125-U284	1125-U285
Escutcheon		1125-U286	1125-U287	1125-U288

3YB-120

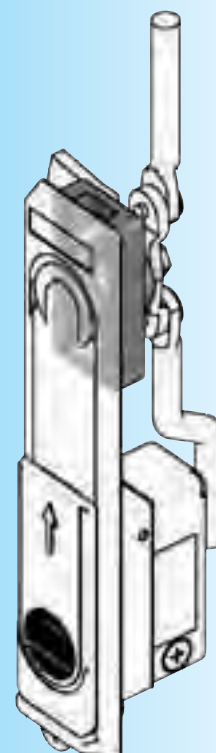
(3B-120)

Bearing bush Ts 1,0 – 12,0 mm

PROGRAM 2100



Attention: Escutcheons and swinghandles assembled with rear cap can not be used with standard rods!
-Special rods on request



Bearing bush Polyamide black

door gauge	without stopper	Escutcheon LH swinghandle RH with stopper	Escutcheon RH Swinghandle LH with stopper
1,0	1125-81-010	1125-83-010	1125-84-010
1,5	1125-81-015	1125-83-015	1125-84-015
2,0	1125-81-020	1125-83-020	1125-84-020
2,5	1125-81-025	1125-83-025	1125-84-025
3,0	1125-81-030	1125-83-030	1125-84-030
4,0	1125-81-040	1125-83-040	1125-84-040
5,0	1125-81-050	1125-83-050	1125-84-050
6,0	1125-81-060	1125-83-060	1125-84-060
8,0	1125-81-080	on request	on request
10,0	1125-81-100	on request	on request
11,0	1125-81-110	on request	on request
12,0	1125-81-120	–	–

Order separately:

Adapter casting zinc pl., fixing material m.s. zinc pl.

for Ts 1,0 - 12,0

1125-U286

Further parts see page

- Cam for bearing bush without stopper 3YB-420
- Cam for bearing bush with stopper 3YB-440

Program 2100

- Escutcheon 3H-120
- 3H-220
- Swinghandle 3H-320
- up to 3H-420

3YB-140

(3E-120)

Info

Quarter turns

Rod controls

Locking systems

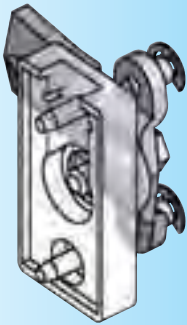
EMKA®

Beschlagteile









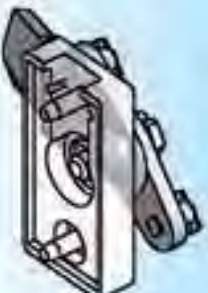
Further parts see page

- Rod
-  inside
- Bearing bush

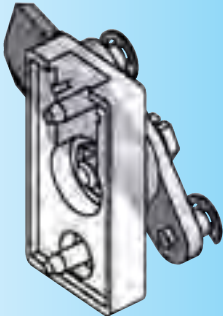
3ZB-120

3YB-120

3YB-140



Version A



Version B

Further parts see page

Program 1125, 1225

- Rod
-  inside
- Bearing bush

Program 2100

- Rod
-  inside
- Bearing bush

3ZB-420

3YB-120

3ZB-820

3YB-140

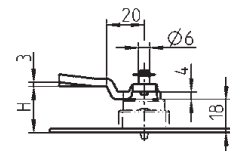
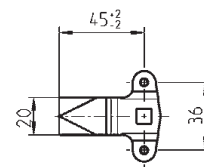
3YB-420

(3B-220; 3E-220)

Cams for bearing bush without stopper

PROGRAM 1125, 1225, 2100

Cam with rivet pins
Stroke 18 mm



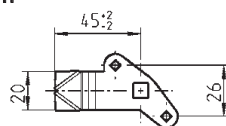
Cam m.s. zinc plated

H		H		H	
18	1107-U119	30	1107-U124	42	1107-U131
20	1107-U120	32	1107-U125	44	1107-U132
22	1107-U5	34	1107-U126	45	1107-U133
24	1107-U121	35	1107-U127	47	1107-U134
25	1107-U122	36	1107-U128	50	1107-U135
26	1107-U123	38	1107-U129		
28	1107-U6	40	1107-U130		

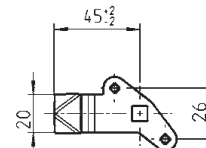
2-point rod control m.s. zinc plated

1107-U88

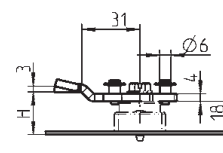
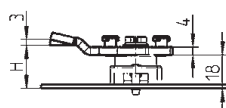
cam with rivet pins
Stroke 26 mm



Version A: Cam with T rivets



Version B: Cam with round rivets



Version A: Cam m.s. zinc plated

H	RH	LH	H	RH	LH
23	1000-U544-23	1000-U545-23	31	1000-U544-31	1000-U545-31
25	1000-U544-25	1000-U545-25	35	1000-U544-35	1000-U545-35
27	1000-U544-27	1000-U545-27	38	1000-U544-38	1000-U545-38
29	1000-U544-29	1000-U545-29			

2-point rod control m.s. zinc plated

1000-U632

Version B: Cam m.s. zinc plated

H	RH	LH	H	RH	LH
23	1000-U661-23	1000-U662-23	31	1000-U661-31	1000-U662-31
25	1000-U661-25	1000-U662-25	35	1000-U661-35	1000-U662-35
27	1000-U661-27	1000-U662-27	38	1000-U661-38	1000-U662-38
29	1000-U661-29	1000-U662-29	40	1000-U661-40	1000-U662-40

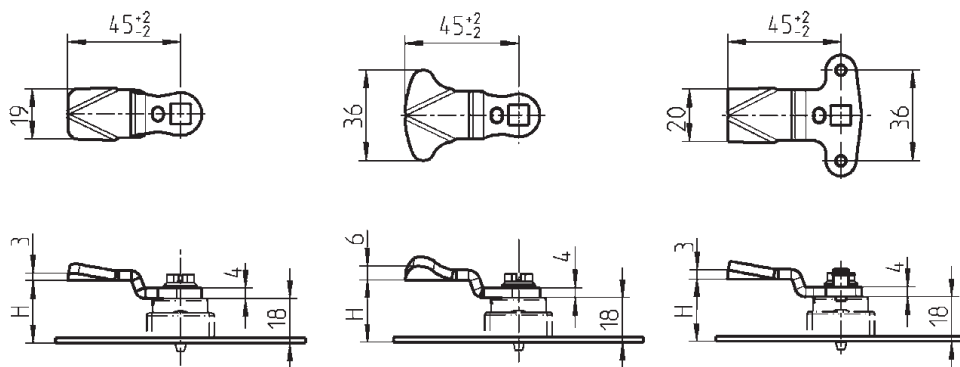
2-point rod control m.s. zinc plated

1000-U663

Cams for bearing bush with stopper

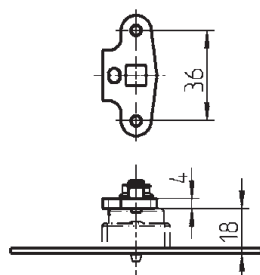
PROGRAM 1125, 1225, 2100

Cam with rivet pins
Stroke 18 mm



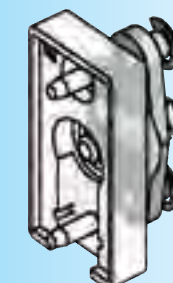
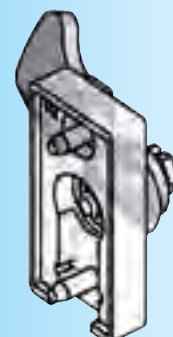
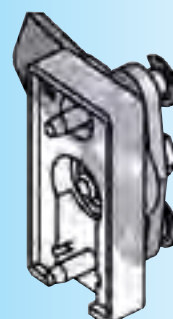
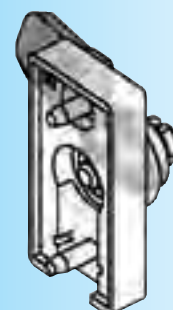
Cam m.s. zinc pl.		Cam m.s. zinc pl.		Cam m.s. zinc pl.	
H		H		H	
18	1000-17	18	1000-293	18	1000-U26
20	1000-16	20	1000-294	20	1000-U27
22	1000-15	22	1000-295	22	1000-U28
24	1000-14	24	1000-296	24	1000-U29
25	1000-27	25	1000-297	25	1000-U30
26	1000-50	26	1000-298	26	1000-U31
28	1000-13	28	1000-299	28	1000-U32
30	1000-28	30	1000-300	30	1000-U33
32	1000-26	32	1000-301	32	1000-U34
34	1000-12	34	1000-302	34	1000-U35
35	1000-11	35	1000-303	35	1000-U36
36	1000-51	36	1000-304	36	1000-U37
38	1000-52	38	1000-305	38	1000-U38
40	1000-25	40	1000-306	40	1000-U39
42	1000-53	42	1000-307	42	1000-U40
44	1000-54	44	1000-308	44	1000-U41
45	1000-10	45	1000-309	45	1000-U42
47	1000-55	47	1000-310	47	1000-U43
50	1000-56	50	1000-311	50	1000-U44

Cam with rivet pins
Stroke 18 mm



2-point rod control m.s. zinc plated

1000-U167



Further parts see page

– Rod

– inside

– Bearing bush

3ZB-120

3YB-120

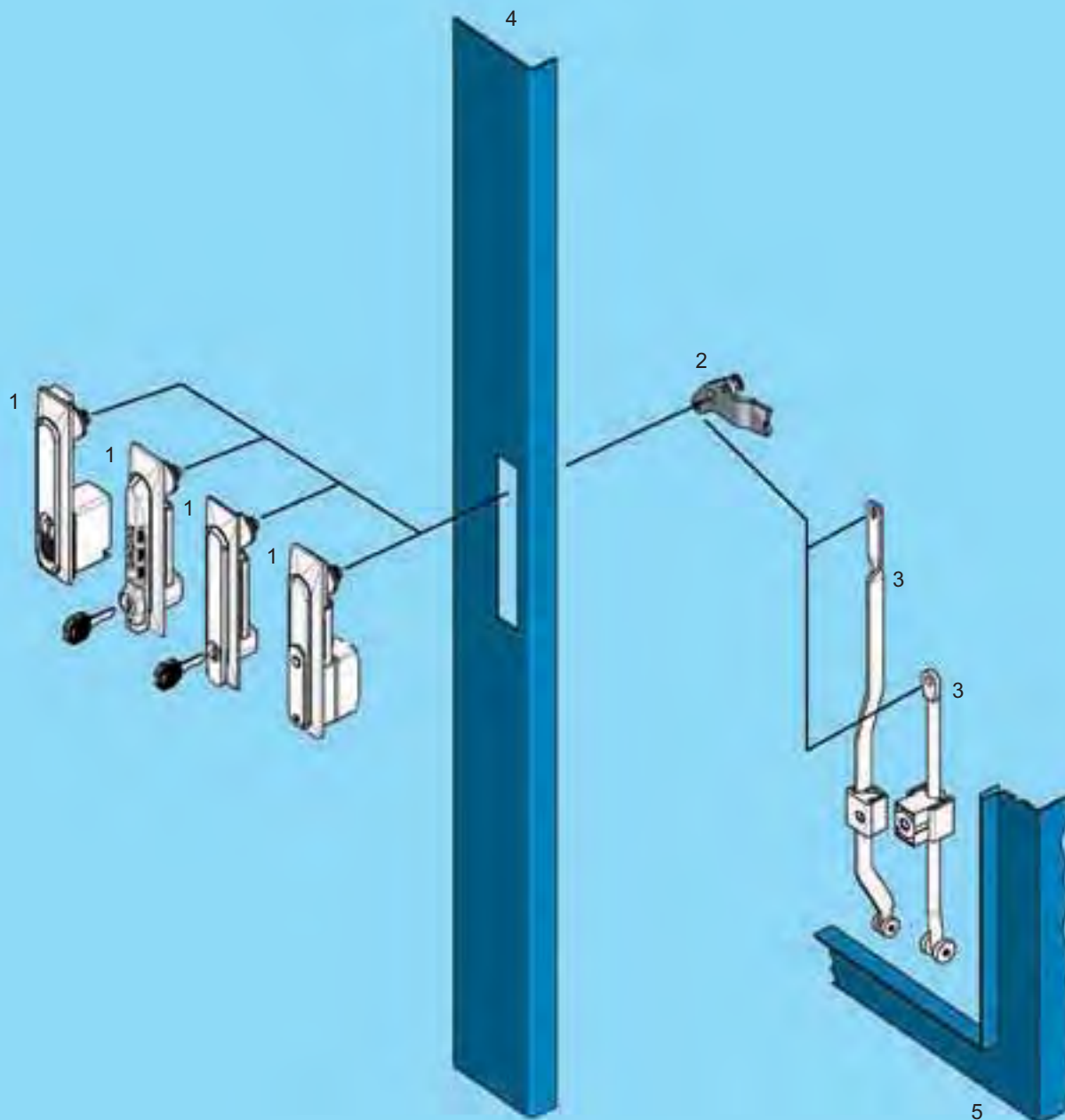
3YB-140

3YB-440

Notes:

Cam

Program 1107, 1125, 1150, 1180, 1225



- 1 Swinghandle
- 2 Cam
- 3 Rod (inside the gasketing)
- 4 Door
- 5 Cabinet/frame

Program 1107, 1125, 1150, 1180, 1225
3YC-120, 3YC-140



3YC-100



Further parts see page

Program 1107

– Rod

inside

3ZB-120

– Swinghandle

3A-120

3A-140

3A-320

3A-360

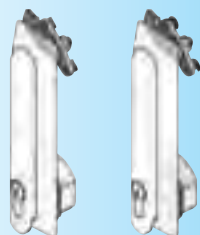
Program 1125

– Rod on request

– Swinghandle

(Version B)

3B-320



Further parts see page

Program 1107

– Rod

inside

3ZB-320

– Swinghandle

3A-120

3A-140

3A-320

3A-360

Program 1125

– Rod

inside

3ZB-440

– Swinghandle

3B-320

– (Version B)

Program 1150

– Rod

inside for swinghandle

1150 (3C-140) and

1155 (3C-620)

3ZB-520

inside for swinghandle

1153 (3C-320) and

1154 (3C-220)

3ZB-540

– Swinghandle 1150

3C-140

– Swinghandle 1153

3C-320

– Swinghandle 1154

3C-220

– Swinghandle 1155

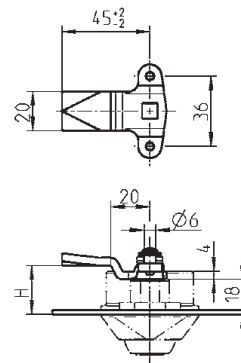
3C-620

Cam with rivet pins

Stroke 18 mm

Attention:

not suitable for program 1150!



Cam m.s. zinc plated

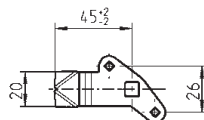
H		H		H		H	
4	1107-U112	18	1107-U119	30	1107-U124	42	1107-U131
6	1107-U113	20	1107-U120	32	1107-U125	44	1107-U132
8	1107-U114	22	1107-U5	34	1107-U126	45	1107-U133
10	1107-U115	24	1107-U121	35	1107-U127	47	1107-U134
13	1107-U116	25	1107-U122	36	1107-U128	50	1107-U135
14	1107-U117	26	1107-U123	38	1107-U129		
16	1107-U118	28	1107-U6	40	1107-U130		

2-point rod control, m.s. zinc pl.

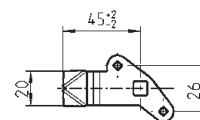
1107-U88

cam with rivet pins

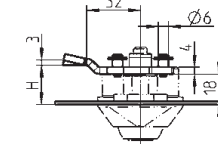
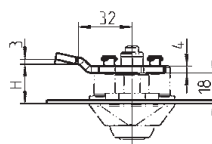
Stroke 26 mm



Version A: Cam with T rivets



Version B: Cam with round rivets



Version A: Cam m.s. zinc plated

H	RH	LH	H	RH	LH
23	1000-U544-23	1000-U545-23	31	1000-U544-31	1000-U545-31
25	1000-U544-25	1000-U545-25	35	1000-U544-35	1000-U545-35
27	1000-U544-27	1000-U545-27	38	1000-U544-38	1000-U545-38
29	1000-U544-29	1000-U545-29			

2-point rod control, m.s. zinc pl.

1000-U632

Version B: cam m.s. zinc plated

H	RH	LH	H	RH	LH
23	1000-U661-23	1000-U662-23	31	1000-U661-31	1000-U662-31
25	1000-U661-25	1000-U662-25	35	1000-U661-35	1000-U662-35
27	1000-U661-27	1000-U662-27	38	1000-U661-38	1000-U662-38
29	1000-U661-29	1000-U662-29	40	1000-U661-40	1000-U662-40

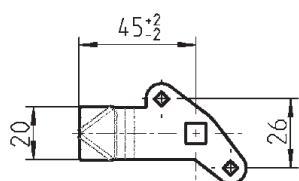
2-point rod control, m.s. zinc pl.

1000-U663

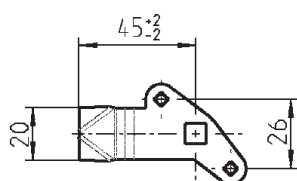
Cam

PROGRAM 1125, 1150, 1180, 1225

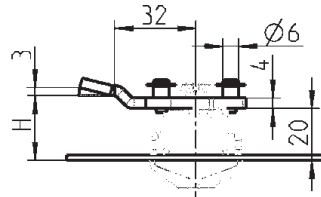
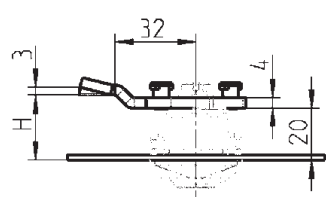
cam with rivet pins
Stroke 26 mm
Program 1150, 1180



Version A: Cam with T rivets



Version B: Cam with round rivets



Version A: Cam m.s. zinc plated

H	RH	LH	H	RH	LH
25	1000-U544-23	1000-U545-23	33	1000-U544-31	1000-U545-31
27	1000-U544-25	1000-U545-25	37	1000-U544-35	1000-U545-35
29	1000-U544-27	1000-U545-27	40	1000-U544-38	1000-U545-38
31	1000-U544-29	1000-U545-29			

2-point rod control, m.s. zinc pl.

					1000-U632
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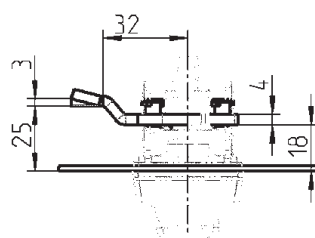
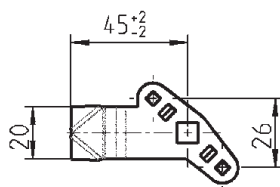
Version B: cam m.s. zinc plated

H	RH	LH	H	RH	LH
25	1000-U661-23	1000-U662-23	33	1000-U661-31	1000-U662-31
27	1000-U661-25	1000-U662-25	37	1000-U661-35	1000-U662-35
29	1000-U661-27	1000-U662-27	40	1000-U661-38	1000-U662-38
31	1000-U661-29	1000-U662-29	42	1000-U661-40	1000-U662-40

2-point rod control, m.s. zinc pl.

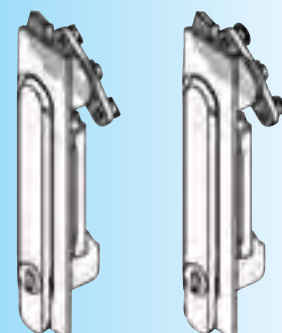
					1000-U663
--	--	--	--	--	-----------

cam with rivet pins
Stroke 26 mm
Program 1125, 1225



Version B: cam m.s. zinc plated

H	RH	LH
25	1107-U242-25	1107-U243-25



Further parts see page Program 1150

- Rod
 - inside for swinghandle 1150 (3C-120) 3ZB-520
 - inside for swinghandle 1151 (3C-420) 3ZB-540
- Swinghandle 1150 3C-120
- Swinghandle 1151 3C-420

Program 1180

- Rod
 - inside 3ZB-620
- Swinghandle 3E-320



Further parts see page Program 1125

- Rod
 - inside 3ZB-440
- Swinghandle (Version C) 3B-320

Program 1225

- Rod
 - inside 3ZB-720
- Swinghandle 3G-320

Notes:

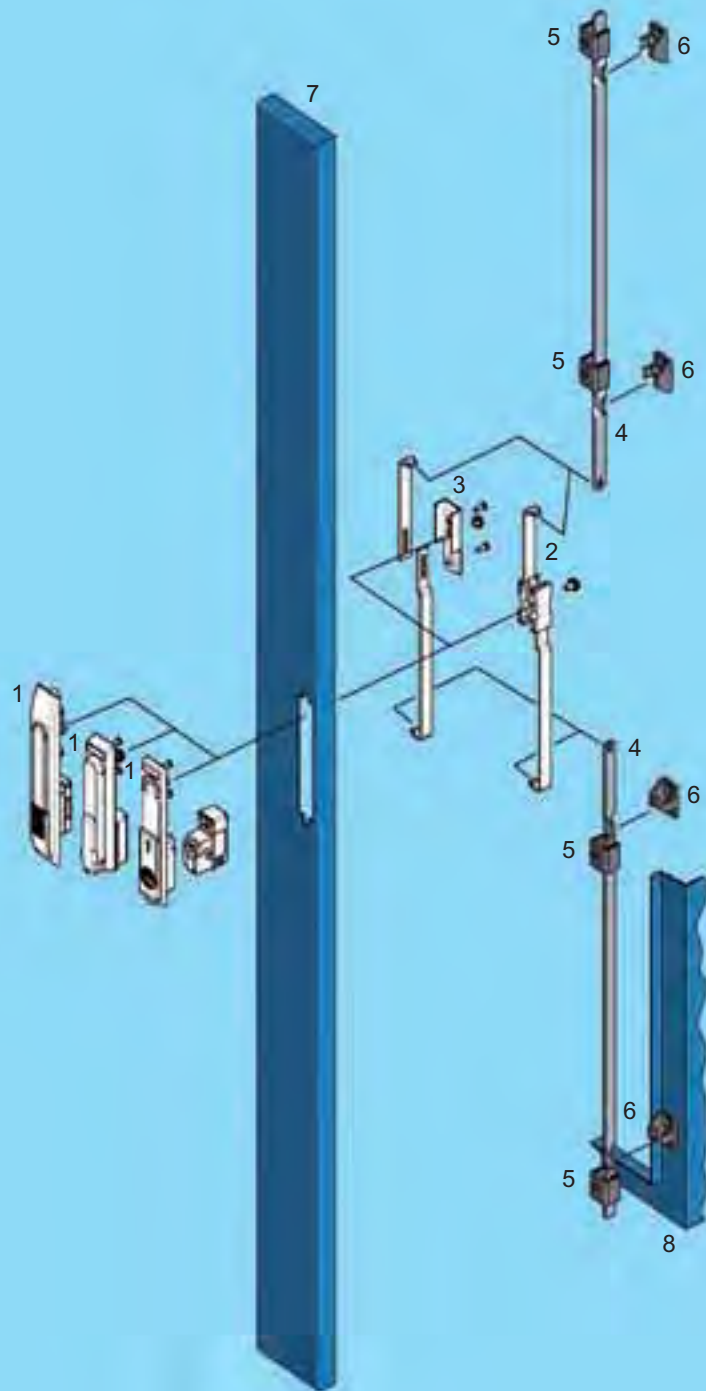
Rods for rod control and rod gear outside the gasketing

Info

1 Quarter turns

2 Rod controls

3 Locking systems



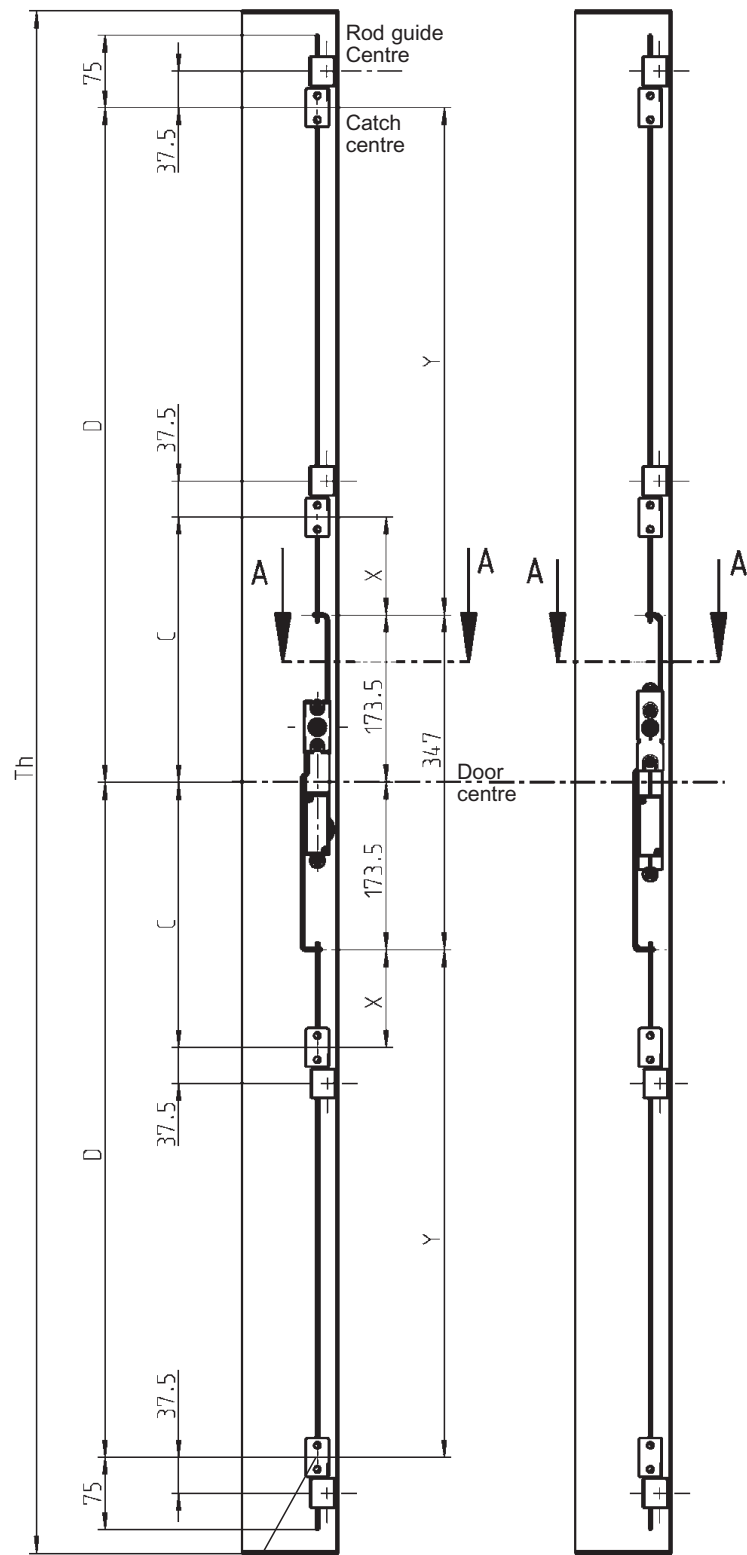
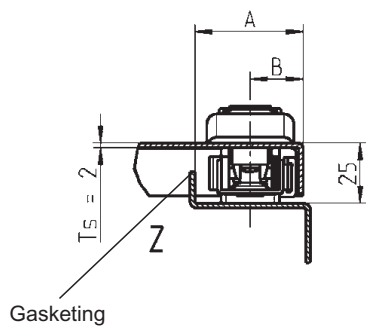
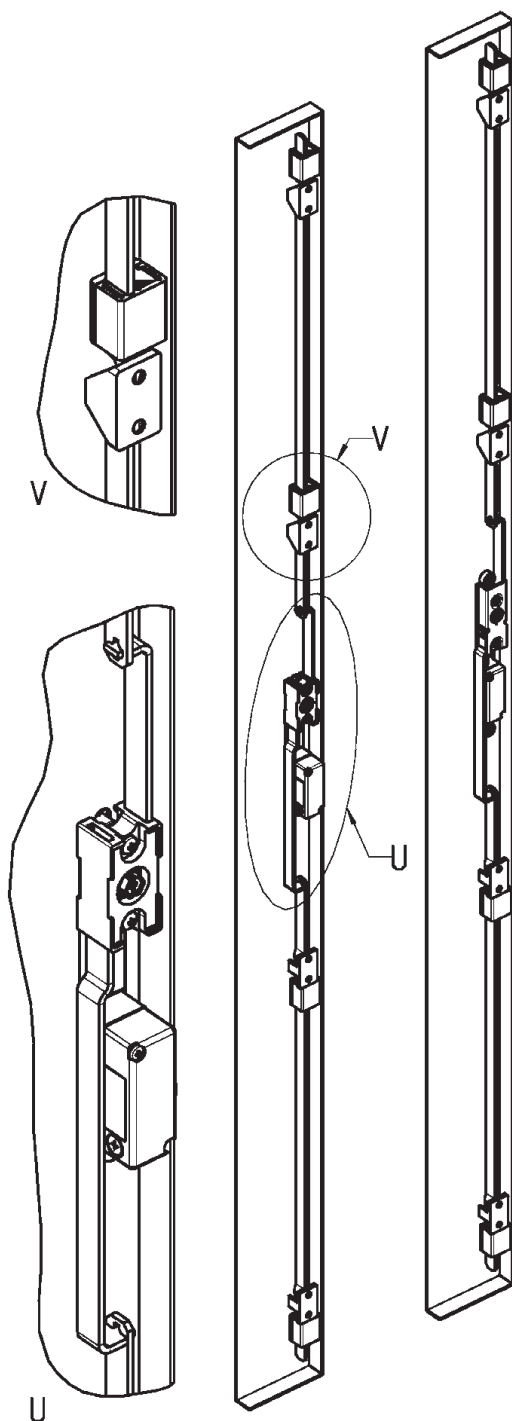
- 1 Swinghandle and escutcheon program 1125, 1150, 1160, 1180, 1190, 1225, 2100, 2300, 2400, 2600
- 2 Rod control
- 3 Rod control
- 4 Rod for rod control / rod gear (outside the gasketing)
- 5 Rod guide
- 6 Catches
- 7 Door
- 8 Cabinet/frame



3ZA-100

Rods

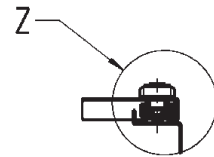
PROGRAM 1125, 1150, 1160, 1180, 1190, 1225, 2100



Different catch types



Door internal representation



A-A

4 different locking systems

A



Rod with locking slider
see catalogue page 3ZA-220

B



Twisted rod
see catalogue page 3ZA-220

C



Rod with double rollers
see catalogue page 3ZA-260

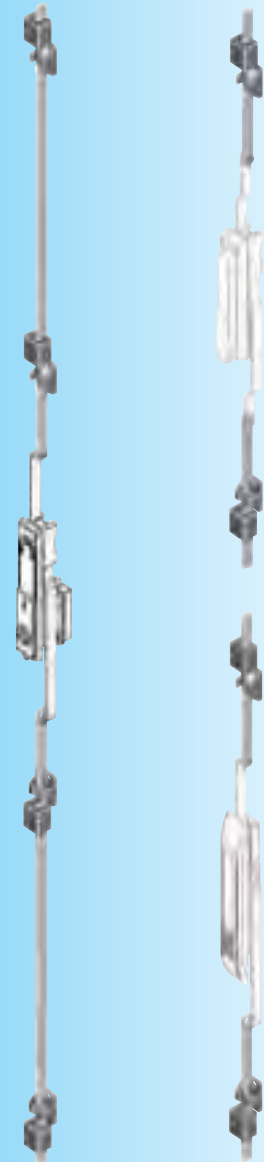
D



Rod with cut-out
see catalogue page 3ZA-260

Attention:
Suitable for use with the 90° turn - see catalogue page 3ZA-1120

PROGRAM	Dimension A	Dimension B
1125	45	23
1150	45	22
1160	45	22
1180	45	22
1190	42	20
1225	45	23
2100	45	22



Further parts see page

– Rods with turn 3ZA-1120

Program 1160

– Swinghandle and escutcheon
3D-120 3D-140

Program 1180

– Swinghandle and escutcheon
3E-120 3E-140

Program 1190

– Swinghandle 3F-120

Program 1125, 1150, 1225

– Rod control 3YA-120

Program 1150

– Rod control 3YA-420

Program 2100

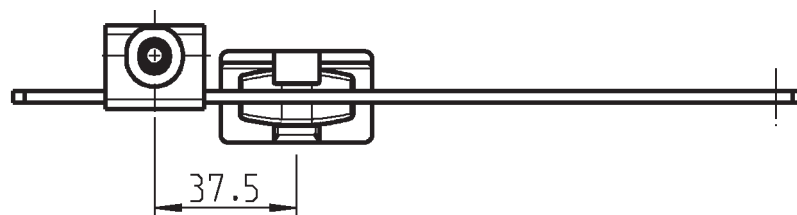
– Rod control 3YA-520

3ZA-120

(3ZA-420)



A



Door height Th	Rods		Locking points (door centre)		Rod	
	Dim. X	Dim. Y	Dim. C	Dim. D	Material	Part no.
800-1200	–	126,5	–	300	m.s.	1121-U99
					alum.	1121-U100
					AISI 304	1121-U101
1200-1600	–	276,5	–	450	m.s.	1121-U105
					alum.	1121-U106
					AISI 304	1121-U107
1600-1900	101,5	526,5	275	700	m.s.	1121-U111
					alum.	1121-U112
					AISI 304	1121-U113
1900-2200	101,5	676,5	275	850	m.s.	1121-U117
					alum.	1121-U118
					AISI 304	1121-U119

Note:
for dimensions see table
on catalogue page 3ZA-120

Further parts see page

- Catches 3ZA-1220
- Rod guide 3ZC-120
- 3ZC-140

Program 1160

- Swinghandle and escutcheon 3D-120
- 3D-140

Program 1180

- Swinghandle and escutcheon 3E-120
- 3E-140

Program 1190

- Swinghandle 3F-120

Program 1125, 1150, 1225

- Rod control 3YA-120

Program 1150

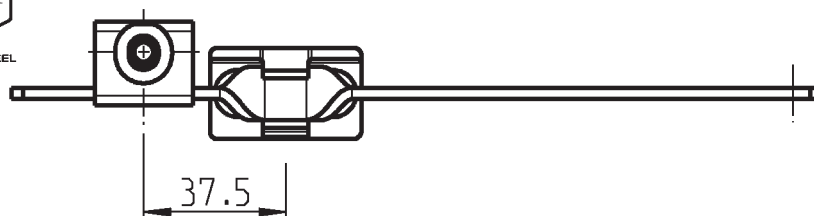
- Rod control 3YA-420

Program 2100

- Rod control 3YA-520



B



Door height Th	Rods		Locking points (door centre)		Rod	
	Dim. X	Dim. Y	Dim. C	Dim. D	Material	Part no.
800-1200	–	126,5	–	300	m.s.	1121-71-01RA
					alum.	1121-71-01TA
					AISI 304	1121-71-01PC
1200-1600	–	276,5	–	450	m.s.	1121-71-03RA
					alum.	1121-71-03TA
					AISI 304	1121-71-03PC
1600-1900	101,5	526,5	275	700	m.s.	1121-71-05RA
					alum.	1121-71-05TA
					AISI 304	1121-71-05PC
1900-2200	101,5	676,5	275	850	m.s.	1121-71-07RA
					alum.	1121-71-07TA
					AISI 304	1121-71-07PC

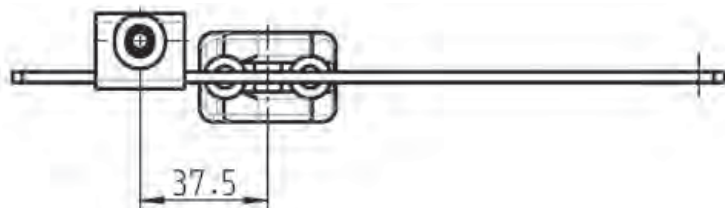
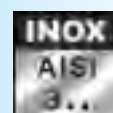
3ZA-220

(3ZA-440, 3ZA-460)

Summary of rods with double roller

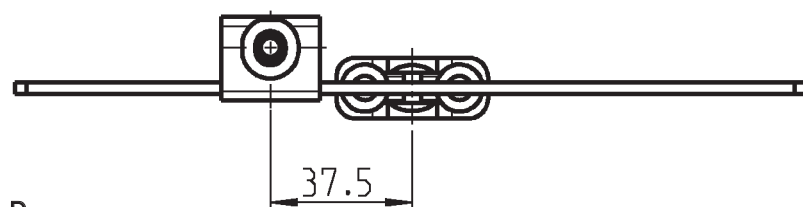
PROGRAM 1125, 1150, 1160, 1180, 1190, 1225, 2100

Beschlagteile



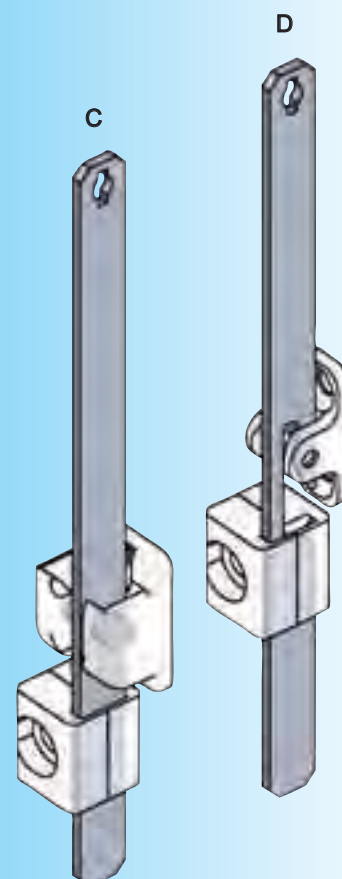
C

Door height Th	Rods		Locking points (door centre)		Rod	
	Dim. X	Dim. Y	Dim. C	Dim. D	Material	Part no.
800-1200	–	126,5	–	300	m.s. alum. AISI 304	1121-U155 on request on request
1200-1600	–	276,5	–	450	m.s. alum. AISI 304	1121-U158 on request on request
1600-1900	101,5	526,5	275	700	m.s. alum. AISI 304	1121-U161 on request on request
1900-2200	101,5	676,5	275	850	m.s. alum. AISI 304	1121-U164 on request on request



D

Door height Th	Rods		Locking points (door centre)		Rod	
	Dim. X	Dim. Y	Dim. C	Dim. D	Material	Part no.
800-1200	–	126,5	–	300	m.s. alum. AISI 304	1121-68-01RA – –
1200-1600	–	276,5	–	450	m.s. alum. AISI 304	1121-68-03RA – –
1600-1900	101,5	526,5	275	700	m.s. alum. AISI 304	1121-68-05RA – –
1900-2200	101,5	676,5	275	850	m.s. alum. AISI 304	1121-68-07RA – –



Note:
for dimensions see table
on catalogue page 3ZA-120

Further parts see page

- Catches 3ZA-1220
3ZA-1240
- Rod guide 3ZC-120
3ZC-140

Program 1160

- Swinghandle and escutcheon 3D-120
3D-140

Program 1180

- Swinghandle and escutcheon 3E-120
3E-140

Program 1190

- Swinghandle 3F-120

Program 1125, 1150, 1225

- Rod control 3YA-120

Program 1150

- Rod control 3YA-420

Program 2100

- Rod control 3YA-520

3ZA-260

(3ZA-470, 3ZA-480)



Further parts see page

- Catches 3ZA-340
- Rod guide 3ZC-120
- 3ZC-140

Program 1160

- Swinghandle and escutcheon 3D-120
3D-140

Program 1180

- Swinghandle and escutcheon 3E-120
3E-140

Program 1190

- | | |
|---------------|--------|
| – Swinghandle | 3F-120 |
|---------------|--------|

Program 1125, 1150, 1225

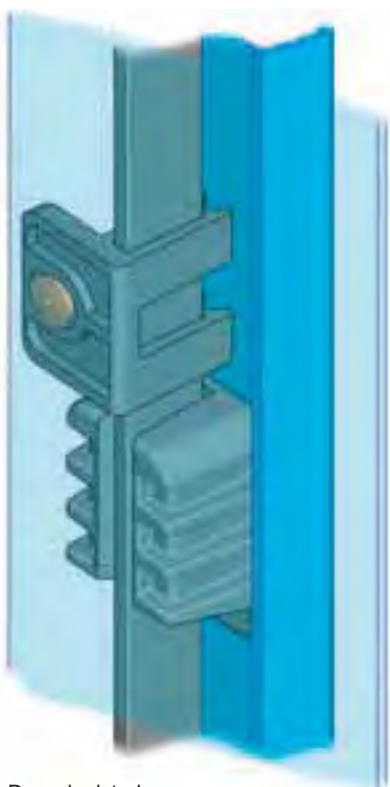
- Rod control 3YA-120

Program 1150

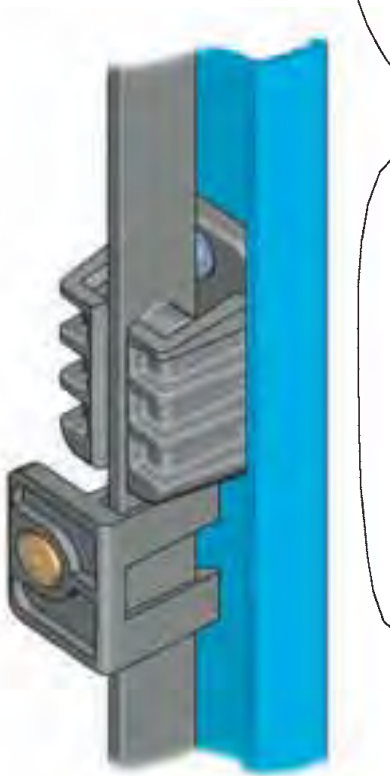
- Rod control 3YA-420

Program 2100

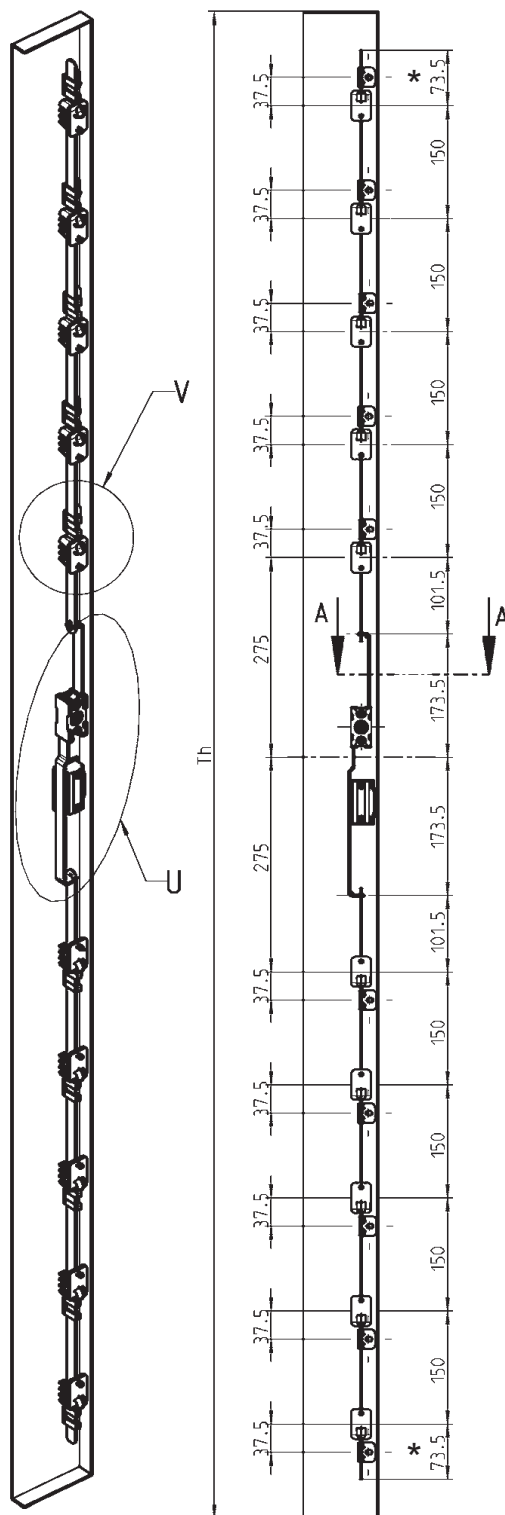
- Rod control 3YA-520



Door depicted
transparent

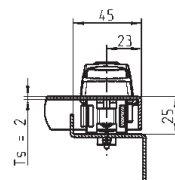


Depiction without door



Inside door representation

* = min length in case of shortened rods



3ZA-320

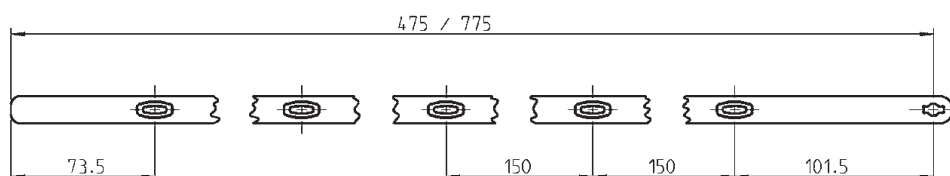
(3ZA-720)

Rod with locking slider see catalogue page 3ZA-340

Rods, Catches

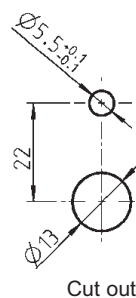
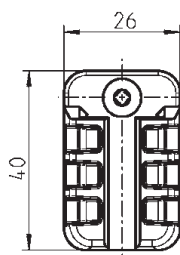
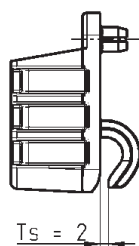
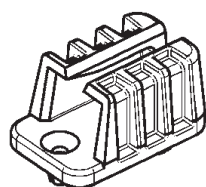
PROGRAM 1125, 1150, 1160, 1180, 1190, 1225, 2100

Beschlagteile



Rod with locking slider polyamide black

Door height Th	Locking points	Rod length	* = Rod has to be shortened!
800-1300	2-3	475 *	1121-115
1300-1600	3	475	1121-115
1600-1900	4-5	775 *	1121-115-01
1900-2200	5	775	1121-115-01



Further parts see page

– Rod guide 3ZC-120
3ZC-140

Program 1160

– Swinghandle and escutcheon 3D-120
3D-140

Program 1180

– Swinghandle and escutcheon 3E-120
3E-140

Program 1190

– Swinghandle 3F-120

Program 1125, 1150, 1225

– Rod control 3YA-120

Program 1150

– Rod control 3YA-420

Program 2100

– Rod control 3YA-520

Catch polyamide black

for counter sunk screw Ø 3,5 x 13

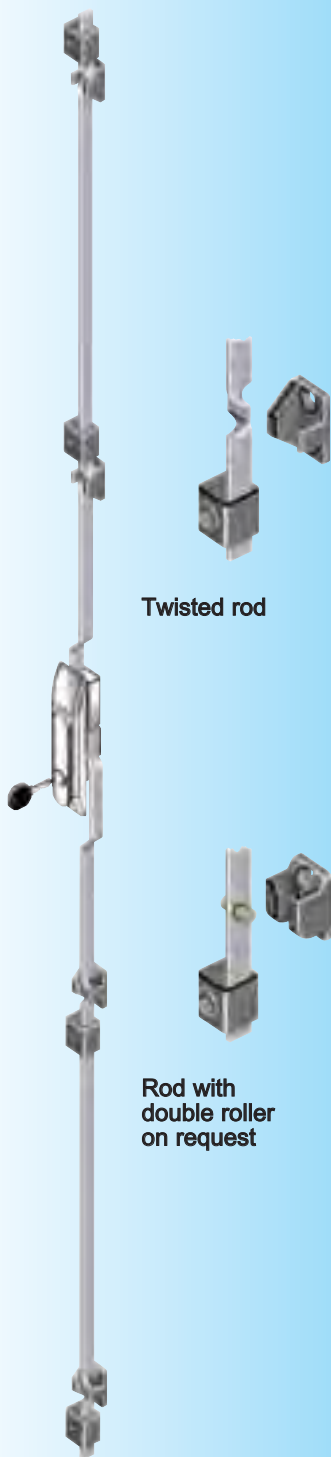
1121-116-01

Counter sunk screw 3,5 x 13

000104

3ZA-340

(3ZA-740)



Further parts see page

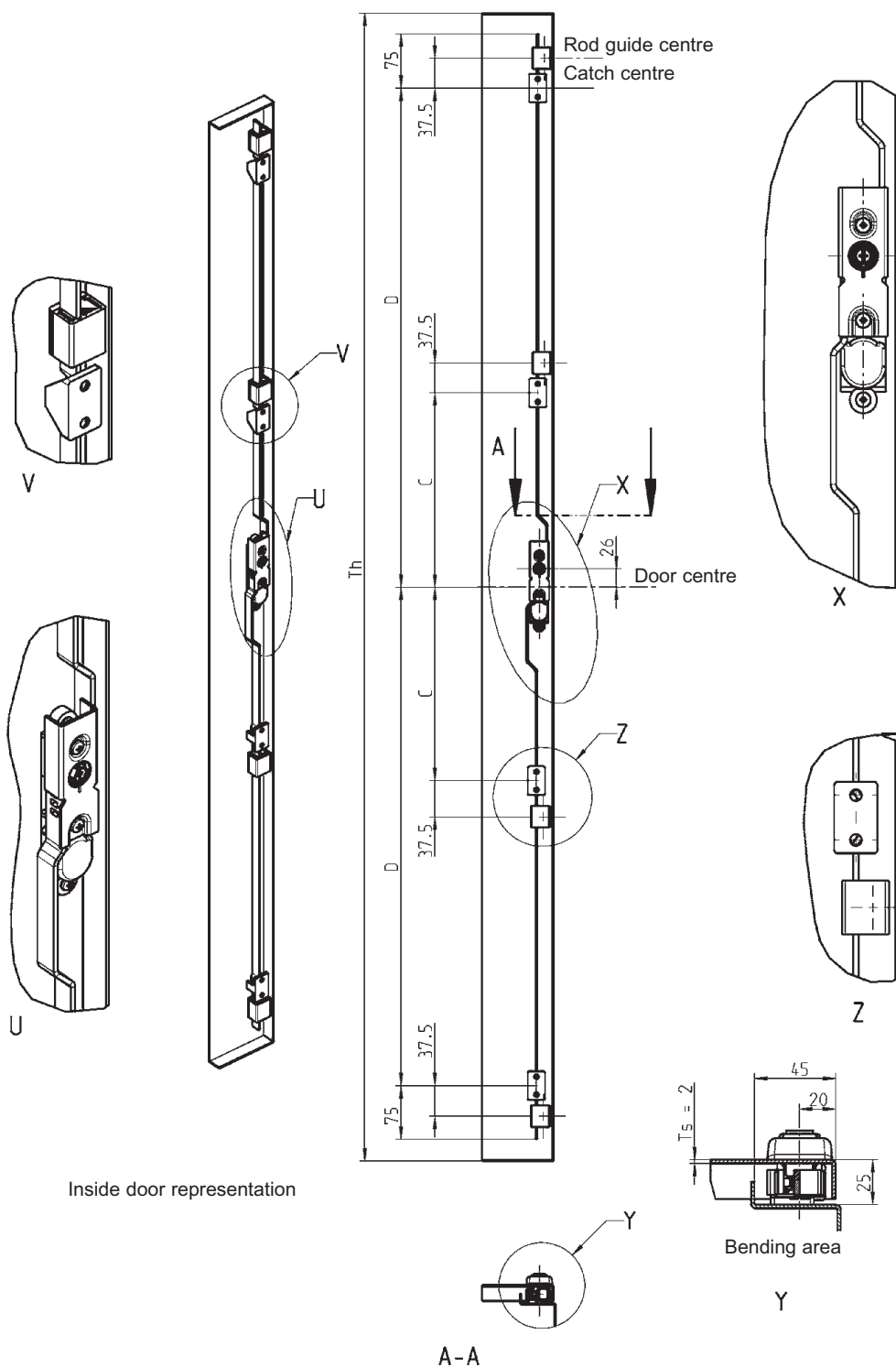
- Catches 3ZA-1220
- Rod guide 3ZC-120
- 3ZC-140

Program 1160

- Swinghandle and escutcheon 3D-220

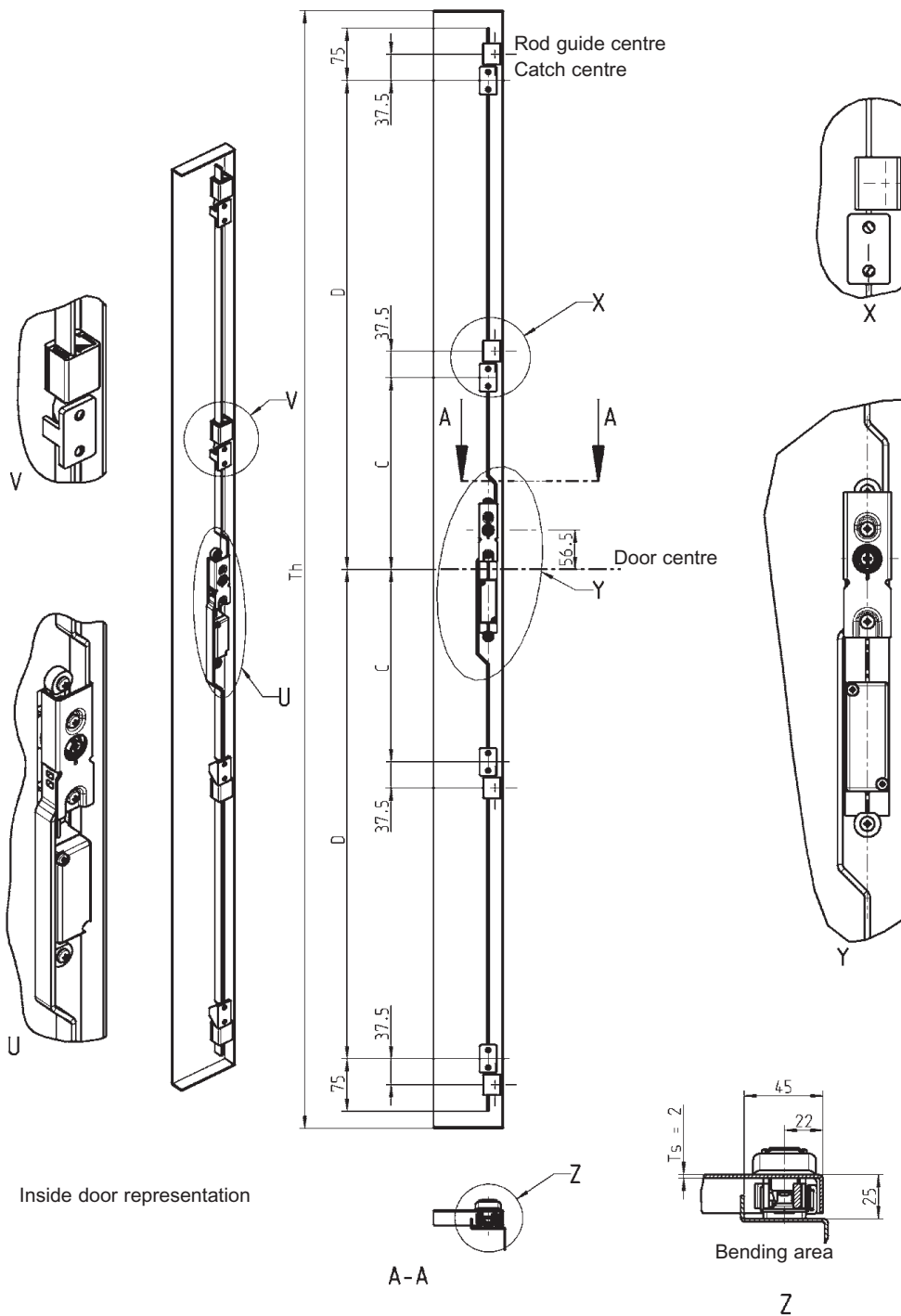
3ZA-420

(3M-420)



Door height	Locking points (door centre)		Part no. Rods Upper rod		Part no. Rods Lower rod	
	Dim. C	Dim. D	m.s. zinc pl.	alum.	m.s. zinc pl.	alum.
800-1200	–	300	1160-08-01RA	on request	1160-09-01RA	on request
1200-1600	–	450	1160-08-03RA	on request	1160-09-03RA	on request
1600-1900	275	700	1160-08-05RA	on request	1160-09-05RA	on request
1900-2200	275	850	1160-08-07RA	on request	1160-09-07RA	on request

Twisted rod PROGRAM 1180



Twisted rod

Rod with double roller on request



Door height Th	Locking points (door centre)		Part no. Rods Upper rod		Part no. Rods Lower rod	
	Dim. C	Dim. D	m.s. zinc pl.	alum.	m.s. zinc pl.	alum.
800-1200	–	300	1180-08-01RA	on request	1180-09-01RA	on request
1200-1600	–	450	1180-08-03RA	on request	1180-09-03RA	on request
1600-1900	275	700	1180-08-05RA	on request	1180-09-05RA	on request
1900-2200	275	850	1180-08-07RA	on request	1180-09-07RA	on request

Further parts see page

- Catches 3ZA-1220
- Rod guide 3ZC-120
- 3ZC-140

Program 1180

- Swinghandle and escutcheon 3E-220

3ZA-520

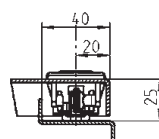
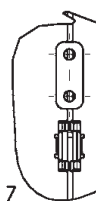
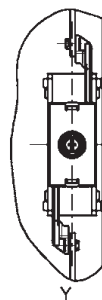
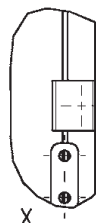
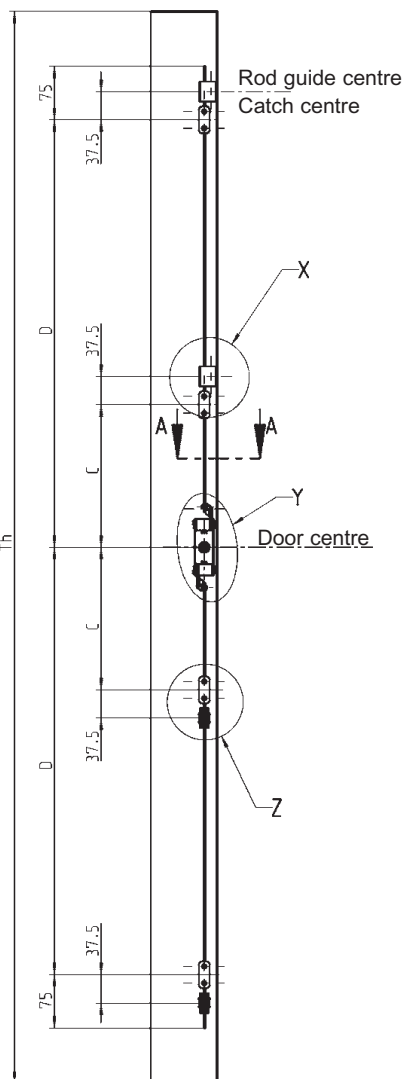
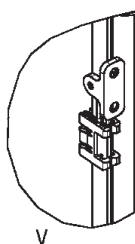
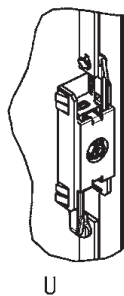
(3P-420)



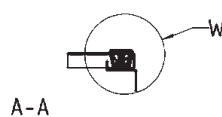
STAINLESS STEEL



Rod with cut out



Inside door representation



Bending area

W

Further parts see page

- Catches 3ZA-1220
- Rod guide 3ZC-120
- 3ZC-140

Program 2300

- Escutcheon 3J-120

3ZA-620

(3L-420)

Door height	Locking points (door centre)		Part no. Rods Upper and Lower	
	Dim. C	Dim. D	m.s. zinc pl.	AISI 304
Th				
800-1200	–	300	2300-06-11RA	on request
1200-1600	–	450	2300-06-13RA	on request
1600-1900	275	700	2300-06-15RA	on request
1900-2200	275	850	2300-06-17RA	on request

twisted rod PROGRAM 2400

EMKA

Info

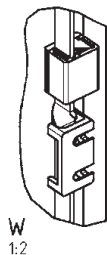
Beschlagteile

1 Quarter turns

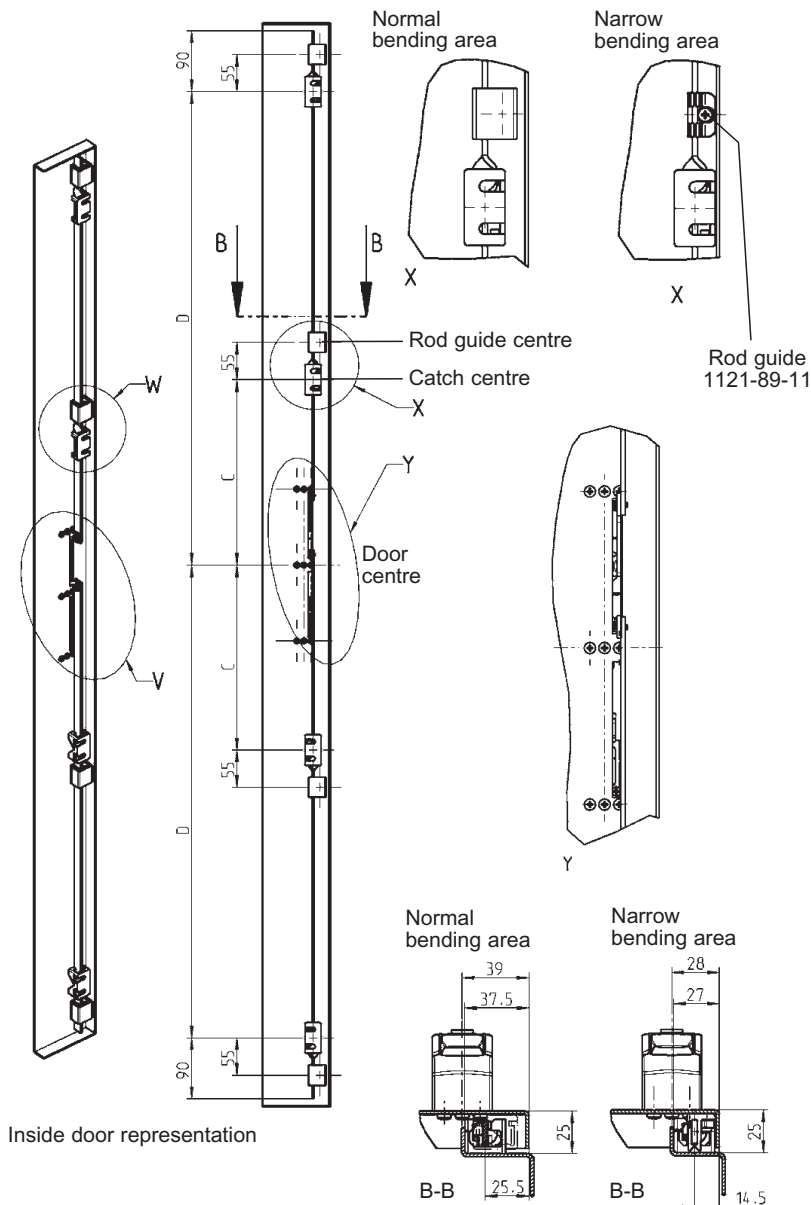
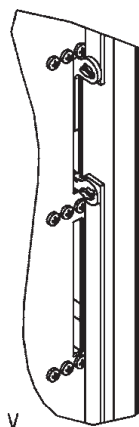
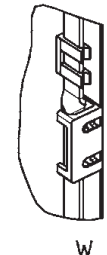
2 Rod controls

3 Locking systems

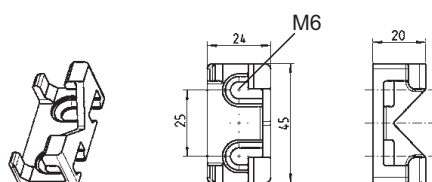
Normal bending area



Narrow bending area



Door height Th	Locking points (door centre)		Part no. Rod	
	Dim. C	Dim. D	upper of steel	lower of steel
800-1200	—	300	2400-U5-01	2400-U5-02
1200-1600	—	450	2400-U5-03	2400-U5-04
1600-1900	275	700	2400-U5-05	2400-U5-06
1900-2200	275	850	2400-U5-07	2400-U5-08



Catch zinc die black powder coated

2400-12

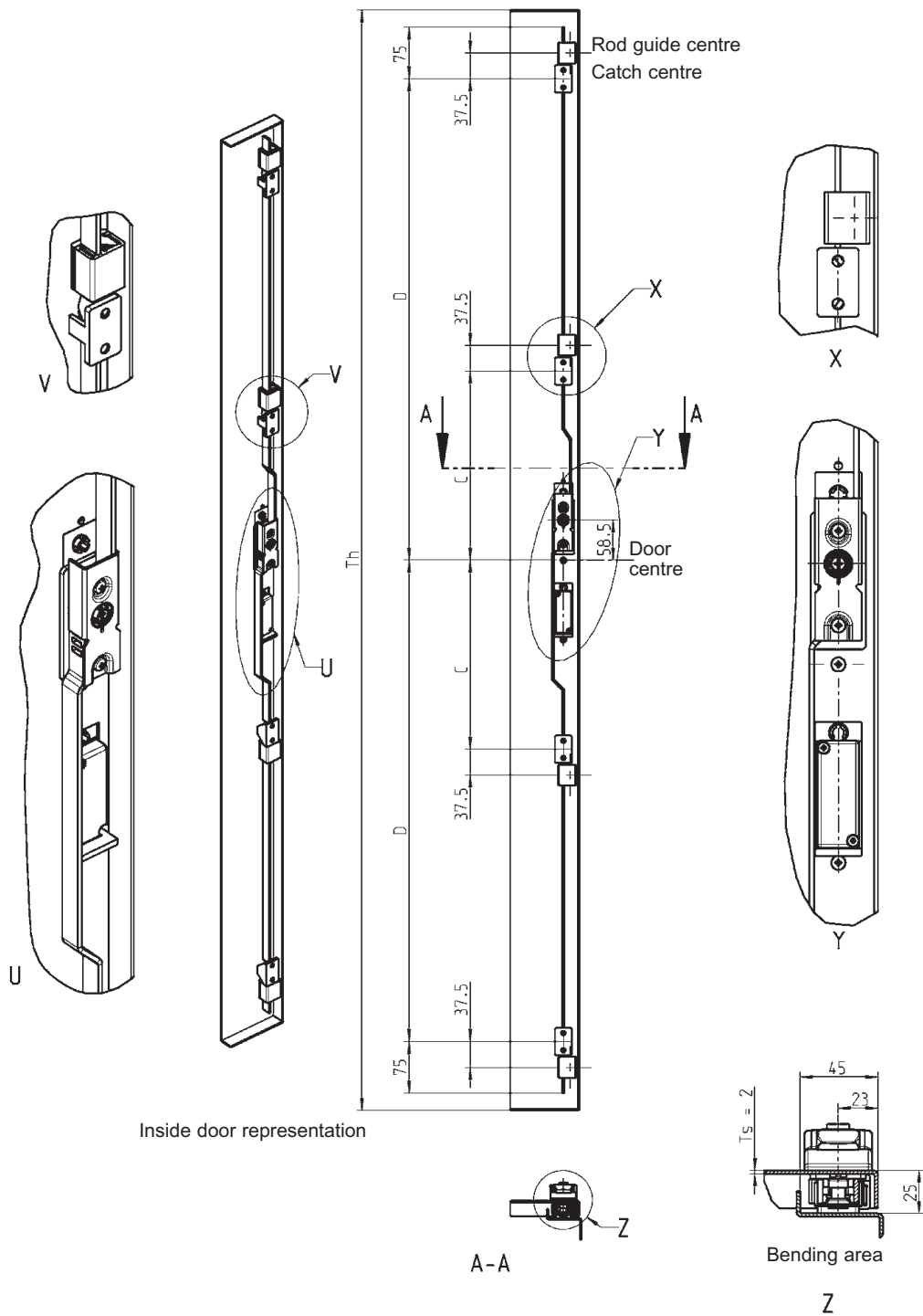
Further parts see page
– Rod guide

3ZC-120
3ZC-140

Program 2400
– Swinghandle

3K-120

3ZA-720 06/07
(3N-420)



Further parts see page

- Catches 3ZA-1220
- Rod guide 3ZC-120
- 3ZC-140

Program 2400

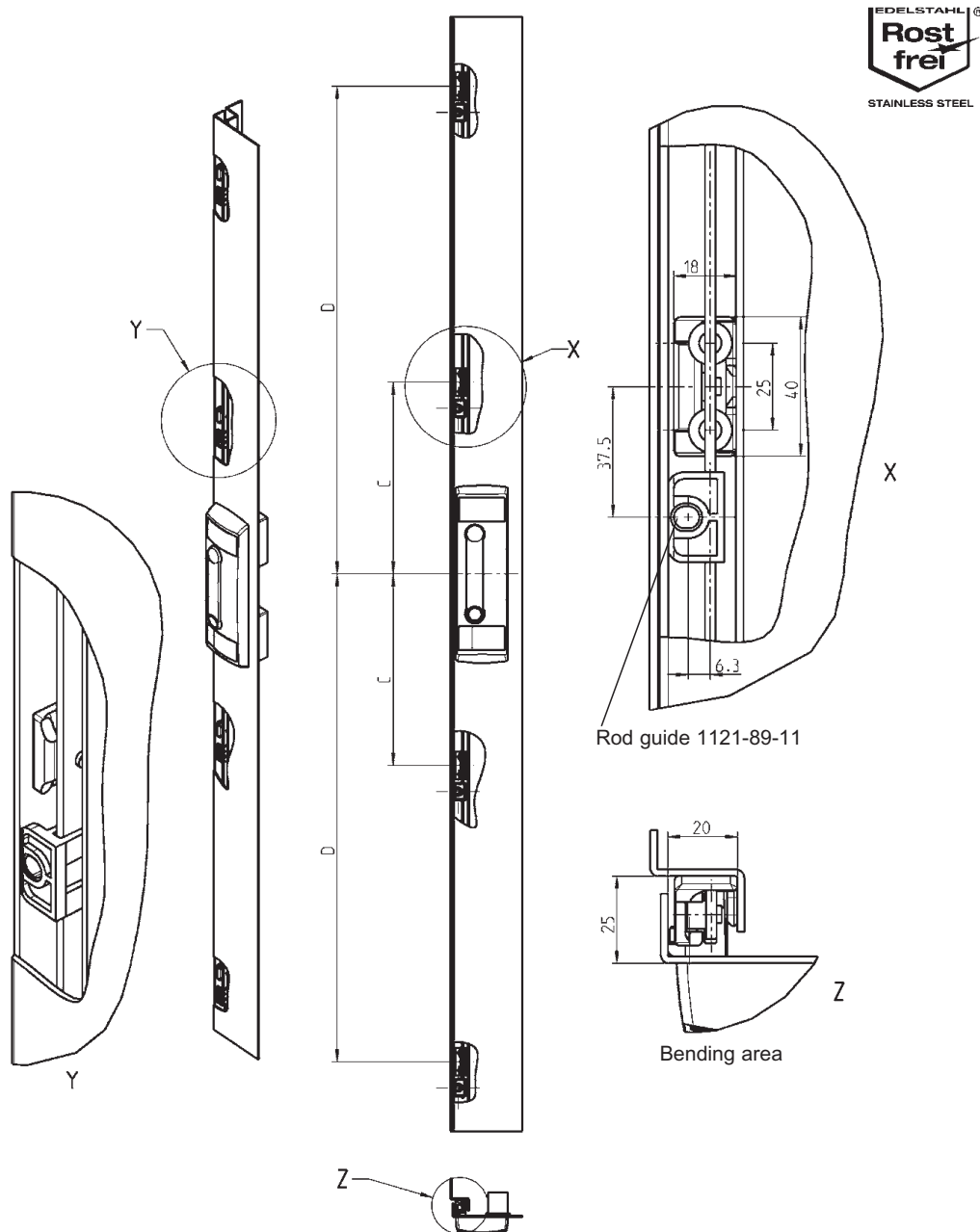
- Escutcheon 3K-220

3ZA-820

(3N-520)

Door height	Locking points (door centre)		Part No. Rods Upper rod		Part No. Rods Lower rod	
	Th	Dim. C	Dim. D	m.s. zinc pl.	alum.	m.s. zinc pl.
800-1200	–	300	2400-19-01RA	on request	2400-18-01RA	on request
1200-1600	–	450	2400-19-03RA	on request	2400-18-03RA	on request
1600-1900	275	700	2400-19-05RA	on request	2400-18-05RA	on request
1900-2200	275	850	2400-19-07RA	on request	2400-18-07RA	on request

Rod with roller PROGRAM 2600



Catch zinc die black powder coated

2600-12

Rods m.s. zinc plated with roller (alu and AISI 304 on request)

Door height	Locking points (door centre)		Part No. Rod Upper rod	Part No. Rod Lower rod
	Dim. C	Dim. D	m.s.	m.s.
800-1200 one continuous rod	–	300	2600-U10-LI 2600-U10-RE	– –
1200-1600 two-piece rod	–	450	2600-U11-01-LI 2600-U11-01-RE	2600-U11-02-LI 2600-U11-02-RE
1600-1900 two-piece rod	275	700	2600-U12-01-LI 2600-U12-01-RE	2600-U12-02-LI 2600-U12-02-RE
1900-2200 two-piece rod	275	850	2600-U13-01-LI 2600-U13-01-RE	2600-U13-02-LI 2600-U13-02-RE

Further parts see page
– Rod guide 3ZC-120
(please only use 1121-89-11)

Program 2600
– Swinghandle 3L-120

3ZA-920

(3S-420)

Notes:

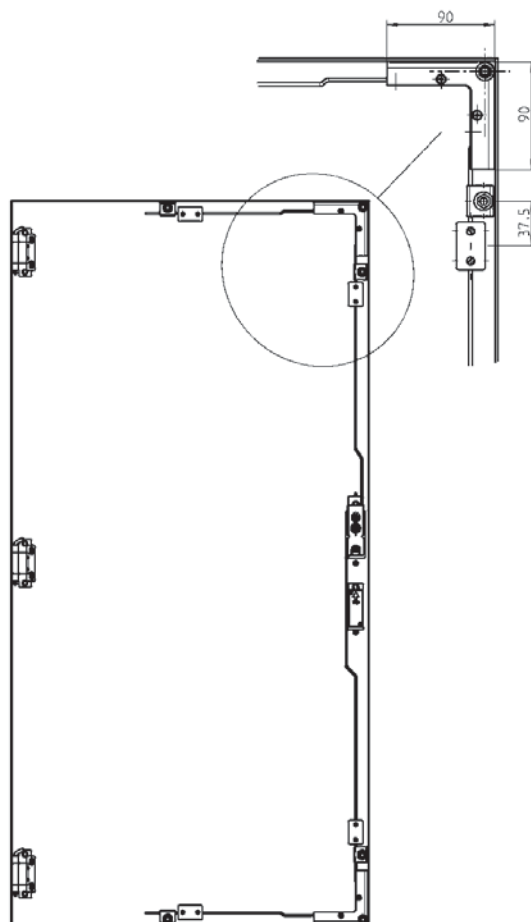
90° Turn for rods

PROGRAM 1125, 1150, 1160, 1180, 1190, 1225, 2100

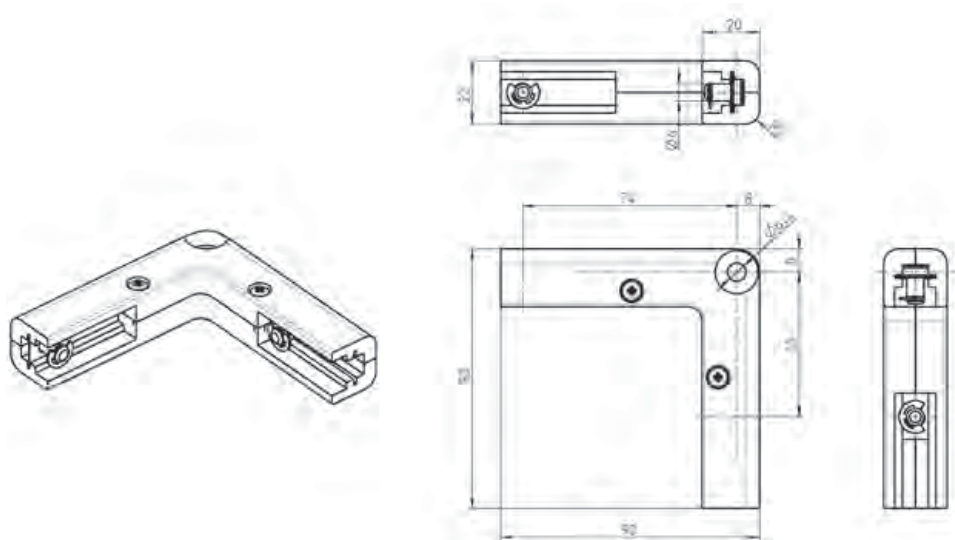
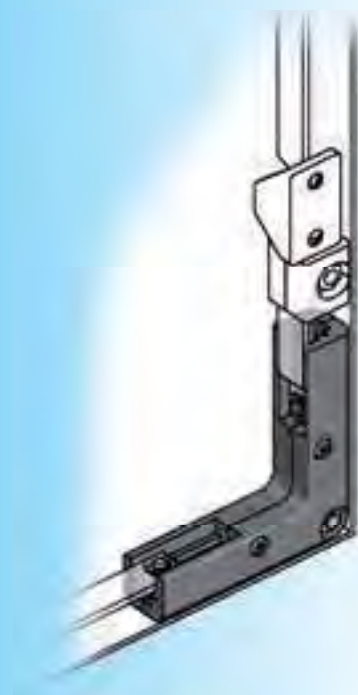
Beschlagteile



Door pictured transparent



Inside door representation



Rods suitable for program 1125, 1150, 1160, 1180, 1190, 1225, 2100, 2300, 2400 and 2600 individually on request!

Further parts see page
– Rods without 90° turn 3ZA-120

90° turn polyamide black, drive spring steel zinc plated

for weld stud M6x20

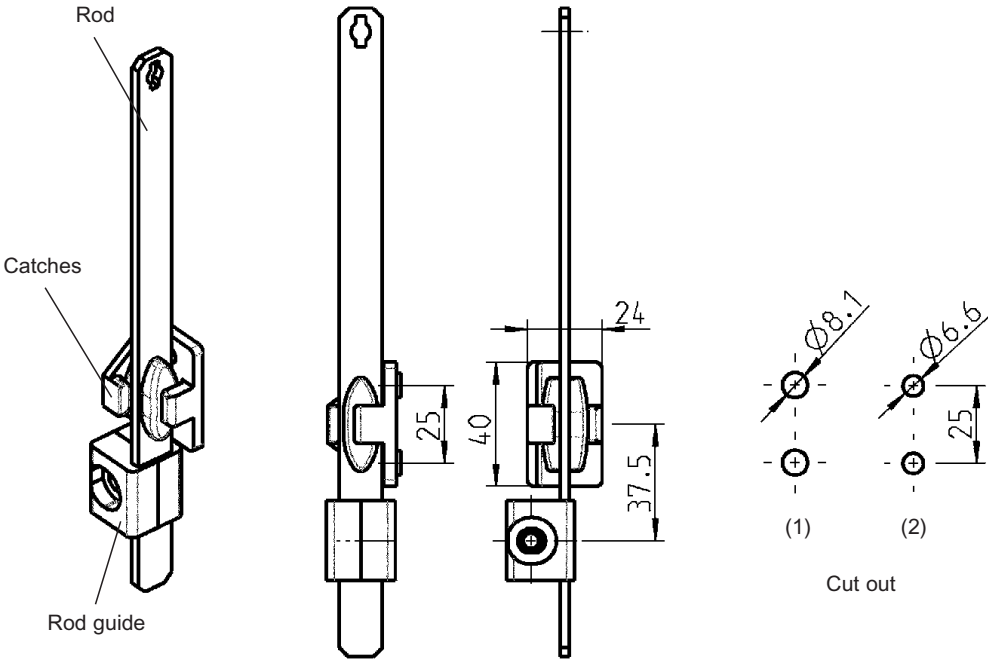
1121-U170

3ZA-1120

(3ZA-420)

Catches

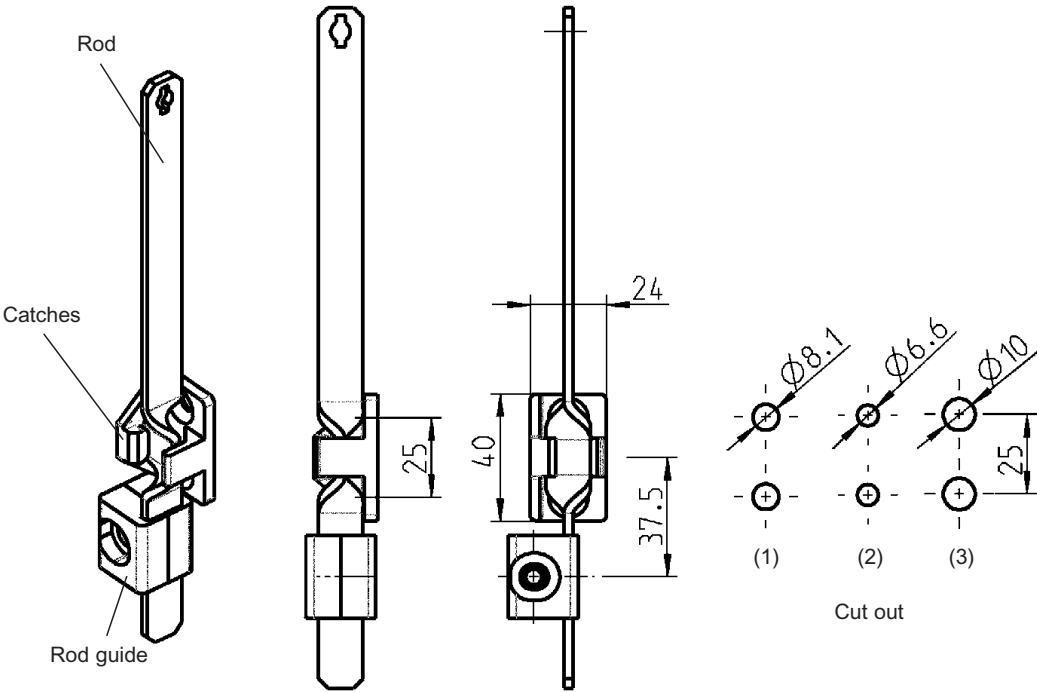
PROGRAM 1125, 1150, 1160, 1180, 1225, 2100, 2300, 2400, 2600



Catch interchangeable with hinge 120°, catalogue page 4A-190 or hinge 180° catalogue page 4A-210

Catch zinc die black powder coated for rod with locking slider

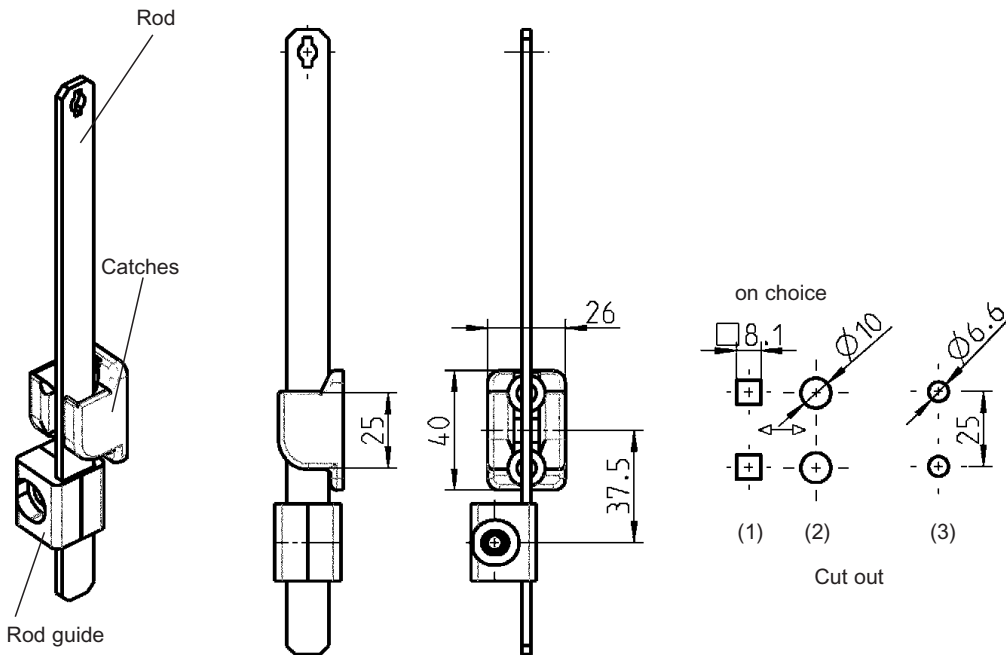
with M6 female thread	(1)	1121-54-P
for counter sunk screw M6 (2D-nut applicable)	(2)	1121-53-P



Catch interchangeable with hinge 120°, catalogue page 4A-190 or hinge catalogue page 4A-210

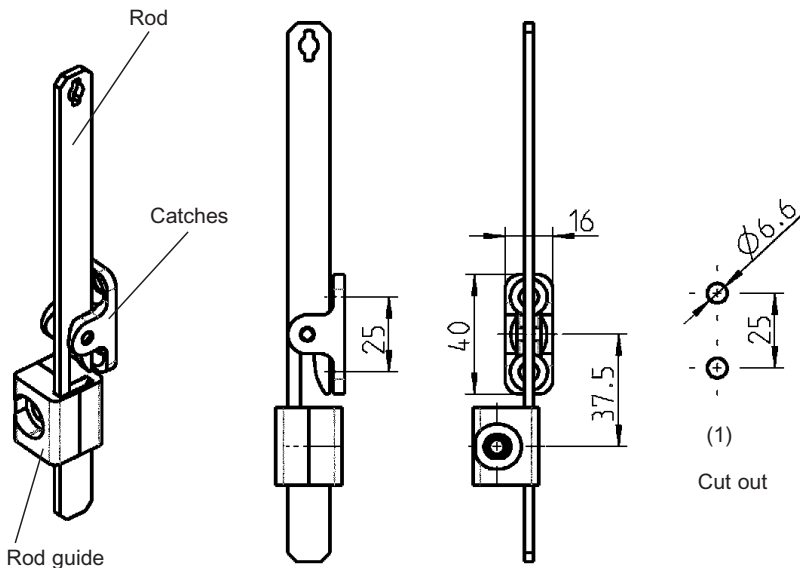
Catch zinc die black powder coated for twisted rod

with M6 female thread	(1)	1121-70-01
for counter sunk screw M6 (2D-nut applicable)	(2)	1121-70
with clamping pin, polyamide black, Ts = 2,0	(3)	1121-U137
with M10 outside thread, nut m.s. zinc plated	(3)	1121-U152



Catch zinc die black powder coated for rod with double roller

with M6 female thread	(1) (2)	1121-18-01
for counter sunk screw (2D-nut applicable)	(3)	1121-18-02



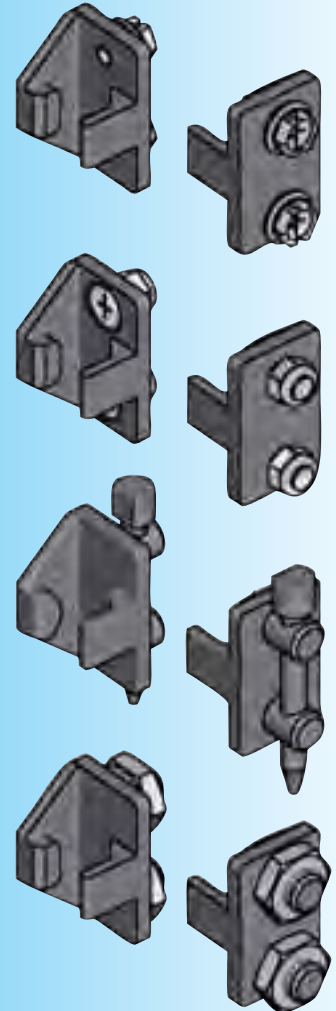
Catch interchangeable with hinge 120° catalogue page 4A-190 or hinge 180° catalogue page 4A-210

Catch zinc die black powder coated for rod with cut out

for counter sunk screw M6 (2D-nut applicable)	(1)	1121-U76
---	-----	----------



4 different fixing possibilities



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

Further parts see page

– 2D-nut 12E-120

Program 1125, 1150, 1160, 1180, 1190, 1225, 2100

– Rods 3ZA-120

Program 1160
– Rod locks 3ZA-420

Program 1180
– Lock rods 3ZA-520

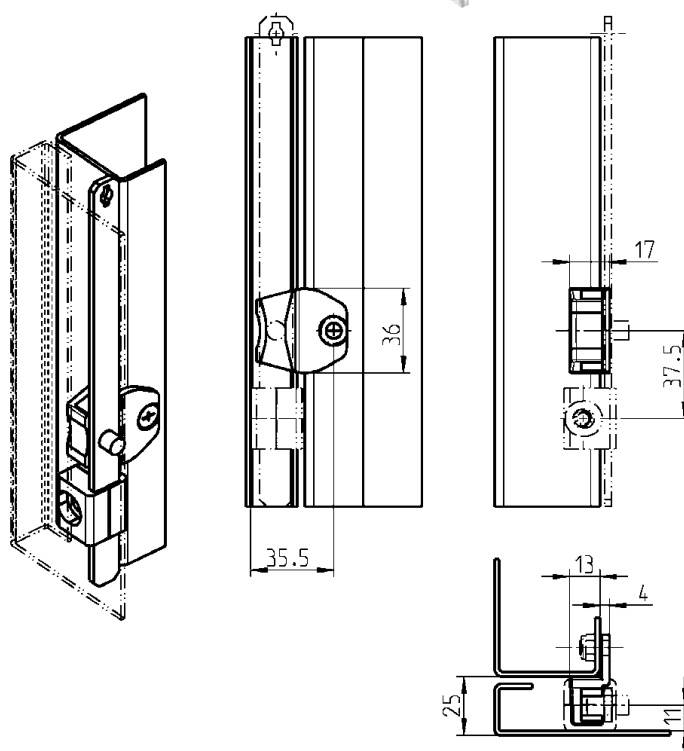
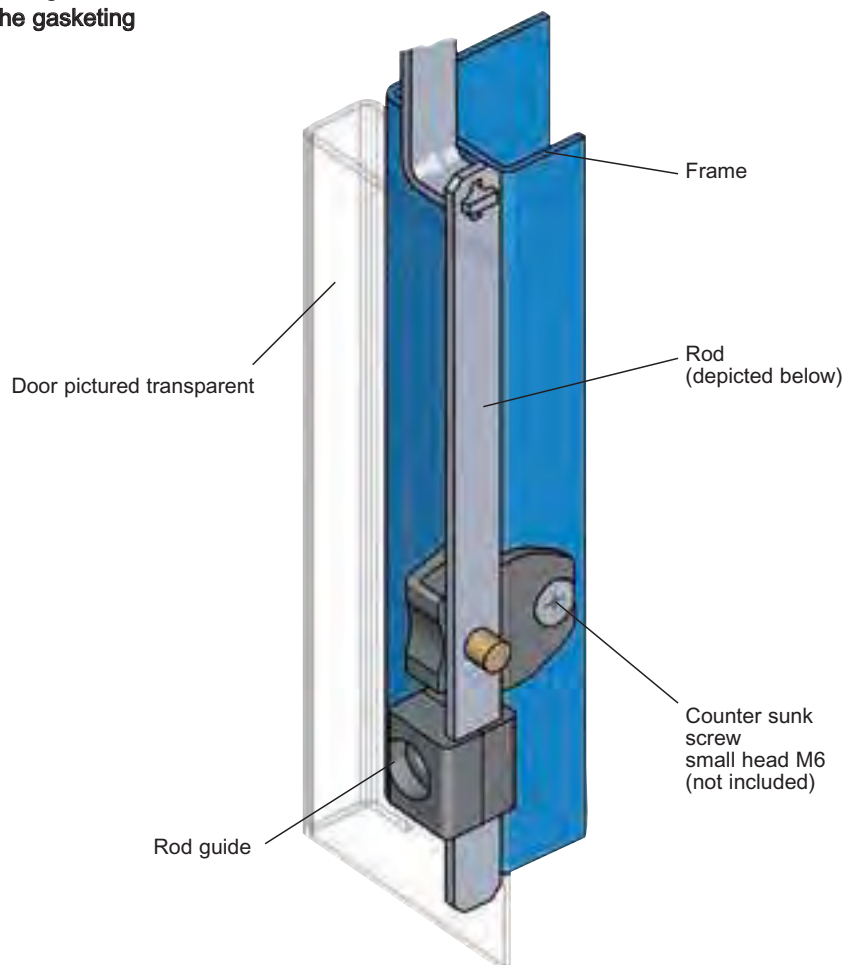
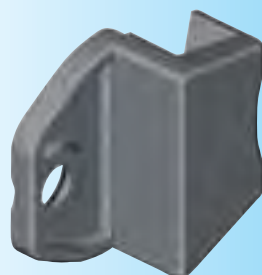
Program 2300
– Rods 3ZA-620

Program 2400
– Rods 3ZA-720
3ZA-820

Program 2600
– Rods 3ZA-920



Lateral fixing to the frame inside the gasketing



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

Further parts see page

Program 1125, 1150, 1160, 1180, 1190, 1225, 2100
– Rods 3ZA-260

Catch zinc die black powder coated

1121-108-AA

3ZA-1240

(3ZA-630)

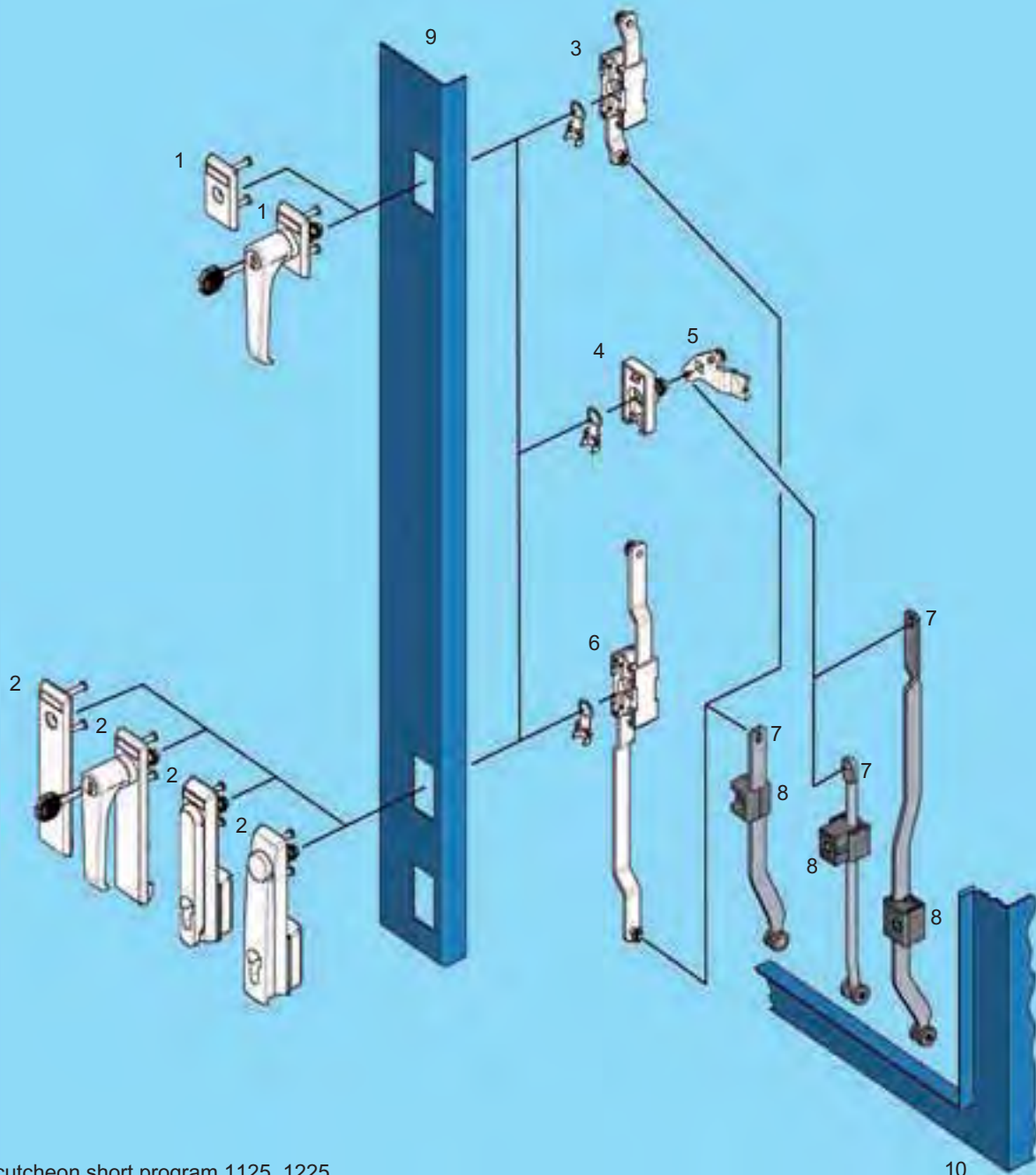
Rod inside the gasketing Program 1107, 1125, 1150, 1160, 1180, 1225, 2100

Info

1 Quarter turns

2 Rod controls

3 Locking
systems



- 1 Escutcheon short program 1125, 1225
- 2 Swinghandle and escutcheon long program 1107, 1125, 1150, 1160, 1180, 1225, 2100
- 3 Rod control
- 4 Bearing bush
- 5 Cam
- 6 Rod control
- 7 Rod (inside the gasketing)
- 8 Rod guide
- 9 Door
- 10 Cabinet/frame



3ZB-100

Rods

PROGRAM 1107, 1125, 1150, 1180, 1225, 2100, 2300

Application:

Program 1125, 1150, 1225

– Rod control 3YA-140
(Version B) 3YA-160
3YA-180
3YA-240

Program 1107, 1125, 1180, 1225, 2100

– Cam 3YB-420
3YB-440
3YC-120

Application:

Program 1125, 1150, 1225

– Rod control 3YA-140
(Version B) 3YA-160
3YA-180
3YA-240

Program 1107, 1125, 1180, 1225, 2100

– Cam 3YB-420
3YB-440
3YC-120

Application:

Program 1125, 1150, 1225

– Rod control 3YA-140
(Version B) 3YA-160
3YA-180
3YA-240

Program 1107, 1125, 1180, 1225, 2100

– Cam 3YB-420
3YB-440
3YC-120

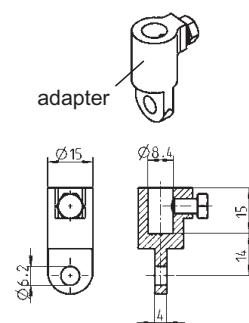
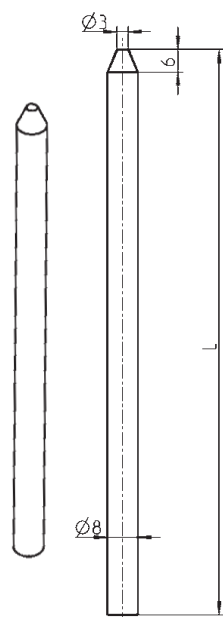
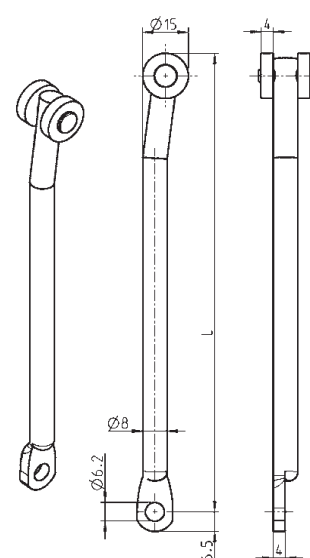
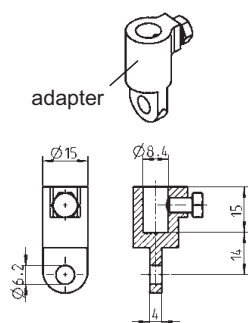
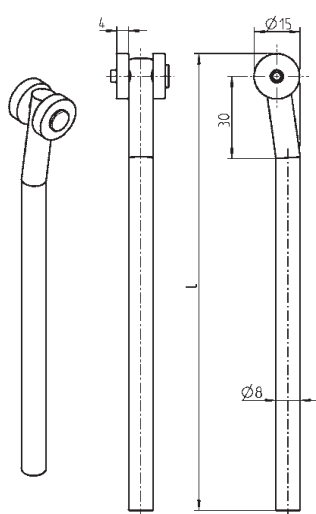
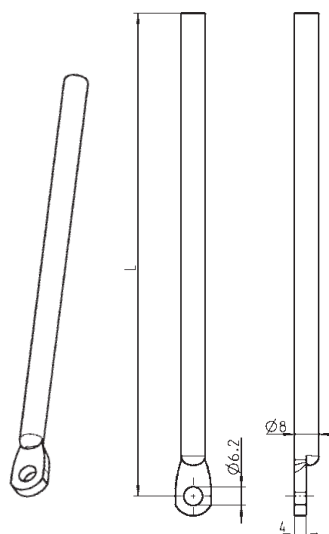
Application:

program 1125, 1150, 1225

– Rod control 3YA-140
(Version B) 3YA-160
3YA-180
3YA-240

Program 1107, 1125, 1180, 1225, 2100

– Cam 3YB-420
3YB-440
3YC-120



Round rod with eye m.s. zinc pl. L in mm

400	1000-33
500	1000-34
600	1000-35
700	1000-36
800	1000-37
900	1000-38
1000	1000-39
1100	1000-114
1200	1000-115

Round rod m.s. zinc plated or AISI 304 with roller polyamide black

L in mm	m.s. zinc pl.	AISI 304
600	1049-U3	1049-U12
700	1049-U4	1049-U13
800	1049-U5	1049-U14
900	1049-U6	1049-U15
1000	1049-U7	1049-U16
1100	1049-U8	1049-U17
1200	1049-U9	–
adapter	zinc die, m.s. zinc plated	AISI 303
	1000-U49	1000-U141

Round rod with eye, material on choice, rollers polyamide black

m.s. zinc plated for rod control

1121-U30-L mm
(1121-U30-01 to -08)
see price list

m.s. zinc plated for cam (Eye turned by 90°)

1000-U144-L mm
(1000-U144-01 to -17)
see price list

AISI 304 for cam (Eye turned by 90°)

1000-U538-L mm
(1000-U538-01 to -09)
see price list

Round rod with pointed end, m.s. zinc plated

1049-19-L mm
(1049-19-01 to -17)
see price list

Adapter zinc die zinc plated

1000-U49



Minimum order quantity: 200 pieces
Lower quantities on request!

L ≤ 1200

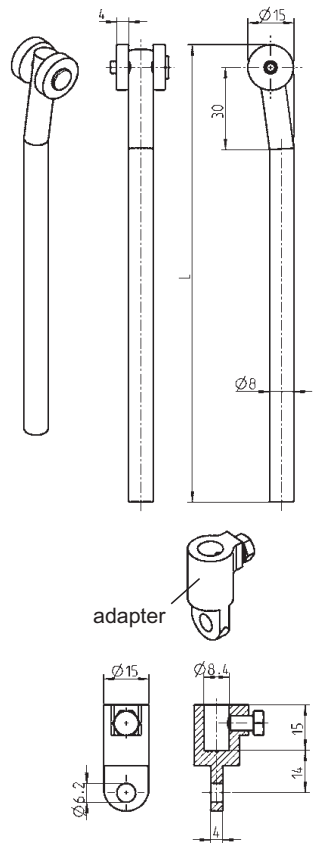
Order example: Articulenumber for a rod with rollers and a length of 1034 mm = 1049-U18-L 1034

Application:
program 1125, 1150, 1225

– Rod control
3YA-140
(Version B) 3YA-160
3YA-180
3YA-240

Program 1107, 1125, 1180, 1225, 2100

– Cam
3YB-420
3YB-440
3YC-120

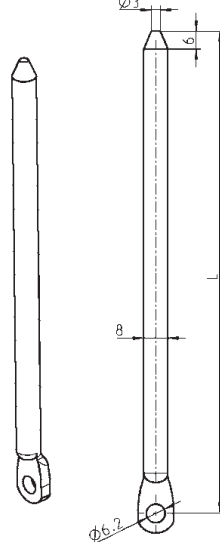


Application:
Program 1125, 1150, 1225

– Rod control
3YA-140
(Version B) 3YA-160
3YA-180
3YA-240

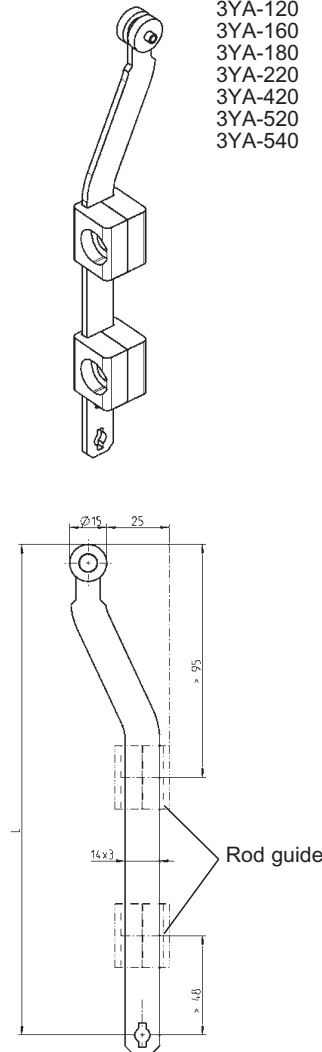
Program 1107, 1125, 1180, 1225, 2100

– Cam
3YB-420
3YB-440
3YC-120



Application:
Program 1125, 1150, 1160, 1180, 1225, 2100, 2300

– Rod control
3D-120
3D-140
3E-120
3E-140
3J-120
3YA-120
3YA-160
3YA-180
3YA-220
3YA-420
3YA-520
3YA-540



Round rod m.s.zinc plated, with rollers polyamide black

1049-U18-L mm
(1049-U18-01 to -17)
see price list

Adapter zinc die zinc pl.

1000-U49

Round rod with eye and pointed end, m.s. zinc plated

1000-211-L mm
(1000-211-01 to -17)
see price list

Flat rod m.s. zinc pl. with rollers polyamide black

1121-U28-L mm
(1121-U28-01 to -08)
see price list

Flat rod without hole L = 1007.5

1121-U148



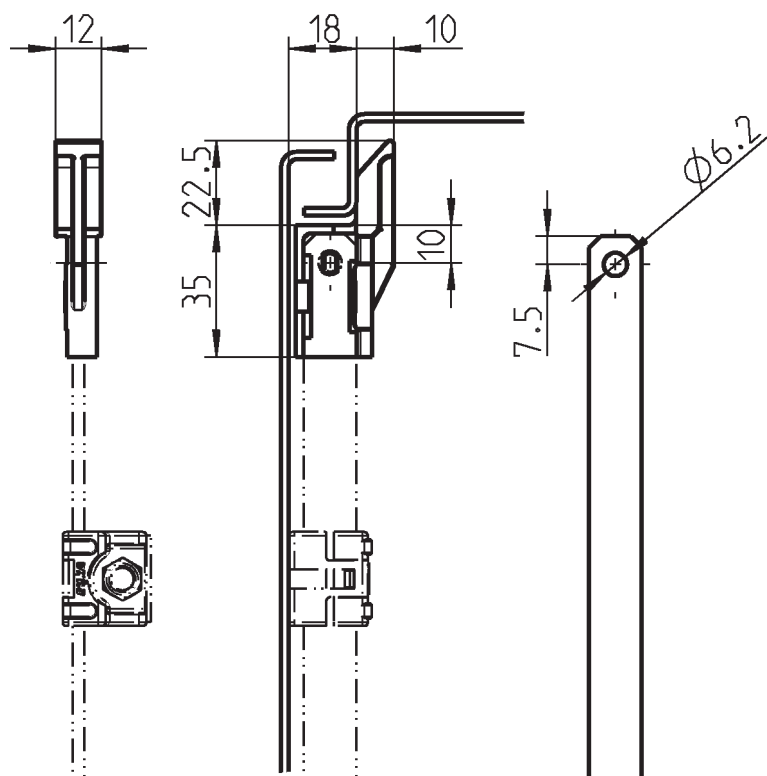
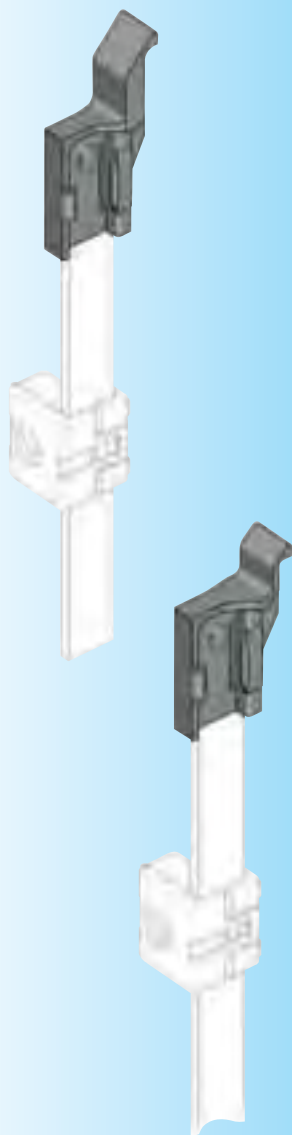
Further parts see page
Rod guide for
flat rods

– Round rods

3ZC-120
3ZC-140
3ZC-220

3ZB-120

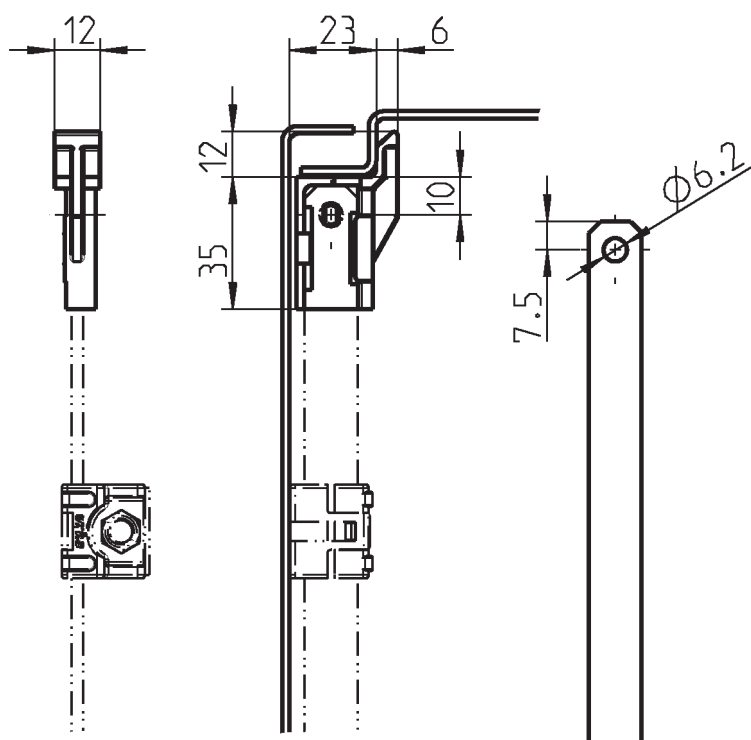
(3ZB-420)



Shoe polyamide black

long version

1121-112



Further parts see page

– Rod guide for flat rods
3ZC-120
3ZC-140

– Rod on request

Program 1125, 1150, 1160, 1180,
1225, 2100, 2300

– Rod control
3D-120
3D-140
3E-120
3E-140
3J-120
3YA-120
3YA-160
3YA-180
3YA-220
3YA-420
3YA-520
3YA-540

Shoe polyamide black

short version

1121-113

3ZB-220

(3ZB-620)

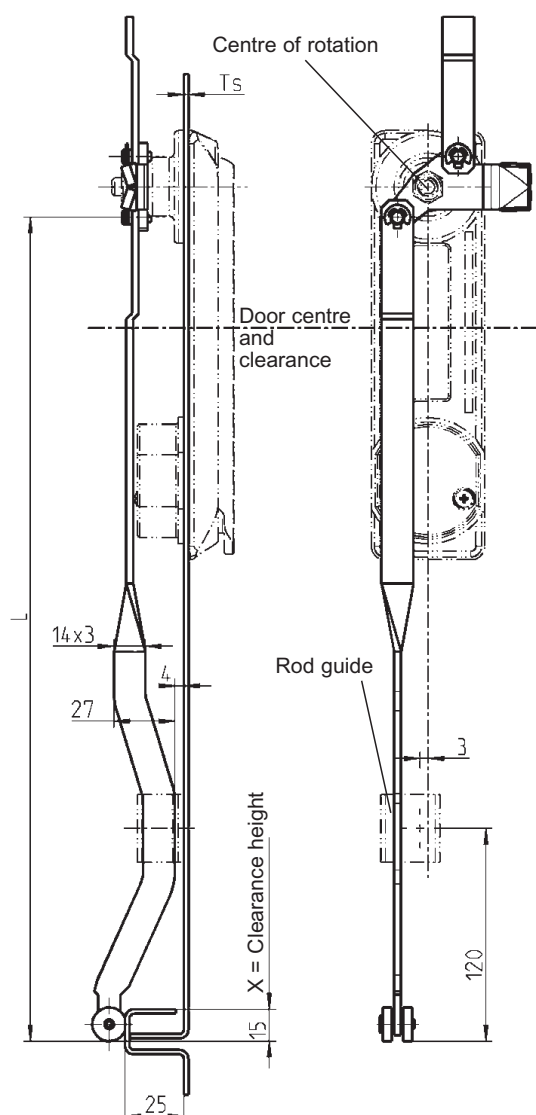
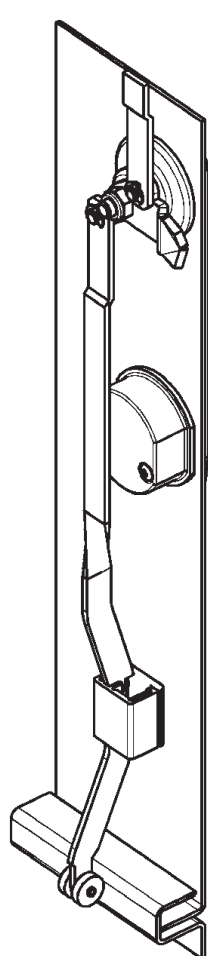
Rod for cam stroke 26 mm

PROGRAM 1107

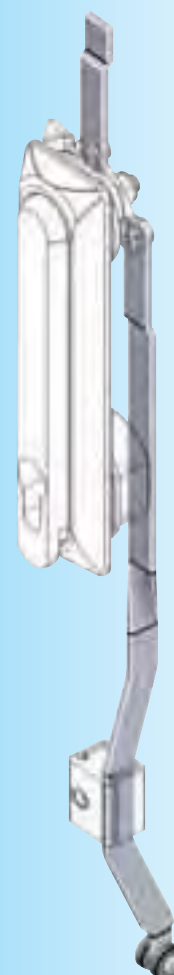
Minimum order quantity: 200 pieces

Lower quantities on request

How to find dim. L		Swinghandle	
		long	short
Upper rod	$L = \frac{X}{2}$	- 63	- 50,5
Lower rod	$L = \frac{X}{2}$	+ 67	+ 54,5
Centre of rotation on door centre, upper and lower rods are the same length		$L = \frac{X}{2} + 2$	



Ts = 2
other door gauges on request



Note:
Swinghandle with cut out
Hole distance
130 mm = long
105 mm = short

Further parts see page

– Rod guide 3ZC-120
3ZC-140

Program 1107

– Cam with stroke 26 3YC-120

Flat rod m.s. zinc pl. with rollers polyamide black

1121-U144-L mm
(1121-U144-01 to -08)
see price list

3ZB-320

(3G-440)

Rods for cams with stroke 26 mm PROGRAM 1125, 1225

Minimum order quantity: 200 pieces

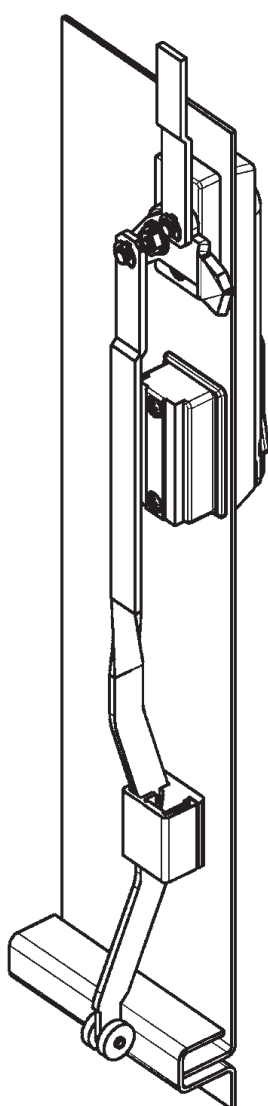
Lower quantities on request

How to find dimension L

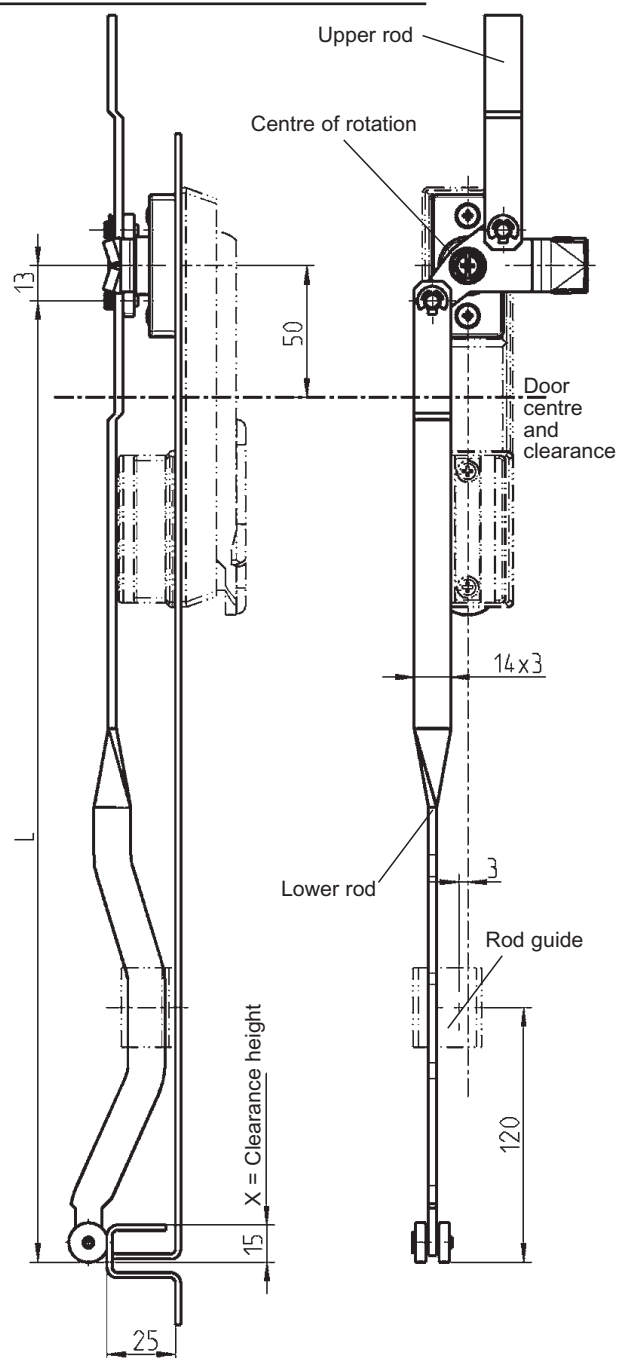
$$\text{Upper rod} \quad L = \frac{X}{2} - 48$$

$$\text{Lower rod} \quad L = \frac{X}{2} + 52$$

$$\text{Centre of rotation on door centre, upper and lower rods the same length} \quad L = \frac{X}{2} + 2$$



Ts = 2
Other door gauges
on request



Further parts see page

– Rod guide 3ZC-120
3ZC-140

Program 1125, 1225
– Cam with stroke 26 3YB-420

Flat rod m.s. zinc pl. with rollers polyamide black

1121-U144-L mm
(1121-U144-01 to -08)
see price list

3ZB-420

(3B-340)

Rods for cams with stroke 26 mm

PROGRAM 1125

Minimum order quantity: 200 pieces

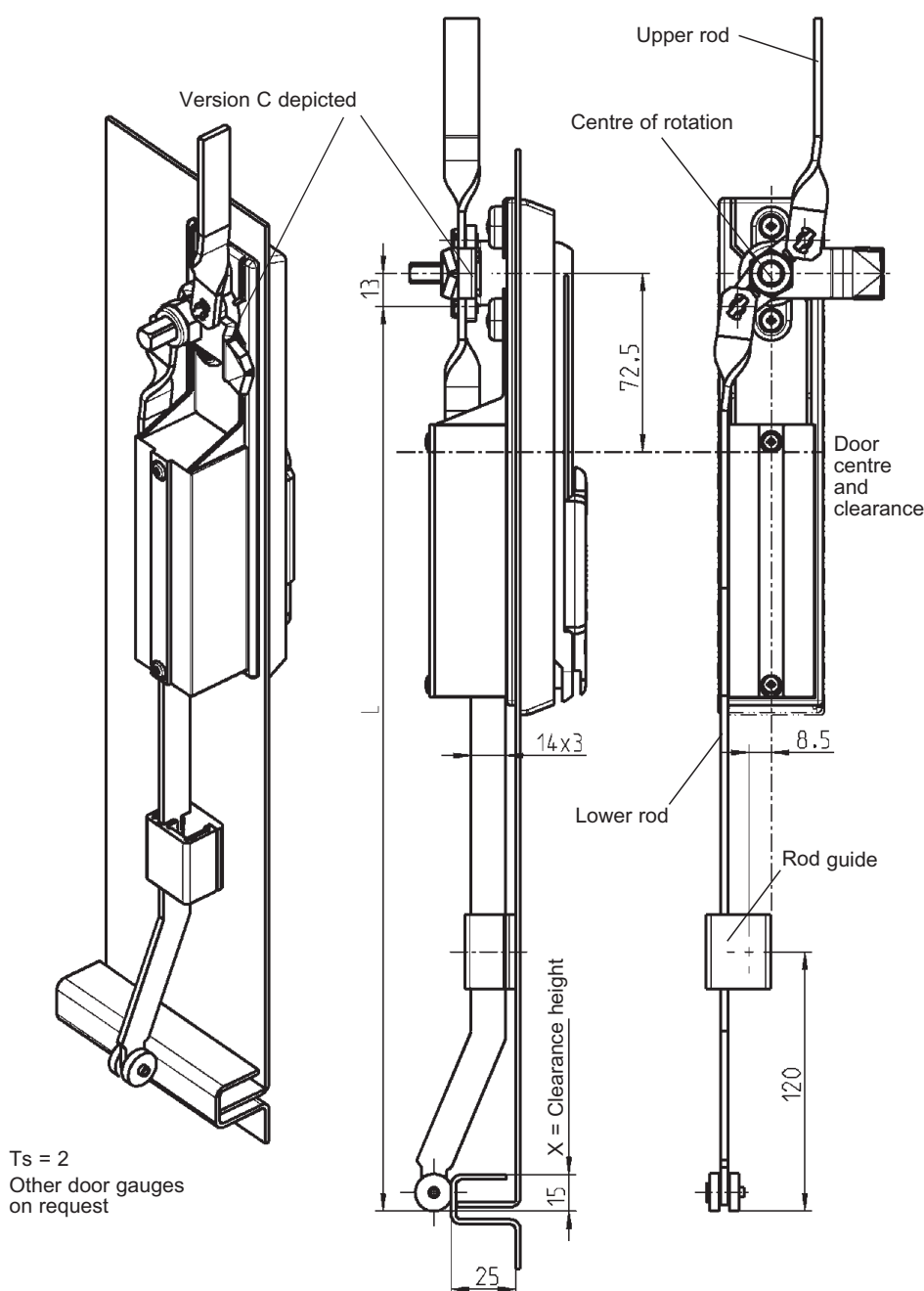
Lower quantities on request

How to find dim. L

$$\text{Upper rod} \quad L = \frac{X}{2} - 70,5$$

$$\text{Lower rod} \quad L = \frac{X}{2} + 74,5$$

$$\text{Centre of rotation on door centre, upper and lower rods the same length} \quad L = \frac{X}{2} + 2$$



Ts = 2
Other door gauges
on request

Flat rod m.s. zinc pl. with rollers polyamide black

LH	1121-U146-L mm	(1121-U146-01 to -08)
RH depicted	1121-U147-L mm	(1121-U147-01 to -08)
		see price list

EMKA

®

Info

1 Quarter turns

2 Rod controls

3 Locking systems

Beschlagteile



Further parts see page

– Rod guide 3ZC-120
3ZC-140

Program 1125

– Cam with stroke 26 3YC-120
3YC-140

3ZB-440

(3C-440)

Minimum order quantity: 200 pieces

Lower quantities on request

Swinghandle
(please see Note)

Calculation of rod length L:	Version	A	B
Upper rod	$L = \frac{X}{2}$	- 28	- 48
Lower rod	$L = \frac{X}{2}$	+ 32	+ 52
Centre of rotation on door centre, upper and lower rods are the same length	$L = \frac{X}{2} + 2$		



Note:

Calculation of rod version A or B suitable for

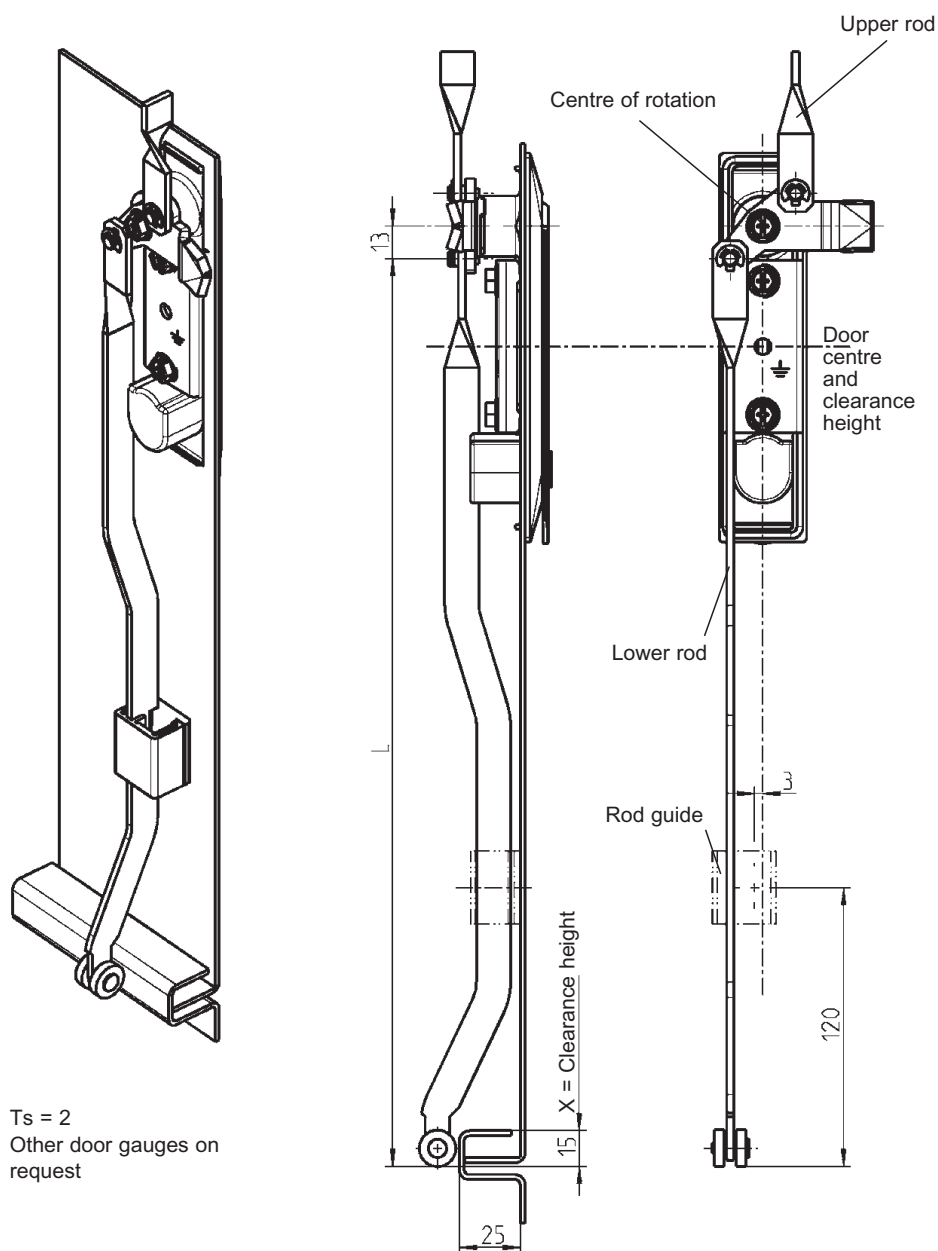
- Swinghandle 1150 3C-120 = A
- Swinghandle 1150 3C-120 = B
- Swinghandle 1150 3C-140 = B
- Swinghandle 1155 3C-620 = B

Further parts see page

- Rod guide 3ZC-120
- 3ZC-140

Program 1150

- Cam with stroke 26 3YC-120
- 3YC-140



Ts = 2

Other door gauges on request

Flat rod m.s. zinc pl. with rollers polyamide black

1121-U145-L mm
(1121-U145-01 to -08)
see price list

Rods for cams with stroke 26 mm

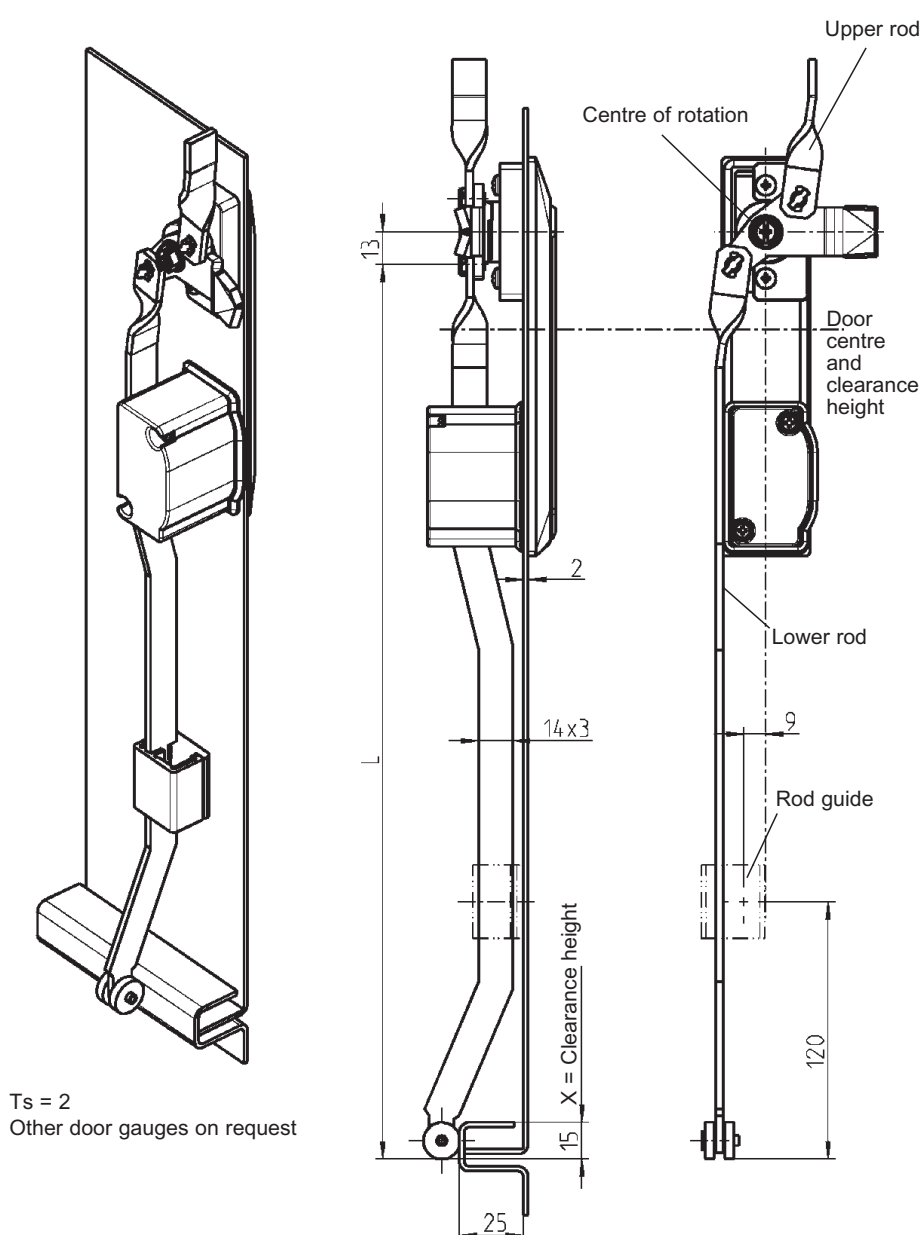
PROGRAM 1150

Minimum order quantity: 200 pieces

Lower quantities on request

Swinghandle
(please see Note)

Calculation of rod length L:	Version	A	B
Upper rod	$L = \frac{X}{2}$	- 48	- 70,5
Lower rod	$L = \frac{X}{2}$	+ 52	+ 74,5
Centre of rotation on door centre, upper and lower rods are the same length	$L = \frac{X}{2} + 2$		



Ts = 2
Other door gauges on request

Flat rod m.s. zinc pl. with rollers polyamide black

LH	1121-U146-L mm	(1121-U146-01 to -08)
RH depicted	1121-U147-L mm	(1121-U147-01 to -08)
		see price list



Note:

Calculation of rod version A or B suitable for
 - Swinghandle 1154 3C-220 = A
 - Swinghandle 1153 3C-320 = A
 - Swinghandle 1151 3C-420 = B

Further parts see page

- Rod guide 3ZC-120
3ZC-140

Program 1150

- Cam with stroke 26 3YC-120
3YC-140

Rod for cams with stroke 26 mm PROGRAM 1180

Minimum order quantity: 200 pieces

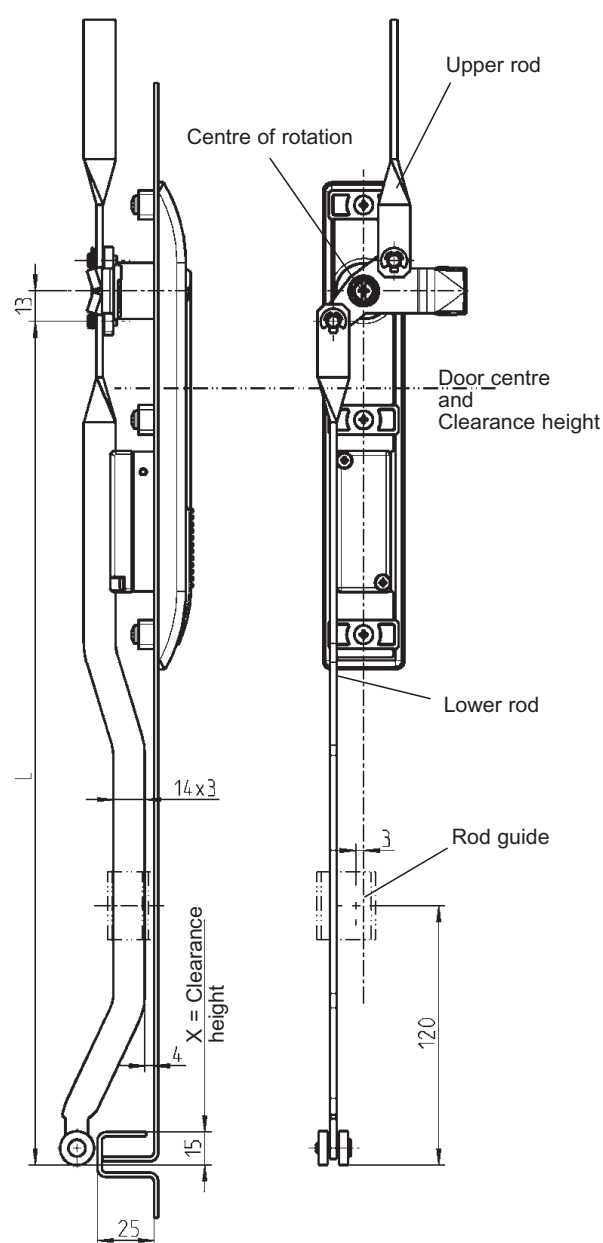
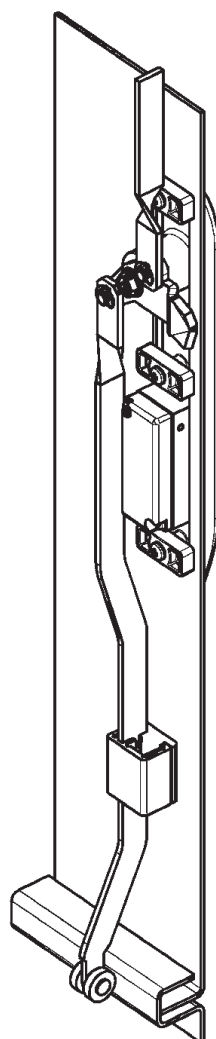
Lower quantities on request

How to find dim. L

$$\text{Upper rod} \quad L = \frac{X}{2} - 55$$

$$\text{Lower rod} \quad L = \frac{X}{2} + 59$$

$$\text{Centre of rotation on door centre, upper and lower rods are the same length} \quad L = \frac{X}{2} + 2$$



Ts = 2
other door gauges
on request!

Further parts see page

– Rod guide 3ZC-120
3ZC-140

Program 1180

– Cam with stroke 26 3YC-140

Flat rod m.s. zinc pl. with rollers polyamide black

1121-U145-L mm
(1121-U145-01 to -08)
see price list

3ZB-620

(3P-500)

Rods for cams with stroke 26 mm

PROGRAM 1225

Minimum order quantity: 200 pieces

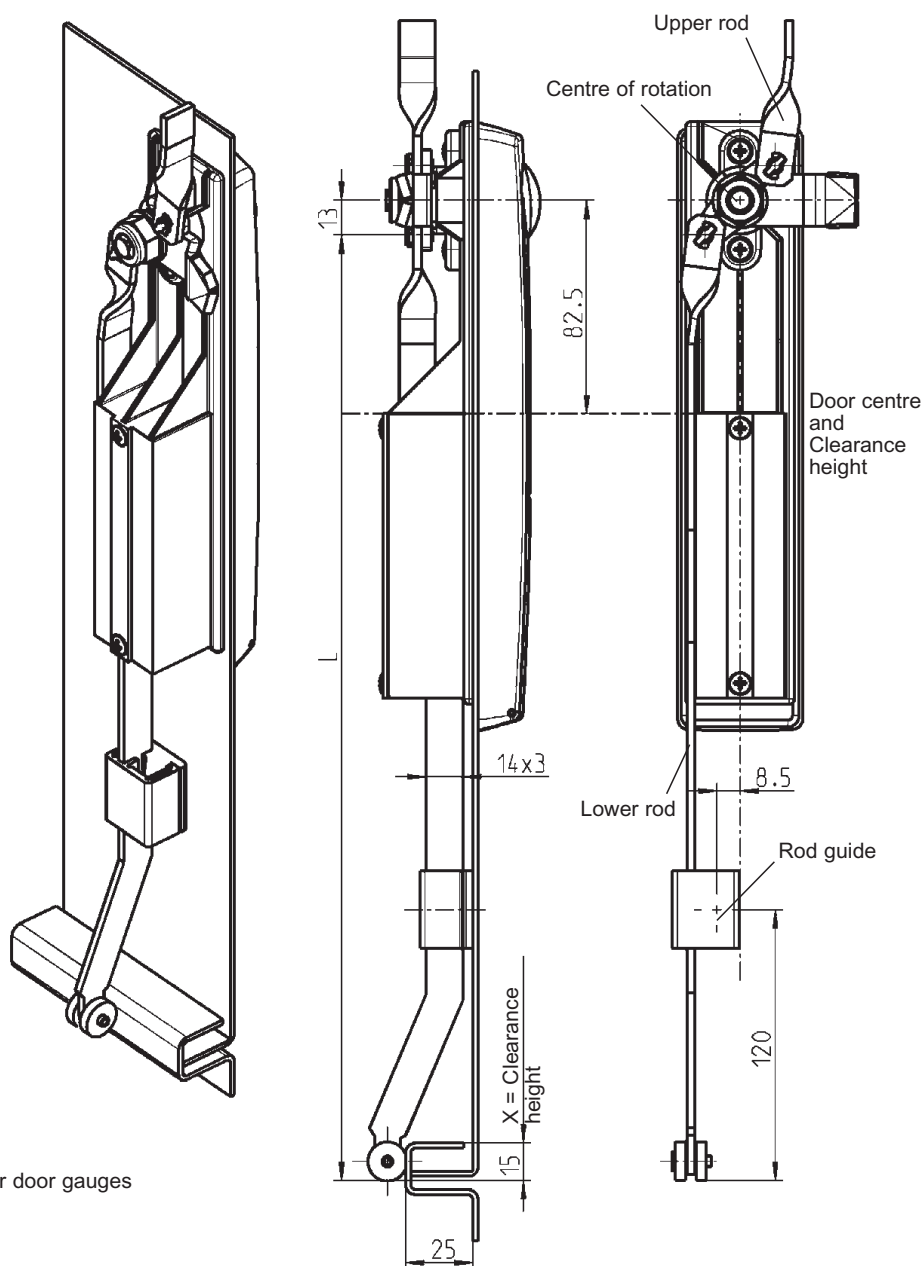
Lower quantities on request

How to find dim. L

$$\text{Upper rod} \quad L = \frac{X}{2} - 80,5$$

$$\text{Lower rod} \quad L = \frac{X}{2} + 84,5$$

$$\text{Centre of rotation on door centre, upper and lower rods are the same length} \quad L = \frac{X}{2} + 2$$



Ts 2
other door gauges

Flat rod m.s. zinc pl. with rollers polyamide black

LH	1121-U146-L mm	(1121-U146-01 to -08)
RH side depicted	1121-U147-L mm	(1121-U147-01 to -08)
		see price list



Further parts see page

– Rod guide 3ZC-120
3ZC-140

Program 1225

– Cam with stroke 26 3YC-140

Rods for cams with stroke 26 mm PROGRAM 2100

Minimum order quantity: 200 pieces

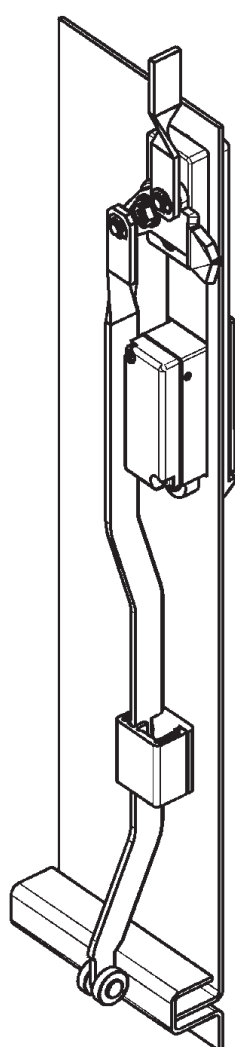
Lower quantities on request

How to find dim. L

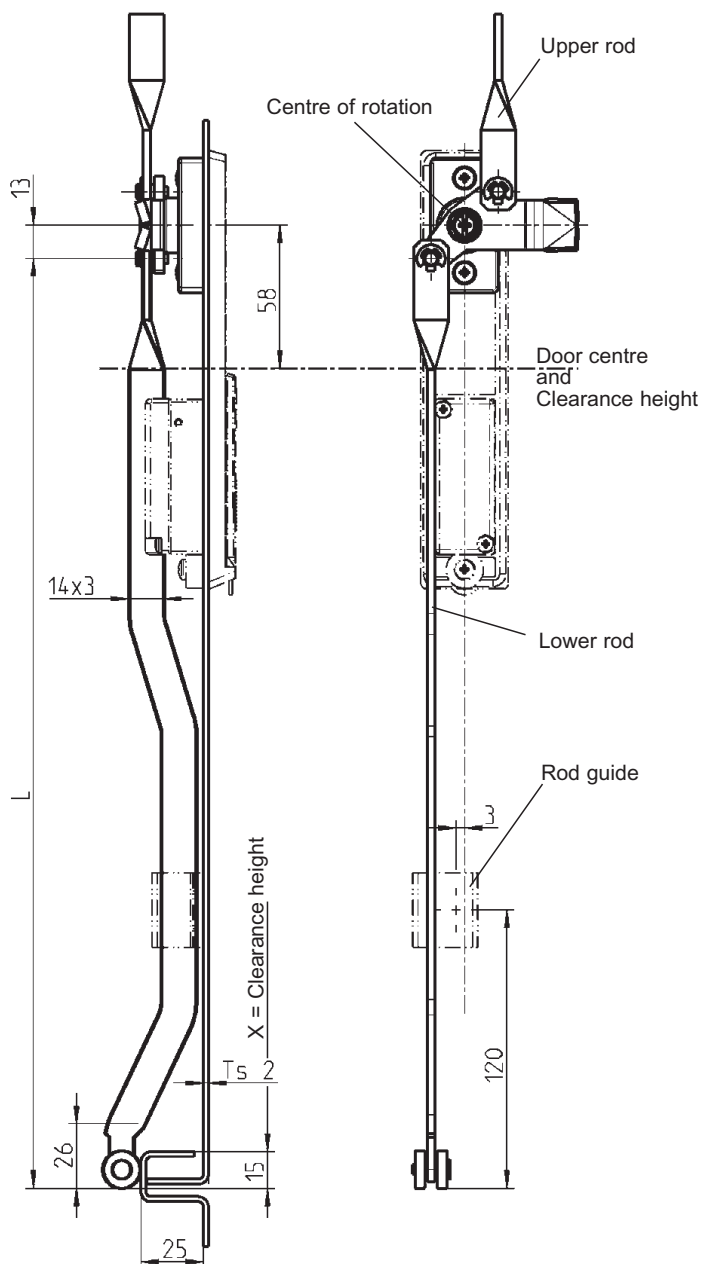
Upper rod	$L = \frac{X}{2} - 56$
-----------	------------------------

Lower rod	$L = \frac{X}{2} + 60$
-----------	------------------------

Centre of rotation on door centre, upper and lower rods are the same length	$L = \frac{X}{2} + 2$
---	-----------------------



Ts 2
other door gauges on request



Further parts see page

– Rod guide 3ZC-120
3ZC-140

Program 2100

– Cam with stroke 26 3YB-420

Flat rod m.s. zinc pl. with rollers polyamide black

1121-U145-L mm
(1121-U145-01 to -08)
see price list

3ZB-820

(3E-340)

Rod guide

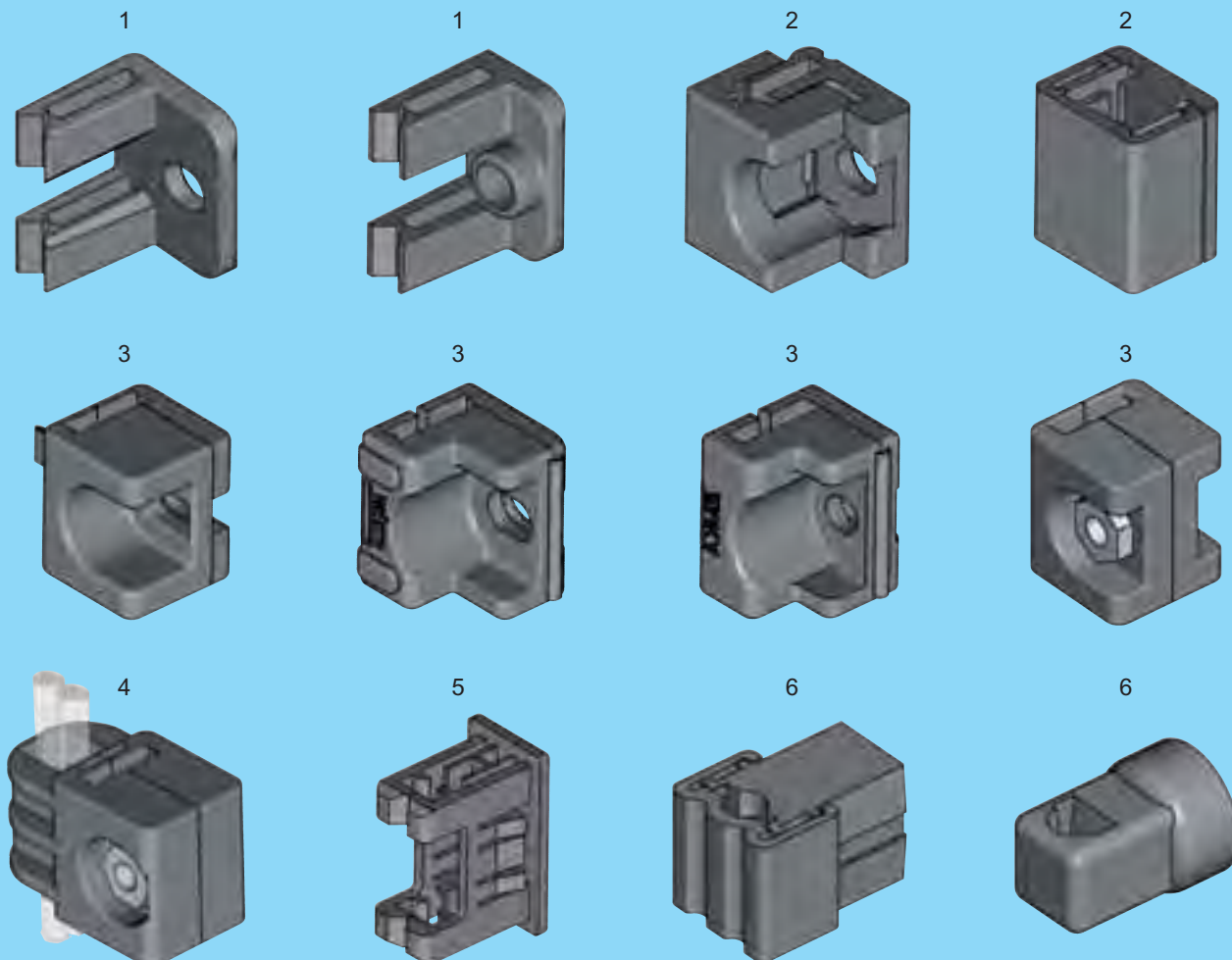
Program 1107, 1125, 1160, 1180

Info

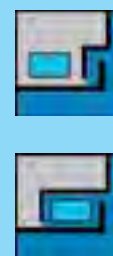
1 Quarter turns

2 Rod controls

3 Locking systems



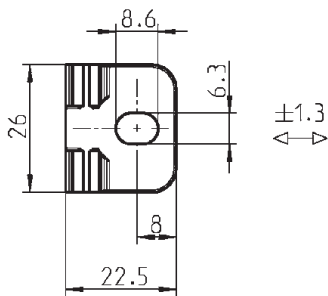
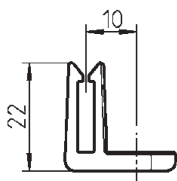
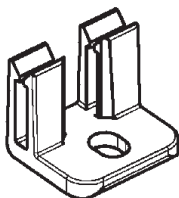
- 1 for flat rod 3 x 14, flat rod will clip in
- 2 for flat rod 3 x 14, cover will clip in
- 3 for flat rod 3 x 14, rod guide can be pre-assembled on rod
- 4 for flat rod 3 x 14 and cable, rod guide can be pre-assembled on rod
- 5 for flat rod 3 x 14, rod guide and flat rod will clip in
- 6 for round rod Ø 8



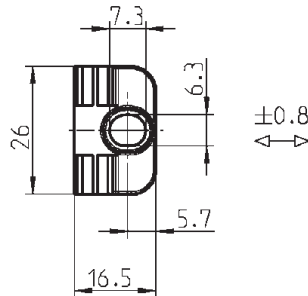
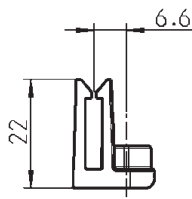
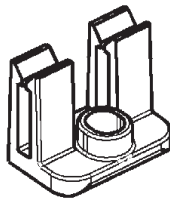
3ZC-100

Rod guide for flat rod 3X14

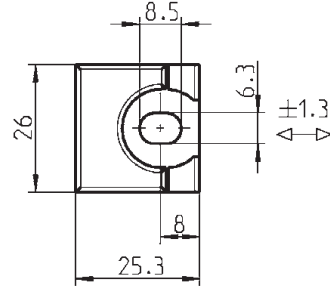
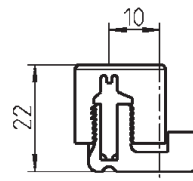
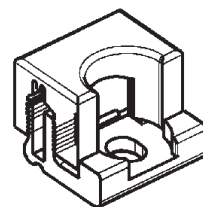
PROGRAM 1107, 1125, 1150, 1160, 1180, 1190, 1225, 2100, 2300, 2400, 2600



Flat rod will clip in!



Flat rod will clip in!
for narrow bending area!



Pre-assembling of the lower part possible!
Cover will be clipped on!

Rod guide
polyamide black for weld stud M6x12

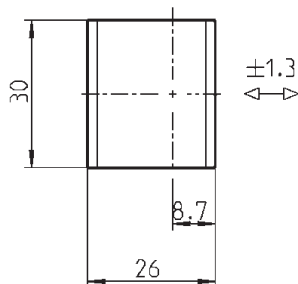
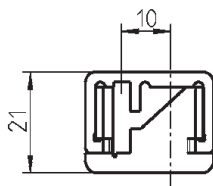
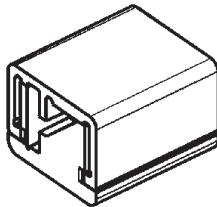
1121-89

Rod guide
Polyamide black
for rivet nut Ø 6x8-M4 or
counter sunk screw DIN 7045 M4x6

1121-89-11

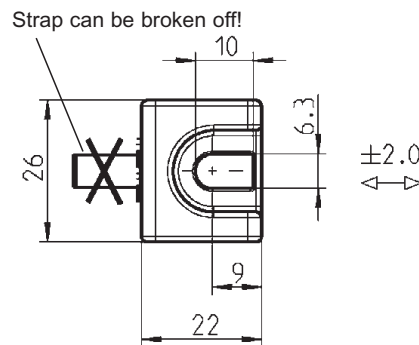
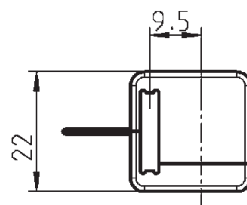
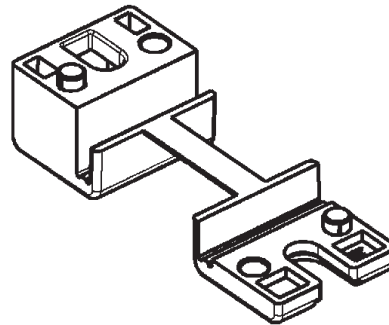
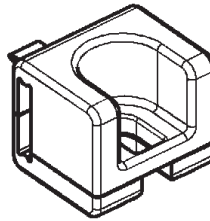
Rod guide
polyamide black for weld stud M6x12

1121-U91



Pre-assembling of the lower part possible!

Cover will be clipped on!



Rod guide can be pre-assembled on rod!

Rod guide
Polyamide black
for weld stud M6x12

1121-U151

Rod guide
Polyamide black
for weld stud M6x16 or M6x20

1121-19-N

Further parts see page

Program 1107
– Rods 3ZB-320

Program 1125
– Rod control 3YA-140
3YA-240
– Rods 3ZA-120
up to 3ZA-340
3ZB-120
3ZB-220
3ZB-420
3ZB-440

Program 1150
– Rods 3ZA-120
up to 3ZA-340
3ZB-120
3ZB-220
3ZB-520
3ZB-540

Program 1160
– Rods 3ZA-120
up to 3ZA-420
3ZB-120
3ZB-220

Program 1180
– Rods 3ZA-120
up to 3ZA-340
3ZA-520
3ZB-120
3ZB-220
3ZB-620

Program 1190
– Rods 3ZA-120
up to 3ZA-340

Program 1225
– Rod control 3YA-140
3YA-240
– Rods 3ZA-120
up to 3ZA-340
3ZB-120
3ZB-220
3ZB-420
3ZB-720

Program 2100
– Rods 3ZA-120
up to 3ZA-340
3ZB-120
3ZB-220
3ZB-820

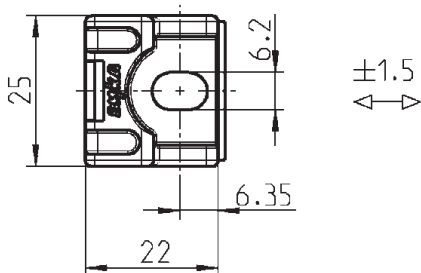
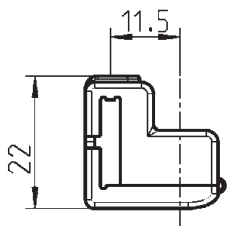
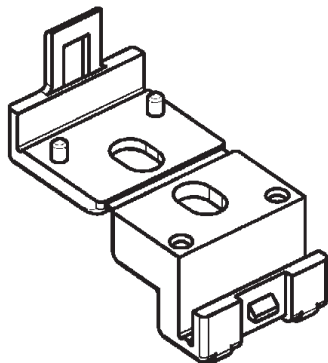
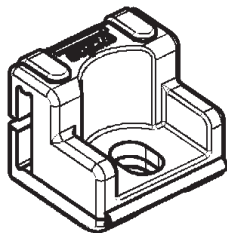
Program 2300
– Rods 3ZA-620
3ZB-120
3ZB-220

Program 2400
– Rods 3ZA-720
3ZA-820

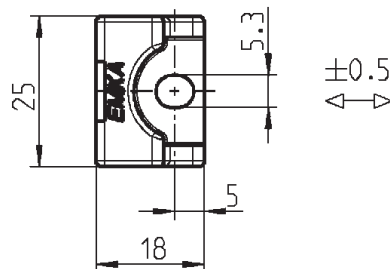
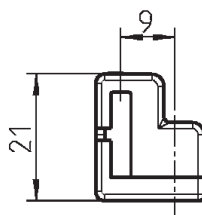
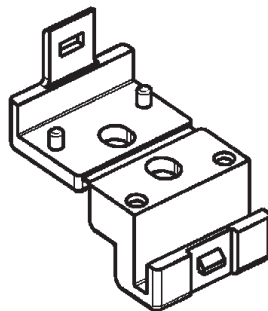
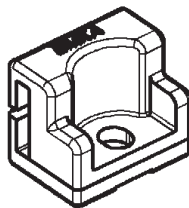
Program 2600
– Rods 3ZA-920

Rod guide for flat rod 3x14

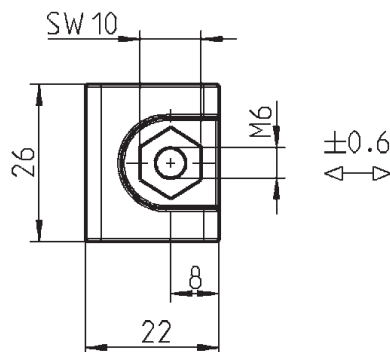
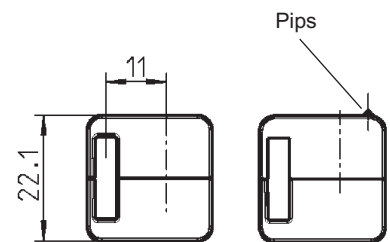
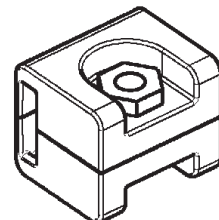
PROGRAM 1107, 1125, 1150, 1160, 1180, 1190, 1225, 2100,2300, 2400, 2600



Rod guide can be pre-assembled on flat rod!



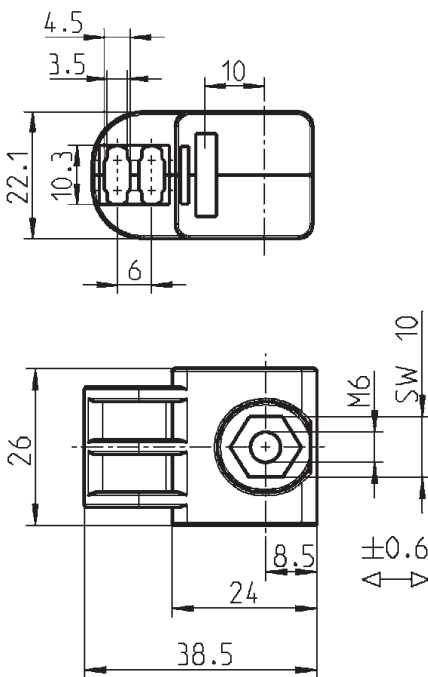
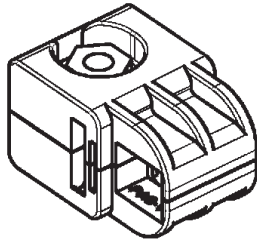
Rod guide can be pre-assembled on rod!



Pips avoid "door rattling"

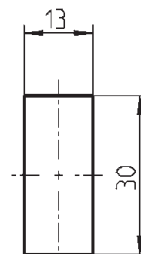
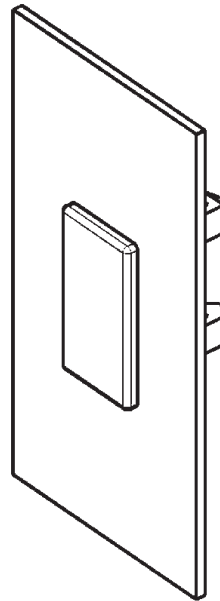
Rod guide can be pre-assembled on rod!

Rod guide polyamide black for weld stud M6x12		Rod guide polyamide black for weld stud M5x12		Rod guide polyamide black, safety nut m.s. zinc plated for weld studs or counter sunk screw M6x16 or M6x20	
	1121-109		1121-106	without pips	1121-U71-N
				with pips	1121-U74-N

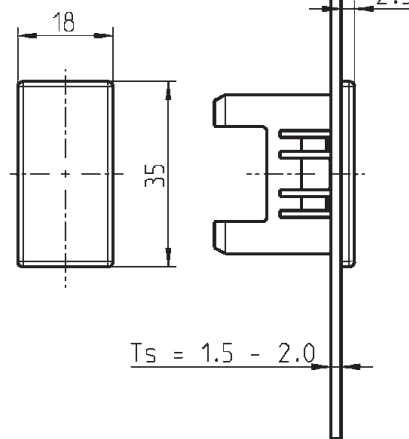


Rods with cable guide for different cable diameters.
Depending on the diameter up to 6 cables can be used.

Rod guide can be pre-assembled on flat rod!



Cut out



Flat rod will clip in!



Further parts see page

Program 1107
– Rods 3ZB-320

Program 1125
– Rod control 3YA-140
3YA-240
– Rods 3ZA-120
up to 3ZA-340
3ZB-120
3ZB-220
3ZB-420
3ZB-440

Program 1150
– Rods 3ZA-120
up to 3ZA-340
3ZB-120
3ZB-220
3ZB-520
3ZB-540

Program 1160
– Rods 3ZA-120
up to 3ZA-420
3ZB-120
3ZB-220

Program 1180
– Rods 3ZA-120
up to 3ZA-340
3ZA-520
3ZB-120
3ZB-220
3ZB-620

Program 1190
– Rods 3ZA-120
up to 3ZA-340

Program 1225
– Rod control 3YA-140
3YA-240
– Rods 3ZA-120
up to 3ZA-340
3ZB-120
3ZB-220
3ZB-420
3ZB-720

Program 2100
– Rods 3ZA-120
up to 3ZA-340
3ZB-120
3ZB-220
3ZB-820

Program 2300
– Rods 3ZA-620
3ZB-120
3ZB-220

Program 2400
– Rods 3ZA-720
3ZA-820

Program 2600
– Rods 3ZA-920

Rod guide
polyamide black, safety nut m.s. zinc plated
for weld studs or counter sunk screw
M6x16 or M6x20

1121-U87-N

Rod guide
polyamide black

2300-04

3ZC-140

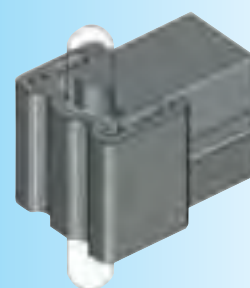
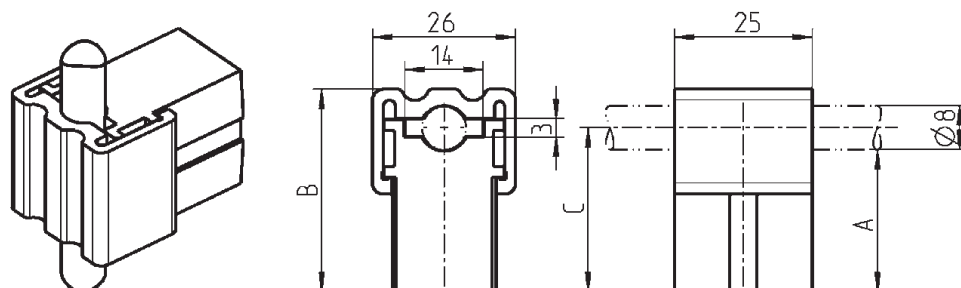
(3ZA-520, 3L-480)

Notes:

Rod guide for round rods 8 mm

PROGRAM 1107, 1125, 1150, 1160, 1180, 1225, 2100

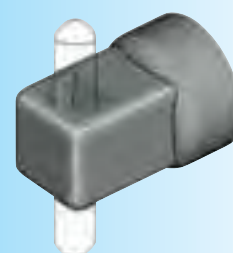
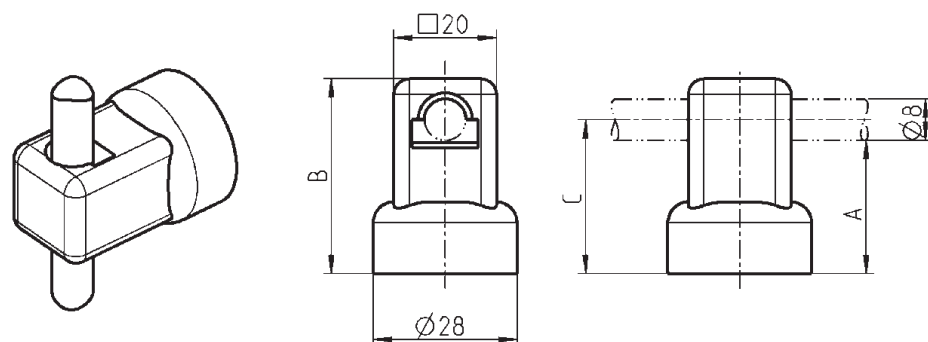
Beschlagteile



Note:
Rod guide can also be used
for 90° offset flat rods 3 x 14!

Rod guide polyamide black

A	B	C	for weld stud	
20	31	24	M6x12-20	1001-U40
26	37	30	M6x12-20	1001-U41



Rod guide polyamide black with shoulder nut m.s. zinc plated

A	B	C	for weld stud	
20	32	24	M6x16	1001-U11
26	38	30	M6x20	1001-U12

Further parts see page

Program 1107, 1125, 1150,
1160, 1180, 1225, 2100
– Rods 3ZB-120

3ZC-220

(3ZB-520)

Info	Hinges for prominent doors (chapter 4A)												
1 Quarter turns	4A-120	4A-121	4A-130	4A-135	4A-138	4A-140	4A-150	4A-170	4A-190	4A-210	4A-215	4A-220	4A-250
					•		•	•		•	•	•	•
	•	•	•	•		•	•		•				
2 Rod controls										•		•	
	•	•	•	•				•	•		•		
	•	•	•	•	•	•	•	•	•	•	•	•	•
3 Locking systems					•		•	•	•	•	•	•	
					•		•	•	•	•	•	•	
					•		•	•	•	•	•	•	
4 Hinges	120°	135°/180°	120°	120°/135°	180°	180°	180°	180°	120°	180°	180°	180°	180°
		•		•	•	•	•						
						•							
					•	•	•	•	•	•	•	•	
	•	•	•	•			•			•			•
	•		•				•			•			•
	•	•	•	•									
	•	•	•	•	•	•	•	•	•	•	•	•	•
					•	•	•			•	•	•	
	20	20/22,5	21,5/26	22/25	20	16/25	20	25	25	26	25	20	X

Hinges for flush doors and aluminium profiles (chapter 4B)

4B-120	4B-130	4B-140	4B-160	4B-170	4B-190	4B-200	4B-210	4B-215	4B-220	4B-230	4B-240	4B-245
			•	•	•	•	•	•	•	•	•	•
•	•	•										
•	•	•									•	
								2D				
•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•			•	•	•	•	•	•	•	•
90°	90°	180°	180°	180°	180°	180°/270°	180°	180°	180°	180°	180°	180°
					•	•					•	•
					•	•	•	•		•	•	
•	•	•	•	•								
•	•		•		•	•	•		•			
										•		
•	•	•		•								
			•	•	•	•	•	•	•	•	•	•
					•						•	

Pin hinge (chapter 4C)

4C-120	4C-130											
	•											
•												
•												
•												
•												
	•											

x = variable Note: Hinges should be greased prior to use

4A-260	4A-280	4A-285	4A-290	4A-295	4A-300	4A-310	4A-450	4A-460	4A-480	Beschlagteile
●	●	●	●	●	●	●	●	●		Prominent hinge
	●								●	Concealed hinge
		●	●	●	●				●	Lift-off version
										Restricted lift-off version
●	●	●	●	●	●	●	●	●	●	For single cabinets
				●			●	●		For in-line cabinets with single door
				●			●	●		For in-line cabinets with double door
180°	130°/180°	180°	180°	180°	180°	180°	180°	180°	120°	Opening angle
●									●	Door cut out
		●								Polyamide
	●	●		●		●	●	●	●	Zinc die
●	●		●	●	●	●	●	●		Mild steel
										Stainless steel
●										For pressure-resistant door
●	●		●	●	●	●				Weld-on hinge
●	●	●	●	●		●	●	●	●	Screw-on hinge
										Clamping hinge
x/12-14	X	X	X	x/18-23,5	X	X	20/25	10/25	25	Door return

1 Quarter turns

2 Rod controls

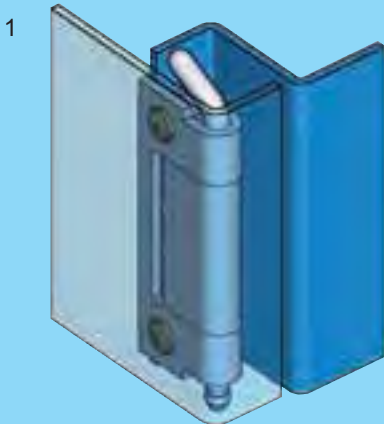
3 Locking systems

4 Hinges

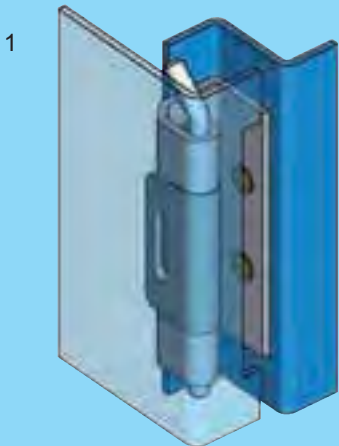
4B-250	4B-255	4B-260	4B-280	4B-290	4B-300					
●	●	●	●	●	●					Prominent hinge
										Concealed hinge
										Lift-off version
										Restricted lift-off version
2D	3D	3D								Adjustable 2D/3D
●	●	●	●	●	●					For single cabinets
●	●	●	●	●	●					For in-line cabinets with single door
										For in-line cabinets with double door
180°	180°	180°	180°	180°	180°					Opening angle
										Door cut out
					●					Polyamide
●	●	●	●	●						Zinc die
										Mild steel
										Stainless steel
										For aluminium profiles
										Weld-on hinge
●	●	●	●	●	●					Screw-on hinge
										Clamping hinge

										Polyamide
										Mild steel
										Stainless steel
										Weld-on hinge
										Screw-on hinge
										Clip-in hinge

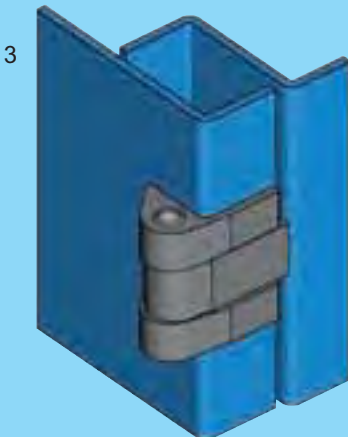
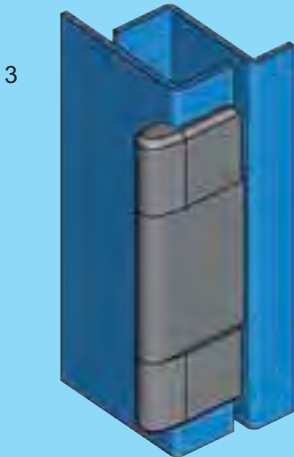
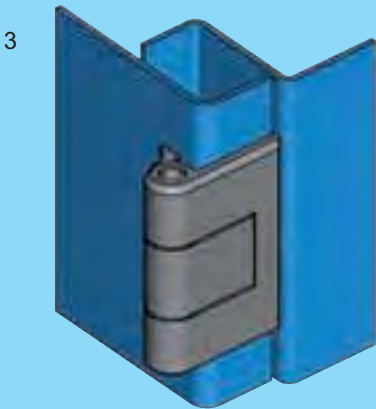
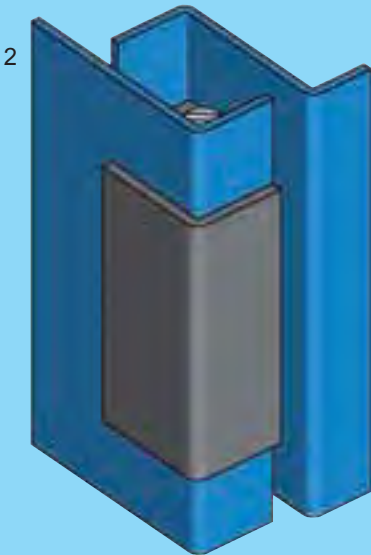
Hinge for prominent door



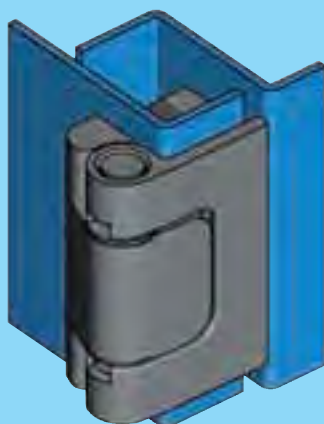
Door pictured transparent



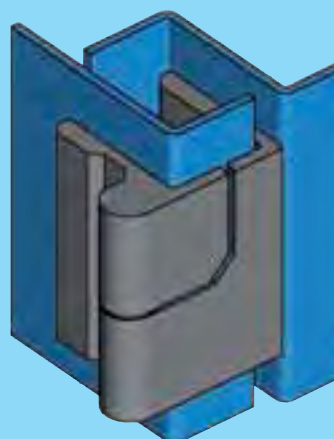
Door pictured transparent



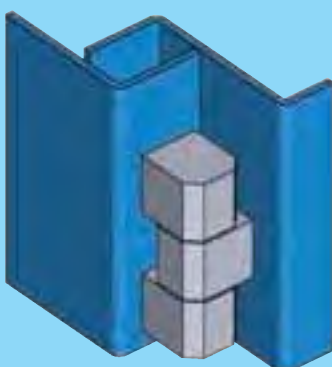
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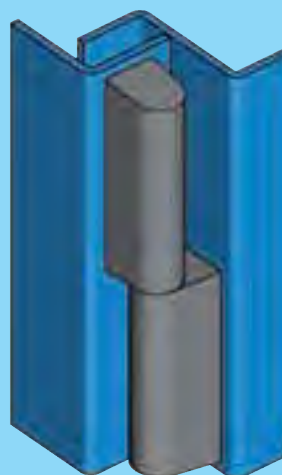
4



5



6



- 1 120° to 135° concealed hinge
- 2 120° concealed hinge and lift-off version
- 3 180° prominent hinge
- 4 180° prominent hinge and lift-off version
- 5 180° prominent hinge
- 6 180° prominent hinge and lift-off version

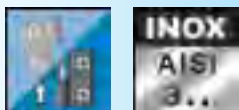
- 4A-120 up to 4A-135, 4A140
- 4A-150, 4A-190, 4A-280
- 4A-190
- 4A-138, 4A-150, 4A-450, 4A-460
- 4A-170, 4A-210 up to 4A-220
- 4A-250 up to 4A-280, 4A-310
- 4A-285 up to 4A-300



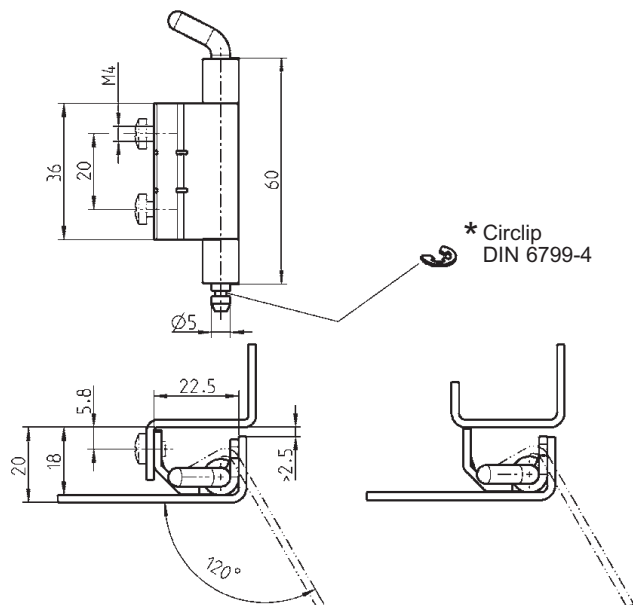
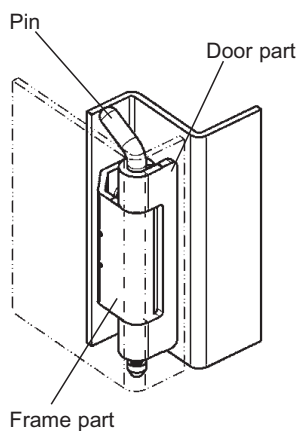
4A-100

120° hinge PROGRAM 1069

Beschlagteile



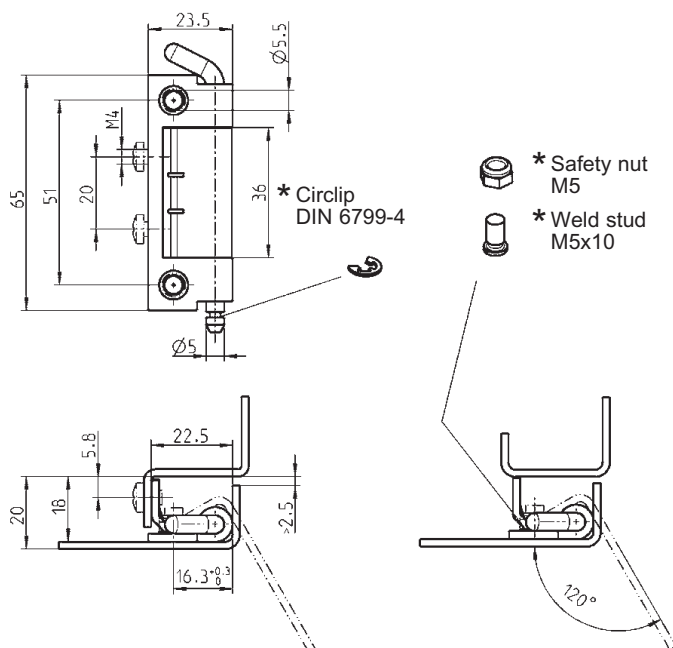
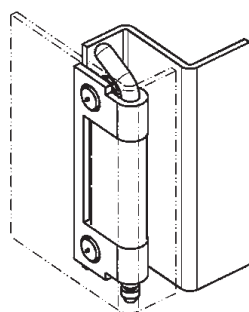
120° hinge
for 20 mm door return



Hinge m.s. zinc pl. or stainl. steel, weld-on part m.s. raw or AISI 304

screw-on m.s.	1069-U1	weld-on m.s.	1069-U2
screw-on AISI 304	1069-U4	weld-on AISI 304	1069-U3

120° hinge for weld stud fastening
for 20 mm door return



* not included

Further parts see page
– Fixing material

12E-100

Hinge, m.s. zinc pl., screw-on

1069-U6

Hinge, m.s. zinc pl., weld-on

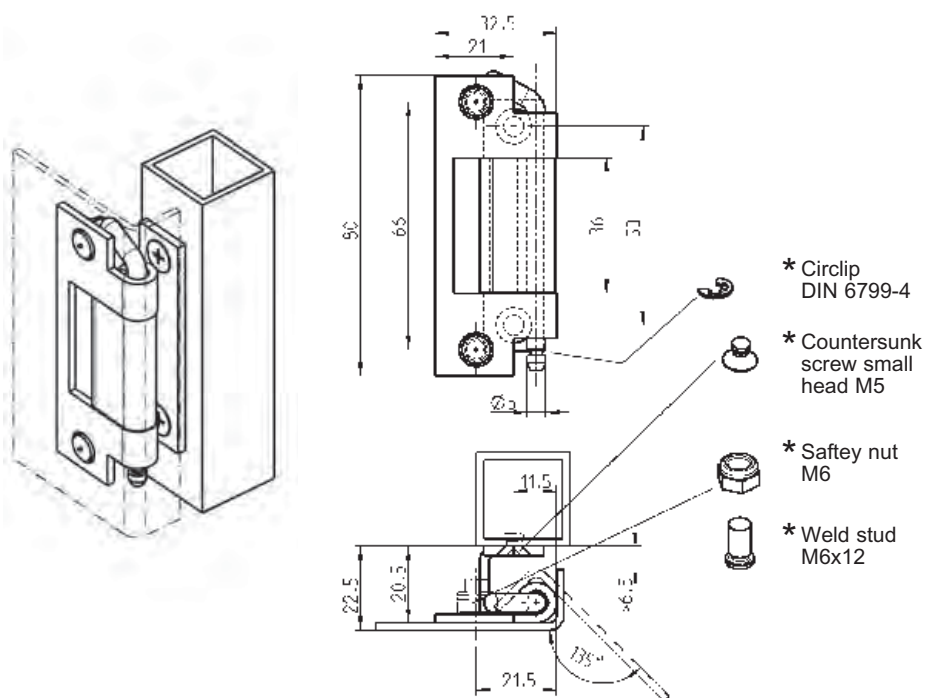
weld-on part m.s. raw

1069-U5

Hinge

PROGRAM 1032, 1110

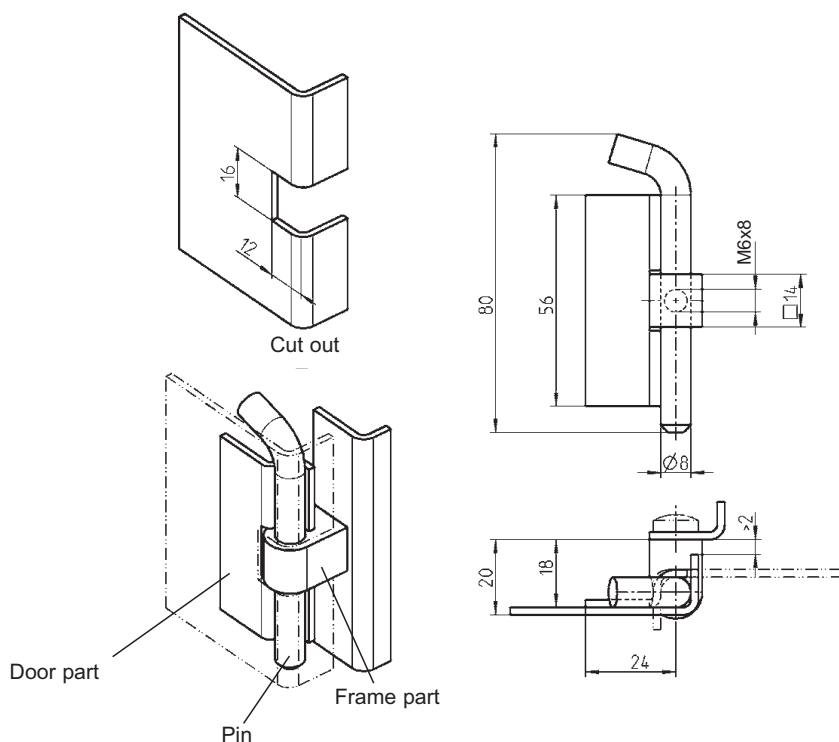
135° hinge
for 22,5 mm door return



Hinge m.s. zinc pl.

1032-U6

Hinge
for 20 mm door return



Hinge m.s. zinc pl., weld-on parts raw

1110-U1



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



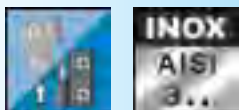
* not included

Further parts see page
– Fixing material

12E-100

120° hinge PROGRAM 1031, 1032

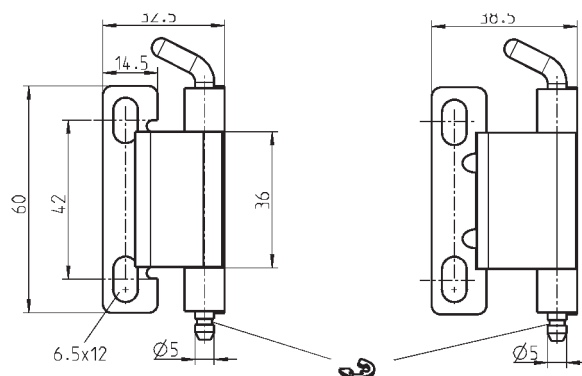
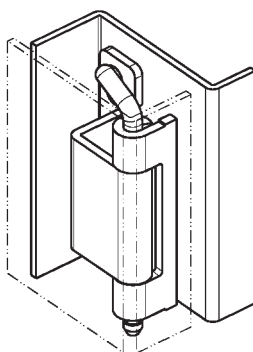
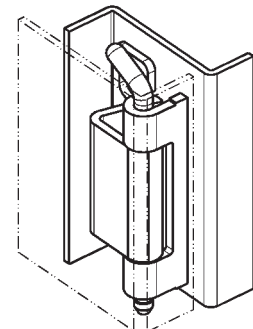
Beschlagteile



EDELSTAHL® 120° hinge

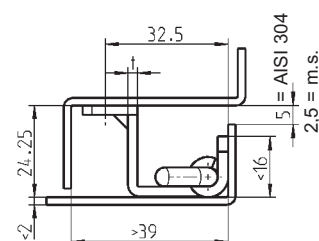
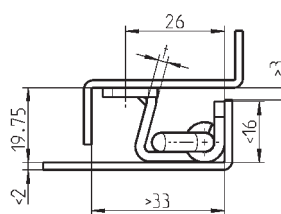


STAINLESS STEEL



m.s. t = 2,50
Stainl.st. t = 2,25

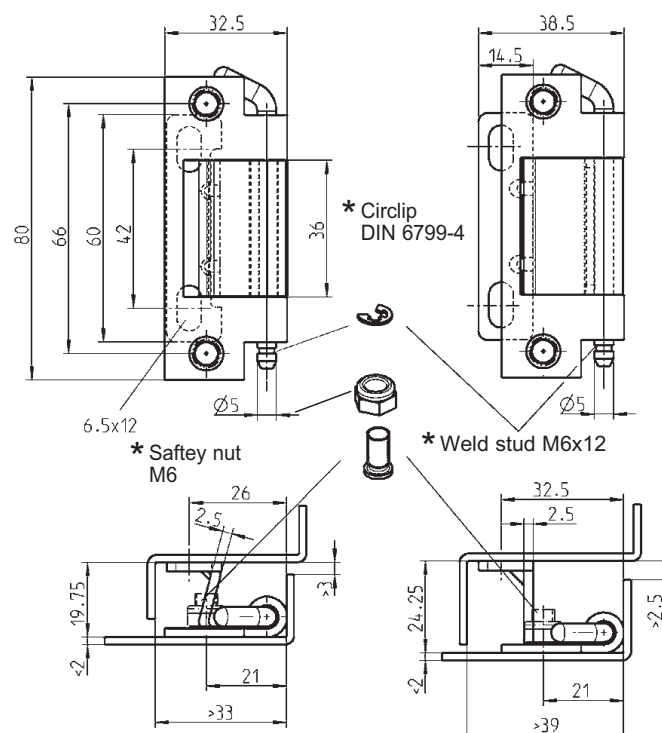
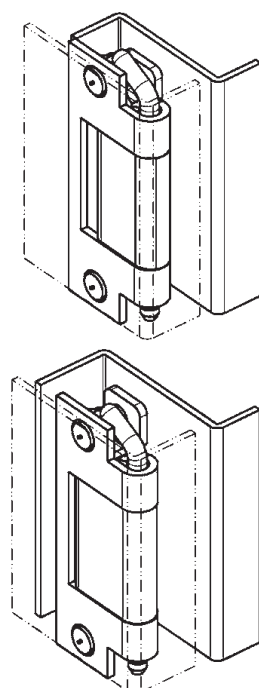
* Circlip
DIN 6799-4



120° hinge m.s. zinc pl. or stainl. steel, weld-on part m.s. raw or AISI 304

m.s. (Dim. 19,75)	1032-U1	m.s. (Dim. 24,25)	1031-U1
AISI (Dim. 19,75)	1032-U2	AISI (Dim. 24,25)	1031-U2

120° hinge for weld stud fastening



* Circlip
DIN 6799-4

* Safety nut
M6

* Weld stud M6x12

* not included

Further parts see page
– Fixing material

12E-100

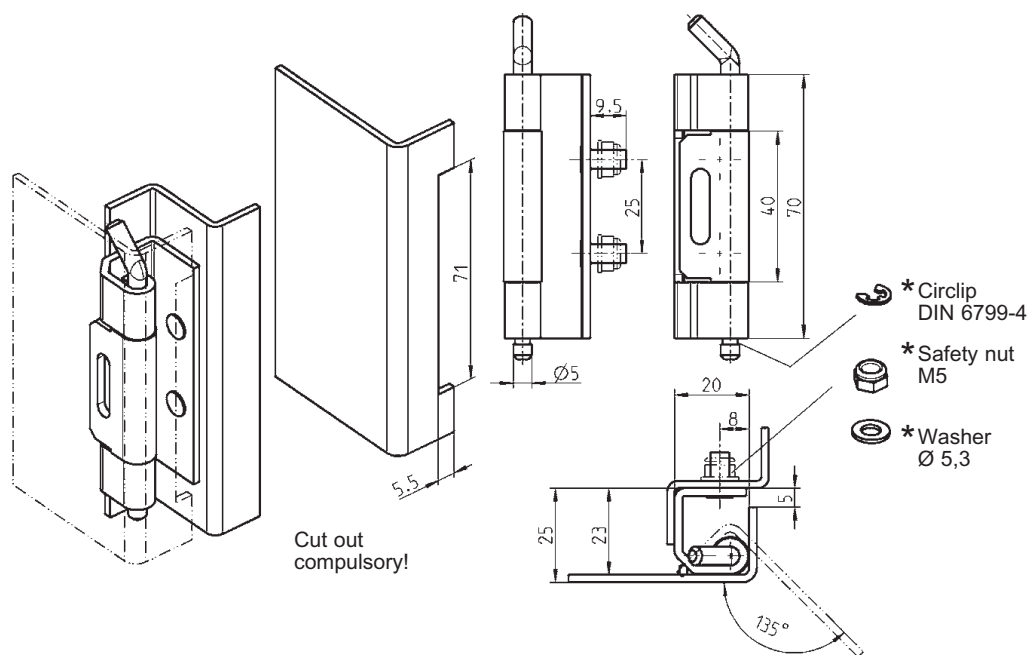
Hinge m.s. zinc pl.

(Dim. 19,75)	1032-U5	(Dim. 24,25)	1031-U10
--------------	---------	--------------	----------

Hinge

PROGRAM 1069, 1031

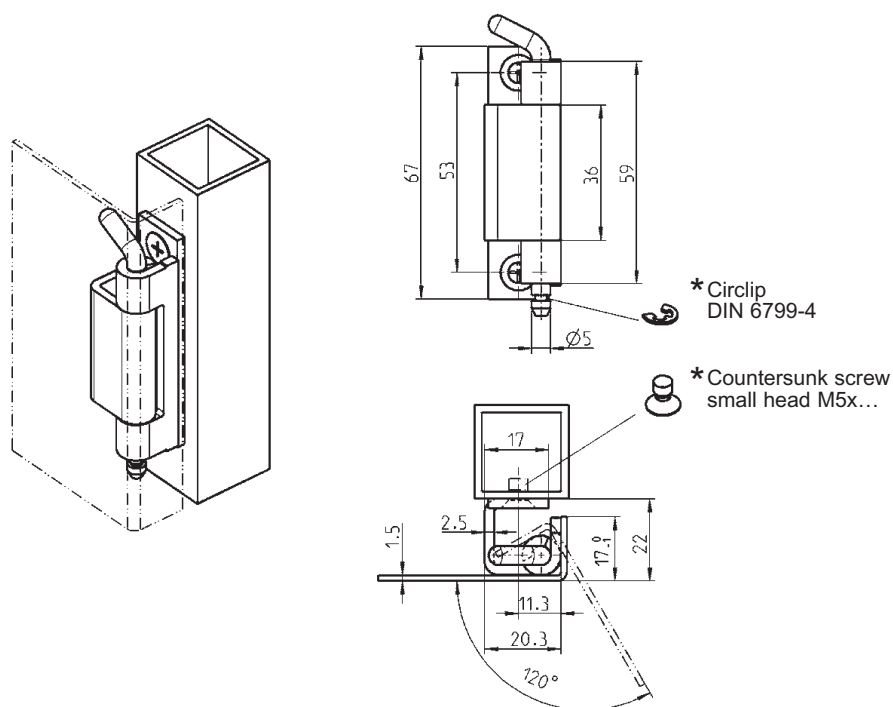
135° hinge
for 20/25 mm door return



Frame part m.s. zinc pl. with studs M5x12,
door part m.s. raw weld-on version, pin m.s. zinc pl.

1069-U7

120° hinge
for 22 mm door return



120° hinge m.s. zinc pl., weld-on part m.s. raw

1031-U7

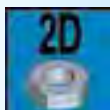
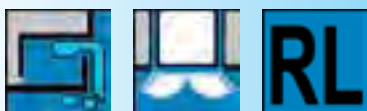


* not included

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

Further parts see page
– Fixing material

12E-100



Version A



Version B



Version C



Version D

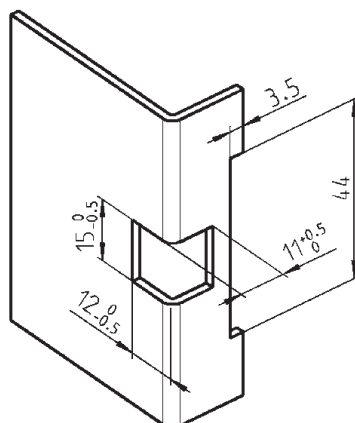
* not included

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

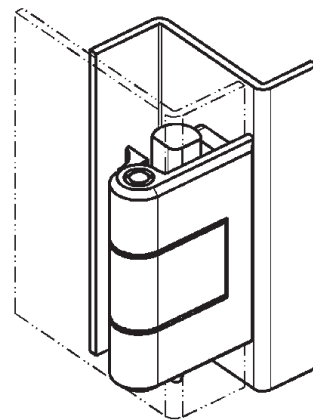
Further parts see page

– 2D-nut 12E-120
– Fixing material 12E-100

180° hinge for in-line cabinets with adjacent door
20 mm door return

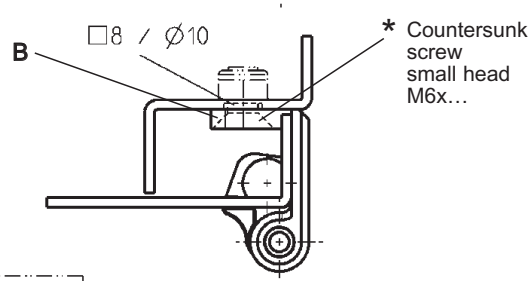
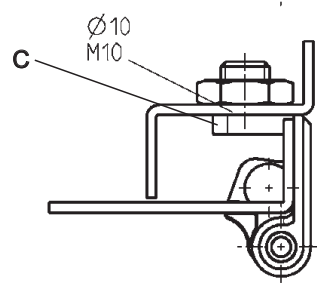
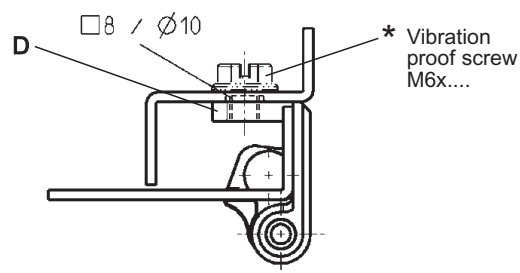
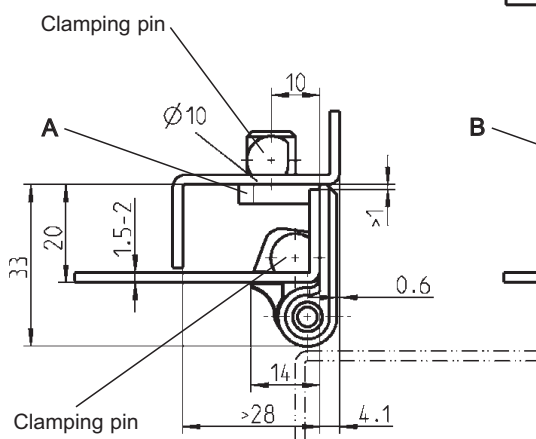
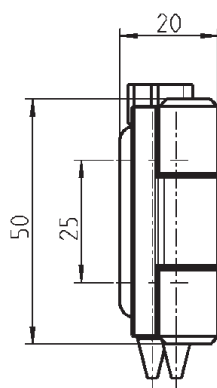


Cut out



Assembling:

To fix the hinge just knock-in the clamping pin.



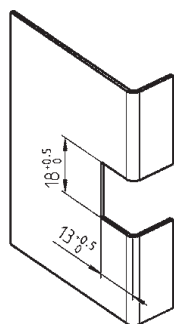
Hinge zinc die black p.c., fixing material polyamide GF black,
pin stainl. steel, washer and nut m.s. zinc plated

Version A	1110-U128
Version B (2D-nut possible)	1110-U130
Version C	1110-U129
Version D	1110-U127

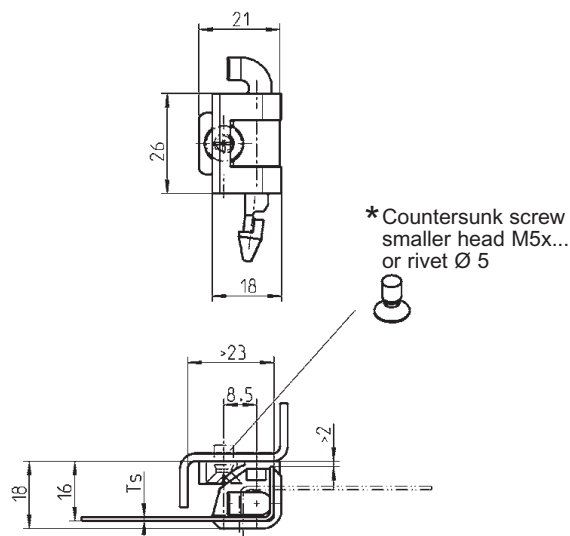
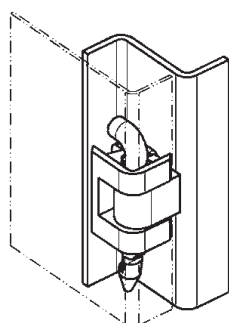
180° hinge

PROGRAM 1110

180° PA-hinge for single cabinets
with 16 mm door return



Cut out



180° hinge polyamide GF black, pin polyamide black

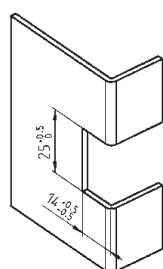
Ts 1,0 – 1,25 mm

1110-U23

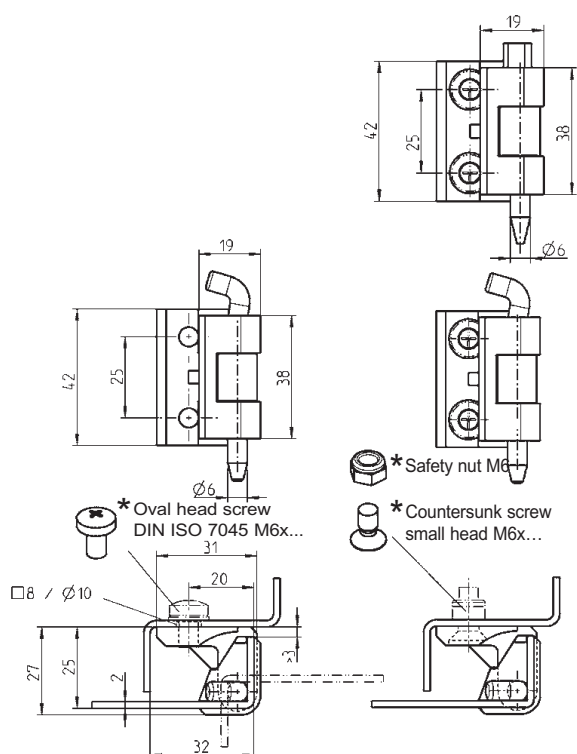
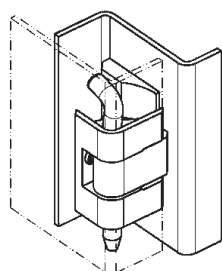
Ts 1,5 – 2,0 mm

1110-U24

180° hinge for single cabinets
for 25 mm door return



Cut out



180° hinge zinc die, pin m.s. zinc pl.

chrome plated

black powder coated

Locking screw M6

1110-U20

1110-U22

Countersunk screw M6 (2D-nut possible)

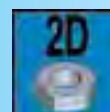
1110-U19

1110-U21

180° hinge polyamide GF black, pin polyamide black

Countersunk screw M6 (2D-nut possible)

1110-U125



* not included

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

Further parts see page

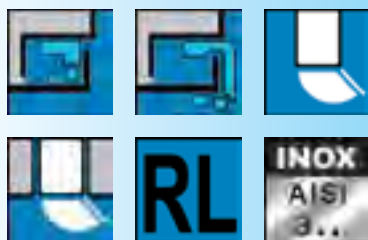
– 2D-nut

12E-120

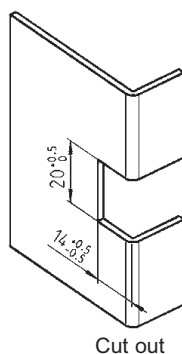
– Fixing material

12E-100

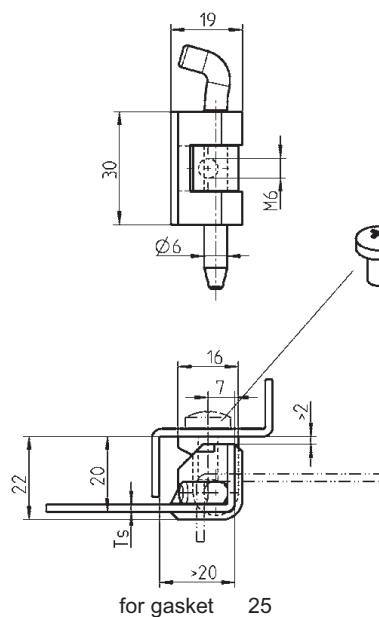
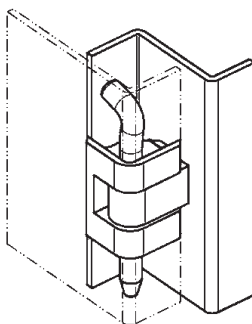
180° hinge PROGRAM 1110



180° hinge for single cabinets
for 20 mm door return



Cut out



* Oval head screw DIN ISO 7045

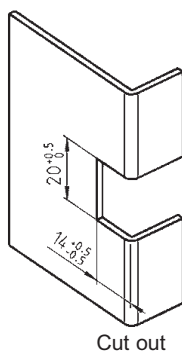


180° hinge zinc die and pin m.s. zinc pl. or AISI 316 and pin 303

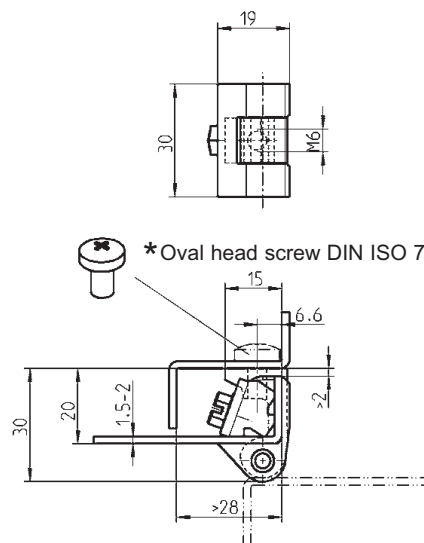
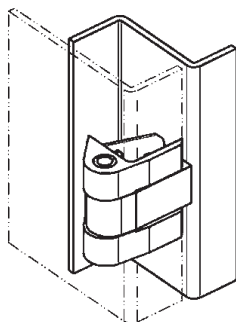
	Ts = 0,8 – 1,0	1,5 – 2,0
zinc die chrome plated	–	1110-U2
zinc die black powder coated	–	1110-U3
AISI 316	1110-U51	1110-U50



180° hinge for in-line cabinets with adjacent door
for 20 mm door return



Cut out



* Oval head screw DIN ISO 7045 M6x...



* not included

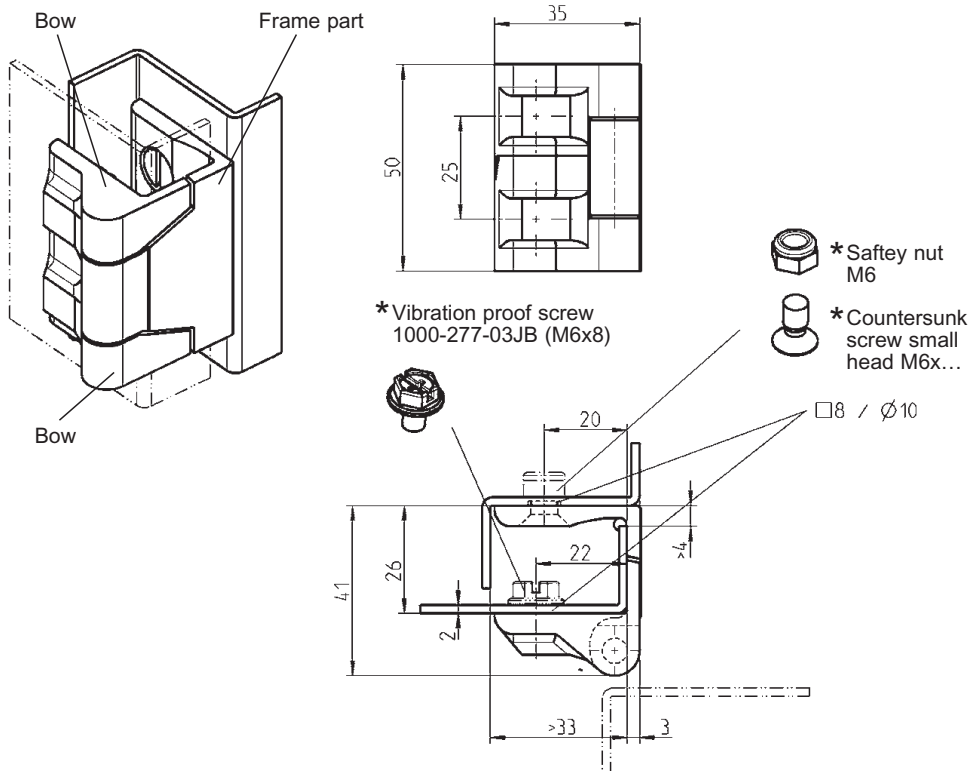
180° hinge zinc die or AISI 316, with fixing material m.s. zinc pl. or AISI 303

chrome plated	1110-U4-N
black powder coated	1110-U5-N
AISI 316	1110-U5-NPH

180° hinge

PROGRAM 1110

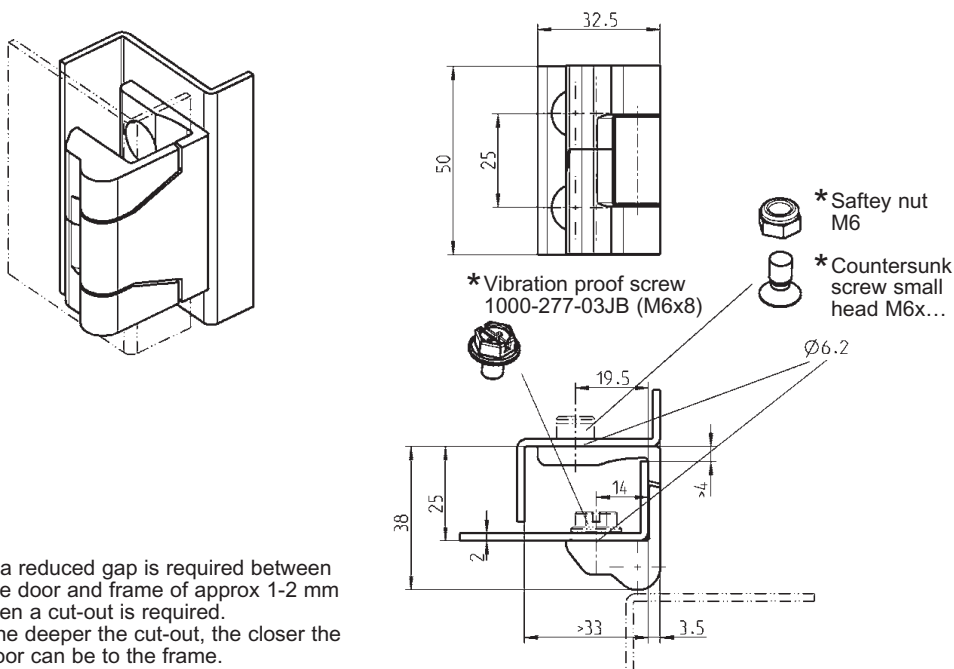
180° hinge for in-line cabinets with single door
135° lift-off version for 25 mm door return



180° hinge zinc die, pin stainl. steel and brass washer

black powder coated	1110-U52
chrome plated	1110-U53

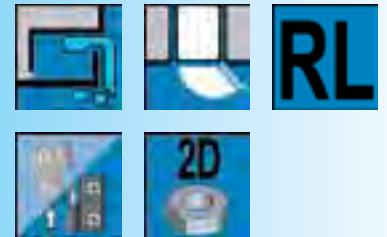
180° hinge for in-line cabinets with single door
lift-off version for 25 mm door return



If a reduced gap is required between the door and frame of approx 1-2 mm then a cut-out is required.
The deeper the cut-out, the closer the door can be to the frame.

180° hinge zinc die black p.c., hinge pin m.s. zinc pl. and brass washer

1110-U123



Note:
Lift-off by removing the lower door part

* not included

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

Further parts see page

– 2D-nut	12E-120
– Fixing material	12E-100

120° hinge PROGRAM 1110

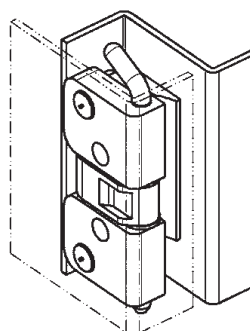
Beschlagteile



RL

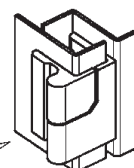


120° hinge for in-line cabinets with single door
for 25 mm door return



For weld stud
M6x16

Holes can be used as jig-boring
for changing to 180° hinge,
see page 4A-210

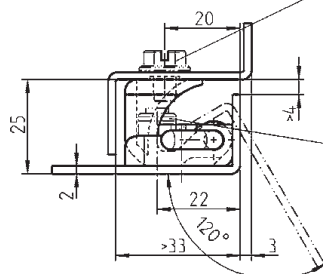


* Circlip
DIN 6799-4

* Vibration proof screw
1000-277-03JB (M6x8)

* Safety nut
M6

* For weld stud
M6x16



* not included

Further parts see page
– Fixing material

12E-100

On request chrome pl. and with
further RAL-colours available.

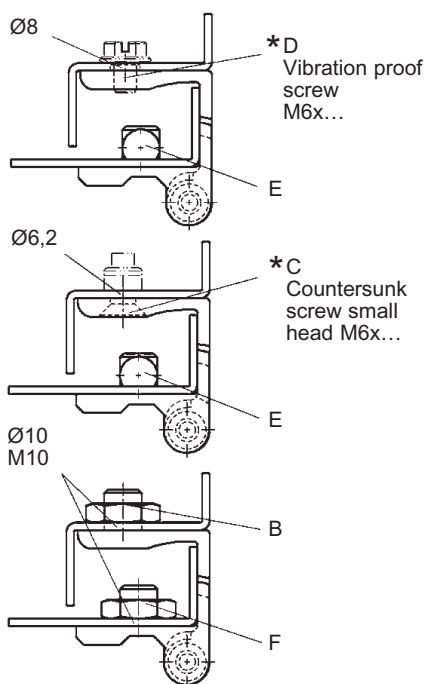
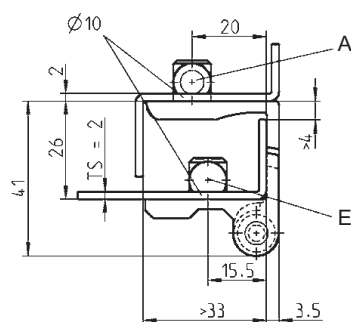
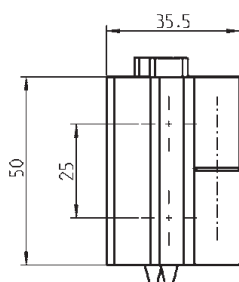
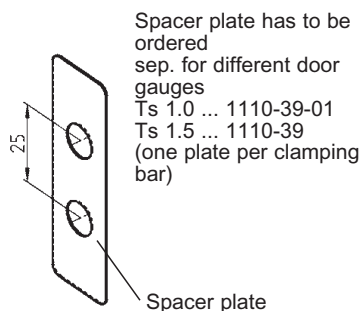
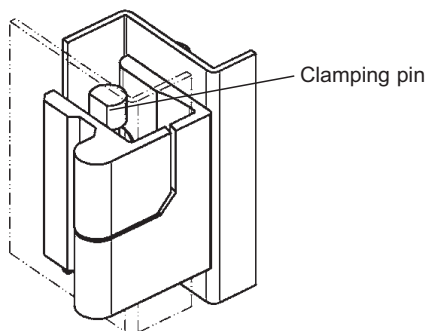
120° hinge zinc die black p.c., pin m.s. zinc pl.

1110-U86

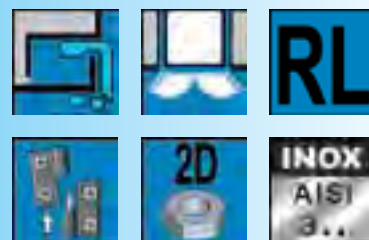
180° hinge PROGRAM 1110

180° hinge for in-line cabinets with adjacent door
lift-off upon 70° opening angle for 26 mm door return

Version for
Ts = 2



Beschlagteile



Version A+E



Version C+E



Version C+E



Version D+E



Version B+F



Version C+F

180° hinge zinc die black p.c.
clamping pin polyamide GF black
hinge pin stainl. steel and brass washer,
nut m.s. zinc pl.

180° hinge, frame part m.s. black p.c.
door part zinc die black p.c.,
clamping pin polyamide GF black,
hinge pin stainl. steel,
nut m.s. zinc pl.

Version	LH	RH
A+E	1110-U71	1110-U68
C+E ** (2D)	1110-U69	1110-U66
D+E	1110-U70	1110-U67
B+F	1110-U109	1110-U106
C+F ** (2D)	1110-U107	1110-U104
D+F	1110-U108	1110-U105

Version	LH	RH
C+E ** (2D)	1110-U118	1110-U119
C+F ** (2D)	1110-U120	1110-U121
180° hinge AISI 316, hinge pin and nut AISI 304		
C+F ** (2D)	1110-U120-PH	1110-U121-PH

* not included

** 2D-nut possible

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

Further parts see page

– 2D-nut 12E-120
– Fixing material 12E-100



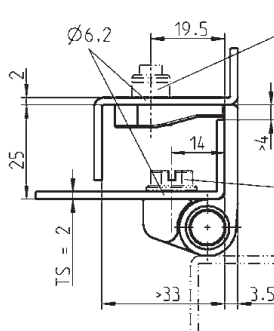
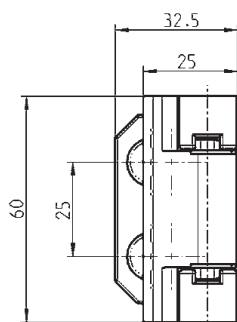
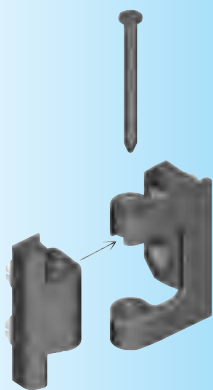
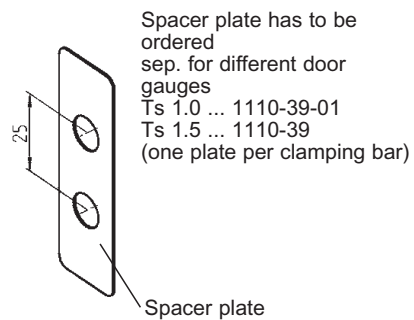
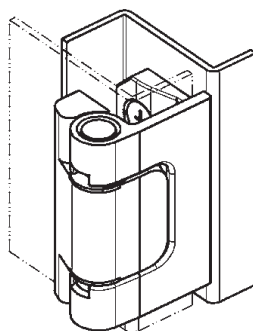
RL



2D

180° hinge for in-line cabinets with single door
lift-off upon 90° opening angle for 25 mm door return

Version for
Ts = 2



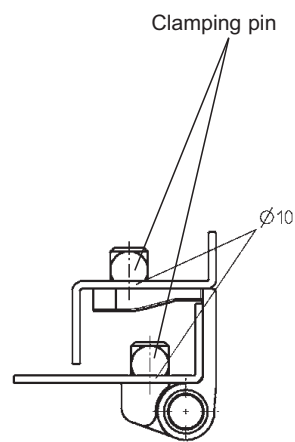
* Safety nut
M6



* Countersunk
screw small
head M6x...



* Vibration proof
screw
1000-277-02JB
(M6x6)



* not included

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

Further parts see page

– 2D-nut 12E-120
– Fixing material 12E-100

180° hinge zinc die black p.c., clamping pin polyamide GF black, hinge pin and clip polyamide GF black

screw-on version (2D-nut possible)

1110-U122

quick assembling version

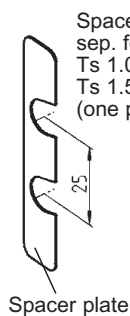
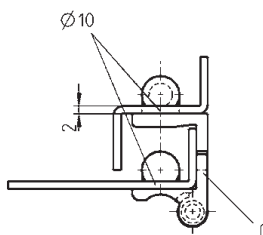
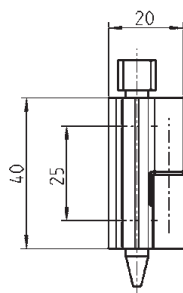
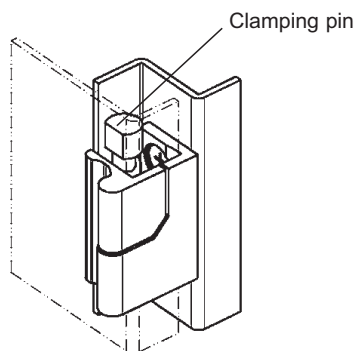
1110-U126

180° hinge

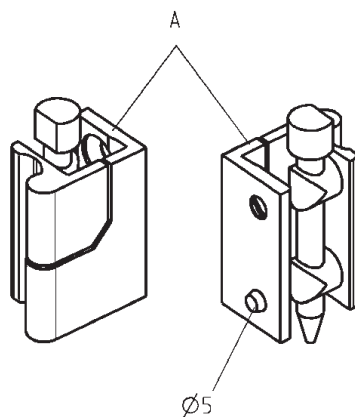
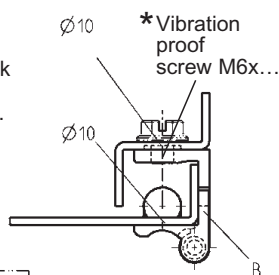
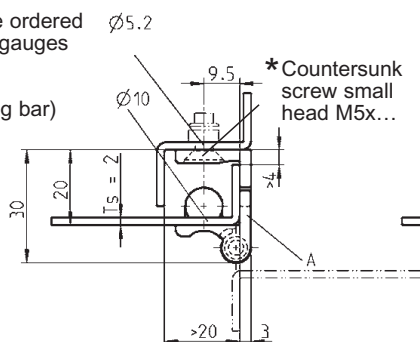
PROGRAM 1110

180° hinge for in-line cabinets with adjacent door
lift-off upon 70° opening angle for 20 mm door return

Version for
Ts = 2



Spacer plate has to be ordered
sep. for different door gauges
Ts 1.0 ... 1110-39-03
Ts 1.5 ... 1110-39-02
(one plate per clamping bar)



Only for version A

On request chrome pl. and with
further RAL-colours available.

180° hinge zinc die black powder coated, clamping pin polyamide GF black, hinge pin stainless steel and washer brass

Version A	RH	1110-U78
	LH	1110-U81
Version B	RH	1110-U79
	LH	1110-U82
Version C	RH	1110-U80
	LH	1110-U83



Version A



Version B



Version C

* not included

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

Further parts see page
– Fixing material

12E-100

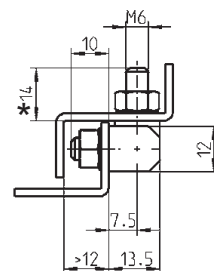
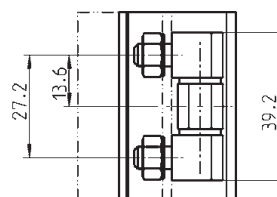
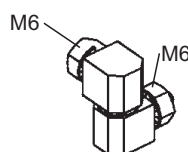
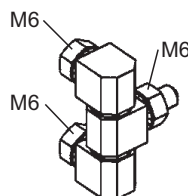
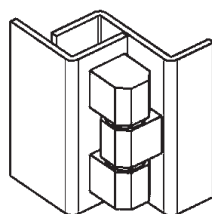
Screw-on hinge PROGRAM 1055, 1039

Beschlagteile



180° screw-on hinge

STAINLESS STEEL



* = 10 mm with two parts of hinge

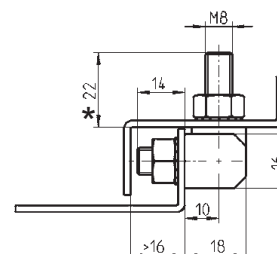
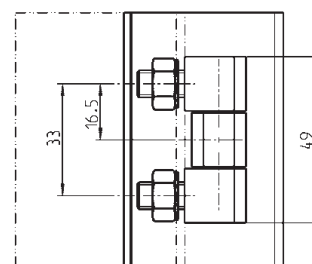
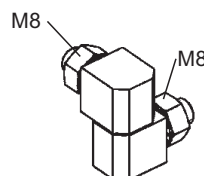
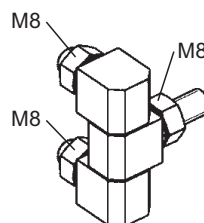
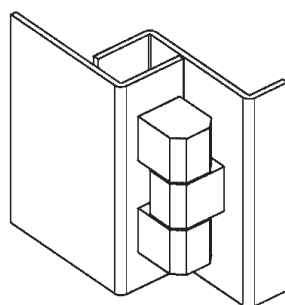
180° screw-on hinge m.s. zinc pl.,
pin and washer brass nickel pl. or stainl. steel

– three-pieces	m.s.	1055-U2
	AISI 303	1055-U6
	AISI 316	1055-U8
– two-pieces	m.s.	1055-U5



180° screw-on hinge

STAINLESS STEEL



* = 14 mm with two parts of hinge

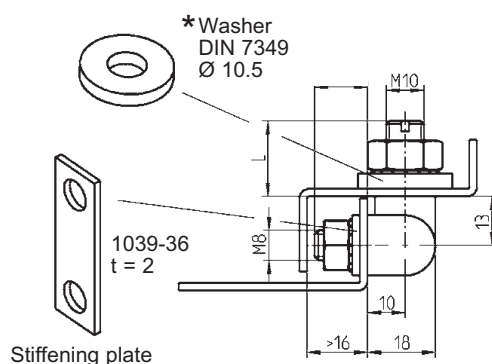
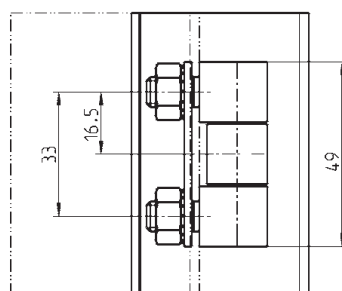
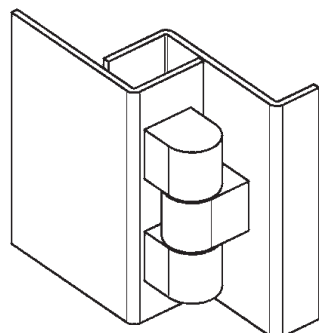
180° screw-on hinge m.s. zinc pl.,
pin and washer brass nickel pl. or stainl. steel

– three-pieces	m.s.	1039-U12
	AISI 303	1039-U19
	AISI 316	1039-U26
– two-pieces	m.s.	1039-U17

Hinge

PROGRAM 1039, 1035

180° screw-on hinge
for pressure resistant doors



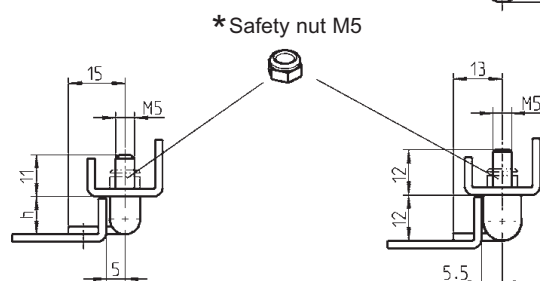
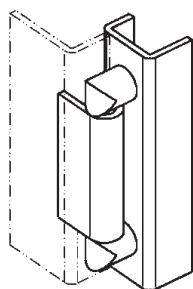
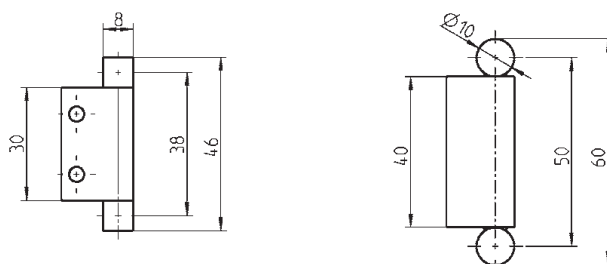
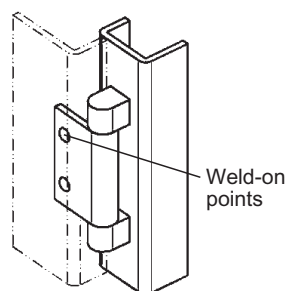
180° screw-on hinge m.s. zinc pl., pin and washer brass nickel pl.

Stud	L = 20 mm	1039-U6
	55 mm	1039-U7
	65 mm	1039-U8

Stiffening plate m.s. zinc pl.

1039-36

180° hinge



180° hinge m.s.zinc pl.
weld-on part m.s. raw

H= 10	1035-U1
12	1035-U3

180° hinge m.s.zinc pl.
weld-on part m.s.raw

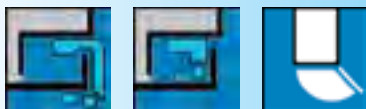
1035-U2

* not included

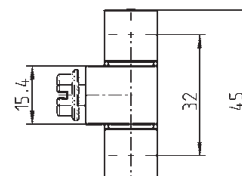
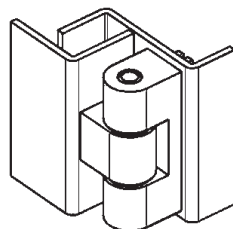


Hinge PROGRAM 1054, 1105

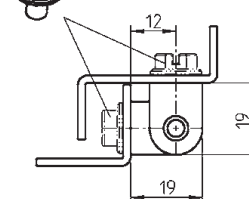
180° screw-on hinge



RL



*Vibration proof screw
1000-277-03JB (M6x8)



180° screw-on hinge zinc die, pin stainl. steel and bushes polyamide

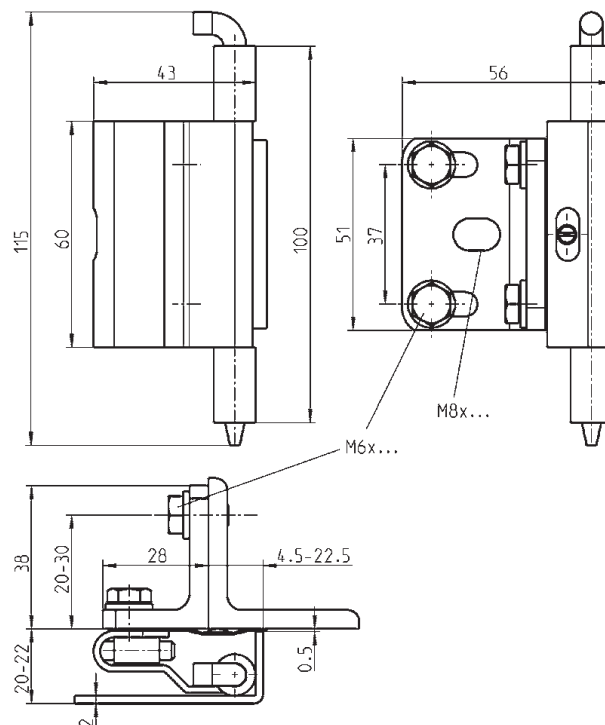
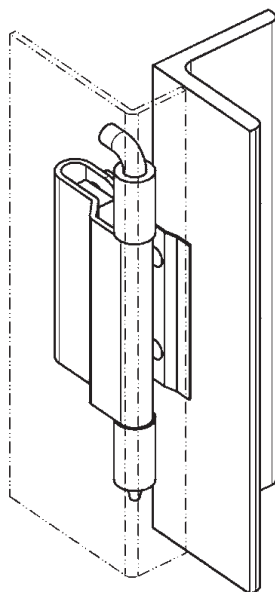
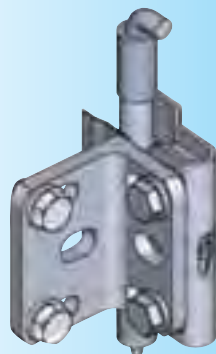
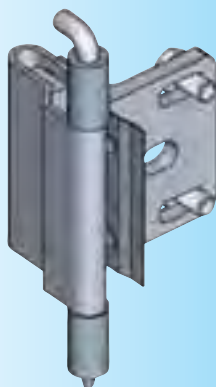
chrome plated

1054-U1

black powder coated

1054-U30

130° spring loaded hinge



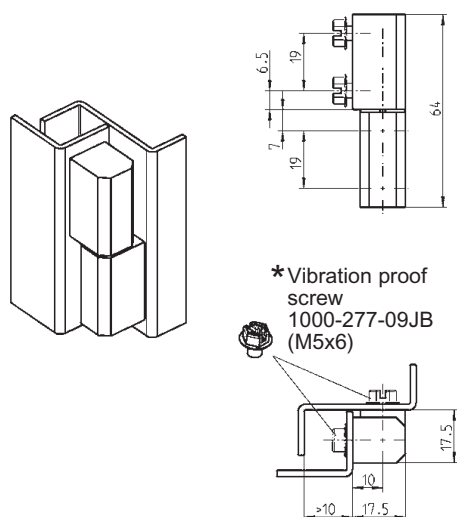
* not included

130° spring loaded hinge m.s. pl., door part m.s. raw, spring stainl. steel

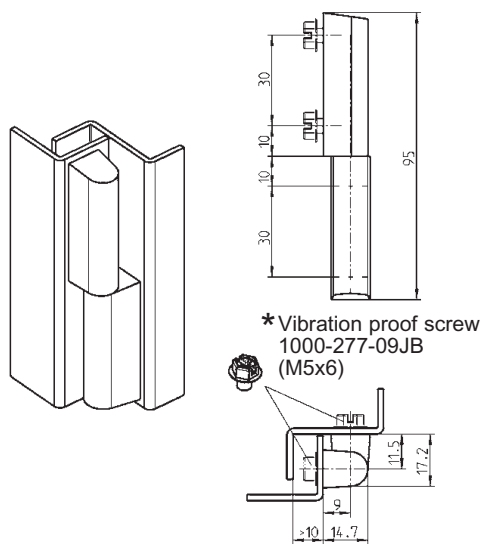
1105-U1

Screw-on hinge PROGRAM 1056, 1079

180° screw-on hinge zinc die



180° plastic-screw-on hinge



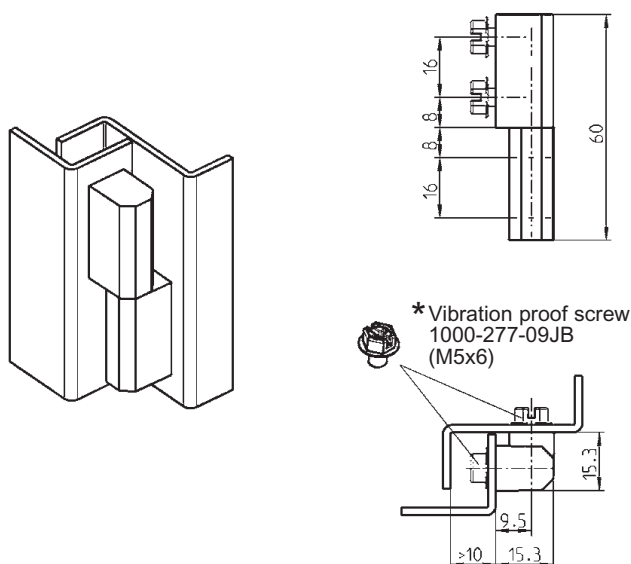
180° screw-on hinge zinc die black powder coated

1056-U34

Plastic-screw-on hinge polyamide GF black, pin stainl. steel and insert m.s. raw

1079-U2

180° plastic-screw-on hinge

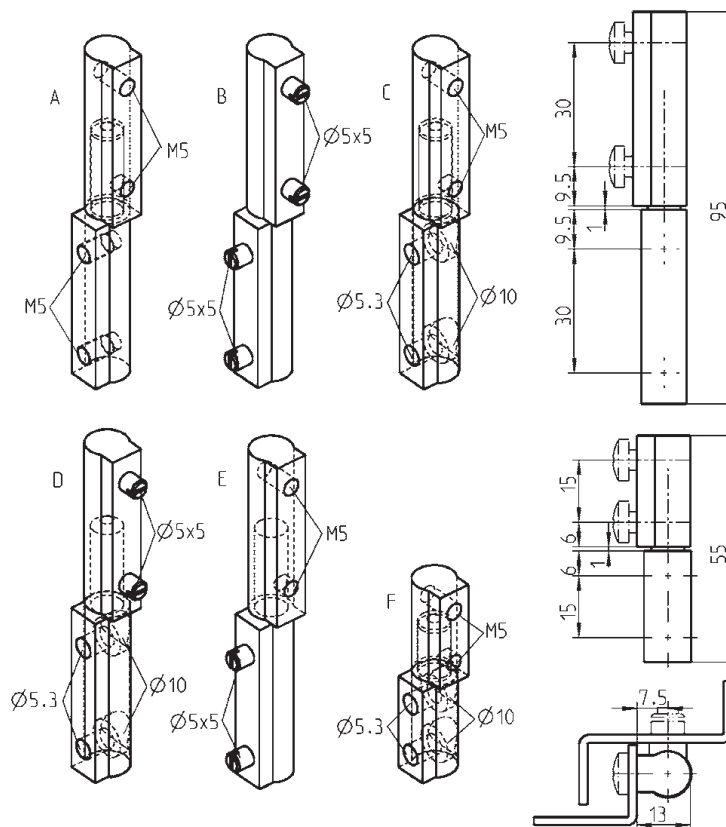
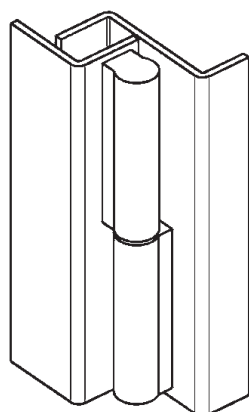
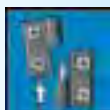


Plastic-screw-on hinge polyamide GF black, pin stainl. steel and insert m.s. raw

1079-U4

* not included





Profile hinge m.s. zinc pl., with weld-on studs m.s. raw, cover s.s.

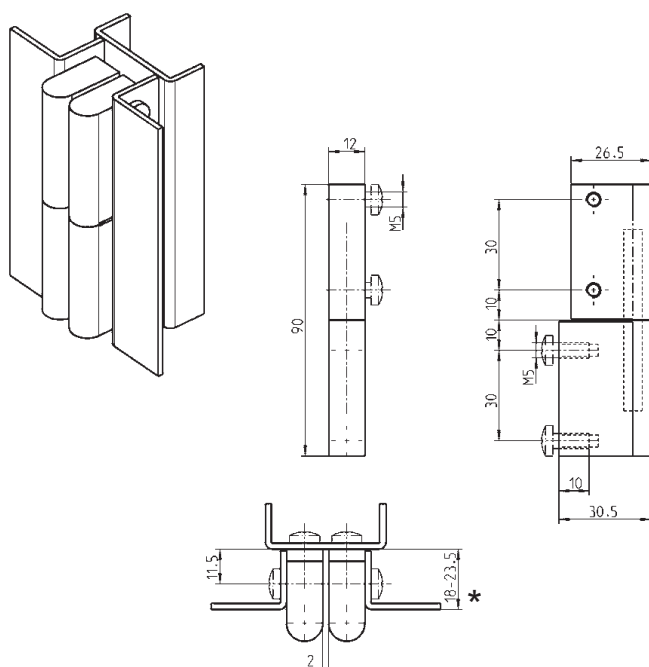
A	1036-U2
B	1036-U3
C*	1036-U4
D*	1036-U5
E	1036-U6
F*	1036-U7

* = with escutcheon bush

Hinge

PROGRAM 1033, 1036

Screw-on hinge



* If 18 mm, the opening angle of 180° for in-line cabinets with double doors is possible

Screw-on hinge zinc die, pin stainl. steel

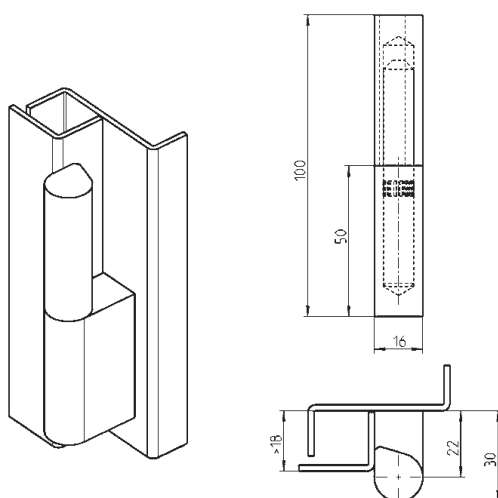
chrome plated

1036-U9

black powder coated

1036-U10

180° hinge for in-line cabinets with single door



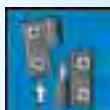
Weld-on hinge m.s. raw

1033-U44

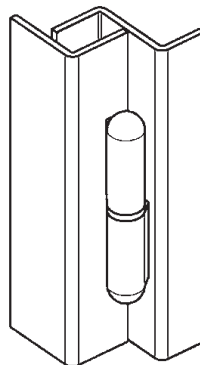




RL

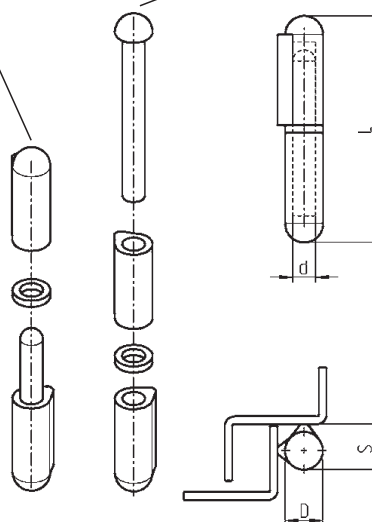


Weld-on hinge



Version:
with captive pin

Version:
with loose pin



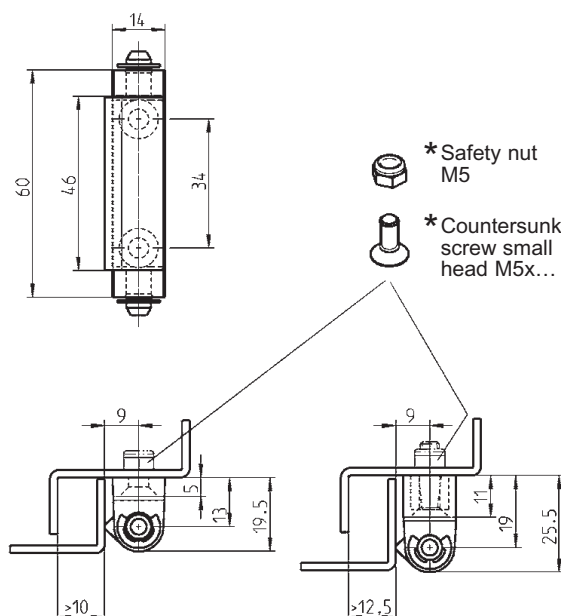
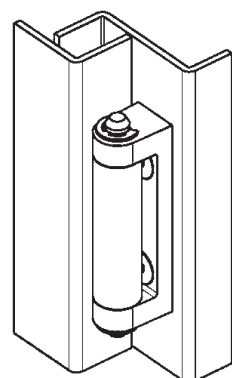
Version with captive pin, upon L-dimension of 80 mm, the upper part with lubricating nipple on request.

Version with captive pin m.s. raw, m.s. or brass pin						Version with loose pin m.s. raw, m.s. or brass pin					
L	D	d	S	m.s. pin	brass pin	L	D	d	S	m.s. pin	brass pin
40	8	5	9,5	1033-U1*	1033-U14*	40	8	5	9,5	1033-U27	1033-U35
50	8	5	9,5	1033-U2*	1033-U15*	50	8	5	9,5	1033-U55	1033-U56
60	10	6	13,5	1033-U3*	1033-U16*	60	10	6	12,0	1033-U28	1033-U36
70	11,5	7	13,5	1033-U4*	1033-U17*	70	11,5	7	13,5	1033-U57	1033-U58
80	13	8	15,5	1033-U5*	1033-U18*	80	13	8	15,5	1033-U29	1033-U37
100	16	11	20,0	1033-U7*	1033-U20*	100	16	10	20,0	1033-U30	1033-U38
120	16	11	20,0	1033-U8*	1033-U21*	120	16	11	20,0	1033-U31	1033-U39
135	18	12	22,0	1033-U9	1033-U22	135	18	12	22,0	1033-U32	1033-U40
150	20	13	25,0	1033-U11	1033-U24	150	20	13	25,0	1033-U33	1033-U41
180	20	14	25,0	1033-U13*	1033-U26*	180	20	14	25,0	1033-U34	1033-U42
200	23	16	28,5	1033-U60	1033-U61	200	23	16	28,5	1033-U63	1033-U64
* = to be in stock											

Weld-on hinges, aluminium and stainl. steel version on request

Hinge

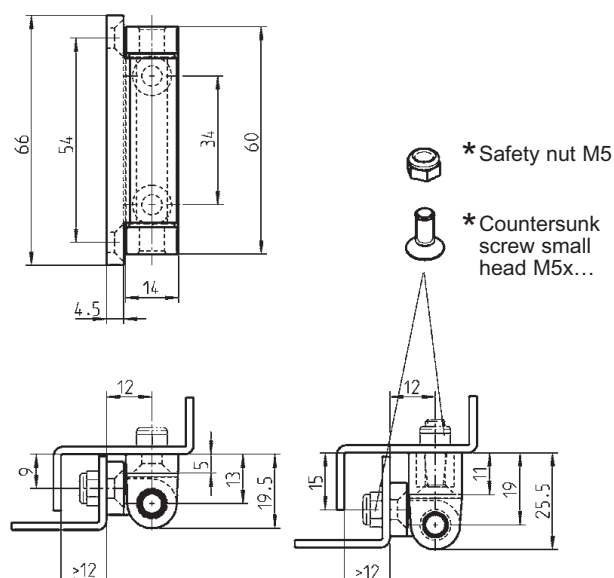
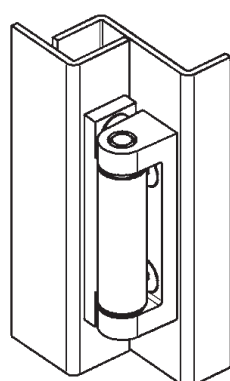
PROGRAM 1054



Hinge zinc die, door part m.s. raw, pin and washer m.s. zinc pl.

chrome plated	1054-U2	1054-U14
black powder coated	1054-U8	1054-U15
raw	1054-U26 **	1054-U25 **

**=Minimum order quantity: 1000 pieces



Hinge zinc die, pin stainl. steel and bushes polyamide

chrome plated	1054-U3	1054-U16
black powder coated	1054-U9	1054-U17
raw	1054-U23 **	1054-U24 **

** = Minimum order quantity: 1000 pieces

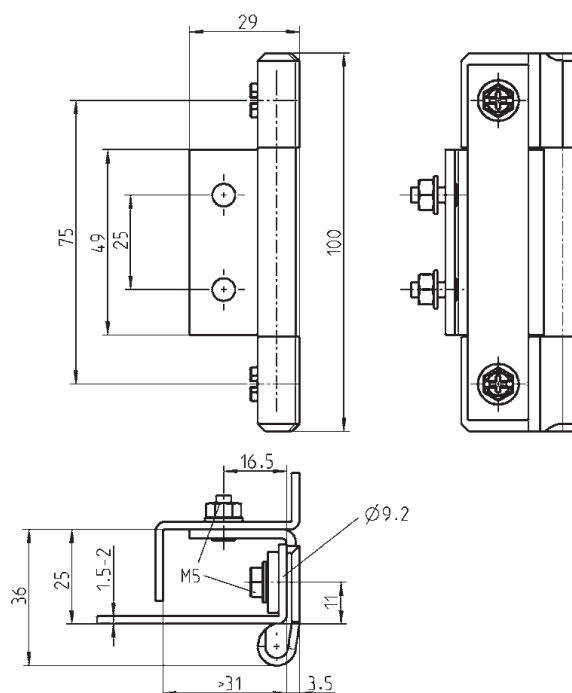
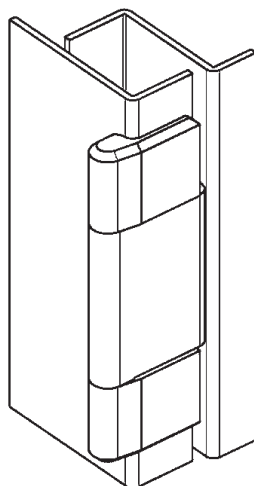
* not included

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



180°hinge PROGRAM 1110

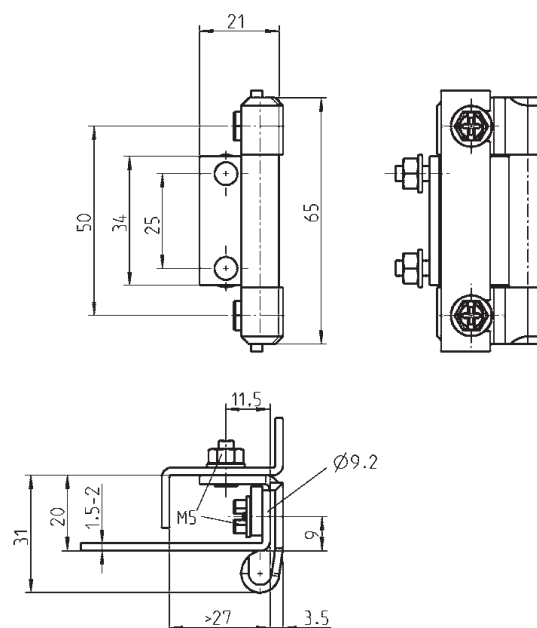
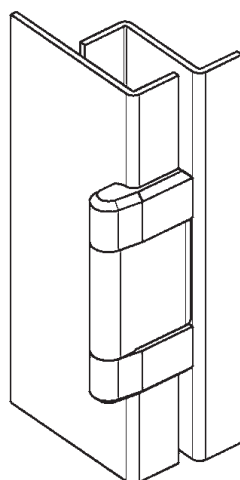
180° hinge for in-line cabinets with adjacent door
25 mm door return



180° hinge zinc die and m.s. black p.c.,
fixing material m.s. zinc pl.

1110-U26

180° hinge for in-line cabinets with adjacent door
20 mm door return



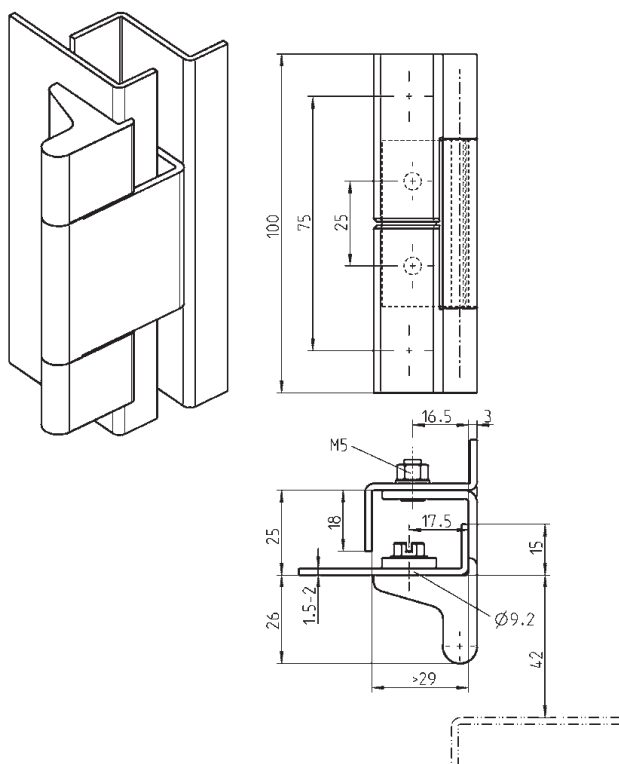
180° hinge zinc die and m.s. black p.c.,
fixing material m.s. zinc pl.

1110-U114

180° hinge

PROGRAM 1110

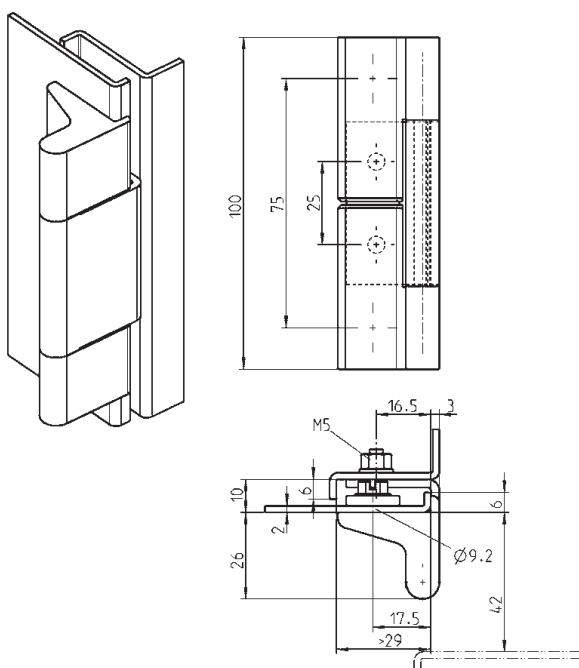
180° hinge for in-line cabinets with adjacent door
25 mm door return



180° hinge zinc die and m.s. black p.c.,
fixing material m.s. zinc pl.

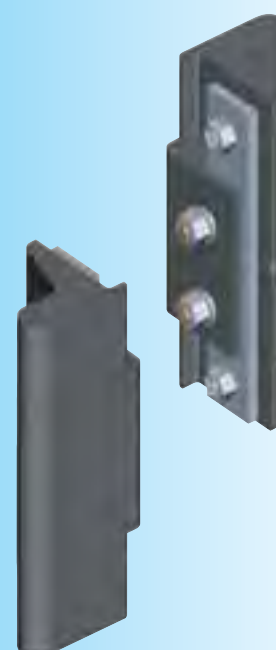
1110-U112

180° hinge for in-line cabinets with adjacent door
10 mm door return



180° hinge zinc die and m.s. black p.c.,
fixing material m.s. zinc pl.

1110-U113

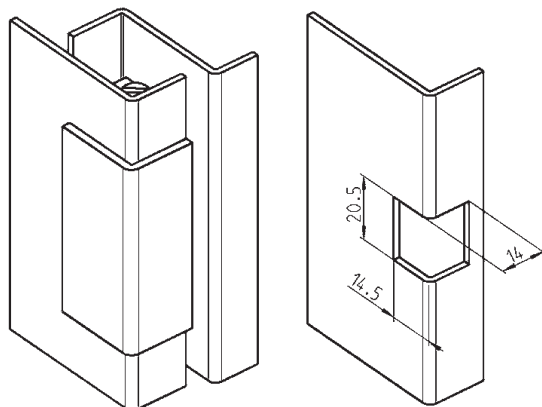


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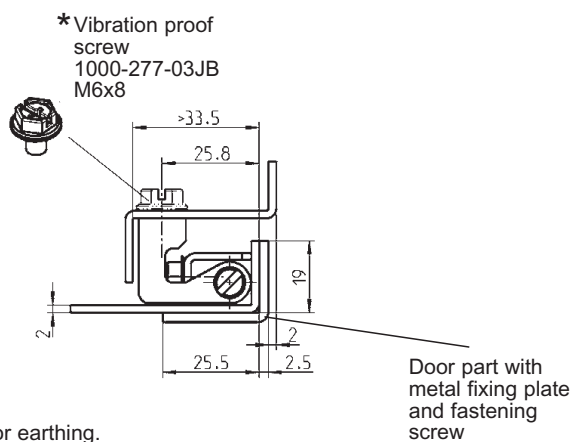
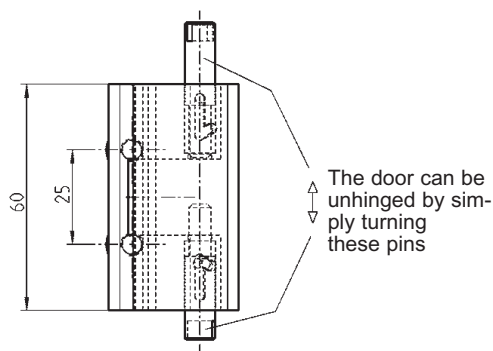
120° hinge with quick fastening

PROGRAM 1110

120° hinge
for 25 mm door return
easy door mounting



Cut out



Fixing plate with spikes for earthing.

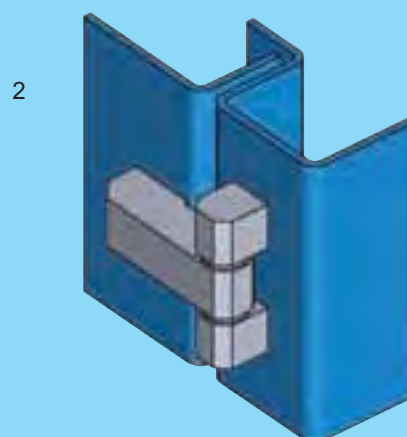
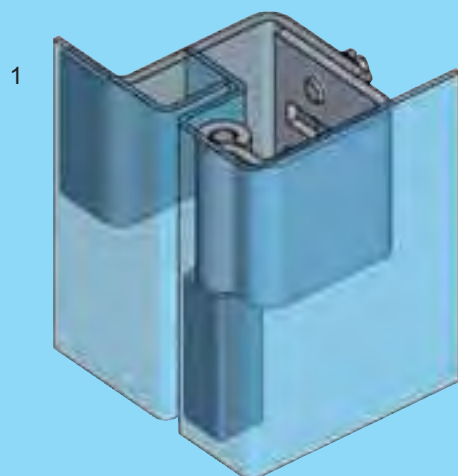
120° hinge zinc die black p.c., fixing material m.s. zinc pl.

1110-U111

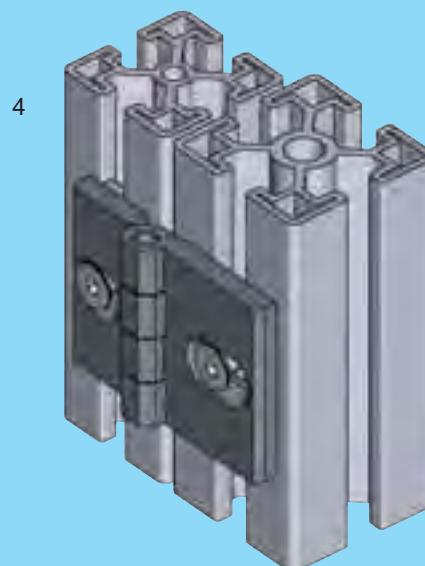
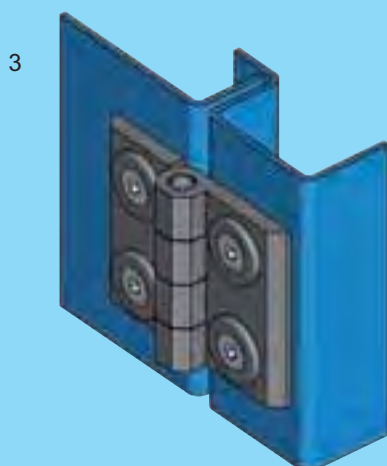
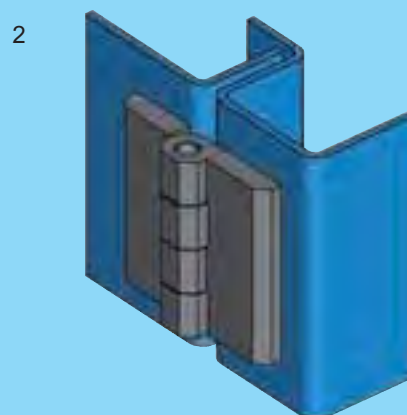
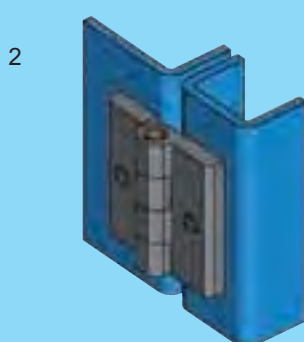
* not included

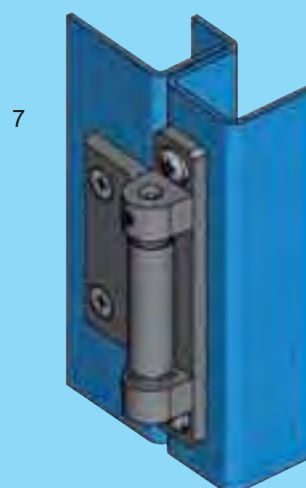
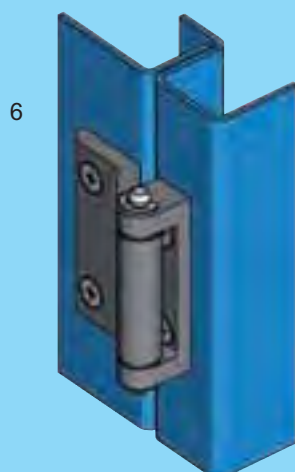
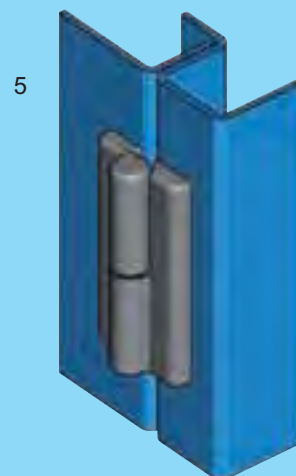
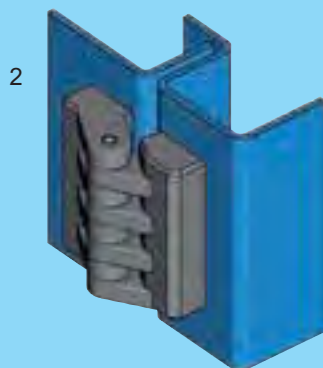


Hinge for flush door



Door and housing/frame pictured transparent





- 1 90° and 180° concealed hinge
- 2 180° and 270° prominent hinge
- 3 180° 2D prominent hinge
- 4 180° prominent hinge for aluminium profiles
- 5 180° prominent hinge and lift-off version
- 6 180° prominent hinge
- 7 180° 2D and 3D prominent hinge

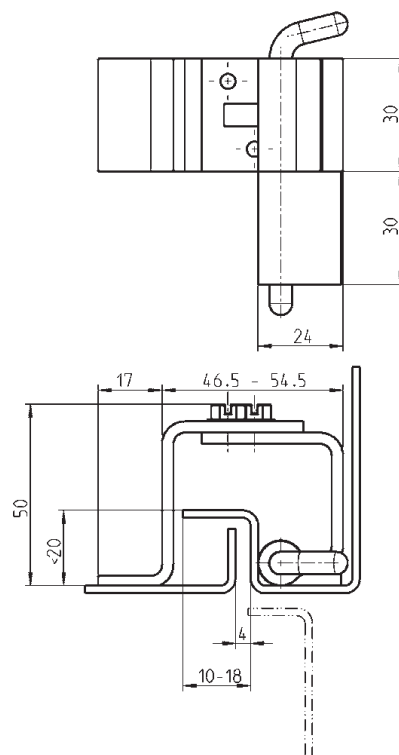
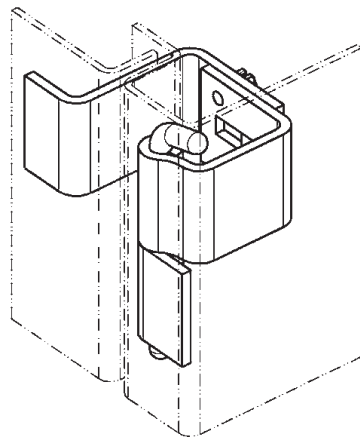
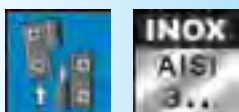
- 4B-120 up to 4B-140
- 4B-160 up to 4B-220, 4B-245
- 4B-215
- 4B-230
- 4B-240
- 4B-280 up to 4B-300
- 4B-250 up to 4B-260



4B-100

90° concealed hinge PROGRAM 1006, 1007

Beschlagteile

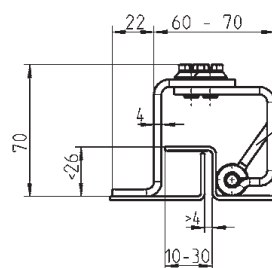
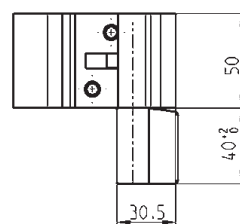
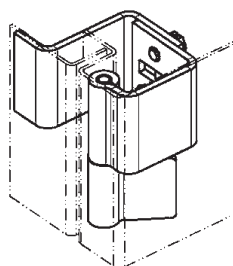


Concealed hinge

m.s. zinc pl., weld-on part m. s. raw
AISI 304 and AISI 303

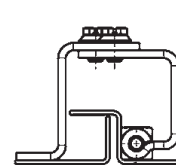
1006-U1

1006-U1-PC



hinge pin with
flag

hinge pin with
square



Concealed hinge m.s. zinc pl., weld-on parts m.s. raw

hinge pin with flag

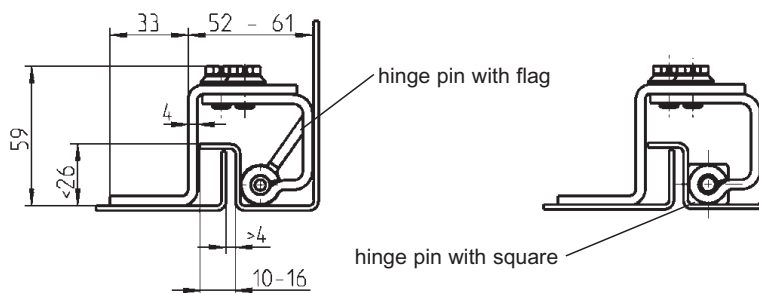
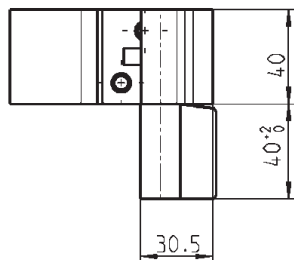
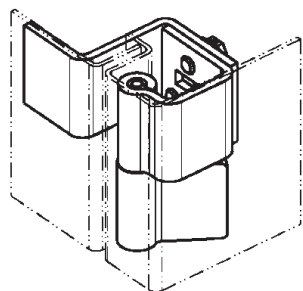
1007-U2

Hinge pin with square (17x50)

1007-U1

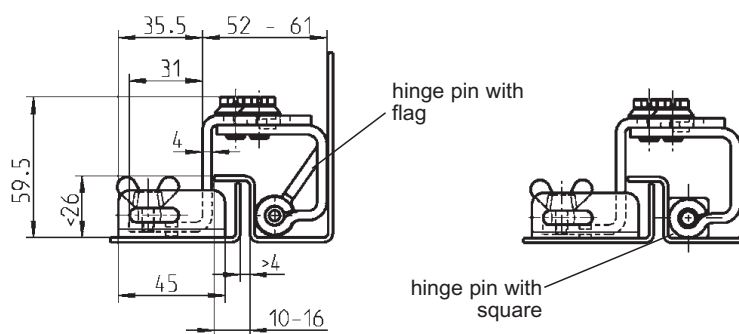
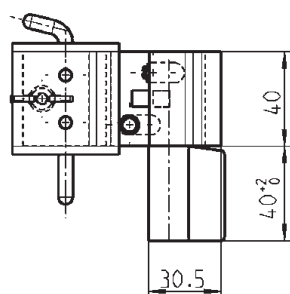
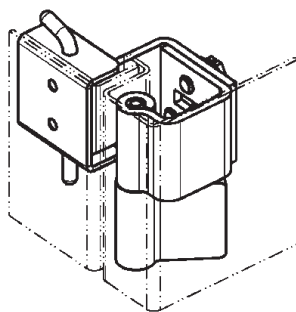
90° concealed hinge

PROGRAM 1046



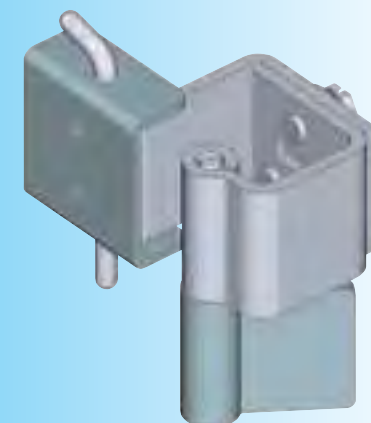
Concealed hinge m.s. zinc pl., weld-on parts m.s. raw or AISI 304 and AISI 303

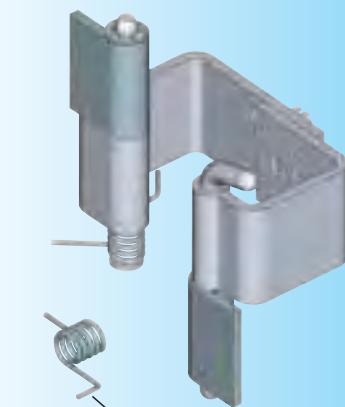
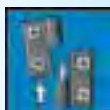
	m.s.	AISI 304
hinge pin with flag	1046-U1	1046-U5
Hinge pin with square (17x50)	1046-U3	—



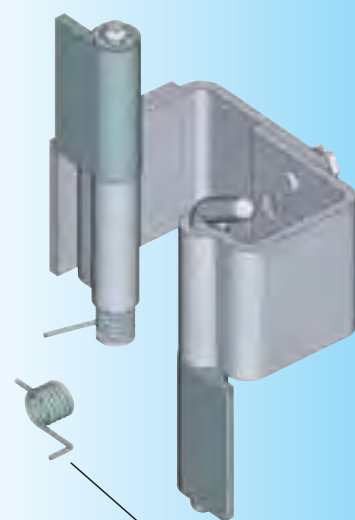
Concealed hinge m.s. zinc pl., weld-on parts m.s. raw

hinge pin with flag	1046-U2
hinge pin with square (17x50)	1046-U4

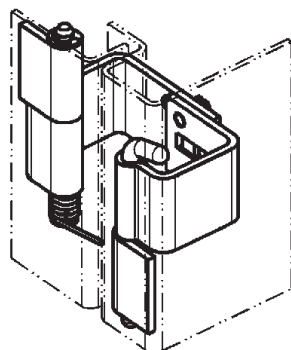




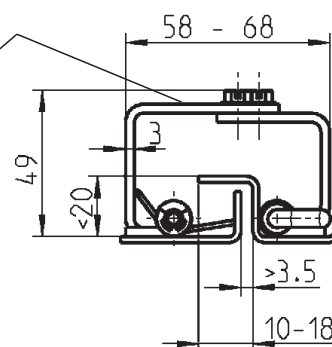
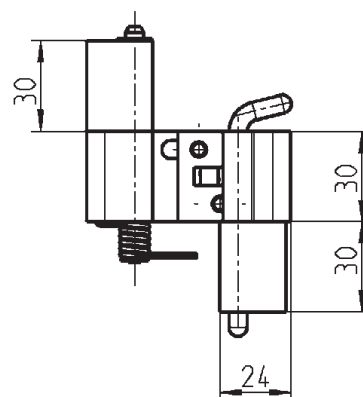
Spring for LH-version



Spring for LH-version

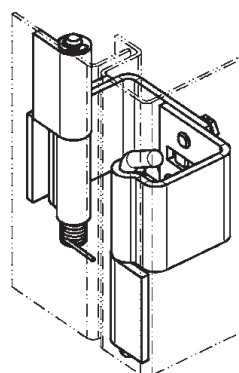


Hinges must be linked

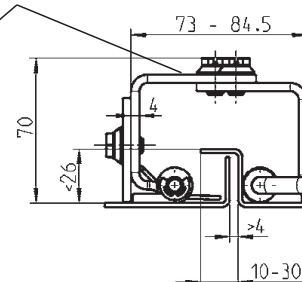
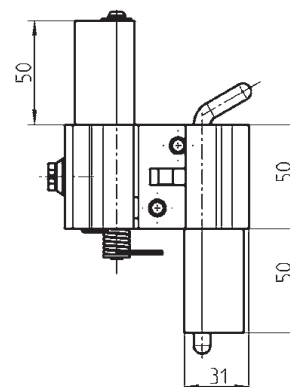


180° concealed hinge m.s. zinc pl., spring material spring steel, weld-on parts m.s.

1042-U1



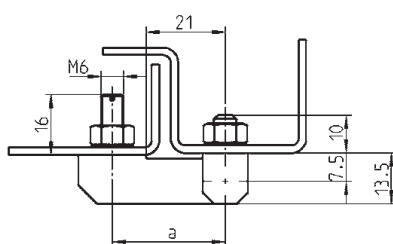
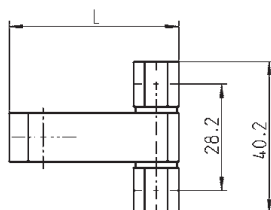
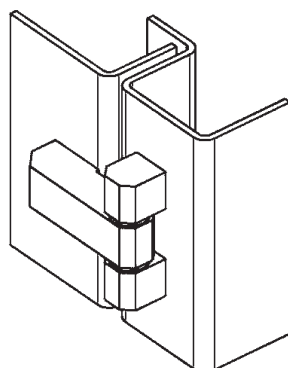
Hinges must be linked



180° concealed hinge m.s. zinc pl., spring material spring steel, weld-on parts m.s.

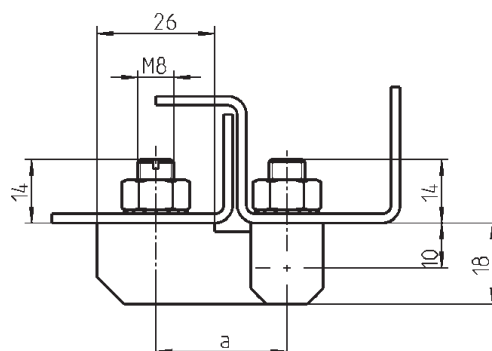
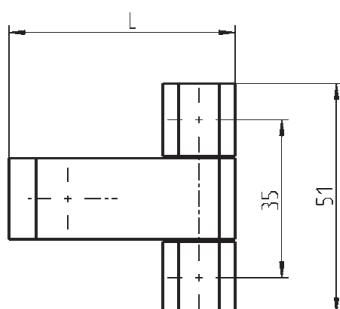
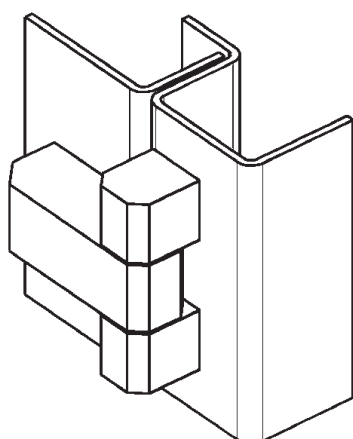
1043-U1

180° screw-on hinge PROGRAM 1039, 1055



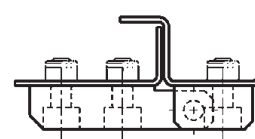
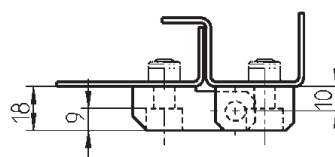
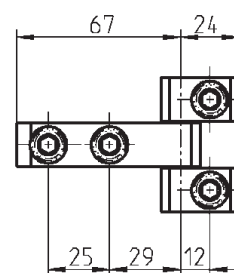
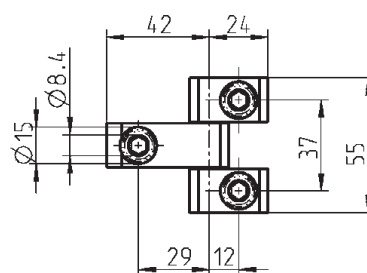
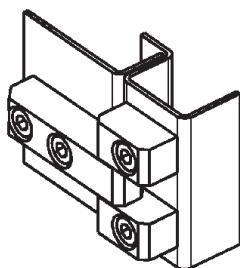
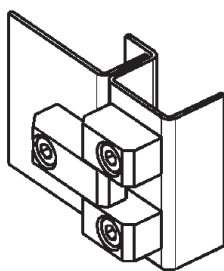
Screw-on hinge m.s. zinc pl., pin and washer brass nickel pl. or stainl. steel

L	a	m.s.	AISI 303	AISI 316
45	30	1055-U3	1055-U7	1055-U9
53	38	1055-U4	—	—



Screw-on hinge m.s. zinc pl., pin and washer brass nickel pl. or stainl. steel

L	a	m.s.	AISI 303	AISI 316
50	29	1039-U10	1039-U18	1039-U25
61	40	1039-U11	—	—



Screw-on hinge m.s. zinc pl., pin and washer brass nickel pl.

short middle part with one hole Ø 8,4 mm

1039-U13

short middle part without holes, weld-on part

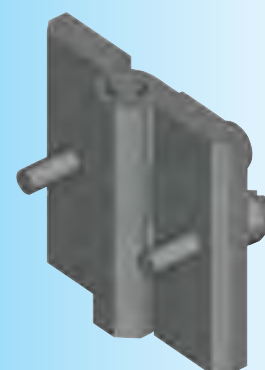
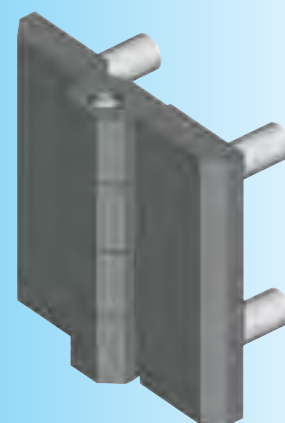
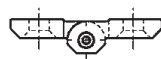
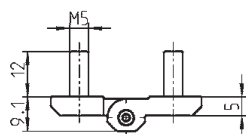
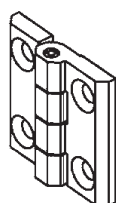
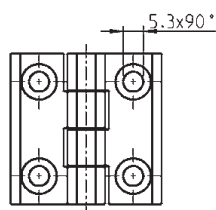
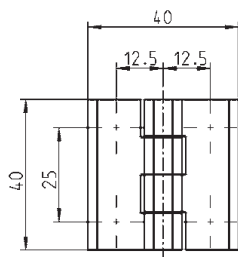
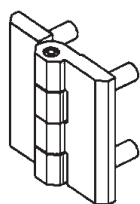
1039-U14

long middle part with two holes Ø 8,4 mm

1039-U15

180° screw-on hinge

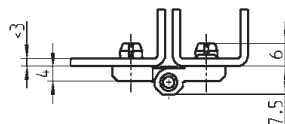
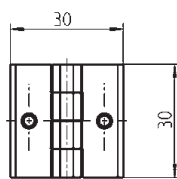
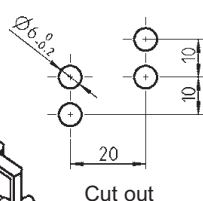
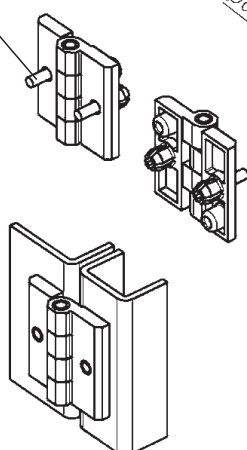
PROGRAM 1056



Screw-on hinge zinc die, polyamide or stainl. steel, threaded studs M5 stainl. steel

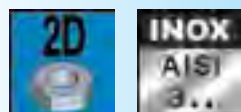
	pin	with threaded studs M5	for countersunk screw M5
zinc die chrome pl.	stainl. steel	1056-U3	1056-U5
zinc die black p.c.	stainl. steel	1056-U4	1056-U6
polyamide black	stainl. steel	—	1056-U30
polyamide black	polyamide	—	1056-U41
AISI 316	stainl. steel	—	1056-U5-PH

Fastening bolt



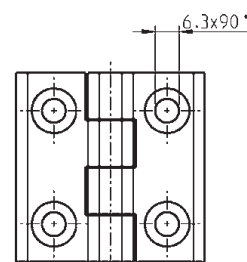
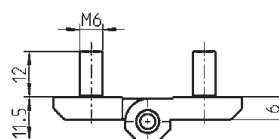
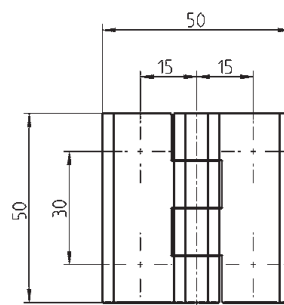
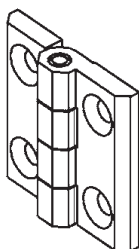
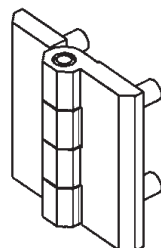
Hinge polyamide, pin and fixing material polyamide

1056-U32



180° screw-on hinge

STAINLESS STEEL



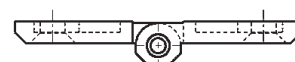
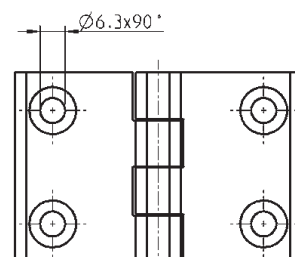
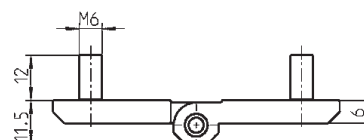
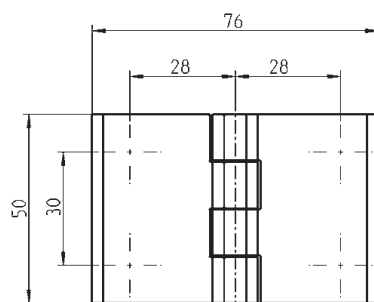
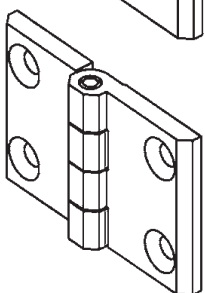
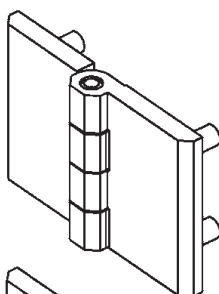
Screw-on hinge zinc die, polyamide or stainl. steel, threaded studs M6 stainl. steel

	pin	with threaded studs M6	for countersunk screw M6 (2D-nut possible)
zinc die chrome pl.	stainl. steel	1056-U7	1056-U9
zinc die black p.c.	stainl. steel	1056-U8	1056-U10
polyamide black	stainl. steel	–	1056-U31
polyamide black	polyamide	–	1056-U42
AISI 316	stainl. steel	–	1056-U9-PH



270° screw-on hinge

STAINLESS STEEL



Screw-on hinge zinc die or stainl. steel, threaded studs M6 stainl. steel

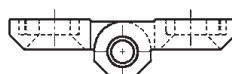
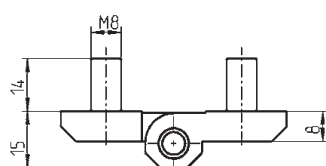
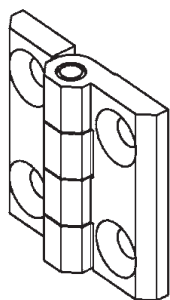
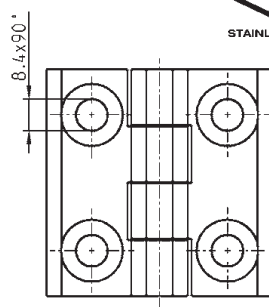
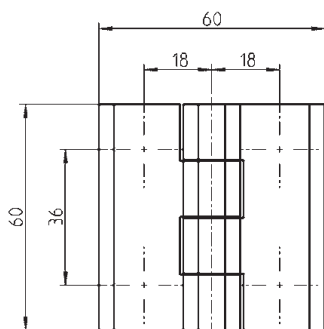
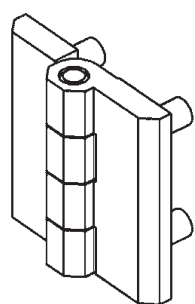
	pin	with threaded studs M6	for countersunk screw M6 (2D-nut possible)
zinc die chrome pl.	stainl. steel	1056-U15	1056-U17
zinc die black p.c.	stainl. steel	1056-U16	1056-U18
AISI 316	stainl. steel	–	1056-U17-PH

Further parts see page
– 2D-nut

12E-120

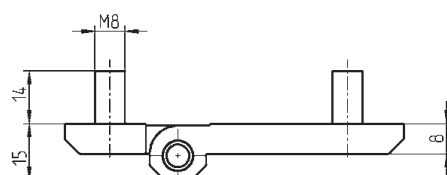
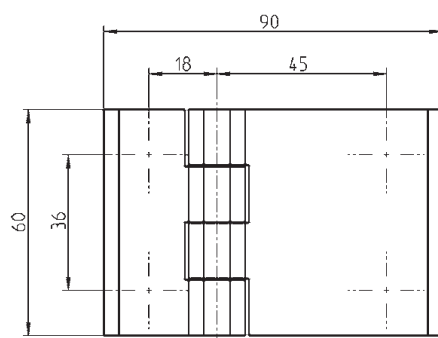
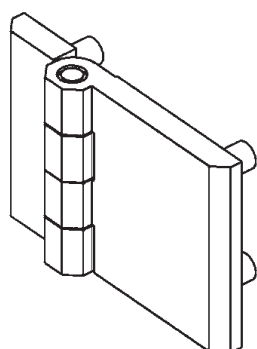
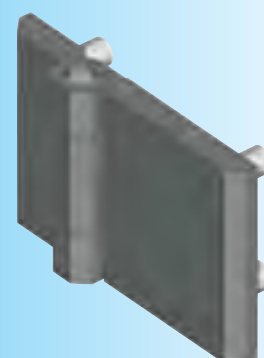
180° screw-on hinge

PROGRAM 1056



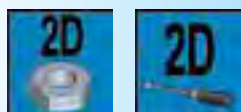
Screw-on hinge zinc die or polyamide, threaded studs M8 stainl. steel

	pin	with threaded M8	for countersunk screw studs M8
zinc die chrome pl.	stainl. steel	1056-U11	1056-U13
zinc die black p.c.	stainl. steel	1056-U12	1056-U14
AISI 316	stainl. steel	—	1056-U13-PH

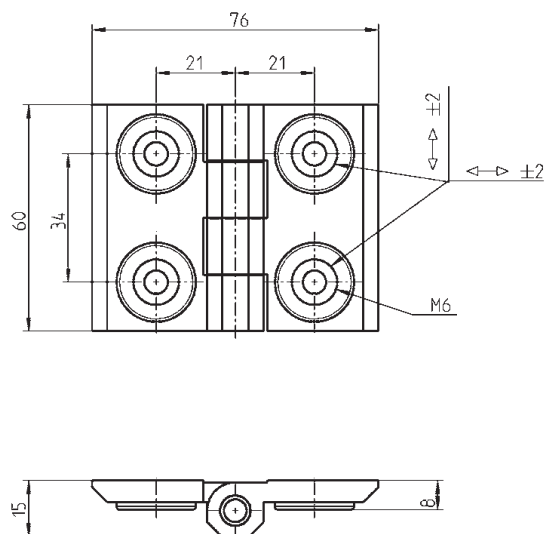
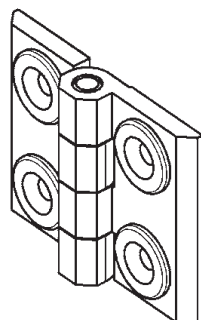


Screw-on hinge zinc die, threaded studs M8 stainl. steel

chrome plated	1056-U19
black powder coated	1056-U20



180° 2D-screw-on hinge

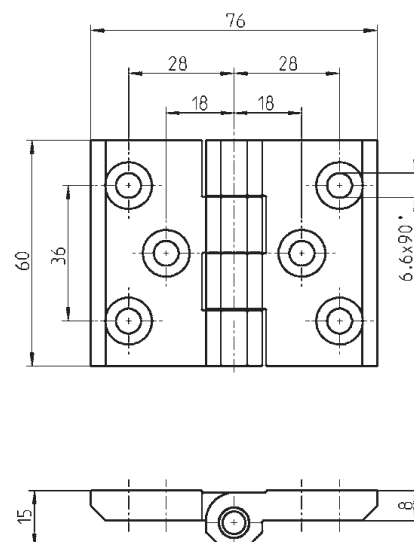
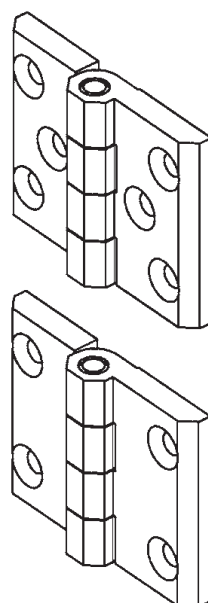


Adjustable ± 2 mm
in the horizontal
and vertical direction

2D screw-on hinge zinc die black p.c., pin stainl. steel

1056-U27

180° screw-on hinge



Further parts see page
– 2D-nut

12E-120

screw-on hinge zinc die black p.c., pin stainl. steel

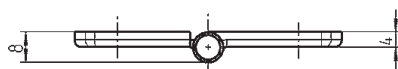
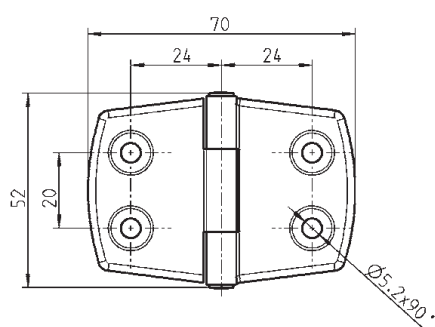
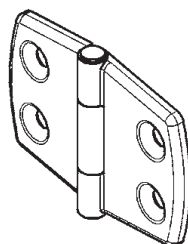
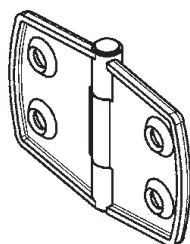
with 4 countersunk holes for screw M6 (2D-nut possible)

1056-U29

with 6 countersunk holes for screw M6 (2D-nut possible)

1056-U28

180° screw-on hinge PROGRAM 6020



screw-on hinge for countersunk screw small head M5 AISI 316 polished

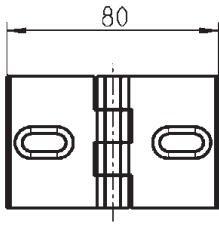
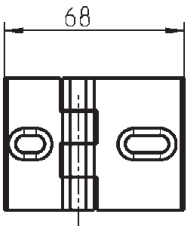
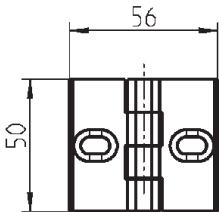
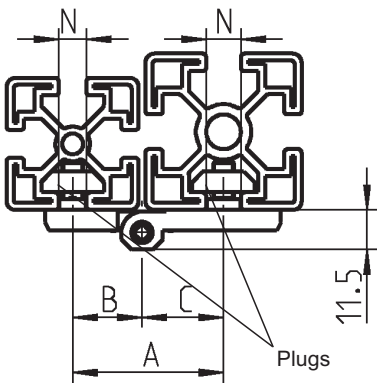
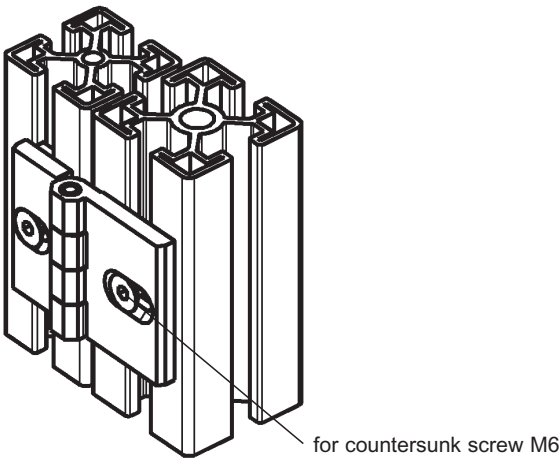
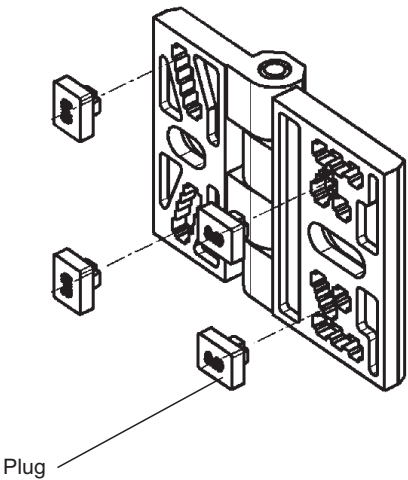
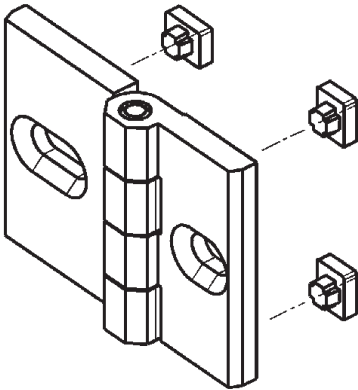
6020-U1098-PP

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

4B-220 04/07

Hinge for aluminium profiles

PROGRAM 1056

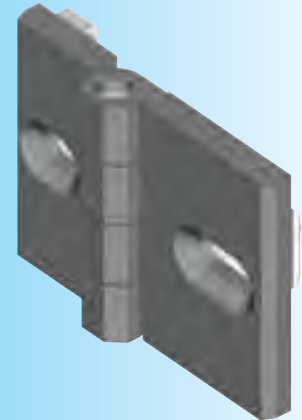


Hinge for aluminium profiles zinc die black p.c., pin stainless steel and plugs zinc die

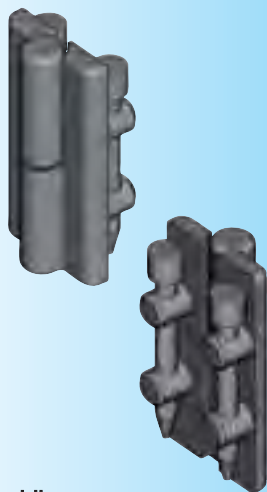
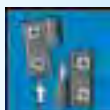
Plugs	8x10	1056-U21	Plugs	8x10	1056-U22	Plugs	8x10	1056-U23
	7x10	1056-U24		7x10	1056-U25		7x10	1056-U26



- for location of socket for plug please refer to rear of hinge
- this hinge can be installed with aluminium profiles from several renowned manufactures
- this hinge offers versatility due to several location options for plugs on the rear
- for four plugs, supplied with each of the hinges, provide protection against twisting and are suitable for slots of N = 8 and 10 or N = 7 and 10 mm (other N-dimensions on request)



Plugs 8x10 1056-U21 Plugs 7x10 1056-U24			Plugs 8x10 1056-U22 Plugs 7x10 1056-U25			Plugs 8x10 1056-u23 Plugs 7x10 1056-U26		
A	socket		A	socket		A	socket	
	B	C		B	C		B	C
33	16,5	16,5	37,5	16,5	21	42	21	21
34	16,5	17,5	38	16,5	21,5	42,5	21	21,5
35	16,5	18,5	40	16,5	23,5	44,5	21	23,5
35,5	16,5	19	42,5	16,5	26	47	21	26
36,5	16,5	20	44	16,5	27,5	48,5	21	27,5
35	17,5	17,5	47,5	16,5	31	52	21	31
36	17,5	18,5	38,5	17,5	21	43	21,5	21,5
36,5	17,5	19	39	17,5	21,5	45	21,5	23,5
37,5	17,5	20	41	17,5	23,5	47,5	21,5	26
37	18,5	18,5	43,5	17,5	26	49	21,5	27,5
37,5	18,5	19	45	17,5	27,5	52,5	21,5	31
38,5	18,5	20	48,5	17,5	31	47	23,5	23,5
38	19	19	39,5	18,5	21	49,5	23,5	26
39	19	20	40	18,5	21,5	51	23,5	27,5
40	20	20	42	18,5	23,5	54,5	23,5	31
			44,5	18,5	26	52	26	26
			46	18,5	27,5	53,5	26	27,5
			49,5	18,5	31	57	26	31
			40	19	21	55	27,5	27,5
			40,5	19	21,5	58,5	27,5	31
			42,5	19	23,5	62	31	31
			45	19	26			
			46,5	19	27,5			
			50	19	31			
			41	20	21			
			41,5	20	21,5			
			43,5	20	23,5			
			46	20	26			
			47,5	20	27,5			
			51	20	31			



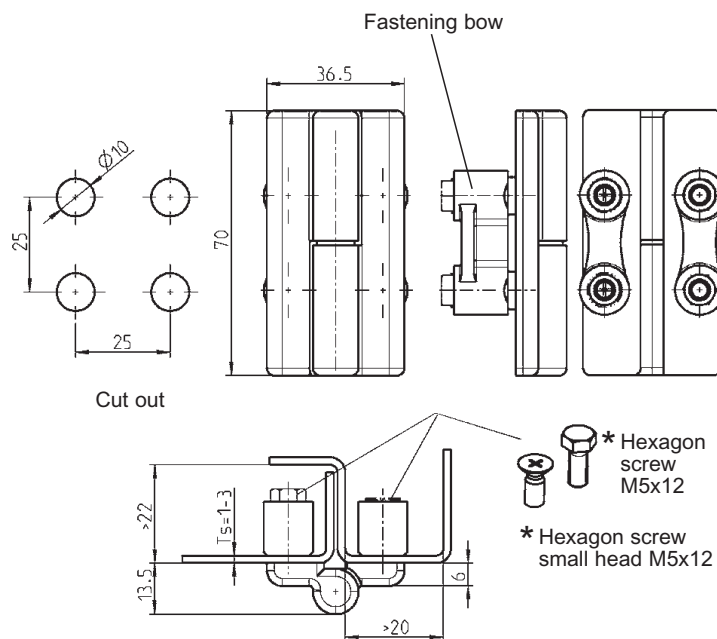
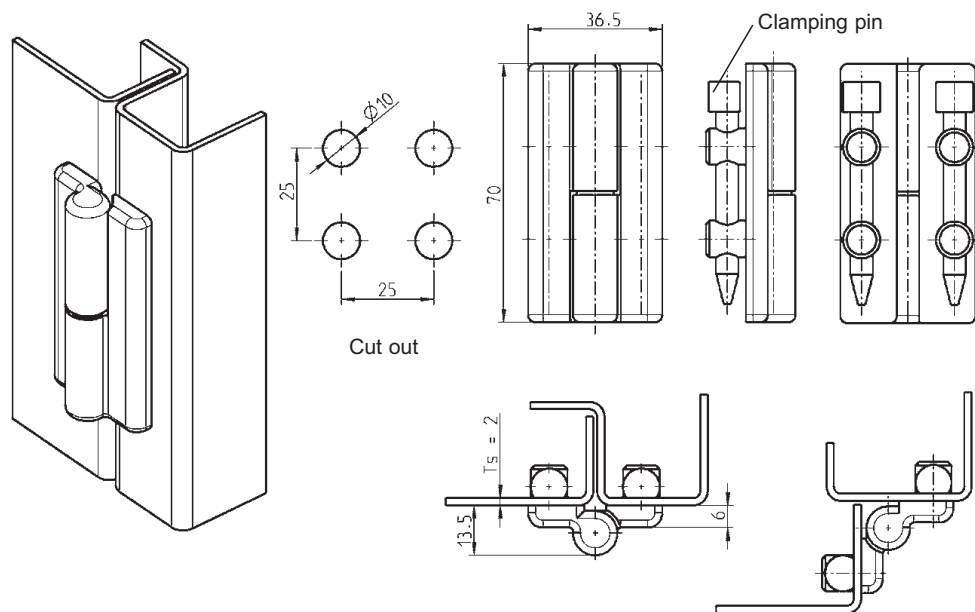
Assembling:

Hinge is to be fixed just by knocking in the PA pins.
Releasing force in Z direction: 1500 N



* not included

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



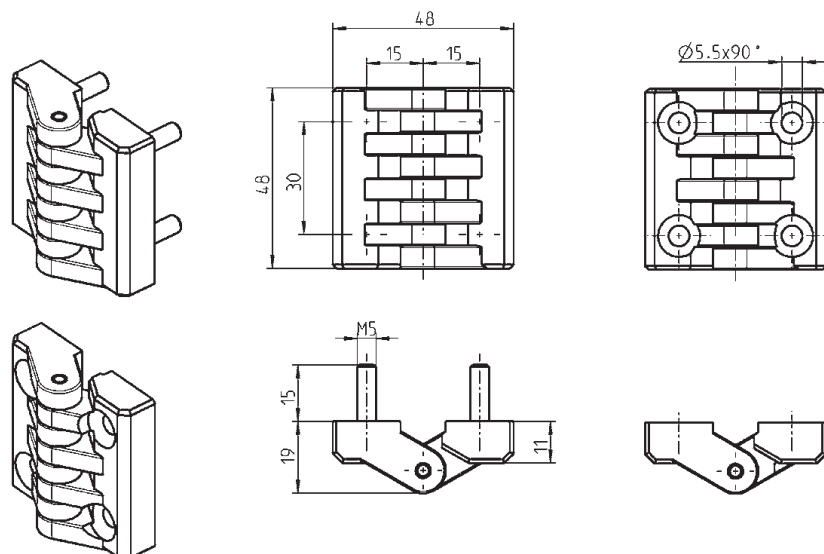
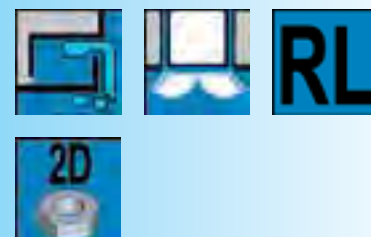
Spacer plate has to be ordered sep. for different door gauges
(one plate per clamping bar)

Hinge for Ts	change into Ts
1.5	1.0 ... 1110-39-02
2.0	1.0 ... 1110-39-03
2.0	1.5 ... 1110-39-02

Hinge with clamping pin zinc die black p.c. or polyamide black, clamping pin polyamide black, hinge pin stainl. steel		
		Zinc die polyamide
Ts = 1.5	RH	–
Ts = 1.5	LH	–
Ts = 2.0	RH	1056-U35
Ts = 2.0	LH	1056-U33
Hinge with fastening material zinc die black p.c., pin stainl. steel		
RH		1056-U44
LH		1056-U43

180° screw-on hinge with knuckles

PROGRAM 1056



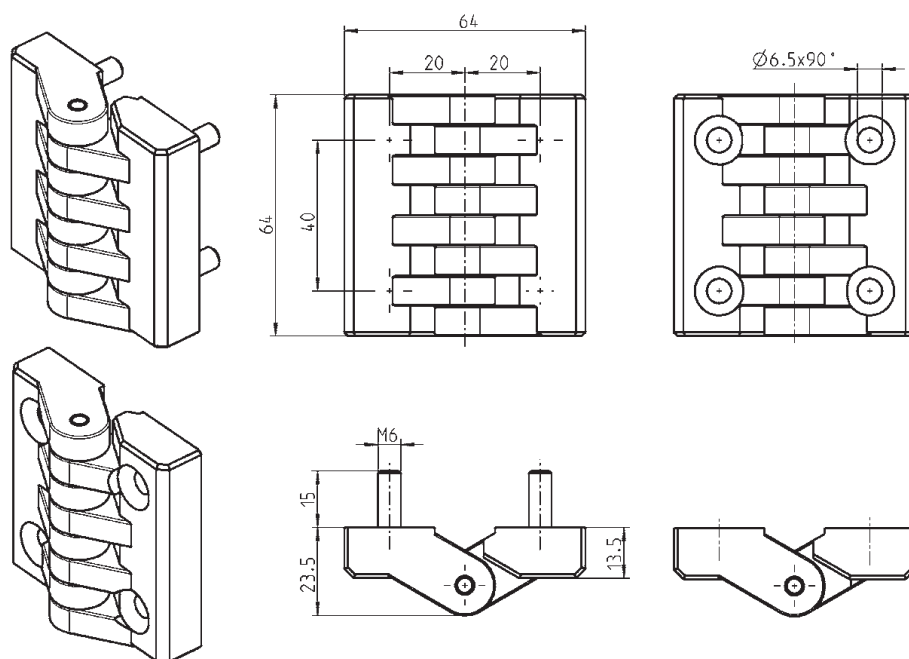
Screw-on hinge polyamide black, pin m.s. zinc plated

for countersunk screw M5

1056-U37

with threaded studs M5

1056-U38



Screw-on hinge polyamide black, pin m.s. zinc plated

for countersunk screw M6 (2D-nut possible)

1056-U39

with threaded studs M6

1056-U40

Further parts see page
– 2D-nut

12E-120



RL

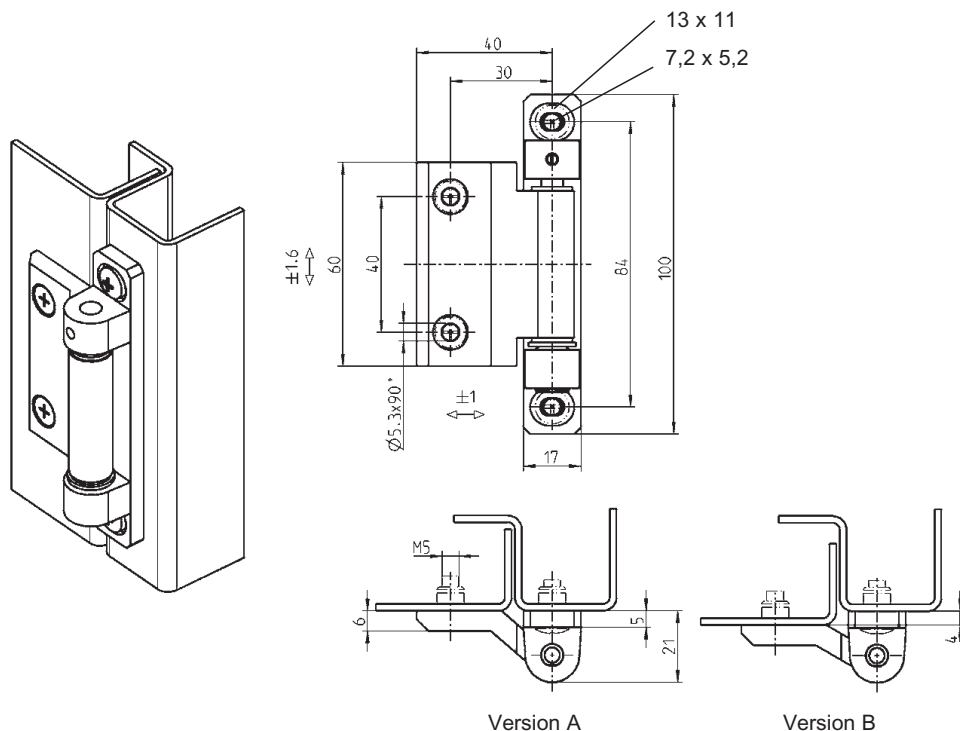


RH- or LH-version by turning around the door part.

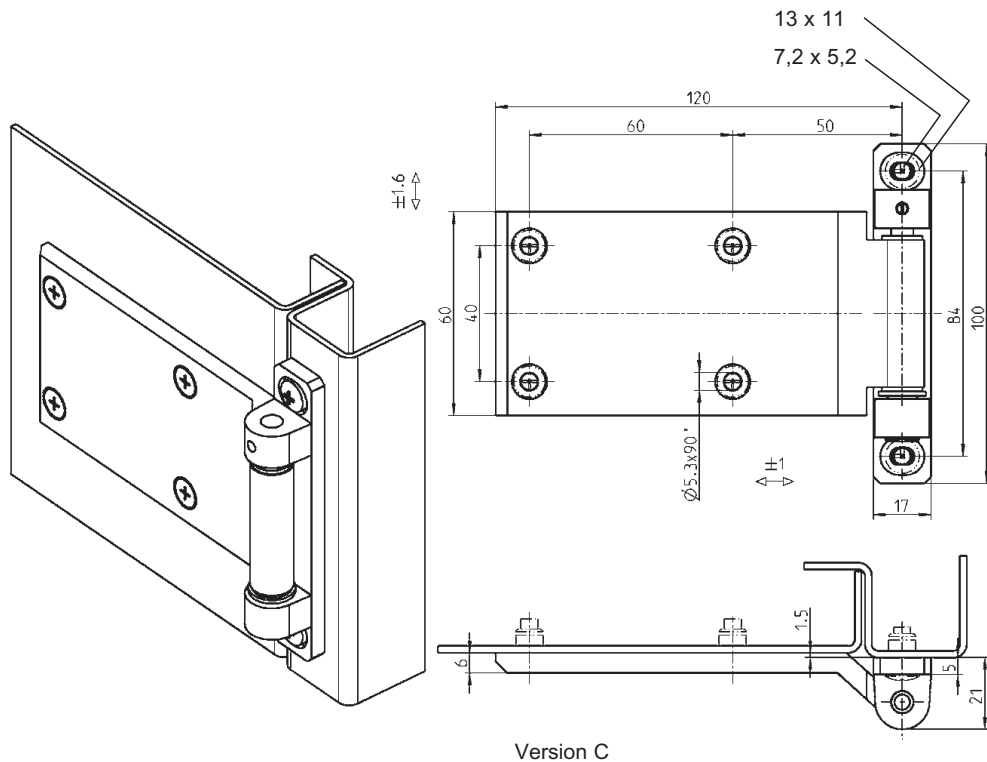
Hinge pin is self-gripping



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

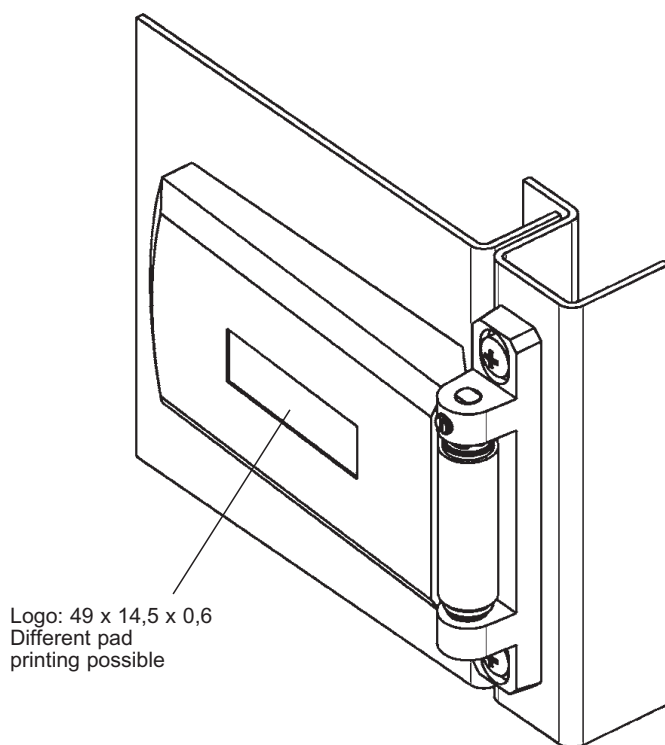


Countersunk for small head countersunk screw M5x

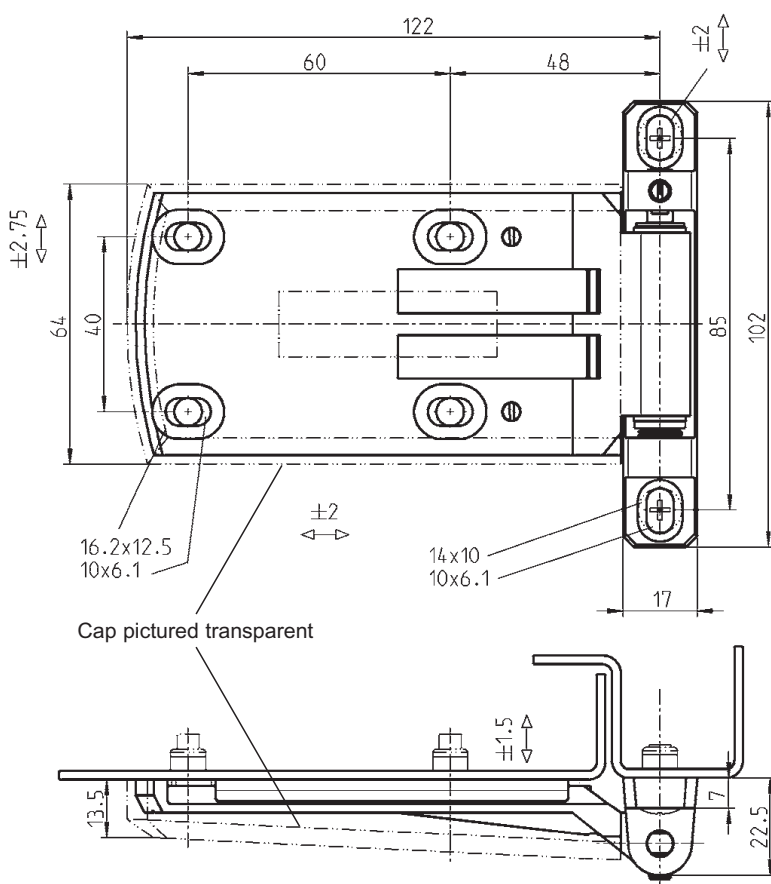


2D-screw-on hinge zinc die, axle brass nickel pl., washer m.s. zinc pl. and bush polyamide

	Version A	Version B	Version C
black powder coated	1054-U33-01	1054-U34-01	1054-U35-01
raw	1054-U33-02	1054-U34-02	1054-U35-02

PROGRAM 1054

Logo: 49 x 14,5 x 0,6
Different pad
printing possible



**3D-screw-on hinge zinc die black, axle stainless steel,
pin and washer steel zinc pl., cap and bush polyamide black**

RH version

1054-U36-RE

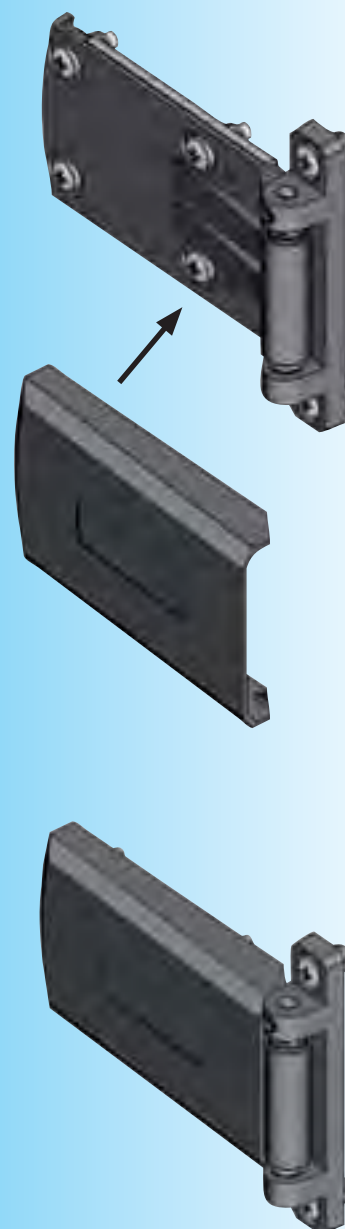
LH version

1054-U36-LI

Beschlagteile

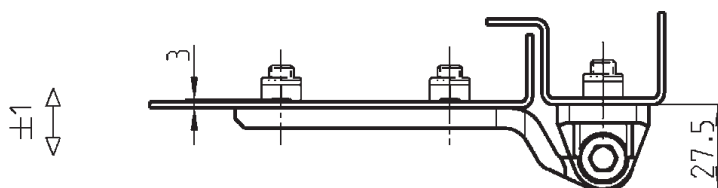
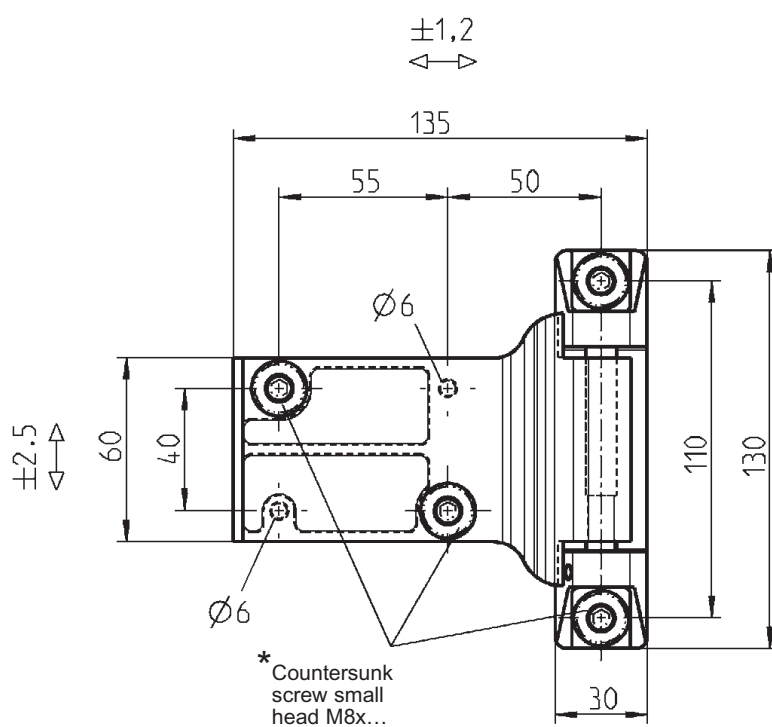
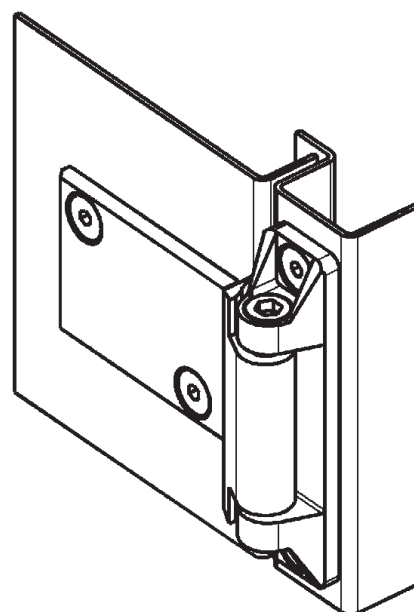


RL



RH- or LH-version by turning around the door part

4B-255



* not included

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

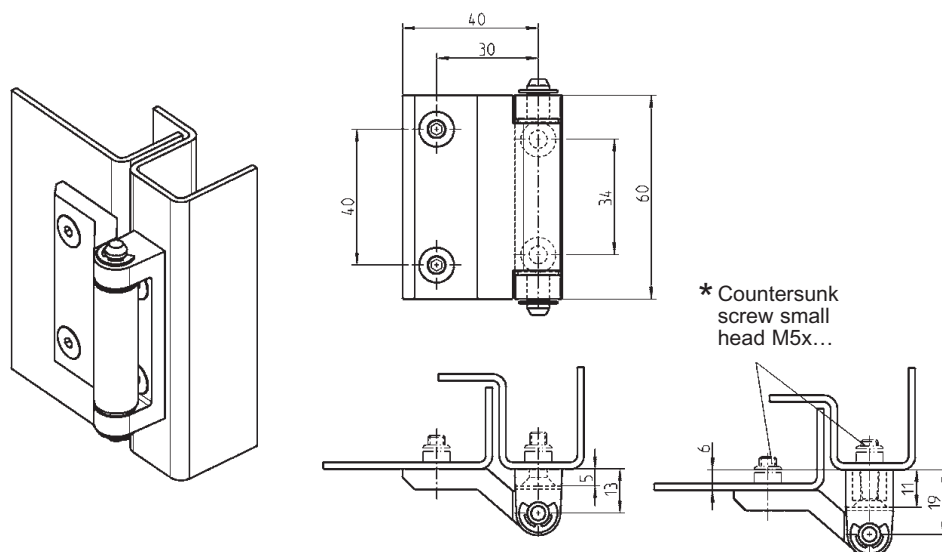
3D-screw-on hinge zinc die, shaft and grub screw stainless steel

	LH version	RH version
black powder coated	1054-U32	1054-U31
raw	1054-U32-01	1054-U31-01

4B-260 04/07

180° screw-on hinge

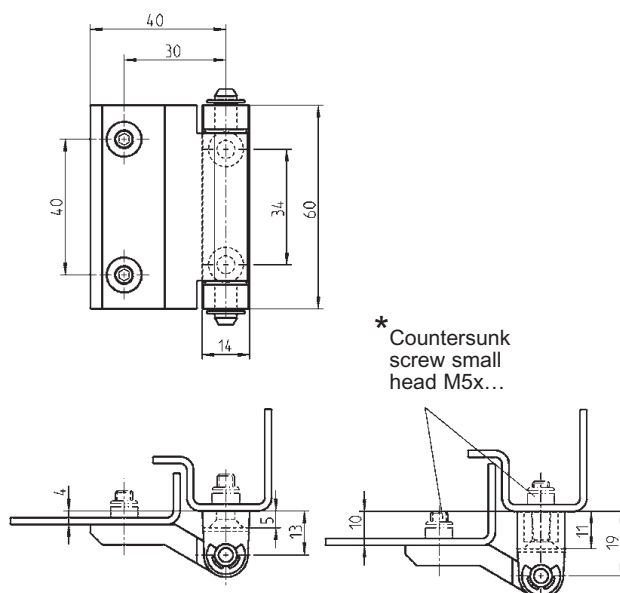
PROGRAM 1054



Screw-on hinge zinc die, pin and washer m.s. zinc pl. and bush polyamide

	level	6 mm higher
chrome plated	1054-U4	1054-U27
black powder coated	1054-U5	1054-U28
raw	1054-U22**	1054-U29**

** = Minimum order quantity 1000 pcs.



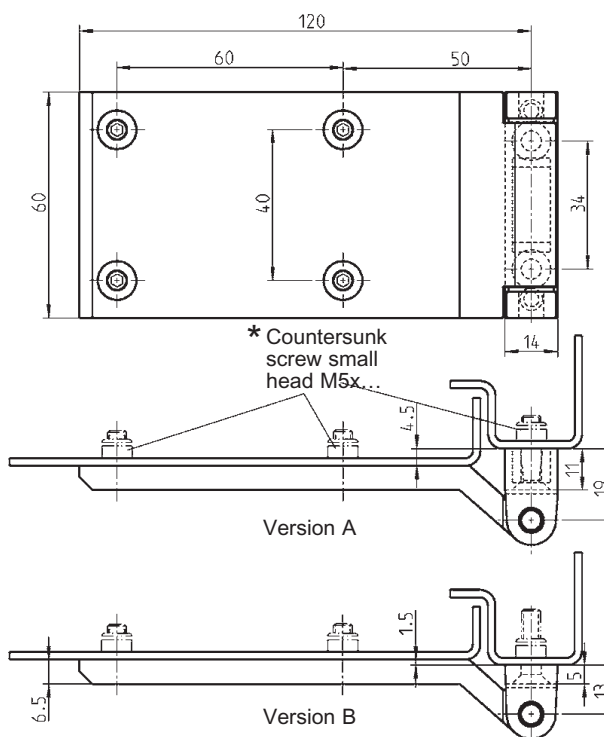
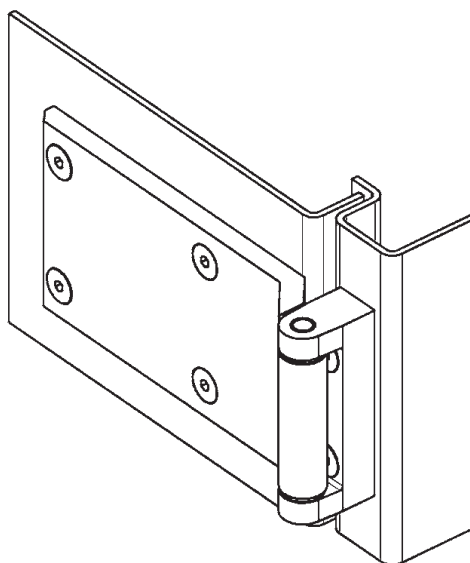
Screw-on hinge zinc die, pin and washer m.s. zinc pl. and bush polyamide

	4 mm higher	10 mm higher
chrome plated	1054-U7	1054-U19
black powder coated	1054-U10	1054-U20
raw	1054-U18**	1054-U21**

** = Minimum order quantity 1000 pcs.

* not included

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



* not included

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

Screw-on hinge zinc die, pin stainless steel and bushes polyamide

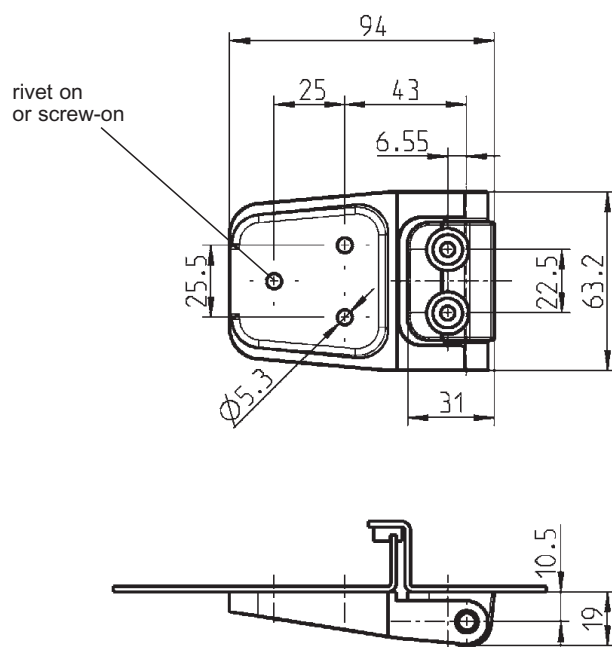
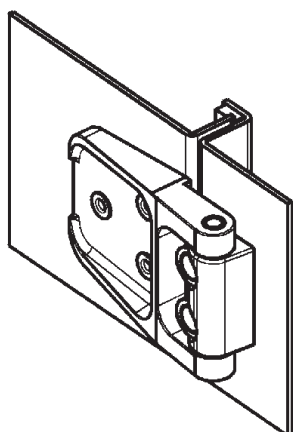
	Version A	Version B
black powder coated	1054-U11	1054-U6
raw	1054-U13**	1054-U12**

** = Minimum order quantity 1000 pcs.

Hinge

PROGRAM 1091

180° hinge for in-line cabinets with single door



Application
for double skin
doors

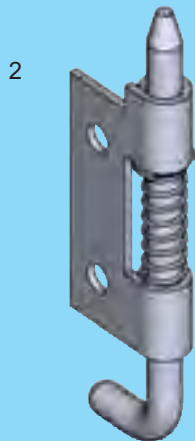
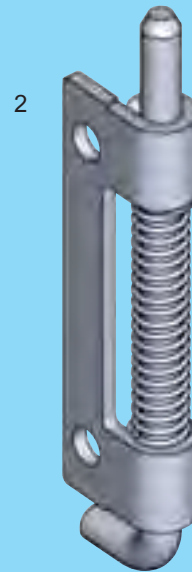
Hinge polyamide GF black, pin m.s. zinc pl.

1091-U117

4B-300

Notes:

Pin hinge Program 1117



- 1 Weld-on pin hinge
- 2 Screw-on pin hinge
- 3 Clip-in pin hinge

4C-120
4C-120
4C-130

4C-100

Info

1 Quarter turns

2 Rod controls

3 Locking
systems

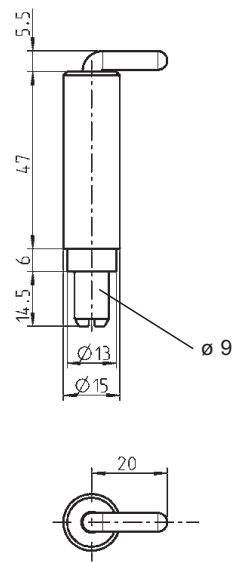
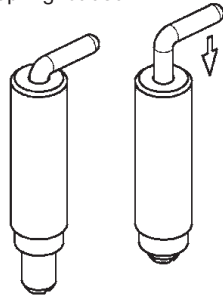
4 Hinges

Pin hinge

PROGRAM 1117



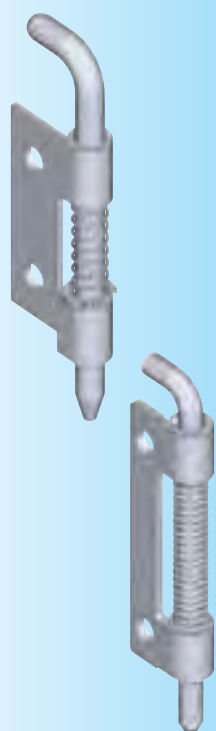
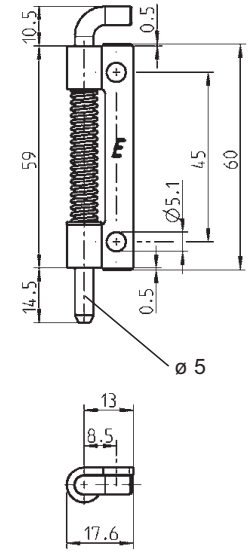
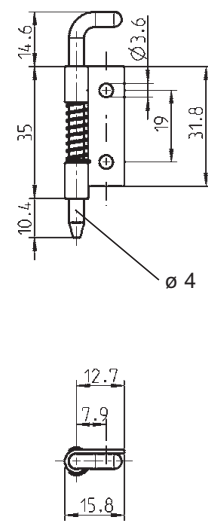
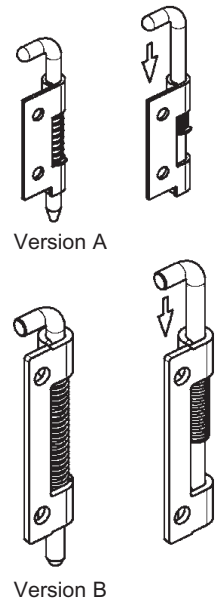
Spring loaded



Pin hinge m.s. zinc pl., spring material spring steel zinc pl., guide tube m.s. raw or stainless steel AISI 303

m.s.	1117-U1
AISI 303	1117-U1-PF

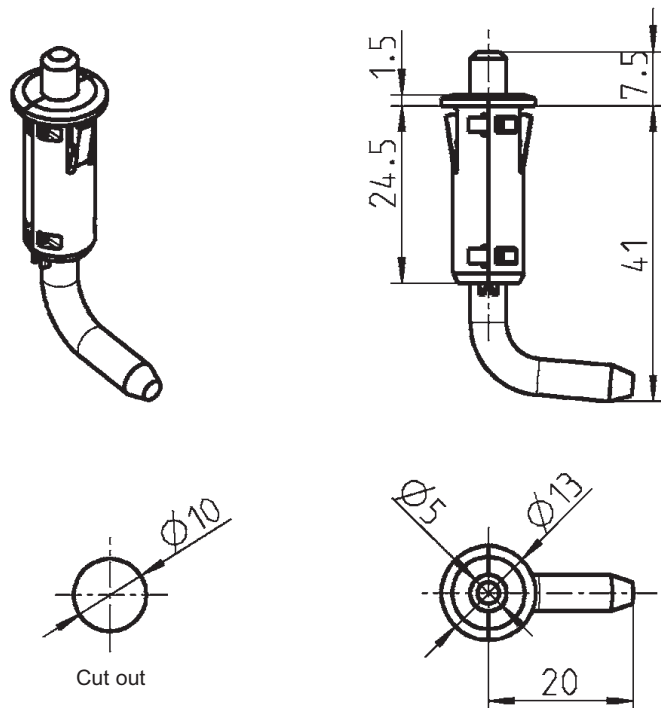
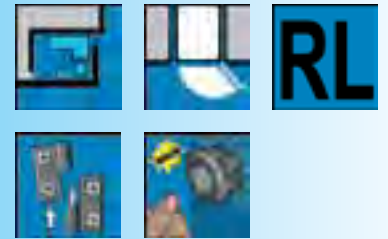
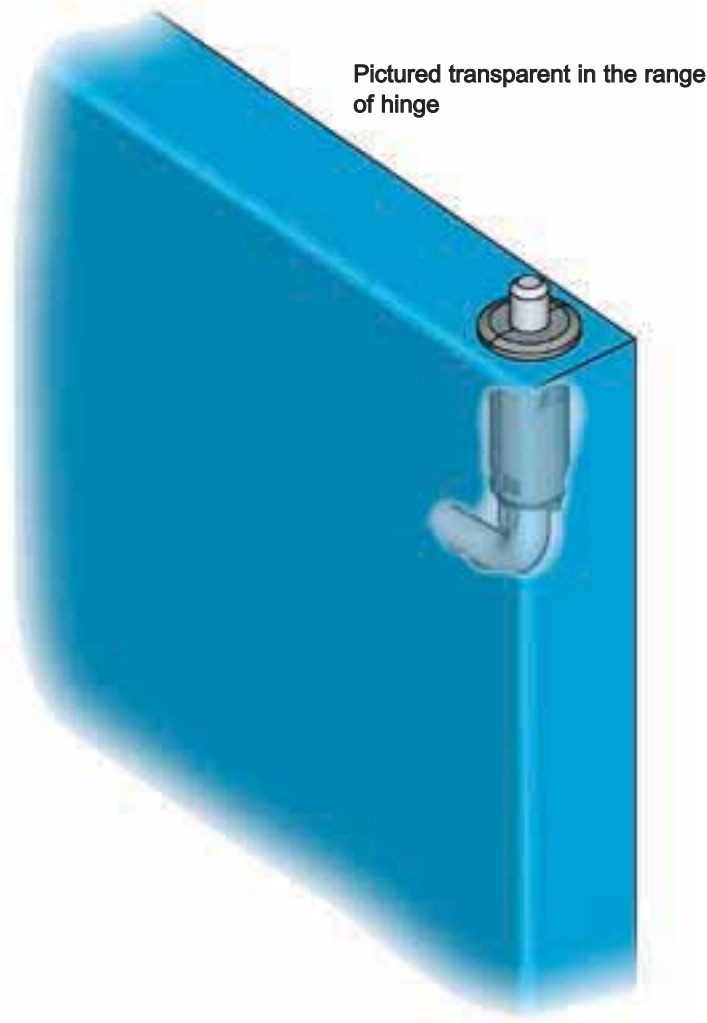
Spring loaded



Pin hinge m.s. zinc pl., spring material spring steel zinc pl.

RH-version A	1117-U2	LH-version A	1117-U3
RH-version B	1117-U4	LH-version B	1117-U5

Pin hinge PROGRAM 1117



Attention:
To use only with small doors.

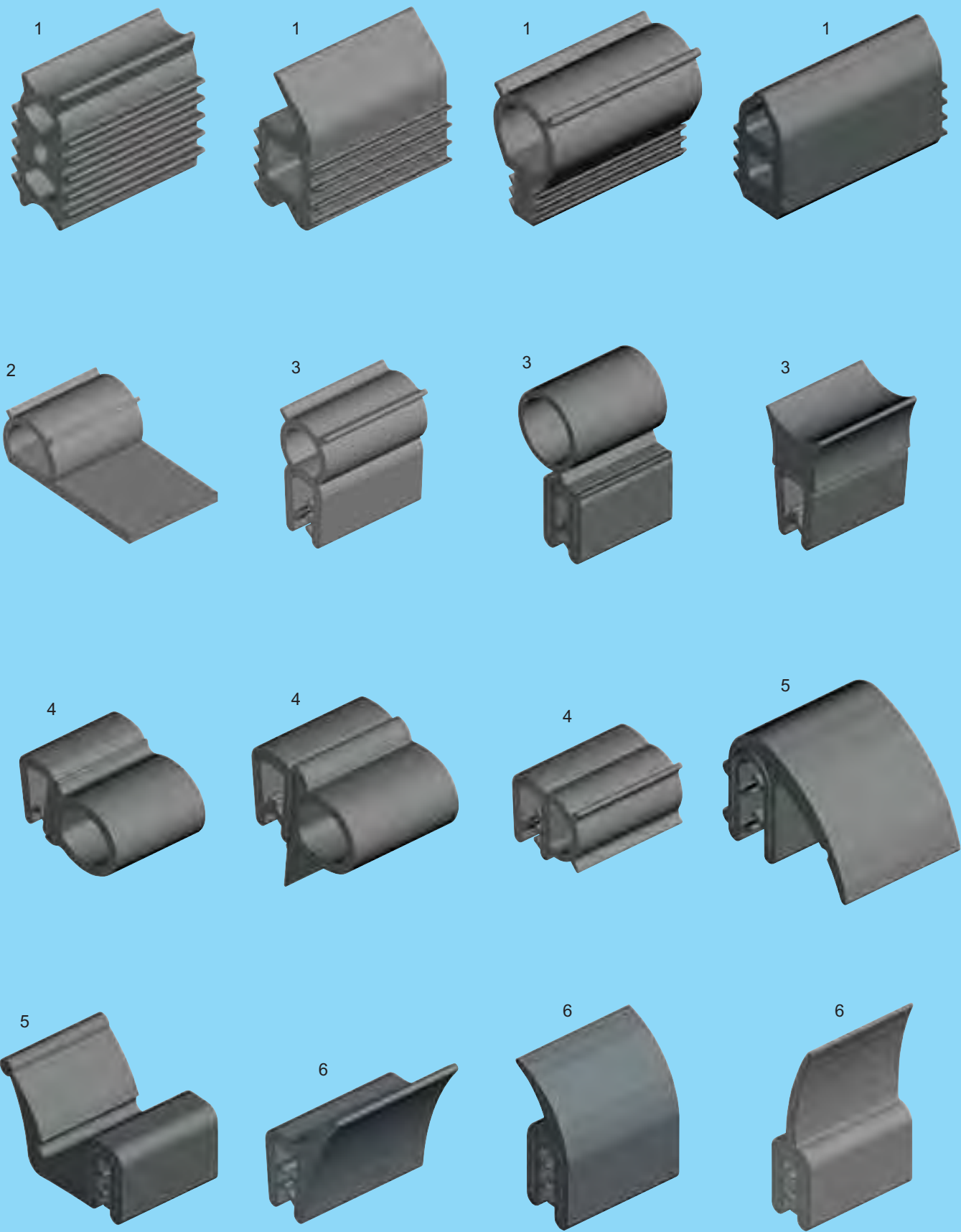
E.g. counter- (energy, gas, water) or toolboxes.

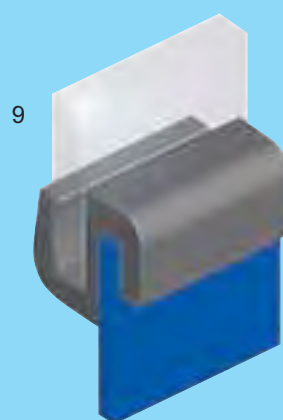
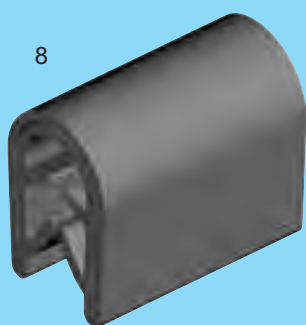
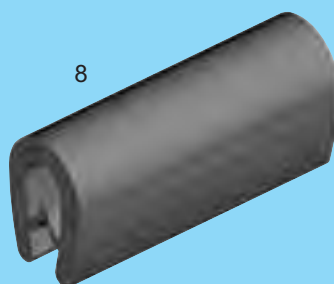
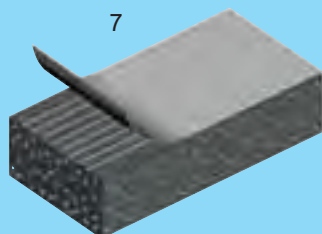
Pin hinge, guide tube polyamide black, pin zinc die, spring material spring steel zinc pl.

Ts = 1,0

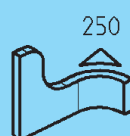
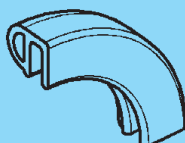
1117-U6

Gasket, edge protection and window rubber profile

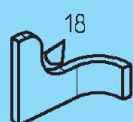
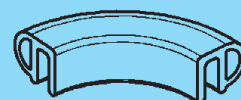




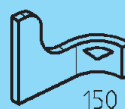
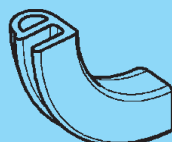
Minimum bending radius



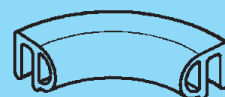
Minimum bending radius



Minimum bending radius



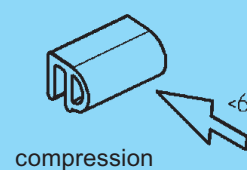
Minimum bending radius



- 1 Gasketing secured in a U-section
- 2 Gasketing
- 3 Self - gripping gasketing
- 4 Self - gripping gasketing
- 5 Self - gripping gasketing
- 6 Self - gripping gasketing
- 7 Cell sponge rubber, with stretch eliminating self-adhesive backing
- 8 Edge protection
- 9 Clamping profile and window rubber profile

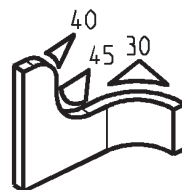
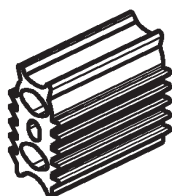
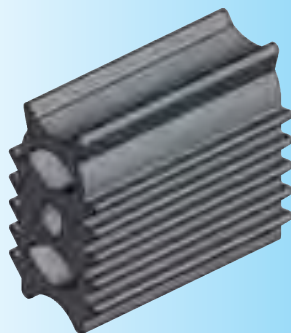
5A-120 up to 5A-160
5A-140, 5A-160
5A-220, 5A-240
5A-240 up to 5A-300
5A-300, 5A-320
5A-320 up to 5A-360
5A-440

5A-520 up to 5A-560
5A-620, 5A-640

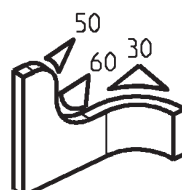


5A-100

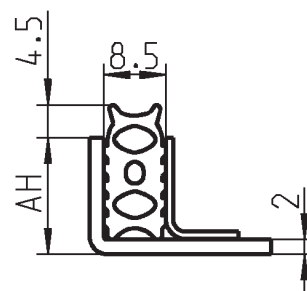
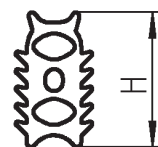
4 Lip gasket



1003-11-N - 1003-13-N



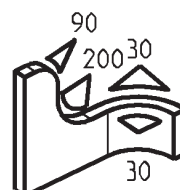
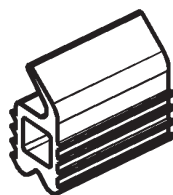
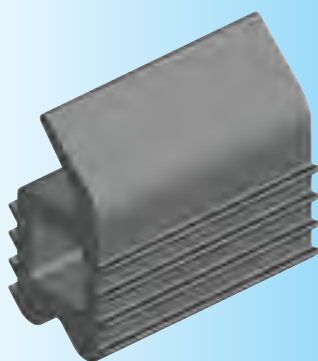
1003-14-N - 1003-24-N



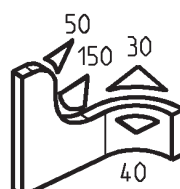
4 lip gasket, sponge-rubber, black EPDM 25° Shore

AH	Height H		AH	Height H	
16	18,5	1003-11-N*	22	24,5	1003-15-N*
18	20,5	1003-12-N*	24	26,5	1003-24-N*
20	22,5	1003-13-N*	26	28,5	1003-14-N*

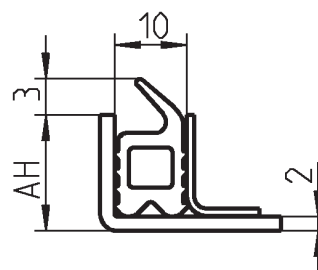
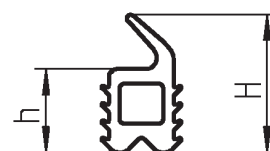
Lip gasket



1003-01



1003-02 - 1003-04



Attention!
This type has been technically superseded by the
gasket shown above this drawing!

*
UL 50
UL 94-HB

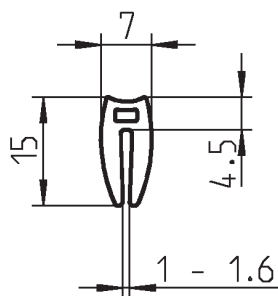
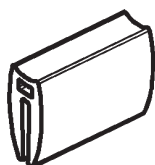
Lip gasket CR/EPDM 55° Shore A black

AH	H	h	Number of chambers		AH	H	h	Number of chambers	
16	17	9,5	1	1003-04	20	21	13,5	2	1003-02
18	19	11,5	1	1003-03	26	27	19,5	3	1003-01

Gasketing

PROGRAM 1003, 1038

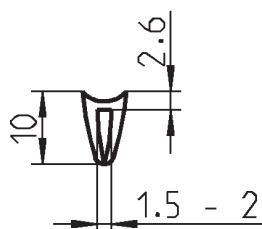
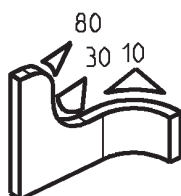
c **RU** [®] US *



Gasket, black EPDM 55° Shore A

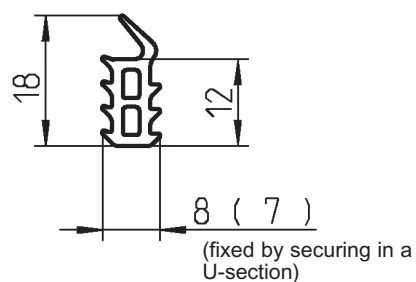
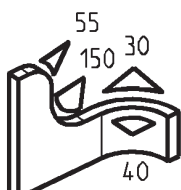
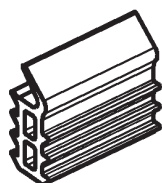
1038-02*

c **RU** [®] US *



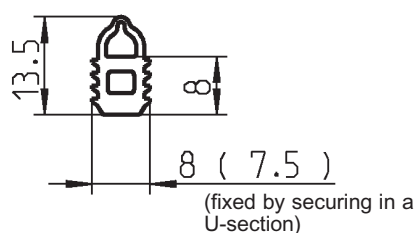
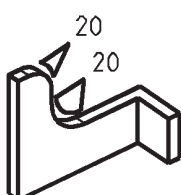
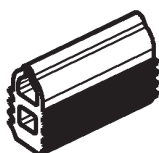
Gasket, black EPDM 55° Shore A

1038-06*



Gasket, black EPDM 55° Shore A

1003-07



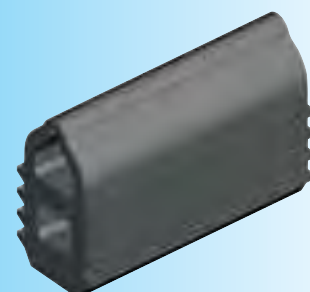
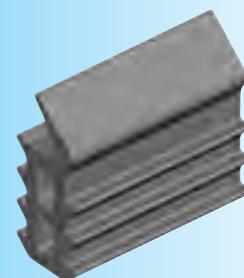
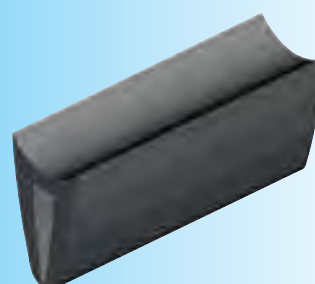
Gasket, black EPDM 55° Shore A

1038-01

EMKA

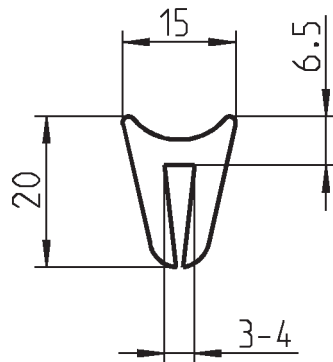
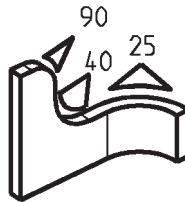
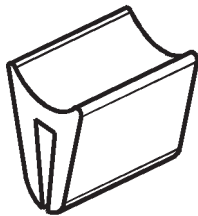
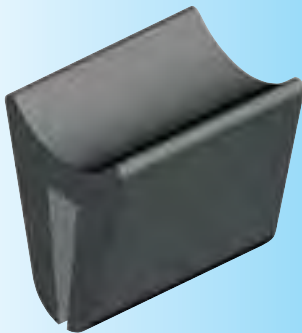
Beschlagteile

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Gasketing



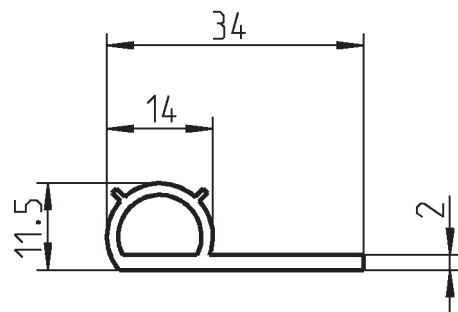
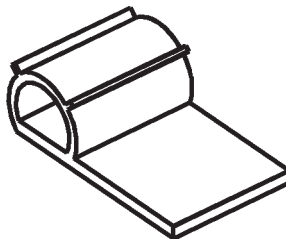
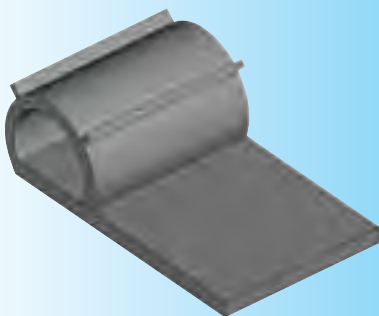
* **c [®] RU US**
UL 50

5A-140



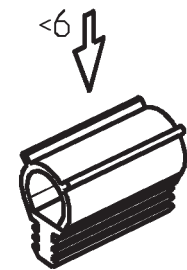
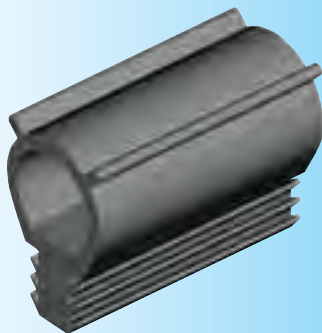
Gasket, black EPDM 55° Shore A

1038-07

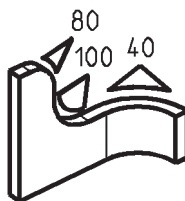


Gasket, black EPDM 55° Shore A

1038-10

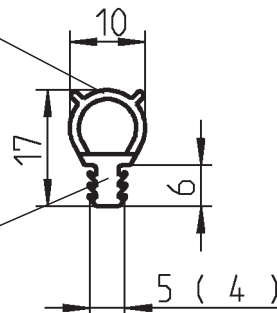


compression



20° Shore A

55° Shore A



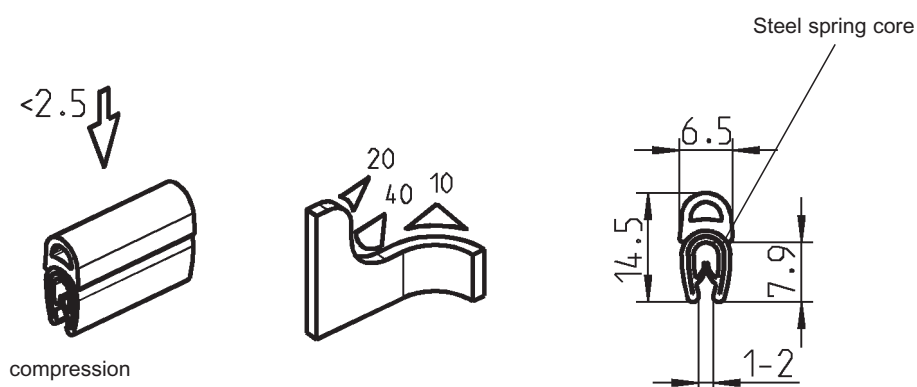
(fixed by securing in a U-section)

Gasket, black EPDM

1101-03

Self-gripping gasketing

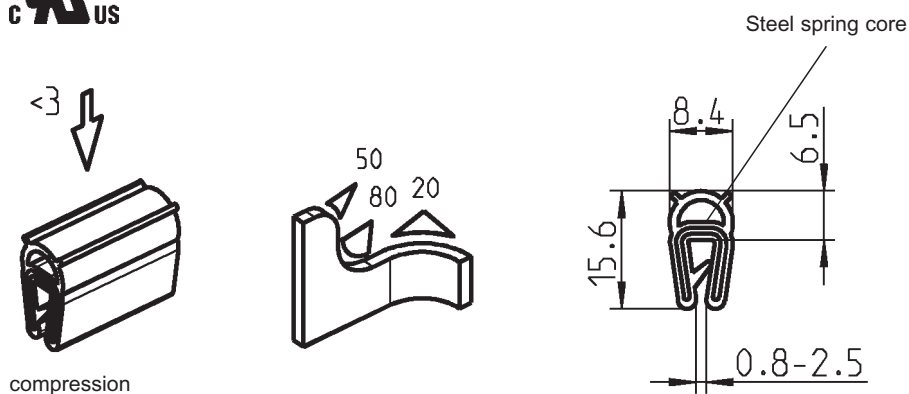
PROGRAM 1011



Gasket PVC / sponge-rubber (EPDM) black

1011-24

c **UL** [®] **US** *



Material for gasket depends upon choice

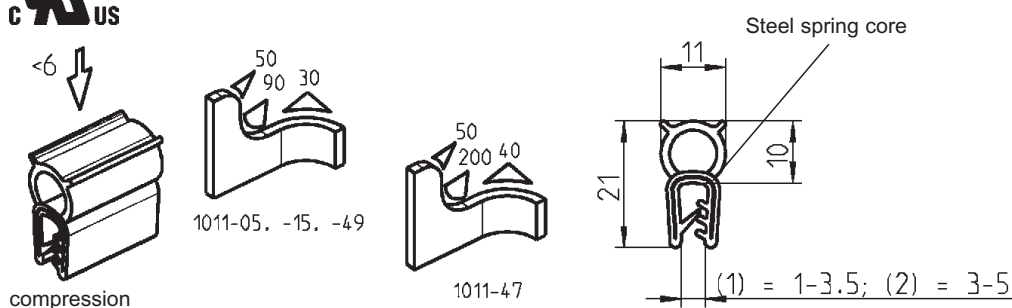
EPDM $65^\circ \pm 5$ Shore / sponge-rubber (EPDM) black

1011-10*

NBR $60^\circ \pm 5$ Shore A black

1011-50

c **UL** [®] **US** *



Material for gasket depends upon choice

EPDM $65^\circ \pm 5$ Shore / sponge-rubber (EPDM) black

(1) 1011-05*

NBR $60^\circ \pm 5$ Shore A black

(1) 1011-15

EPDM $65^\circ \pm 5$ Shore / sponge-rubber (EPDM) black

(2) 1011-49

NBR $60^\circ \pm 5$ Shore A black

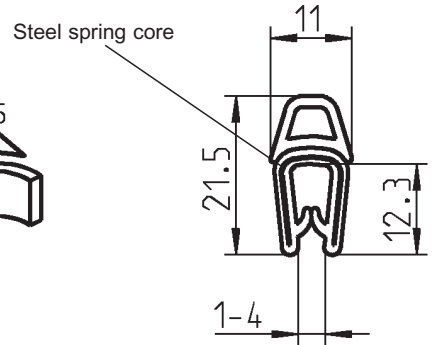
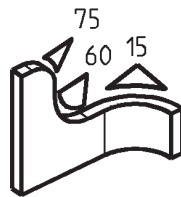
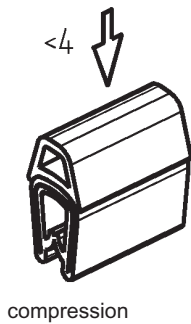
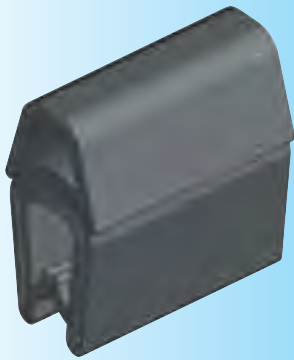
(2) 1011-47

* **c [®] UL US**
UL 50
UL 94-HB

5A-220

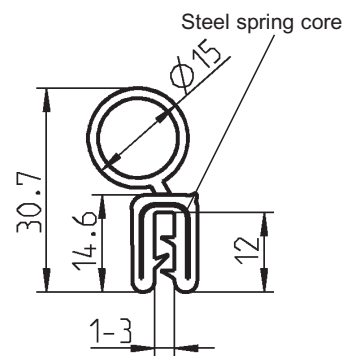
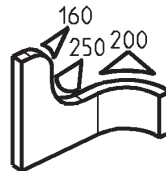
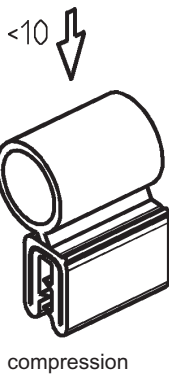
Self-gripping gasketing

PROGRAM 1011



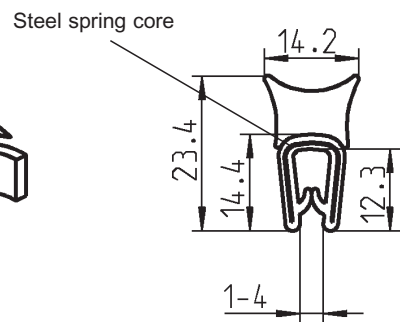
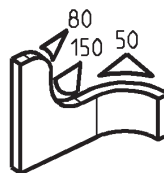
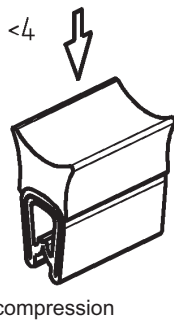
Gasket PVC / sponge-rubber (EPDM) black

1011-18



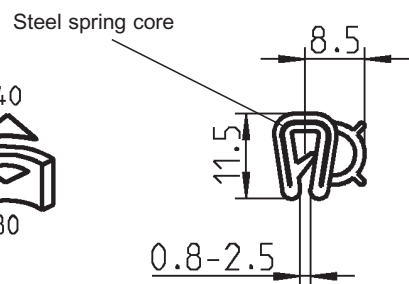
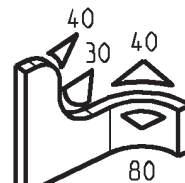
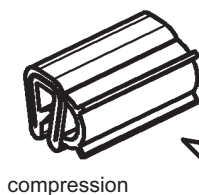
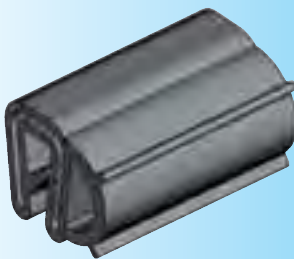
Gasket EPDM 60° ± 5 Shore A black

1011-34



Gasket PVC / sponge-rubber (EPDM) black

1011-21

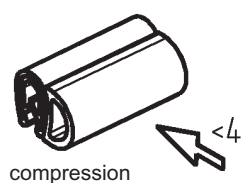


Gasket PVC, EPDM 65° ± 5 Shore A / sponge-rubber (EPDM) black

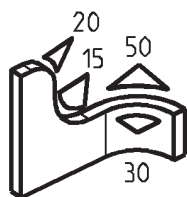
1011-09*

Self-gripping gasketing

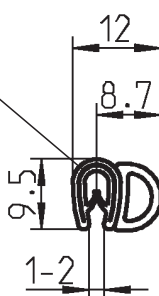
PROGRAM 1011



compression



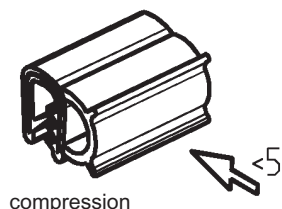
Steel spring core



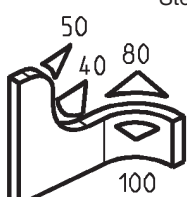
Gasket PVC / sponge-rubber (EPDM) black

1011-20

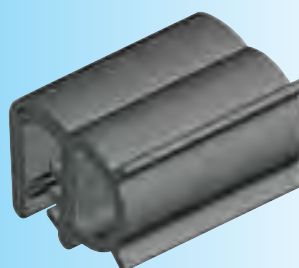
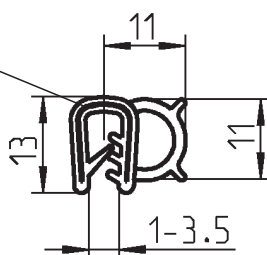
c **RU** ^{*} **US**



compression



Steel spring core



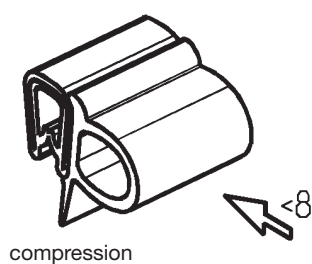
Material for gasketing on choice

EPDM 65° ± 5 Shore / sponge-rubber (EPDM) black

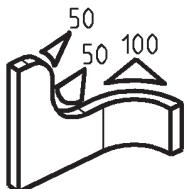
1011-06*

NBR 60° ± 5 Shore A black

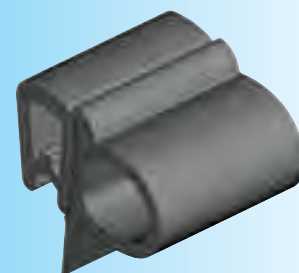
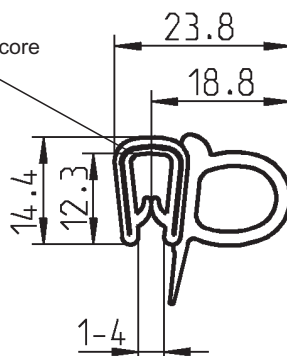
1011-16



compression

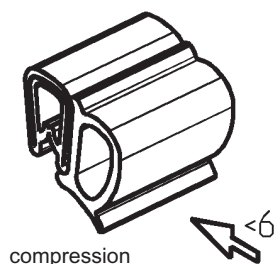


Steel spring core

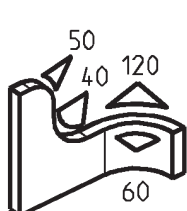


Gasket PVC / sponge-rubber (EPDM) black

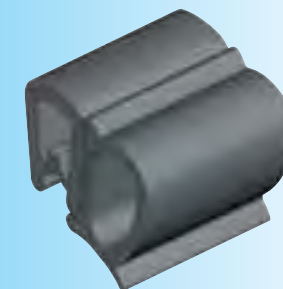
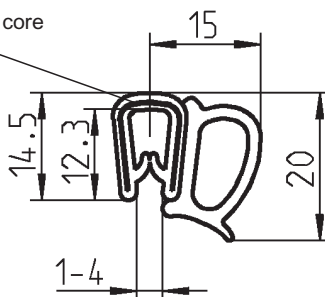
1011-25



compression



Steel spring core

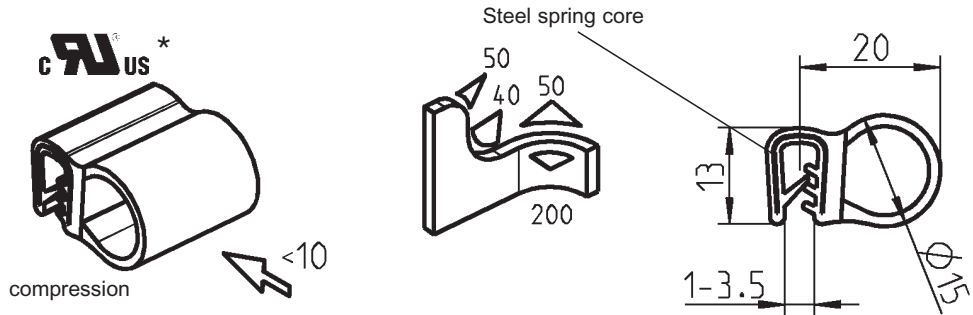


^{*} **c **RU** **US****
UL 50
UL 94-HB

Gasket PVC / sponge-rubber (EPDM) black

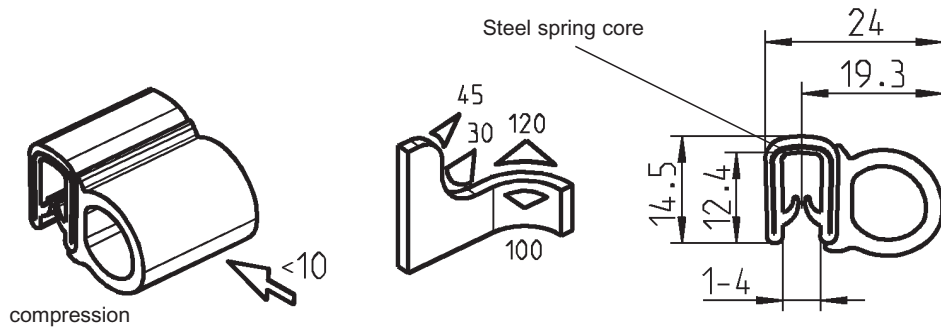
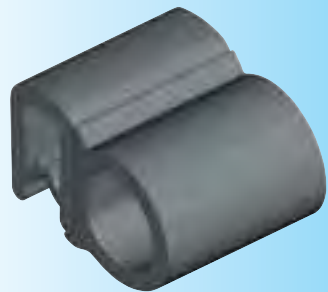
1011-23

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Gasketing



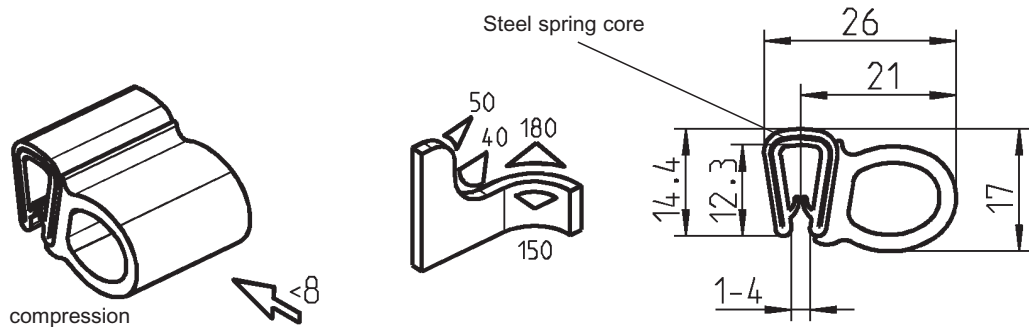
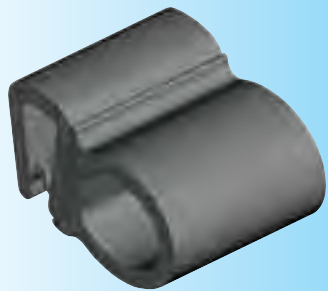
Gasket PVC, EPDM 65° ± 5 Shore A / sponge-rubber EPDM black

1011-12*



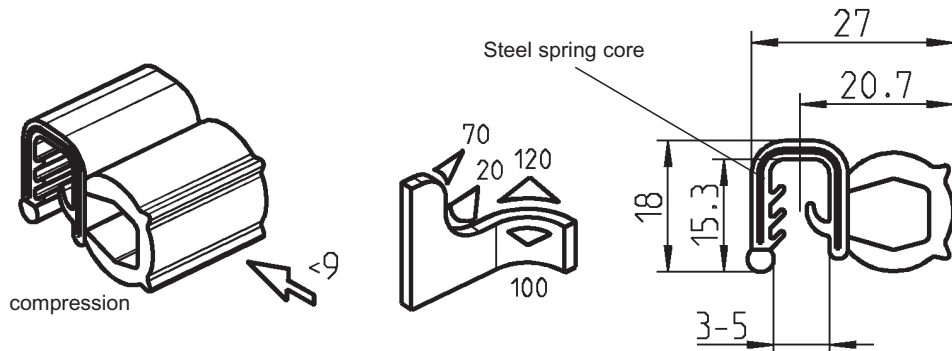
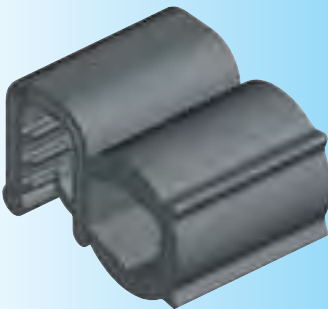
Gasket PVC / sponge-rubber (EPDM) black

1011-19



Gasket PVC / sponge-rubber (EPDM) black

1011-22



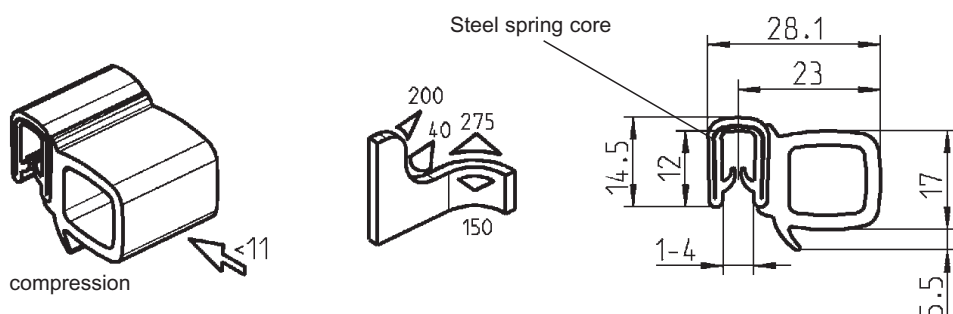
Gasket PVC, EPDM 65° ± 5 Shore A / sponge-rubber EPDM black

1011-45

* **UL** **US**
UL 50
UL 94-HB

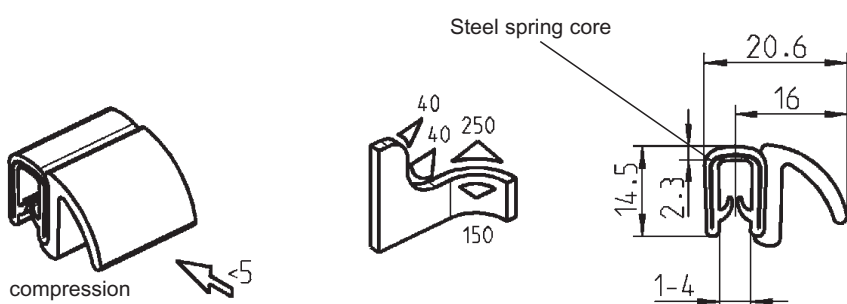
Self-gripping gasketing

PROGRAM 1011



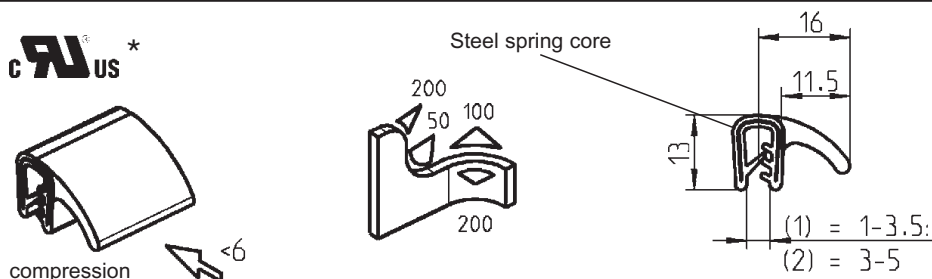
Gasket PVC / sponge-rubber (EPDM) black

1011-26



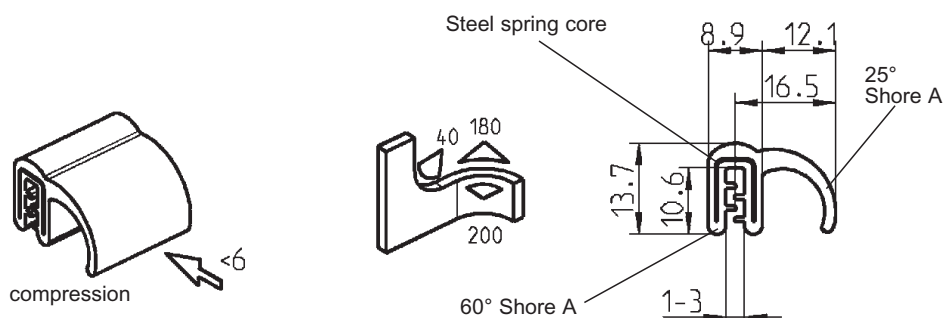
Gasket PVC / sponge-rubber (EPDM) black

1011-17



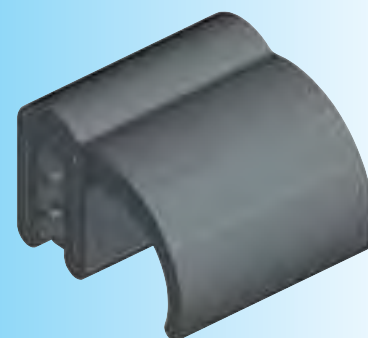
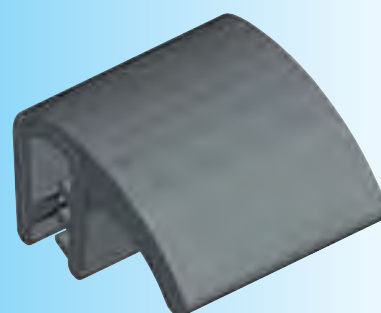
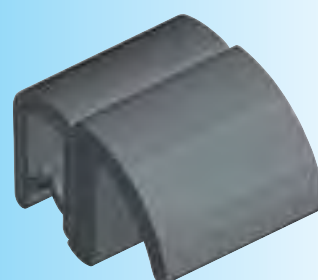
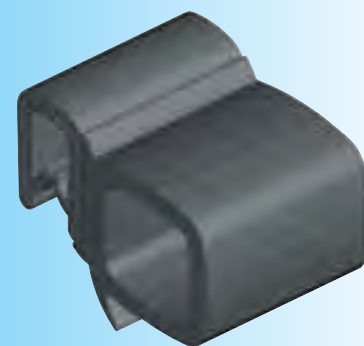
Material for gasketing depends upon choice

EPDM 65° ± 5 Shore / sponge-rubber (EPDM) black	(1)	1011-08*
NBR 60° ± 5 Shore A black	(1)	1011-46
NBR 60° ± 5 Shore A black	(2)	1011-48



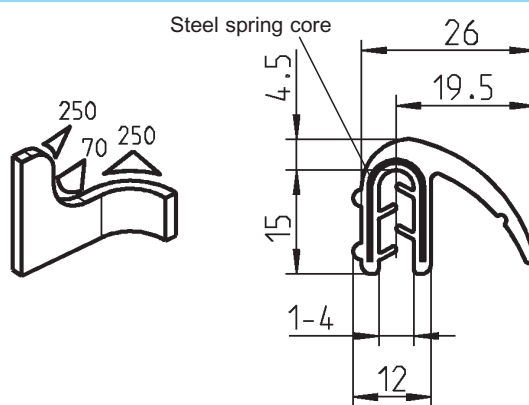
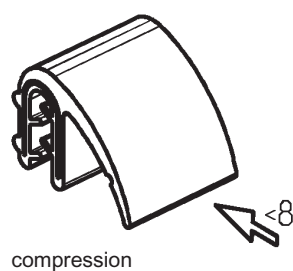
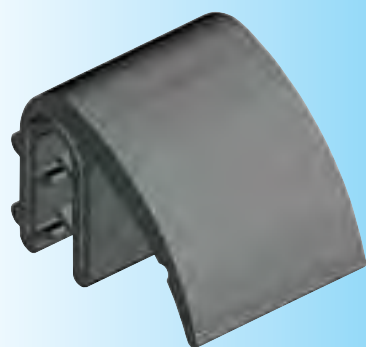
Gasket PVC, EPDM 60° ± 5 Shore A / sponge-rubber (EPDM) 25° Shore A black

1011-41



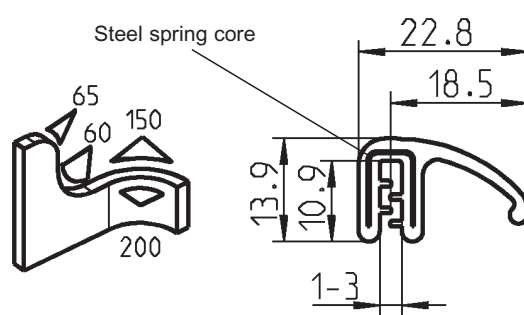
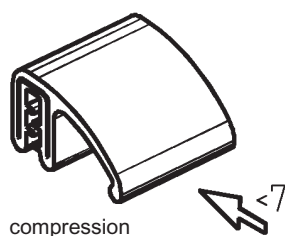
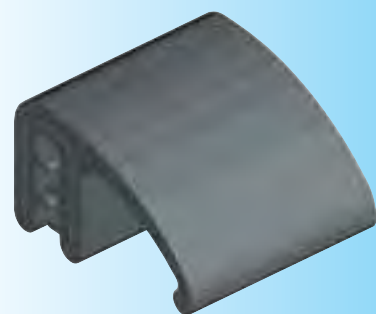
* **UL US**
UL 50
UL 94-HB

Self-gripping gasketing PROGRAM 1011



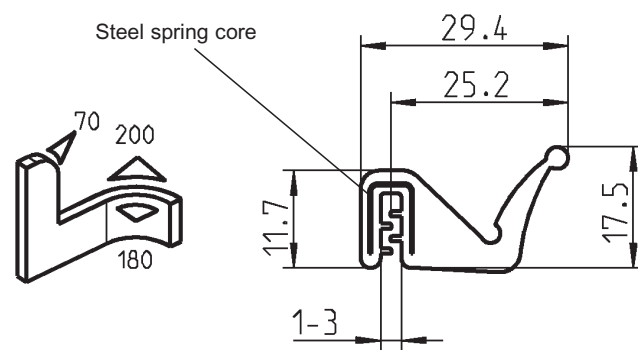
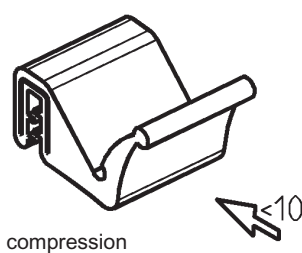
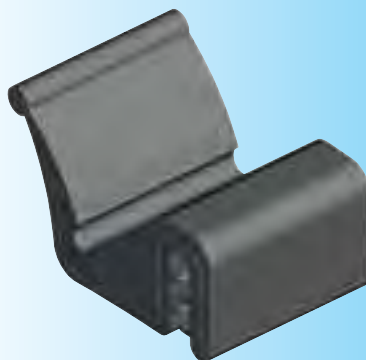
Gasket EPDM 60° ± 5 Shore A black

1011-40



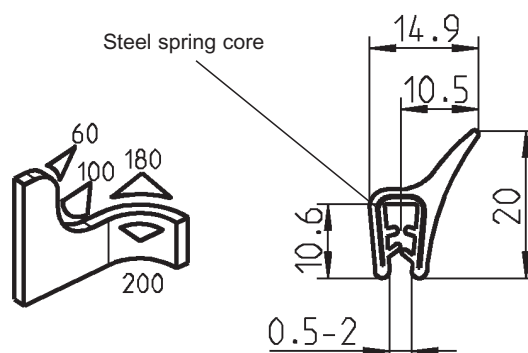
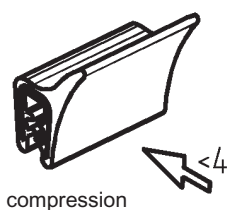
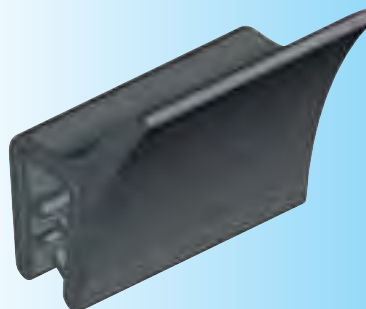
Gasket EPDM 60° ± 5 Shore A black

1011-33



Gasket EPDM 60° ± 5 Shore A black

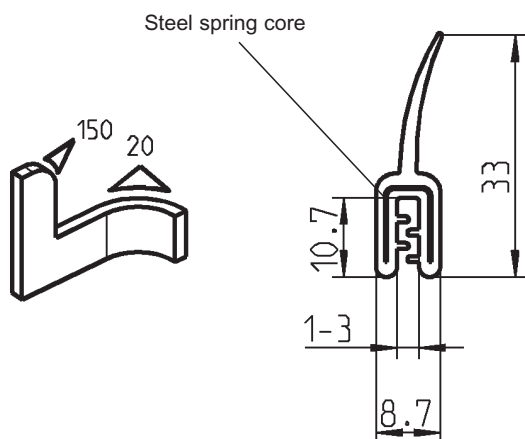
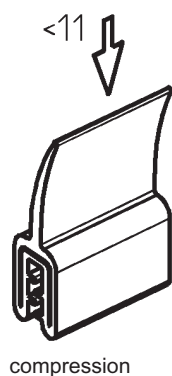
1011-35



Gasket EPDM 60° ± 5 Shore A black

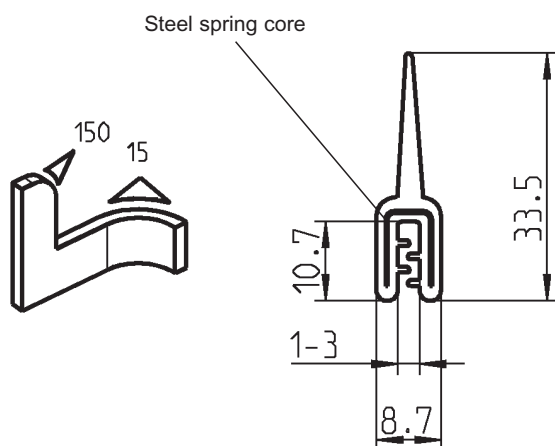
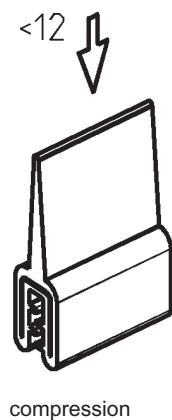
1011-44

Self-gripping gasketing PROGRAM 1011



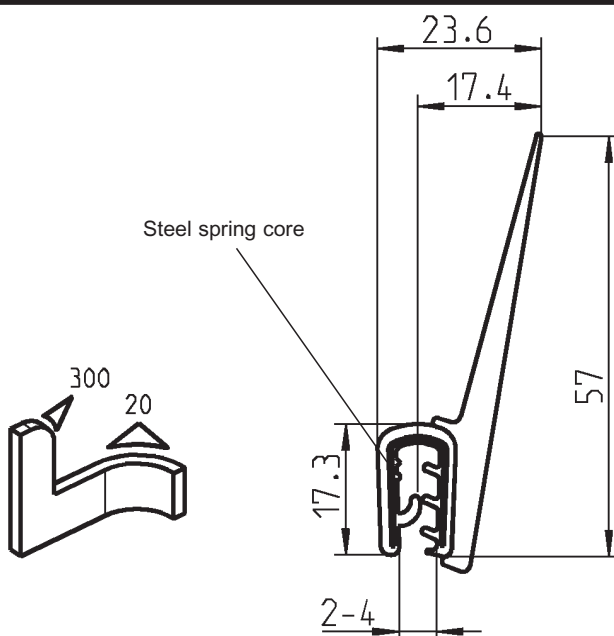
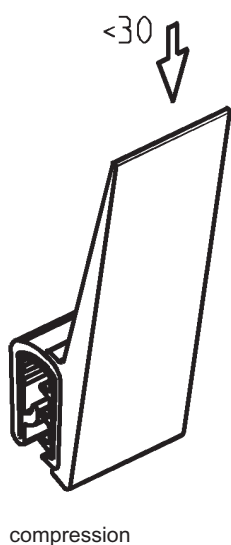
Gasket EPDM 60° ± 5 Shore A black

1011-30



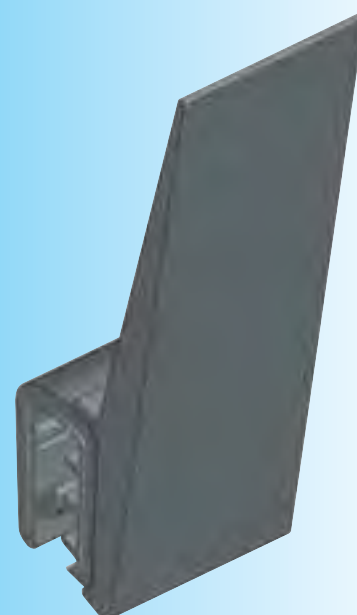
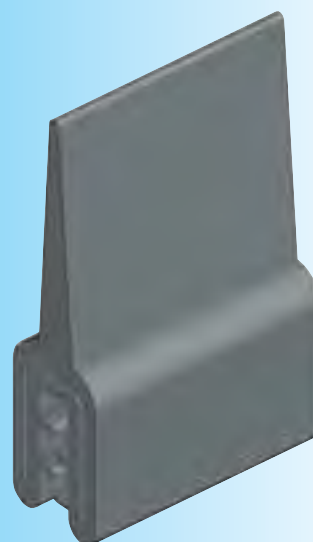
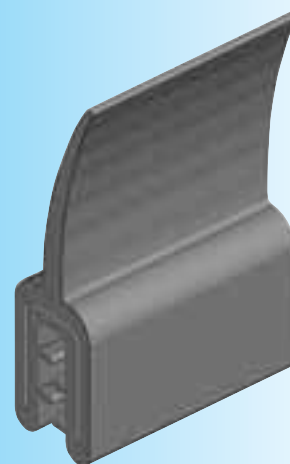
Gasket EPDM 60° ± 5 Shore A black

1011-36



Gasket PVC / sponge-rubber (EPDM) black

1011-27



Self-gripping gasketing PROGRAM 1011

Beschlagteile

Info

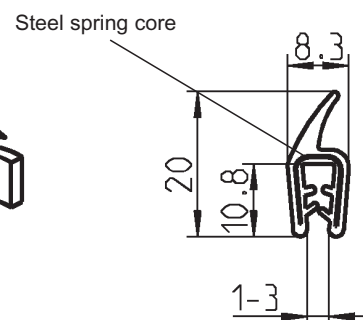
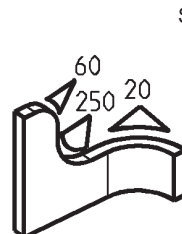
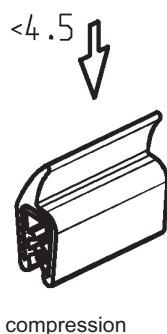
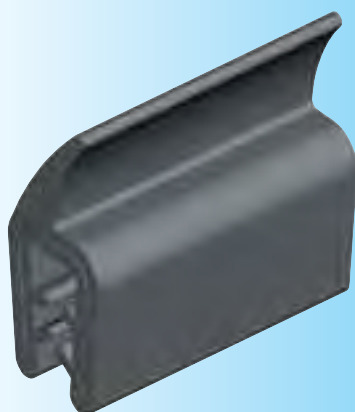
1 Quarter turns

2 Rod controls

3 Locking systems

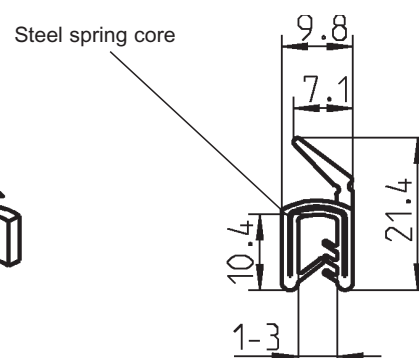
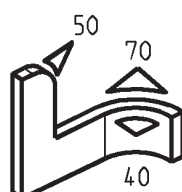
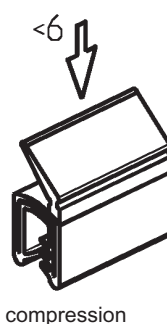
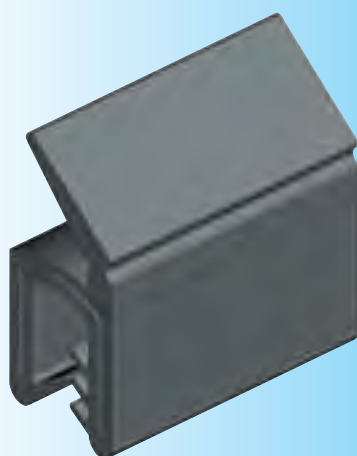
4 Hinges

5 Gasketing



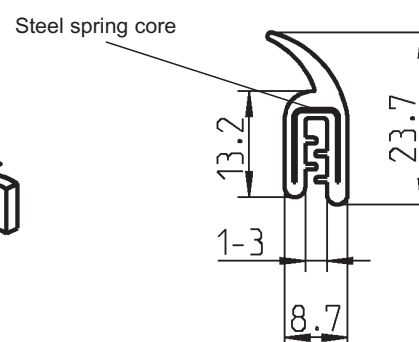
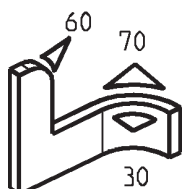
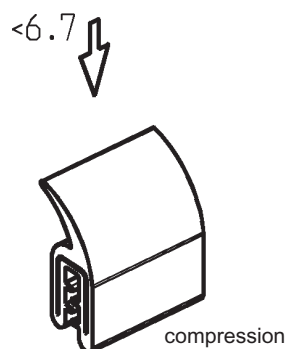
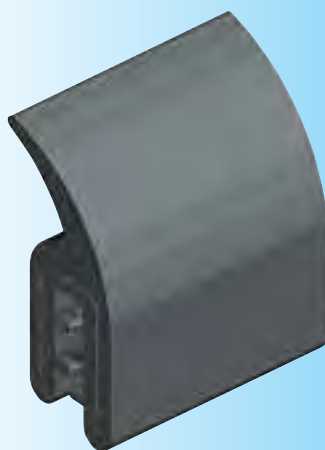
Gasket EPDM 60° ± 5 Shore A black

1011-31



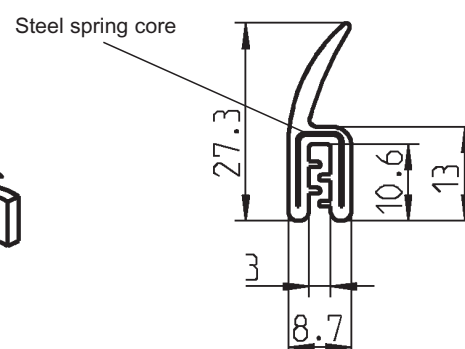
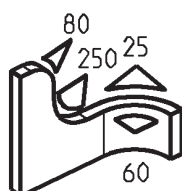
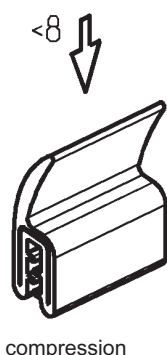
Gasket PVC, EPDM 60° ± 5 Shore A / sponge-rubber (EPDM) black

1011-37



Gasket EPDM 60° ± 5 Shore A black

1011-29



Gasket EPDM 60° ± 5 Shore A black

1011-32

Cell sponge rubber

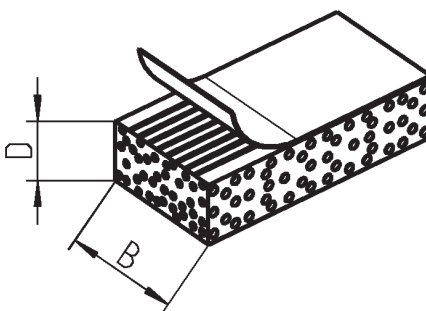
PROGRAM 1016

Cell sponge rubber, black, with stretch eliminating self-adhesive backing.
Coil length:

For depths 3 – 7= the coil length is 10 m

For depths 8 – 10= the coil length is 5 m

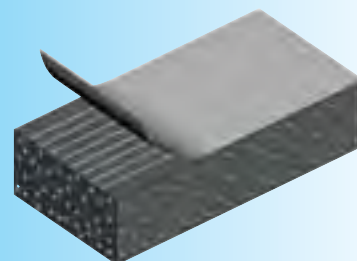
For depths 11= the coil length is 1 m

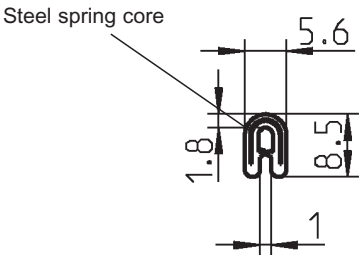
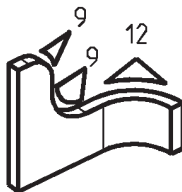
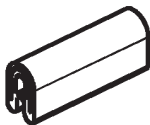
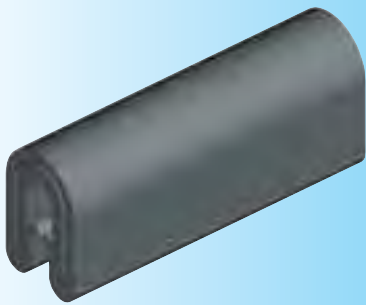


These items can be delivered from stock.

All others will have a lead time of 5 weeks, minimum quantity upon request.

Measurement				Measurement			
Wide	Depth	EPDM	CR	Wide	Depth	EPDM	CR
10	3	1016-13	1016-61	30	10	1016-123	1016-159
	4	1016-14	1016-62		12	1016-124	1016-160
	5	1016-15	1016-63		15	1016-125	1016-161
	6	1016-75	1016-99		20	1016-126	1016-162
	8	1016-76	1016-100		25	1016-127	1016-163
15	10	1016-77	1016-101	40	5	1016-128	1016-164
	3	1016-16	1016-64		10	1016-129	1016-165
	4	1016-17	1016-65		15	1016-130	1016-166
	5	1016-18	1016-66		20	1016-131	1016-167
	6	1016-78	1016-102		25	1016-132	1016-168
	8	1016-79	1016-103		30	1016-133	1016-169
	10	1016-80	1016-104		5	1016-134	1016-170
	12	1016-81	1016-105		10	1016-135	1016-171
	15	1016-82	1016-106		15	1016-136	1016-172
	3	1016-19	1016-67		20	1016-137	1016-173
20	4	1016-20	1016-68		25	1016-138	1016-174
	5	1016-21	1016-69		30	1016-139	1016-175
	6	1016-83	1016-107		5	1016-140	1016-176
	8	1016-84	1016-108		10	1016-141	1016-177
	10	1016-85	1016-109		15	1016-142	1016-178
	12	1016-86	1016-110		20	1016-143	1016-179
	15	1016-87	1016-111		25	1016-144	1016-180
	20	1016-88	1016-112		30	1016-145	1016-181
	3	1016-89	1016-113		5	1016-146	1016-182
	4	1016-90	1016-114		10	1016-147	1016-183
25	6	1016-91	1016-115		15	1016-148	1016-184
	8	1016-92	1016-116		20	1016-149	1016-185
	10	1016-93	1016-117		25	1016-150	1016-186
	12	1016-94	1016-118		30	1016-151	1016-187
	15	1016-95	1016-119		5	1016-152	1016-188
	20	1016-96	1016-120		10	1016-153	1016-189
	3	1016-22	1016-70		15	1016-154	1016-190
	4	1016-23	1016-71		20	1016-155	1016-191
	5	1016-24	1016-72		25	1016-156	1016-192
	6	1016-97	1016-121		30	1016-157	1016-193
30	8	1016-98	1016-122		40	1016-158	1016-194

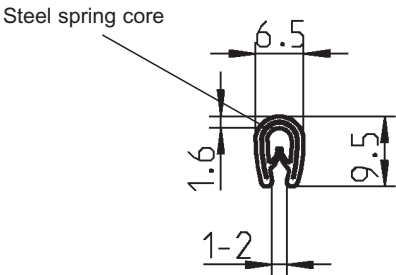
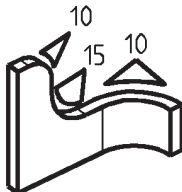
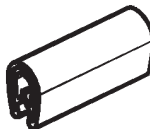
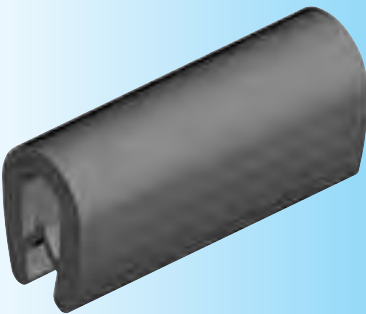




Edge-protection

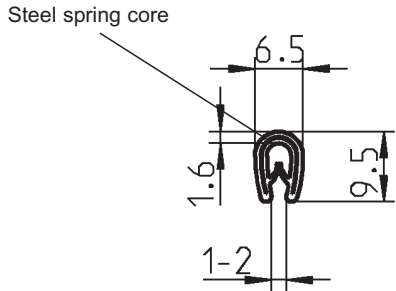
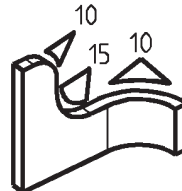
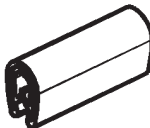
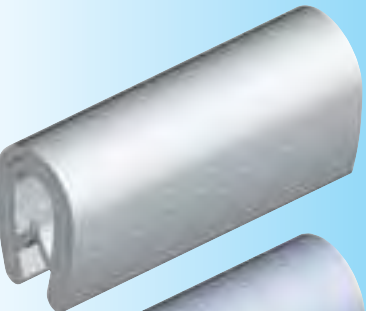
PVC black	1010-03
PVC grey	1010-03-01

Heat resistant up to 100 °C



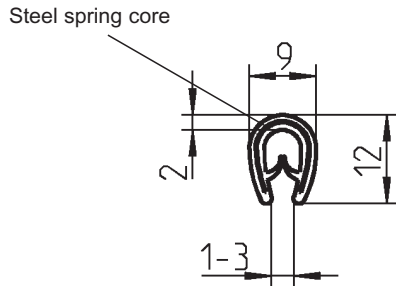
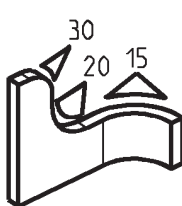
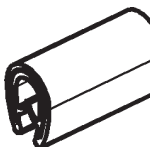
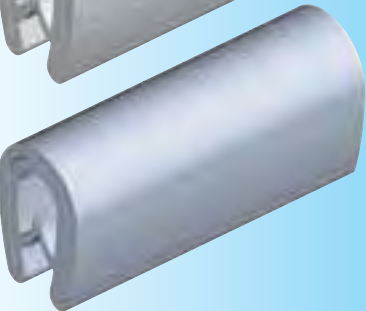
Edge-protection PVC black

1010-02



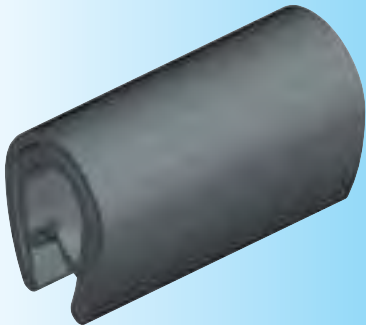
Edge-protection

PVC light-grey	1010-04-01
PVC silver	1010-04-02

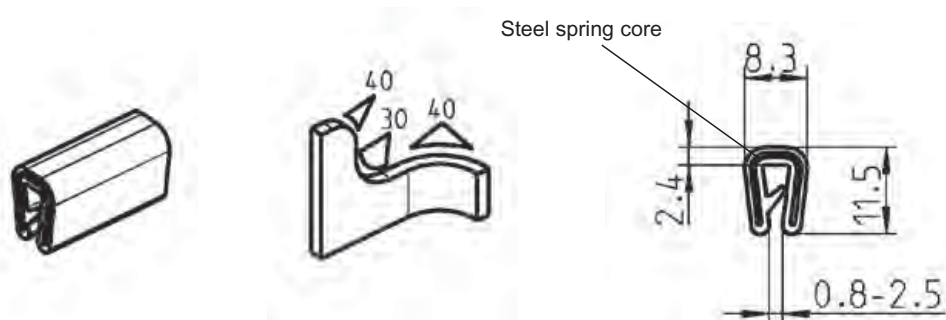


Edge-protection PVC black

1010-10

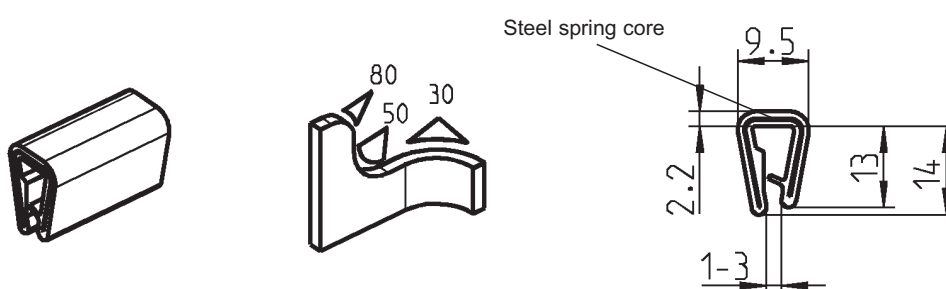
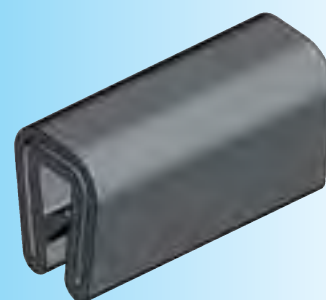


Edge-protection PROGRAM 1010



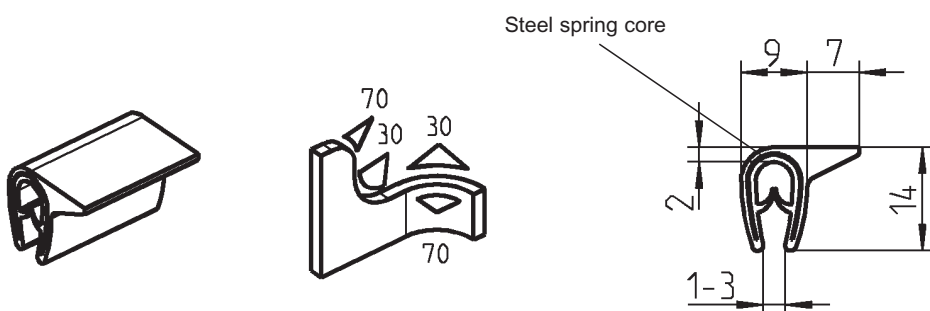
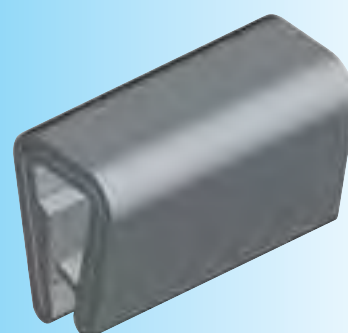
Edge-protection PVC (EPDM 60° ± 5 Shore A) black

1010-12



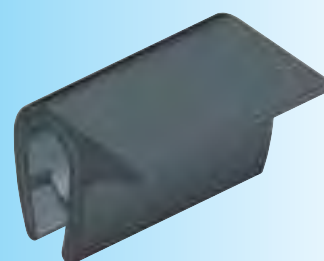
Edge-protection PVC grey

1010-05

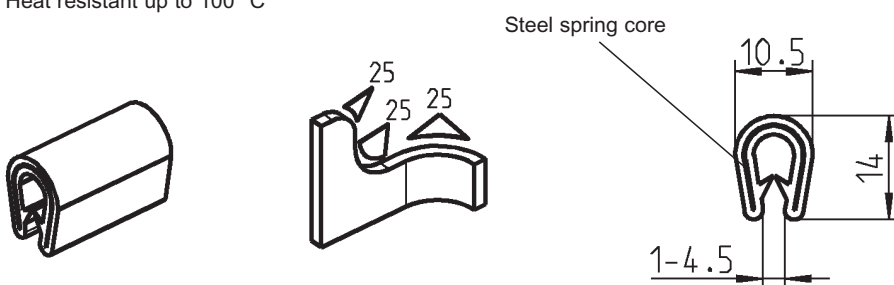


Edge-protection PVC charcoal

1010-09

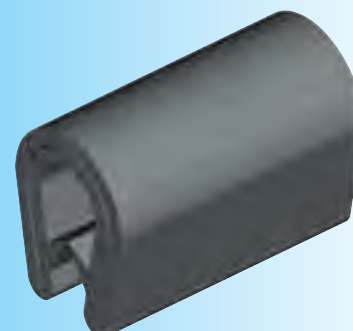


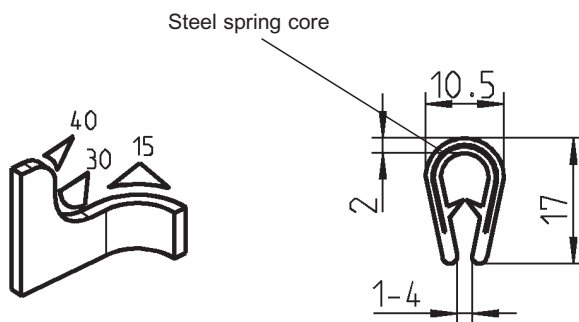
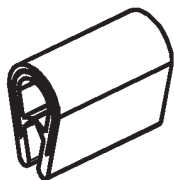
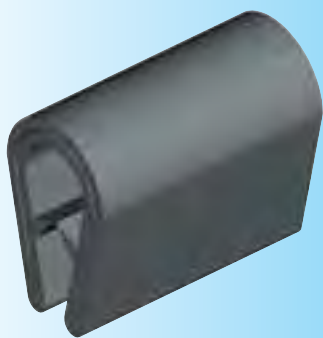
Heat resistant up to 100 °C



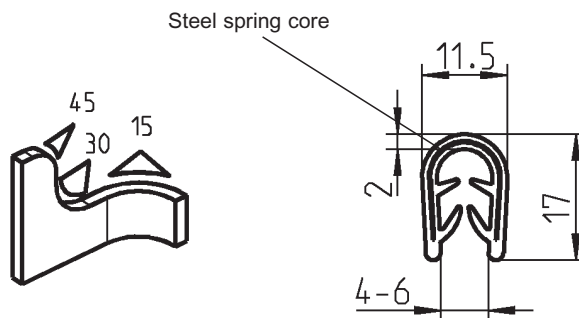
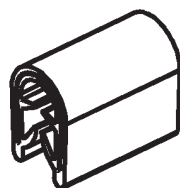
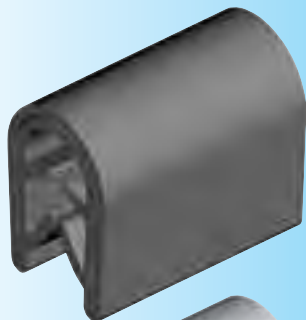
Edge-protection PVC black

1010-01

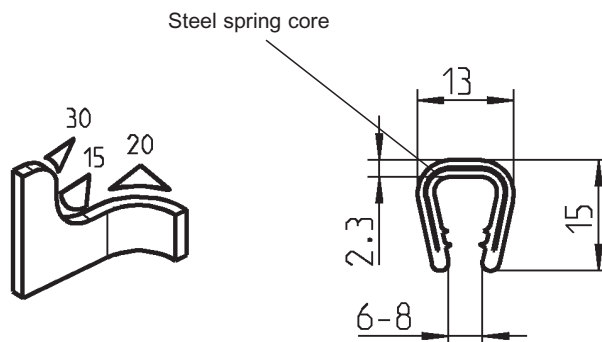
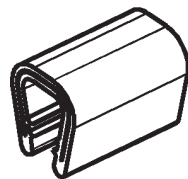
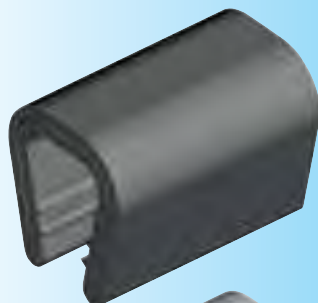




Edge-protection PVC black	
	1010-08



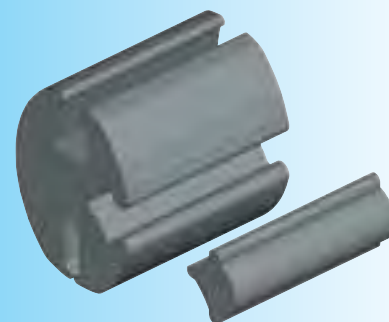
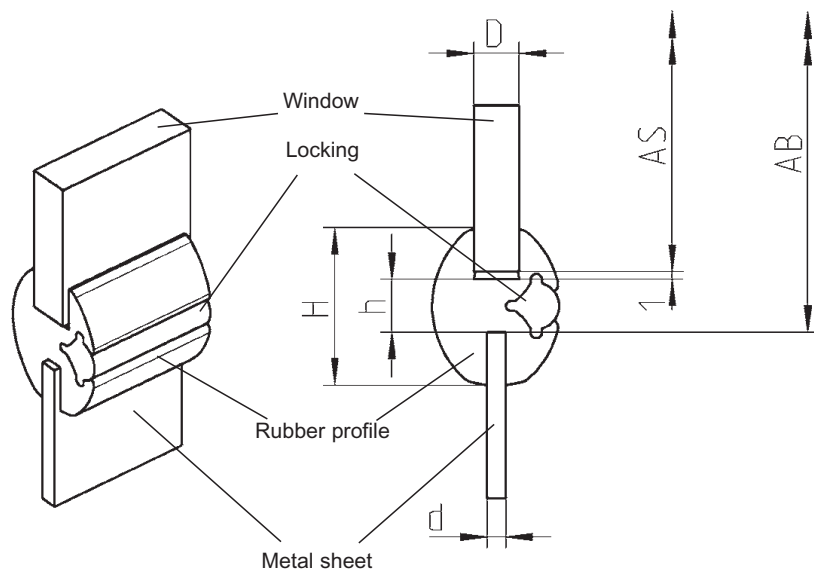
Edge-protection	
PVC black	1010-11
PVC light-grey	1010-11-01



Edge-protection	
PVC black	1010-06
PVC light-grey	1010-06-01

Window-rubber with locking strip

PROGRAM 1030



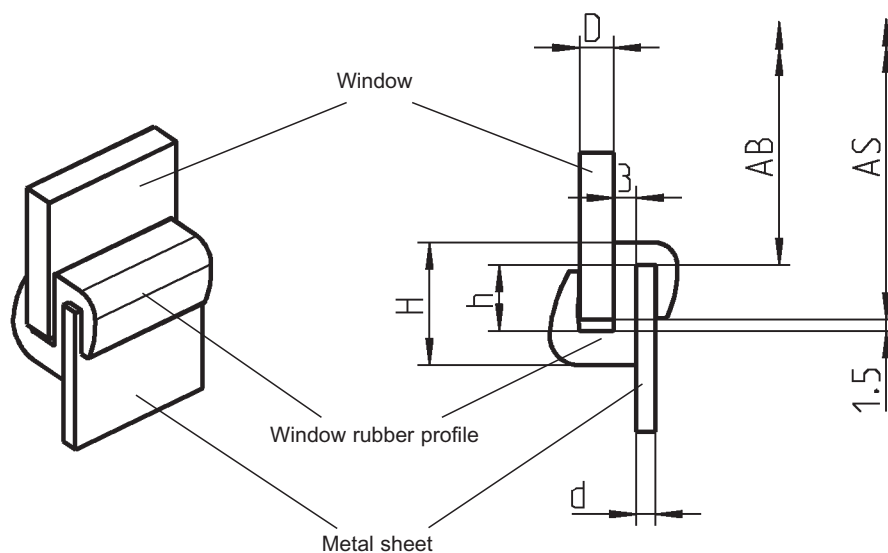
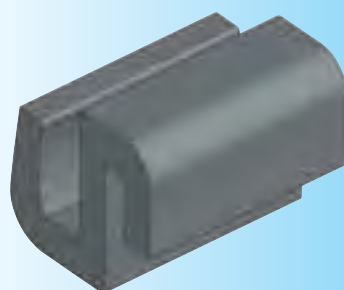
AS = dimension of the window
AB = dimension of the cut out

Rubber profile, black EPDM 75° + 5 Shore
with locking strip, black, EPDM 85 + 5 Shore

D	D	H	h	Bending radius	AB in mm	Rubber profile	+	Locking strip
4	2	15	4	>30	AS+10	1030-01	+	1030-04
4	2,5	21	7	>70	AS+16	1030-02	+	1030-05
6	2,5	21	7	>70	AS+16	1030-03	+	1030-05
5	2	17	5	>50	AS+12	1030-07	+	1030-10

2 tools for installation for window and locking strip

1030-U1

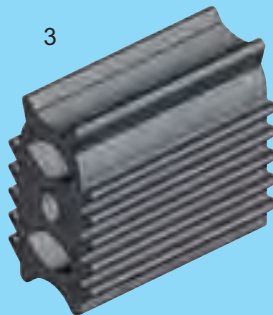


$AB + 14,5 \text{ mm} = AS$
 AS = dimension of the window
 AS = dimension of the window
 AB = dimension of the cut out

Window rubber profile

	D	d	H	h	Bending radius	Window rubber profile
EPDM black 60° Shore A	4	2	16,2	8,7	≥ 40	1074-01
NBR 80° Shore A	4	2	16,2	8,7	≥ 40	1074-03
EPDM black 60° Shore A	6	2	16,2	8,7	≥ 40	1074-02
NBR 80° Shore A	6	2	16,2	8,7	≥ 40	1074-04

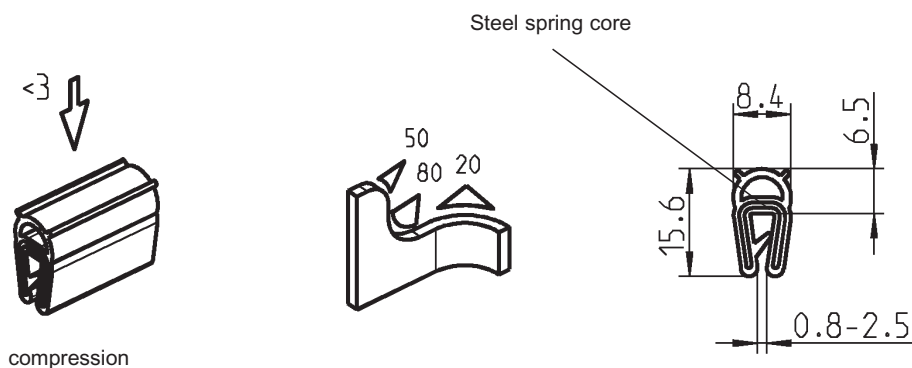
Gasketing According to VDI 6022



- | | | |
|---|----------------------------------|----------------|
| 1 | Self - gripping gasketing | 5B-120 |
| 2 | Self - gripping gasketing | 5B-120, 5B-140 |
| 3 | Gasketing secured in a U-section | 5B-140 |

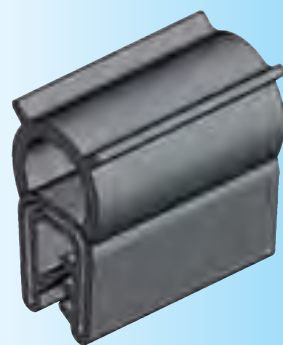
5B-100

According to VDI 6022

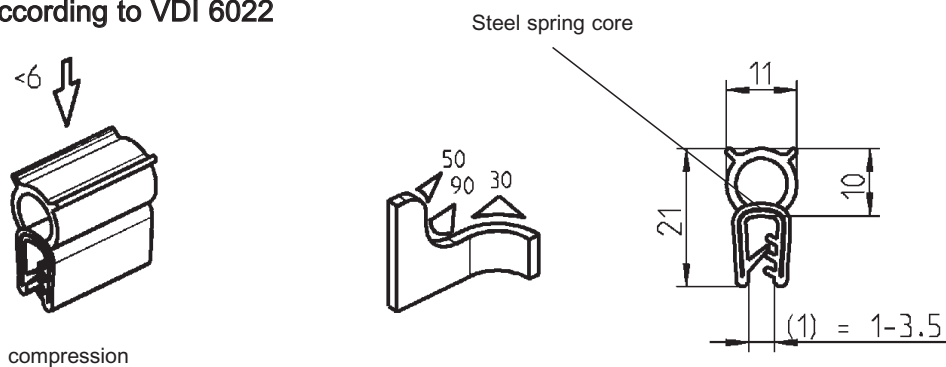


Hollow section (EPDM) black $45^\circ \pm 5$ Shore A
Clamping profile (EPDM) black $60^\circ \pm 5$ Shore A

1011-10-09

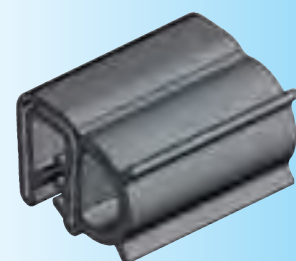


According to VDI 6022

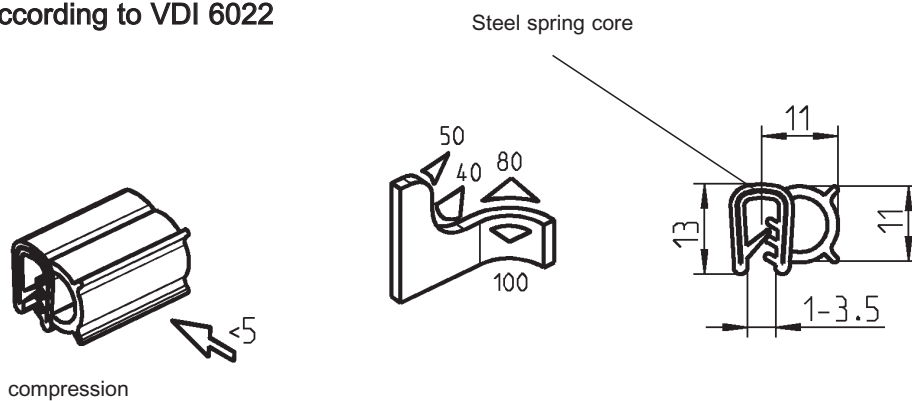


Hollow section (EPDM) black $45^\circ \pm 5$ Shore A
Clamping profile (EPDM) black $60^\circ \pm 5$ Shore A

1011-05-09



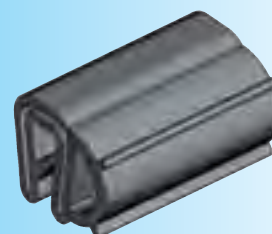
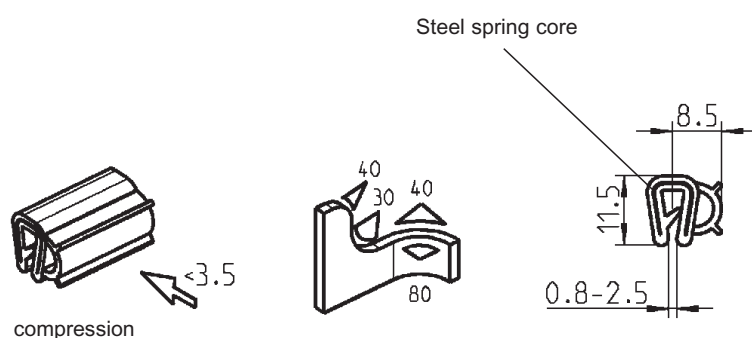
According to VDI 6022



Hollow section (EPDM) black $45^\circ \pm 5$ Shore A
Clamping profile (EPDM) black $60^\circ \pm 5$ Shore A

1011-06-09

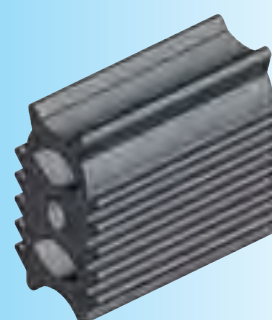
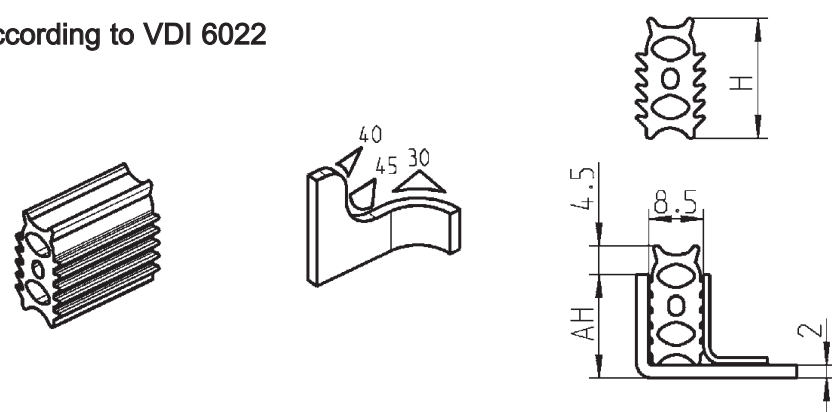
According to VDI 6022



Hollow section (EPDM) black $45^\circ \pm 5$ Shore A
Clamping profile (EPDM) black $60^\circ \pm 5$ Shore A

1011-09-09

According to VDI 6022



4 lip gasket (EPDM) black 35° Shore A

AH	Hight H	
16	18,5	1003-11-N9
18	20,5	1003-12-N9

Information on VDI Guideline 6022:

Hygienic standards for ventilation and air-conditioning systems

In guideline 6022 issued by "Verein Deutscher Ingenieure" (VDI) – Association of German Engineers – you can find a description of the minimum hygienic standards for ventilation and air conditioning systems. The guideline formulates requirements that have to be observed for planning, installation, operation and maintenance of ventilation and airconditioning systems in order to guarantee absolute faultless hygienic condition of the systems as well as the outside air inlets for the air-conditioned premises.

VDI guideline 6022 is valid for the domain of builders, architects, engineers, ventilation planners, manufacturers of air-conditioning systems, machine builders, authorising bodies, operators, service companies, stakeholders of room users (e.g. staff associations or committees as well as company physicians and public health officers).

In line with the latest technical development and scientific knowledge, this guideline is intended to guarantee a precise operation and condition of ventilation and air-conditioning systems by means of preventive technical provisions.

Notes:

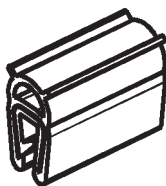


Attention:

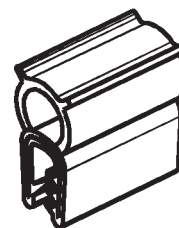
Please provide a contact area for all EMC gasketings. For painted or powder coated cabinets see conductive tape.



EMC gasketing material



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



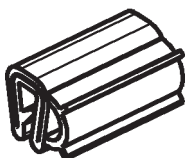
Dimensions
see catalogue page
5A-220
article 1011-05

Soft-sponge rubber / EPDM with conductive overall coating and steel spring core

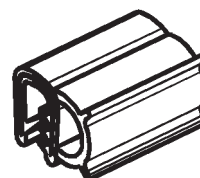
1011-10-E

1011-05-E

EMC gasketing material



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



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

Soft-sponge rubber / EPDM with conductive overall coating and steel spring core

1011-09-E

1011-06-E

EMC conductive tape

- for painting and contact
- highly-conductive adhesive for creating paint-free contact areas
- length 25 metres

Note:

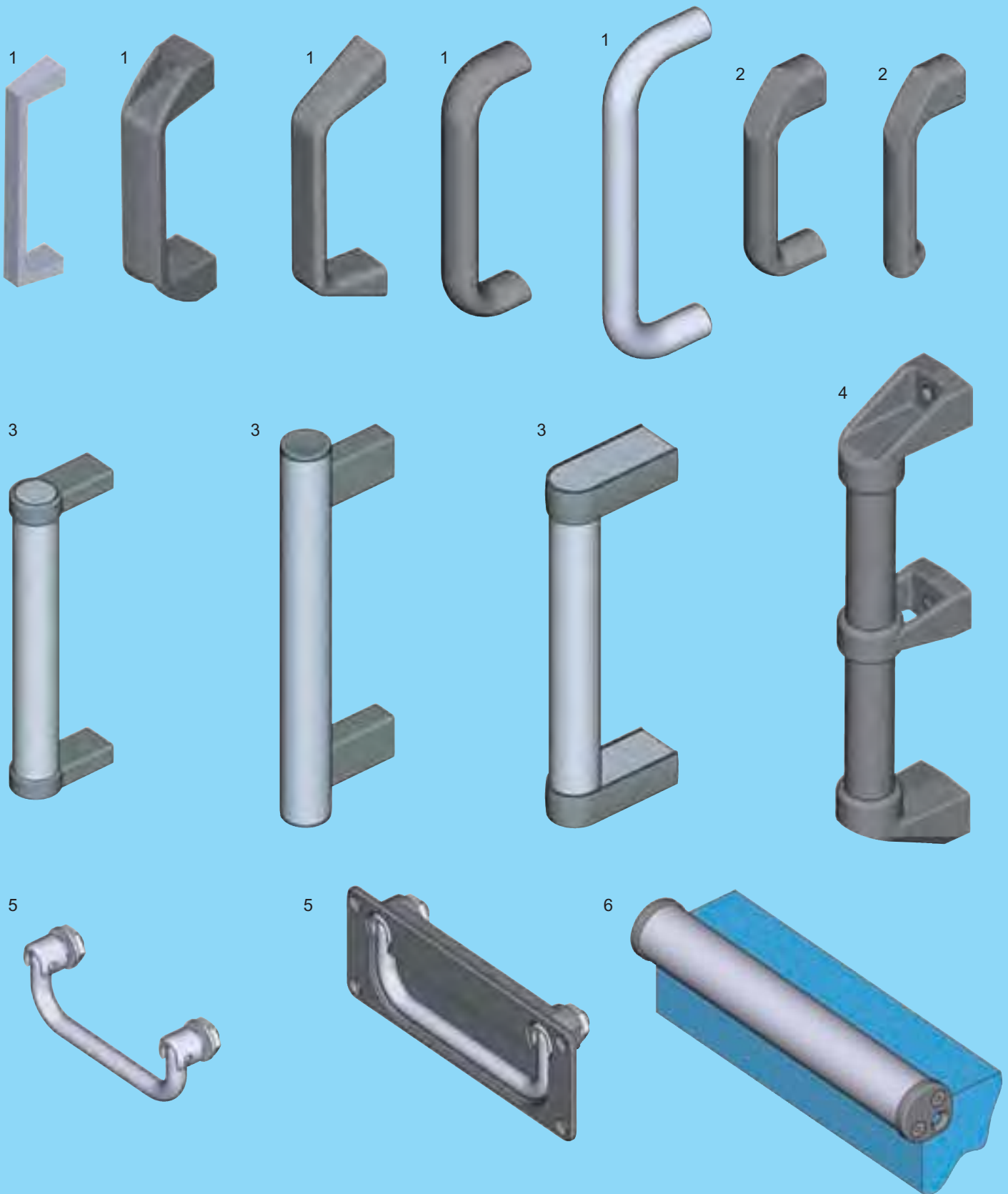
- The area to be adhered to has to be free of grease and dust.
- Remove the release liner from the conductive tape and adhere it to the contact area.
For better adhesion the conductive tape is wider than the mask.
- Afterwards painting or coating is possible, the mask prevents the coating adhering to the conductive tape.
Please note the following instructions for heat treatment of the conductive tape: max. 120°C permanent heat; short term it is possible to be scalded up to 230°C; each time individual testing is necessary.
- After painting or powder coating the mask can be removed easily, the conductive tape is left securely in place.



EMC conductive tape

width of tape (mm)	in combination with EMC gasketing	
12,7	--	
22	1011-09-E; 1011-10-E	1016-220-220E
25,4	1011-05-E; 1011-06-E	1016-220-254E
Further widths on request		

Handle Program 1095



- | | | |
|---|---|---------------------|
| 1 | Bow-type handles in different sizes | 6A-120 up to 6A-180 |
| 2 | Handle | 6A-440 |
| 3 | Tube handle with variable length | 6A-320 up to 6A-360 |
| 4 | Handle with variable length or approximate length | 6A-220, 6A-240 |
| 5 | Hinged pattern handle with variable length | 6A-420 |
| 6 | Edgehandle with variable length | 6A-420 |

6A-100

Info

1 Quarter turns

2 Rod controls

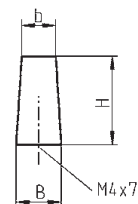
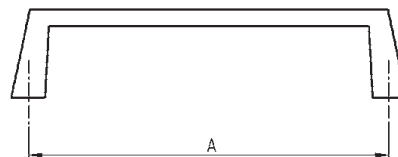
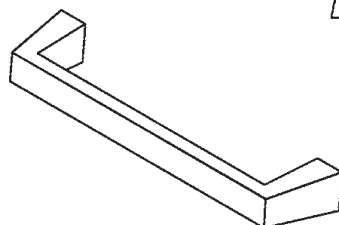
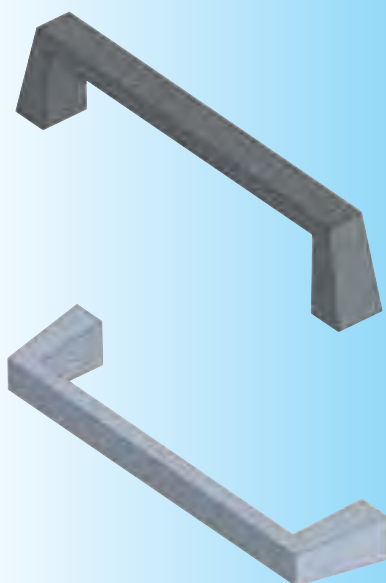
3 Locking systems

4 Hinges

5 Gasketing

6 Handles

Bow-type handle

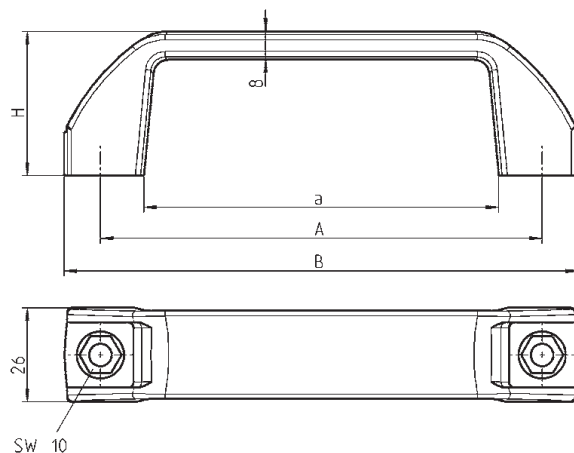
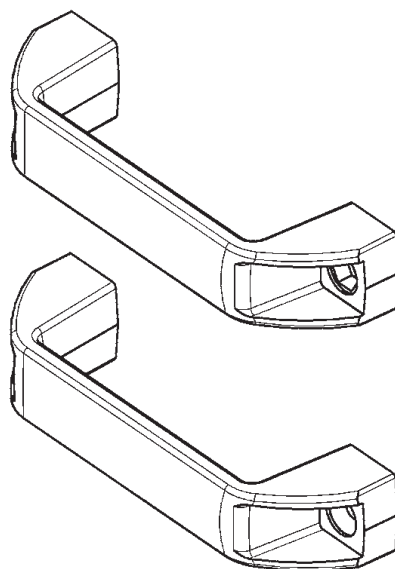
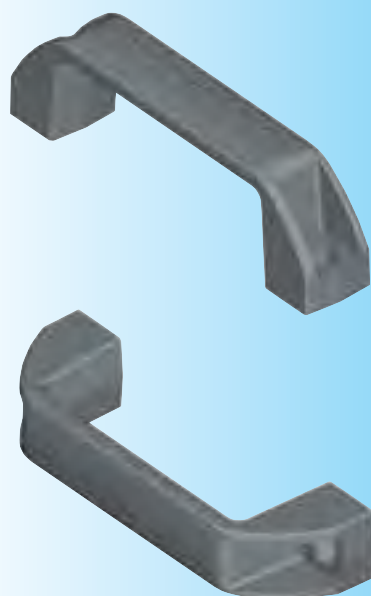


Bow-type handle zinc die

B	b	A	H	chrome plated	black p.c.
11	8	81	22	1045-03	1045-07 *
11	8	89	22	1045-02	1045-06 *
12	9	95,5	24	1045-01	1045-05
12	8,5	115	23	1045-04	1045-08 *

* = on request

Polyamide handle



Version 1: a = 98; A = 122; B = 142; H = 40
Version 2: a = 118,5; A = 152; B = 167; H = 53,5

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

Fixing material is not included in delivery.

6A-120

(6A-140)

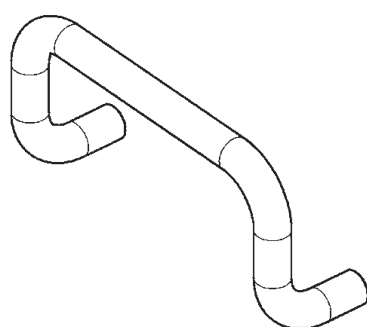
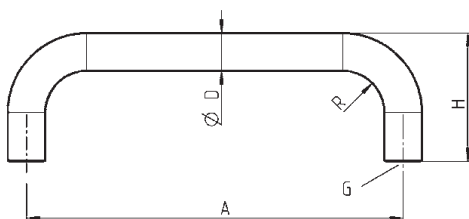
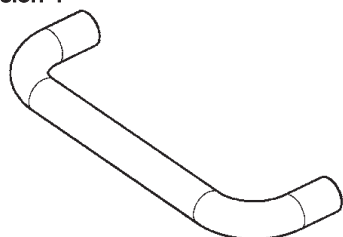
Handle polyamide GF black

	Version 1	Version 2
Handle for hexagon or socket head screw M6 acc. to DIN 4017/1207	1095-05	1095-19
Handle for countersunk screw M5 or rivet 4.8 mm dia	1095-06	—

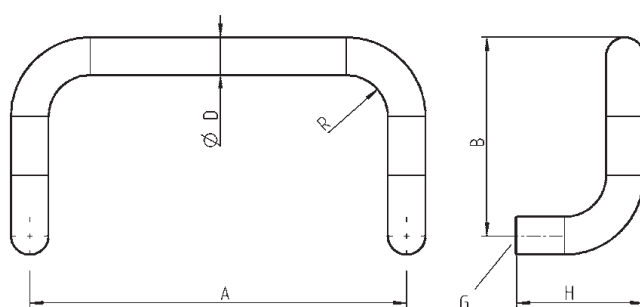
Bow-type handles

PROGRAM 1095

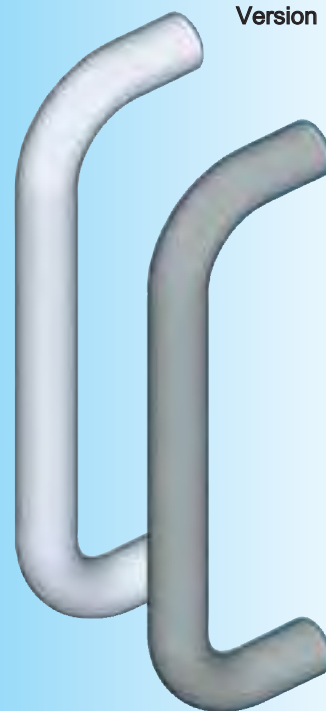
Version 1



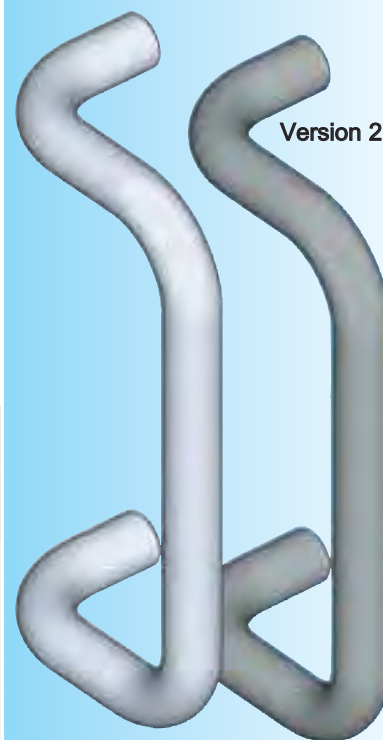
Version 2



Version 1



Version 2



Bow-type handle, aluminium shiny or black plastic coated, threaded bush, aluminium with $\varnothing D = 28$

Version 1

A	B	D	G	H	R	shiny	black
200	–	20	M8x15	68	22	1095-24-200KB	1095-24-200AA
250	–	20	M8x15	68	22	1095-24-250KB	1095-24-250AA
250	–	28	M10x15	78	32	1095-U24-250KB	1095-U24-250AA
300	–	20	M8x15	68	22	1095-24-300KB	1095-24-300AA
300	–	28	M10x15	78	32	1095-U24-300KB	1095-U24-300AA
350	–	20	M8x15	68	22	1095-24-350KB	1095-24-350AA
350	–	28	M10x15	78	32	1095-U24-350KB	1095-U24-350AA
400	–	28	M10x15	78	32	1095-U24-400KB	1095-U24-400AA

Version 2

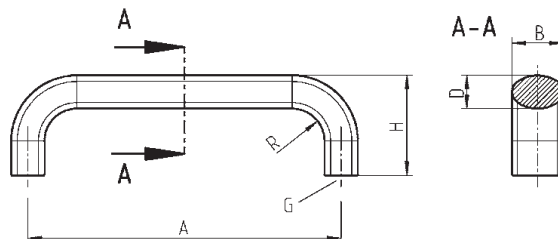
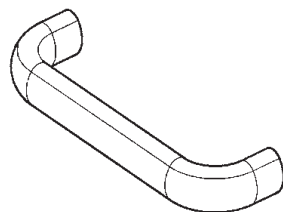
A	B	D	G	H	R	shiny	black
200	105	20	M8x15	68	22	1095-25-200KB	1095-25-200AA
250	120	28	M10x15	78	32	1095-U25-250KB	1095-U25-250AA
300	105	20	M8x15	68	22	1095-25-300KB	1095-25-300AA
350	120	28	M10x15	78	32	1095-U25-350KB	1095-U25-350AA
500	120	28	M10x15	78	32	1095-U25-500KB	1095-U25-500AA

Bow-typed handles with $\varnothing D = 28$ are made of an aluminium tube with the wall thickness being 4 mm.

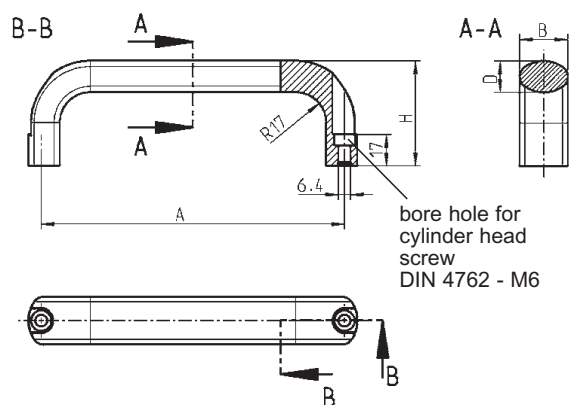
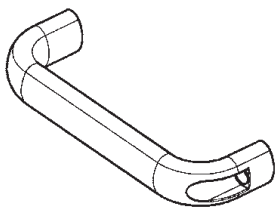
Fixing material is not included in delivery.



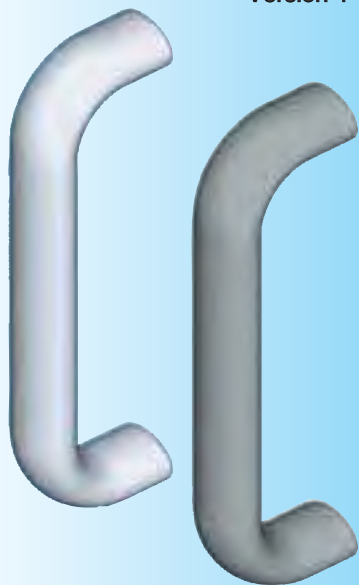
Version 1



Version 2



Version 1



Version 2



Bow-type handle, aluminium optional shiny, anodized or black plastic coated, or stainless steel AISI 304

Version 1

A	B	D	G	H	R	shiny	anodized	black
100	20	13	M6x10	47	13	1095-26-100KB	1095-26-100NA	1095-26-100AA
112	20	13	M6x10	49	13	1095-26-112KB	1095-26-112NA	1095-26-112AA
112	26	17	M8x12	53	17	1095-27-112KB	1095-27-112NA	1095-27-112AA
128	20	13	M6x10	51	13	1095-26-128KB	1095-26-128NA	1095-26-128AA
128	26	17	M8x12	55	17	1095-27-128KB	1095-27-128NA	1095-27-128AA
160	20	13	M6x10	51	13	1095-26-160KB	1095-26-160NA	1095-26-160AA
160	26	17	M8x12	57	17	1095-27-160KB	1095-27-160NA	1095-27-160AA
192	26	17	M8x12	57	17	1095-26-192KB	1095-26-192NA	1095-26-192AA
300	26	17	M8x12	57	17	1095-26-300KB	1095-26-300NA	1095-26-300AA
400	26	17	M8x12	57	17	1095-26-400KB	1095-26-400NA	1095-26-400AA
500	26	17	M8x12	57	17	1095-26-500KB	1095-26-500NA	1095-26-500AA

Version 1

A	B	D	G	H	R	AISI 304		
112	20	13	M6x10	49	13			1095-26-112PC
128	20	13	M6x10	51	13			1095-26-128PC

Bow-type handle, aluminium optional shiny, anodized or black plastic coated

Version 2

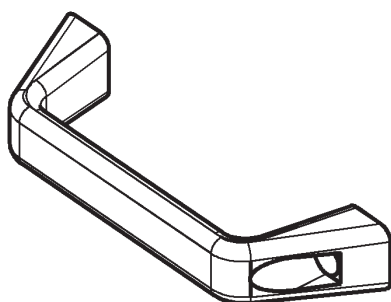
A	B	D	H	shiny	anodized	black
116	26	17	53	1095-28-116KB	1095-28-116NA	1095-28-116AA
132	26	17	55	1095-28-132KB	1095-28-132NA	1095-28-132AA
164	26	17	57	1095-28-164KB	1095-28-164NA	1095-28-164AA
196	26	17	57	1095-28-196KB	1095-28-196NA	1095-28-196AA

Fixing material is not included in delivery.

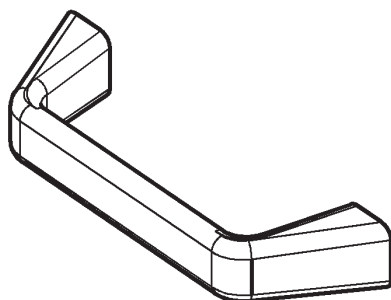
Bow-type handles

PROGRAM 1095

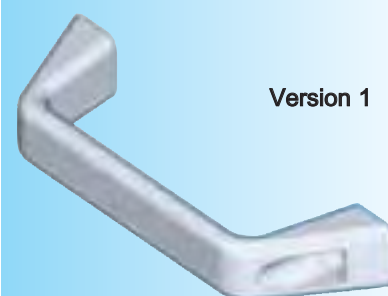
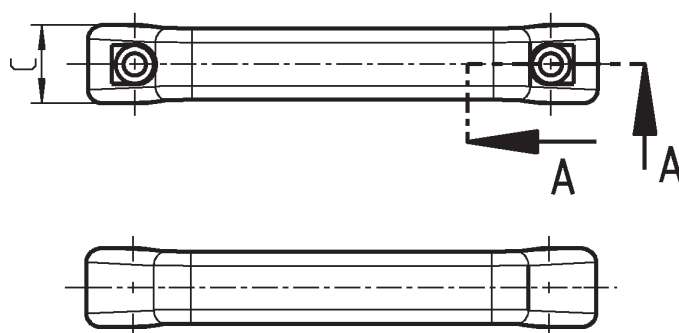
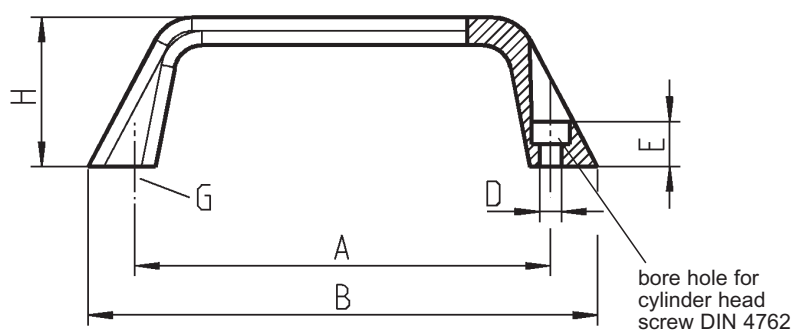
Version 1



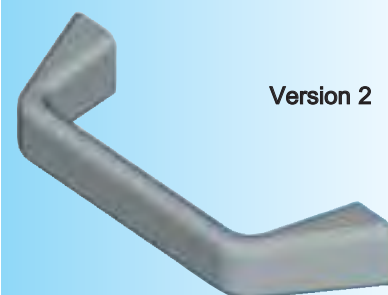
Version 2



A-A



Version 1



Version 2

Bow-type handle, aluminium die-casting shiny or black, plastic coated

Version 1

A	B	C	D	E	H	shiny	black
120	147	22.5	6.4	13	43	1095-29-120KB	1095-29-120AA
180	215	27	8.4	16	48	1095-29-180KB	1095-29-180AA

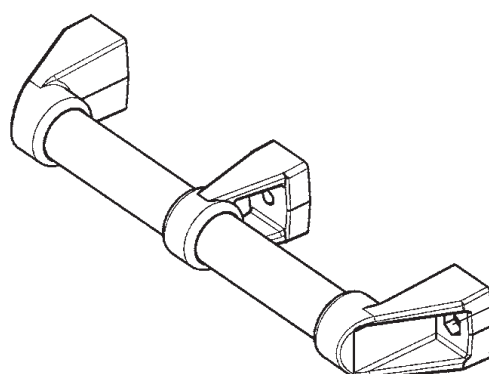
Version 2

A	B	C	G	H		shiny	black
120	147	22.5	M6x10	43		1095-30-120KB	1095-30-120AA
180	215	27	M8x12	48		1095-30-180KB	1095-30-180AA

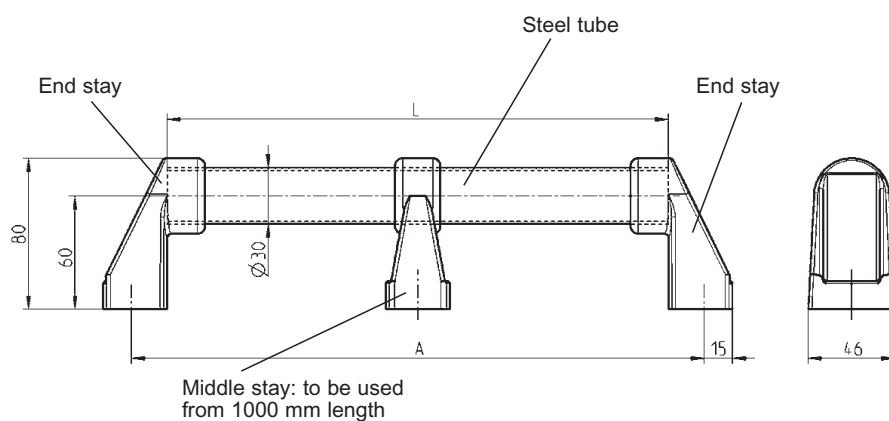
Fixing material is not included in delivery.

6A-180

(6A-143)



for hexagon or pan head screw M8
according to DIN 4017/1207



Handle with variable length

Fixing material is not included
in delivery.

Handle consisting of:

End stay polyamide GF black

1095-07

Middle stay polyamide GF black

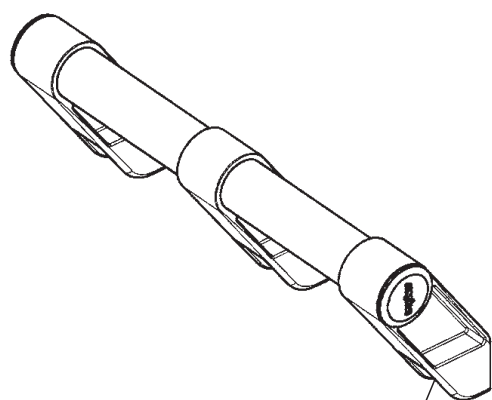
1095-20

Steel tube Ø 30 black coated

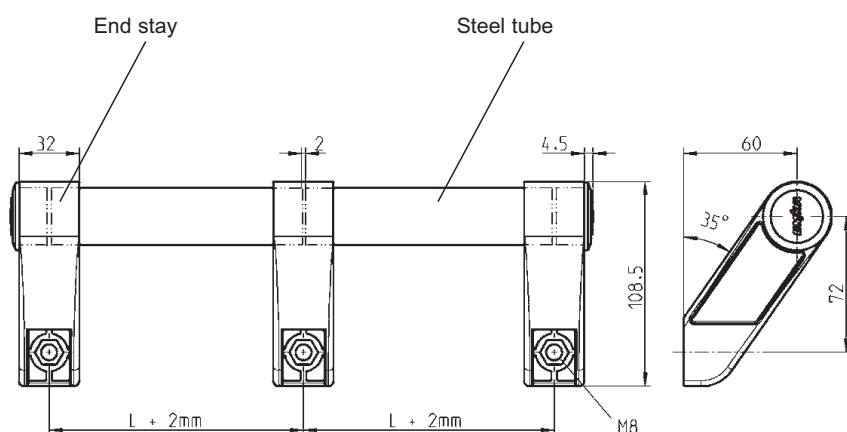
L	A		L	A	
266	300	1095-08	366	400	1095-09
466	500	1095-10	566	600	1095-11
666	700	1095-13	766	800	1095-14
2500	2534	1095-21			
up to 5000 mm*			1095-12-L mm		
* Minimum quantity and delivery time on request!					

Handle with variable length

PROGRAM 1095



for hexagon or pan head screw M8 according to DIN 4017/1207



Handle stay is usable as LH/RH and as a middle stay.
When used as a middle stay the tube has to be split.

Handle stay polyamide black for hexagon or pan head screw M8
with 1 plug polypropylene black

1095-U01

Steel tube Ø 30 black coated

L = 266	1095-08	L = 366	1095-09
L = 466	1095-10	L = 566	1095-11
L = 666	1095-13	L = 766	1095-14

up to 5000 mm*

1095-12-L mm

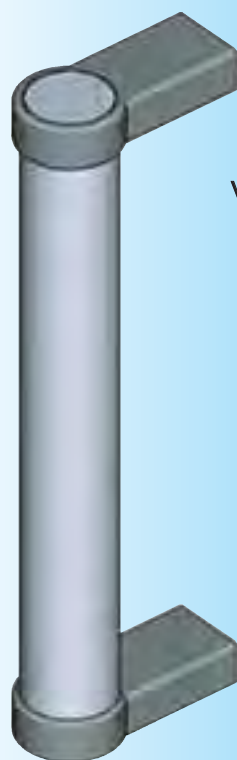
* Minimum quantity and delivery time on request!

Handle with variable length
(35°-Slope)

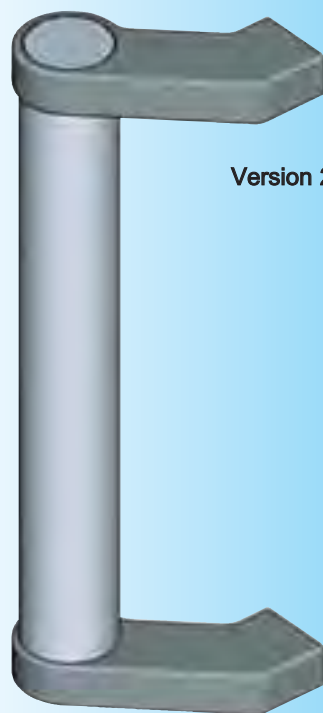
Fixing material is not included
in delivery.

6A-240

(6A-151)

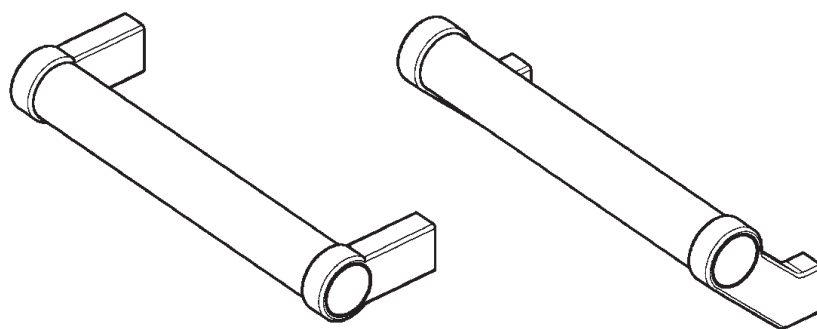


Version 1

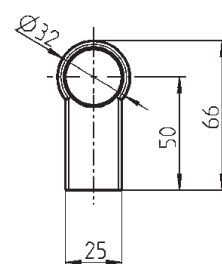
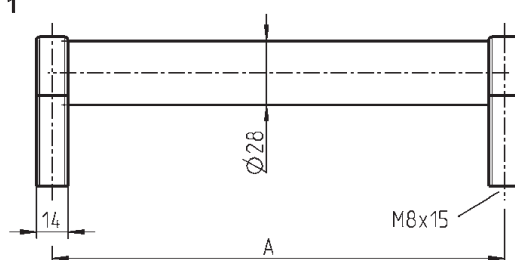


Version 2

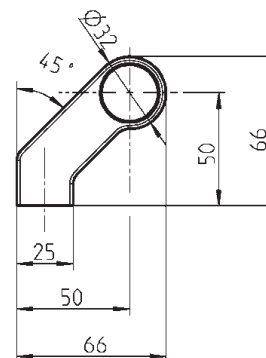
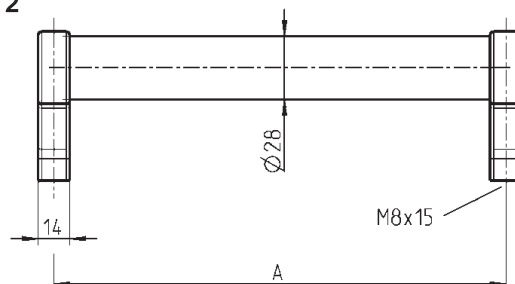
Fixing material is not included in delivery.



Version 1



Version 2

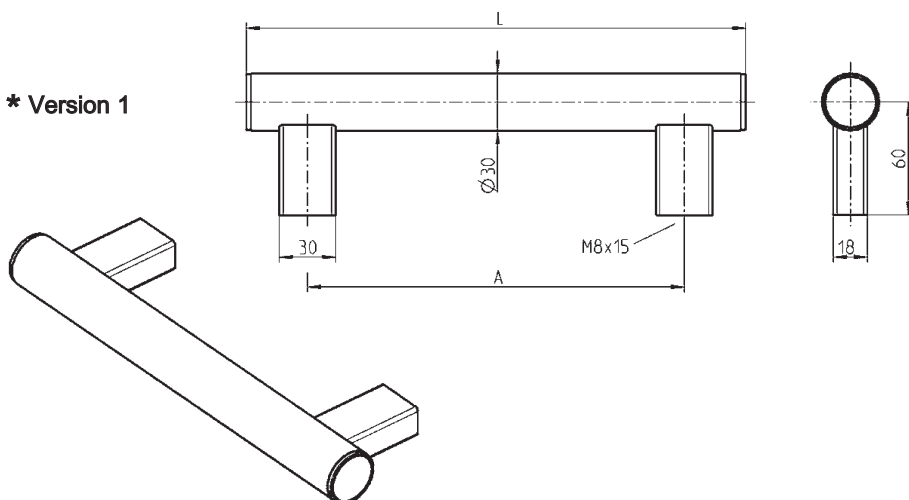


Tube handle, aluminium anodized or black plastic coated, posts zinc die black plastic coated, plastic cap light grey, screw m.s. zinc plated

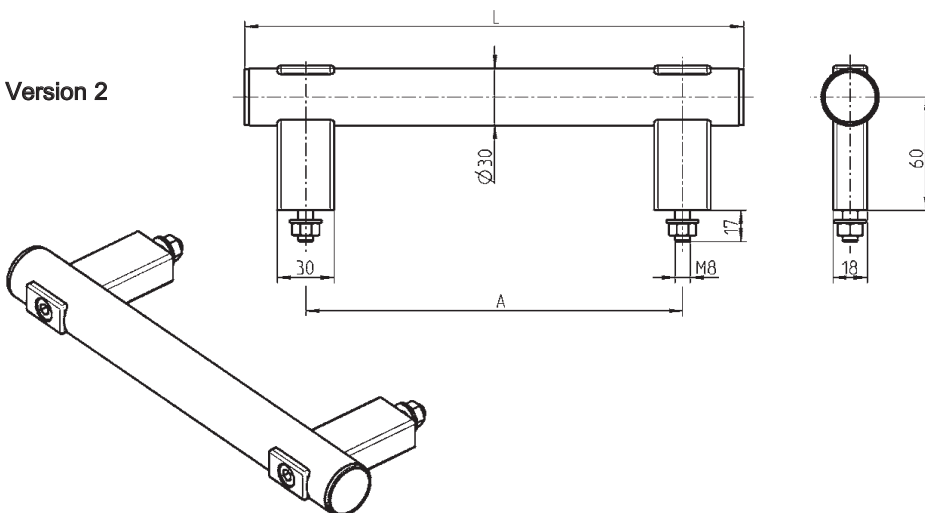
Version 1	A	anodized	black
	200	1095-U26-200NA	1095-U26-200AA
	250	1095-U26-250NA	1095-U26-250AA
	300	1095-U26-300NA	1095-U26-300AA
	400	1095-U26-400NA	1095-U26-400AA
	500	1095-U26-500NA	1095-U26-500AA
	600	1095-U26-600NA	1095-U26-600AA
Version 2	A	anodized	black
	200	1095-U27-200NA	1095-U27-200AA
	250	1095-U27-250NA	1095-U27-250AA
	300	1095-U27-300NA	1095-U27-300AA
	400	1095-U27-400NA	1095-U27-400AA
	500	1095-U27-500NA	1095-U27-500AA
	600	1095-U27-600NA	1095-U27-600AA

Tube handle PROGRAM 1095

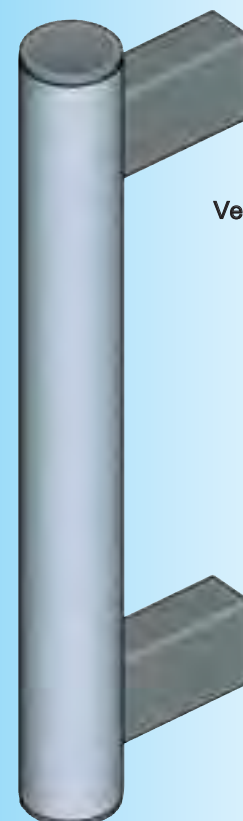
* Version 1



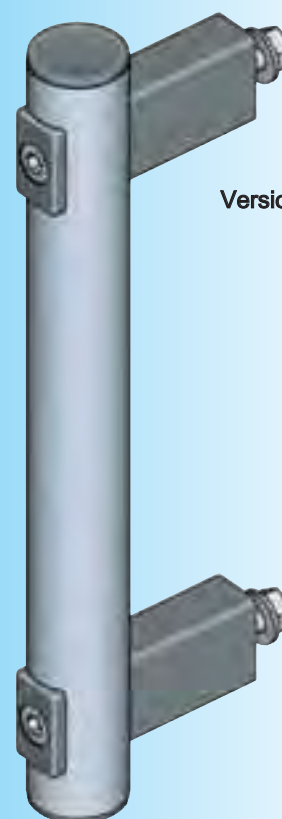
Version 2



Version 1



Version 2



Tube handle, aluminium anodized or black plastic coated with black polyamide GF posts, plastic cap black, fixing screw and nut m.s. zinc plated

Version 1

A	L	anodized	black
200	265	1095-U28-200NA	1095-U28-200AA
250	315	1095-U28-250NA	1095-U28-250AA
300	365	1095-U28-300NA	1095-U28-300AA
400	465	1095-U28-400NA	1095-U28-400AA
500	565	1095-U28-500NA	1095-U28-500AA
600	665	1095-U28-600NA	1095-U28-600AA

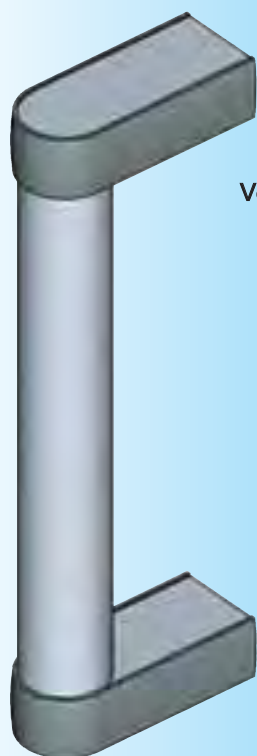
Version 2

A	L	anodized	black
200	265	1095-U29-200NA	1095-U29-200AA
250	315	1095-U29-250NA	1095-U29-250AA
300	365	1095-U29-300NA	1095-U29-300AA
400	465	1095-U29-400NA	1095-U29-400AA
500	565	1095-U29-500NA	1095-U29-500AA
600	665	1095-U29-600NA	1095-U29-600AA

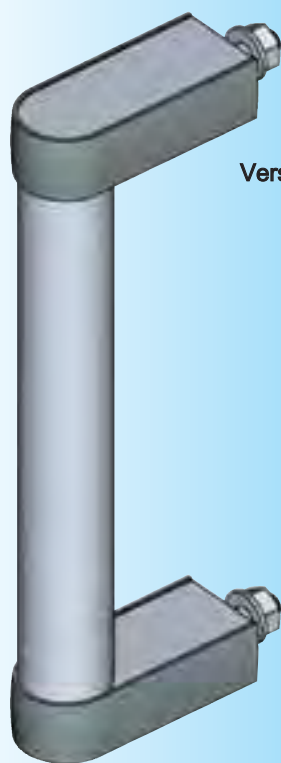
* Fixing material is not included in delivery.

6A-340

(6A-153)

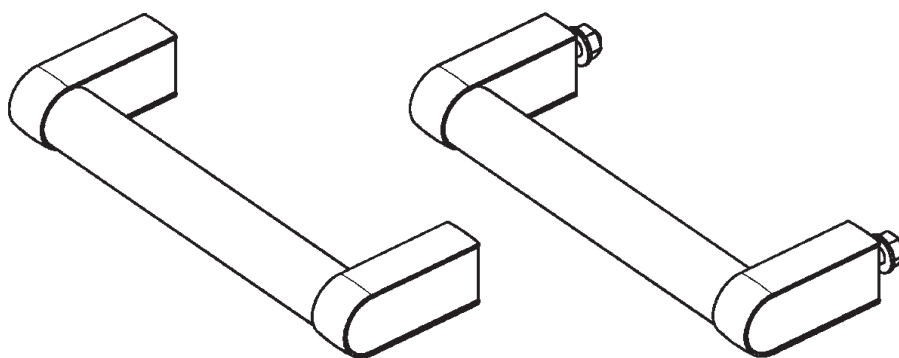


Version 1

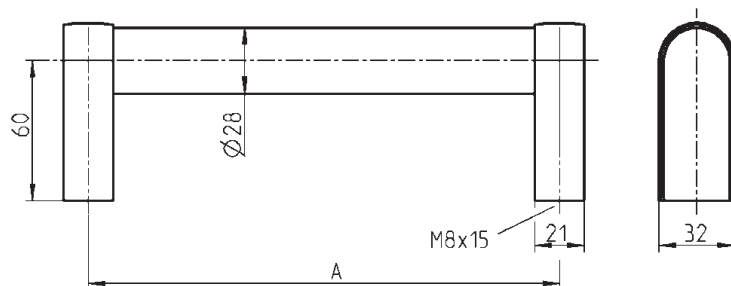


Version 2

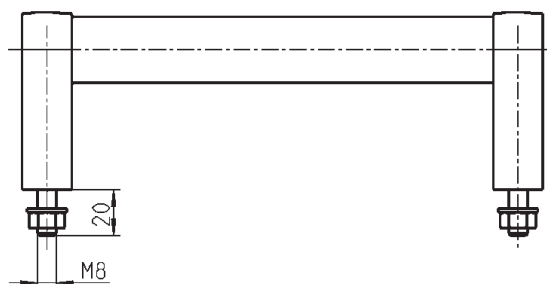
* Fixing material is not included in delivery.



* Version 1



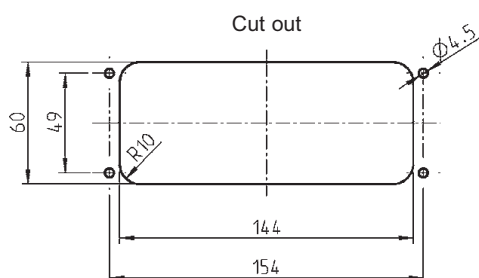
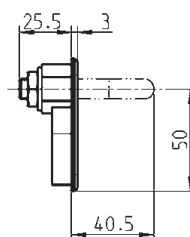
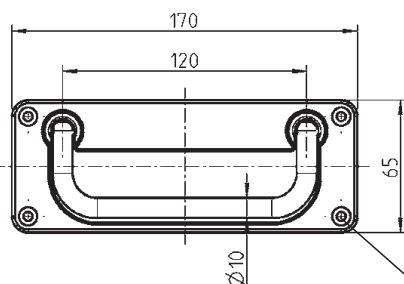
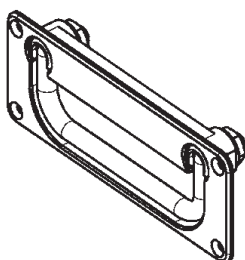
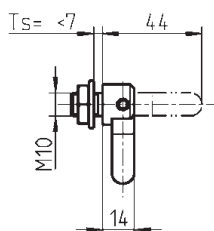
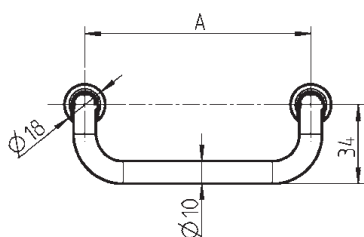
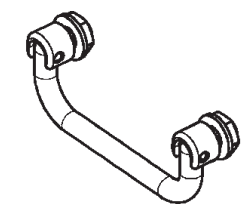
Version 2



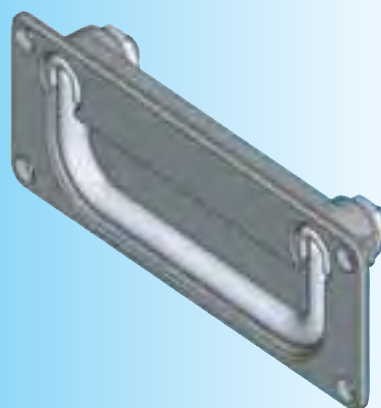
Tube handle and posts: aluminium anodized or black plastic coated, cover polyamide black, screw and nut m.s. zinc plated

Version 1	A	anodized	black
	200	1095-U30-200NA	1095-U30-200AA
	250	1095-U30-250NA	1095-U30-250AA
	300	1095-U30-300NA	1095-U30-300AA
	400	1095-U30-400NA	1095-U30-400AA
	500	1095-U30-500NA	1095-U30-500AA
	600	1095-U30-600NA	1095-U30-600AA
Version 2	A	anodized	black
	200	1095-U31-200NA	1095-U31-200AA
	250	1095-U31-250NA	1095-U31-250AA
	300	1095-U31-300NA	1095-U31-300AA
	400	1095-U31-400NA	1095-U31-400AA
	500	1095-U31-500NA	1095-U31-500AA
	600	1095-U31-600NA	1095-U31-600AA

Tube handle PROGRAM 1095



* fixing hole for countersunk screw small head M4



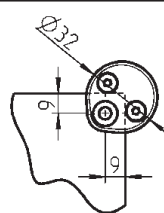
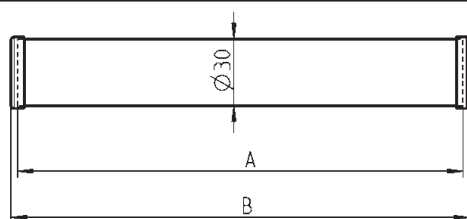
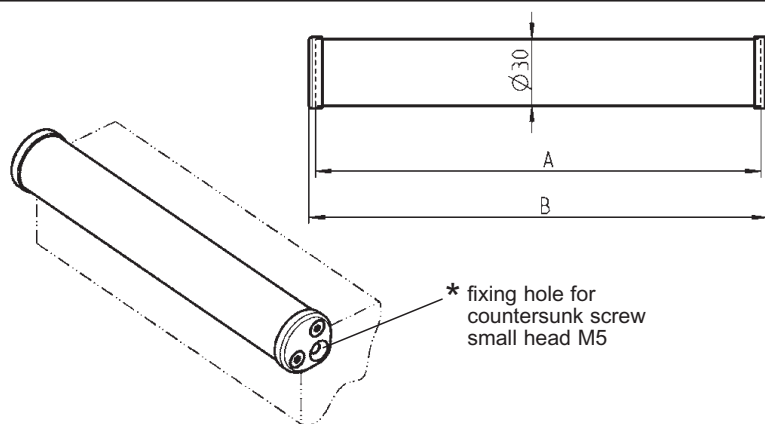
small head = DIN ISO 2009, 2010, 7046-1, 7046-2, 7047

Hinged pattern handle m.s. chrome plated or stainl. st. AISI 303, fixing mat. AISI 303

A	m.s. chrome pl.	AISI 303
100	1095-U32-100IA	1095-U32-100PF
120	1095-U32-120IA	1095-U32-120PF
180	1095-U32-180IA	1095-U32-180PF

Hinged pattern handle m.s. chrome plated, tray zinc die black

1095-U32-AA



* fixing hole for countersunk screw small head M5

Edge handle aluminium profile, end pieces zinc die black, screws m.s. black

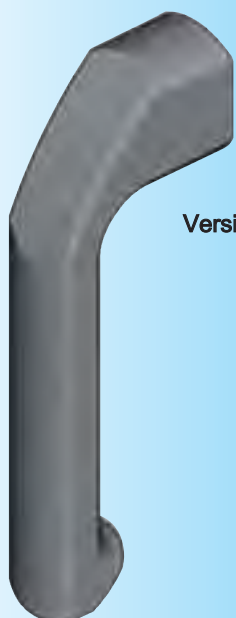
A	B	
200	206	1095-U33-200AA
300	306	1095-U33-300AA
400	406	1095-U33-400AA
500	506	1095-U33-500AA



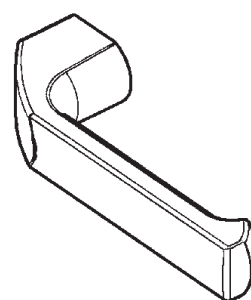
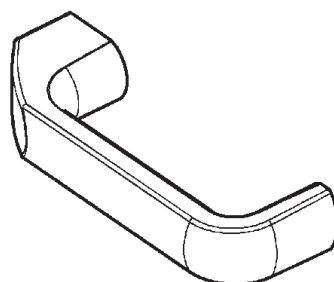
* Fixing material is not included in delivery.



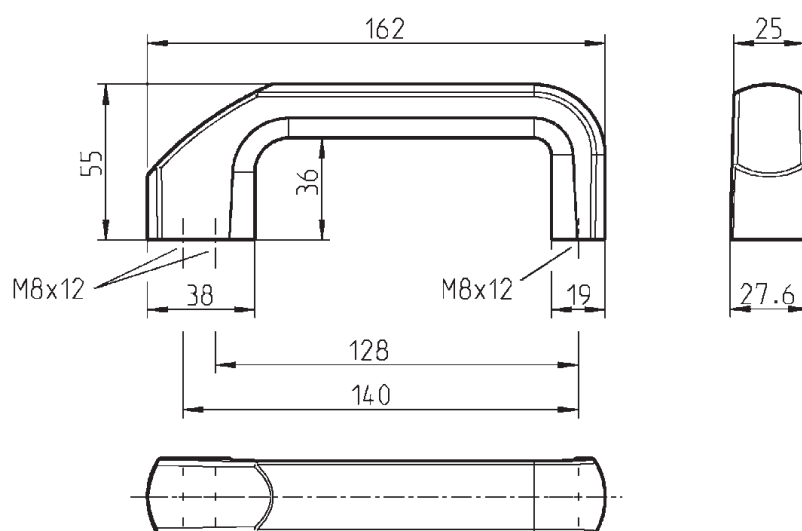
Version 1



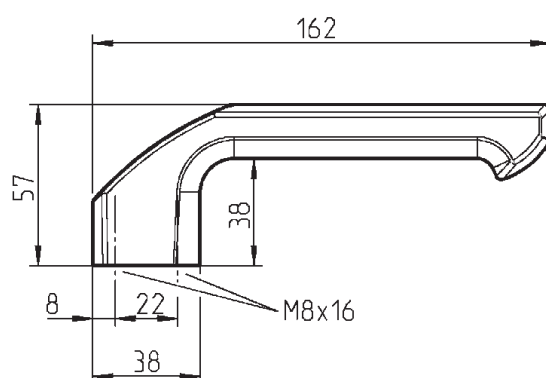
Version 2



Version 1



Version 2



Fixing material is not included in delivery.

6A-440

(6A-158)

Operating handle aluminium black plastic coated

Version 1

1095-31-200AA

Version 2

1095-32-200AA

Handle Program 6040

1



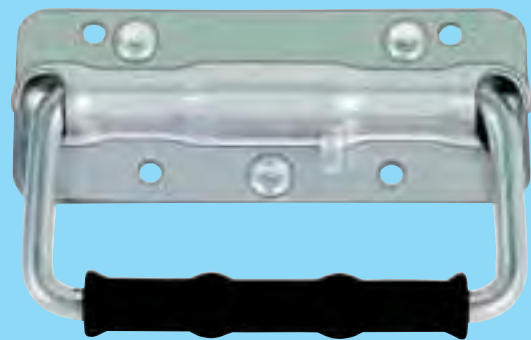
2



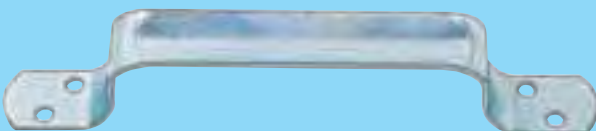
3



4



5



6



- | | | |
|---|---|--------|
| 1 | Hinged pattern handle | 6B-120 |
| 2 | Hinged pattern handle with leaf spring | 6B-140 |
| 3 | Hinged pattern handle with insert piano wire torsion spring | 6B-160 |
| 4 | Hinged pattern handle with piano wire torsion spring | 6B-180 |
| 5 | Bow-type handle | 6B-220 |
| 6 | Hinged pattern handle | 6B-240 |

New

Surface with steel parts:
zinc plated, thick-film passivated (DS)
and Top Coat sealed.

6B-100

Info

1 Quarter turns

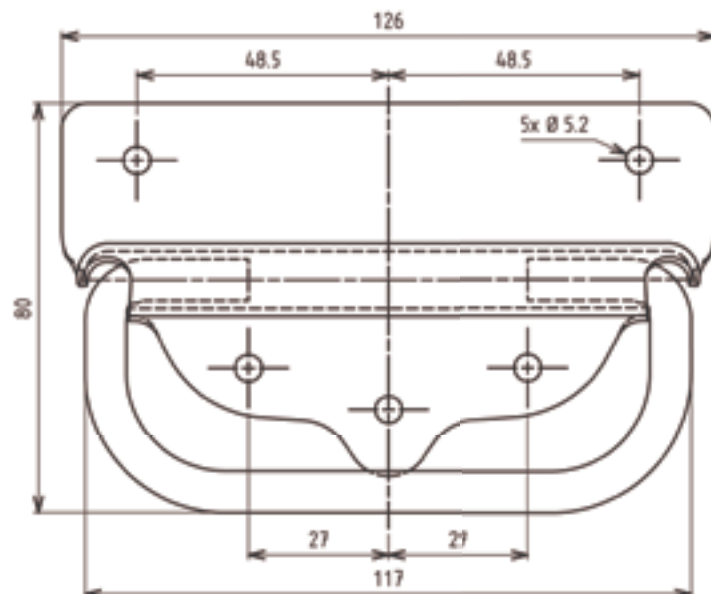
2 Rod controls

3 Locking
systems

4 Hinges

5 Gasketing

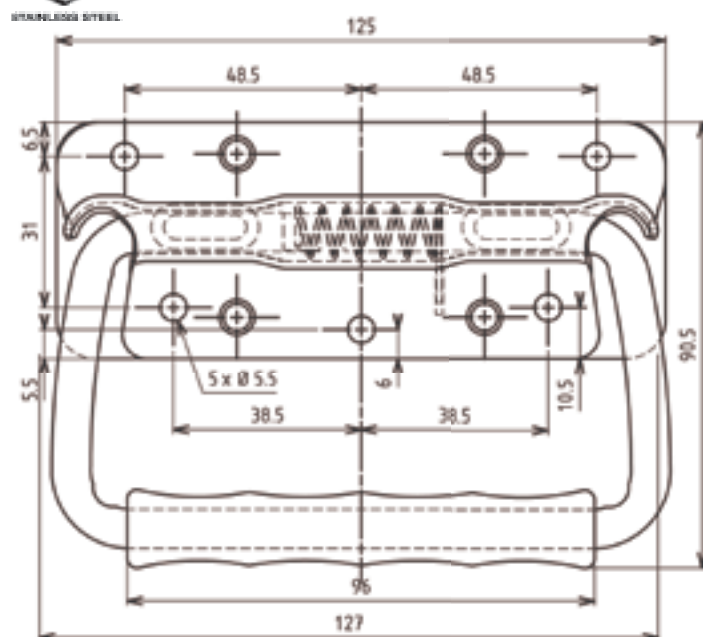
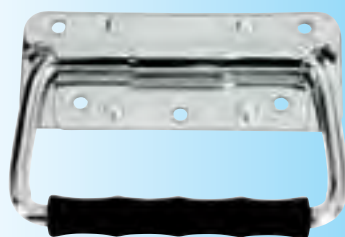
6 Handles



Hinged pattern handle

Further parts see page
– Back plate 6B-320

	without piano wire torsion spring
Raw steel drilled	6040-U12-KA
Raw steel undrilled	6040-U12-01KA
Zinc plated steel DS plus Top Coat drilled	6040-U12-JQ

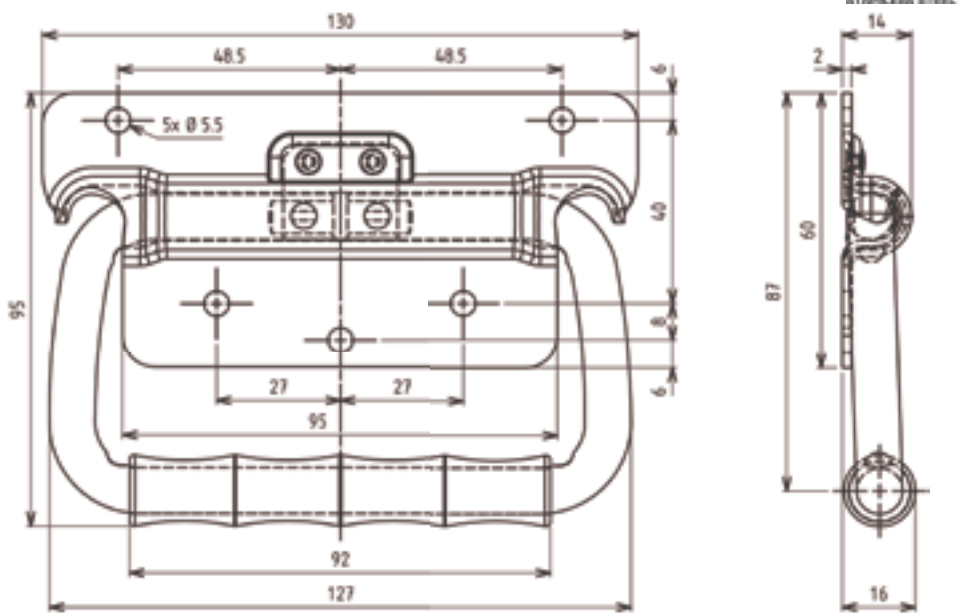


Hinged pattern handle

	without piano wire torsion spring	with piano wire torsion spring
Zinc plated steel DS plus Top Coat drilled	6040-U14-JQ	6040-U13-JQ
AISI 304 drilled	6040-U14-PC	6040-U13-PC

6B-120

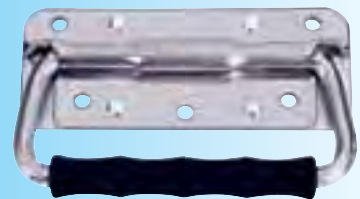
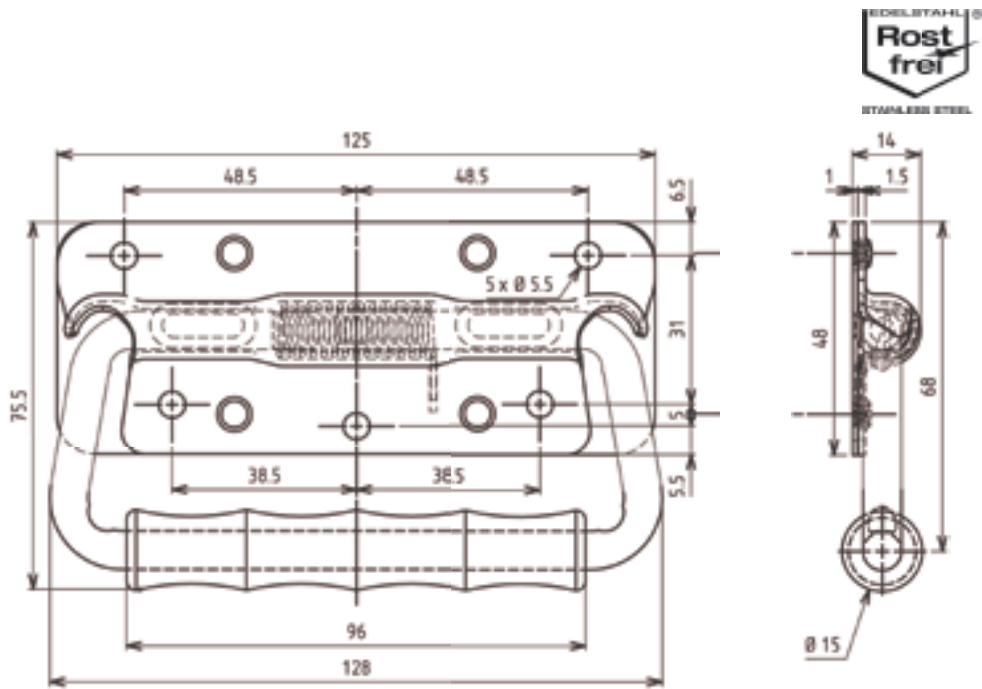
(9B-120)



Hinged pattern handle

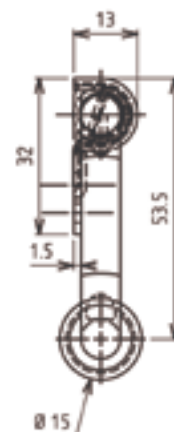
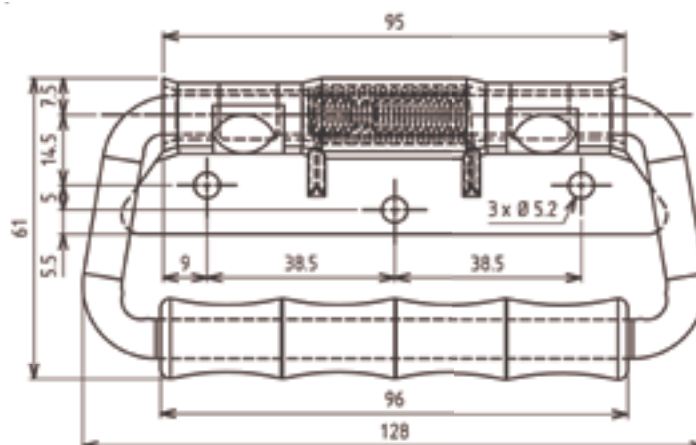
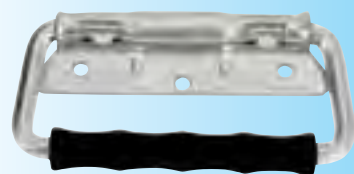
	without leaf spring	with leaf spring
Zinc plated steel DS plus Top Coat drilled	6040-U24-JQ	6040-U23-JQ
AISI 304 drilled	6040-U24-PC	6040-U23-PC

Further parts see page
– Back plate 6B-320



Hinged pattern handle

	without piano wire torsion spring	with piano wire torsion spring
Zinc plated steel DS plus Top Coat drilled	6040-U34-JQ	6040-U33-JQ
AISI 304 drilled	6040-U34-PC	6040-U33-PC



Hinged pattern handle

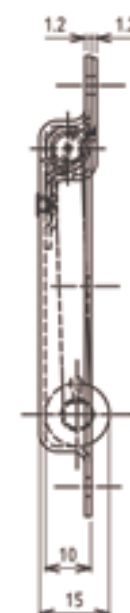
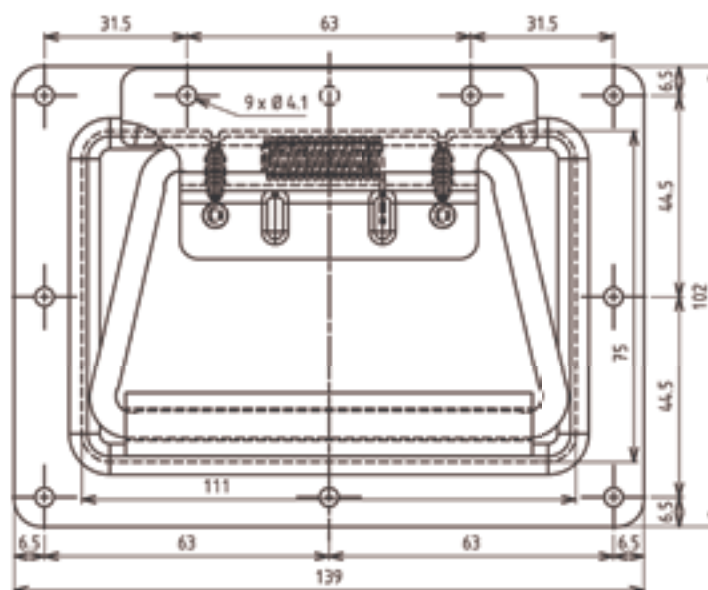
Zinc plated steel DS plus Top Coat drilled

AISI 304 drilled

with piano wire
torsion spring

6040-U35-JQ

6040-U35-PC



Hinged pattern handle insert

Zinc plated steel DS plus Top Coat drilled

AISI 304 drilled

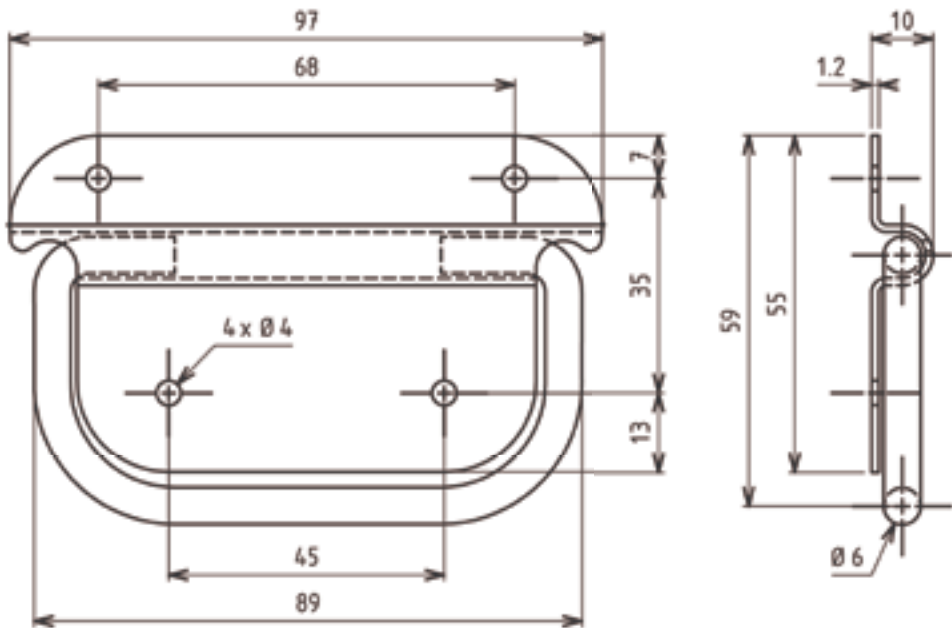
with piano wire
torsion spring

6040-U41-JQ

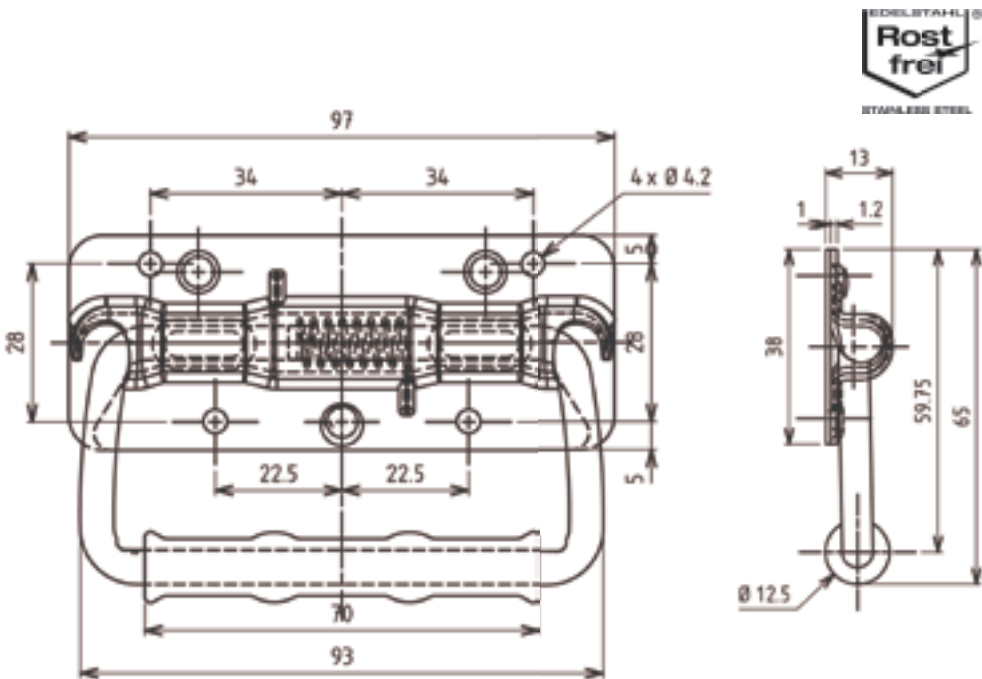
6040-U41-PC

Handle

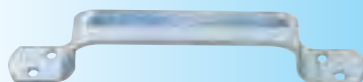
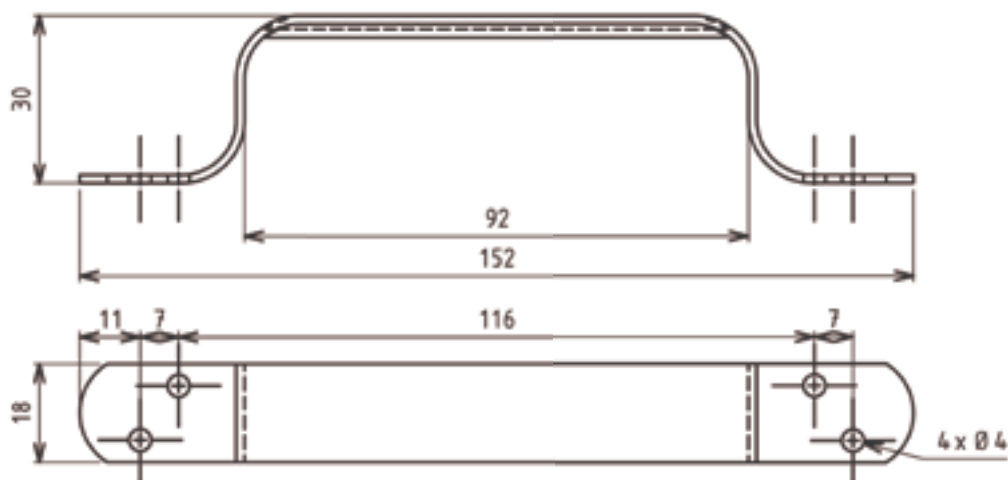
PROGRAM 6040



Hinged pattern handle		
		without piano wire torsion spring
Zinc plated steel DS plus Top Coat drilled		6040-U46-JQ

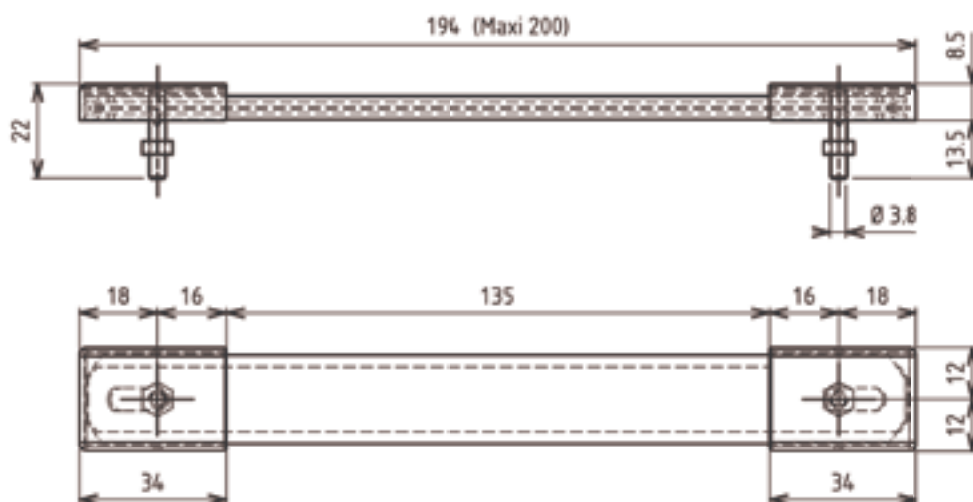


Hinged pattern handle		
	without piano wire torsion spring	with piano wire torsion spring
Zinc plated steel DS plus Top Coat drilled	6040-U54-JQ	6040-U53-JQ
AISI 304 drilled	6040-U54-PC	6040-U53-PC



Bow-type handle

Raw steel drilled	6040-15-KA
Raw steel undrilled	6040-15-01KA
Zinc plated steel DS plus Top Coat drilled	6040-15-JQ
AISI 304 drilled	6040-15-PC

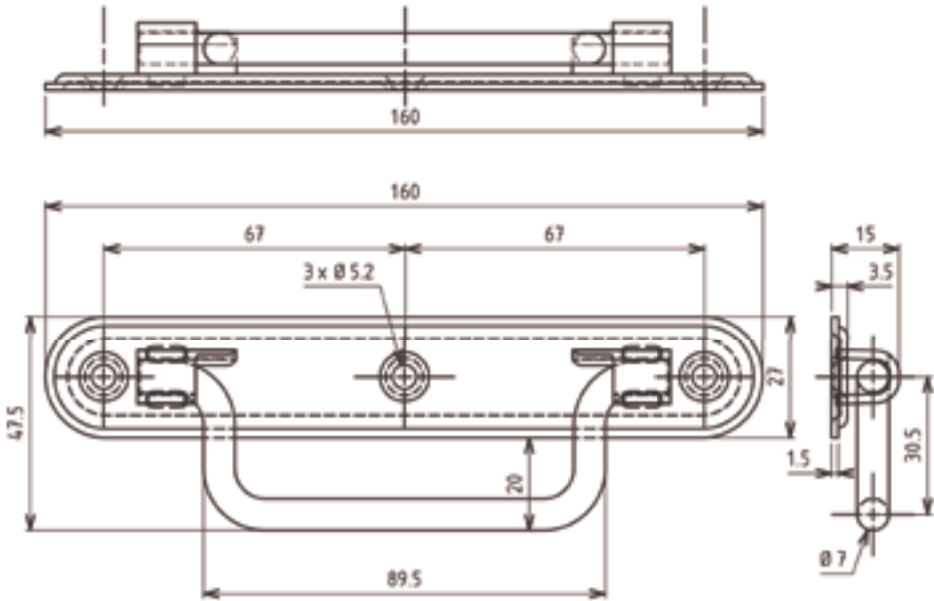
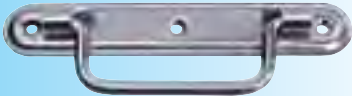


Case-handle

Nickel plated steel drilled	6040-U19-LA
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Handle

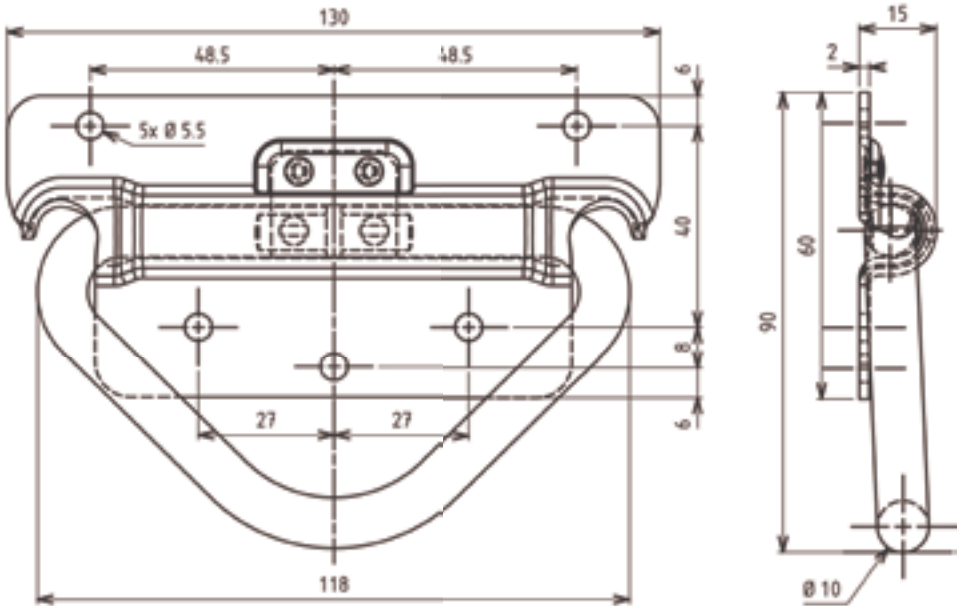
PROGRAM 6040



Hinged pattern handle

without piano wire
torsion spring
6040-U94-JQ

Zinc plated steel DS plus Top Coat drilled



Slinging ring

with leaf spring

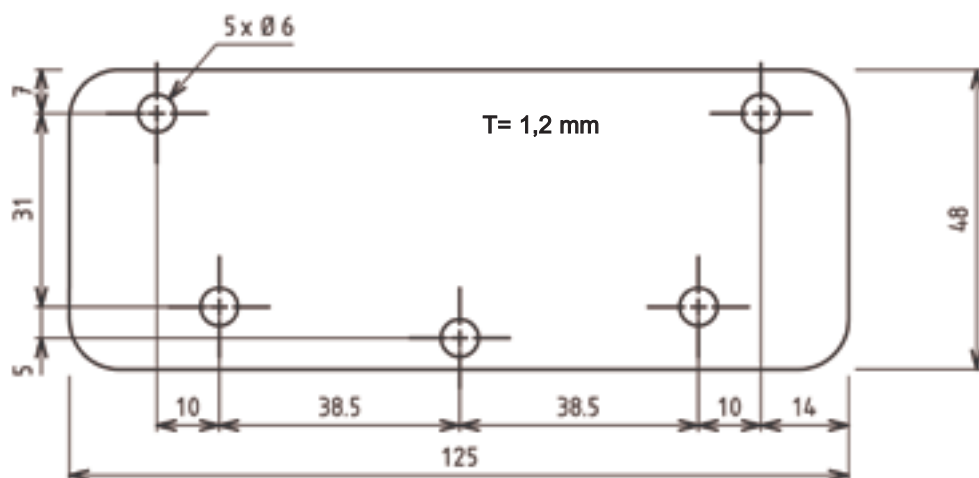
Zinc plated steel DS plus Top Coat drilled

6040-U80-JQ

AISI 304 drilled

6040-U80-PC



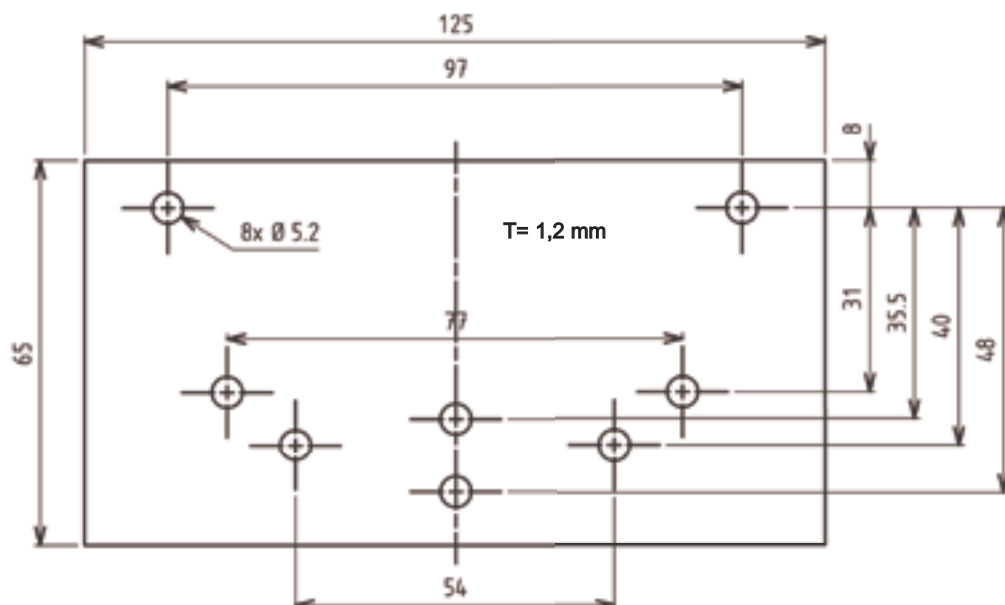


Further parts see page
– Hinged pattern handle 6B-120
6B-140

Back plate for handle

Zinc plated steel DS plus Top Coat

6042-63-JQ



Further parts see page
– Hinged pattern handle 6B-120
6B-140

Back plate for handle

Zinc plated steel DS plus Top Coat

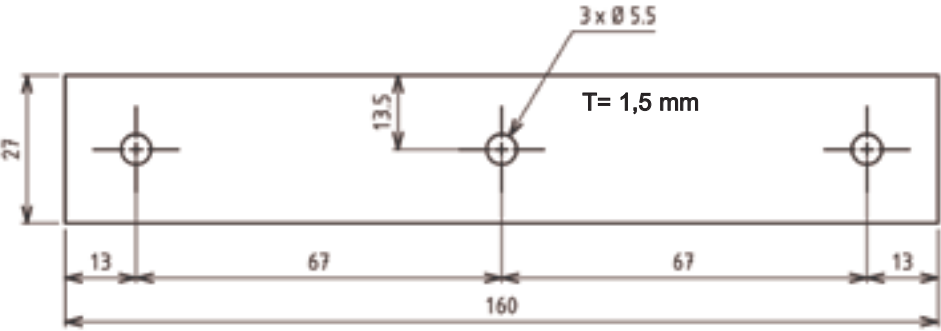
6042-69-JQ

AISI 304

6042-69-PC

Back plate

PROGRAM 6040



Back plate for handle

Zinc plated steel DS plus Top Coat

6042-278-JQ

Further parts see page
– Hinged pattern handle 6B-240

Notes:

Aluminium window Program 1200



- 1 Aluminium window without frame
- 2 Aluminium window with 30 mm frame,
- 3 Aluminium window with 61 mm frame,

7A-140, 7A-160
7A-220 to 7A-260
7A-320 to 7A-360

Can be assembled with gas struts upon request.

7A-100

Info

1 Quarter turns

2 Rod controls

3 Locking
systems

4 Hinges

5 Gasketing

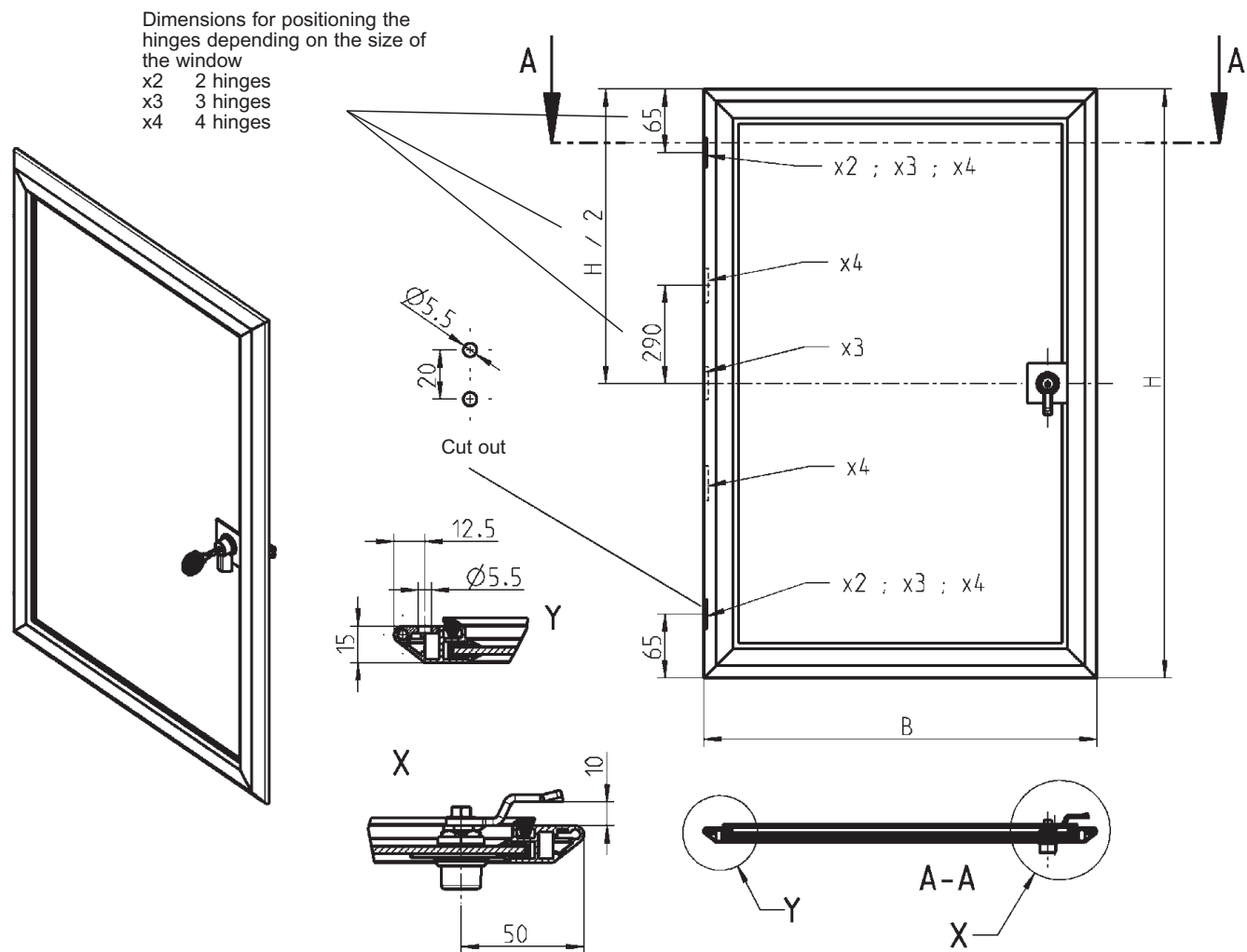
6 Handles

7 Aluminium
windows

Aluminium window

PROGRAM 1200

Aluminium window without frame, with front mounted wingknob



Part number		W	
Height in mm	Width in mm	→700	→800
→900		1200-U55-07 3/3	1200-U56-07 3/3
→1000		1200-U55-08 3/3	1200-U56-08 3/3

Number of locks

Number of hinges

Order example:
The request is for a window with the dimensions:
W = 620 mm, H = 840 mm.
Part number 1200-U65-07 620x840

If more than one lock is fitted, only one will be keyed 2233X. Keyed different on request.

For dimensions W and H, number of locks and hinges as well as part numbers, see opposite page.

Beschlagteile

Aluminium window anodized aluminium, acrylic glass 3 mm thick,
locks zinc die black powder coated, with gasketing



Opening angle 140°

Attention:
Use only polycarbonate glass for
outdoor applications
(on request)

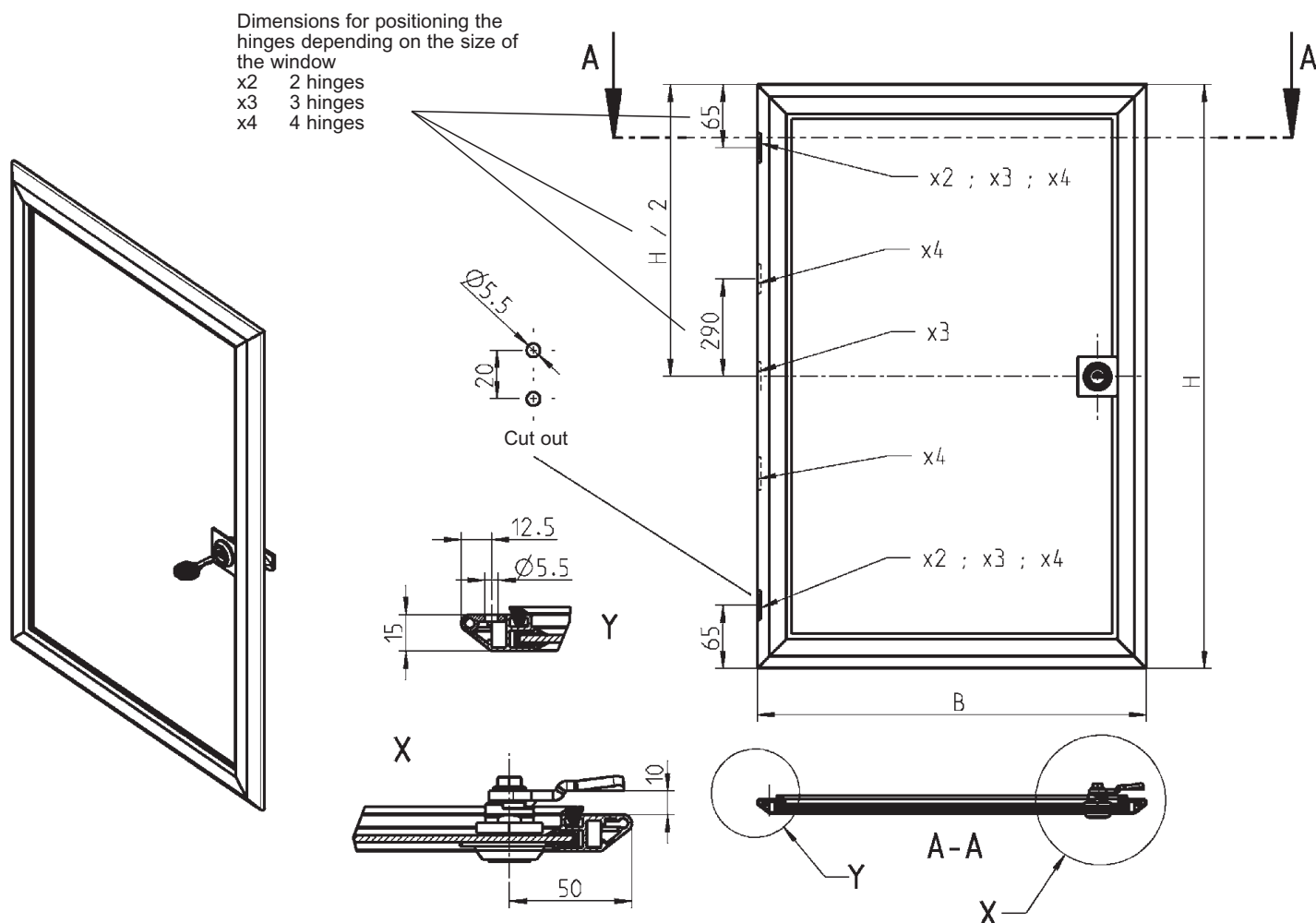
Width in mm	300←	→400	→500	→600	→700	→800	→900	→1000	
Height in mm									
300←	1200-U61-01 1/2	1200-U62-01 1/2	1200-U63-01 1/2	1200-U64-01 1/2	1200-U65-01 1/2				
→400	1200-U61-02 1/2	1200-U62-02 1/2	1200-U63-02 1/2	1200-U64-02 1/2	1200-U65-02 1/2				
→500	1200-U61-03 1/2	1200-U62-03 1/2	1200-U63-03 1/2	1200-U64-03 1/2	1200-U65-03 1/2				
→600	1200-U61-04 1/2	1200-U62-04 1/2	1200-U63-04 1/2	1200-U64-04 1/2	1200-U65-04 2/2				
→700	1200-U61-05 1/2	1200-U62-05 1/2	1200-U63-05 2/2	1200-U64-05 2/2	1200-U65-05 2/2	1200-U66-05 2/2			
→800	1200-U61-06 1/2	1200-U62-06 1/2	1200-U63-06 2/2	1200-U64-06 2/2	1200-U65-06 2/2	1200-U66-06 2/2			
→900	1200-U61-07 2/3	1200-U62-07 2/3	1200-U63-07 2/3	1200-U64-07 2/3	1200-U65-07 3/3	1200-U66-07 3/3	1200-U67-07 3/3		
→1000	1200-U61-08 2/3	1200-U62-08 2/3	1200-U63-08 2/3	1200-U64-08 2/3	1200-U65-08 3/3	1200-U66-08 3/3	1200-U67-08 3/3	1200-U68-08 3/3	
→1100		1200-U62-09 2/3	1200-U63-09 2/3	1200-U64-09 2/3	1200-U65-09 3/3	1200-U66-09 3/3	1200-U67-09 3/3	1200-U68-09 3/3	
→1200		1200-U62-10 2/3	1200-U63-10 2/3	1200-U64-10 2/3	1200-U65-10 3/3	1200-U66-10 3/3	1200-U67-10 3/3	1200-U68-10 3/3	
→1300			1200-U63-11 3/3	1200-U64-11 3/3	1200-U65-11 3/3	1200-U66-11 3/3	1200-U67-11 3/3	1200-U68-11 3/3	
→1400			1200-U63-12 3/3	1200-U64-12 3/3	1200-U65-12 3/3	1200-U66-12 3/3	1200-U67-12 3/3	1200-U68-12 3/3	
→1500			1200-U63-13 3/3	1200-U64-13 3/3	1200-U65-13 3/3	1200-U66-13 3/3	1200-U67-13 3/3	1200-U68-13 3/3	
→1600			1200-U63-14 3/3	1200-U64-14 3/3	1200-U65-14 3/3	1200-U66-14 3/3	1200-U67-14 3/3	1200-U68-14 3/3	
→1700				1200-U64-15 3/4	1200-U65-15 3/4	1200-U66-15 3/4	1200-U67-15 3/4	1200-U68-15 3/4	
→1800				1200-U64-16 3/4	1200-U65-16 3/4	1200-U66-16 3/4	1200-U67-16 3/4	1200-U68-16 3/4	
→1900					1200-U65-17 3/4	1200-U66-17 3/4	1200-U67-17 3/4	1200-U68-17 3/4	
→2000					1200-U65-18 3/4	1200-U66-18 3/4	1200-U67-18 3/4	1200-U68-18 3/4	

7A-140

Aluminium window

PROGRAM 1200

**Aluminium window without frame
with front mounted cylinder-lock**



The diagram shows a door lock selection chart with the following annotations:

- Part number**: Points to the 'Part number' column header.
- W**: Points to the 'Width in mm' column header.
- H**: Points to the 'Height in mm' column header.
- Number of locks**: Points to the 'Number of locks' column header.
- Number of hinges**: Points to the 'Number of hinges' column header.

The chart data is as follows:

Height in mm \ Width in mm	...	700	800	...
...	...	...	...	...
900	...	1200-U55-07 3/3	1200-U56-07 3/3	...
1000	...	1200-U55-08 3/3	1200-U56-08 3/3	...

Order example:
The request is for a window with the dimensions:
W = 620 mm, H = 840 mm.
Part number 1200-U75-07 620x840

Lock/locks will be keyed EK333.
Keyed different on request.

For dimensions W and H, number of locks and hinges as well as part numbers, see opposite page.

Aluminium window anodized aluminium, acrylic glass 3 mm thick,
locks zinc die black powder coated, with gasketing

Width in mm	300←	→400	→500	→600	→700	→800	→900	→1000	
Height in mm									
300←	1200-U71-01 1/2	1200-U72-01 1/2	1200-U73-01 1/2	1200-U74-01 1/2	1200-U75-01 1/2				
→400	1200-U71-02 1/2	1200-U72-02 1/2	1200-U73-02 1/2	1200-U74-02 1/2	1200-U75-02 1/2				
→500	1200-U71-03 1/2	1200-U72-03 1/2	1200-U73-03 1/2	1200-U74-03 1/2	1200-U75-03 1/2				
→600	1200-U71-04 1/2	1200-U72-04 1/2	1200-U73-04 1/2	1200-U74-04 1/2	1200-U75-04 2/2				
→700	1200-U71-05 1/2	1200-U72-05 1/2	1200-U73-05 2/2	1200-U74-05 2/2	1200-U75-05 2/2	1200-U76-05 2/2			
→800	1200-U71-06 1/2	1200-U72-06 1/2	1200-U73-06 2/2	1200-U74-06 2/2	1200-U75-06 2/2	1200-U76-06 2/2			
→900	1200-U71-07 2/3	1200-U72-07 2/3	1200-U73-07 2/3	1200-U74-07 2/3	1200-U75-07 3/3	1200-U76-07 3/3	1200-U77-07 3/3		
→1000	1200-U71-08 2/3	1200-U72-08 2/3	1200-U73-08 2/3	1200-U74-08 2/3	1200-U75-08 3/3	1200-U76-08 3/3	1200-U77-08 3/3	1200-U78-08 3/3	
→1100		1200-U72-09 2/3	1200-U73-09 2/3	1200-U74-09 2/3	1200-U75-09 3/3	1200-U76-09 3/3	1200-U77-09 3/3	1200-U78-09 3/3	
→1200		1200-U72-10 2/3	1200-U73-10 2/3	1200-U74-10 2/3	1200-U75-10 3/3	1200-U76-10 3/3	1200-U77-10 3/3	1200-U78-10 3/3	
→1300			1200-U73-11 3/3	1200-U74-11 3/3	1200-U75-11 3/3	1200-U76-11 3/3	1200-U77-11 3/3	1200-U78-11 3/3	
→1400			1200-U73-12 3/3	1200-U74-12 3/3	1200-U75-12 3/3	1200-U76-12 3/3	1200-U77-12 3/3	1200-U78-12 3/3	
→1500			1200-U73-13 3/3	1200-U74-13 3/3	1200-U75-13 3/3	1200-U76-13 3/3	1200-U77-13 3/3	1200-U78-13 3/3	
→1600			1200-U73-14 3/3	1200-U74-14 3/3	1200-U75-14 3/3	1200-U76-14 3/3	1200-U77-14 3/3	1200-U78-14 3/3	
→1700				1200-U74-15 3/4	1200-U75-15 3/4	1200-U76-15 3/4	1200-U77-15 3/4	1200-U78-15 3/4	
→1800				1200-U74-16 3/4	1200-U75-16 3/4	1200-U76-16 3/4	1200-U77-16 3/4	1200-U78-16 3/4	
→1900					1200-U75-17 3/4	1200-U76-17 3/4	1200-U77-17 3/4	1200-U78-17 3/4	
→2000					1200-U75-18 3/4	1200-U76-18 3/4	1200-U77-18 3/4	1200-U78-18 3/4	



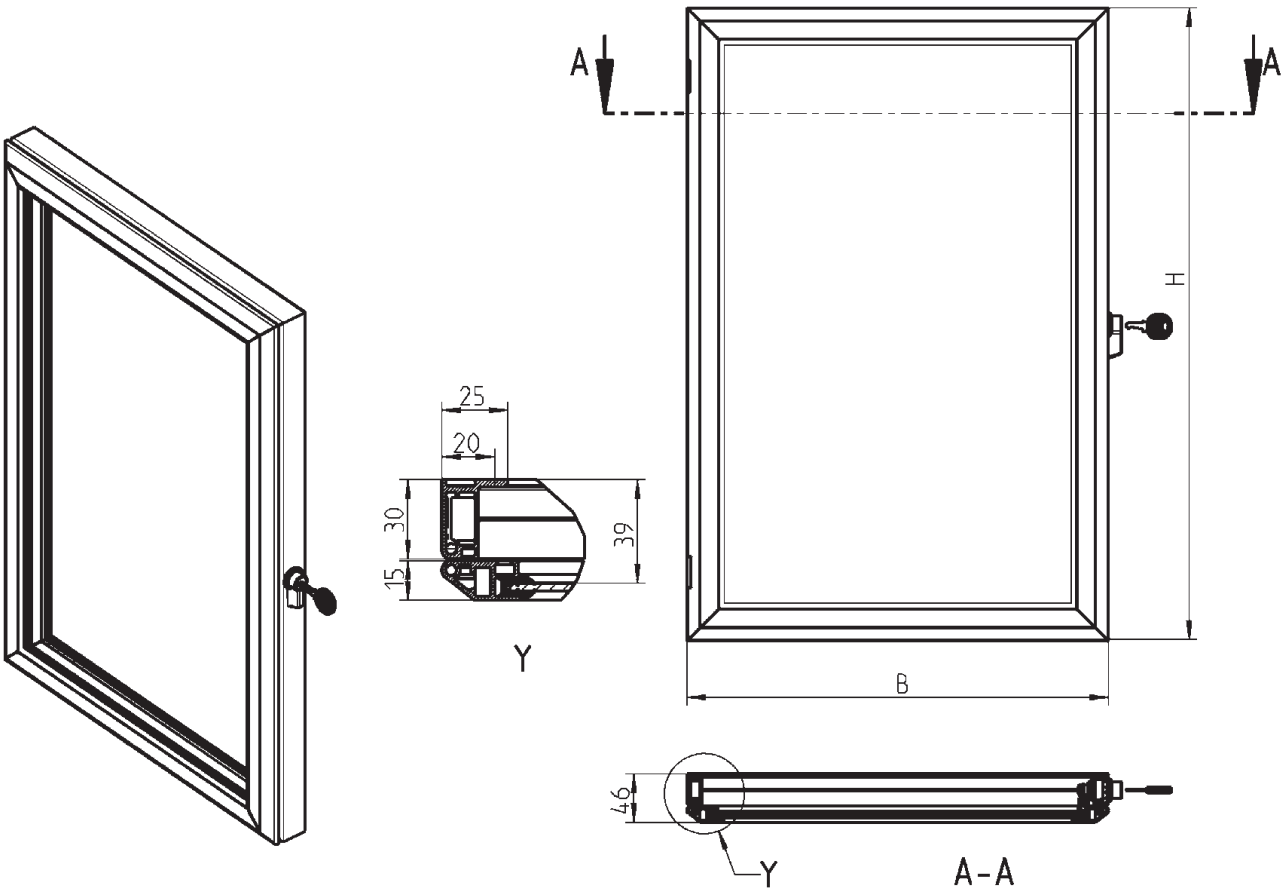
Opening angle 140°

Attention:
Use only polycarbonate glass for
outdoor applications
(on request)

Aluminium window

PROGRAM 1200

Aluminium window with 30 mm frame,
with side mounted wingknob



		Part number	
Height in mm	Width in mm	W	
		→700	→800
		/.	/.
→900	/.	1200-U55-07 3/3	1200-U56-07 3/3
→1000	/.	1200-U55-08 3/3	1200-U56-08 3/3
		Number of hinges	
		Number of locks	

Order example:
The request is for a window with the dimensions:
W = 620 mm, H = 840 mm.
Part number 1200-U5-07 620x840

If more than one lock is fitted, only one will be
keyed 2233X. Keyed different on request.

For dimensions W and H, number of locks and
hinges as well as part numbers, see opposite page.

Aluminium window anodized aluminium, acrylic glass 3 mm thick,
locks zinc die black powder coated, with gasketing



Width in mm	300←	→400	→500	→600	→700	→800	→900	→1000	
Height in mm									
300←	1200-U1-01 1/2	1200-U2-01 1/2	1200-U3-01 1/2	1200-U4-01 1/2	1200-U5-01 1/2				
→400	1200-U1-02 1/2	1200-U2-02 1/2	1200-U3-02 1/2	1200-U4-02 1/2	1200-U5-02 1/2				
→500	1200-U1-03 1/2	1200-U2-03 1/2	1200-U3-03 1/2	1200-U4-03 1/2	1200-U5-03 1/2				
→600	1200-U1-04 1/2	1200-U2-04 1/2	1200-U3-04 1/2	1200-U4-04 1/2	1200-U5-04 2/2				
→700	1200-U1-05 1/2	1200-U2-05 1/2	1200-U3-05 2/2	1200-U4-05 2/2	1200-U5-05 2/2	1200-U6-05 2/2			
→800	1200-U1-06 1/2	1200-U2-06 1/2	1200-U3-06 2/2	1200-U4-06 2/2	1200-U5-06 2/2	1200-U6-06 2/2			
→900	1200-U1-07 2/3	1200-U2-07 2/3	1200-U3-07 2/3	1200-U4-07 2/3	1200-U5-07 3/3	1200-U6-07 3/3	1200-U7-07 3/3		
→1000	1200-U1-08 2/3	1200-U2-08 2/3	1200-U3-08 2/3	1200-U4-08 2/3	1200-U5-08 3/3	1200-U6-08 3/3	1200-U7-08 3/3	1200-U8-08 3/3	
→1100		1200-U2-09 2/3	1200-U3-09 2/3	1200-U4-09 2/3	1200-U5-09 3/3	1200-U6-09 3/3	1200-U7-09 3/3	1200-U8-09 3/3	
→1200		1200-U2-10 2/3	1200-U3-10 2/3	1200-U4-10 2/3	1200-U5-10 3/3	1200-U6-10 3/3	1200-U7-10 3/3	1200-U8-10 3/3	
→1300			1200-U3-11 3/3	1200-U4-11 3/3	1200-U5-11 3/3	1200-U6-11 3/3	1200-U7-11 3/3	1200-U8-11 3/3	
→1400			1200-U3-12 3/3	1200-U4-12 3/3	1200-U5-12 3/3	1200-U6-12 3/3	1200-U7-12 3/3	1200-U8-12 3/3	
→1500			1200-U3-13 3/3	1200-U4-13 3/3	1200-U5-13 3/3	1200-U6-13 3/3	1200-U7-13 3/3	1200-U8-13 3/3	
→1600			1200-U3-14 3/3	1200-U4-14 3/3	1200-U5-14 3/3	1200-U6-14 3/3	1200-U7-14 3/3	1200-U8-14 3/3	
→1700				1200-U4-15 3/4	1200-U5-15 3/4	1200-U6-15 3/4	1200-U7-15 3/4	1200-U8-15 3/4	
→1800				1200-U4-16 3/4	1200-U5-16 3/4	1200-U6-16 3/4	1200-U7-16 3/4	1200-U8-16 3/4	
→1900					1200-U5-17 3/4	1200-U6-17 3/4	1200-U7-17 3/4	1200-U8-17 3/4	
→2000					1200-U5-18 3/4	1200-U6-18 3/4	1200-U7-18 3/4	1200-U8-18 3/4	

Opening angle 180°

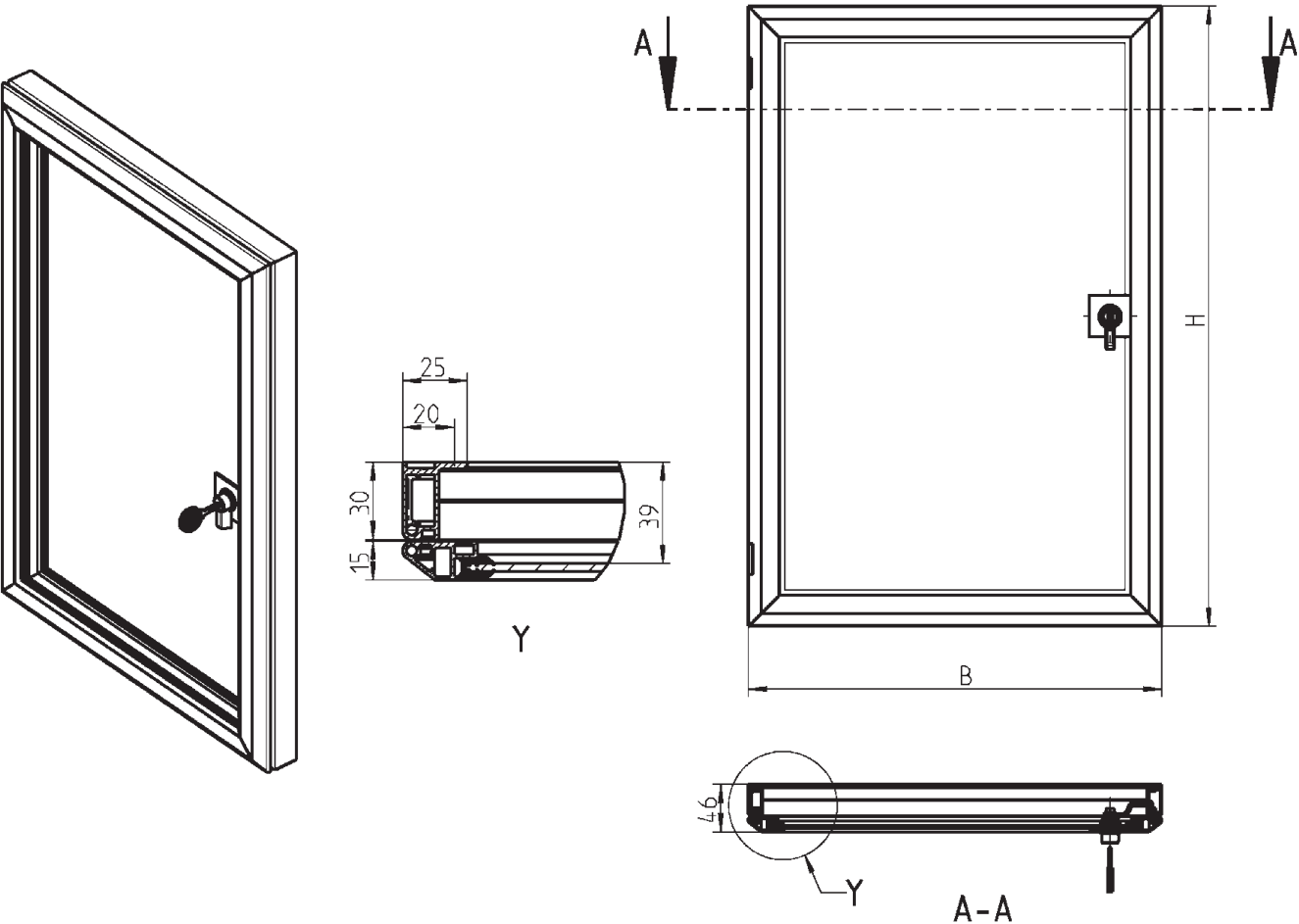
Attention:
Use only polycarbonate glass for
outdoor applications
(on request)

Can be assembled with gas
struts on request

Aluminium window

PROGRAM 1200

Aluminium window with 30 mm frame,
with front mounted wingknob



		Part number	
Height in mm	Width in mm	W	
		→700	→800
...	...	...	...
→900	...	1200-U55-07 3/3	1200-U56-07 3/3
→1000	...	1200-U55-08 3/3	1200-U56-08 3/3
		Number of hinges	
		Number of locks	

Order example:
The request is for a window with the dimensions:
W = 620 mm, H = 840 mm.
Part number 1200-U15-07 620x840

If more than one lock is fitted, only one will be
keyed 2233X. Keyed different on request.

For dimensions W and H, number of locks and
hinges as well as part numbers, see opposite page.

Aluminium window anodized aluminium, acrylic glass 3 mm thick,
locks zinc die black powder coated, with gasketing



Width in mm	300←	→400	→500	→600	→700	→800	→900	→1000	
Height in mm									
300←	1200-U11-01 1/2	1200-U12-01 1/2	1200-U13-01 1/2	1200-U14-01 1/2	1200-U15-01 1/2				
→400	1200-U11-02 1/2	1200-U12-02 1/2	1200-U13-02 1/2	1200-U14-02 1/2	1200-U15-02 1/2				
→500	1200-U11-03 1/2	1200-U12-03 1/2	1200-U13-03 1/2	1200-U14-03 1/2	1200-U15-03 1/2				
→600	1200-U11-04 1/2	1200-U12-04 1/2	1200-U13-04 1/2	1200-U14-04 1/2	1200-U15-04 2/2				
→700	1200-U11-05 1/2	1200-U12-05 1/2	1200-U13-05 2/2	1200-U14-05 2/2	1200-U15-05 2/2	1200-U16-05 2/2			
→800	1200-U11-06 1/2	1200-U12-06 1/2	1200-U13-06 2/2	1200-U14-06 2/2	1200-U15-06 2/2	1200-U16-06 2/2			
→900	1200-U11-07 2/3	1200-U12-07 2/3	1200-U13-07 2/3	1200-U14-07 2/3	1200-U15-07 3/3	1200-U16-07 3/3	1200-U17-07 3/3		
→1000	1200-U11-08 2/3	1200-U12-08 2/3	1200-U13-08 2/3	1200-U14-08 2/3	1200-U15-08 3/3	1200-U16-08 3/3	1200-U17-08 3/3	1200-U18-08 3/3	
→1100		1200-U12-09 2/3	1200-U13-09 2/3	1200-U14-09 2/3	1200-U15-09 3/3	1200-U16-09 3/3	1200-U17-09 3/3	1200-U18-09 3/3	
→1200		1200-U12-10 2/3	1200-U13-10 2/3	1200-U14-10 2/3	1200-U15-10 3/3	1200-U16-10 3/3	1200-U17-10 3/3	1200-U18-10 3/3	
→1300			1200-U13-11 3/3	1200-U14-11 3/3	1200-U15-11 3/3	1200-U16-11 3/3	1200-U17-11 3/3	1200-U18-11 3/3	
→1400			1200-U13-12 3/3	1200-U14-12 3/3	1200-U15-12 3/3	1200-U16-12 3/3	1200-U17-12 3/3	1200-U18-12 3/3	
→1500			1200-U13-13 3/3	1200-U14-13 3/3	1200-U15-13 3/3	1200-U16-13 3/3	1200-U17-13 3/3	1200-U18-13 3/3	
→1600			1200-U13-14 3/3	1200-U14-14 3/3	1200-U15-14 3/3	1200-U16-14 3/3	1200-U17-14 3/3	1200-U18-14 3/3	
→1700				1200-U14-15 3/4	1200-U15-15 3/4	1200-U16-15 3/4	1200-U17-15 3/4	1200-U18-15 3/4	
→1800				1200-U14-16 3/4	1200-U15-16 3/4	1200-U16-16 3/4	1200-U17-16 3/4	1200-U18-16 3/4	
→1900					1200-U15-17 3/4	1200-U16-17 3/4	1200-U17-17 3/4	1200-U18-17 3/4	
→2000					1200-U15-18 3/4	1200-U16-18 3/4	1200-U17-18 3/4	1200-U18-18 3/4	

Opening angle 140°

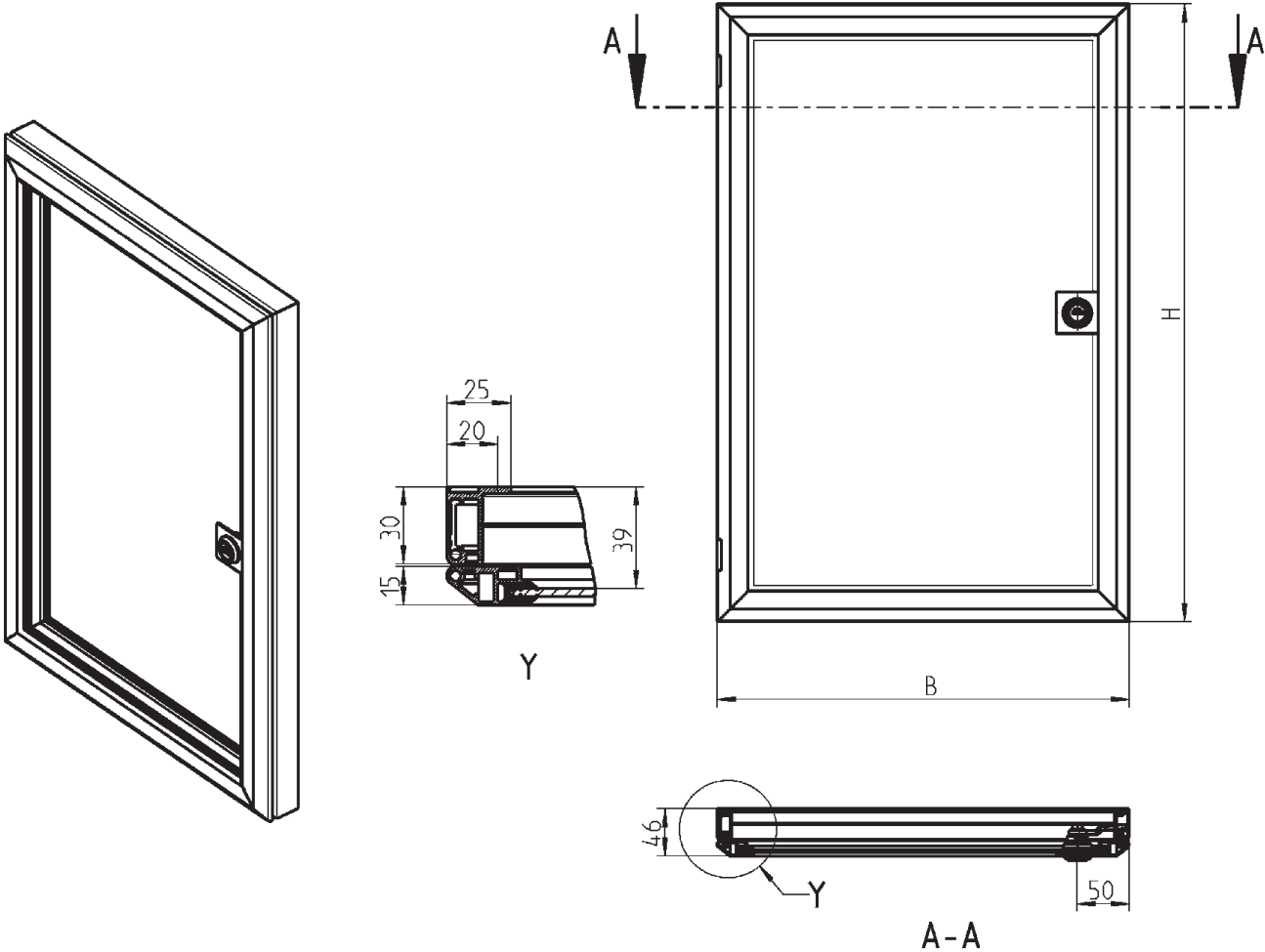
Attention:
Use only polycarbonate glass for
outdoor applications
(on request)

Can be assembled with gas
struts on request

Aluminium window

PROGRAM 1200

Aluminium window with 30 mm frame,
with front mounted cylinder lock



Part number		W	
Height in mm	Width in mm	→700	→800
...	...	...	...
→900	...	1200-U55-07 3/3	1200-U56-07 3/3
→1000	...	1200-U55-08 3/3	1200-U56-08 3/3

Number of locks

Number of hinges

Order example:
The request is for a window with the dimensions:
W = 620 mm, H = 840 mm.
Part number 1200-U25-07 620x840

Lock/locks will be keyed EK333.
Keyed different on request.

For dimensions W and H, number of locks and
hinges as well as part numbers, see opposite page.

Aluminium window anodized aluminium, acrylic glass 3 mm thick,
locks zinc die black powder coated, with gasketing



Width in mm	300←	→400	→500	→600	→700	→800	→900	→1000	
Height in mm									
300←	1200-U21-01 1/2	1200-U22-01 1/2	1200-U23-01 1/2	1200-U24-01 1/2	1200-U25-01 1/2				
→400	1200-U21-02 1/2	1200-U22-02 1/2	1200-U23-02 1/2	1200-U24-02 1/2	1200-U25-02 1/2				
→500	1200-U21-03 1/2	1200-U22-03 1/2	1200-U23-03 1/2	1200-U24-03 1/2	1200-U25-03 1/2				
→600	1200-U21-04 1/2	1200-U22-04 1/2	1200-U23-04 1/2	1200-U24-04 1/2	1200-U25-04 2/2				
→700	1200-U21-05 1/2	1200-U22-05 1/2	1200-U23-05 2/2	1200-U24-05 2/2	1200-U25-05 2/2	1200-U26-05 2/2			
→800	1200-U21-06 1/2	1200-U22-06 1/2	1200-U23-06 2/2	1200-U24-06 2/2	1200-U25-06 2/2	1200-U26-06 2/2			
→900	1200-U21-07 2/3	1200-U22-07 2/3	1200-U23-07 2/3	1200-U24-07 2/3	1200-U25-07 3/3	1200-U26-07 3/3	1200-U27-07 3/3		
→1000	1200-U21-08 2/3	1200-U22-08 2/3	1200-U23-08 2/3	1200-U24-08 2/3	1200-U25-08 3/3	1200-U26-08 3/3	1200-U27-08 3/3	1200-U28-08 3/3	
→1100		1200-U22-09 2/3	1200-U23-09 2/3	1200-U24-09 2/3	1200-U25-09 3/3	1200-U26-09 3/3	1200-U27-09 3/3	1200-U28-09 3/3	
→1200		1200-U22-10 2/3	1200-U23-10 2/3	1200-U24-10 2/3	1200-U25-10 3/3	1200-U26-10 3/3	1200-U27-10 3/3	1200-U28-10 3/3	
→1300			1200-U23-11 3/3	1200-U24-11 3/3	1200-U25-11 3/3	1200-U26-11 3/3	1200-U27-11 3/3	1200-U28-11 3/3	
→1400			1200-U23-12 3/3	1200-U24-12 3/3	1200-U25-12 3/3	1200-U26-12 3/3	1200-U27-12 3/3	1200-U28-12 3/3	
→1500			1200-U23-13 3/3	1200-U24-13 3/3	1200-U25-13 3/3	1200-U26-13 3/3	1200-U27-13 3/3	1200-U28-13 3/3	
→1600			1200-U23-14 3/3	1200-U24-14 3/3	1200-U25-14 3/3	1200-U26-14 3/3	1200-U27-14 3/3	1200-U28-14 3/3	
→1700				1200-U24-15 3/4	1200-U25-15 3/4	1200-U26-15 3/4	1200-U27-15 3/4	1200-U28-15 3/4	
→1800				1200-U24-16 3/4	1200-U25-16 3/4	1200-U26-16 3/4	1200-U27-16 3/4	1200-U28-16 3/4	
→1900					1200-U25-17 3/4	1200-U26-17 3/4	1200-U27-17 3/4	1200-U28-17 3/4	
→2000					1200-U25-18 3/4	1200-U26-18 3/4	1200-U27-18 3/4	1200-U28-18 3/4	

Opening angle 180°

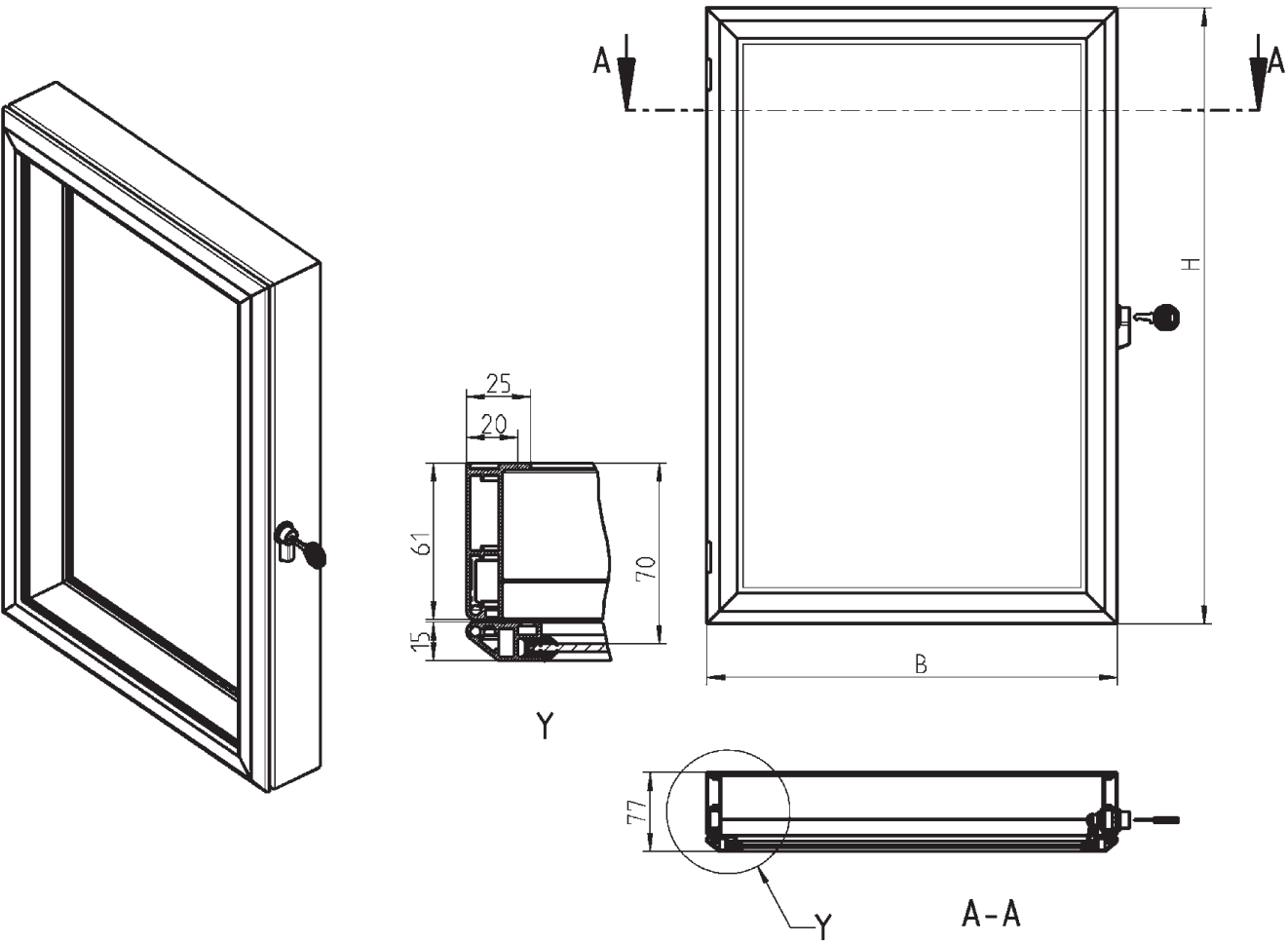
Attention:
Use only polycarbonate glass for
outdoor applications
(on request)

Can be assembled with gas
struts on request

Aluminium window

PROGRAM 1200

Aluminium window with 61 mm frame,
with side-mounted wingknob



Part number		W	
Height in mm	Width in mm	→700	→800
...	...	...	...
→900	...	1200-U55-07 3/3	1200-U56-07 3/3
→1000	...	1200-U55-08 3/3	1200-U56-08 3/3

Number of locks

Number of hinges

Order example:
The request is for a window with the dimensions:
W = 620 mm, H = 840 mm.
Part number 1200-U35-07 620x840

If more than one lock is fitted, only one will be
keyed 2233X. Keyed different on request.

For dimensions W and H, number of locks and
hinges as well as part numbers, see opposite page.

Aluminium window anodized aluminium, acrylic glass 3 mm thick,
locks zinc die black powder coated, with gasketing



Width in mm	300←	→400	→500	→600	→700	→800	→900	→1000	
Height in mm									
300←	1200-U31-01 1/2	1200-U32-01 1/2	1200-U33-01 1/2	1200-U34-01 1/2	1200-U35-01 1/2				
→400	1200-U31-02 1/2	1200-U32-02 1/2	1200-U33-02 1/2	1200-U34-02 1/2	1200-U35-02 1/2				
→500	1200-U31-03 1/2	1200-U32-03 1/2	1200-U33-03 1/2	1200-U34-03 1/2	1200-U35-03 1/2				
→600	1200-U31-04 1/2	1200-U32-04 1/2	1200-U33-04 1/2	1200-U34-04 1/2	1200-U35-04 2/2				
→700	1200-U31-05 1/2	1200-U32-05 1/2	1200-U33-05 2/2	1200-U34-05 2/2	1200-U35-05 2/2	1200-U36-05 2/2			
→800	1200-U31-06 1/2	1200-U32-06 1/2	1200-U33-06 2/2	1200-U34-06 2/2	1200-U35-06 2/2	1200-U36-06 2/2			
→900	1200-U31-07 2/3	1200-U32-07 2/3	1200-U33-07 2/3	1200-U34-07 2/3	1200-U35-07 3/3	1200-U36-07 3/3	1200-U37-07 3/3		
→1000	1200-U31-08 2/3	1200-U32-08 2/3	1200-U33-08 2/3	1200-U34-08 2/3	1200-U35-08 3/3	1200-U36-08 3/3	1200-U37-08 3/3	1200-U38-08 3/3	
→1100		1200-U32-09 2/3	1200-U33-09 2/3	1200-U34-09 2/3	1200-U35-09 3/3	1200-U36-09 3/3	1200-U37-09 3/3	1200-U38-09 3/3	
→1200		1200-U32-10 2/3	1200-U33-10 2/3	1200-U34-10 2/3	1200-U35-10 3/3	1200-U36-10 3/3	1200-U37-10 3/3	1200-U38-10 3/3	
→1300			1200-U33-11 3/3	1200-U34-11 3/3	1200-U35-11 3/3	1200-U36-11 3/3	1200-U37-11 3/3	1200-U38-11 3/3	
→1400			1200-U33-12 3/3	1200-U34-12 3/3	1200-U35-12 3/3	1200-U36-12 3/3	1200-U37-12 3/3	1200-U38-12 3/3	
→1500			1200-U33-13 3/3	1200-U34-13 3/3	1200-U35-13 3/3	1200-U36-13 3/3	1200-U37-13 3/3	1200-U38-13 3/3	
→1600			1200-U33-14 3/3	1200-U34-14 3/3	1200-U35-14 3/3	1200-U36-14 3/3	1200-U37-14 3/3	1200-U38-14 3/3	
→1700				1200-U34-15 3/4	1200-U35-15 3/4	1200-U36-15 3/4	1200-U37-15 3/4	1200-U38-15 3/4	
→1800				1200-U34-16 3/4	1200-U35-16 3/4	1200-U36-16 3/4	1200-U37-16 3/4	1200-U38-16 3/4	
→1900					1200-U35-17 3/4	1200-U36-17 3/4	1200-U37-17 3/4	1200-U38-17 3/4	
→2000					1200-U35-18 3/4	1200-U36-18 3/4	1200-U37-18 3/4	1200-U38-18 3/4	

Opening angle 180°

Attention:
Use only polycarbonate glass for
outdoor applications
(on request)

Can be assembled with gas
struts on request

1 Quarter turns

2 Rod controls

3 Locking
systems

4 Hinges

5 Gasketing

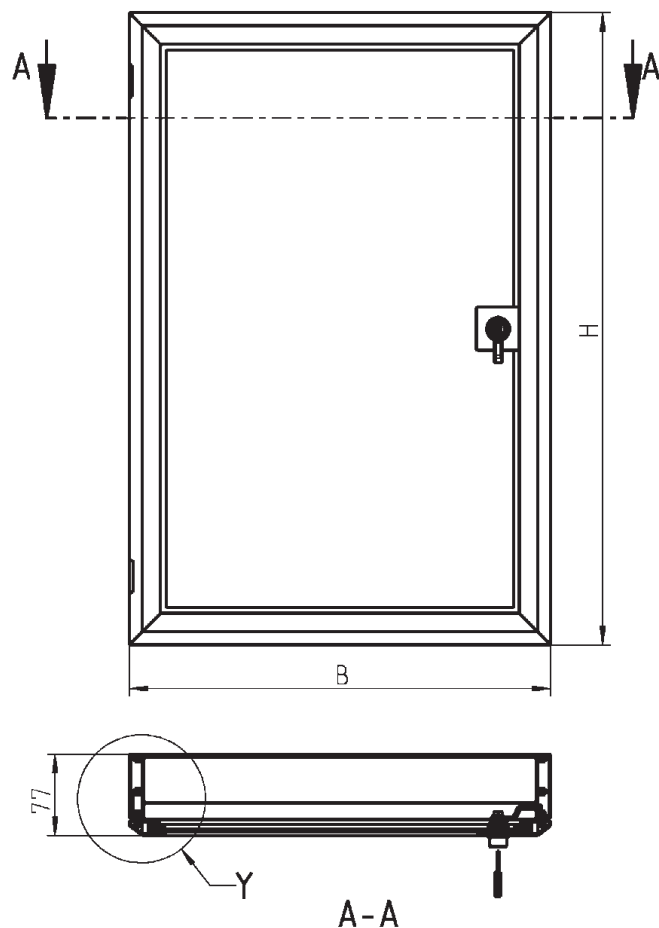
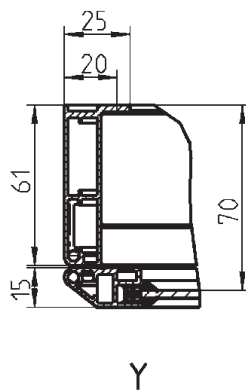
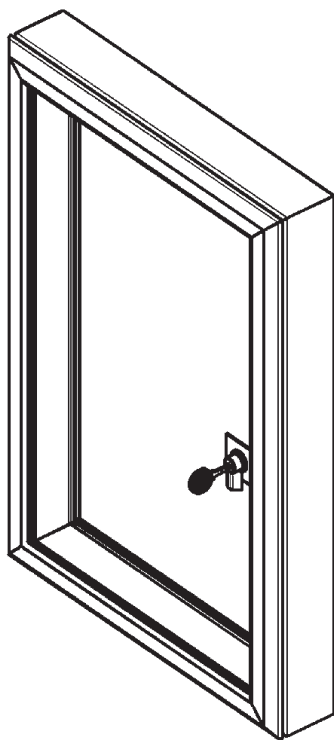
6 Handles

7 Aluminium
windows

Aluminium window

PROGRAM 1200

Aluminium window with 61 mm frame,
with front-mounted wingknob



		Part number	
Height in mm	Width in mm	W	
		→700	→800
...	...	...	...
→900	/.	1200-U55-07 3/3	1200-U56-07 3/3
→1000	/.	1200-U55-08 3/3	1200-U56-08 3/3
Number of locks		Number of hinges	

Order example:
The request is for a window with the dimensions:
W = 620 mm, H = 840 mm.
Part number 1200-U45-07 620x840

If more than one lock is fitted, only one will be
keyed 2233X. Keyed different on request.

For dimensions W and H, number of locks and
hinges as well as part numbers, see opposite page.

Aluminium window anodized aluminium, acrylic glass 3 mm thick,
locks zinc die black powder coated, with gasketing



Width in mm	300←	→400	→500	→600	→700	→800	→900	→1000	
Height in mm									
300←	1200-U41-01 1/2	1200-U42-01 1/2	1200-U43-01 1/2	1200-U44-01 1/2	1200-U45-01 1/2				
→400	1200-U41-02 1/2	1200-U42-02 1/2	1200-U43-02 1/2	1200-U44-02 1/2	1200-U45-02 1/2				
→500	1200-U41-03 1/2	1200-U42-03 1/2	1200-U43-03 1/2	1200-U44-03 1/2	1200-U45-03 1/2				
→600	1200-U41-04 1/2	1200-U42-04 1/2	1200-U43-04 1/2	1200-U44-04 1/2	1200-U45-04 2/2				
→700	1200-U41-05 1/2	1200-U42-05 1/2	1200-U43-05 2/2	1200-U44-05 2/2	1200-U45-05 2/2	1200-U46-05 2/2			
→800	1200-U41-06 1/2	1200-U42-06 1/2	1200-U43-06 2/2	1200-U44-06 2/2	1200-U45-06 2/2	1200-U46-06 2/2			
→900	1200-U41-07 2/3	1200-U42-07 2/3	1200-U43-07 2/3	1200-U44-07 2/3	1200-U45-07 3/3	1200-U46-07 3/3	1200-U47-07 3/3		
→1000	1200-U41-08 2/3	1200-U42-08 2/3	1200-U43-08 2/3	1200-U44-08 2/3	1200-U45-08 3/3	1200-U46-08 3/3	1200-U47-08 3/3	1200-U48-08 3/3	
→1100		1200-U42-09 2/3	1200-U43-09 2/3	1200-U44-09 2/3	1200-U45-09 3/3	1200-U46-09 3/3	1200-U47-09 3/3	1200-U48-09 3/3	
→1200		1200-U42-10 2/3	1200-U43-10 2/3	1200-U44-10 2/3	1200-U45-10 3/3	1200-U46-10 3/3	1200-U47-10 3/3	1200-U48-10 3/3	
→1300			1200-U43-11 3/3	1200-U44-11 3/3	1200-U45-11 3/3	1200-U46-11 3/3	1200-U47-11 3/3	1200-U48-11 3/3	
→1400			1200-U43-12 3/3	1200-U44-12 3/3	1200-U45-12 3/3	1200-U46-12 3/3	1200-U47-12 3/3	1200-U48-12 3/3	
→1500			1200-U43-13 3/3	1200-U44-13 3/3	1200-U45-13 3/3	1200-U46-13 3/3	1200-U47-13 3/3	1200-U48-13 3/3	
→1600			1200-U43-14 3/3	1200-U44-14 3/3	1200-U45-14 3/3	1200-U46-14 3/3	1200-U47-14 3/3	1200-U48-14 3/3	
→1700				1200-U44-15 3/4	1200-U45-15 3/4	1200-U46-15 3/4	1200-U47-15 3/4	1200-U48-15 3/4	
→1800				1200-U44-16 3/4	1200-U45-16 3/4	1200-U46-16 3/4	1200-U47-16 3/4	1200-U48-16 3/4	
→1900					1200-U45-17 3/4	1200-U46-17 3/4	1200-U47-17 3/4	1200-U48-17 3/4	
→2000					1200-U45-18 3/4	1200-U46-18 3/4	1200-U47-18 3/4	1200-U48-18 3/4	

Opening angle 180°

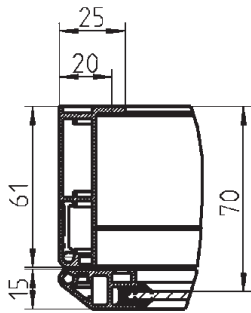
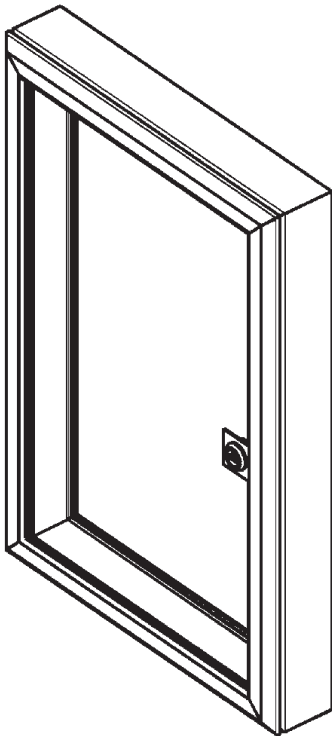
Attention:
Use only polycarbonate glass for
outdoor applications
(on request)

Can be assembled with gas
struts on request

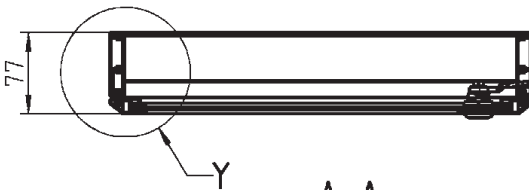
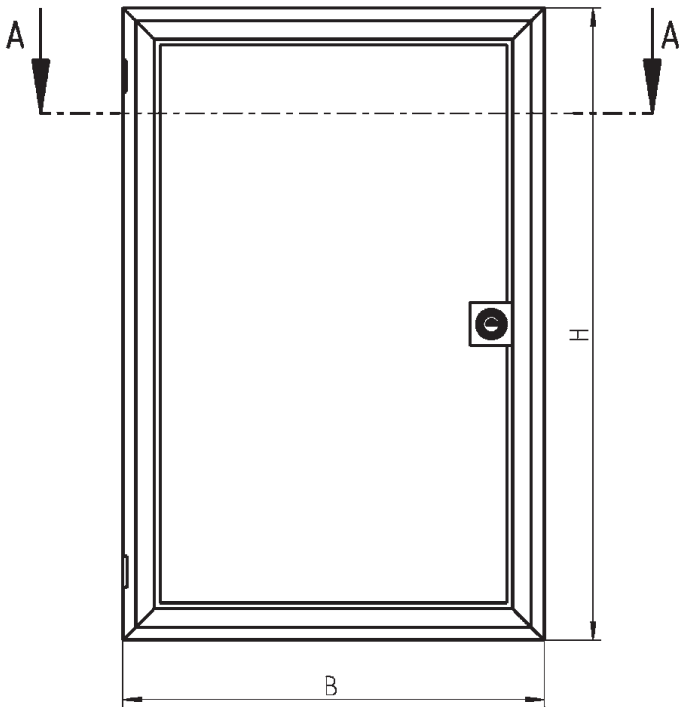
Aluminium window

PROGRAM 1200

Aluminium window with 61 mm frame,
with front-mounted cylinder lock



Y



A-A

Part number		W	
Height in mm	Width in mm	→700	→800
→900		1200-U55-07 3/3	1200-U56-07 3/3
→1000		1200-U55-08 3/3	1200-U56-08 3/3

Number of locks

Number of hinges

Order example:
The request is for a window with the dimensions:
W = 620 mm, H = 840 mm.
Part number 1200-U55-07 620x840

Lock/locks will be keyed EK333.
Keyed different on request.

For dimensions W and H, number of locks and
hinges as well as part numbers, see opposite page.

Aluminium window anodized aluminium, acrylic glass 3 mm thick,
locks zinc die black powder coated, with gasketing



Width in mm	300←	→400	→500	→600	→700	→800	→900	→1000	
Height in mm									
300←	1200-U51-01 1/2	1200-U52-01 1/2	1200-U53-01 1/2	1200-U54-01 1/2	1200-U55-01 1/2				
→400	1200-U51-02 1/2	1200-U52-02 1/2	1200-U53-02 1/2	1200-U54-02 1/2	1200-U55-02 1/2				
→500	1200-U51-03 1/2	1200-U52-03 1/2	1200-U53-03 1/2	1200-U54-03 1/2	1200-U55-03 1/2				
→600	1200-U51-04 1/2	1200-U52-04 1/2	1200-U53-04 1/2	1200-U54-04 1/2	1200-U55-04 2/2				
→700	1200-U51-05 1/2	1200-U52-05 1/2	1200-U53-05 2/2	1200-U54-05 2/2	1200-U55-05 2/2	1200-U56-05 2/2			
→800	1200-U51-06 1/2	1200-U52-06 1/2	1200-U53-06 2/2	1200-U54-06 2/2	1200-U55-06 2/2	1200-U56-06 2/2			
→900	1200-U51-07 2/3	1200-U52-07 2/3	1200-U53-07 2/3	1200-U54-07 2/3	1200-U55-07 3/3	1200-U56-07 3/3	1200-U57-07 3/3		
→1000	1200-U51-08 2/3	1200-U52-08 2/3	1200-U53-08 2/3	1200-U54-08 2/3	1200-U55-08 3/3	1200-U56-08 3/3	1200-U57-08 3/3	1200-U58-08 3/3	
→1100		1200-U52-09 2/3	1200-U53-09 2/3	1200-U54-09 2/3	1200-U55-09 3/3	1200-U56-09 3/3	1200-U57-09 3/3	1200-U58-09 3/3	
→1200		1200-U52-10 2/3	1200-U53-10 2/3	1200-U54-10 2/3	1200-U55-10 3/3	1200-U56-10 3/3	1200-U57-10 3/3	1200-U58-10 3/3	
→1300			1200-U53-11 3/3	1200-U54-11 3/3	1200-U55-11 3/3	1200-U56-11 3/3	1200-U57-11 3/3	1200-U58-11 3/3	
→1400			1200-U53-12 3/3	1200-U54-12 3/3	1200-U55-12 3/3	1200-U56-12 3/3	1200-U57-12 3/3	1200-U58-12 3/3	
→1500			1200-U53-13 3/3	1200-U54-13 3/3	1200-U55-13 3/3	1200-U56-13 3/3	1200-U57-13 3/3	1200-U58-13 3/3	
→1600			1200-U53-14 3/3	1200-U54-14 3/3	1200-U55-14 3/3	1200-U56-14 3/3	1200-U57-14 3/3	1200-U58-14 3/3	
→1700				1200-U54-15 3/4	1200-U55-15 3/4	1200-U56-15 3/4	1200-U57-15 3/4	1200-U58-15 3/4	
→1800				1200-U54-16 3/4	1200-U55-16 3/4	1200-U56-16 3/4	1200-U57-16 3/4	1200-U58-16 3/4	
→1900					1200-U55-17 3/4	1200-U56-17 3/4	1200-U57-17 3/4	1200-U58-17 3/4	
→2000					1200-U55-18 3/4	1200-U56-18 3/4	1200-U57-18 3/4	1200-U58-18 3/4	

Opening angle 180°

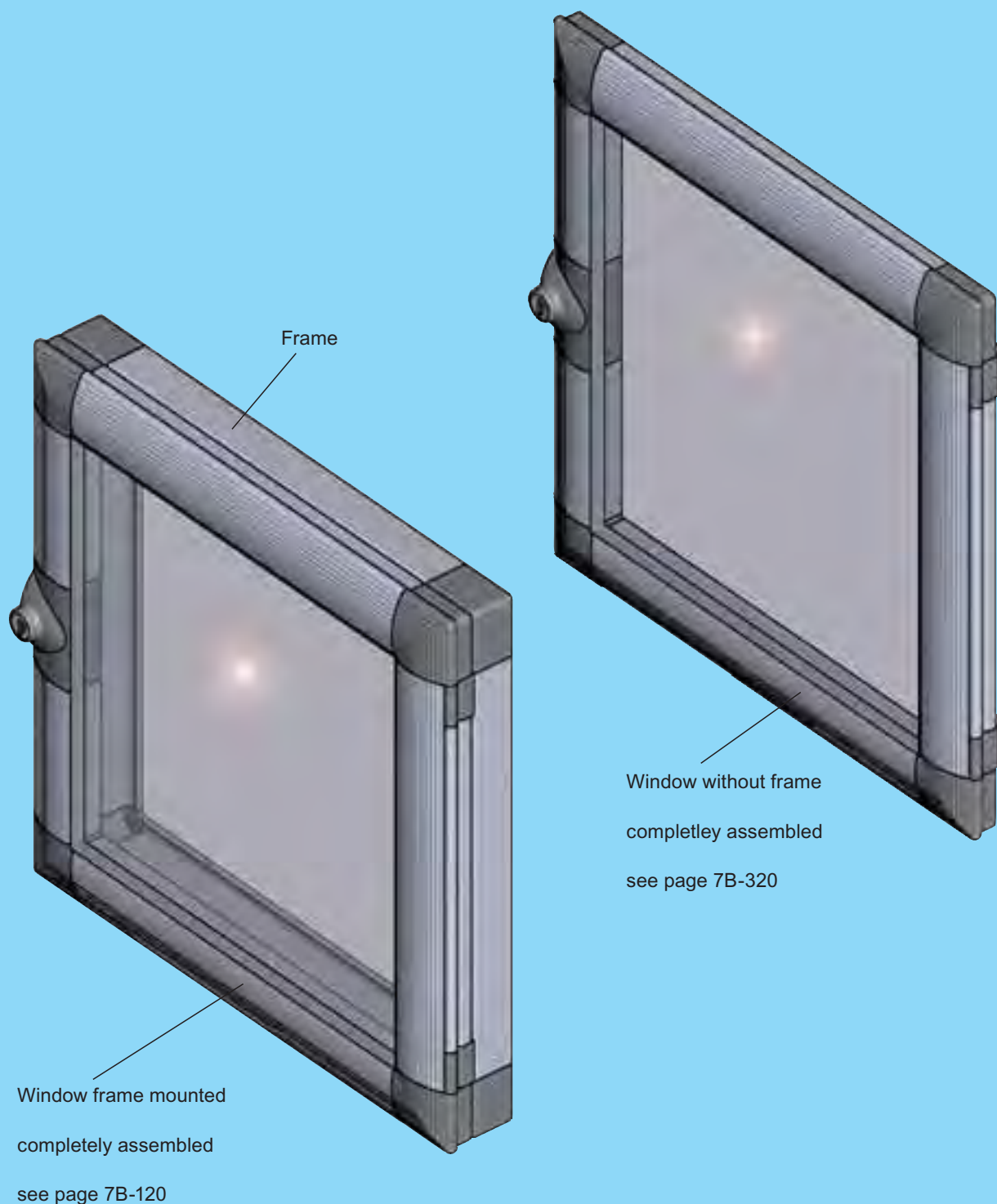
Attention:
Use only polycarbonate glass for
outdoor applications
(on request)

Can be assembled with gas
struts on request

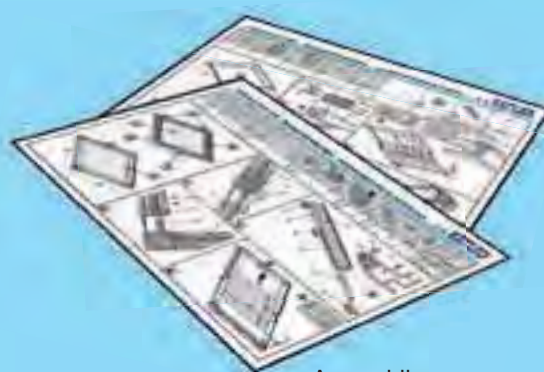
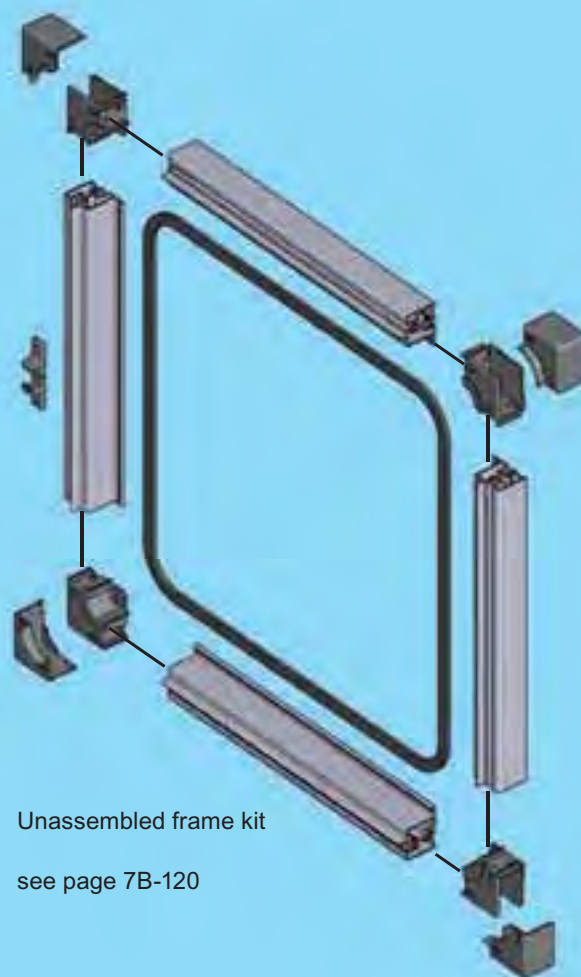
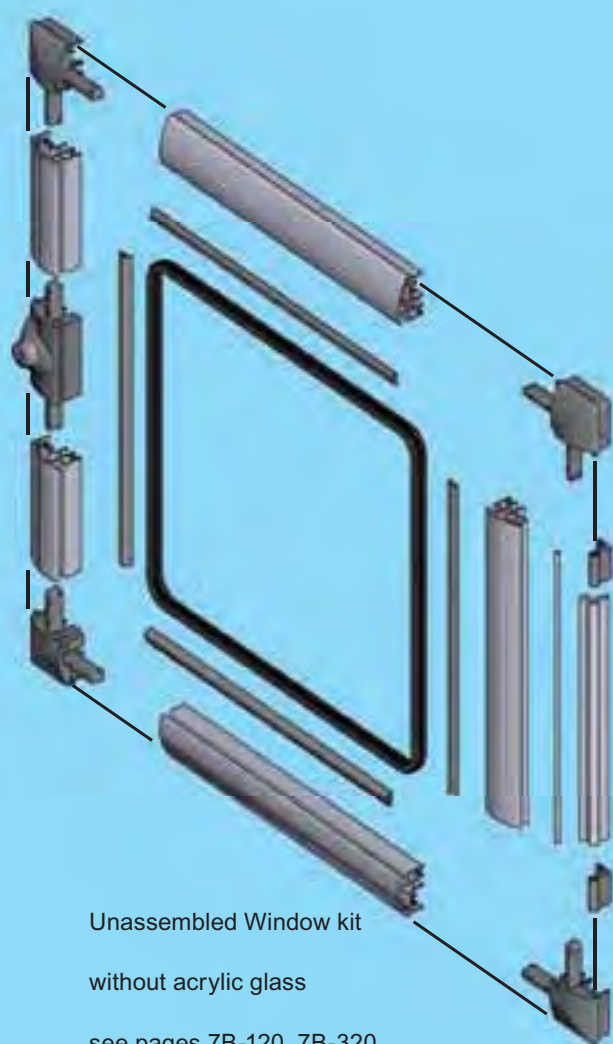
EMKA PROflex

Aluminium window - with or without a frame

Program 1210



Aluminium window kit for self assembly





Available fully assembled
or as a kit



Opening angle 180°

IP 54 on request

Attention:
Please specify locking option
separately!
(see page 7B-220)

Information:

Thread M5 on rear side for
mounting. Alternative mounting
can be on front side.
(see page 7B-420)

Polycarbonate glass (outdoor
application) or safety glass on
request.

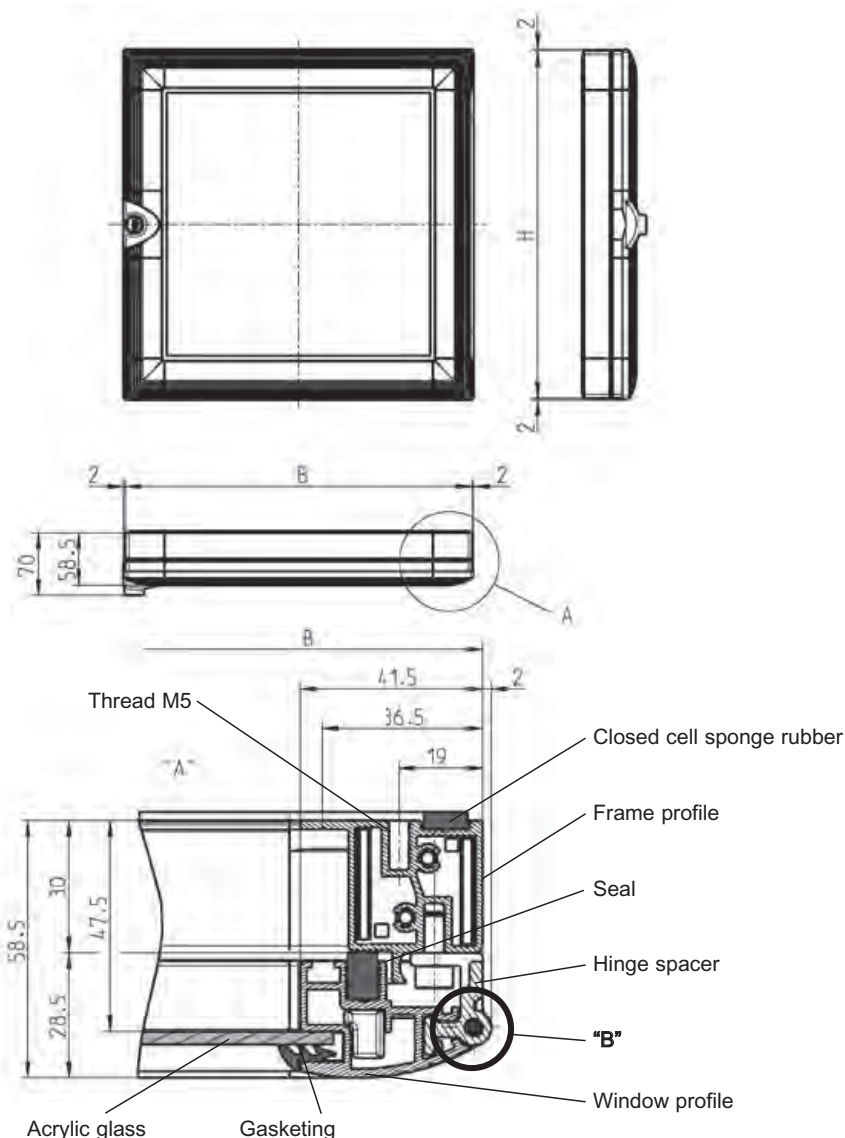
Window outer dimensions
Height from 300 to 2000 mm
Width from 200 to 1000 mm
**Height - Side with hinge and lock
respectively.**

Rear panels of 3.5 to 4 mm are
possible!
Easy push in assembly.
Rear panel size
H minus 62 mm and
W minus 62 mm.

Further parts see page
– Locking 7B-220

Mounting dimensions
see page 7B-420

Further ordering details
see page 7B-520



Order example:

Anodized aluminium window, corners and hinges zinc die black powder coated, caps polyamide black, hinge pin stainless steel, screws m. s. zinc plated, acrylic glass 3 mm, incl. gasketing and lock (please specify lock separately)

Please order:

Version 1: Aluminium window assembled
1210-U (Height) - (Weidth) = 1210-U 750-520

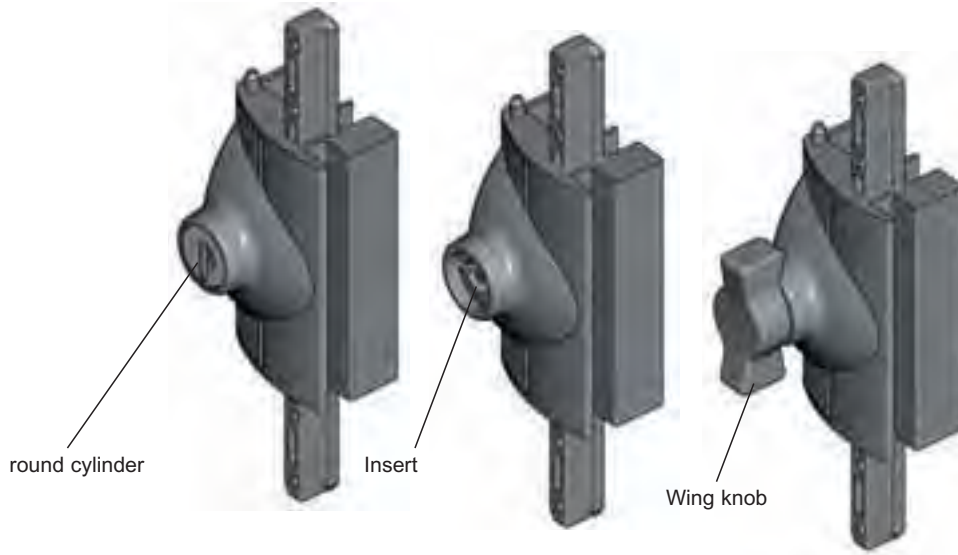
Version 2: Aluminium window kit for self assembly
1210-X (Height) - (Weidth) = 1210-X 750-520

Anodized aluminium window, corners and hinges zinc die black powder coated, caps polyamide black, hinge pin stainless steel, screws m. s. zinc plated, acrylic glass 3 mm, incl. gasketing and lock (please specify lock separately)

Aluminium window assembled, incl. acrylic glass	1210-U - (see order example)
Aluminium window kit for self assembly, without acrylic glass including assembly instructions (Size calculation for 3 mm acrylic glass: H minus 65 mm and W minus 65 mm)	1210-X - (see order example)

Aluminium window: Lock 1215

PROGRAM 1210 EMKA PROflex



Conversion details

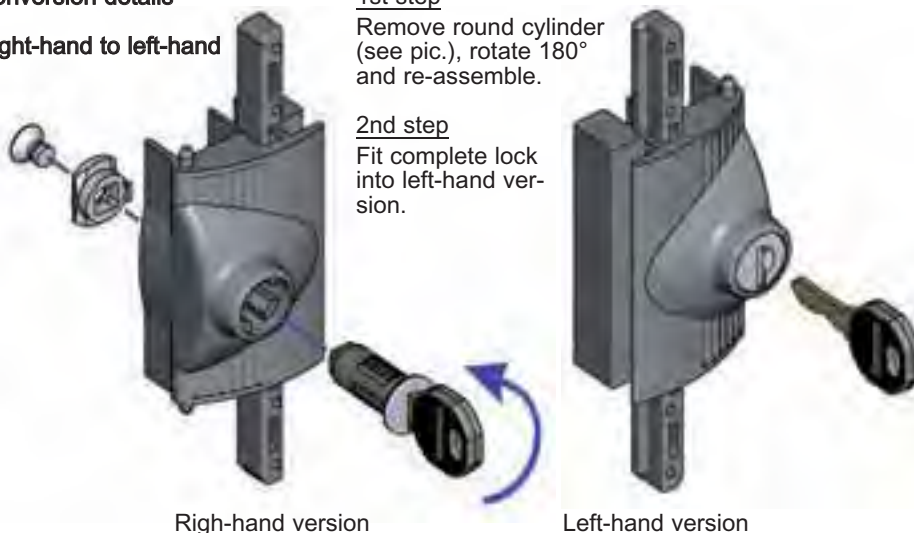
Right-hand to left-hand

1st step

Remove round cylinder (see pic.), rotate 180° and re-assemble.

2nd step

Fit complete lock into left-hand version.



Ordering instructions:

Please only order one kind of lock:
the number of locks (1-3) depends on the size of the window!

Aluminium window lock polyamide black, round cylinder with stainless steel dust cap and cover or insert zinc die black powder coated, cam zinc die, catch zinc die black, screws m. s. zinc plated, each round cylinder has one silver steel key with polyamide grip black

keyed EK 333	1215-U1
keyed different	1215-U1-V

Inserts

Square 6	1215-U2-U322
Square 7	1215-U2-U323
Square 8	1215-U2-U324
Triangular 7	1215-U2-U325
Triangular 8	1215-U2-U326
Double bit 3	1215-U2-U327
Double bit 5	1215-U2-U328
Slot 2 x 4	1215-U2-U329
Slot 2 x 4 coinproof	1215-U2-U739
Wing knob	1215-U2-U78

Note:

Please order aluminium window seperately!

Further parts see page

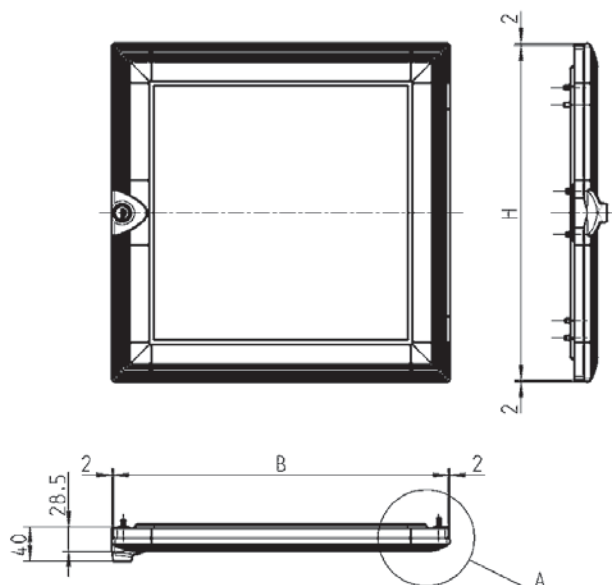
- Aluminium windows 7B-120
- Aluminium window without frame 7B-320

Further ordering details

see page 7B-520



Available fully assembled
or as a kit



Opening angle 180°

IP 54 on request

Attention:
Please specify locking option
separately!
(see page 7B-220)

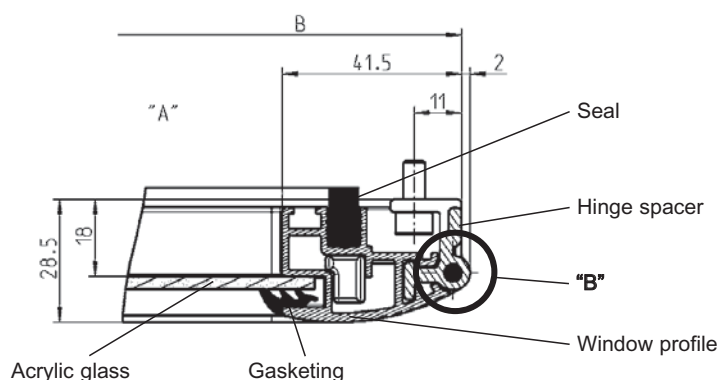
Information:

Mounting options
see page 7B-420

Polycarbonate glass (outdoor
application) or safety glass on
request.

Window outer dimensions
Height from 300 to 2000 mm
Width from 200 to 1000 mm
**Height - Side with hinge and
lock respectively.**

Frame version on page 7C-120
suitable for retrofit!



Order example:

The request is for a window without frame with dimensions H = 750 mm and W = 520 mm.
Attention: Please note 2 mm projection of window on all sides (see detail "B")!

Please order:

Version 1: Aluminium window assembled
1220-U (Height) - (Weidth) = 1220-U 750-520

Version 2: Aluminium window kit for self assembly
1220-X (Height) - (Weidth) = 1220-X 750-520

Further parts see page
– Locking 7B-220

Mounting dimensions
see page 7B-420

Further ordering details
see page 7B-520

Anodized aluminium window, corners and hinges zinc die black powder coated,
hinge pin stainless steel, screws m. s. zinc plated, acrylic glass 3 mm,
incl. gasketing and lock (please specify lock separately)

Aluminium window assembled, incl. acrylic glass

1220-U -
(see order example)

Aluminium window kit for self assembly without acrylic glass
including assembly instructions (see order example)
(Size calculation for 3 mm acrylic glass:
H minus 65 mm and W minus 65 mm)

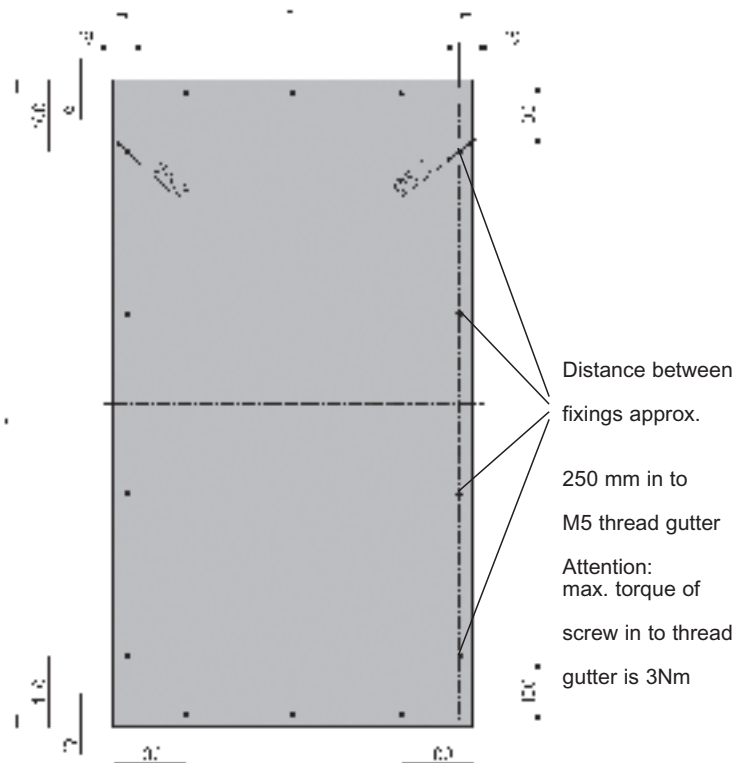
1220-X -
(see order example)

Mounting specification for 1210 and 1220

PROGRAM 1210 EMKA PROflex

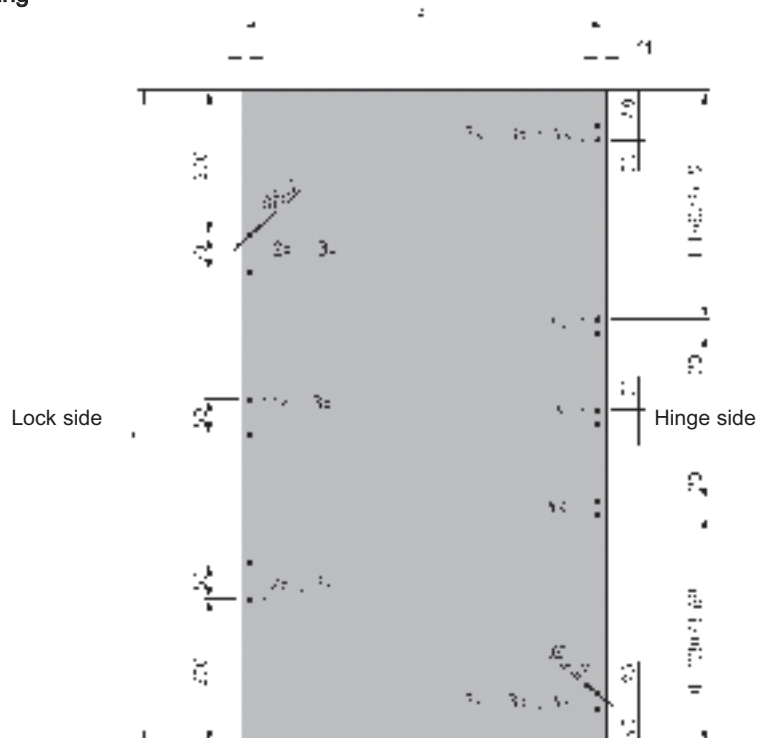
Mounting specification for aluminium window with frame 1210:
Rear fixing.

More fixing points added depending on size
of window and according to client requests.



Fixing dimensions for window with frame

Mounting specification for aluminium window without frame 1210:
Front fixing



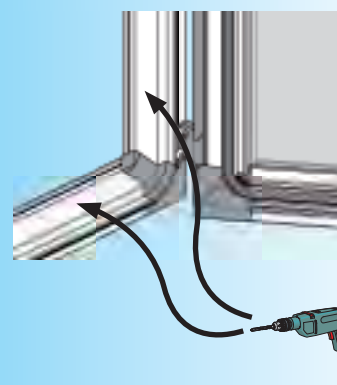
Fixing dimensions for window without frame

Rear fixing.



see mounting specification

Front fixing



Fixing in accordance to customer requests

Note:

Mounting point references

2x, 3x, 4x relate to the
number of hinges and locks.

Further parts see page

- Aluminium window 7B-120
- Aluminium window without frame 7B-320



Window with frame 1210
Can be assembled with gas struts upon request.

Order example:

The request is for an aluminium window, frame mounted and assembled with the dimensions H = 750 mm and W = 520 mm with lock "3mm double-bit insert".

Please order:

One aluminium window 1210-U(height) - (width) = 1210-U 750-520 + 1215-U2-U327

Number of locks and hinges:

The number of locks and hinges depends on the window dimensions.

To find the exact number then round the dimensions up to the next hundred mm

section. The quantity can then be found by referencing the table below
Use the same principle with the price list.

Explanation of locks and hinges specification:

Aluminium window frame mounted example:

Part number 1210-U 750-520 => 800-600 => 1 lock and 2 hinges

Aluminium window without frame example:

Part number 1220-U 750-520 => 800-600 => 1 lock and 2 hinges

IP 54 on request

Height in mm \ Width in mm	→300	→400	→500	→600	
→400	1/2	1/2	1/2	1/2	
→500	1/2	1/2	1/2	1/2	
→600	1/2	1/2	1/2	1/2	
→700	1/2	1/2	1/2	1/2	
→800	1/2	1/2	1/2	1/2	
....					

Number of locks

Number of hinges

Height in mm \ Width in mm	→300	→400	→500	→600	→700	→800	→900	→1000	
→400	1/2	1/2	1/2	1/2	1/2	req.	req.	req.	
→500	1/2	1/2	1/2	1/2	1/2	req.	req.	req.	
→600	1/2	1/2	1/2	1/2	1/2	req.	req.	req.	
→700	1/2	1/2	1/2	1/2	1/2	1/2	req.	req.	
→800	1/2	1/2	1/2	1/2	1/2	1/2	req.	req.	
→900	2/3	2/3	2/3	2/3	2/3	2/3	2/3	req.	
→1000	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	
→1100	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	
→1200	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	
→1300	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	
→1400	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	
→1500	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
→1600	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
→1700	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
→1800	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
→1900	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
→2000	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	

Further parts see page

– Aluminium window 7B-120
– Locking 7B-220
– Aluminium window 7B-320

req. = on request

7B-520

(7C-520)

Aluminium doors

Program 1300



Info

1 Quarter turns

2 Rod controls

3 Locking
systems

4 Hinges

5 Gasketing

6 Handles

7 Aluminium
windows



Manufacturing sizes (H x W):
Height from 400 to 2000
Width from 400 to 1000

Opening angle 180°
for single cabinets.

Opening angle < 120°
for in-line cabinets.

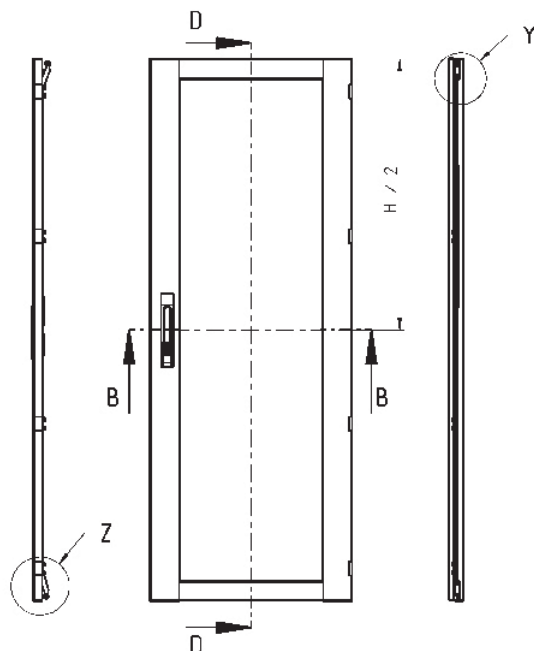
Further parts see page

– Locking set

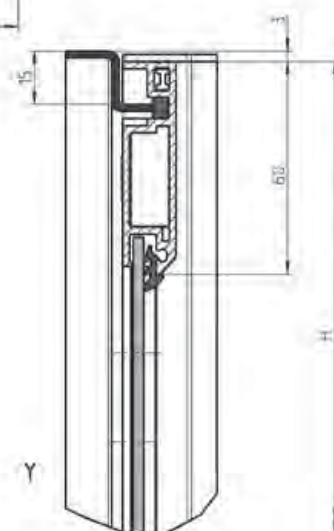
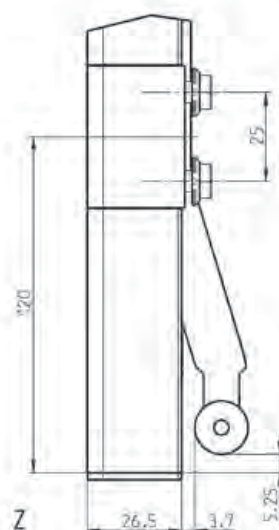
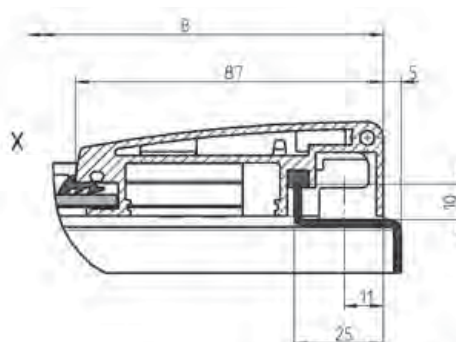
3XA-120
3XA-240



B-B



D-D



Complete door anodized aluminium, acrylic glass, swinghandle 1180 polyamide black, hinges and edge connectors zinc die black p.c., cam (three-point-latch) and rod locking m.s. zinc plated, with seal.

1300-U1-BxH

7C-120

(7B-120)

Stainless steel locks



Info

1 Quarter turns

2 Rod controls

3 Locking systems

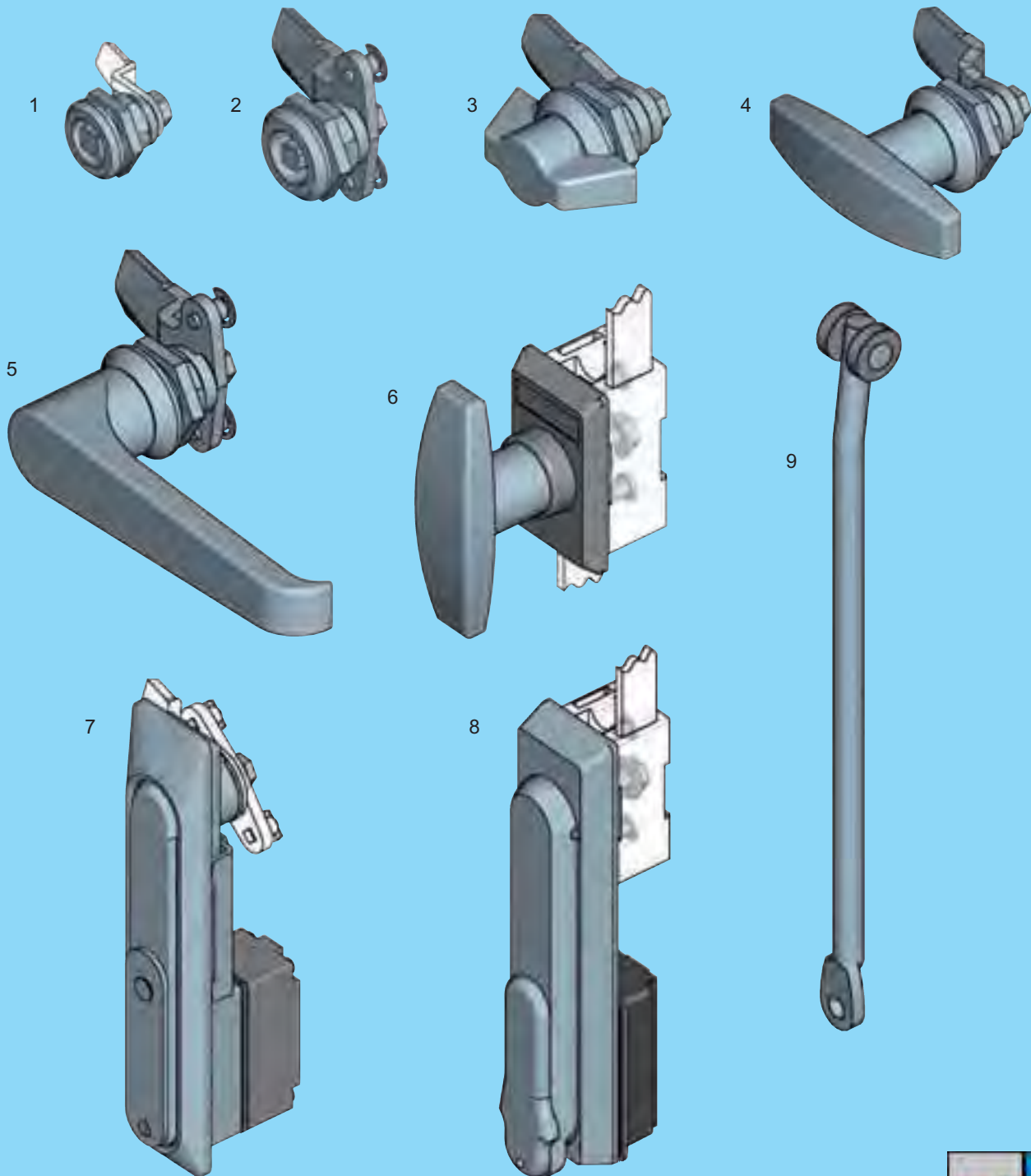
4 Hinges

5 Gasketing

6 Handles

7 Aluminium windows

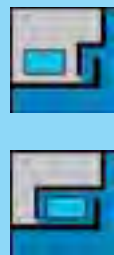
8 Stainless steel



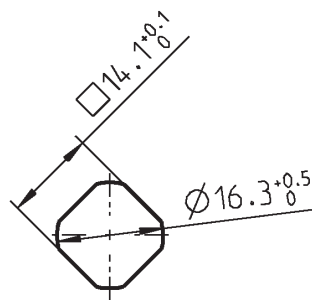
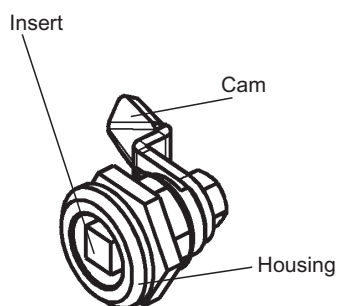
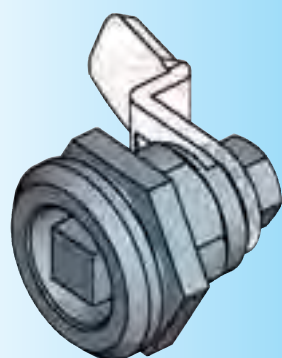
- 1 Quarter turn with insert
- 2 Quarter turn with insert
- 3 Wing knob
- 4 T-Handle
- 5 L-Handle
- 6 Escutcheon with handle
- 7 Swinghandle 1154
- 8 Swinghandle
- 9 Rod

Program 1022
Program 1000
Program 1000
Program 1000
Program 1000
Program 1125
Program 1150
Program 1125

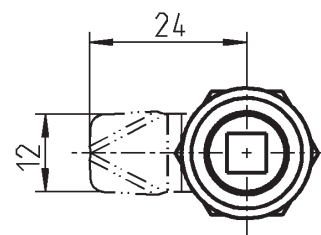
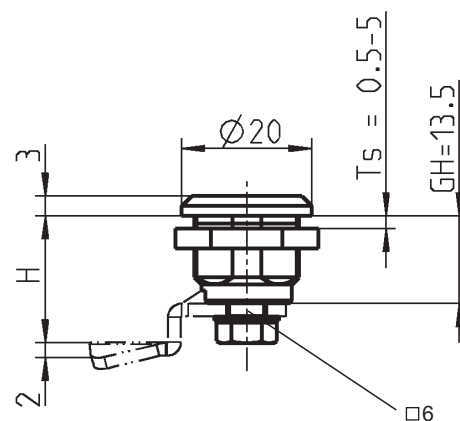
8A-120
8A-220, 8A-240
8A-260
8A-260
8A-260
8A-520
8A-620
8A-660
8A-360



8A-100



Cut out



Application:
Small doors and boards

Further parts see page

- Cam 1A-120
- Key 12B-120
- Dust cap 1A-120

8A-120

(8A-110)

Housing with nut AISI 303

1022-U60

Insert with screw and wave washer 303

Square 6

1022-U61

Triangular 6,5

1022-U62

Slot 1,5

1022-U63

Blank

1022-U64

IP 65 with:

O-ring

1022-09

Flat seal

1022-10

Assembly on request

without O-ring

1022-990

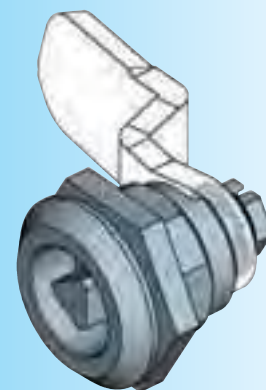
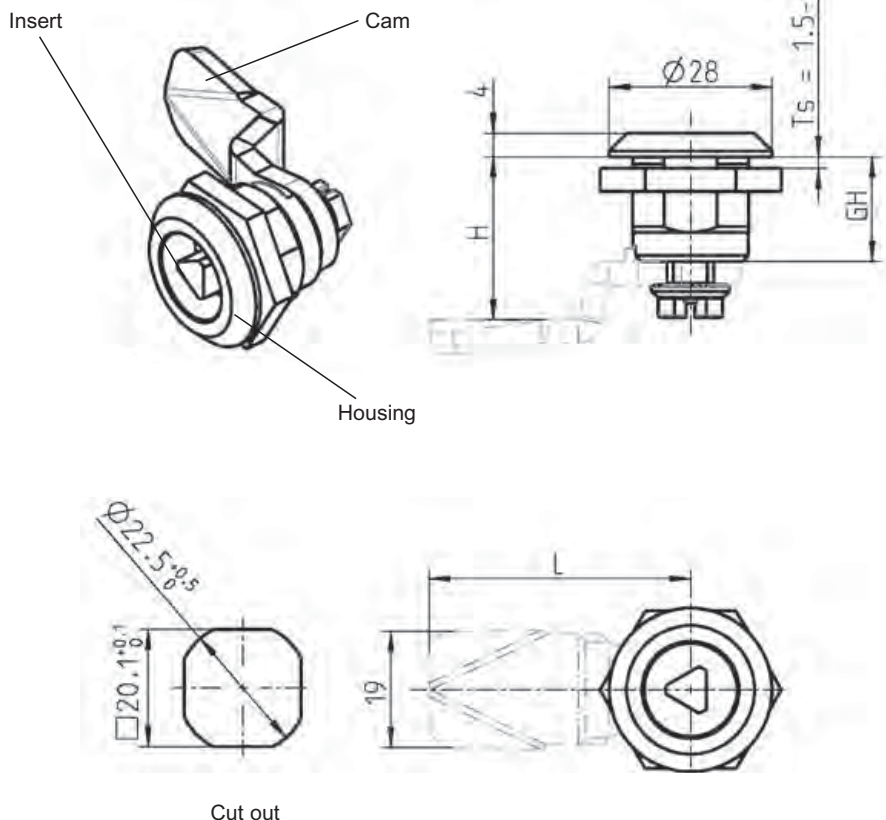
with O-ring

1022-991

Quarter turn stainless steel

PROGRAM 1000

Beschlagteile



Housing material on choice: stainless steel with foamed seal or polyamide with O-ring, stainless steel nut

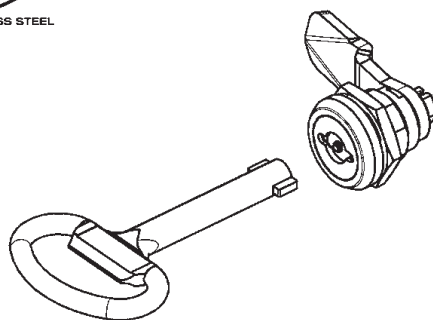
AISI 303	AISI 316	Polyamide GF black
1000-U134	1000-U530	1000-U156

Insert with screw and wave washer stainless steel, with O-ring

	AISI 303	AISI 316		AISI 303	AISI 316
Square 6	1000-U351	–	Double bit 5	1000-U137	1000-U534
Square 7	1000-U135	1000-U531	Slot 2 x 4	1000-U630	1000-U631
Square 8	1000-U136	1000-U532	Eastern Europe Ø 13	1000-U729	–
Square 8 slotted	1000-U352	–	Star handle	1000-U138	–
Triangular 7	1000-U334	1000-U536	Wing knob	1000-U510	–
Triangular 8	1000-U335	1000-U537			
Double bit 3	1000-U183	1000-U533			

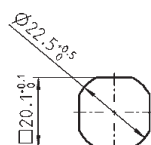
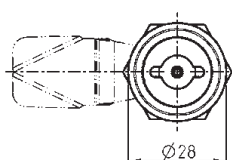
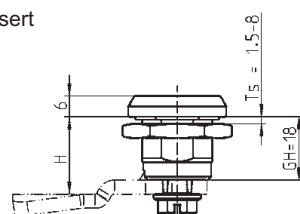
Note:
Quarter turn assembly 1B-105

Further parts see page
– Cam 8A-320
– Key 12B-120
– Dust cap 1C-320

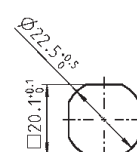
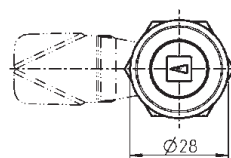
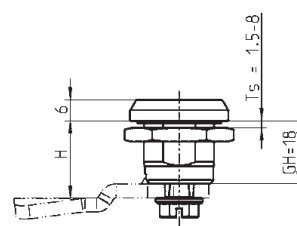
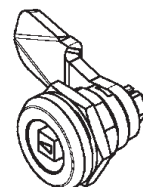


By pressing down the insert, the cam can be turned

Cam insert



Cut out



Cut out

Safety quarter turn

This lock is of a vibration proof design. This depends on the installation location and operational conditions. Specific checks are necessary and/or supplementary measures of fastening required.

With the double bit version the key is captive in the unlocked position.

Hole for double bit to DIN 43668.

The whole range is IP 65 (DIN 40050).

Available with pre-assembled cam.

Further parts see page

- Cam 8A-320
- Key 12B-120
- Dust cap 1C-320
- Escutcheon polyamide (1072-U15) 12D-120

Housing with insert, screw and nut AISI 303, with seal

	non	with
	Dust cap	
Double bit 3 mm RH version	1000-U714-01	1000-U725
Double bit 3 mm LH version	1000-U715-01	1000-U726
Double bit 5 mm RH version	1000-U716-01	1000-U727
Double bit 5 mm LH version	1000-U717-01	1000-U728
Square 6 mm RH/LH version	1000-U718-01	–
Square 7 mm RH/LH version	1000-U719-01	–
Square 8 mm RH/LH version	1000-U720-01	–
Triangular 7 mm RH/LH version	1000-U721-01	–
Triangular 8 mm RH/LH version	1000-U722-01	–
Slot 2x4 mm RH/LH version	1000-U723-01	–
Eastern Europe Ø half round 90° and 180° RH/LH	1000-U724-01	–
Railroad RH/LH	1000-U710-01	–
Ø 8,6 with slot RH/LH	1000-U712-01	–

PROGRAM 1000



ns



2 Rod controls



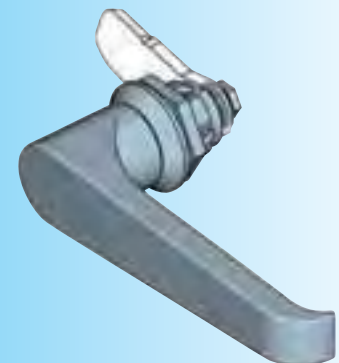
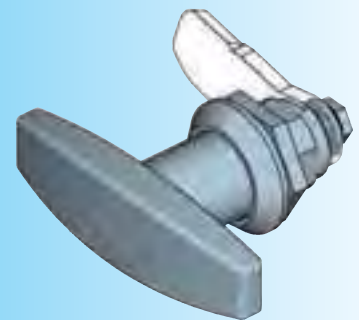
1000-U665



1000-U664



1000-U658



8A-320

(8A-135)

3 Locking systems

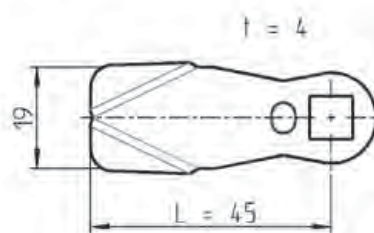
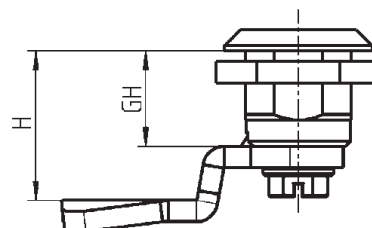
4 Hinges

5 Gasketing

6 Handles

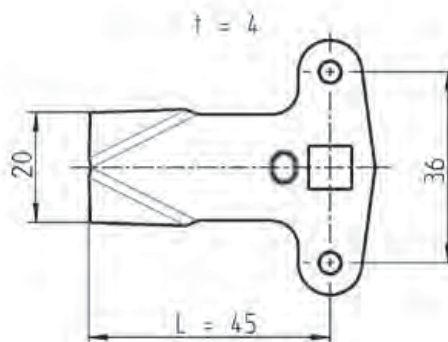
7 Aluminium windows

8 Stainless steel



Cam AISI 304

H in mm		H in mm	
6	1000-221	22	1000-179
10	1000-223	24	1000-229
14	1000-225	26	1000-230
18	1000-227	28	1000-180
20	1000-228		



3-point cam AISI 304

H in mm	
22	1000-U139
28	1000-U140

Further parts see page

- Rod 8A-360
- Quarter turn 8A-220
- Safety quarter turn 8A-240
- Handle 8A-260

8A-320 07/07

(8A-120)



3 point locking system stainless steel

PROGRAM 1000

Beschlagteile

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Gasketing

6 Handles

7 Aluminium windows

8 Stainless steel

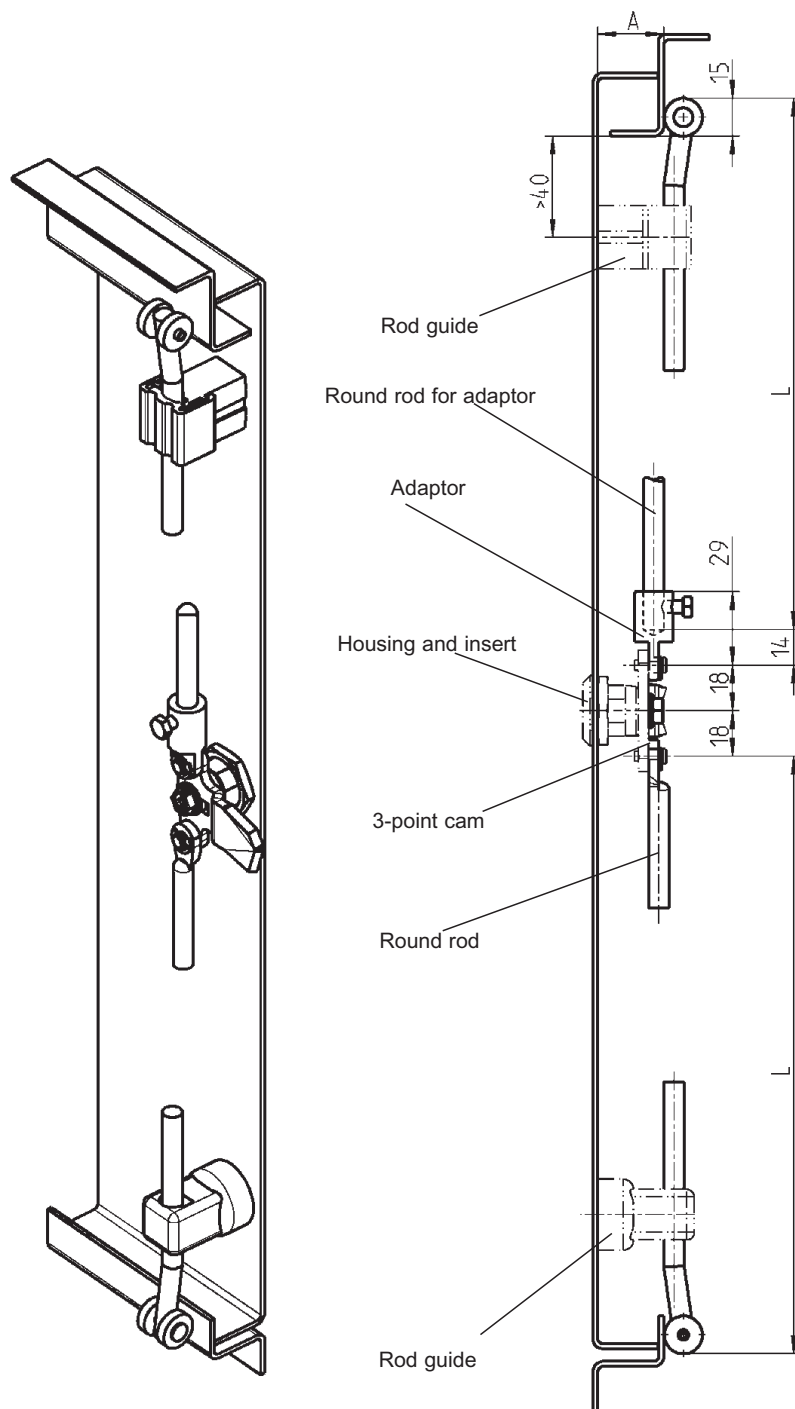


Further parts see page
– 3-point cam
– Rod guide
(see dimension A)

8A-320
1C-640

8A-360 07/07

(8A-140)



Rod Ø 8 AISI 304 with rollers polyamide black

L		L	
600	1049-U12	900	1049-U15
700	1049-U13	1000	1049-U16
800	1049-U14	1100	1049-U17

Adaptor AISI 303

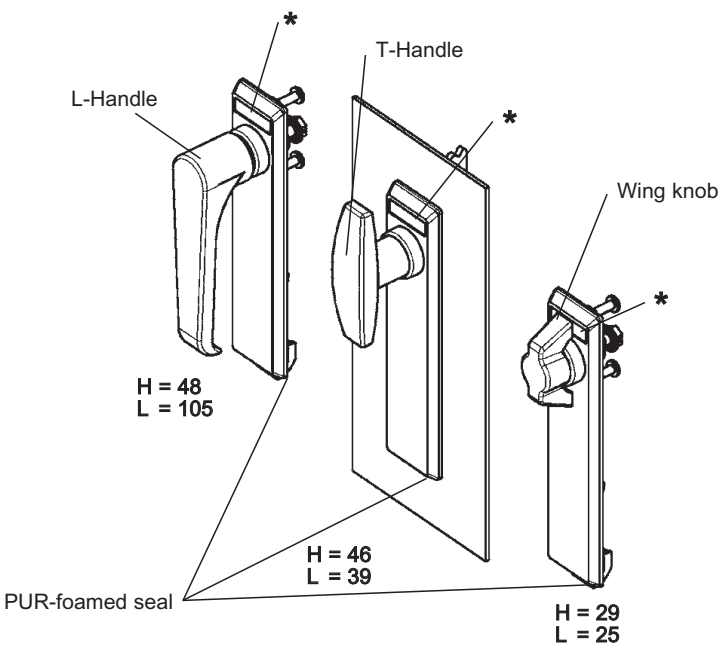
		1000-U141
--	--	-----------

Rod Ø 8 with eye AISI 304 and rollers polyamide black

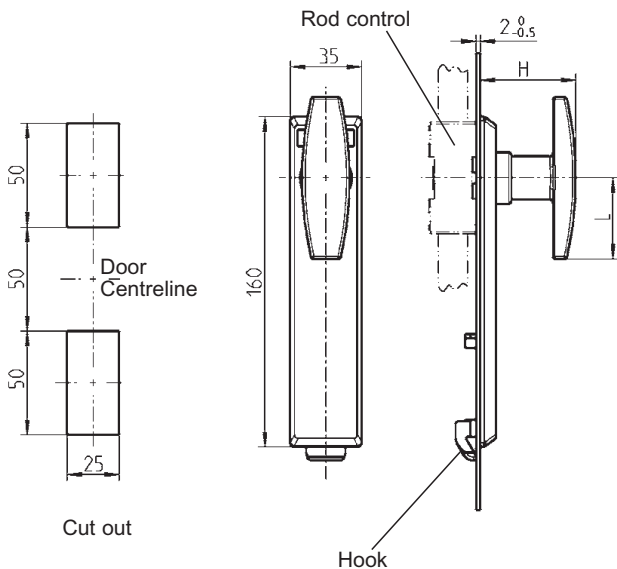
Example: Length 938 mm	1000-U538-L 938	1000-U538-L in mm (1000-U538-01 to -09)
		see price list

Escutcheon with stainless steel handle

PROGRAM 1125

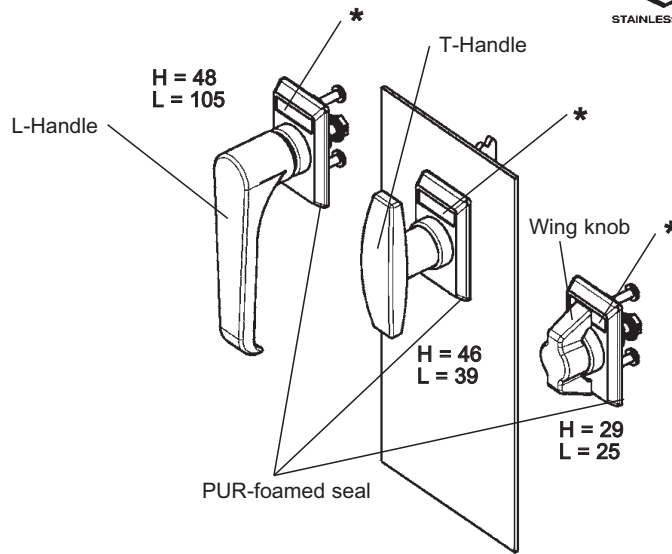


Escutcheon long

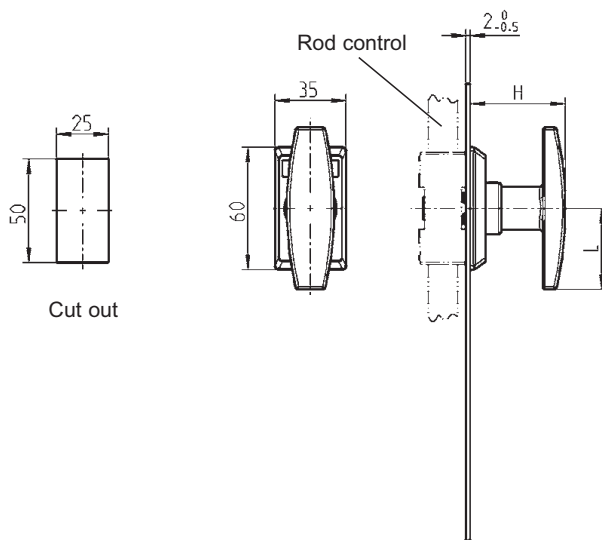


Escutcheon long polyamide GF black, fixing material stainless steel, with seal

	Hook IP 40	snap on cap IP 40	screw on cap IP 65
L-Handle AISI 304			
without lock	1123-U34-6	1123-U34-N6	1123-U35-6
T-Handle AISI 304			
without lock	1123-U38-6	1123-U38-N6	1123-U39-6
Wing knob AISI 304			
without lock	1123-U41-6	1123-U41-N6	1123-U42-6



Escutcheon short



Escutcheon short polyamide GF black, fixing material stainless steel, with seal IP 65

L-Handle AISI 304

without lock 1123-U36-6

T-Handle AISI 304

without lock 1123-U37-6

Wing knob AISI 304

without lock 1123-U40-6

* Logo Recess 27 x 8 x 0,5
Multicolour print possible

Further parts see page

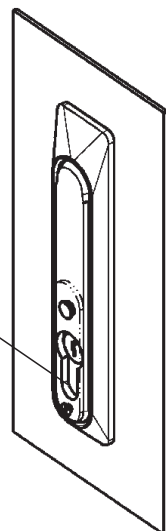
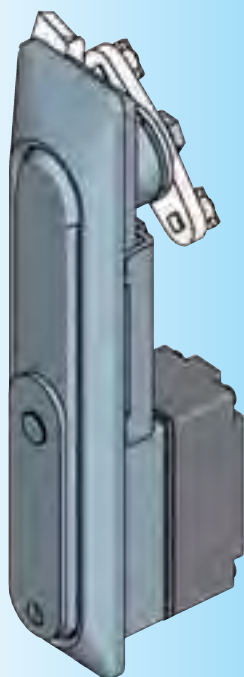
– Key	12B-120
– Rod control long version	3YA-120
	3YA-140
Short version	3YA-160
– Bearing bush	3YB-120

8A-520

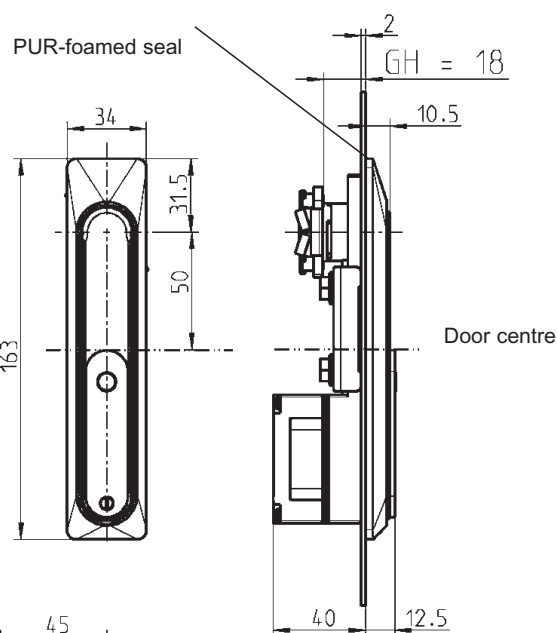
(8A-160)



Vandalism resistant

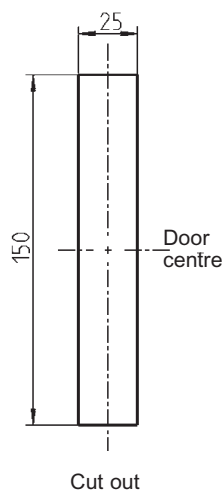


Profile half cylinder
is recessed by
3 mm

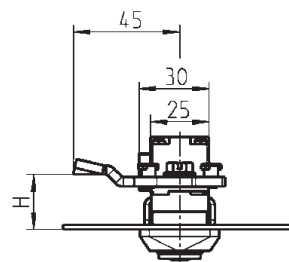


PUR-foamed seal

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



Cut out



Turn 90°
Stroke 26 mm

Attention: Length of housing GH = 18 mm

Further parts see page

- Cam 3YC-120
- Rod 3ZB-540
- (Version A)
- Profile half cylinder 3XB-120

Swinghandle stainless steel AISI 304, cap polyamide black,
fixing material stainless steel AISI 304, with seal

For profile half cylinder 40

1154-U2

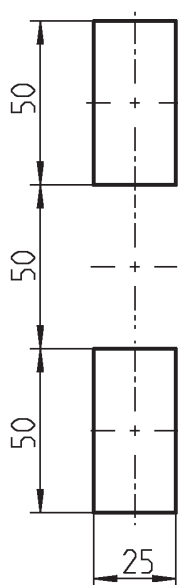
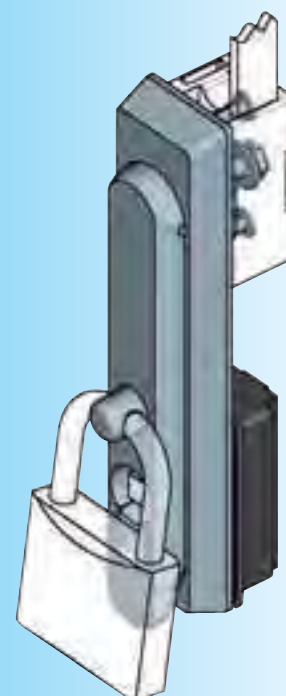
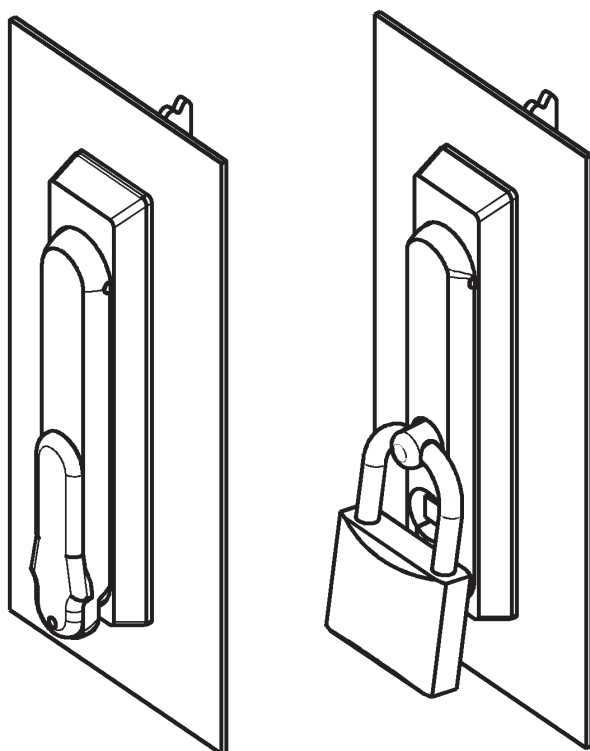
8A-620

(8A-180)

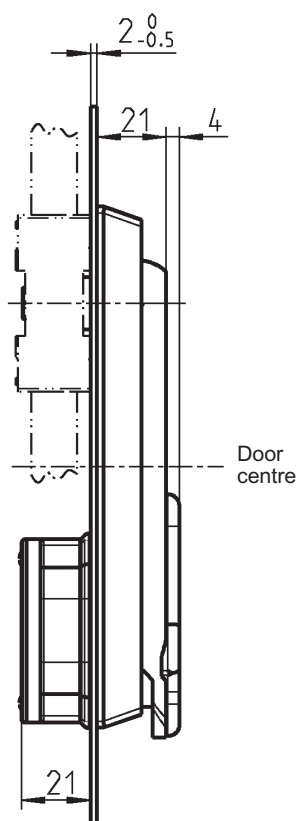
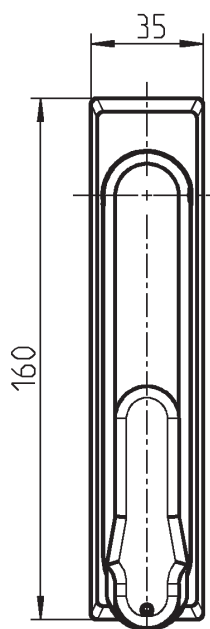
Swinghandle stainless steel 1125

PROGRAM 1125

Beschlagteile



Cut out



Swinghandle AISI 316 for 40 mm profile half cylinder, cap polyamide black, with seal

with dust cap

For padlock < Ø 7,5

1125-U191-APH

1125-U184-APH

Further parts see page

- Rod control 3YA-120
- Bearing bush 3YA-140
- Profile half cylinder 3YB-120
- Profile half cylinder 3XB-120

8A-660

(8A-190)

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Gasketing

6 Handles

7 Aluminium windows

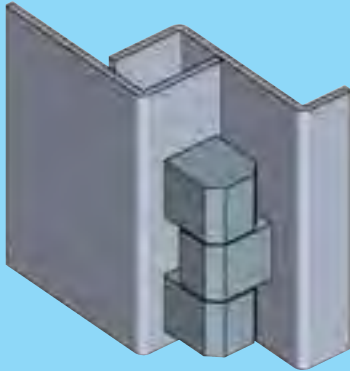
8 Stainless steel

Notes:

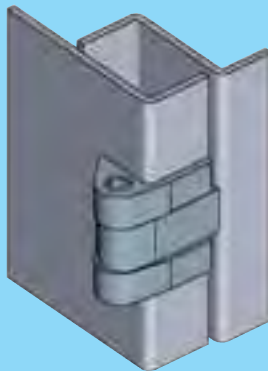
Stainless steel hinges



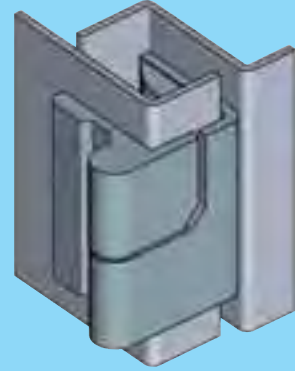
1



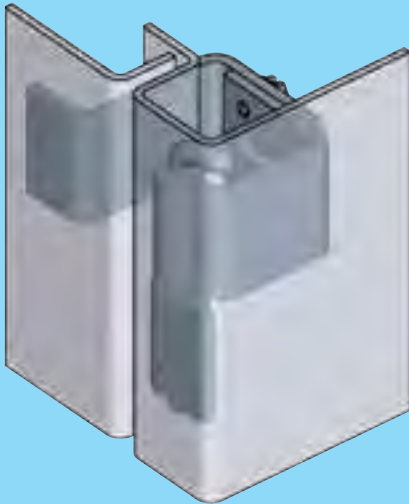
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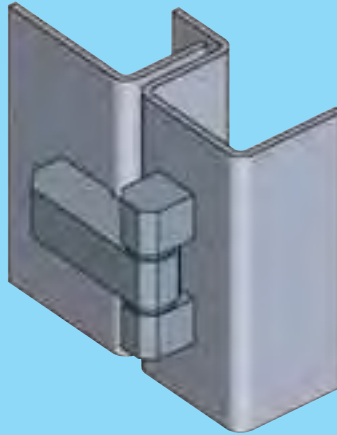
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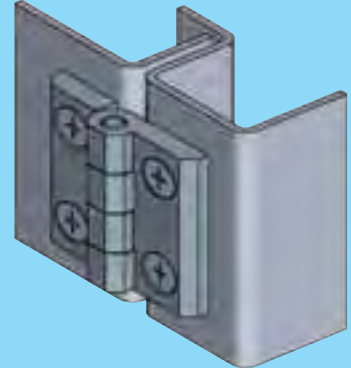
2



2



2



Door and housing/frame pictured transparent



- 1 Hinge for prominent door
- 2 Hinge for flush door

8B-120 up to 8B-180
8B-320 up to 8B-380

8B-100

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Gasketing

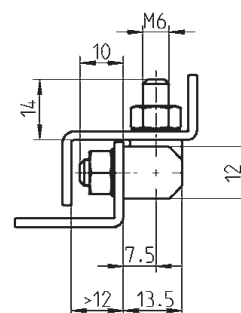
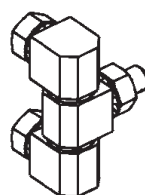
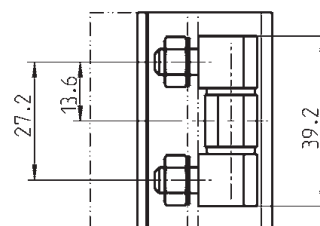
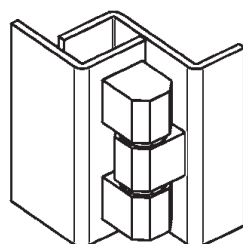
6 Handles

7 Aluminium windows

8 Stainless steel



STAINLESS STEEL



Screw-on hinge

AISI 303

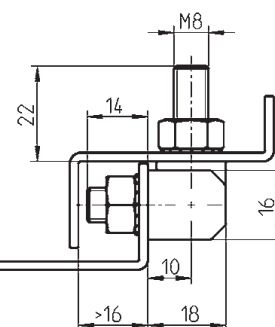
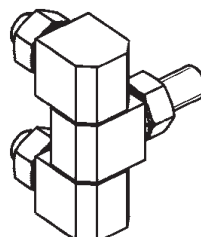
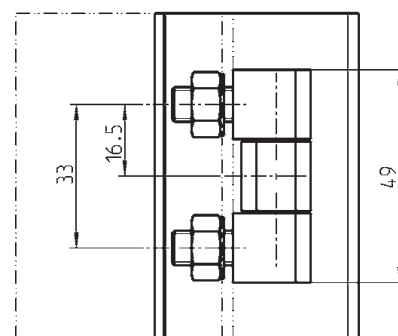
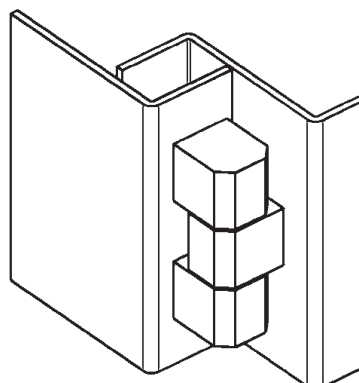
1055-U6

AISI 316

1055-U8



STAINLESS STEEL



Screw-on hinge

AISI 303

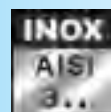
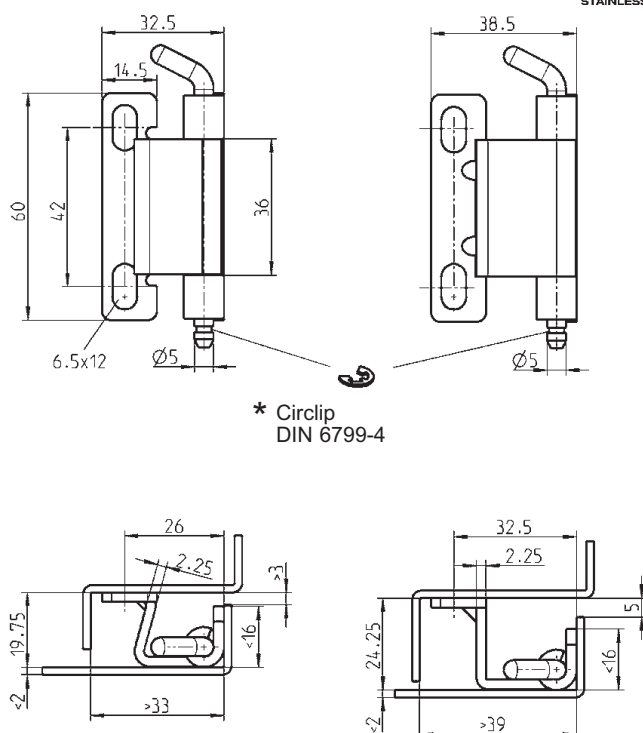
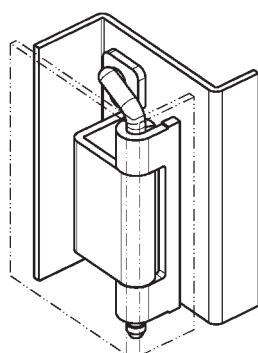
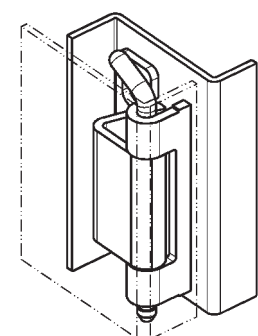
1039-U19

AISI 316

1039-U26

Hinge stainless steel

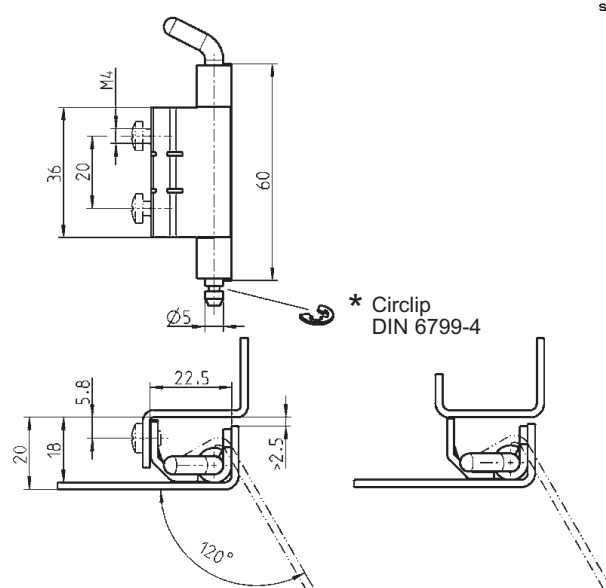
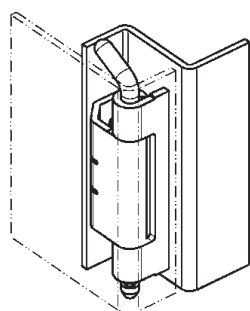
PROGRAM 1032, 1069



Hinge AISI 304

1032-U2

1031-U2



Hinge AISI 304

screw-on

1069-U4

weld-on

1069-U3

* not included

8B-140

(8A-240)

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Gasketing

6 Handles

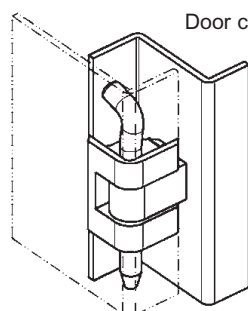
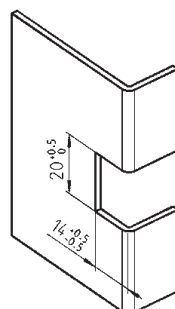
7 Aluminium windows

8 Stainless steel

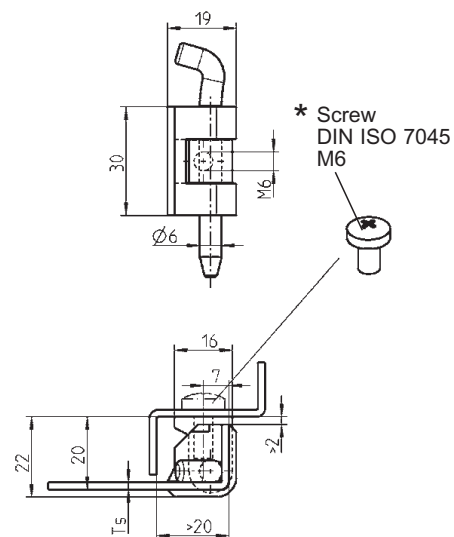


180° hinge for single cabinets

STAINLESS STEEL



Door cut out



with gasket > 25

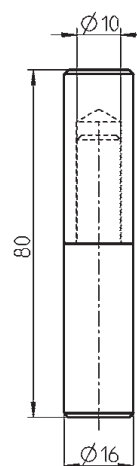
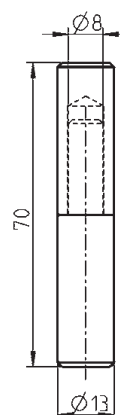
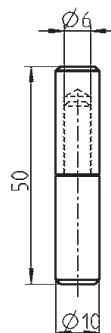
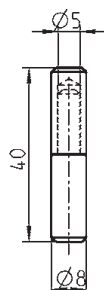
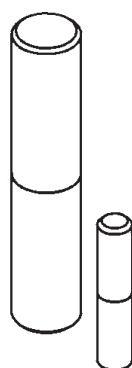
Hinge AISI 316, pin AISI 303

Тs= 0,8 – 1,0	1110-U50
1,5 – 2,0	1110-U51



STAINLESS STEEL

Weld-on hinge



* not included

Weld-on hinge

AISI 303	1033-U45	1033-U46	1033-U47	1033-U48
AISI 316	1033-U49	1033-U50	1033-U51	1033-U52

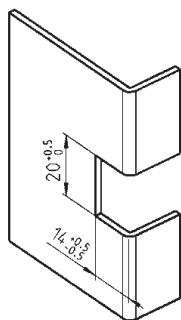
8B-160

(8A-260)

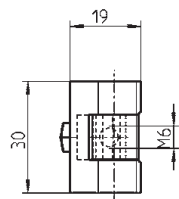
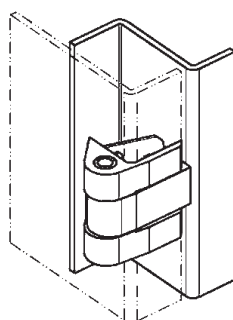
180° hinge stainless steel

PROGRAM 1110

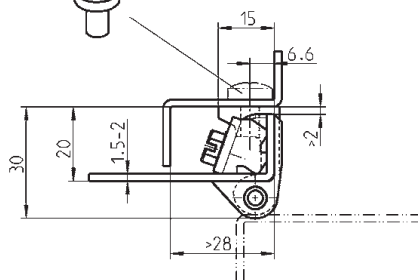
180° hinge for in-line cabinets with adjacent door for 20 mm door return



Cut out



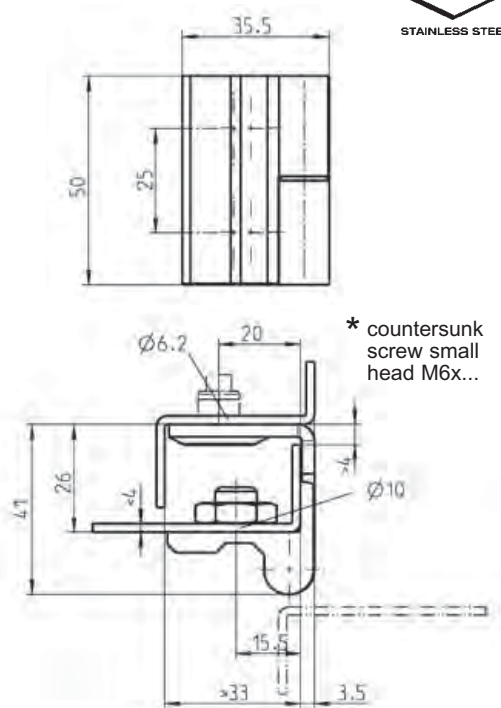
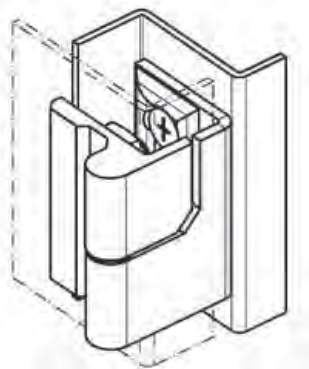
* Screw
DIN ISO 7045 M6 x...



180° hinge AISI 316, set screw and pin AISI 303

1110-U5-NPH

180° hinge for in-line cabinets with adjacent door lift-off upon 70° opening angle for 26 door return.



* countersunk
screw small
head M6x...

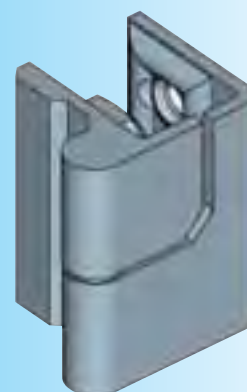
180° hinge AISI 316, set screw and nut AISI 304

LH (2D-nut possible)

1110-U120-PH

RH (2D-nut possible)

1110-U121-PH

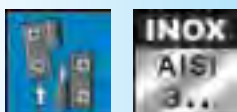


small head = DIN ISO 2009,
2010, 7046-1, 7046-2, 7047

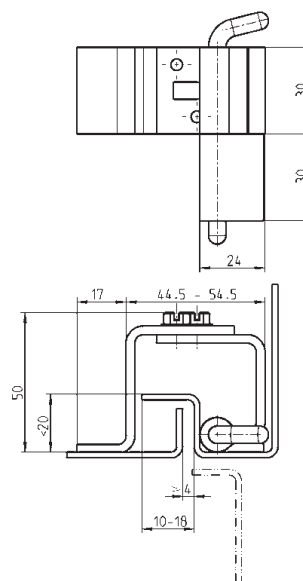
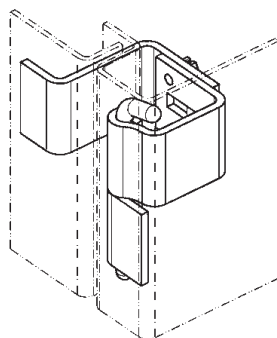
* not included

Concealed hinge stainless steel PROGRAM 1006, 1046

Beschlagteile



STAINLESS STEEL

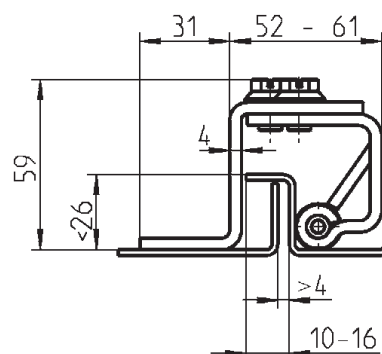
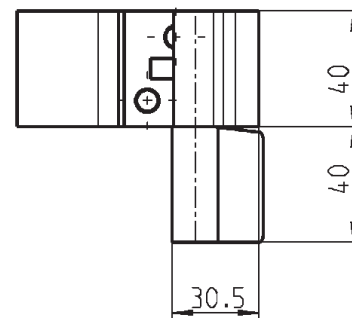
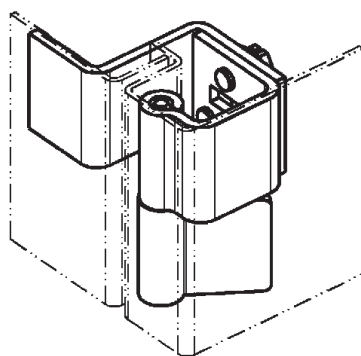


Concealed hinge AISI 304 and AISI 303

1006-U1-PC



STAINLESS STEEL



Concealed hinge AISI 304 and AISI 303

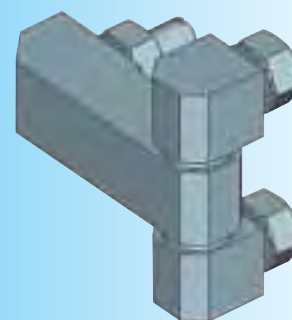
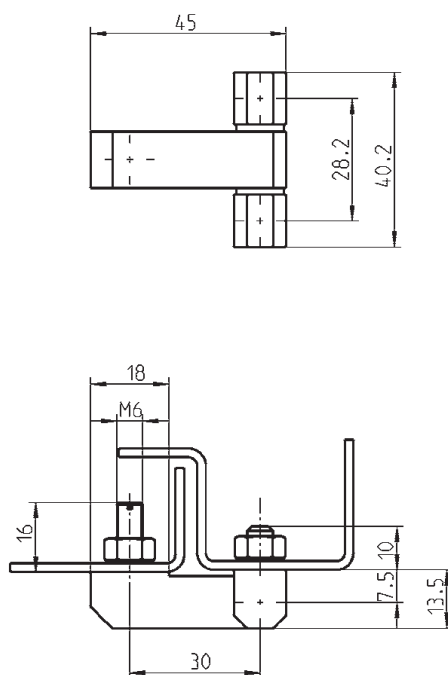
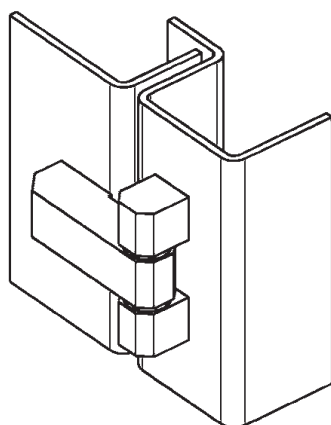
1046-U5

8B-320

(8A-320)

Screw-on hinge stainless steel

PROGRAM 1039, 1055



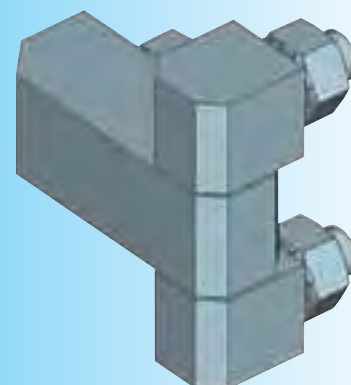
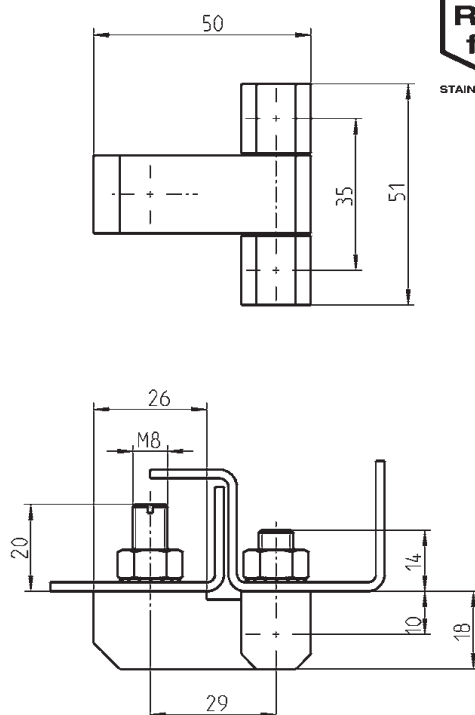
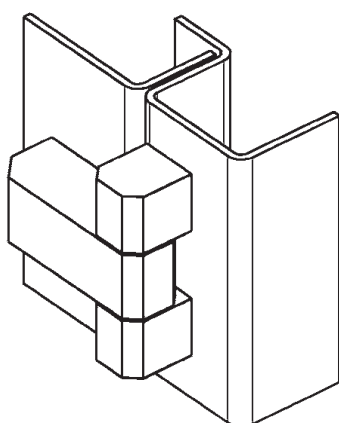
Screw-on hinge

AISI 303

1055-U7

AISI 316

1055-U9



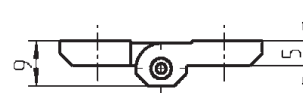
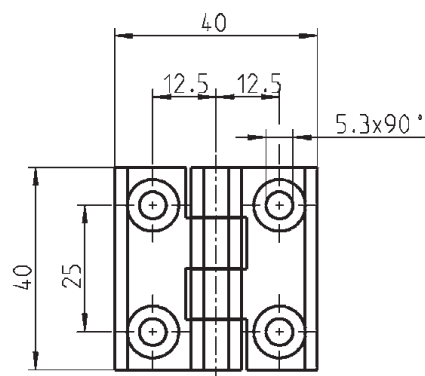
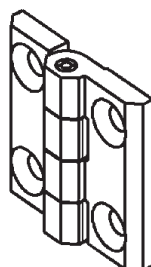
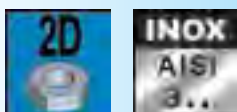
Screw-on hinge

AISI 303

1039-U18

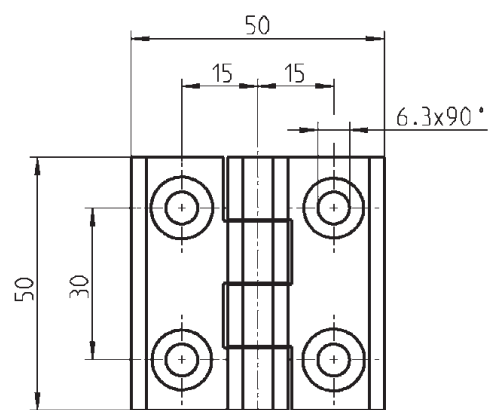
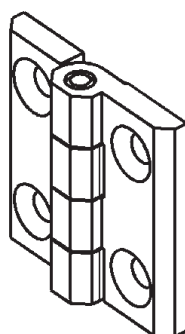
AISI 316

1039-U25



Screw-on hinge AISI 316 for countersunk screw M5

1056-U5-PH



Screw-on hinge AISI 316 for countersunk screw M6

(2D-nut possible)

1056-U9-PH

8B-360

(8A-360)

Screw-on hinge stainless steel

PROGRAM 1056

Beschlagteile

1 Quarter turns

2 Rod controls

3 Locking systems

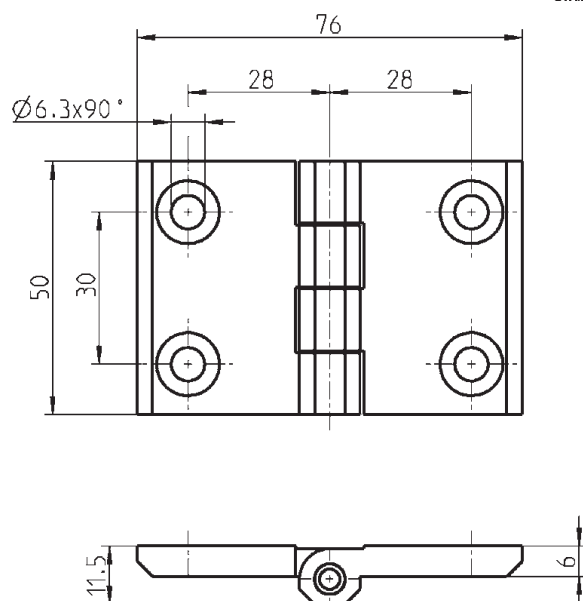
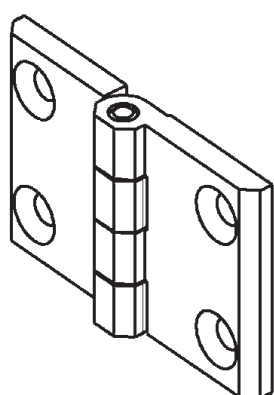
4 Hinges

5 Gasketing

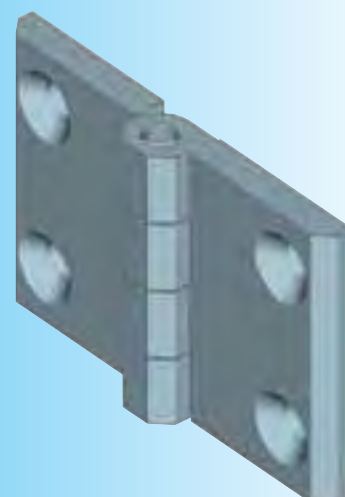
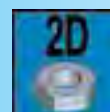
6 Handles

7 Aluminium windows

8 Stainless steel



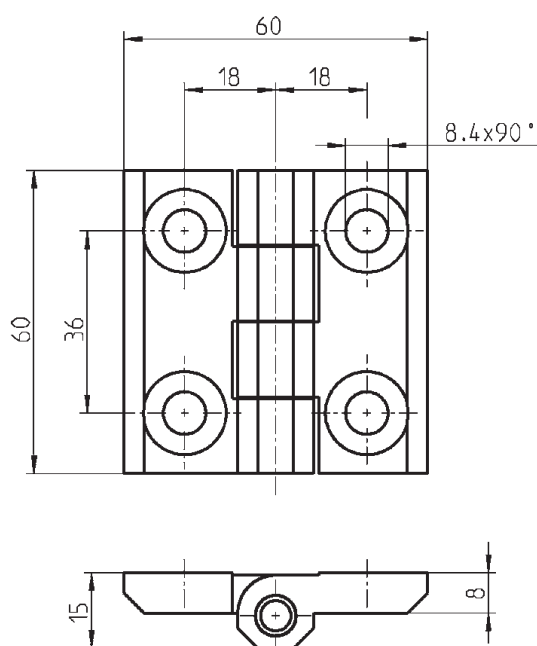
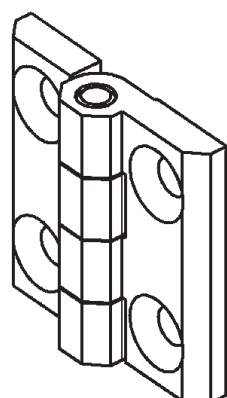
STAINLESS STEEL



Screw-on hinge AISI 316 for countersunk screw M6

(2D-nut possible)

1056-U17-PH



STAINLESS STEEL



Screw-on hinge AISI 316 for countersunk screw M8

1056-U13-PH

8B-380

(8A-380)

Notes:

Toggle latch and hook Program 6000



2



3



3



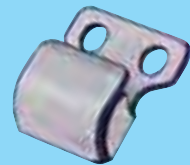
4



5



6



6



6



- 1 Wire toggle latch
- 2 Rigid wire toggle latch
- 3 Spring loaded toggle latch
- 4 Special toggle latch
- 5 Adjustable toggle latch
- 6 Catch plate

- 9A-120
- 9A-160
- 9A-220 to 9A-240
- 9A-260, 9A-280
- 9A-320
- 9A-520 to 9A-660

New
Surface with steel parts:
zinc plated, thick-film passivated (DS)
and Top Coat sealed.

9A-100

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Gasketing

6 Handles

7 Aluminium windows

8 Stainless steel

9 Latches



Further parts see page
possible catch plates
6010-01-xxx
6010-11-xxx
6010-08-xxx

9A-520
9A-540
9A-620



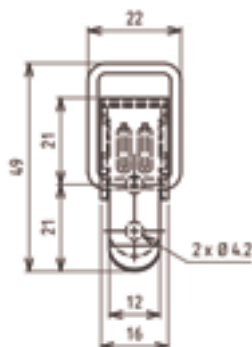
Further parts see page
possible catch plates
6010-02-xxx
6010-03-xxx
6010-09-xxx

9A-520
9A-520
9A-620

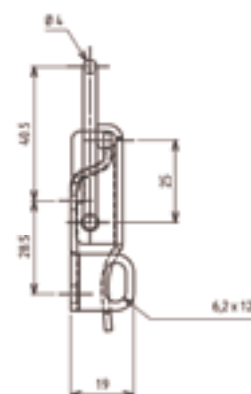
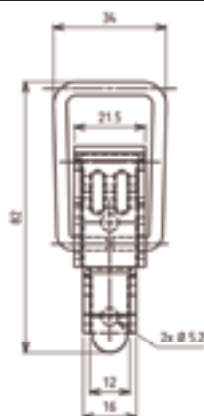


Further parts see page
possible catch plates
6010-02-xxx
6010-09-xxx

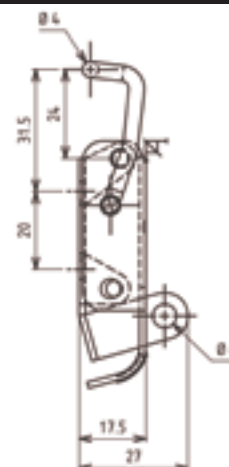
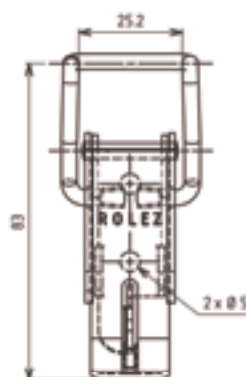
9A-520
9A-620



Toggle latch	Without padlock-facility	With padlock-facility
Raw steel drilled	6000-U42-KA	6000-U43-KA
Raw steel undrilled	6000-U42-01KA	6000-U43-01KA
Zinc plated steel DS plus Top Coat drilled	6000-U42-JQ	6000-U43-JQ
AISI 304 drilled	6000-U42-PC	6000-U43-PC
AISI 304, undrilled	6000-U42-01PC	6000-U43-01PC



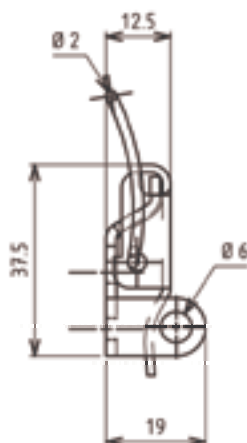
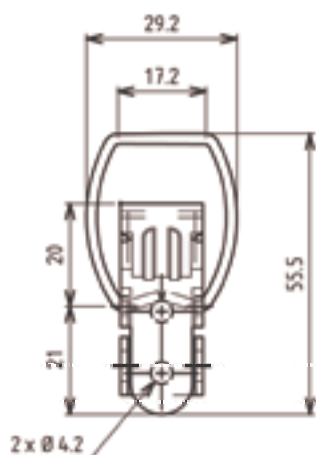
Toggle latch	Without padlock-facility	With padlock-facility
Raw steel drilled	6000-U44-KA	6000-U45-KA
Raw steel undrilled	6000-U44-01KA	6000-U45-01KA
Zinc plated steel DS plus Top Coat drilled	6000-U44-JQ	6000-U45-JQ
AISI 304 drilled	6000-U44-PC	6000-U45-PC
AISI 304, undrilled	6000-U44-01PC	6000-U45-01PC



Toggle latch	Without padlock-facility	With padlock-facility
Zinc plated steel DS plus Top Coat drilled	6000-U135-JQ	6000-U635-JQ
AISI 304 drilled	6000-U135-PC	6000-U635-PC

Flexible wire toggle latches

PROGRAM 6000



Toggle latch

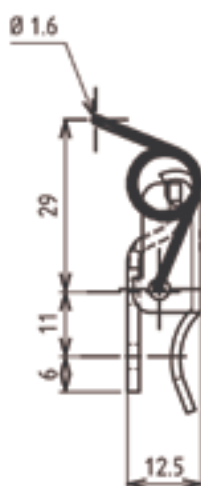
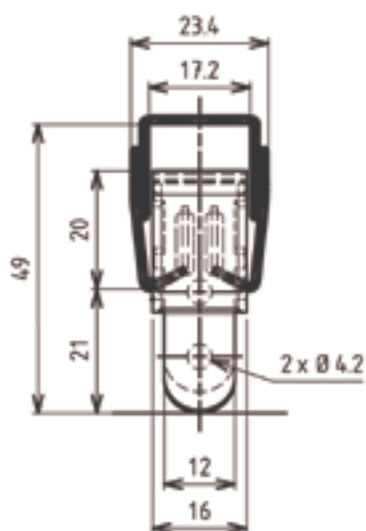
Without padlock-facility

With padlock-facility

Zinc plated steel DS plus Top Coat drilled

6001-U32-JQ

6001-U33-JQ

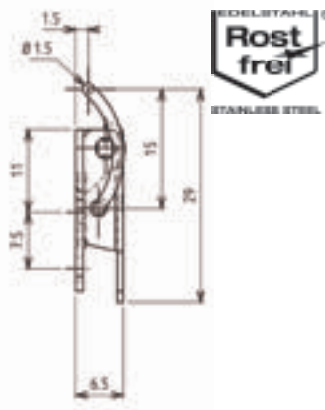
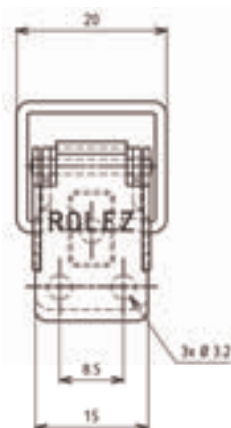


Toggle latch

Without padlock-facility

Zinc plated steel DS plus Top Coat drilled

6001-U36-JQ



Toggle latch

Without padlock-facility

Raw steel drilled

6001-U139-KA

Zinc plated steel DS plus Top Coat drilled

6001-U139-JQ

AISI 304 drilled

6001-U139-PC



Further parts see page
possible catch plates
6010-01-xxx
6010-11-xxx
6010-08-xxx

9A-520
9A-540
9A-620



Further parts see page
possible catch plates
6010-01-xxx
6010-11-xxx
6010-08-xxx

9A-520
9A-540
9A-620



Further parts see page
possible catch plates
6010-139-xxx

9A-560



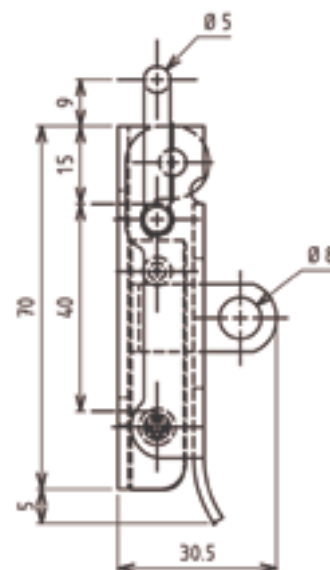
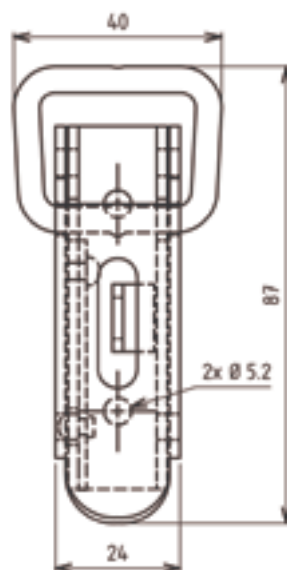
Further parts see page
possible catch plates

6010-12-xxx	9A-620
6010-13-xxx	9A-640
6010-14-xxx	9A-640
6010-958-xxx	9A-660



Further parts see page
possible catch plates

6010-16-xxx	9A-660
6010-17-xxx	9A-660

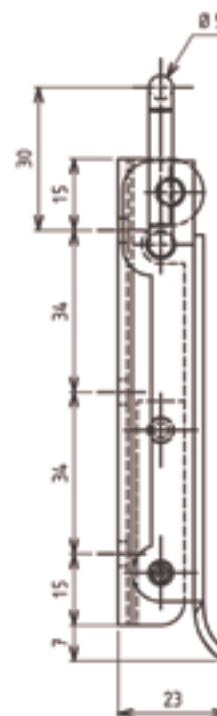
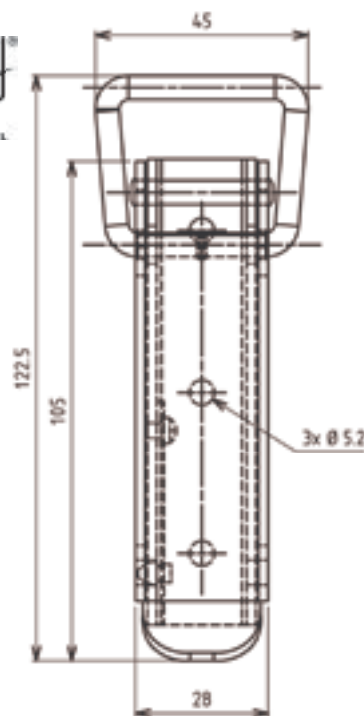


Toggle latch with high opening resistance

	Without padlock-facility	With padlock-facility
Zinc plated steel DS plus Top Coat drilled	6002-U75-JQ	6002-U74-JQ

Toggle latch with low opening resistance

	Without padlock-facility	With padlock-facility
Zinc plated steel DS plus Top Coat drilled	6002-U77-JQ	6002-U73-JQ
AISI 304 drilled	6002-U77-PC	6002-U73-PC

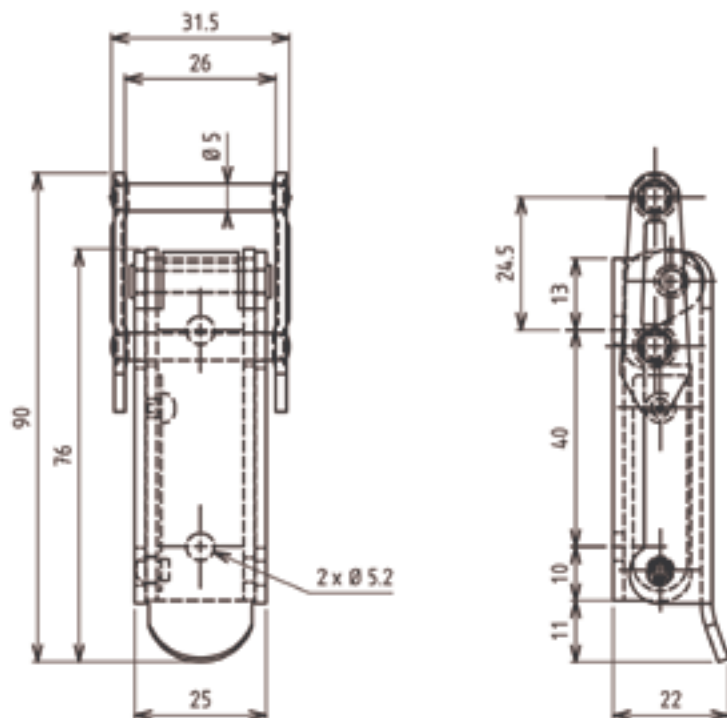


Toggle latch with high opening resistance

	Without padlock-facility	With padlock-facility
Raw steel drilled	6002-U15-KA	6002-U14-KA
Zinc plated steel DS plus Top Coat drilled	6002-U15-JQ	6002-U14-JQ
AISI 304 drilled	6002-U15-PC	6002-U14-PC

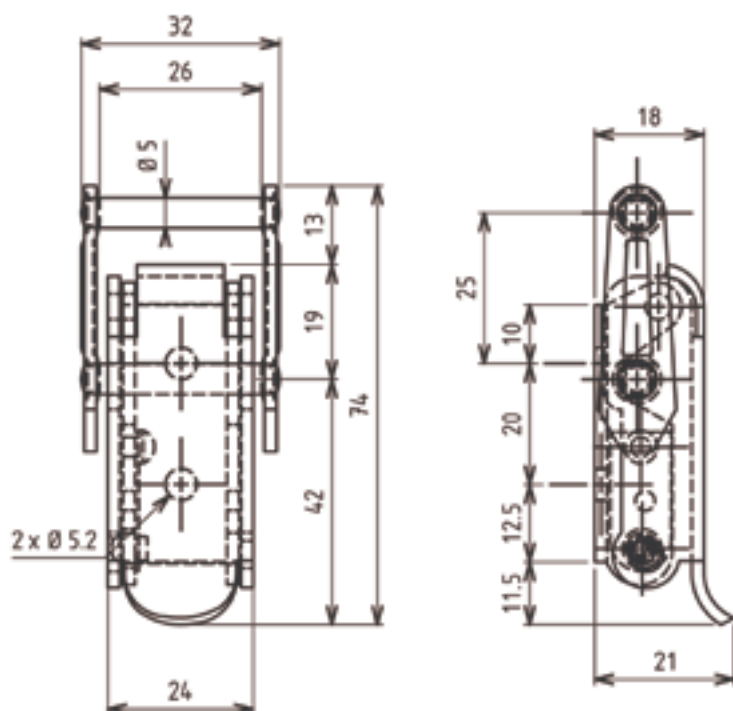
Toggle latch with links

PROGRAM 6000



Toggle latch with low opening resistance

	Without padlock-facility	With padlock-facility
Zinc plated steel DS plus Top Coat drilled	6003-U79-JQ	6003-U80-JQ



Toggle latch with low opening resistance

	Without padlock-facility
Zinc plated steel DS plus Top Coat drilled	6003-U71-JQ
AISI 304 drilled	6003-U71-PC



Further parts see page possible catch plates

6010-12-xxx	9A-620
6010-13-xxx	9A-640
6010-14-xxx	9A-640
6010-958-xxx	9A-660
- Back plate	9A-680



Further parts see page possible catch plates

6010-12-xxx	9A-620
6010-13-xxx	9A-640
6010-14-xxx	9A-640
6010-958-xxx	9A-660



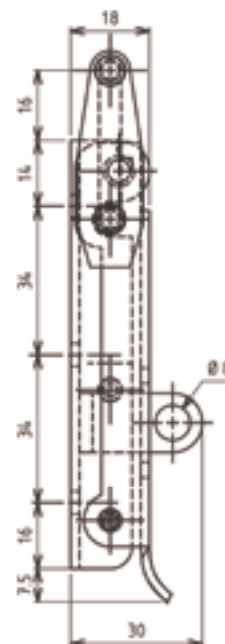
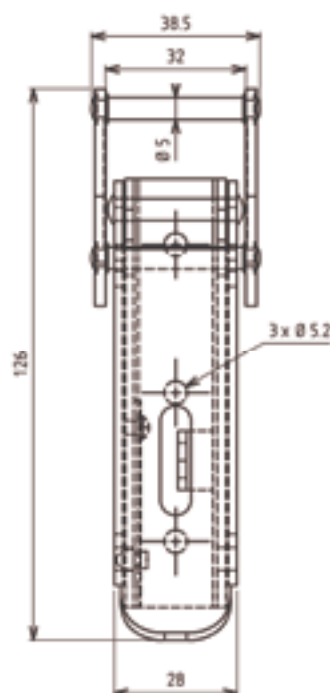
Further parts see page
possible catch plates

6010-12-xxx	9A-620
6010-13-xxx	9A-640
6010-14-xxx	9A-640
6010-958-xxx	9A-660



Further parts see page
possible catch plates

6010-12-xxx	9A-620
6010-13-xxx	9A-640
6010-14-xxx	9A-640
6010-958-xxx	9A-660

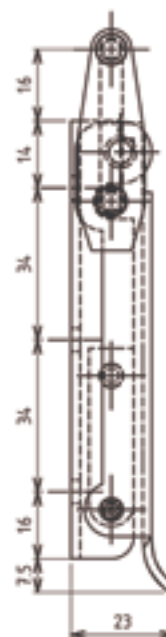
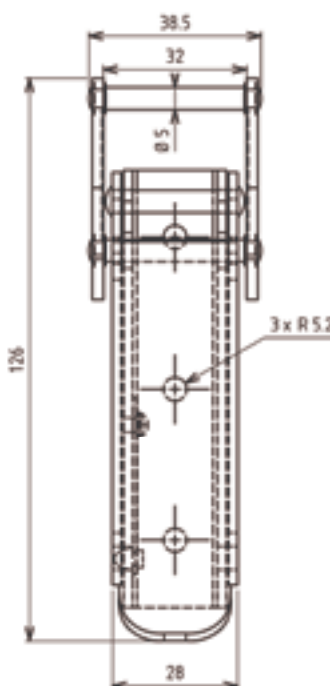


Toggle latch with high opening resistance

	Without padlock-facility	With padlock-facility
Zinc plated steel DS plus Top Coat drilled	6003-U82-JQ	6003-U81-JQ



STAINLESS STEEL

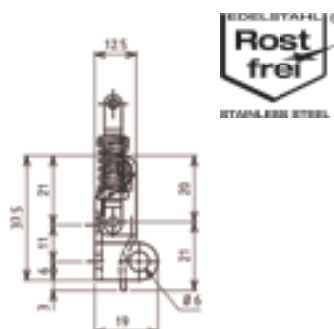
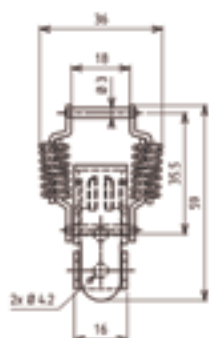


Toggle latch with low opening resistance

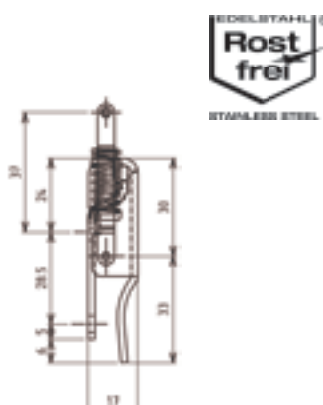
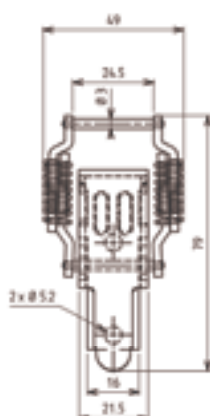
	Without padlock-facility
AISI 304 drilled	6003-U86-PC

Spring loaded toggle latches

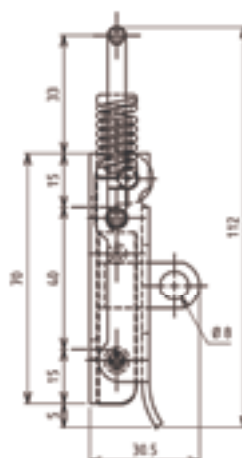
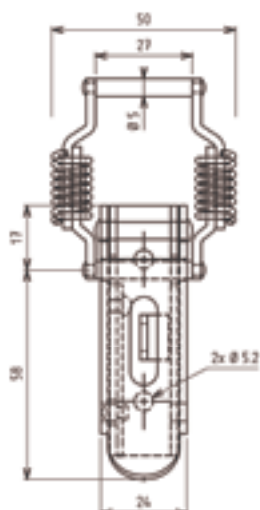
PROGRAM 6000



Toggle latch	Without padlock-facility	With padlock-facility
Raw steel drilled	6004-U22-KA	6004-U23-KA
Zinc plated steel DS plus Top Coat drilled	6004-U22-JQ	6004-U23-JQ
AISI 304 drilled	6004-U22-PC	6004-U23-PC



Toggle latch	Without padlock-facility	With padlock-facility
Raw steel drilled	6004-U24-KA	6004-U25-KA
Zinc plated steel DS plus Top Coat drilled	6004-U24-JQ	6004-U25-JQ
AISI 304 drilled	6004-U24-PC	6004-U25-PC



Toggle latch with high opening resistance	Without padlock-facility	With padlock-facility
Raw steel drilled	6004-U26-KA	6004-U37-KA
Zinc plated steel DS plus Top Coat drilled	6004-U26-JQ	6004-U37-JQ

Beschlagteile



Further parts see page possible catch plates

6010-04-xxx	9A-520
6010-05-xxx	9A-540
6010-08-xxx	9A-620
6010-243-xxx	9A-570
6010-316-xxx	9A-570



Further parts see page possible catch plates

6010-06-xxx	9A-540
6010-09-xxx	9A-620
6010-12-xxx	9A-620
6010-315-xxx	9A-570
6010-316-xxx	9A-570
6010-958-xxx	9A-660



Further parts see page possible catch plates

6010-12-xxx	9A-620
6010-13-xxx	9A-640
6010-14-xxx	9A-640
6010-958-xxx	9A-660



Further parts see page
possible catch plates

6010-12-xxx	9A-620
6010-13-xxx	9A-640
6010-14-xxx	9A-640
6010-958-xxx	9A-660

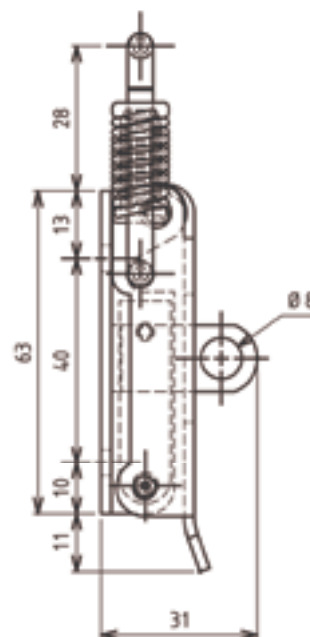
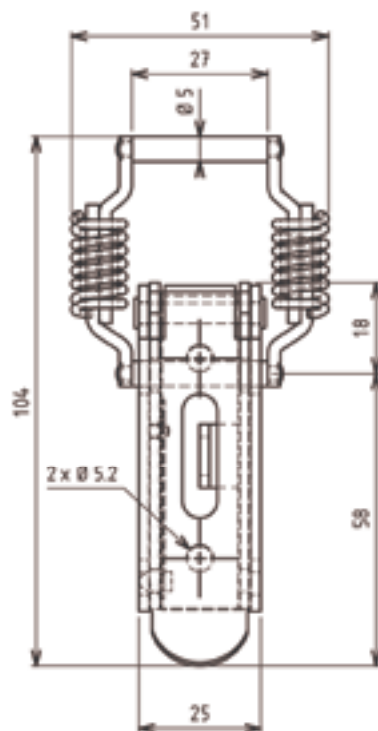


Further parts see page
possible catch plates

6010-15-xxx	9A-640
6010-16-xxx	9A-660
6010-17-xxx	9A-660

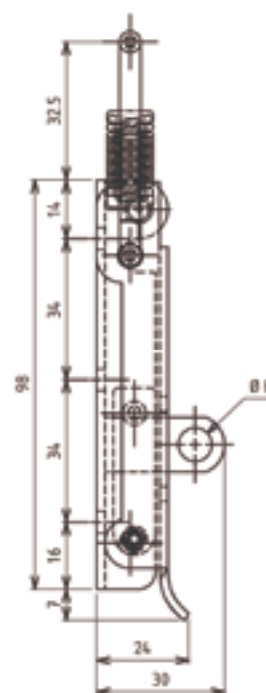
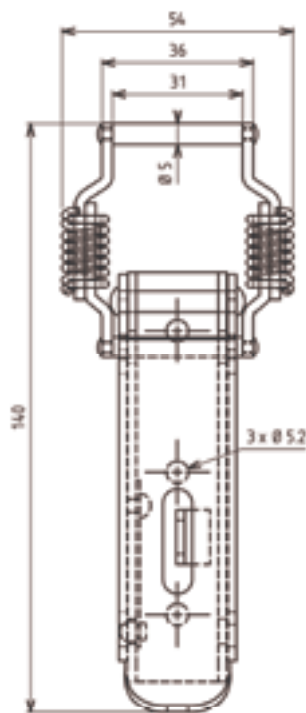
9A-230

(9A-220; 9A-240)



Toggle latch with low opening resistance

	Without padlock-facility	With padlock-facility
Raw steel drilled	6004-U30-KA	6004-U31-KA
Zinc plated steel DS plus Top Coat drilled	6004-U30-JQ	6004-U31-JQ



Toggle latch with high opening resistance

	Without padlock-facility	With padlock-facility
Zinc plated steel DS plus Top Coat drilled	6004-U27-JQ	6004-U34-JQ

Special toggle latches PROGRAM 6000

Beschlagteile



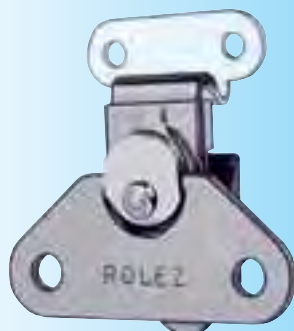
Further parts see page
possible catch plates
6010-200-xxx

9A-560



Further parts see page
possible catch plates
6010-07-xxx

9A-540

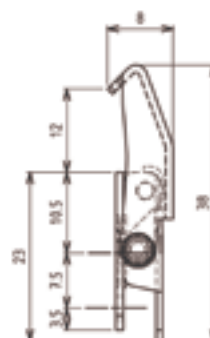
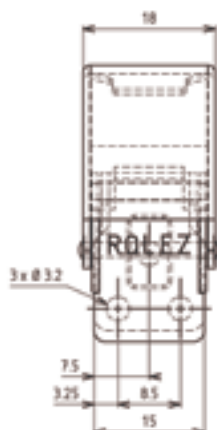


Further parts see page
possible catch plates
6010-20-xxx

9A-560

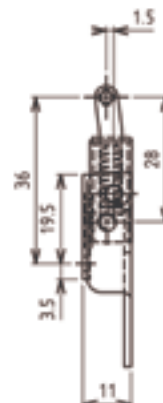
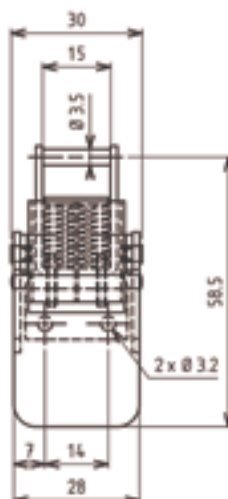
9A-260 04/07

(9A-280)



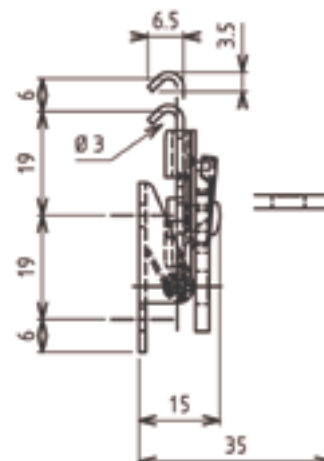
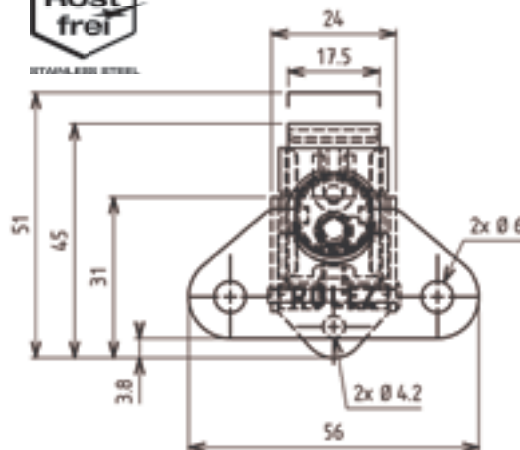
Toggle latch with claw links

Raw steel drilled	6005-U200-KA
Zinc plated steel DS plus Top Coat drilled	6005-U200-JQ
AISI 304 drilled	6005-U200-PC



Toggle latch with claw links

Zinc plated steel DS plus Top Coat drilled	6005-U28-JQ
AISI 304 drilled	6005-U28-PC

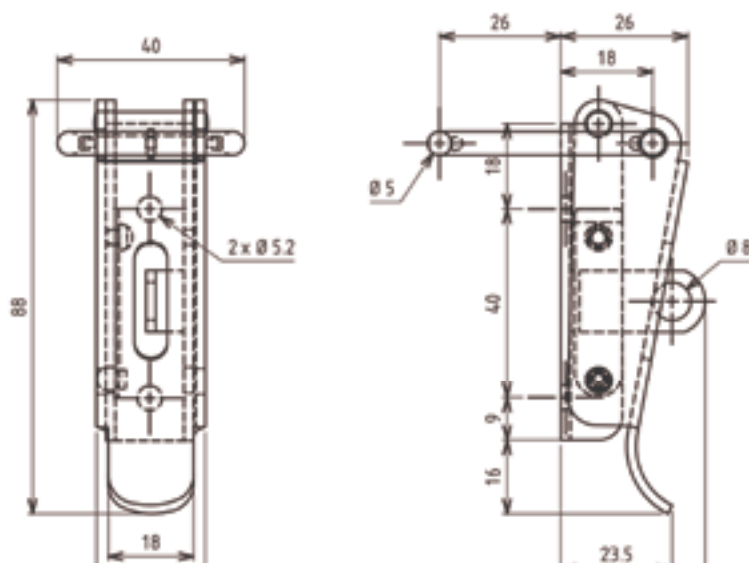


Compression latch

Zinc plated steel DS plus Top Coat drilled	6006-U10-JQ
AISI 304 drilled	6006-U10-PC

Special toggle latches

PROGRAM 6000



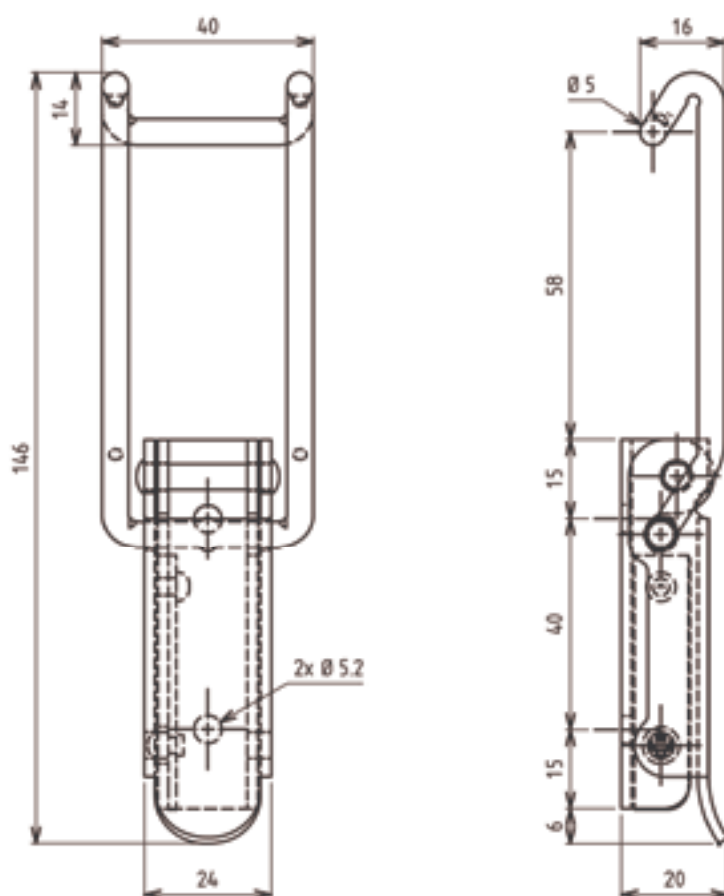
Toggle latch with corner function

	Without padlock-facility	With padlock-facility
Zinc plated steel DS plus Top Coat drilled	6006-U46-JQ	6006-U47-JQ



Further parts see page
possible catch plates
6010-12-xxx
6010-958-xxx

9A-620
9A-660



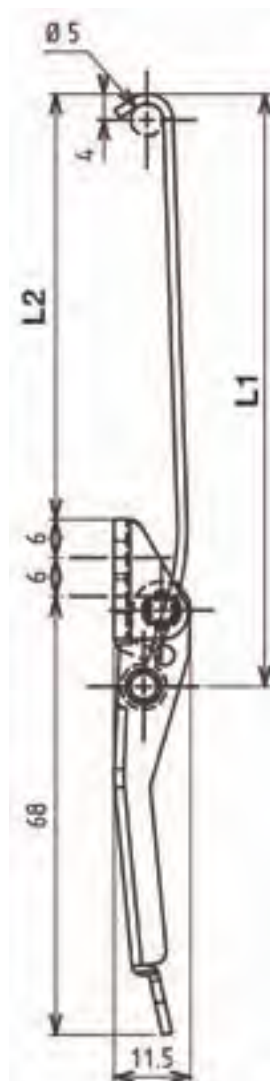
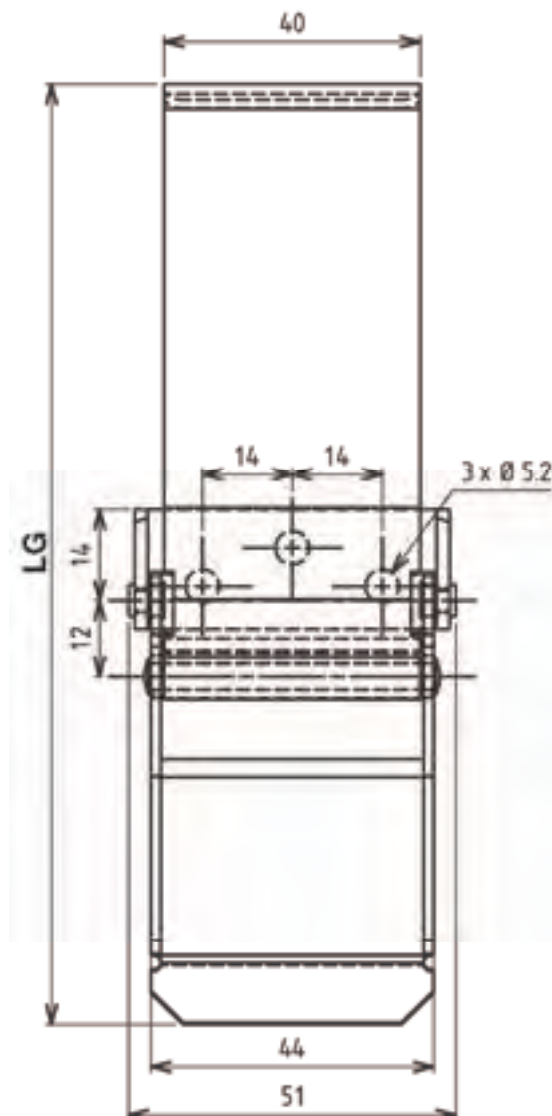
Toggle latch

	Without padlock-facility
Raw steel drilled	6006-U76-KA
Zinc plated steel DS plus Top Coat drilled	6006-U76-JQ



Further parts see page
possible catch plates
6010-12-xxx
6010-958-xxx

9A-620
9A-660



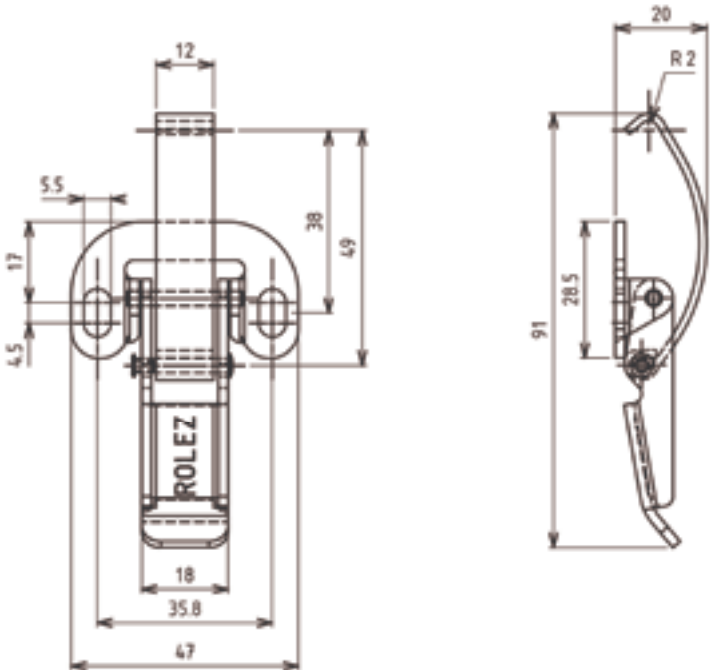
Further parts see page
possible catch plates

6010-18-xxx	9A-560
6010-261-xxx	9A-580
6010-690-xxx	9A-580
6010-694-xxx	9A-580

Toggle latch	LG	L1	L2	Without padlock-facility	With padlock-facility
Zinc plated steel DS plus Top Coat drilled	110	56	29	6007-U689-56JQ	
AISI 304 drilled	110	56	29	6007-U689-56PC	
Zinc plated steel DS plus Top Coat drilled	120	67	39	6007-U689-67JQ	6007-U692-67JQ
AISI 304 drilled	120	67	39	6007-U689-67PC	6007-U692-67PC
Zinc plated steel DS plus Top Coat drilled	131	77	50	6007-U689-77JQ	
AISI 304 drilled	131	77	50	6007-U689-77PC	
Zinc plated steel DS plus Top Coat drilled	147	93	66	6007-U689-93JQ	
AISI 304 drilled	147	93	66	6007-U689-93PC	

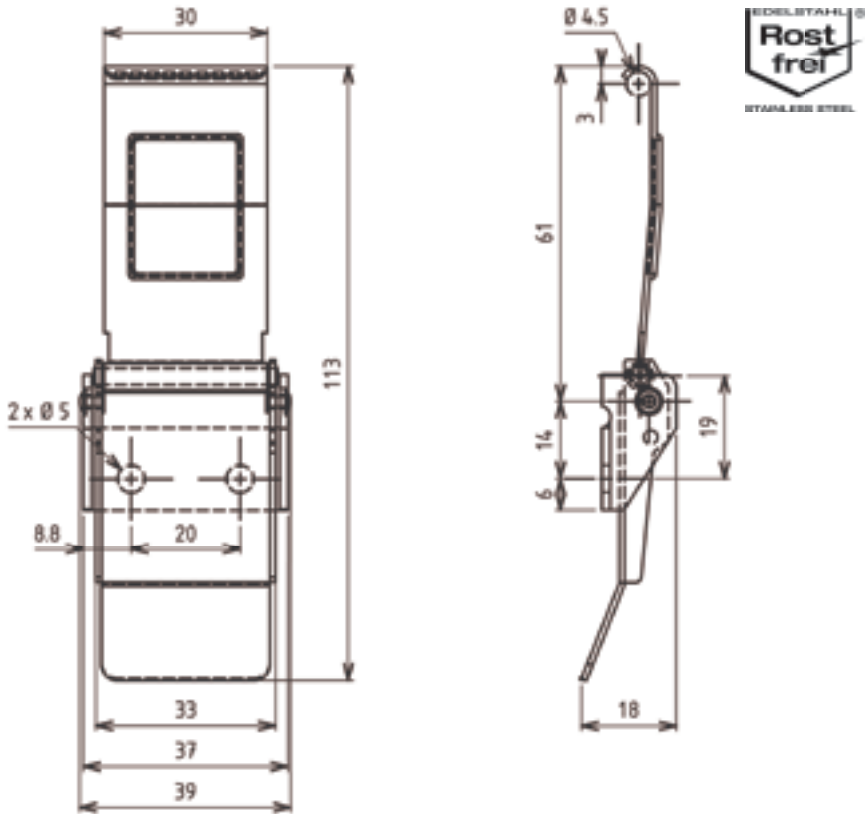
PROGRAM 6000

Beschlagteile



Further parts see page
possible catch plates
6010-01-xxx 9A-520
6010-05-xxx 9A-540
6010-316-xxx 9A-570

Toggle latch		
Zinc plated steel DS plus Top Coat drilled		6007-U435-JQ
AISI 304 drilled		6007-U435-PC



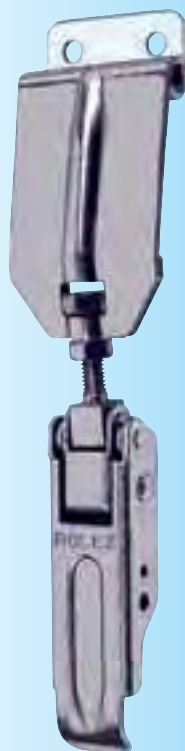
Further parts see page
possible catch plates
6010-241-xxx 9A-570
6010-866-xxx 9A-580

Toggle latch		
Zinc plated steel DS plus Top Coat drilled		6007-U80-JQ
AISI 304 drilled		6007-U80-PC



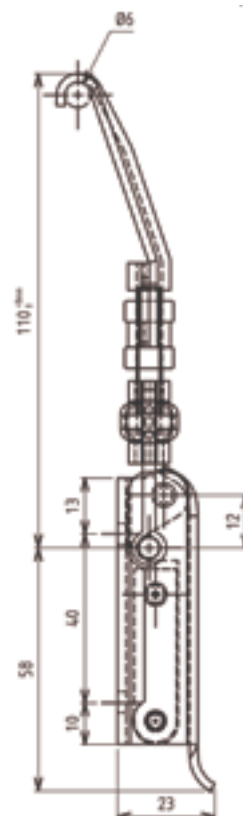
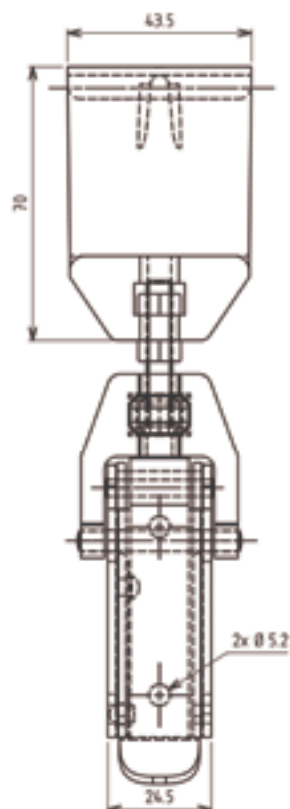
Further parts see page
possible catch plates
6010-18-xxx
6010-261-xxx

9A-560
9A-580



Further parts see page
possible catch plates
6010-18-xxx
6010-261-xxx

9A-560
9A-580

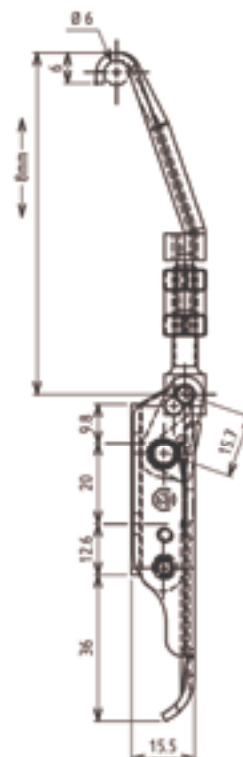
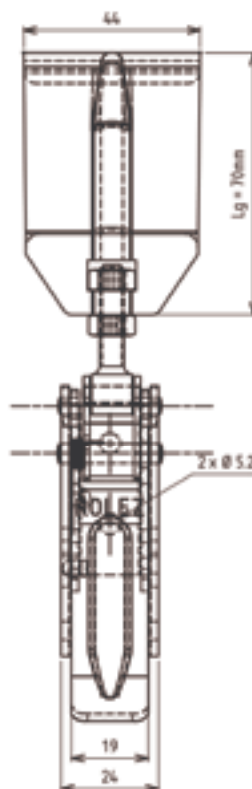


Toggle latch

Without padlock-
facility

Zinc plated steel DS plus Top Coat drilled

6008-U364-JQ



Toggle latch

Without locking
latch

With locking latch

Zinc plated steel DS plus Top Coat drilled

6008-U365-JQ

6008-U865-JQ

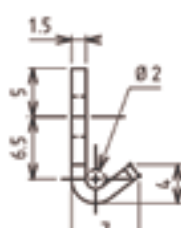
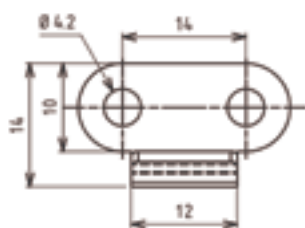
AISI 304 drilled

6008-U365-PC

6008-U865-PC

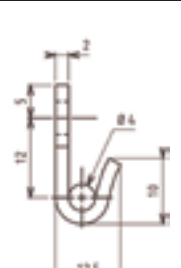
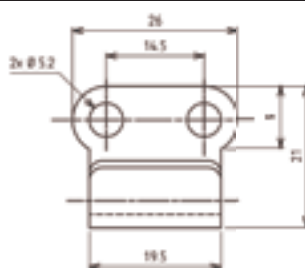
Catch plate

PROGRAM 6000



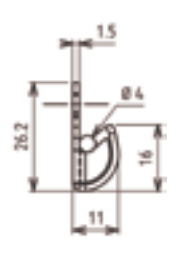
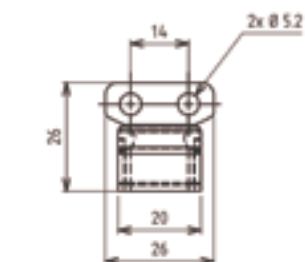
Catch plate

Raw steel drilled	6010-01-KA
Raw steel undrilled	6010-01-01KA
Zinc plated steel DS plus Top Coat drilled	6010-01-JQ
AISI 304 drilled	6010-01-PC
AISI 304, undrilled	6010-01-01PC



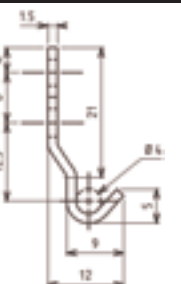
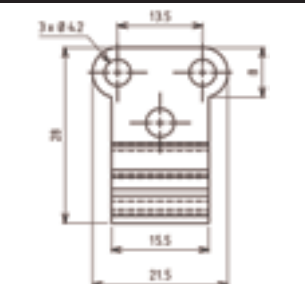
Catch plate

Raw steel drilled	6010-02-KA
Raw steel undrilled	6010-02-01KA
Zinc plated steel DS plus Top Coat drilled	6010-02-JQ
AISI 304 drilled	6010-02-PC
AISI 304, undrilled	6010-02-01PC



Catch plate

Raw steel drilled	6010-03-KA
Zinc plated steel DS plus Top Coat drilled	6010-03-JQ
AISI 304 drilled	6010-03-PC



Catch plate

Raw steel drilled	6010-04-KA
Zinc plated steel DS plus Top Coat drilled	6010-04-JQ
AISI 304 drilled	6010-04-PC



Further parts see page
– Toggle latch

9A-120
9A-140
9A-310



Further parts see page
– Toggle latch

9A-120



Further parts see page
– Toggle latch

9A-120



Further parts see page
– Toggle latch

9A-220
9A-240

9A-520

(9A-500)

Catch plate PROGRAM 6000

Beschlagteile



Further parts see page
– Toggle latch

9A-260



Further parts see page
– Toggle latch

9A-120
9A-140



Further parts see page
– Toggle latch

9A-220
9A-240
9A-310

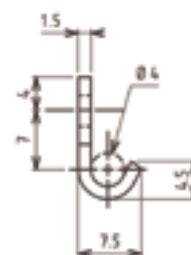
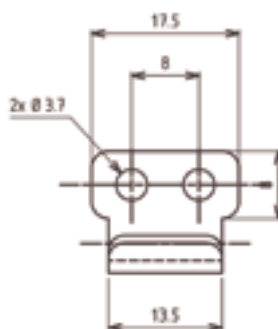


Further parts see page
– Toggle latch

9A-220
9A-240

9A-540

(9A-500; 9A-520)



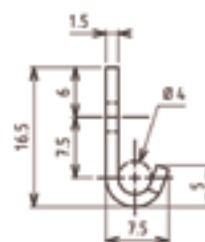
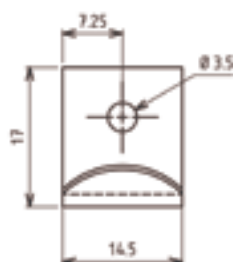
Catch plate

Zinc plated steel DS plus Top Coat drilled

6010-07-JQ

AISI 304 drilled

6010-07-PC



Catch plate

Raw steel drilled

6010-11-KA

Bare steel undrilled

6010-11-01KA

Zinc plated steel DS plus Top Coat drilled

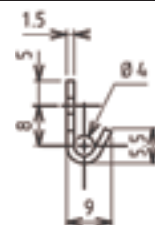
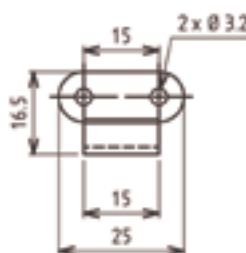
6010-11-JQ

AISI 304 drilled

6010-11-PC

AISI 304, undrilled

6010-11-01PC



Catch plate

Bare steel drilled

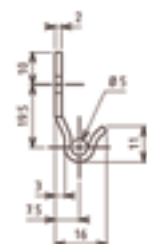
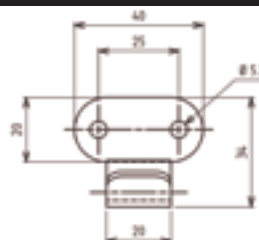
6010-05-KA

Zinc plated steel DS plus Top Coat drilled

6010-05-JQ

AISI 304 drilled

6010-05-PC



Catch plate

Raw steel drilled

6010-06-KA

Zinc plated steel DS plus Top Coat drilled

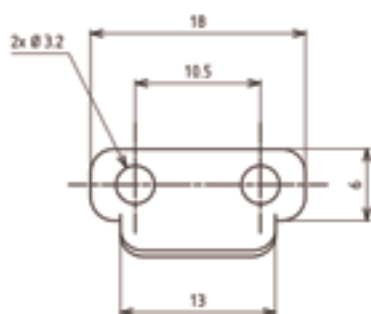
6010-06-JQ

AISI 304 drilled

6010-06-PC

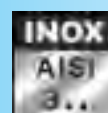
Catch plate

PROGRAM 6000



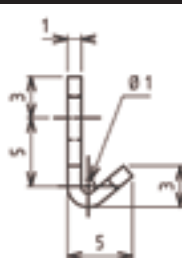
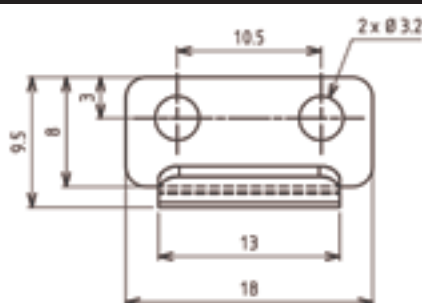
Catch plate

Raw steel drilled	6010-200-KA
Zinc plated steel DS plus Top Coat drilled	6010-200-JQ
AISI 304 drilled	6010-200-PC



Further parts see page
– Toggle latch

9A-260



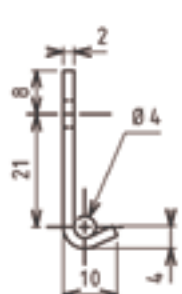
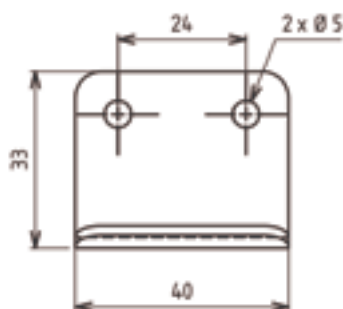
Catch plate

Raw steel drilled	6010-139-KA
Zinc plated steel DS plus Top Coat drilled	6010-139-JQ
AISI 304 drilled	6010-139-PC



Further parts see page
– Toggle latch

9A-140



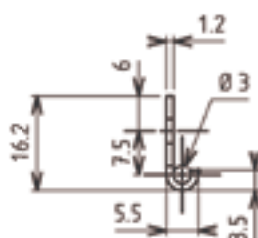
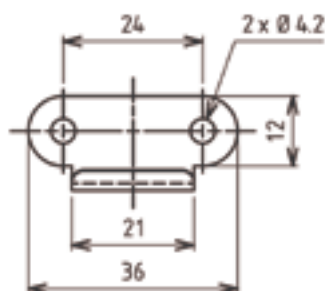
Catch plate

Raw steel drilled	6010-18-KA
Zinc plated steel DS plus Top Coat drilled	6010-18-JQ
AISI 304 drilled	6010-18-PC



Further parts see page
– Toggle latch

9A-320



Catch plate

Zinc plated steel DS plus Top Coat drilled	6010-20-JQ
AISI 304 drilled	6010-20-PC



Further parts see page
– Toggle latch

9A-260

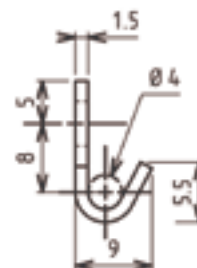
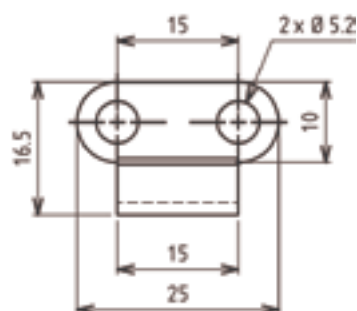
Catch plate PROGRAM 6000

Beschlagteile



Further parts see page
– toggle latch

9A-220
9A-240
9A-310



Catch plate

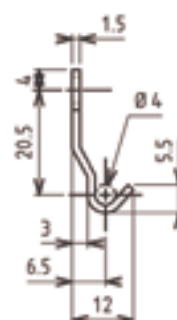
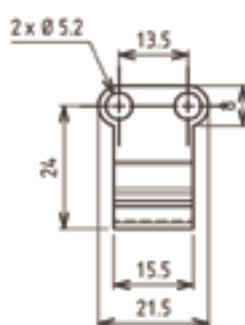
Zinc plated steel DS plus Top Coat drilled

6010-316-JQ



Further parts see page
– Toggle latch

9A-220
9A-240



Catch plate

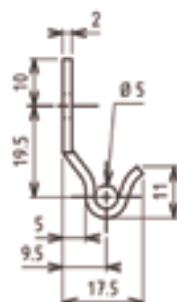
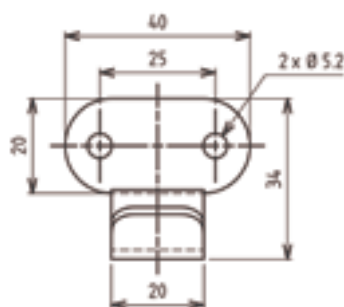
Zinc plated steel DS plus Top Coat drilled

6010-243-JQ



Further parts see page
– Toggle latch

9A-220
9A-240



Catch plate

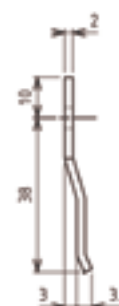
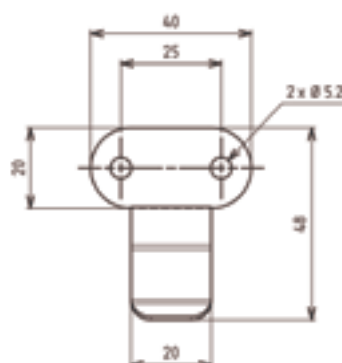
Zinc plated steel DS plus Top Coat drilled

6010-315-JQ



Further parts see page
– Toggle latch

9A-310



Hook

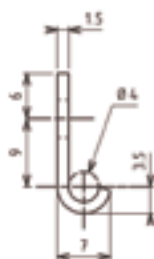
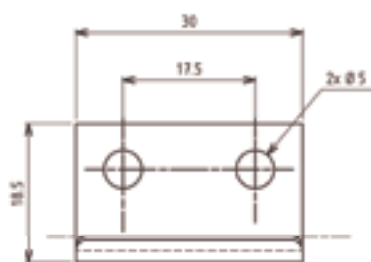
Zinc plated steel DS plus Top Coat drilled

6010-241-JQ

9A-570

Catch plate

PROGRAM 6000



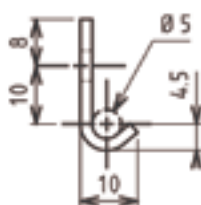
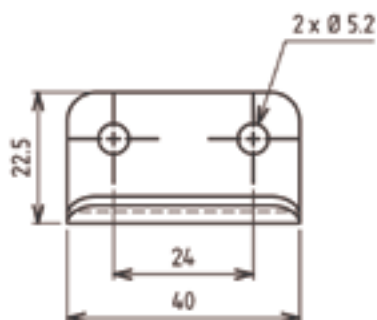
Catch plate

Zinc plated steel DS plus Top Coat drilled

6010-866-JQ

AISI 304 drilled

6010-866-PC



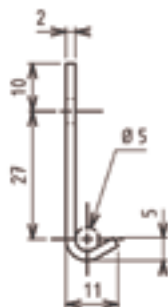
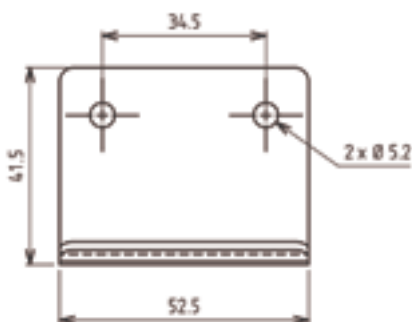
Catch plate

Zinc plated steel DS plus Top Coat drilled

6010-261-JQ

AISI 304 drilled

6010-261-PC



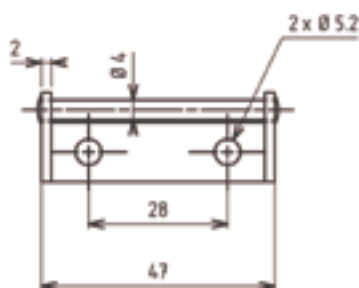
Catch plate

Zinc plated steel DS plus Top Coat drilled

6010-690-JQ

AISI 304 drilled

6010-690-PC



Catch plate

Zinc plated steel DS plus Top Coat drilled

6010-694-JQ

AISI 304 drilled

6010-694-PC



Further parts see page
– Toggle latch

9A-310



Further parts see page
– Toggle latch

9A-300
9A-320



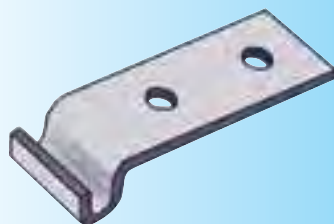
Further parts see page
– Toggle latch

9A-300



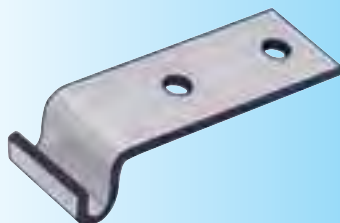
Further parts see page
– Toggle latch

9A-300



Further parts see page
– Toggle latch

9A-120
9A-140
9A-220



Further parts see page
– Toggle latch

9A-120
9A-220
9A-240

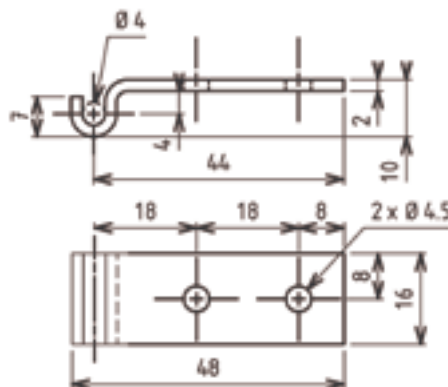


Further parts see page
– Toggle latch

9A-160
9A-180
9A-200
9A-220
9A-230
9A-240
9A-280

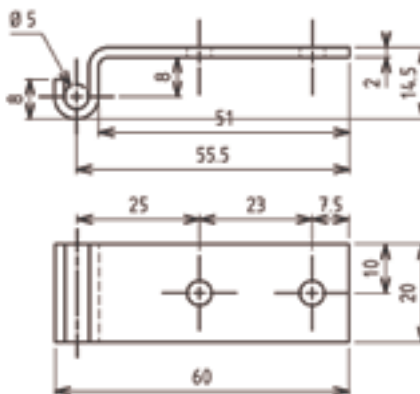
9A-620

(9A-520)



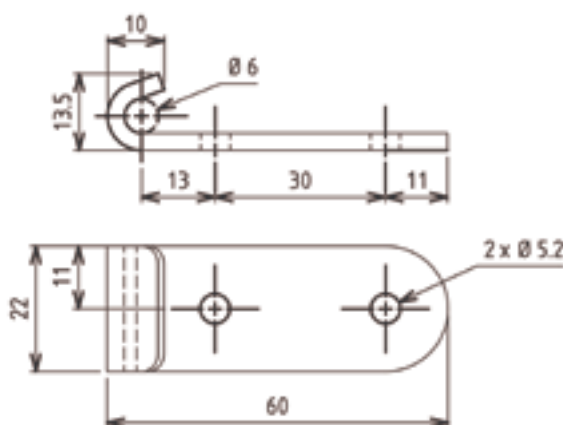
Catch plate

Raw steel drilled	6010-08-KA
Raw steel undrilled	6010-08-01KA
Zinc plated steel DS plus Top Coat drilled	6010-08-JQ
AISI 304 drilled	6010-08-PC
AISI 304, undrilled	6010-08-01PC



Catch plate

Raw steel drilled	6010-09-KA
Raw steel undrilled	6010-09-01KA
Zinc plated steel DS plus Top Coat drilled	6010-09-JQ
AISI 304 drilled	6010-09-PC
AISI 304, undrilled	6010-09-01PC

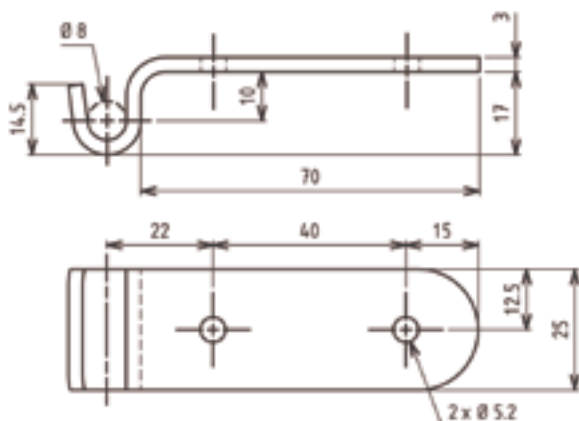


Catch plate

Raw steel drilled	6010-12-KA
Zinc plated steel DS plus Top Coat drilled	6010-12-JQ
AISI 304 drilled	6010-12-PC

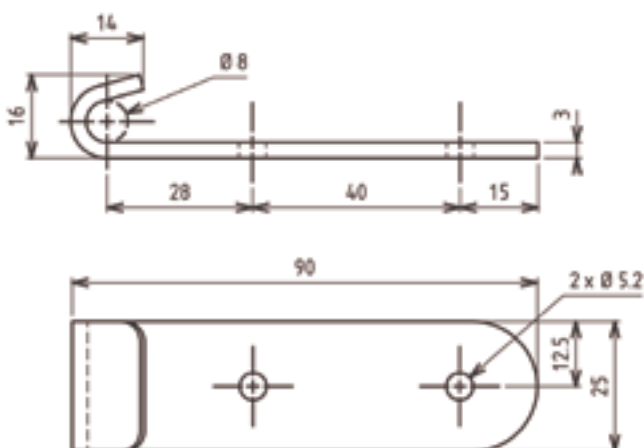
Catch plate

PROGRAM 6000



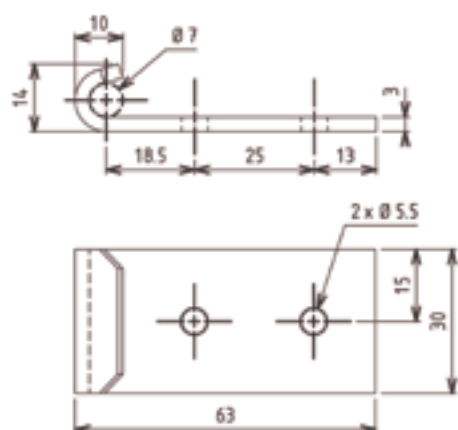
Catch plate

Raw steel drilled	6010-13-KA
Zinc plated steel DS plus Top Coat drilled	6010-13-JQ
AISI 304 drilled	6010-13-PC



Catch plate

Raw steel drilled	6010-14-KA
Zinc plated steel DS plus Top Coat drilled	6010-14-JQ
AISI 304 drilled	6010-14-PC



Catch plate

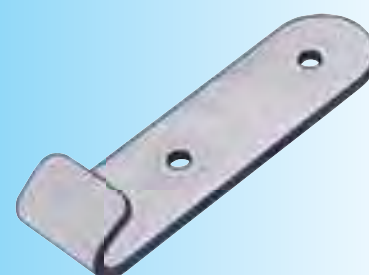
Zinc plated steel DS plus Top Coat drilled	6010-15-JQ
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Further parts see page
– Toggle latch

9A-160
9A-180
9A-200
9A-220
9A-230
9A-240
9A-680

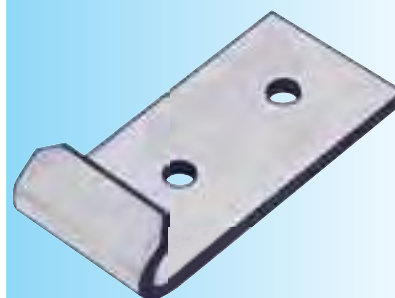
– Back plate



Further parts see page
– Toggle latch

9A-160
9A-180
9A-200
9A-220
9A-230
9A-240
9A-680

– Back plate



Further parts see page
– Toggle latch

9A-230

9A-640

(9A-540)

Catch plate PROGRAM 6000

Beschlagteile



Further parts see page
– Toggle latch

9A-160
9A-230



Further parts see page
– toggle latch

9A-160
9A-230

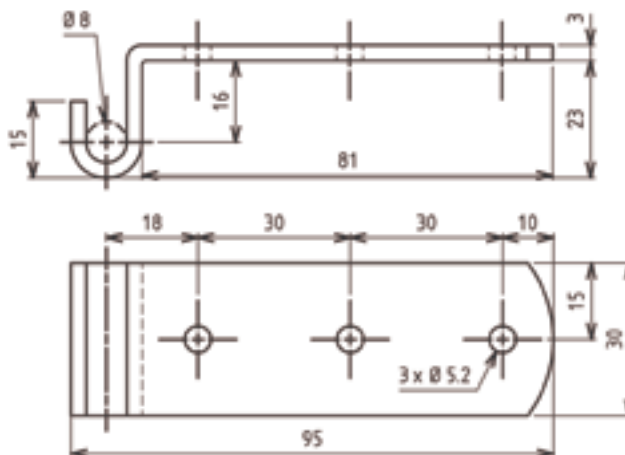


Further parts see page
– Toggle latch

9A-160
9A-180
9A-200
9A-220
9A-230
9A-240
9A-280

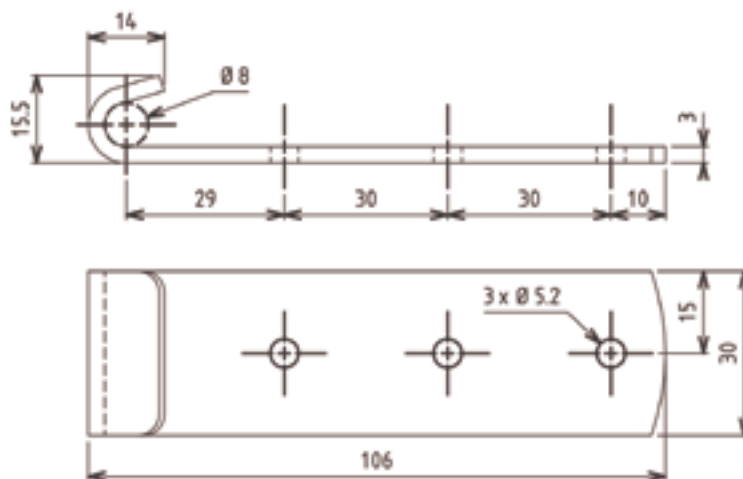
9A-660

(9A-540)



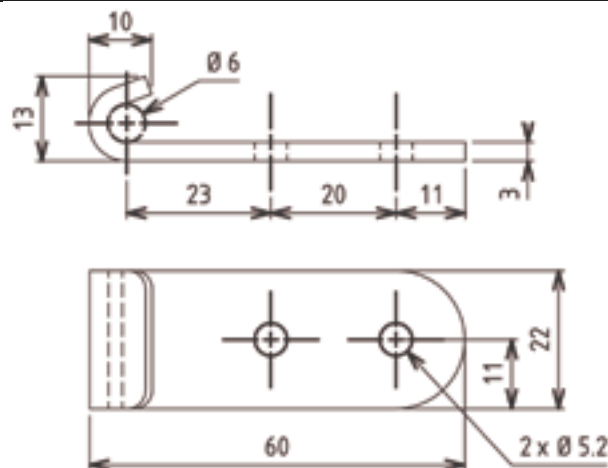
Catch plate

Raw steel drilled	6010-16-KA
Zinc plated steel DS plus Top Coat drilled	6010-16-JQ
AISI 304 drilled	6010-16-PC



Catch plate

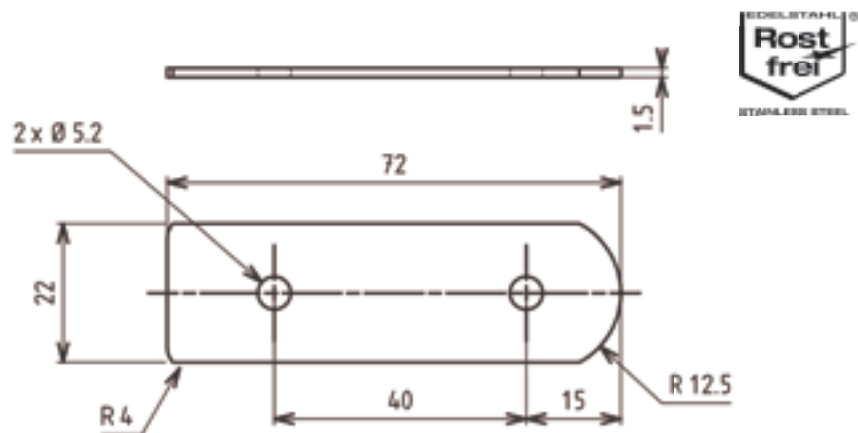
Raw steel drilled	6010-17-KA
Zinc plated steel DS plus Top Coat drilled	6010-17-JQ
AISI 304 drilled	6010-17-PC



Catch plate

Zinc plated steel DS plus Top Coat drilled	6010-958-JQ
AISI 304 drilled	6010-958-PC

Back plate
PROGRAM 6000



Back plate for toggle latch and Catch plate

Raw Steel	6042-82-KA
Zinc plated steel DS plus Top Coat drilled	6042-82-JQ
AISI 304	6042-82-PC

Beschlagteile



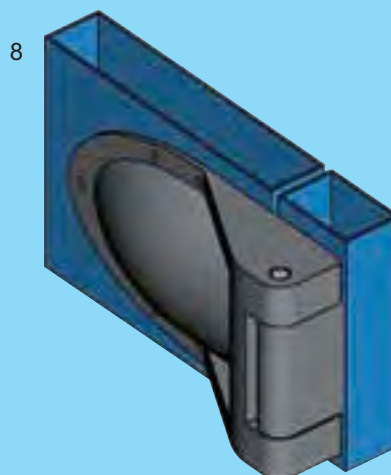
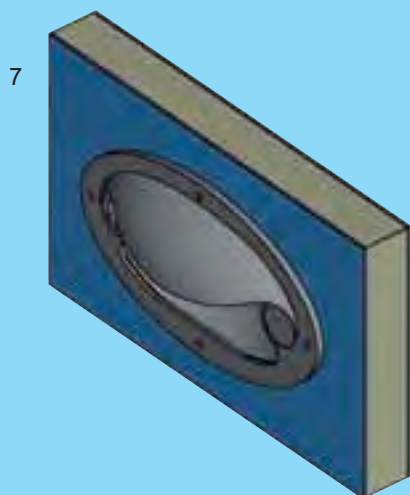
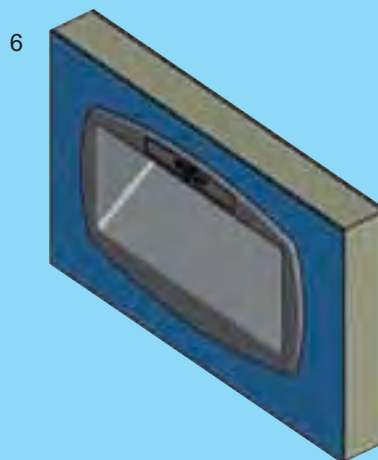
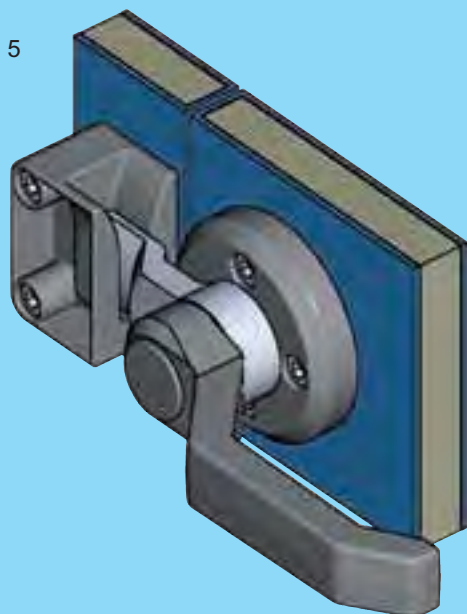
Further parts see page

- Toggle latch 9A-180
- Catch plate 9A-640

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Gasketing
6 Handles
7 Aluminium windows
8 Stainless steel
9 Latches
10 Air-conditioning

Air-Conditioning Program 1091





- 1 Heavy Duty latch with mild steel shaft
- 2 Heavy Duty latch
- 3 Lift and turn latch
- 4 Heavy Duty latch
- 5 Heavy Duty latch, outside the door
- 6 Pull
- 7 Pull with quarter turn
- 8 180° hinge

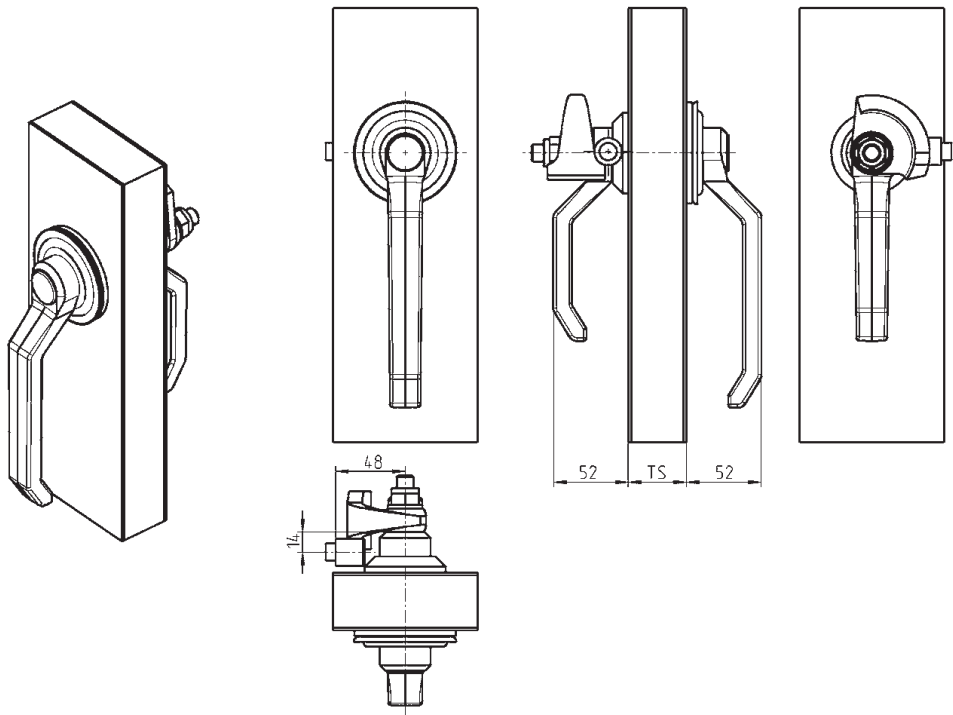
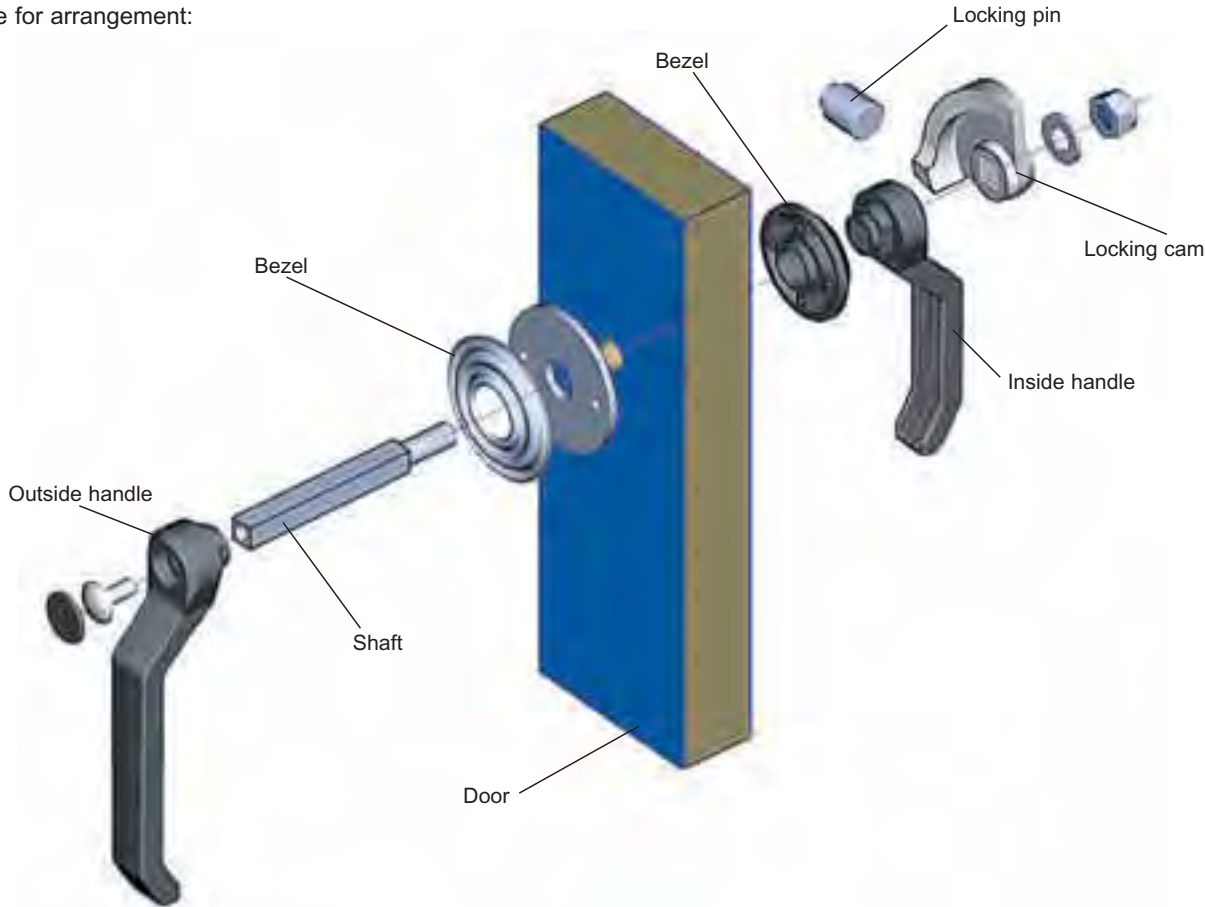
- 10A-120 to 10A-180, 10A-320
 10A-220, 10A-340
 10A-520
 10A-620, 10A-640
 10A-420
 10A-720, 10A-820
 10A-820
 10A-840

10A-100

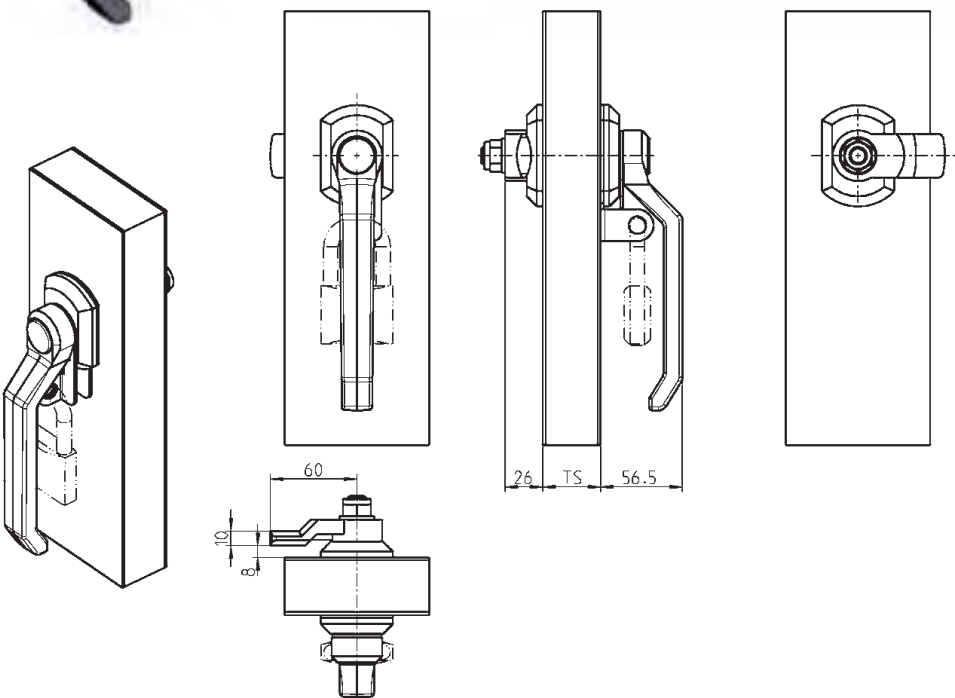
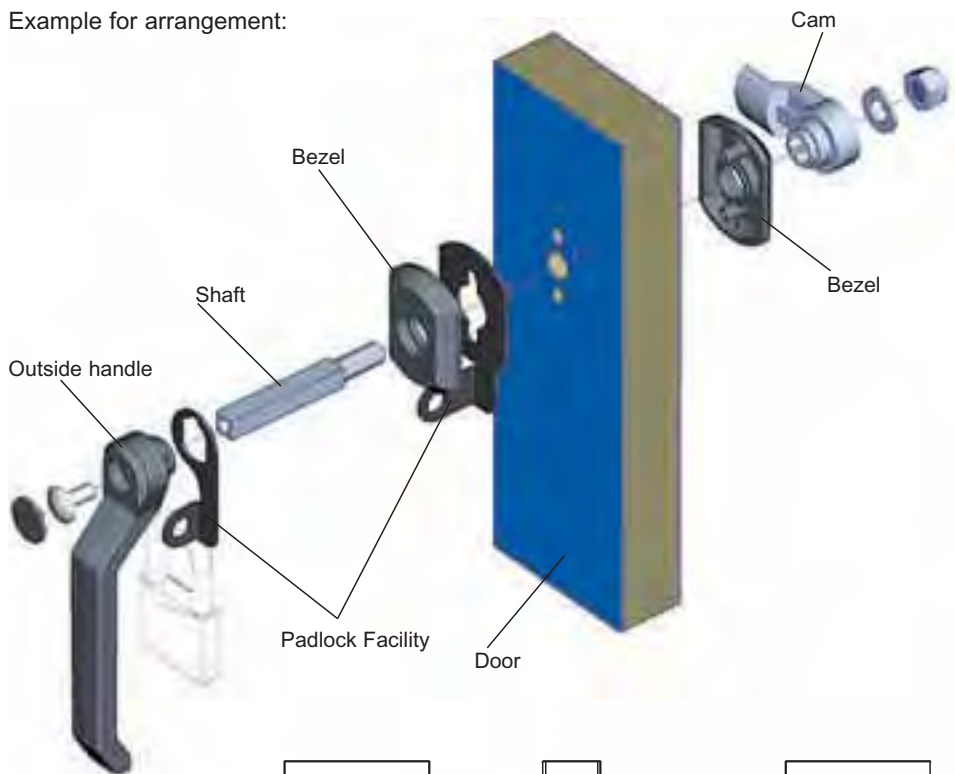
Heavy duty latch with m.s. shaft

PROGRAM 1091

Example for arrangement:



Example for arrangement:



Heavy duty latch consisting of:

Shaft m.s. zinc plated, screw M8, washer A13, Nyloc nut M12, m.s. zinc plated and plastic plug black polyamide

Ts	20	30	40	50	60	80	100	Tolerance
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for cam and inside handle

1091-U8	1091-U9	1091-U10	1091-U11	1091-U12	1091-U13	1091-U14	± 5
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for cam without inside handle

1091-U6	1091-U7	1091-U8	1091-U9	1091-U10	1091-U12	1091-U13	± 10
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for inside handle, or spacer and locking cam

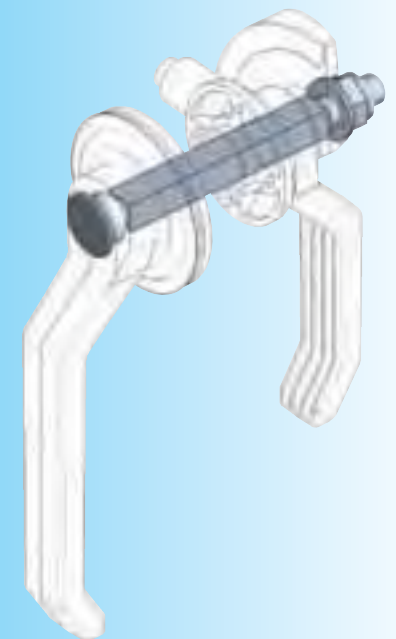
1091-U8	1091-U9	1091-U10	1091-U11	1091-U12	1091-U13	1091-U14	± 5
---------	---------	----------	----------	----------	----------	----------	-----

Further parts see page

– Handle	10A-140
– Bezel	10A-180
– Locking cam	10A-160
– Cam	10A-160

10A-120

(6B-120)

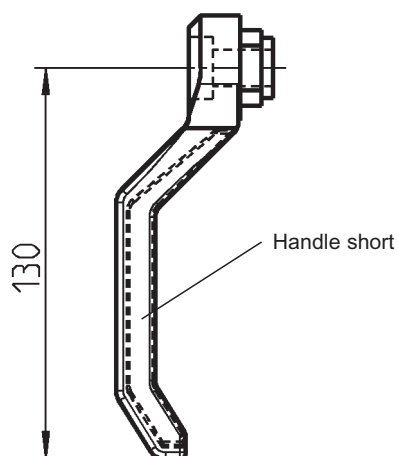
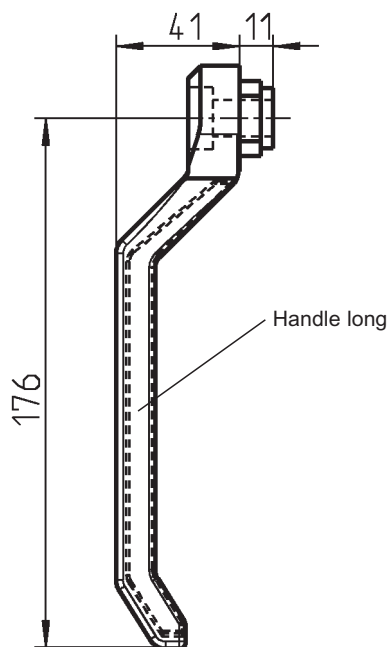


RL

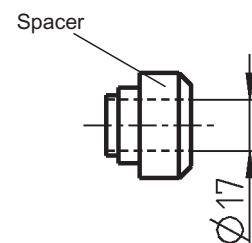
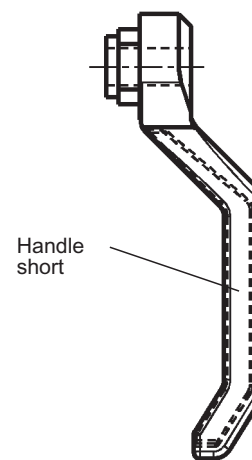
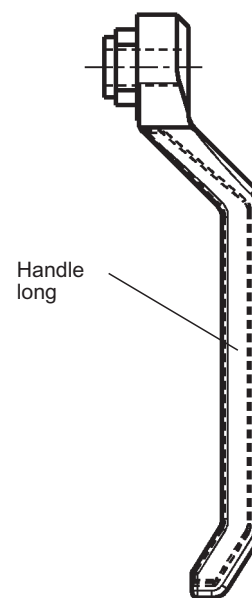


Handle

Outside



Inside



Attention:

If you do not use the inside handle, you need the spacer

Further parts see page

- Heavy duty latch 10A-120
- Heavy duty latch, outside the door 10A-420

Handle long, Polyamide black	1091-20
Handle long, Polyamide black with embedded steel	1091-22
Handle short, Polyamide black	1091-21
Handle short, Polyamide black with embedded steel	1091-23

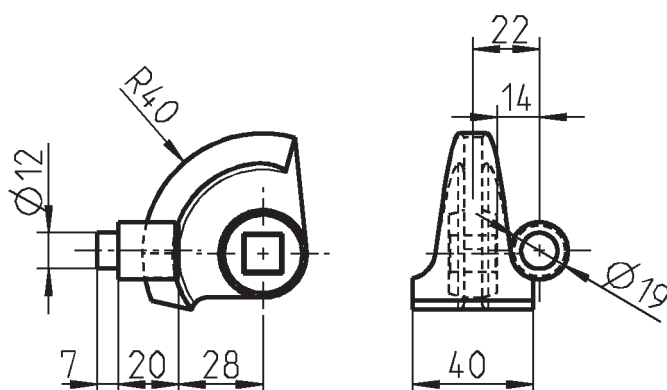
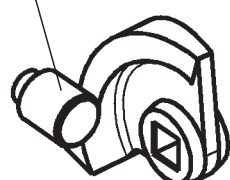
Handle long, Polyamide black	1091-24
Handle long, Polyamide black with embedded steel	1091-26
Handle short, Polyamide black	1091-25
Handle short, Polyamide black with embedded steel	1091-27
Spacer (replaces handle), m.s. zinc plated	1091-28

Accessories for heavy duty latch

PROGRAM 1091

Locking cam

Locking pin



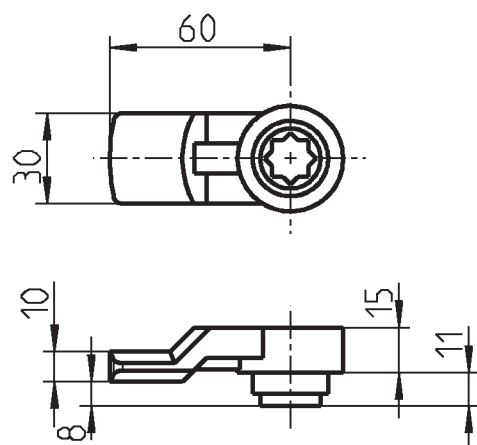
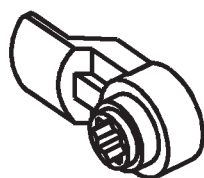
Locking cam zinc die

1091-04

Locking stud m.s. zinc plated

1091-01

Cam



Cam zinc die zinc plated

1091-18

Cam Polyamide GF Black

1091-18-01

RL



Further parts see page

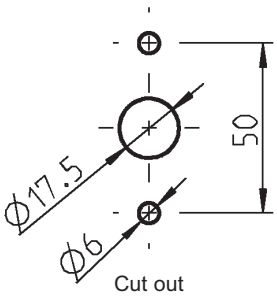
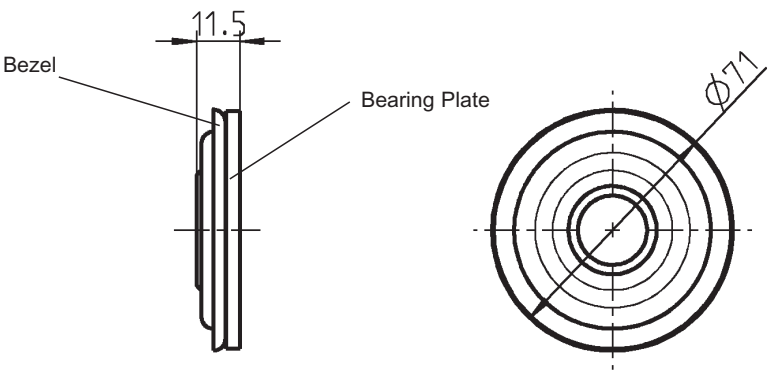
- Heavy duty latch 10A-120
- Heavy duty latch, outside the door 10A-220
- Heavy duty latch, outside the door 10A-420

10A-160

(6B-135)

Accessories for heavy duty latch

PROGRAM 1091

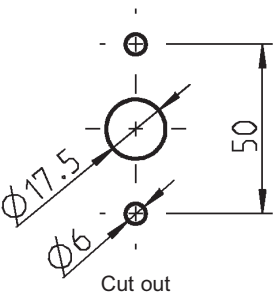
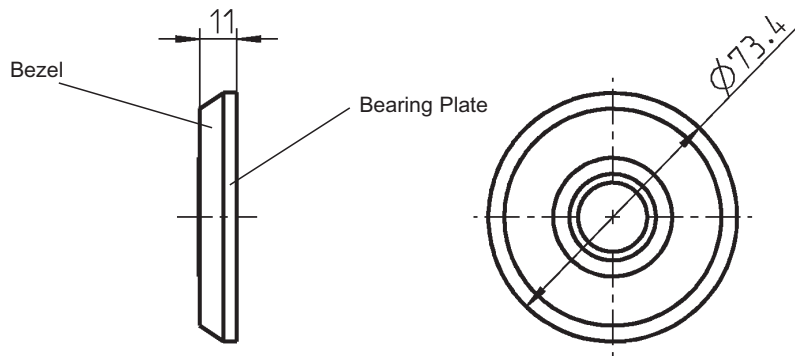


Bezel, m.s. zinc plated

1091-07

Bearing plate, m.s. zinc plated

1091-06

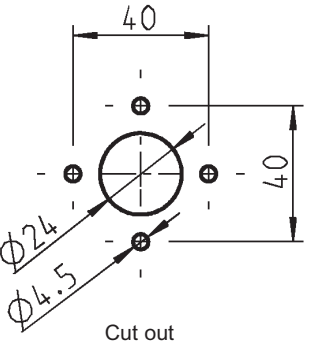
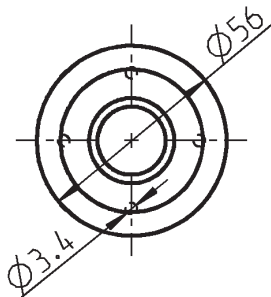
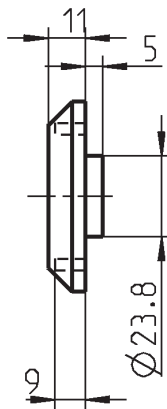


Bezel, polyamide GF black

1091-31

Bearing plate, m.s. zinc plated

1091-06



Bezel, polyamide GF black

1091-30

R L RL



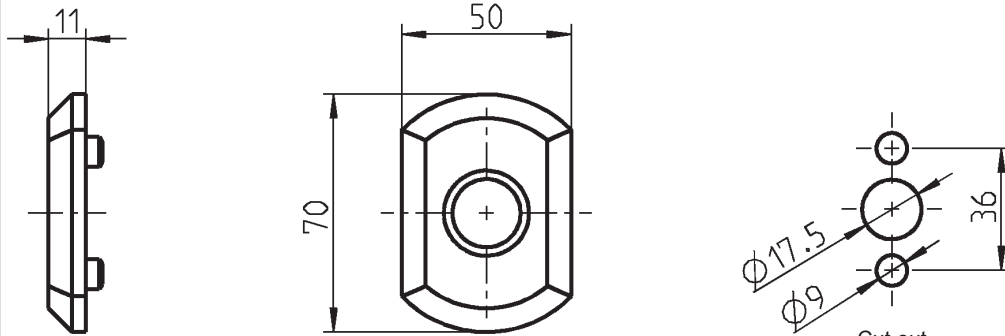
Enclosure:
IP65 on request

Further parts see page
– Heavy duty latch

10A-120
10A-220
10A-320
10A-340

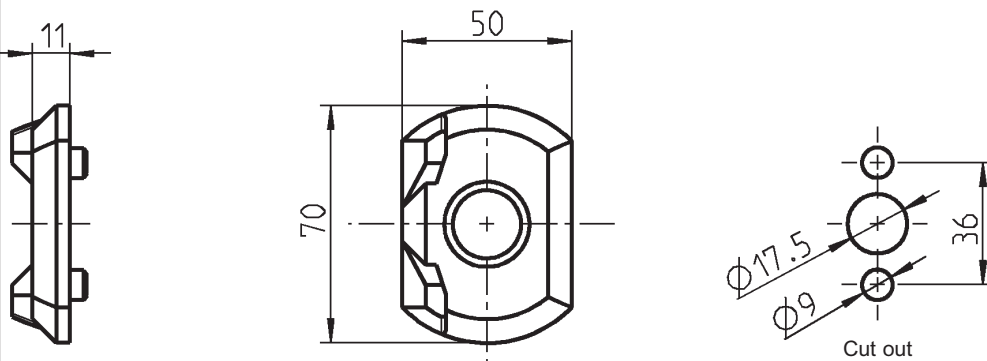
10A-180

(6B-140)



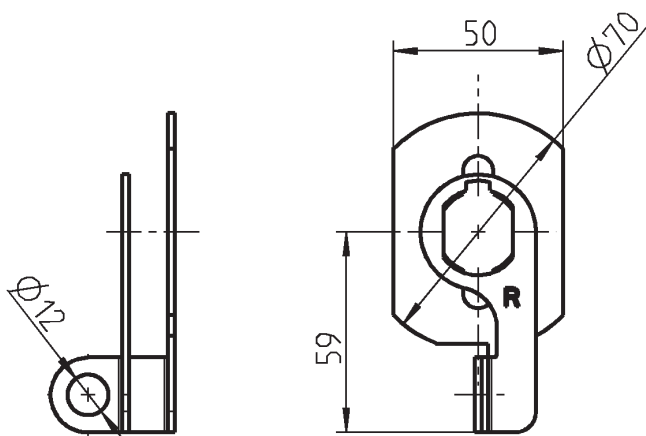
Bezel, polyamide GF black

1091-17



Bezel with dogs, Polyamide GF black

1091-17-01



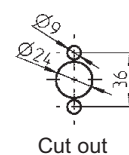
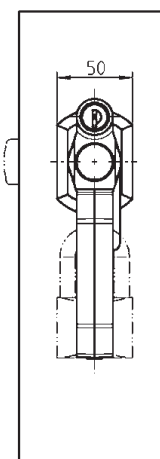
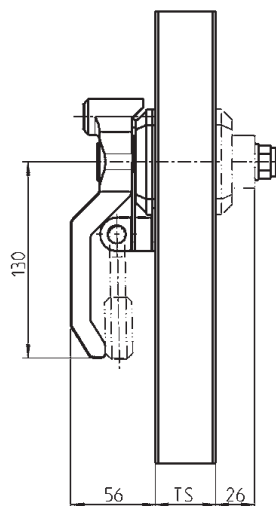
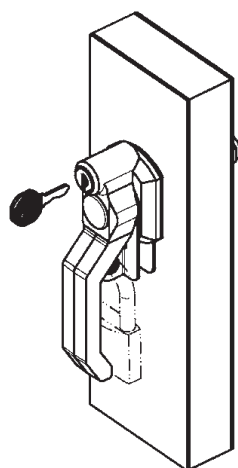
Padlock facility, m.s. black powder coated

RH version

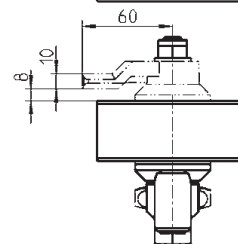
1091-U86

LH version

1091-U87



Cut out



Handle Polyamide GF black for m.s. shaft, round cylinder zinc die with stainless steel cap and dust cover, insert zinc die chrome plated

keyed EK 333	1091-U50	keyed different	1091-U51
Square 7	1091-U52	Square 8	1091-U53
Triangular 8	1091-U54	Double bit 3	1091-U55
Double bit 5	1091-U56	Slot 2 x 4	1091-U57

(order separately)

Bezel Polyamide black for lockable handle

180°-stopper	1091-17-03	90°-stopper, LH	1091-17-04
90°-stopper, RH	1091-17-05		

Shaft m.s., screw, nut M12 and washer A13 m.s. zinc plated, blind plug Polyamide GF black

Ts	20	30	40	50	60	80	100
for cam							
	1091-U6	1091-U7	1091-U8	1091-U9	1091-U10	1091-U12	1091-U13
for spacer and locking cam							
	1091-U8	1091-U9	1091-U10	1091-U11	1091-U12	1091-U13	1091-U14

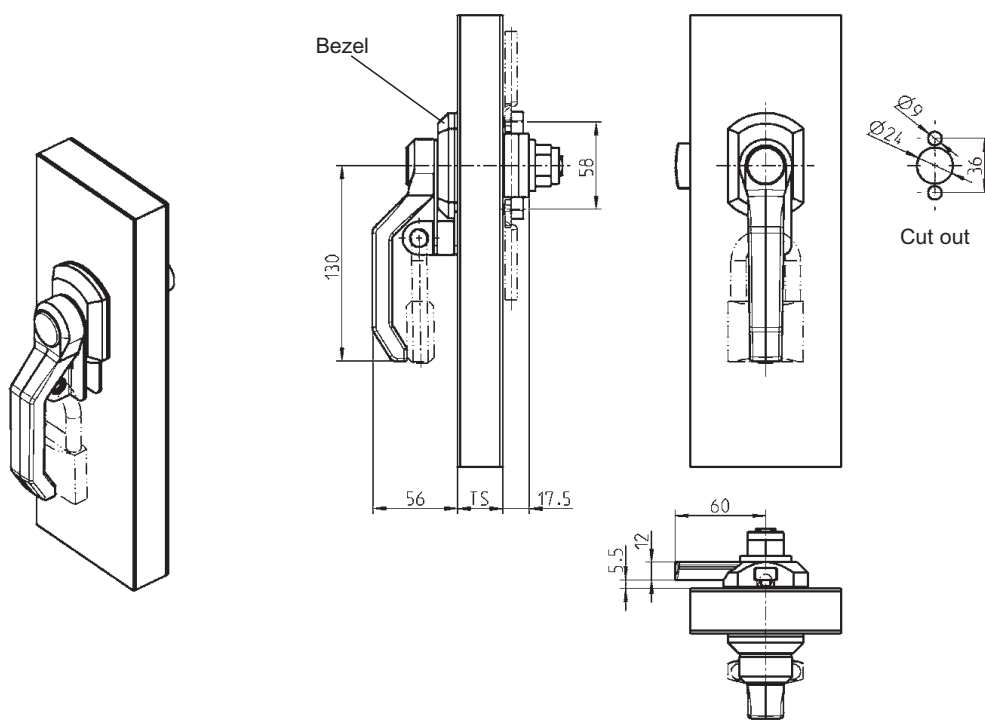
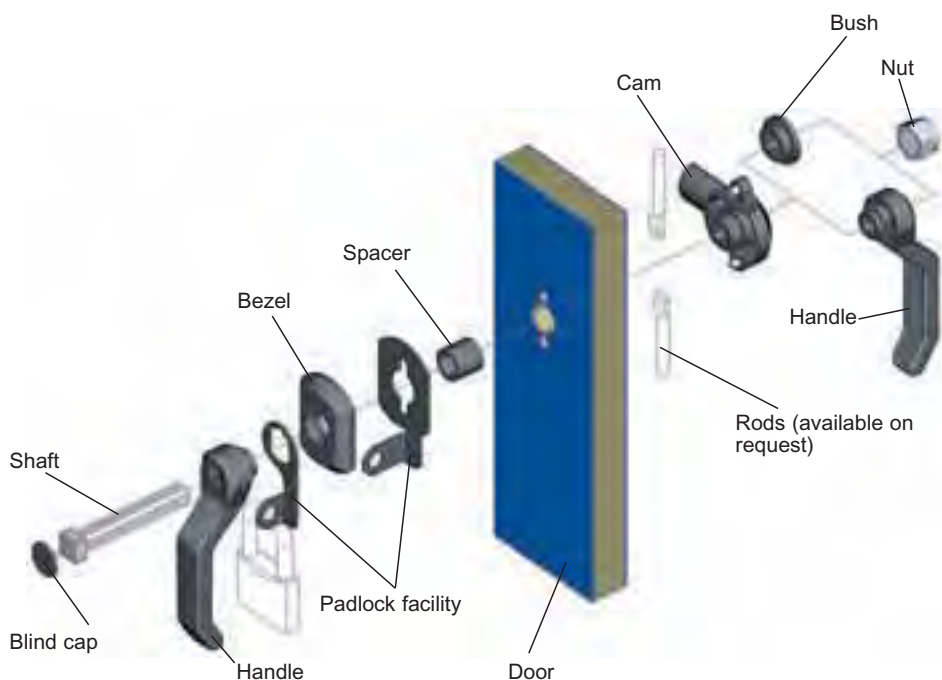
Other inserts available on request

Further parts see page

- Cam	10A-160
- Locking cam	10A-160
- Spacer	10A-140
- Padlock facility	10A-180
- Key	12B-120
- Spare key	12B-140

Heavy duty latch with zinc die shaft PROGRAM 1091

Example for arrangement



Attention:
If an internal handle is installed, the maximum door gauge is reduced by 10 mm

Handle Polyamide GF black (outside and inside)

1091-42

Shaft zinc die, Nut m.s.zinc plated, cam, spacer, bush and blind plug Polyamide GF black

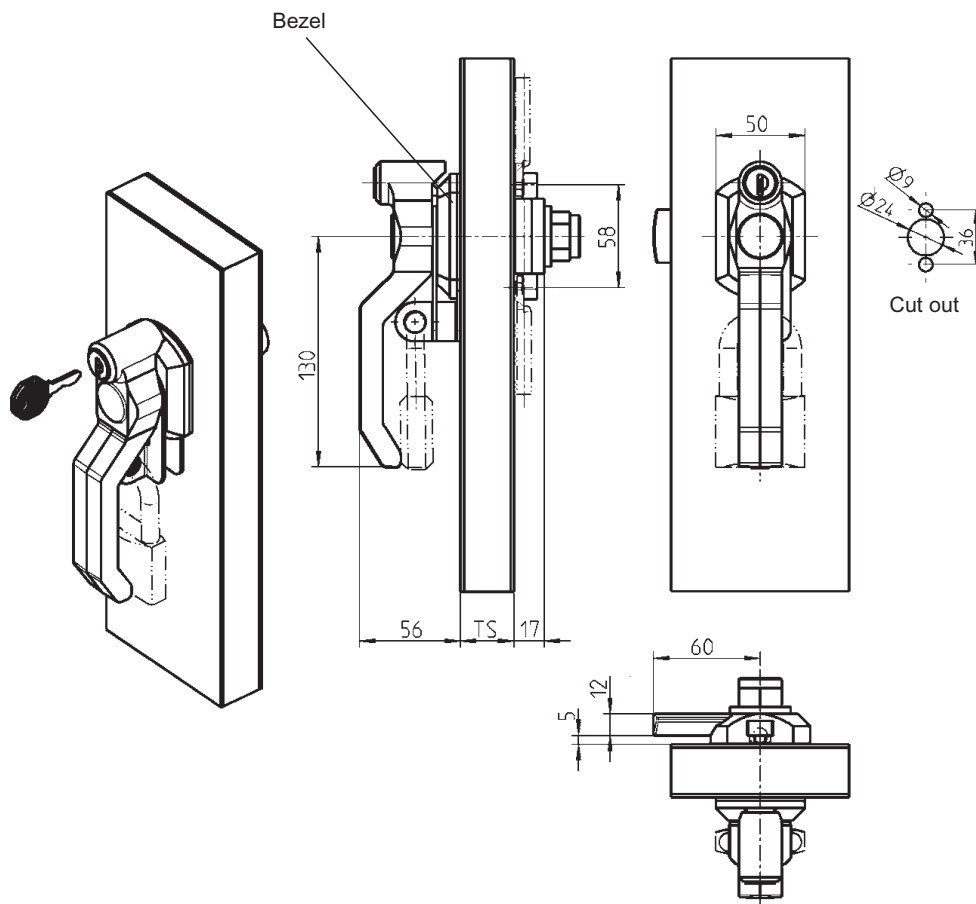
Ts	10 – 30	31 – 50	51 – 70
with single point cam	1091-U80	1091-U81	1091-U82
with 3-point cam	1091-U83	1091-U84	1091-U85

Further parts see page

- Bezel 10A-180
- Padlock facility 10A-180
- Rod on request

10A-320

(6B-160)



Other inserts available on request

Further parts see page

– Padlock facility 10A-180
– Rod on request

– Key 12B-120
– Spare key 12B-140

10A-340

(6B-170)

Handle Polyamide GF black for zinc die shaft, round cylinder zinc die with stainless steel cap and dust cover, insert zinc die chrome plated

keyed EK 333	1091-U72	keyed different	1091-U73
Square 7	1091-U74	Square 8	1091-U75
Triangular 8	1091-U76	Double bit 3	1091-U77
Double bit 5	1091-U78	Slot 2 x 4	1091-U79

(order separately)

Bezel Polyamide black for lockable handle

180°-stopper	1091-17-03	90°-stopper, LH	1091-17-04
90°-stopper, RH	1091-17-05		

Shaft zinc die, nut M12 m.s., cam, spacer, bush and blind plug Polyamide GF black

Ts	10 – 30	31 – 50	51 – 70
with single point cam	1091-U80	1091-U81	1091-U82
with 3-point cam	1091-U83	1091-U84	1091-U85

PROGRAM 1091

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Gasketing

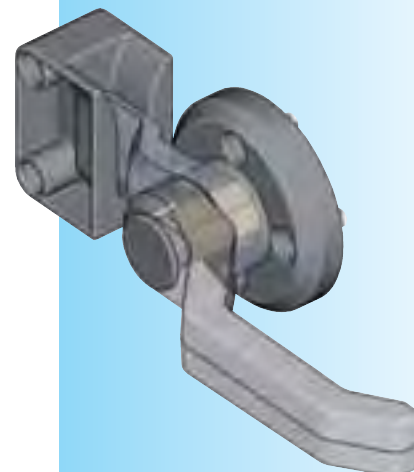
6 Handles

7 Aluminium windows

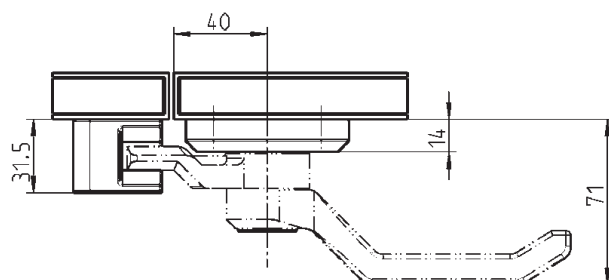
8 Stainless steel

9 Latches

10 Air-conditioning



Combination of:
1091-U121; 1091-96,
handle 1091-21 and
cam 1091-18



*** must order separately**

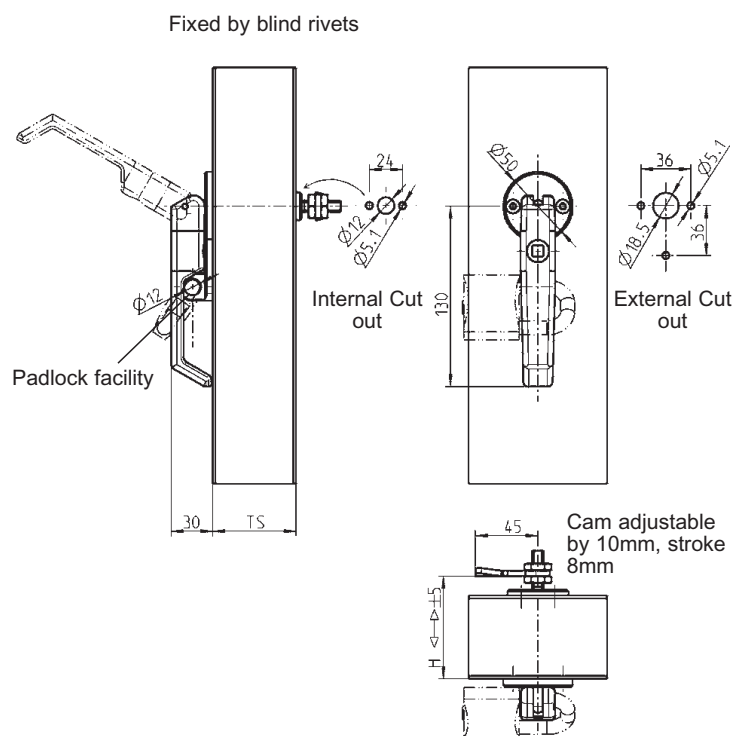
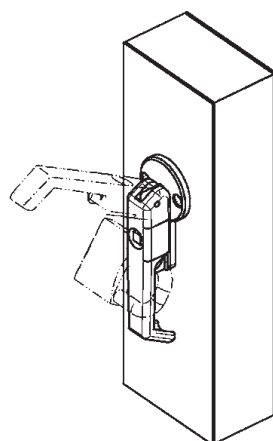
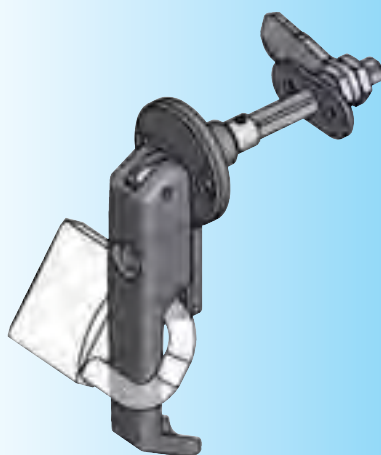
1091-U121

1091-96

Further parts see page

– Outside handle	10A-140
– Cam	10A-160

(6B-190)



Lift and turn handle consisting of Handle Polyamide GF black with shaft m.s. zinc plated, back plate zinc die black, cam for insert m.s. zinc plated, bearing plate zinc die zinc plated, pins and nuts

1091-U95

Cam m.s. zinc plated

straight	1000-203
cranked 10 mm	1000-203
cranked 20 mm	1000-391
cranked 30 mm	1000-390

Insert zinc die chrome plated

Square 6	1121-U11	Double bit 5	1121-U17
Square 7	1121-U12	Daimler Benz	1121-U18
Square 8	1121-U13	Slot 2 x 4	1121-U123
Triangular 7	1121-U14	Eastern European 13 mm dia	1121-U143
Triangular 8	1121-U15	Blind plug	1091-83
Double bit 3	1121-U16	Assembly	1000-990

Shaft m.s. zinc plated (to be pinned to the handle boss)

Ts max.	H-dim. depends on the cam				
	1000 – 390	1000 – 391	1000 – 392	1000 – 203	
40	20 – 30	30 – 40	40 – 50	50 – 60	1091-59-01
60	40 – 50	50 – 60	60 – 70	70 – 80	1091-59-02
80	60 – 70	70 – 80	80 – 90	90 – 100	1091-59-03
100	80 – 90	90 – 100	100 – 110	110 – 120	1091-59-04
120	100 – 110	110 – 120	120 – 130	130 – 140	1091-59-05
140	120 – 130	130 – 140	140 – 150	150 – 160	1091-59-06

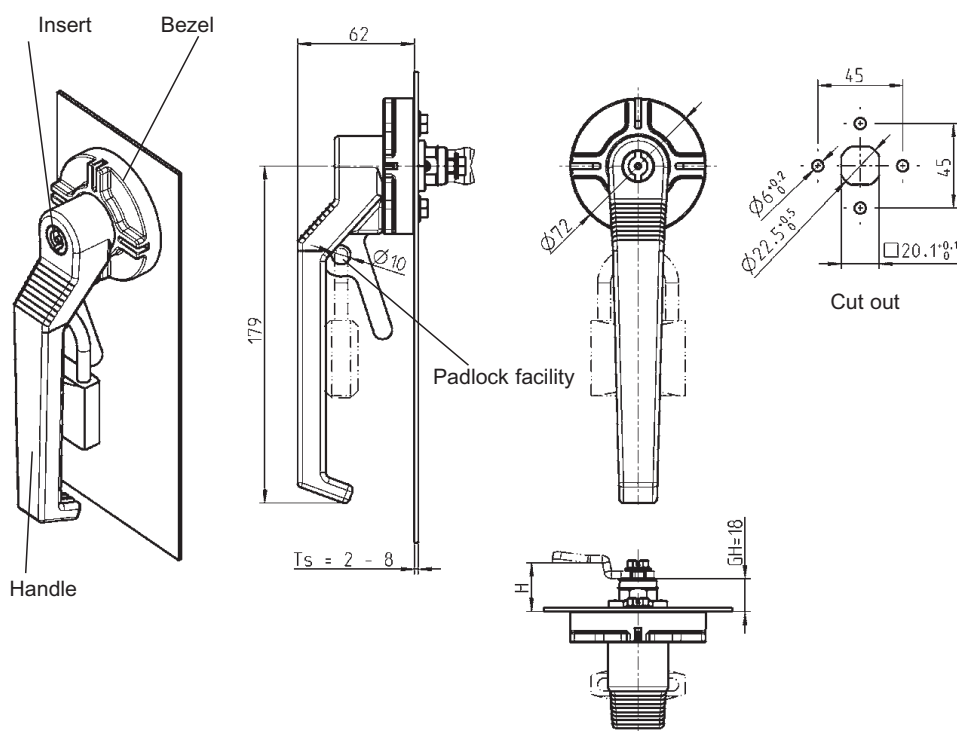
Further parts see page
– Key

12B-120

10A-520

(6B-260)

Heavy duty latch PROGRAM 1091



Insert is spring loaded

Other inserts available on request

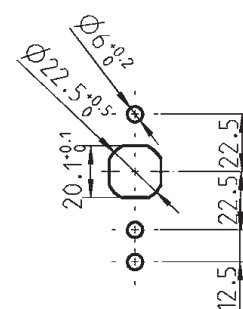
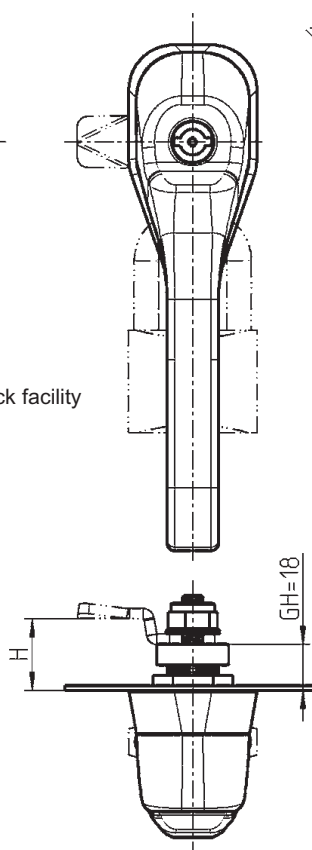
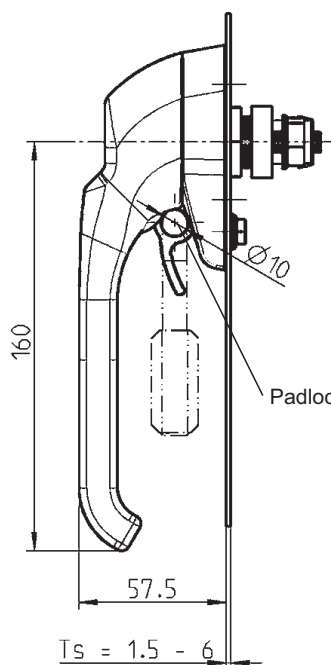
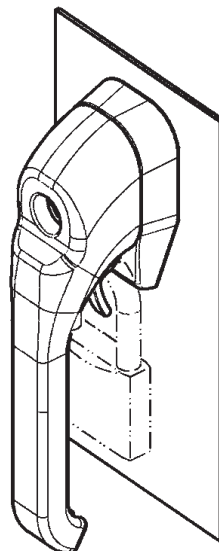
Further parts see page
 – Cam (GH = 18) 1C-120
 up to 1C-160
 – Key 12B-120
 – Spare key 12B-140

Handle zinc die black p.c., insert zinc die chrome plated, round cylinder with stainless steel cap and dust cover, padlock facility stainless steel

without insert	1091-U99	Slot 2 x 4	1091-U108
Double bit 3	1091-U105	keyed EK 333	1091-U110
Slot 1,2 x 3	1091-U109	keyed different	1091-U111

Bezel zinc die black p.c., earthing nut m.s. zinc pl., with seal

LH version	1091-U112
RH version	1091-U113



Cut out

Only one of these three 6 mm diameter holes is required

Insert is spring loaded

Further parts see page

– Cam (GH = 18) up to 1C-120
1C-160
– Key 12B-120
– Spare key 12B-140

Handle zinc die black p.c. insert zinc die chrome plated
round cylinder with stainless steel cap and shutter,
padlock facility stainless steel

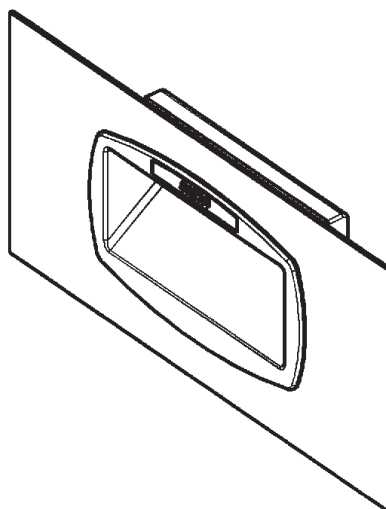
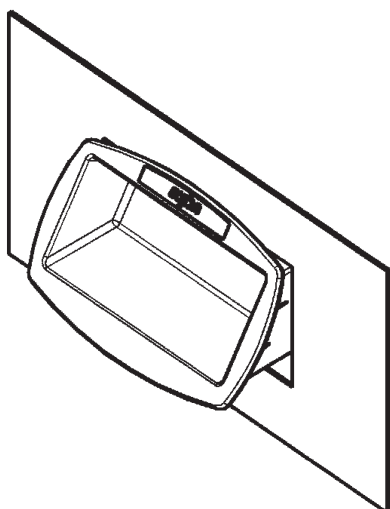
without insert	1091-U122	Triangular 8	1091-U131
keyed EK 333	1091-U123	Double bit 3	1091-U132
keyed different	1091-U124	Double bit 5	1091-U133
Square 6	1091-U125	Hexagon female 8	1091-U134
Square 7	1091-U126	Hexagon female 10	1091-U135
Square 8	1091-U127	Square female 8	1091-U136
Square 8 slotted	1091-U128	Slot 2 x 4	1091-U137
Triangular 6.5	1091-U129	Daimler Benz	1091-U138
CNOMO		Eastern Europe D-form 13	1091-U139
Triangular 7	1091-U130		

Pull

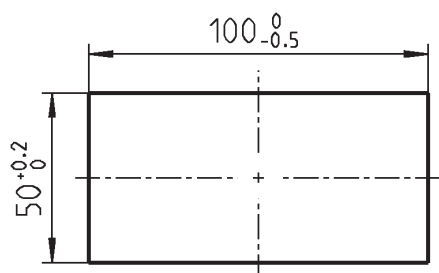
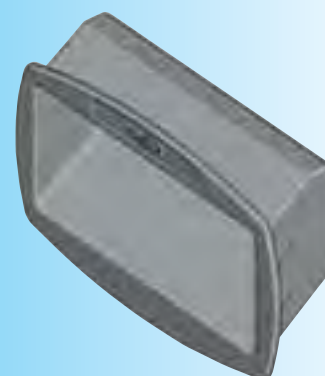
PROGRAM 1091

Pull can be clipped into cut out

Ready for operating

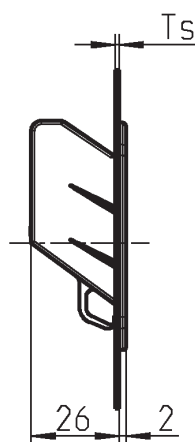
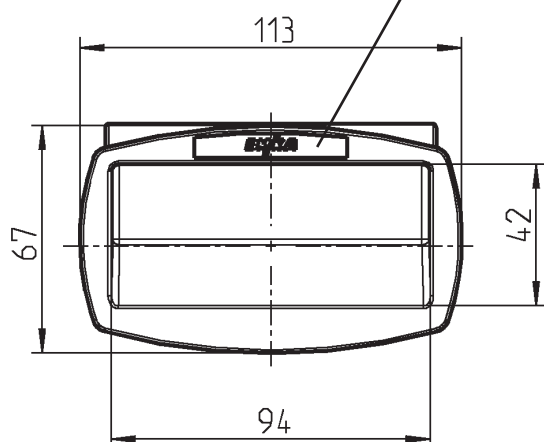


RL



Cut out

* Logo field 50 x 8.5 mm. Tampo Printing available for Customers own logo



Pull Polyamide GF black

Ts 0.80 - 1.2 mm	1091-93
Ts 1.20 - 1.6 mm	1091-91
Ts 1.75 - 2.2 mm	1091-92

Assembly

The pull is fitted with clips that automatically snap in behind the door part

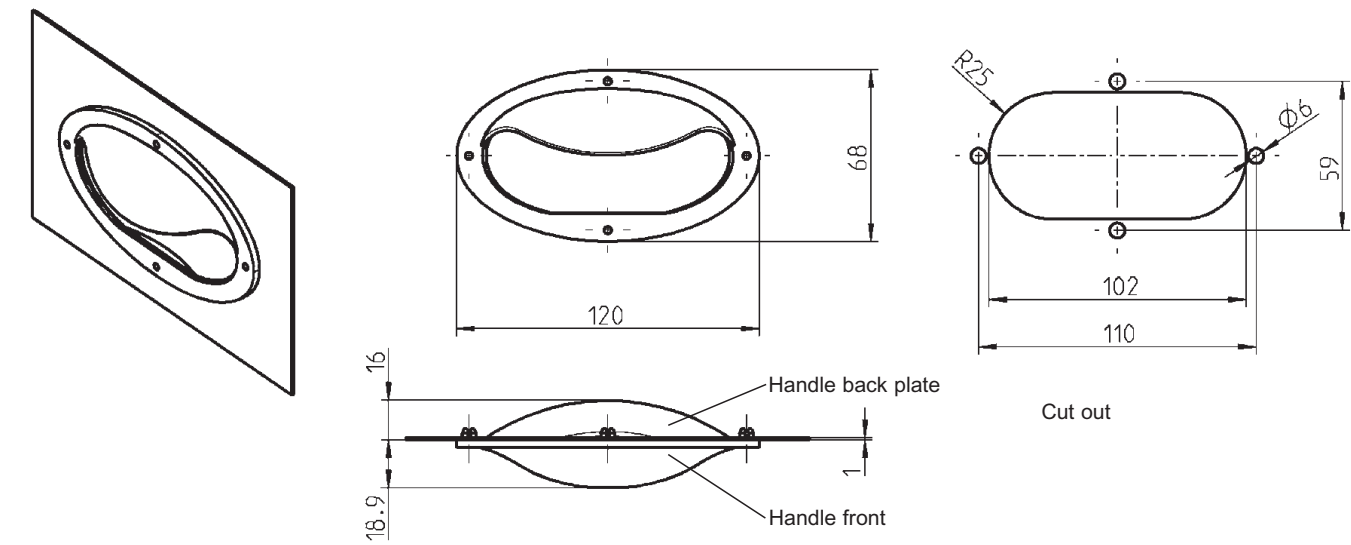
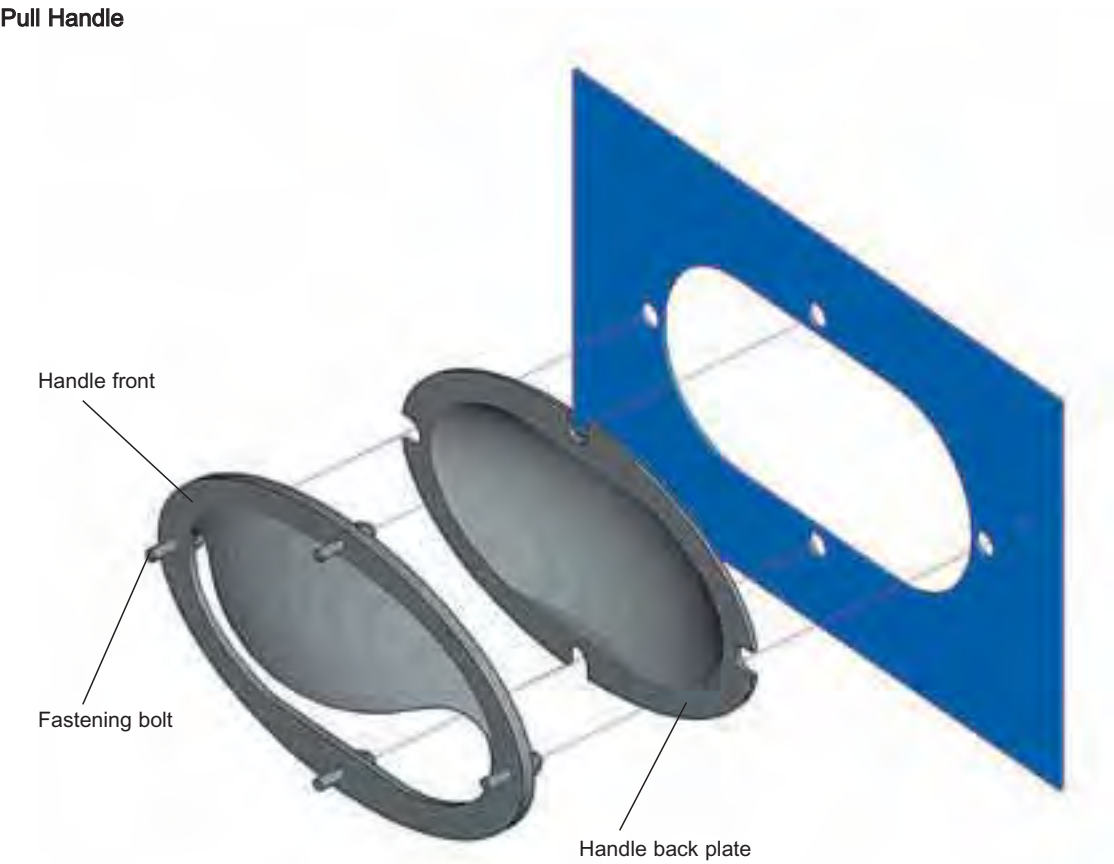
10A-720

(6B-275)

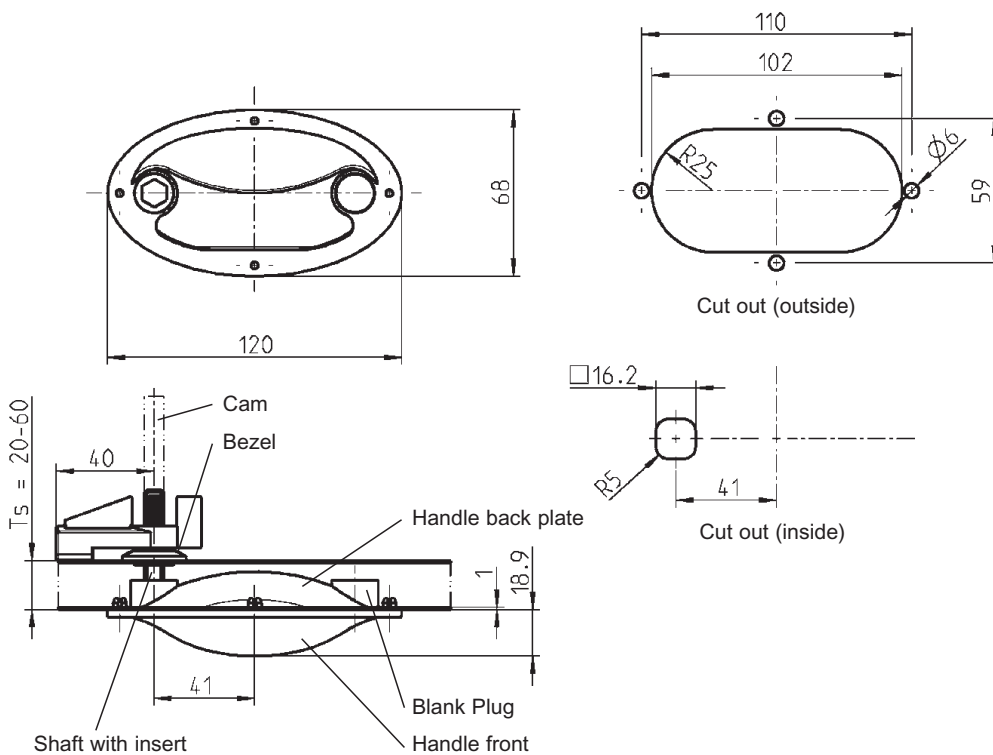
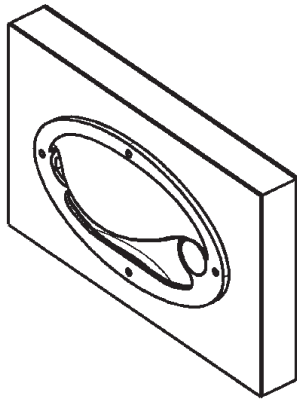
Pull

PROGRAM 1091

Pull Handle



Pull with quarter turn



Handle, shaft, bezel, cam and plug Polyamide GF black with seal

Version with shaft for $T_s = 20-30$ mm

1091-U98

Version with shaft for $T_s = 20-60$ mm

1091-U98-01

Assembly:

Hammer the fastening bolts until flush. Cam is clipped to shaft
The quarter turn can be opened with standard male hexagon key SW10 (acc. to DIN ISO 2936)

10A-820

(6B-280)

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Gasketing

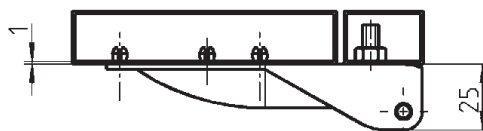
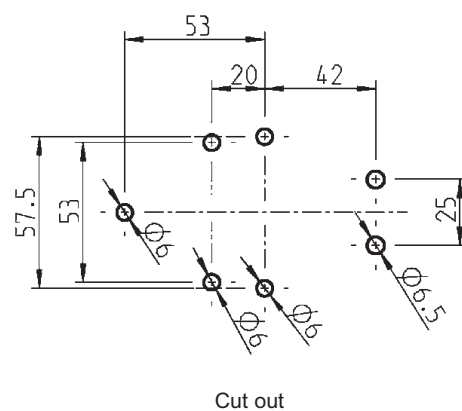
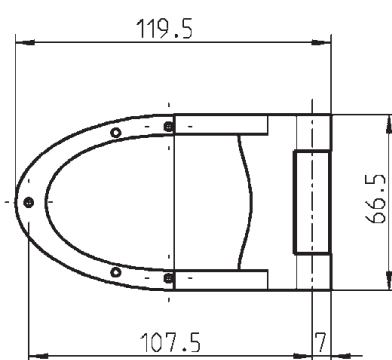
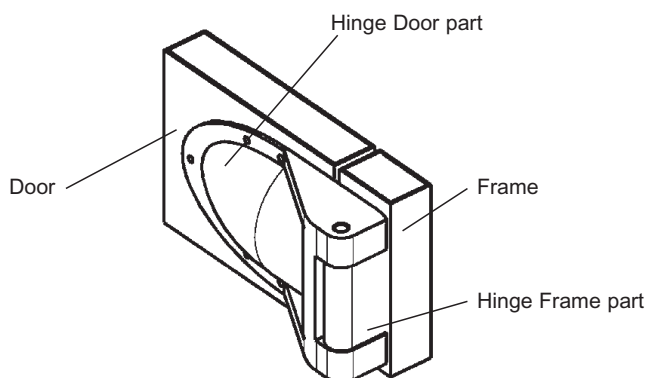
6 Handles

7 Aluminium windows

8 Stainless steel

9 Latches

10 Air-conditioning



Assembly:

Door part fixings are hammered flush. Frame part is fixed with M6 screws

Hinge door part and frame part Polyamide GF black, pin m.s. zinc plated

1091-U96

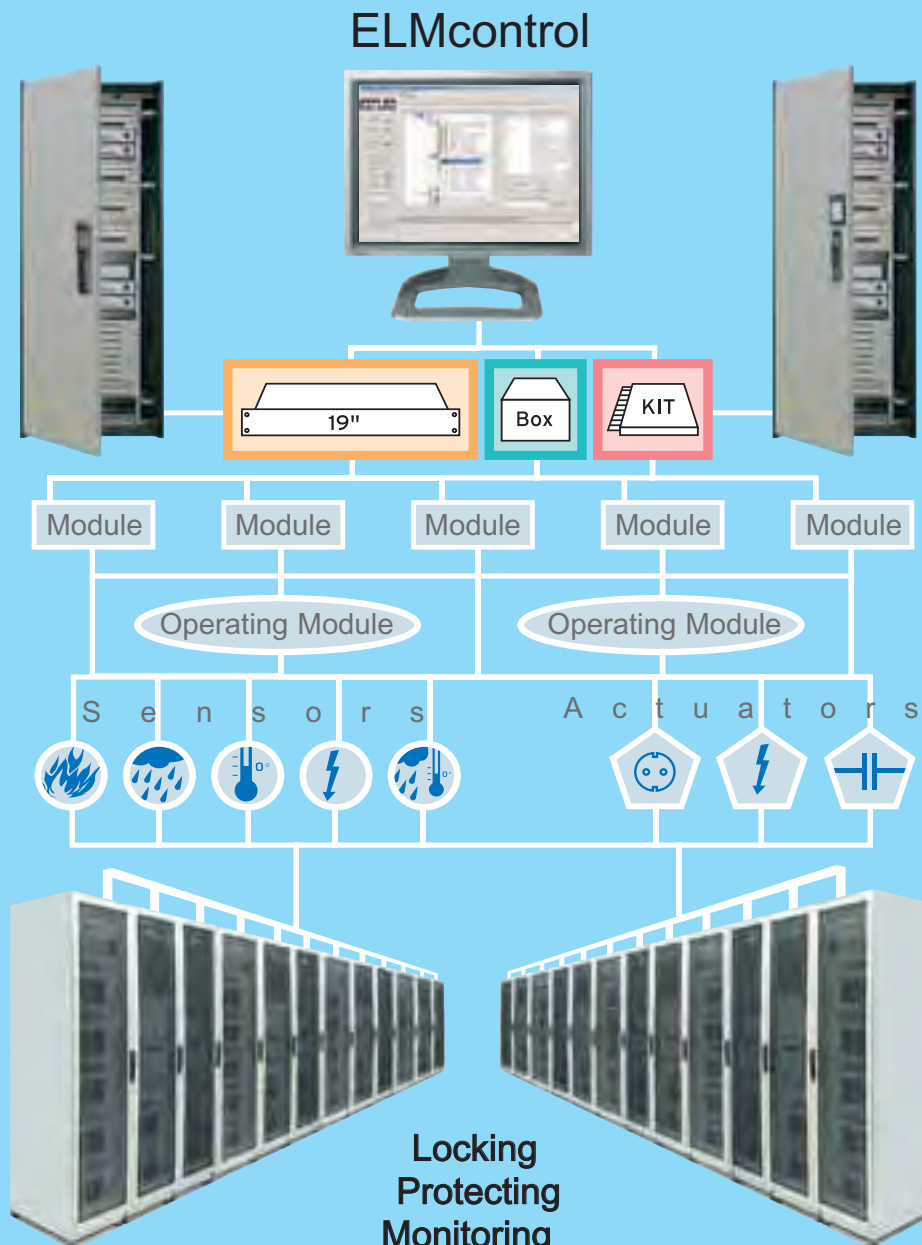
10A-840

(6B-285)

ELM Systems

Electronic Locking & Monitoring

Program 3000: Network Solutions



The requirements on control cabinets or facilities in server rooms and computer centres have changed clearly.

Requirements of today are:

- Improved data security
- Protection against unauthorized access
- Logging of all events
- Parameter controlled supervision
- Triggering of planned measures
- Connection to high level management systems

Today's integrated system solutions must provide these capabilities – absolutely reliable, measurable and economical. Of course, the suitable locking solution has to be included, too.

With Program 3000, EMKA offers a complete one-stop solution, which has the decisive features.

Our modular system design can be easily adapted to the customer's needs. The ELMcontrol software allows convenient control of all processes and access rights.

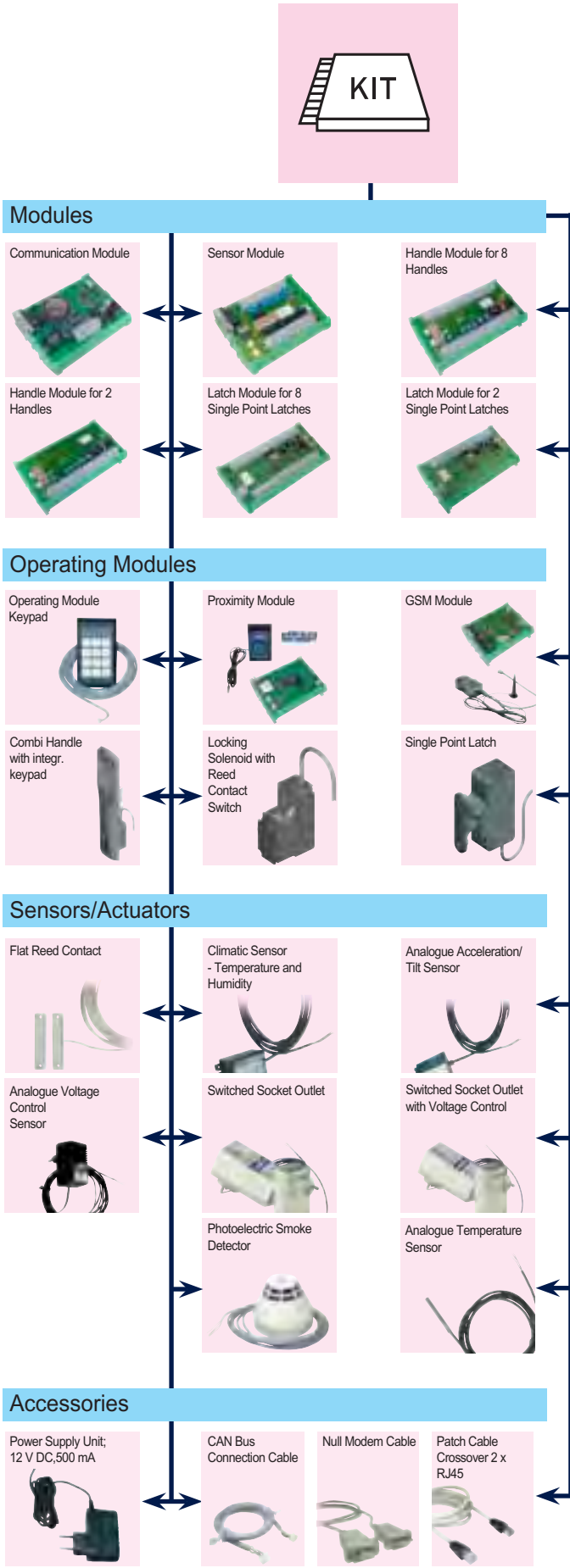
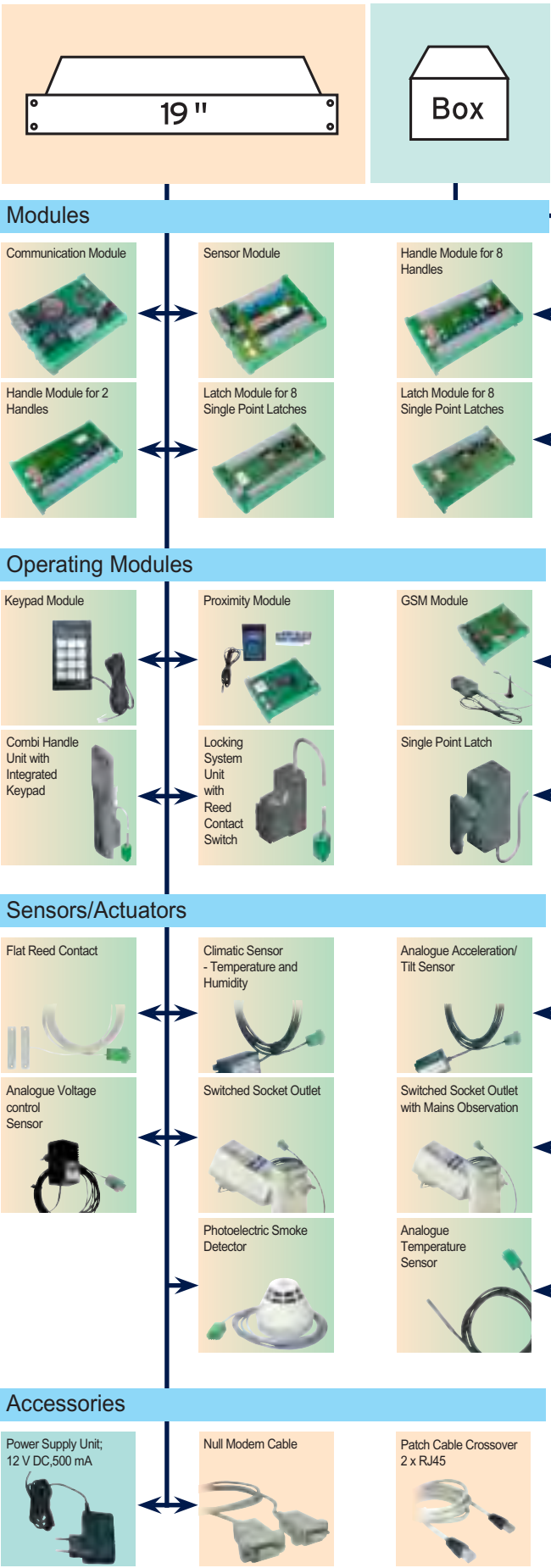
The 19" rack mount unit can be equipped individually and is a universal and convenient plug-and-play solution.

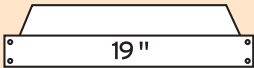
Complex network system solutions can be built up by linking several rack mount units or by combining them with encapsulated individual modules.

Encapsulated individual modules ("Box") can be used to extend a system. Especially for integrators, all components are also offered as unwired versions ("KIT").

ELM System Overview

PROGRAM 3000



Type	 Basic** 3000-U49				Standard* 3000-U50	Standard+* 3000-U53	 encapsulated Version	 components assemblies
Modules								
Communication Module	3000-U14-01	○	●	●	3000-U14-02	3000-U14-00		
Sensor Module	3000-U13-01	○	●	●	3000-U13-02	3000-U13-00		
Handle Module for 8 Handles	3000-U11-01	○	●	●	3000-U11-02	3000-U11-00		
Handle Module for 2 Handles	3000-U12-01	○	○	○	3000-U12-02	3000-U12-00		
Latch Module for 8 Single Point Latches	3000-U32-01	○	○	○	3000-U32-02	3000-U32-00		
Latch Module for 2 Single Point Latches	3000-U33-01	○	○	○	3000-U33-02	3000-U33-00		
Operating Modules								
Operating Module Keypad	3000-U08-01	○	○	○	3000-U08-01	3000-U08-00		
Proximity Module	3000-U09-01	○	○	●	3000-U09-02	3000-U09-00		
GSM Module	3000-U10-01	○	○	○	3000-U10-02	3000-U10-00		
Combi Handle + Keypad	2100-U158-01	○	○	○	2100-U158-01	2100-U158-00		
Locking System Unit with Reed	3000-U06-01	○	○	○	3000-U06-01	3000-U06-00		
Single Point Latch	3000-U30-01	○	○	○	3000-U30-01	3000-U30-00		
Sensors/Actuators								
Flat Reed Contact	3000-U35-01	○	○	○	3000-U35-01	3000-U35-00		
Climatic Sensor Temperature and Humidity	3000-U25-01	○	○	○	3000-U25-01	3000-U25-00		
Analogue Acceleration/Tilt Sensor	3000-U38-01	○	○	○	3000-U38-01	3000-U38-00		
Analogue Temperature Sensor	3000-U39-01	○	○	○	3000-U39-01	3000-U39-00		
Analogue Voltage control Sensor	3000-U40-01	○	○	○	3000-U40-01	3000-U40-00		
Switched Socket Outlet	3000-U41-01	○	○	○	3000-U41-01	3000-U41-00		
Switched Socket Outlet with Volt. Control	3000-U42-01	○	○	○	3000-U42-01	3000-U42-00		
Photoelectric Smoke Detector	3000-U34-01	○	○	○	3000-U34-01	3000-U34-00		
Accessories								
Power Supply Unit;		●	●	●	3000-03-02	3000-03-00		
CAN Bus Connection Cable 0.2 m		–	–	–	□	3000-U17		
CAN Bus Connection Cable 3.0 m		–	–	–	□	3000-U18		
CAN Bus Connection Cable 5.0 m		–	–	–	□	3000-U19		
Null Modem Cable	3000-U29	○	○	○	3000-U29	3000-U29		
Patch Cable Crossover 2 x RJ45	3000-U28	○	○	○	3000-U28	3000-U28		

Legend:

- * Completely assembled and wired.
 ** Assembled and wired according to customer's requirements (max. 6 modules per rack). Complex networks can be built by linking several racks.

- = standard
 ○ = optional
 – = no need
 □ = use standard patch cable 2 x RJ45



Note:
For initial installation a null modem cable 3000-U29 is required.

19" Basic Rack Mount Unit

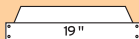
The 19" Basic Rack Mount Unit of the ELM System occupies one unit of height and may be equipped with up to 6 modules of the ELM System. Composition and wiring are carried out according to the customer's needs.

To equip the racks with modules the full scope of the ELM System can be used.
Control LEDs in the front indicate operating status of the modules.
Appropriate connectors for additional equipment can be found at the rear of the rack.

An ELM system always needs a Communication Module 3000-U14-01.
Rack units can be linked via standard patch cables 2xRJ45.
Each rack unit has a built-in power supply 100-240V AC, 47-63Hz.

Included in delivery:

- 19" Basic Rack Mount Unit (height 1 U)
- Power supply unit 100-240 V, 47-63 Hz AC
- Power supply cable

			
19" Basic Rack Mount Unit	3000-U49	-	-
Up to 6 of the following modules can be used:			
Proximity Module	3000-U09-01	-	-
GSM Module	3000-U10-01	-	-
Handle Module for 8 Handles	3000-U11-01	-	-
Handle Module for 2 Handles	3000-U12-01	-	-
Sensor Module	3000-U13-01	-	-
Communication Module	3000-U14-01	-	-
Control Module for 8 Single Point Latches	3000-U32-01	-	-
Control module for max. for 2 Single Point Latches	3000-U33-01	-	-

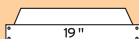


Note:
For initial installation a null modem cable 3000-U29 is required.

19" Standard Rack Mount Unit

The standard equipment includes:

- 19" Basic Rack Mount Unit 3000-U49 (Housing 1 HE)
- 1 Communication Module 3000-U14-01
- 1 Handle Module for 8 Handles 3000-U11-01
- 1 Sensor Module 3000-U13-01

			
19" Standard Rack Mount Unit	3000-U50	-	-

19" Extended Rack Mount Unit

This 19" rack is like the Standard Rack Mount Unit, but it is additionally equipped with a Proximity Module.

- 19" Basic Rack Mount Unit 3000-U49 (Housing 1 HE)
- 1 Communication Module 3000-U14-01
- 1 Handle Module for 8 Handles 3000-U11-01
- 1 Sensor Module 3000-U13-01
- 1 Proximity Module 3000-U09-01

19" Rack Mount Unit	3000-U53	-	-

Box - encapsulated version

The "Box Module" is a closed metal housing which contains one single ELM module. All modules of the ELM system are available "in the Box". Housing dimensions are 235 x 135 x 33 mm, color RAL 7035. The "Box Module" provides the same plug connector system as the 19" Rack Mount Unit. Therefore box modules and 19" Rack Mount unit can be easily linked together via standard patch cables 2 x RJ45. All modules of the ELM system are also available "in the Box".

Communication Module

For the operation of an ELM System only one module of this type is needed. It allows access to all other modules via a network.

Via RS232 and 10 Base-T Ethernet interfaces the module can communicate to external systems. The built-in real-time clock and an additional memory allow logging of all events of the ELM System, even in case of power failure.

Two collective alarm relays allow forwarding of alarm events to external places.

The standard SNMP protocol allows seamless integration into customer-specific applications.

Versions, included in delivery:

- 3000-U14-00 unencapsulated, with carrier for top hat rail mounting. Wiring via terminals.
- 3000-U14-01 is supplied only as a build-in part of a 19" rack mount unit.
- 3000-U14-02 is supplied in a metal housing with a plug connector system.

Communication Module	3000-U14-01	3000-U14-02	3000-U14-00
Switched Socket Outlet	3000-U41-01		3000-U41-00



Note:
For initial installation a null modem cable 3000-U29 is required.



Note:
For initial installation a null modem cable 3000-U29 is required.

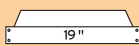
Sensor Module

This module is used for reading and analyzing various environmental conditions, such as temperature, humidity, vibration and more. It has 4 analogue sensor inputs. 4 relay outputs can be assigned to the sensor inputs.

Exceeding the preset limits cause a changeover of the relay contact which could be used to control heating or cooling devices.

Versions, included in delivery:

- 3000-U13-00 unencapsulated, with carrier for top hat rail mounting. Wiring via terminals.
- 3000-U13-01 is supplied only as a built-in part of a 19" rack mount unit.
- 3000-U13-02 is supplied in a metal housing with a plug connector system.

			
Sensor Module	3000-U13-01	3000-U13-02	3000-U13-00
Climatic Sensor (temperature and humidity)	3000-U25-01		3000-U25-00
Photoelectric Smoke Detector	3000-U34-01		3000-U34-00
Analogue Acceleration/Tilt Sensor	3000-U38-01		3000-U38-00
Analogue Temperature Sensor	3000-U39-01		3000-U39-00
Analogue Voltage control Sensor	3000-U40-01		3000-U40-00
Switched Socket Outlet	3000-U41-01		3000-U41-00
Switched Socket Outlet with Voltage Control	3000-U42-01		3000-U42-00

Operating Module Proximity (Legic® transponder)

The Proximity Module allows direct release of a locking device by means of proximity cards. In conjunction with the Keypad Module 3000-U8-0x the locking device to be opened can be selected. The selected lock is then released upon presentation of an authorized proximity card.

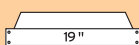
Each card can be limited in the number of permitted uses or an expiry date can be assigned. The operation parameters can be adapted or changed at any time via software from a PC. To increase the ease of use it is possible to connect several proximity modules to an ELM System.

Versions:

- 3000-U09-00 unencapsulated, with carrier for top hat rail mounting. Wiring via terminals.
- 3000-U09-01 is supplied only as a built-in part of a 19" rack mount unit.
- 3000-U09-02 is supplied in a metal housing with a plug connector system

Included in delivery:

- Antenna is integrated into a mounting frame, cable length 3 m.
- 2 programmable proximity cards
- Fixing material for the antenna and drilling plan

			
Operating Module Proximity	3000-U09-01	3000-U09-02	3000-U09-00

Operating Module GSM Modem

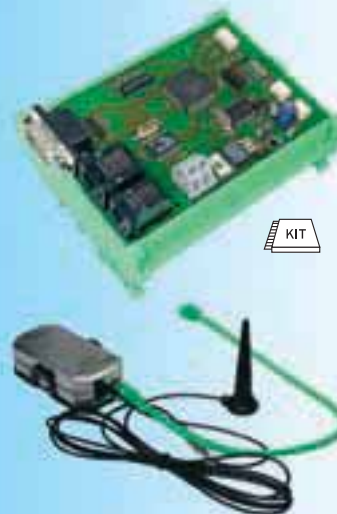
By means of DTMF-capable telephone (mobile or fixed network) a telephone connection is established to the GSM modem and therewith access is given to the complete ELM System. All locking systems connected can be operated. Furthermore, text messages (SMS) of certain events may be sent to correspondingly listed addressees. This is true for the handle status as well as for the status of the alarm line.

Versions:

- 3000-U10-00 unencapsulated, with carrier for top hat rail mounting. Wiring via terminals.
- 3000-U10-01 is supplied only as a built-in part of a 19" rack mount unit.
- 3000-U10-02 is supplied in a metal housing with a plug connector system.

Included in delivery:

- Industrial GSM modem with associated antenna on a magnetic base and connection cable

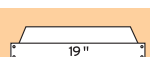


Note:

The modem can be used in standard GSM networks.

A subscription to the respective mobile phone provider is necessary.

Operating Module GSM Modem



3000-U10-01



3000-U10-02



3000-U10-00

Handle Module for 8 Handles

This module controls up to 8 handle systems with releasing solenoid unit and recognizes the status of 8 contacts.

Activated by means of an keypad or proximity module, or via the management software from a PC, it sends an electrical impulse to the locking device. Monitoring of the status of the locking systems (and/or doors or covers of cabinets) is possible via the corresponding digital inputs.

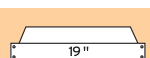
Versions, included in delivery:

- 3000-U11-00 unencapsulated with carrier for top hat rail mounting. Wiring via terminals. mounting, and is intended for single wire connections.
- 3000-U11-01 is supplied only as a built-in part of a 19" rack mount unit.
- 3000-U11-02 is supplied in a metal housing with a plug connector system.

Power Supply Units 3000-03-00 or 3000-03-02 are required for the modules -00 and -02.



Handle Module for 8 Handles



3000-U11-01



3000-U11-02



3000-U11-00

Locking System Unit with Reed Contact Switch for swinghandle
Programs 2100, 1180, 1151

3000-U06-01

3000-U06-00

Flat Reed Cont. used as door switch

3000-U35-01

3000-U35-00

ELM Combination Handle with integrated

2100-U158-01

2100-U158-00

Handle Module for 2 Handles

This module controls up to 2 handle systems with releasing solenoid unit and recognizes the status of 2 contacts.

Activated via operation module, or management software from a PC, it gives an electrical impulse to the locking system. Monitoring the status of the locking systems (and/or doors or covers of cabinets) is possible via corresponding digital inputs.

Versions, included in delivery:

- 3000-U12-00 unencapsulated, with carrier for top hat rail mounting. Wiring via terminals.
- 3000-U12-01 is supplied only as a built-in part of a 19" rack mount unit.
- 3000-U12-02 is supplied in a metal housing with a plug connector system.

Power Supply Units 3000-03-00 or 3000-03-02 are required for the modules -00 and -02.



			
Handle Module for 2 Handles	3000-U12-01	3000-U12-02	3000-U12-00
Locking System Unit with Reed Contact Switch for swing handle Programs 2100, 1180, 1151	3000-U06-01		3000-U06-00
Flat Reed Contact (door switch)	3000-U35-01		3000-U35-00
ELM Combination Handle with integrated keypad	2100-U158-01		2100-U158-00

Latch Module for 8 Single Point Latches

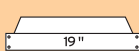
This module controls up to 8 single point latches and recognizes the status of 8 contacts. Activated via operation module, or management software from a PC, the locking system is released for a certain period of time. Monitoring status of the locking systems (and/or doors or covers of cabinets) is possible via the corresponding digital inputs.

Versions, included in delivery:

- 3000-U32-00 unencapsulated, with carrier for top hat rail mounting. Wiring via terminals.
- 3000-U32-01 is supplied only as a built-in part of a 19" rack mount unit.
- 3000-U32-02 is supplied in a metal housing with a plug connector system.

Power Supply Units 3000-03-00 or 3000-03-02 are required for the modules -00 and -02.



			
Latch Module for 8 Single Point Latches	3000-U32-01	3000-U32-02	3000-U32-00
Single Point Latch with Reed Contact Switch	3000-U30-01		3000-U30-00
Flat Reed Contact (door switch)	3000-U35-01		3000-U35-00

Latch Module for 2 Single Point Latches

This module is capable of controlling up to 2 single point latches and to recognize the status of 2 contacts.

Activated via operation module, or management software from a PC, the locking system is released for a certain period of time. Monitoring of the status of the locking systems (and/or doors or covers of cabinets) is possible via the corresponding digital inputs.

Versions, included in delivery:

- 3000-U33-00 unencapsulated, with carrier for top hat rail mounting. Wiring via terminals.
- 3000-U33-01 is supplied only as a built-in part of a 19" rack mount unit.
- 3000-U32-02 is supplied encased in a closed housing with a plug connector system.

Power Supply Units 3000-03-00 or 3000-03-02 are required for the modules -00 and -02.



Latch Module for 2 Single Point Latches	3000-U33-01	3000-U33-02	3000-U33-00
Single Point Latch with Reed Contact Switch	3000-U30-01		3000-U30-00
Flat Reed Cont. used as door switch	3000-U35-01		3000-U35-00

Operating Module Keypad

The keypad unit allows the selection of doors within the system, as well as an input of the access code for the selected door.

To increase the ease of use it is possible to connect several keypads to one ELM System.

Versions, included in delivery:

- 3000-U08-00 is supplied with a CAN bus plug
- 3000-U08-01 is supplied with a RJ11 plug for connection to a 19" rack mount unit or box modules -02.

- The keypad comes with 3 m of cable.
- Fixing material and drilling plan.



Operating Module Keypad	3000-U08-01	3000-U08-00	

Locking System Unit with Reed Contact Switch

This solenoid unit is intended for an installation into spring-loaded handle systems with reed contact. The unit is capable of reporting the current status of the handle (open/closed). This unit can be installed in the following swing handle programs:

Program 1150



Program 1180



Program 2100



Program 2400



Please order the handle systems prepared for Reed contact
For other handle systems, please, contact EMKA.

This solenoid module is suitable for applications with handle modules 3000-U11-0x and 3000-U12-0x.

Versions, included in delivery:

- 3000-U06-00 The connection cable (3 m) is intended for single wire connections.
- 3000-U06-01 The connection cable (3 m) is equipped with a specified plug.

Note:

For safety cabling: standard Rod guides
see pages 3ZA-520/3ZB-520 and 3ZC-140

Further parts see page

Program 1150
– Swing handle 1151 3C-420
3C-440

PROGRAM 1180
– Swing handle up to 3E-120
3E-320

Program 2100
– Swing handle 3H-320

Program 2400
– Swing handle 3K-220

Locking System Unit with Reed Contact Switch

3000-U06-01

3000-U06-00

Single Point Latch with Reed Contact Switch

The single point latch can be used in special application areas. It is intended for connection to latch modules 3000-U32-0x and 3000-U33-0x.

Versions, included in delivery:

- 3000-U30-00 The connection cable (3 m) is intended for single wire connections.
- 3000-U30-01 The connection cable (3 m) is equipped with a specified plug.

Single Point Latch with Reed Contact Switch

3000-U30-01

3000-U30-00

ELM Combination Handle Unit with Integrated Keypad

The Combination Handle Unit is a spring loaded handle with a built-in Keypad Module 3000-U8-0x, which is completely integrated into a moulded escutcheon.

A Locking System Unit with Reed Contact Switch 3000-U6-0x is also integrated.

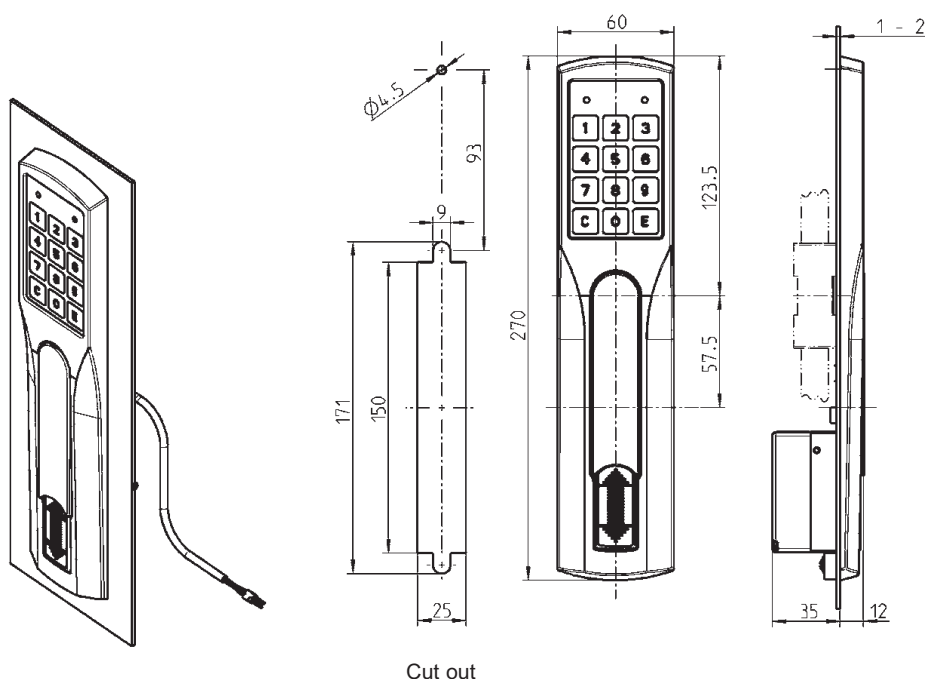
The keypad unit allows the selection of doors within the complete system, as well as an input of the access code of the selected door.

At a triggered pulse, the integrated locking unit releases the handle from the escutcheon so that it can be turned to open the door.

The integrated reed contact reports the current status of the handle (open/closed) to the connected modules for further processing.

Thanks to the integration in the bus system the access codes can be fixed and altered conveniently. The keypad has access to all other locking systems connected.

The access code system allows forming of groups from handles with different opening permissions which can be subdivided hierarchically. Master key systems and group key systems can be developed this way.



Versions, included in delivery:

Swing Handle GD Zn black, Moulded Escutcheon Polyamide GF black;
Operating Module Keypad and Locking System Unit with Reed Contact Switch

2100-U158-00 The connection cables (3 m) are intended for single wire connections to unencapsulated modules -00.

2100-U158-01 The connection cables (3 m) are prepared for use with 19" rack units or encased modules -02.

Note:

It is possible to use the antenna of the proximity module instead of the keypad (on request).





Flat Reed Contact used as door switch

In conjunction with the ELM System, this digital sensor can be used for supervision of the status of a door or a cabinet cover. It can be connected to the module types 3000-U11-0x, 3000-U12-0x, 3000-U32-0x or 3000-U33-0x.

Versions, included in delivery:

- 3000-U35-00 The connection cable (5 m) is intended for single wire connections.
- 3000-U35-01 The connection cable (5 m) is equipped with a specified plug.



Flat Reed Contact(door switch)

3000-U35-01

3000-U35-00

Climatic Sensor - Temperature and Humidity

This analogue climatic sensor measures humidity and temperature of the environment. It is connectable to a Sensor Module 3000-U13-0x.

Technical data:

Operating voltage:	7.5...27 V DC (provided by the ELM-System)
Measuring range humidity:	0...100 % rel. humidity
Accuracy:	± 3.5 % (20...80 % r.F.)
Response time:	< 4 sec.
Output humidity	0.5...5.5 V
Measuring element:	capacitive (dewing strength)
Measuring range temp.:	-20...+80 °C
Accuracy:	± 0.5 K @ 25 °C
Response time:	< 20 sec
Output temperature:	0.5...5.5 V
Measuring element:	semiconductor

Other:

L x W x H:	65 x 31 x 22 mm
Cable length:	2 m
Current consumption:	ca. 0.8 mA

Versions, included in delivery:

- The climatic sensor is integrated in a housing with two fixing holes.
- 3000-U25-00 The connection cable (2 m) is intended for single wire connections.
- 3000-U25-01 The connection cable (2 m) is equipped with a specified plug.



Climatic Sensor - Temperature and Humidity

3000-U25-01

3000-U25-00

Photoelectric Smoke Detector

Photo sensor Smoke, VdS accepted, G29219.
It is connectable to a Sensor Module 3000-U13-0x.

Versions, included in delivery:

- 3000-U34-00 The connection cable (3 m) is intended for single wire connections.
- 3000-U34-01 The connection cable (3 m) is equipped with a specified plug.



Photoelectric Smoke Detector VdS accepted

3000-U34-01

3000-U34-00

Analogue Acceleration/Tilt Sensor

This analogue sensor is used to detect vibration, vandalism, destruction and theft.
It measures acceleration along one axis. It is connectable to a Sensor Module 3000-U13-0x.

Technical data:

Operating voltage:	7.5...15V DC (provided by the ELM System)
Measuring axis:	Z-axis
Measuring range:	+/-5 g
Output at 0 g:	2.5V +/-0.25V
Sensitiveness:	0.4 +/-0.02) V/g
Non-linearity:	+/-1% FSO
Bandwidth:	50 Hz
Protection against overload:	up to 1500 g
Measuring element:	capacitive

Other:

L x W x H:	65 x 31 x 22 mm
Cable length:	2 m
Current consumption:	approx. 2 mA
Operating conditions:	-40...+70 °C
Protection level:	IP65
RFI and ESD tested acc. to	EN 50082-1 EN 50082-2

Versions, included in delivery:

- The sensor is integrated in a housing with two fixing holes.
- 3000-U38-00 The connection cable (2 m) is intended for single wire connections.
- 3000-U38-01 The connection cable (2 m) is equipped with a specified plug.



Analogue Acceleration/Tilt Sensor

3000-U38-01

3000-U38-00





Analogue Temperature Sensor

This temperature sensor can be used for the measuring of temperature of liquid and gaseous media. It is connectable to a Sensor Module 3000-U13-0x.

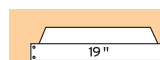
Technical data:	
Operating voltage:	+12V ±10%
Measuring range:	-50....150 °C
Error:	< 2%
Output at -50° C:	0.25 V
Output at 150° C:	4.75 V
Cable length:	2 m
Housing:	Stainl. steel
Diameter:	6 mm
Length:	60 mm

Versions, included in delivery:

The temperature sensor is integrated in a housing of high-grade steel.

3000-U39-00 The connection cable (2 m) is intended for single wire connections.

3000-U39-01 The connection cable (2 m) is equipped with a specified plug.



Analogue Temperature Sensor

3000-U39-01

3000-U39-00



Analogue Voltage Control Sensor

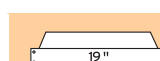
This sensor is used for monitoring and observation of mains voltage. It is connectable to a Sensor Module 3000-U13-0x.

Technical data:	
Measuring range:	100-240 V, 47-63 Hz AC
Output:	0 ... 5 V
Cable length:	3 m

Versions, included in delivery:

3000-U40-00 The connection cable (3 m) is intended for single wire connections.

3000-U40-01 The connection cable (3 m) is equipped with a specified plug.



Analogue Voltage control Sensor

3000-U40-01

3000-U40-00

Switched Socket Outlet

The Switched Socket Outlet is an electrical outlet unit with a relay contact that switches mains power on/off for devices plugged in. It is intended as an amplifier for relay contact outputs of the Sensor Module 3000-U13-0x or the Communication Module 3000-U14-0x.

Technical data:

Switching range: 170-240 V, 47-63 Hz AC

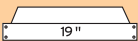
Switching current: 10 A

Cable length: 3 m

Versions, included in delivery:

3000-U41-00 The connection cable (3 m) is intended for single wire connections.

3000-U41-01 The connection cable (3 m) is equipped with a specified plug.

			
Switched Socket Outlet	3000-U41-01	3000-U41-00	



Switched Socket Outlet with Voltage Control

The Switched Socket Outlet is an electrical outlet unit with a relay contact that switches mains power on/off for devices plugged in. It is intended as an amplifier for relay contact outputs of the Sensor Module 3000-U13-0x or the Communication Module 3000-U14-0x.

Technical data:

Switching range: 170-240 V, 47-63 Hz AC

Switching current: 10 A

Measuring range: 100-240 V, 47-63 Hz AC

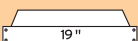
Output: 0 ... 5 V

Cable length: 3 m

Versions, included in delivery:

3000-U42-00 The connection cable (3 m) is intended for single wire connections.

3000-U42-01 The connection cable (3 m) is equipped with a specified plug.

			
Switched Socket Outlet Mains Observation	3000-U42-01	3000-U42-00	



Accessories

Stabilized Power Supply Unit; 12 V DC, 500 mA

Versions, included in delivery:

- 3000-03-00 The connection cable (2 m) is intended for single wire connections.
- 3000-03-02 The connection cable (2 m) is equipped with a specified plug for box-type housings -02.



Stabilized Power Supply Unit
12 V DC 500 mA

-

3000-03-02

3000-03-00

CAN Bus Connection Cable

This cable is for connecting unencapsulated modules. The cable is for CAN bus signal



CAN Bus Connection Cable 0.2 m

-

-

3000-U17-00

CAN Bus Connection Cable 3 m

-

-

3000-U18-00

CAN Bus Connection Cable 5 m

-

-

3000-U19-00

Null Modem Cable

This cable (2 m) is needed for initial configuration of the ELM-System.



Null Modem Cable

3000-U29

3000-U29

Patch Cable Crossover 2 x RJ45

The cable (2 m) is used for direct connection between PC and ELM System.



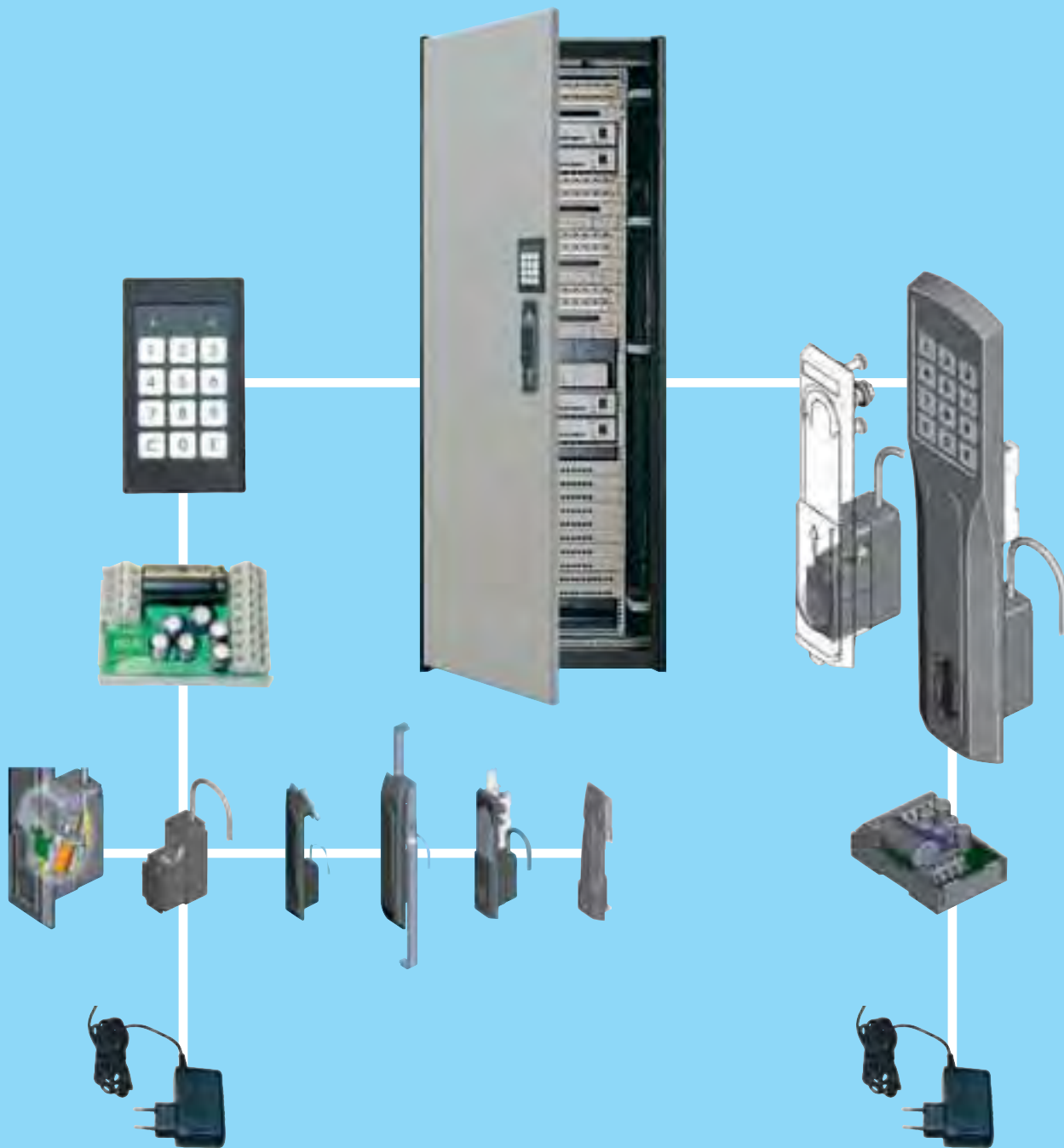
Patch Cable Crossover 2 x RJ45

3000-U28

3000-U28

Electronic Locking-System

Program 3000: Stand-alone Solutions



The Stand-alone system is an economical electronic locking system for cabinets with up to two doors. It is suitable for applications which do not require data networking or remote administration.

A handle is opened by entering an appropriate pin code via keypad. Five different pin codes are available per handle. The administration of the code numbers is carried out directly at the keypad and requires authorisation by input of a special master code number.

The Stand-alone system consists of a Keypad Module and a Control Module. The Control Module provides the necessary electrical energy for opening the handles.

Keypad Module and handles are available both as individual components and as a set.

Stand-alone Version

Electronic Keypad

Description:

The corresponding handle mechanism will be activated via entering the respective code on the keypad. The keypad is programmable for a maximum of two doors. More user codes can be added for each door. With a changeable master code, the user codes can be easily assigned.

Through respective allocation of the user codes, master key systems and group key systems can be developed.

Application:

The electronic keypad system is suitable for small stand-alone solutions, which are not required to be networked.

The system is particularly suited for controlling a cabinet with up to two doors by means of a single keypad.

Function:

After programming the codes the user can unlock a swing handle by entering a valid access code. Now the door can be opened.

Components of the delivery set:

- Electronic Keypad with connection cable (4 m)
- Electronic unit with connection terminals for up to two electromechanical Locking System Units and the Electronic Keypad
- One or two Locking System Units with connection cable (4 m); for installation into springloaded handle systems
- Fixing material
- Instruction manual

Note:

Stabilised power supply unit 12 V minimum 300 mA is required (see page 11B-160).



Technical Data
– Protection Class IP 40
– Temperature Range 0-60 °C

Program 1150

Program 1180

Program 2100

Program 2400



Further parts see page

Program 1150
– Swing handle 1151 3C-420
3C-440

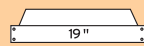
PROGRAM 1180
– Swing handle 3E-120
up to 3E-320

Program 2100
– Swing handle 3H-320

Program 2400
– Swing handle 3K-220
– Power supply 11B-160

11B-120

(11B-260)

			
Electronic Keypad with 1 Locking System Module	-	-	3000-U01-00
Electronic Keypad with 2 Locking System Module	-	-	3000-U02-00

Electronic Locking System

PROGRAM 3000

Stand-alone Version

Combination Handle Unit with Integrated Keypad

Integration of the keypad into the handle escutcheon eliminates the need for the installation of a separate keypad and moulded housing.

Description:

The corresponding handle mechanism will be activated upon entering the respective code on the keypad. The keypad is programmable for a maximum of two doors. More user codes can be added for each door as required. With the changeable master code, the user codes can easily be allocated.

Through respective allocation of the user codes, master key systems and group key systems can be developed.

Application:

The electronic keypad system is suitable for small stand-alone solutions, which are not required to be networked.

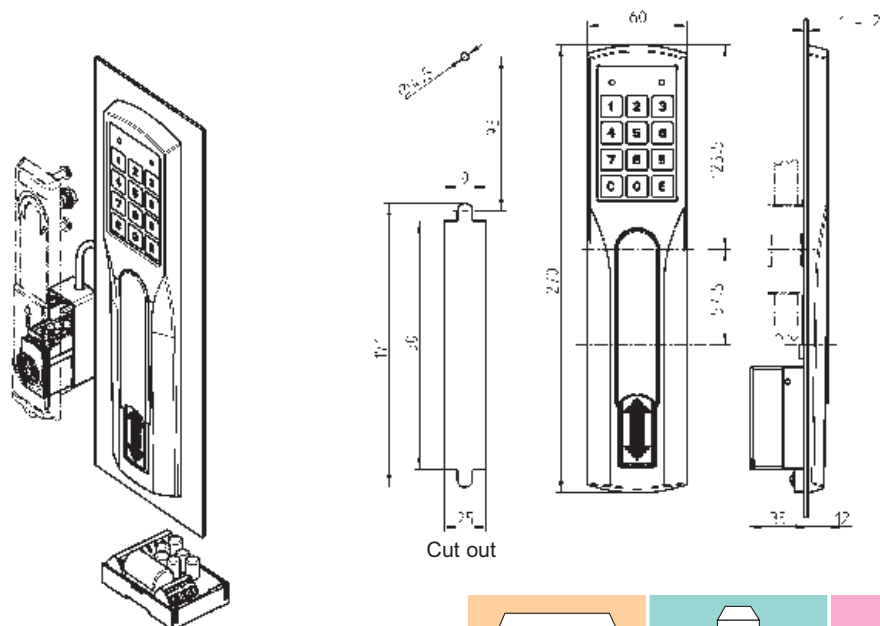
The system is particularly suited for controlling a cabinet with up to two doors by means of a single keypad.

Function:

After programming the codes, the user can unlock a swing handle by entering a valid access code. Now the door can be opened.

Components included in delivery:

- Swing Handle GD Zn black, moulded polyamide GF black; fixing material St zinc-galvanized
- Electronic Keypad with connection cable (4 m)
- Electronic unit with connection terminals for up to two electromechanical Locking System Units and the Keypad
- One built-in Locking System Unit for spring-loaded handle systems; with connection cable (4 m)
- Instruction manual



	19"	Box	KIT
Combination Handle Unit complete with Locking Module installed	-	-	2100-U151-00
Combination Handle Unit complete plus 1 LSM* for 2nd handle	-	-	2100-U152-00



Technical Data
 – Protection Class IP 40
 – Temperature Range 0-60 °C

Note:
 Stabilized power supply unit 12 V minimum 300 mA is required (see page 11B-160).

Further parts see page
 – Power supply 11B-160
 – Rod control 3YA-520
 3YA-540

For the second solenoid
Program 1150
 – Swinghandle 1151 3C-420
 3C-440

Program 1180
 – Swing handle up to 3E-120
 3E-320

Program 2100
 – Swing handle 3H-320

Program 2400
 – Swinghandle 3K-220

Electronic Locking System

PROGRAM 3000

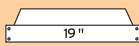
Stand-alone Version

Stabilised Power Supply Unit; 12 V DC, 500 mA

Version:

3000-03-00 The connection cable (2 m) is intended for single wire connections.



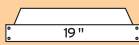
			
Stabilised Power Supply Unit 12V DC 500 mA	-	-	3000-03-00

Locking System Unit

The Locking System Unit is intended for an installation into spring-loaded handle. It is equipped with a connection cable (4 m).

The unit is controlled by means of the Standard Control Module 3000-U7-00.



			
Locking System Unit	-	-	3000-U05-00

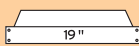
Standard Control Module

This module controls locking system units of spring loaded handle systems. It has a voltage regulator and generates current pulses to release the handles.

Up to two Locking System Units and two triggering push buttons can be connected.

A stabilised power supply 12V DC; min. 500 mA is required.



			
Standard Control Module	-	-	3000-U07-00

Further parts see page

Program 1150

– Swinghandle 1151 3C-420
3C-440

Program 1180

– Swing handle 3E-120
up to 3E-320

Program 2100

– Swinghandle 3H-320

Program 2400

– Swinghandle 3K-220

11B-160

(11B-280)

Info

1 Quarter turn

2 Rod controls

3 Locking systems

4 Hinges

5 Gasketing

6 Handle

7 Aluminium window

8 Stainless steel

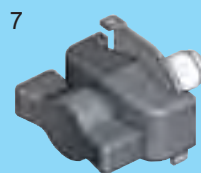
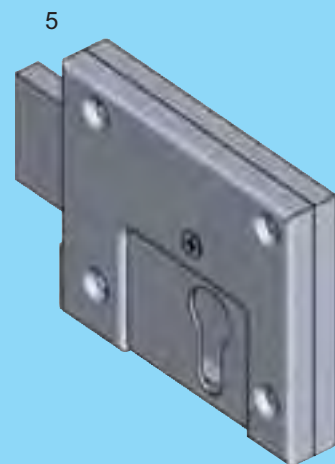
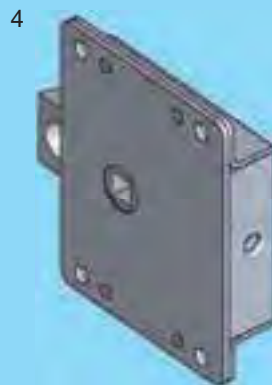
9 Latches

10 Air-conditioning

11 ELM Security Systems

Locks/Latches

Lock, retractable handle, dead-bolt lock, slam-lock, snap lock, bridge clamp



1	Retractable handle	12A-120
2	Door lock	12A-220, 12A-240
3	Slam-lock	12A-320, 12A-340
4	Slam-lock	12A-320
5	Dead-bolt lock	12A-520
6	Snap lock	12A-240
7	Bridge clamp system	12A-620
8	Snap lock	12A-420

12A-100

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Gasketing

6 Handles

7 Aluminium windows

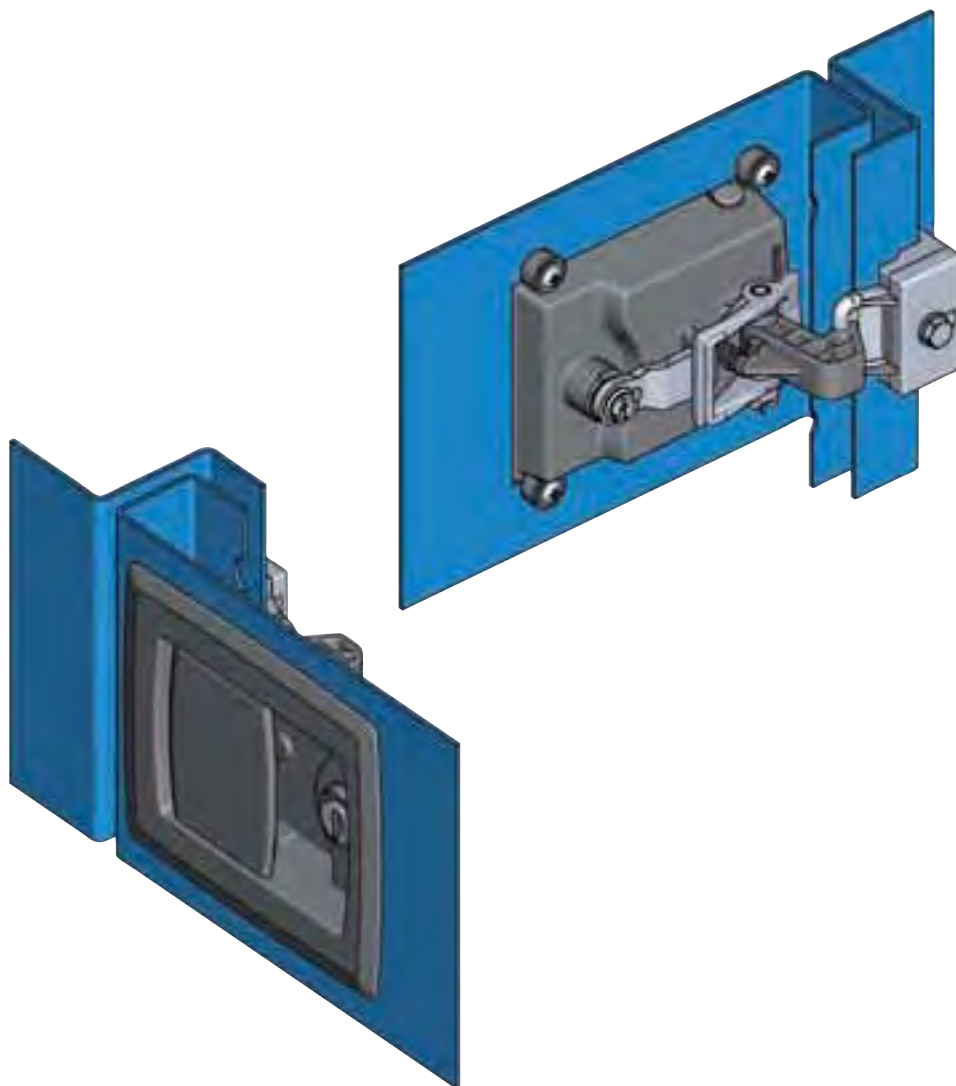
8 Stainless steel

9 Latches

10 Air-conditioning

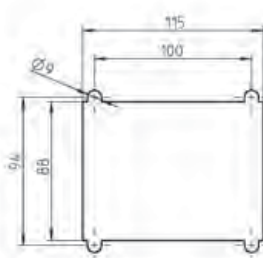
11 ELM Security Systems

12 Miscellaneous

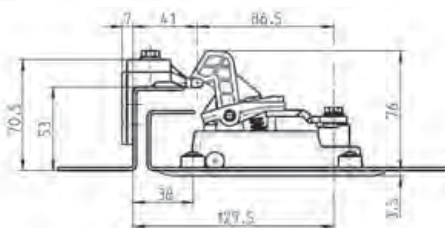
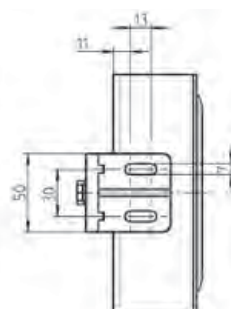
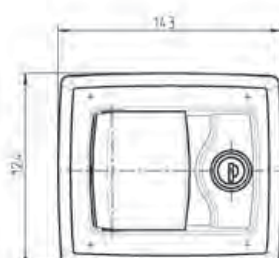


Note:
The Version 1130-U1 and -U2
are made for RH use by default.

Version for LH use is created by
removal of the round cylinder
rotating 180° and refitting.



Cut out



Operation:
The spring-loaded locking
hook is equipped with a
"door-slam" effect.
Thereby door can also
be closed when locked.

Retractable handle polyamide GF black, compensator and lock catch zinc die
zinc pl., springs stainless steel, cam and fastening material m.s. zinc pl., with seal

keyed EK 333

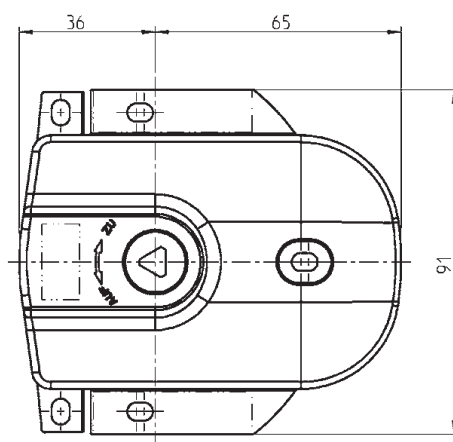
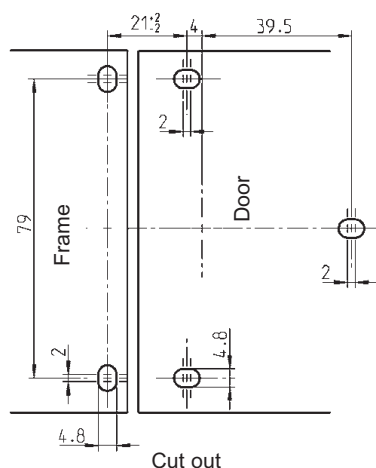
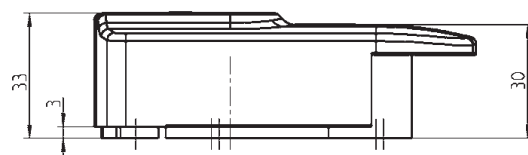
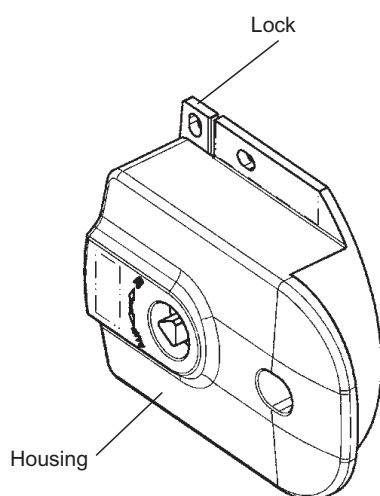
1130-U1

keyed different

1130-U2

Surface mounted door lock

PROGRAM 1000



Attention:
Insert not included

Suitable locking and non-locking T-handles and L-handles on request!

Further parts see page
– Insert

1B-140

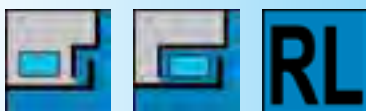
Housing and lock zinc die black p.c., stepped cam zinc die raw

for insert

1000-U778

12A-220

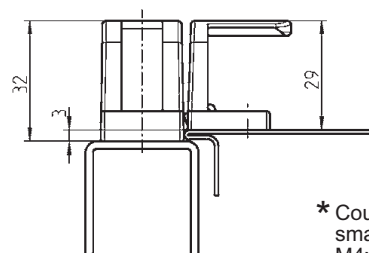
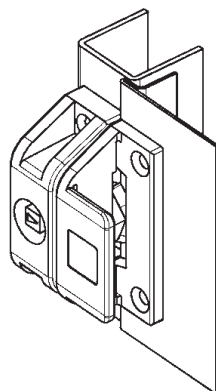
(1B-380)



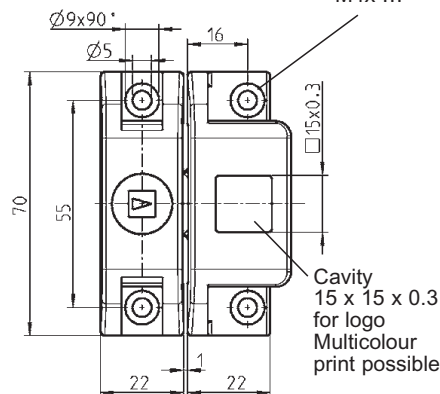
small head = DIN ISO 2009,
2010, 7046-1, 7046-2, 7047

* not included

Cam lock



* Counter sunk
small head
M4x ...

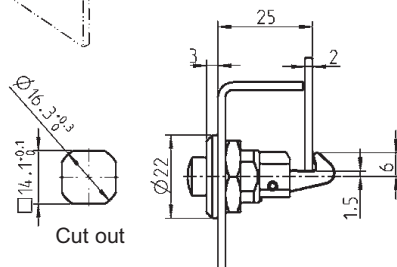
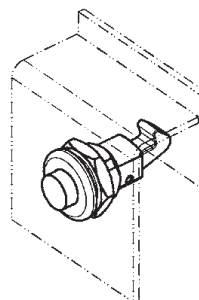
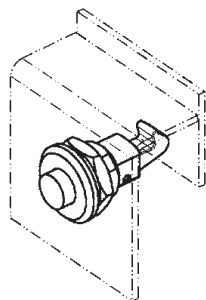


Cavity
15 x 15 x 0.3
for logo
Multicolour
print possible!

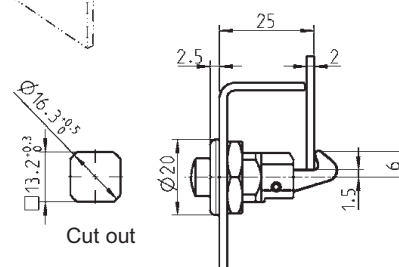
Cam lock polyamide black, insert zinc die chrome pl. cam, screw and wave washer m.s. zinc pl.

Square 7	1076-U5	Double bit 3	1076-U9
Square 8	1076-U6	Double bit 5	1076-U10
Triangular 7	1076-U7	Hexagon female SW 10	1076-U11
Triangular 8	1076-U8	Slot 2 x 4	1076-U12

Snap lock with and without seal



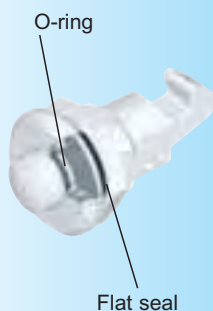
Cut out



Cut out

Version A

Version B



O-ring

Flat seal

with seal
Protection: IP 65

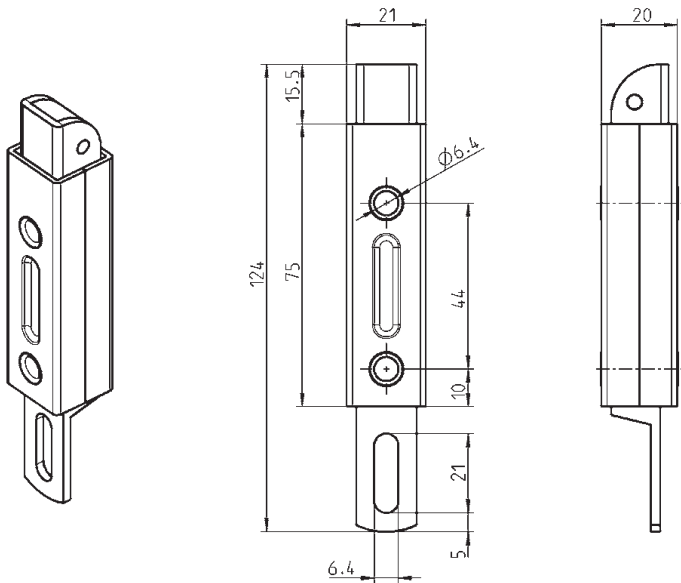
Snap lock zinc die chrome plated, without or with seal

Version A		Version B	
without seal	1047-U3	without seal	1047-U2
with seal IP 65	1047-U5	with seal IP 65	1047-U4

Slam-lock

PROGRAM 1034, 1085

Slam-lock

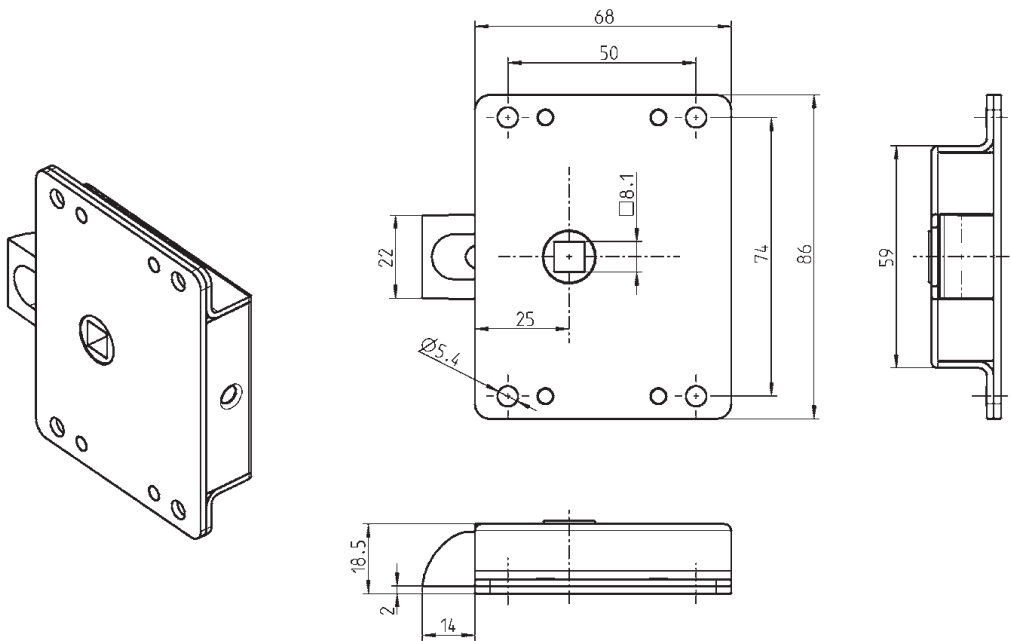


Rod connection can be bent for hand-operation on request

Slam-lock m.s. zinc plated

1085-U1

Slam-lock



Slam-lock m.s. zinc plated, lock and nut zinc die raw, spring m.s. polyamide

1034-U1

EMKA

Beschlagteile



Further parts see page
– Lock support and
insert 1C-340

12A-320
(6A-300)

Info	1 Quarter turns	2 Rod controls	3 Locking systems	4 Hinges	5 Gasketing	6 Handles	7 Aluminium windows	8 Stainless steel	9 Latches	10 Air-conditioning	11 ELM Security Systems	12 Miscellaneous
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Info

Quarter turns

1

Rod controls

2

Locking systems

3

Hinges

4

Gasketing

5

Handles

6

Aluminium windows

7

Stainless steel

8

Latches

9

Air-conditioning

10

ELM Security Systems

11

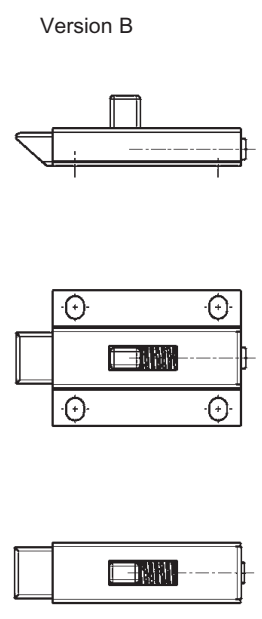
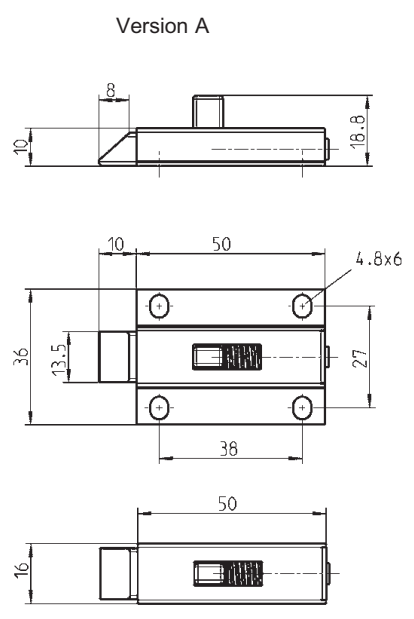
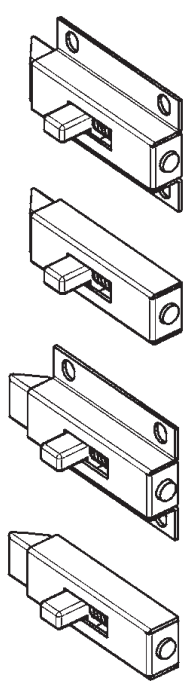
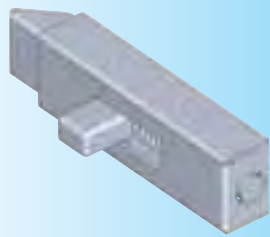
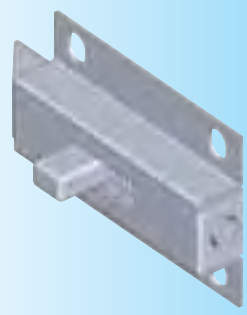
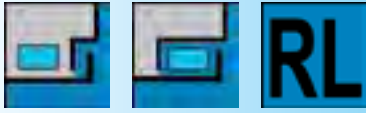
Miscellaneous

12

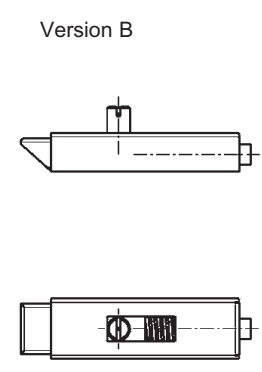
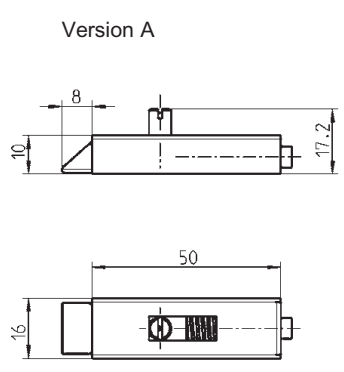
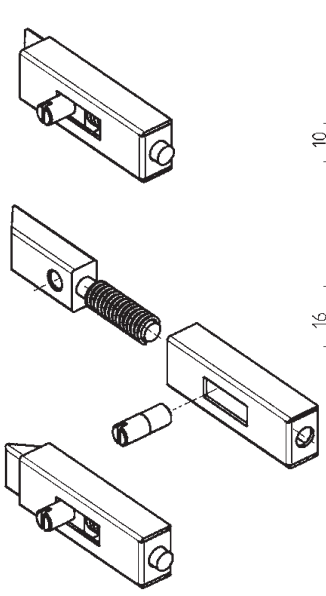


Slam-lock
PROGRAM 1053

Beschlagteile



Slam-lock m.s. zinc plated, cam zinc die zinc plated		
	Version A	Version B
screw-on	1053-U1	1053-U2
weld-on	1053-U3	1053-U4

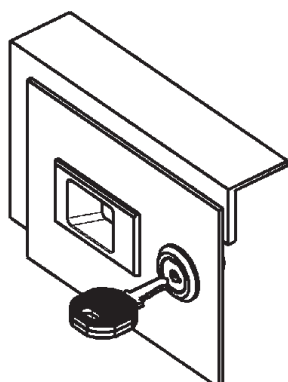


Customer can unassemble for welding on

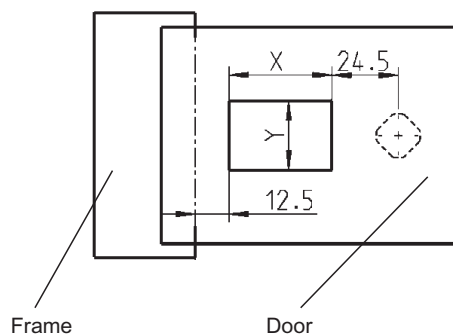
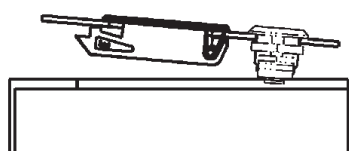
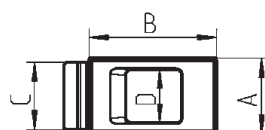
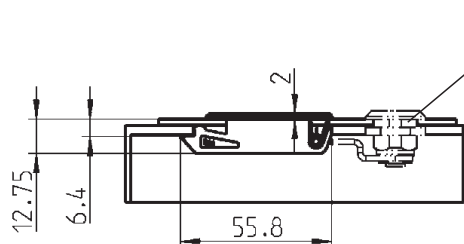
Slam-lock m.s. zinc plated, cam zinc die zinc plated		
	Version A	Version B
weld-on	1053-U5	1053-U6

Slide latch, snap-in installation

PROGRAM 1091



Lockable e.g. with quarter turn program 1022



Slide latch Polyamide black with spring stainless steel

Size		Ts = 1,2 – 1,6				Ts = 1,75 – 2,2	
1		1091-U114-01				1091-U114	
2		1091-U115-01				1091-U115	
3		on request				1091-U116	
Dim.	A	B	C	D	Door cut out	X	Y
1	28	47	25	20	1	38	25,5
2	47	47	44	39,5	2	38	44,5
3	86	47	83	78,5	3	38	83,5

Fit for door gauge 1,2 up to 2,2 mm.

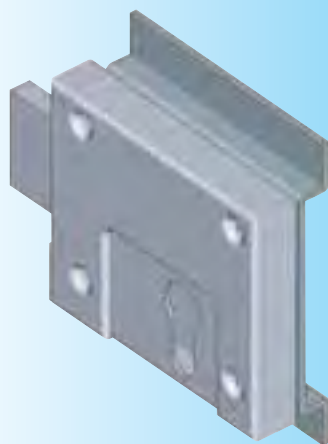
Further parts see page
– Quarter turn 1A-120
up to 1A-160

12A-420

(6B-290)

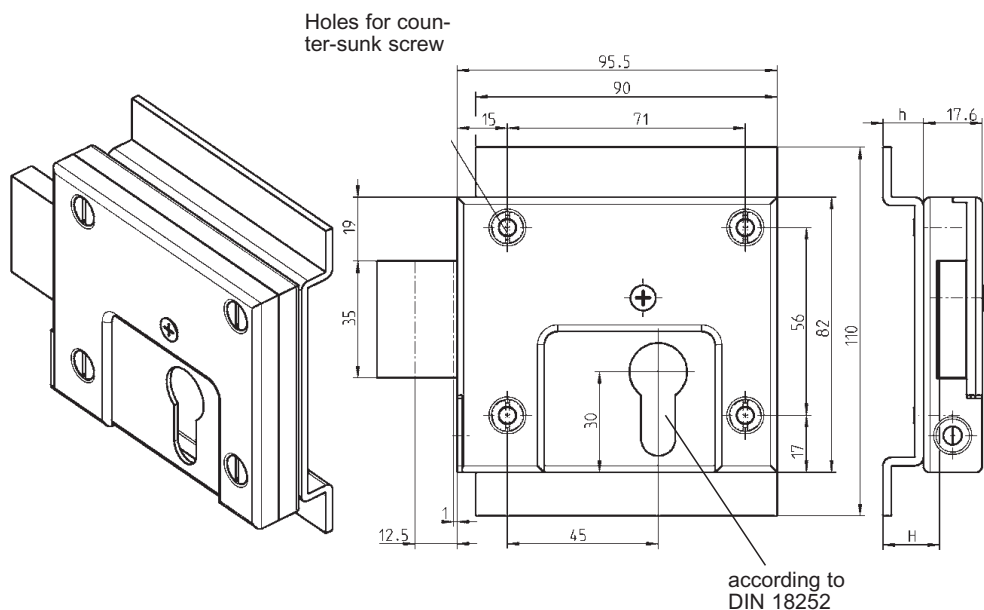
Dead-bolt lock PROGRAM 1080

Dead-bolt lock



Dead-bolt lock for both LH/RH

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



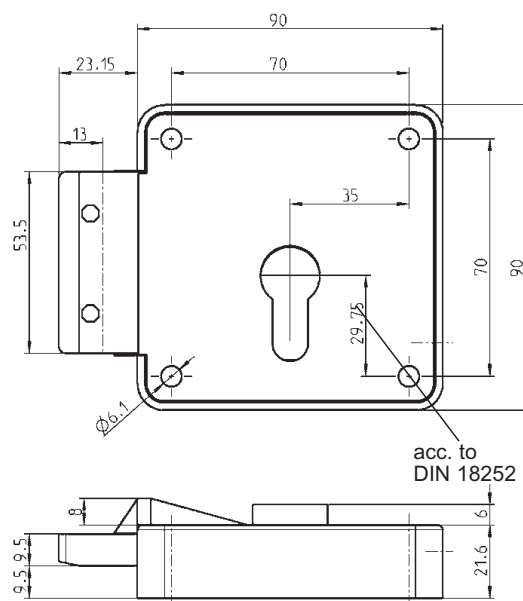
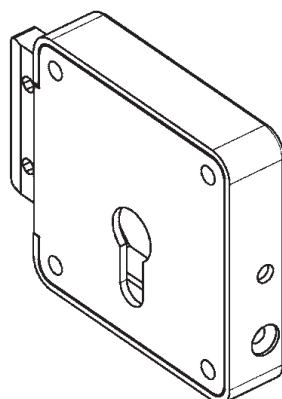
Dead-bolt lock m.s. zinc plated

1080-U1

Lock support m.s.raw

H	H	Profile cylinder length	
16,5	12	40	1080-01
26,5	22	50	1080-02

Dead-bolt lock in plastic



Further parts see page
– Profile half cylinder 2B-220
– Escutcheon 12D-120

Plastic dead-bolt lock, housing in polycarbonate, grey, cam in acetyl-resin, grey spring POM, grey

1080-U2

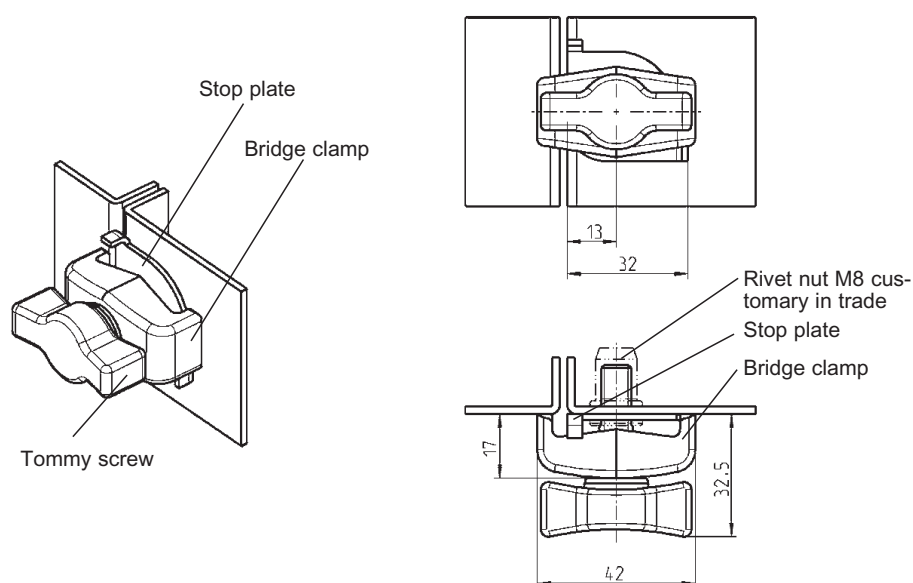
12A-520

(6A-310)

Bridge clamp system

PROGRAM 1076

Bridge clamp system



Bridge clamp system consisting of:

Bridge clamp polyamide black	1076-14
Tommy screw m.s. zinc pl./polyamide black	1076-15
Stop bracket m.s. zinc. pl.	1076-16

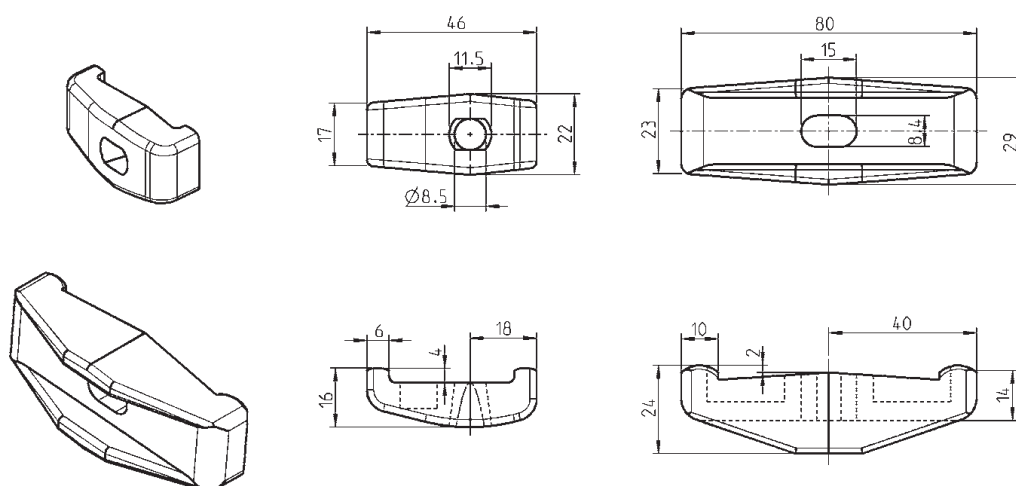
Captive with:

O-ring	1076-25
--------	---------

Bridge clamp

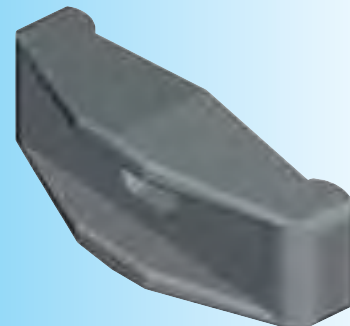
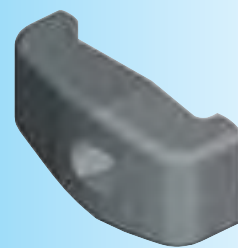
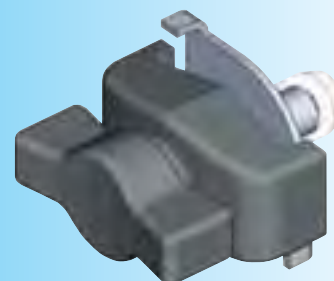
Version A

Version B



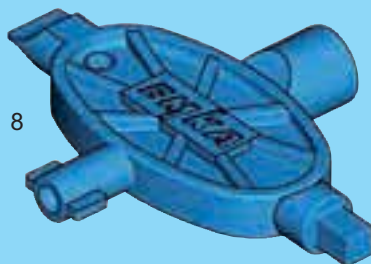
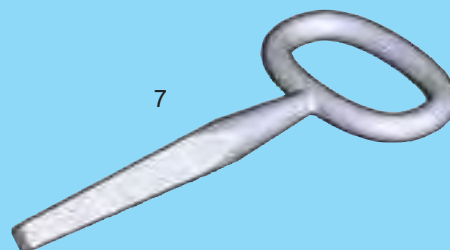
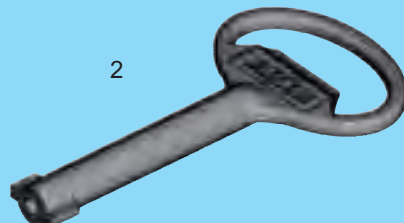
Bridge clamp polyamide black

Version A	Version B
1076-19	1076-20



Info	EMKA® Beschlagteile
Quarter turns	Notes:
1	
Rod controls	
2	
Locking systems	
3	
Hinges	
4	
Gasketing	
5	
Handles	
6	
Aluminium windows	
7	
Stainless steel	
8	
Latches	
9	
Air-conditioning	
10	
ELM Security Systems	
11	
Miscellaneous	
12	

Key Program 1004, 1108



- | | | |
|---|-------------------------------|---------|
| 1 | Key, large e.g. square | 12B-120 |
| 2 | Key double bit large | 12B-120 |
| 3 | Key, small e.g. square | 12B-120 |
| 4 | Key, small e.g. square | 12B-120 |
| 5 | Key double bit small | 12B-120 |
| 6 | Key FIAT | 12B-120 |
| 7 | Key square male 6,5 – 8,5 | 12B-120 |
| 8 | Key universal | 12B-120 |
| 9 | EMKA-key example keyed EK 333 | 12B-140 |

12B-100

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Gasketing

6 Handles

7 Aluminium windows

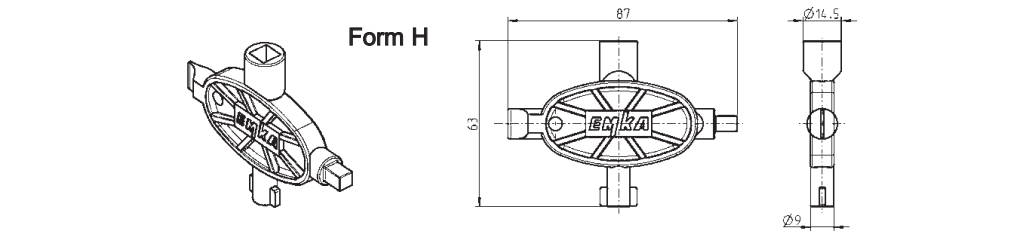
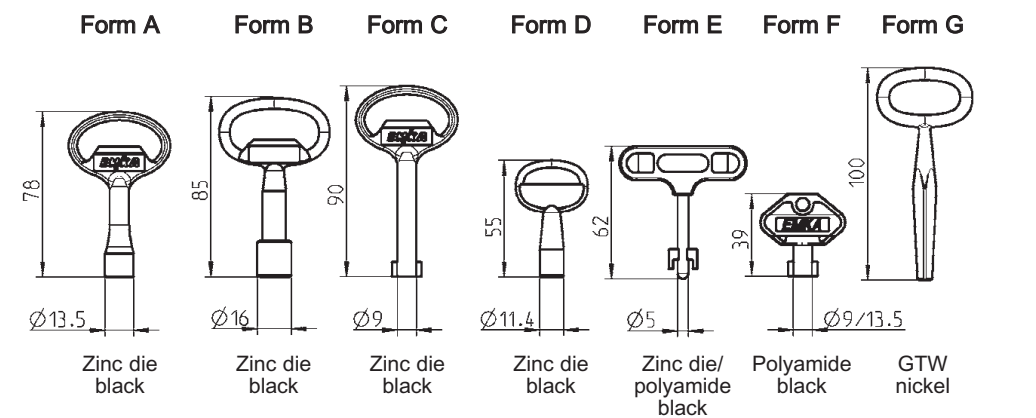
8 Stainless steel

9 Latches

10 Air-conditioning

11 ELM Security Systems

12 Miscellaneous

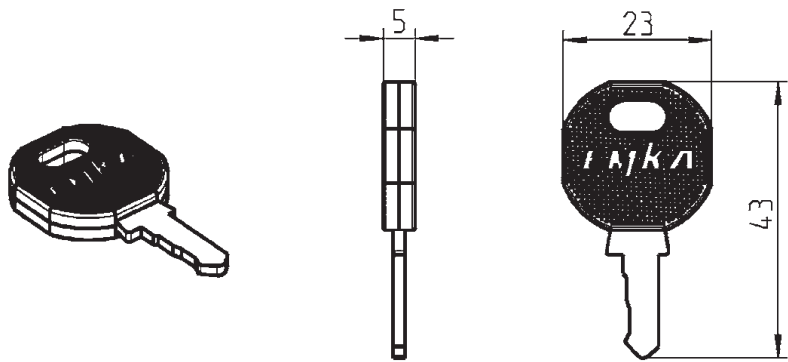
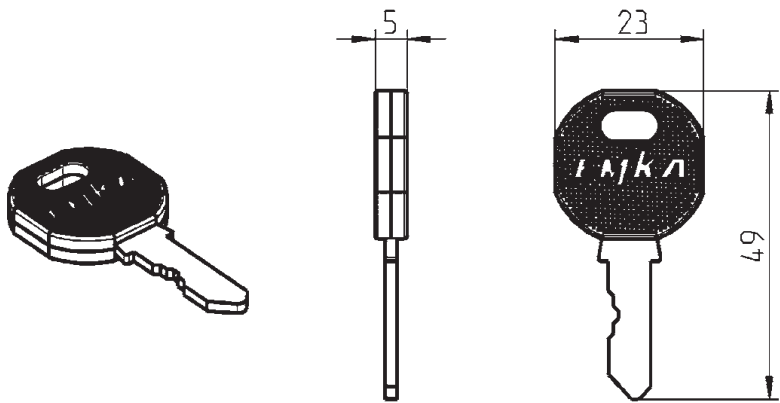


Keys can be supplied on request with customer logo
 Minimum quantity: Form A, B, C, D
 Minimum quantity: Form E

2.000 pieces
 5.000 pieces

Key-Form	A	B	C	D	E	F	G
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	1004-26	–	–	–	–	–	–
Triangular 7	1004-03	–	–	–	–	1004-39	–
Triangular 8	1004-04	–	–	–	–	1004-38	–
Triangular 10	–	1004-24	–	–	–	–	–
Crown type	–	1004-31	–	–	–	–	–
Eastern Europe Ø13 half round	–	1004-42	–	–	–	–	–
Double bit 3	–	–	1004-05	–	–	1004-34	–
Double bit 5	–	–	1004-06	–	–	1004-33	–
Daimler Benz	1004-17	–	–	–	–	–	–
FIAT	–	–	–	–	1004-41	–	–
Square male 6	1004-29	–	–	–	–	–	–
Square male 8	1004-30	–	–	–	–	–	–
Square male 6,5 – 8,5	–	–	–	–	–	–	1004-19
Hexagon head 8 with boring	1004-49	–	–	–	–	–	–
Form H, universal-key polyamide blue							
Square 6, Square male 8, Double bit 5 and Slot insert							1004-48

Attention:
 Keys from A, B, C, E, F and G not suitable for program 1022



EMKA-key silver steel with grip polyamide black program
1000, 1048, 1109, 1121, 1125, 1150, 1160, 1180, 1200, 1210, 1225, 2100, 2300, 2400, 2600

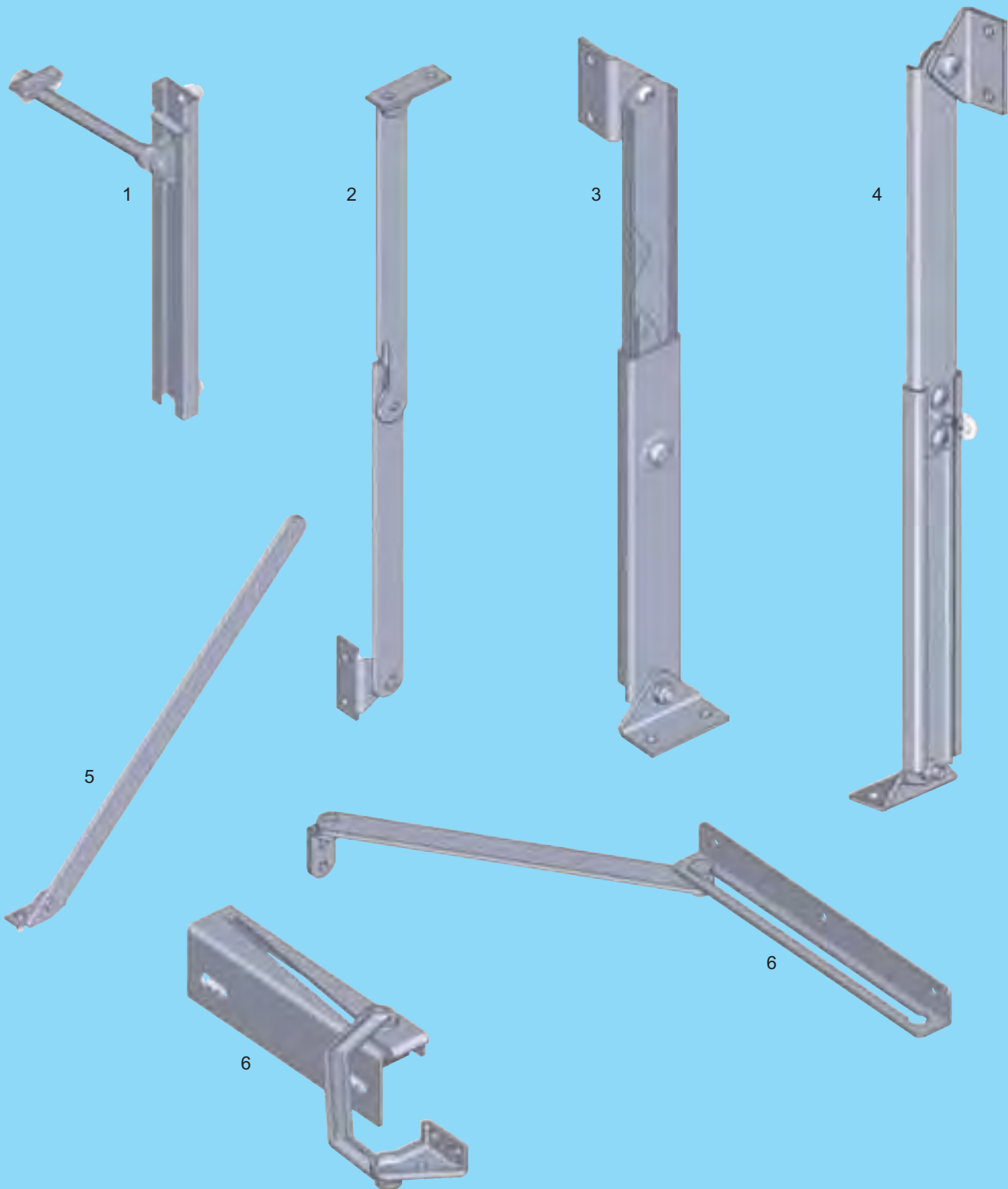
keyed EK 333	1108-U35
keyed different	1108-U36-different

for program 1022, 1200, 2100, 2400

keyed 2233X	1108-U37
keyed different	1108-U38-different

Note:
Further keys on request

Cover stay and door stop



- | | | |
|---|--|---------|
| 1 | Double stay self catching | 12C-120 |
| 2 | Cover stay with locking pawl | 12C-180 |
| 3 | Telescopic cover stay self catching | 12C-160 |
| 4 | Telescopic cover stay self catching and with push button | 12C-140 |
| 5 | Cover stay | 12C-180 |
| 6 | Door stop | 12C-220 |

12C-100

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Gasketing

6 Handles

7 Aluminium windows

8 Stainless steel

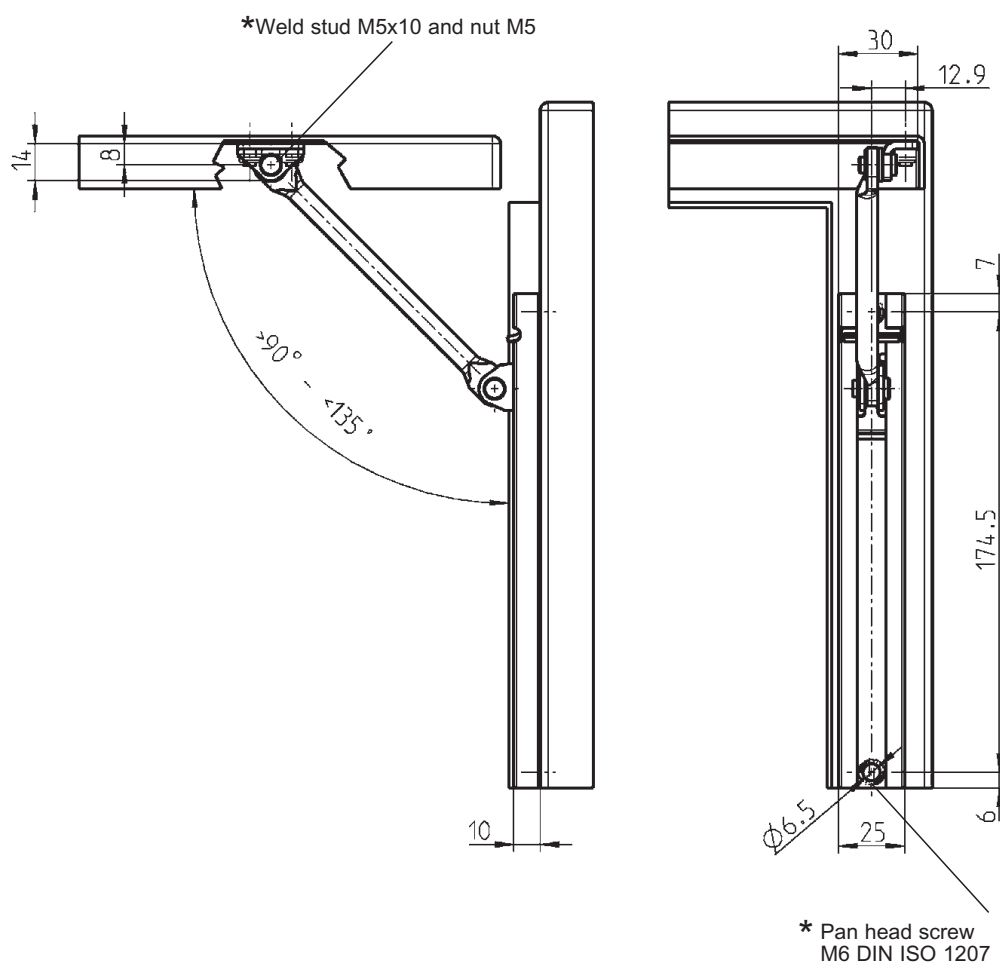
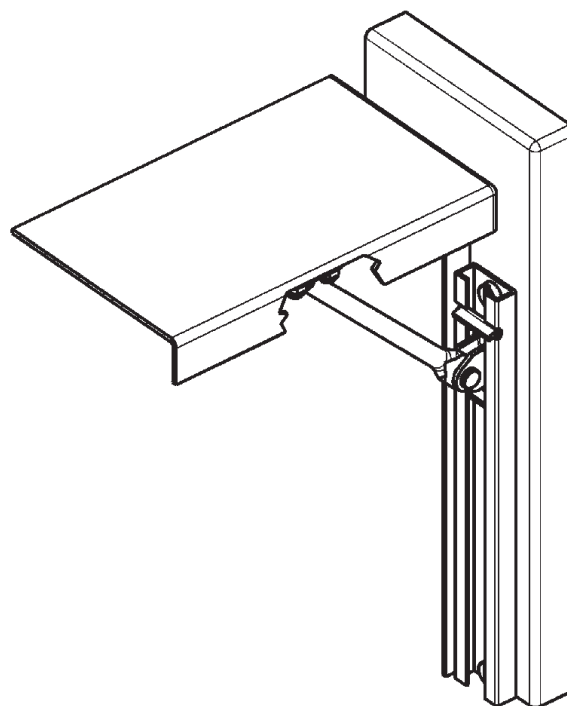
9 Latches

10 Air-conditioning

11 ELM Security Systems

12 Miscellaneous

RL



* not included

The opening angle of 90°–135° depends on the choice of hinges.

Further parts see page
– Hinge for prominent door

Chapter 4

Cover stay m.s. zinc pl.

1050-U3

12C-120

(6A-170)

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Gasketing

6 Handles

7 Aluminium windows

8 Stainless steel

9 Latches

10 Air-conditioning

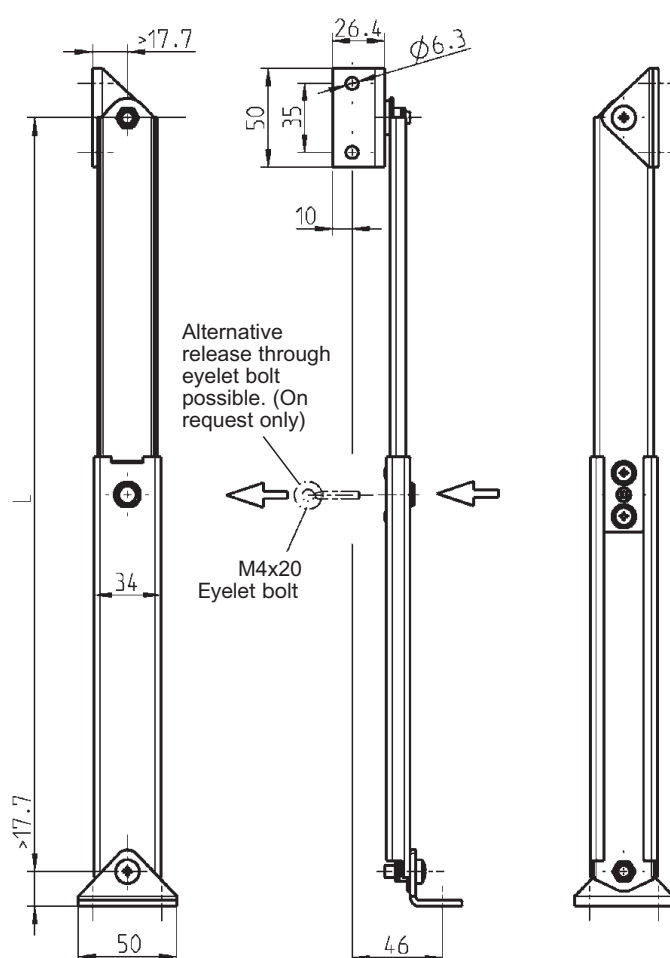
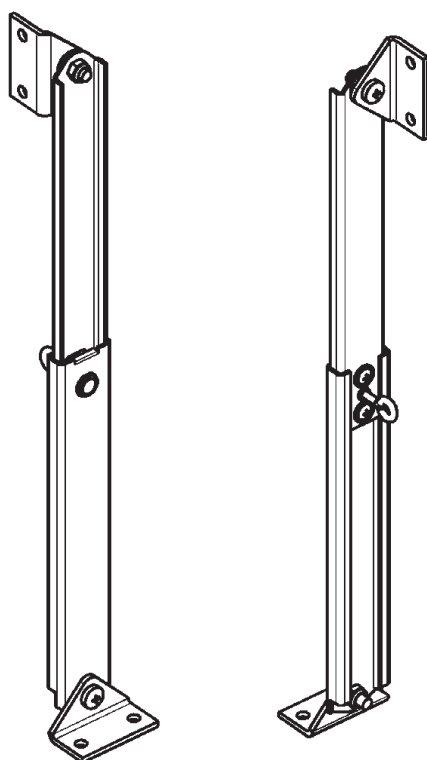
11 ELM Security Systems

12 Miscellaneous

Telescopic cover stay with push button to release PROGRAM 1097

RL

2D

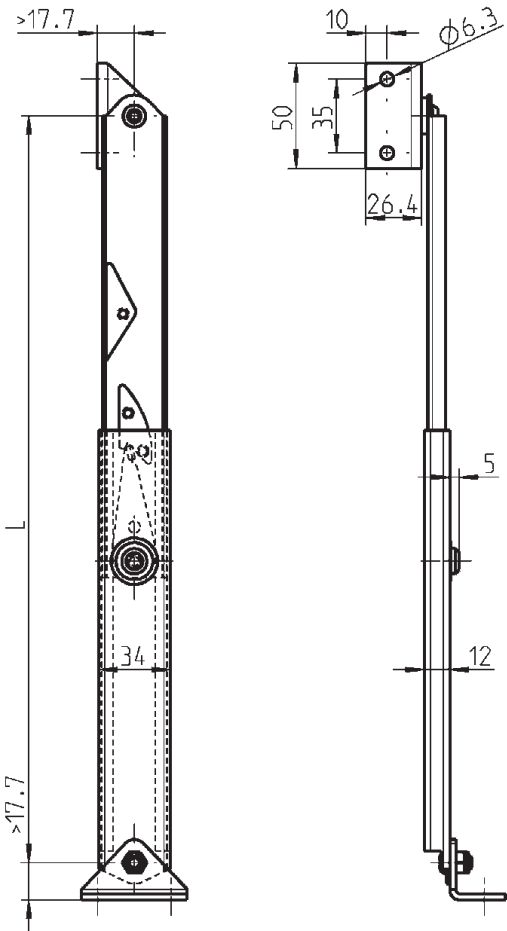
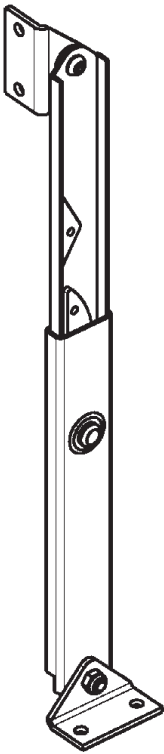


Telescopic cover stay m.s. zinc pl., push button zinc die chrome pl.

	retracted	extended	
Dimension L	213	382	1097-U5
Dimension L	377	710	1097-U6

Further parts see page
– Hinge for prominent door
– 2D-nut

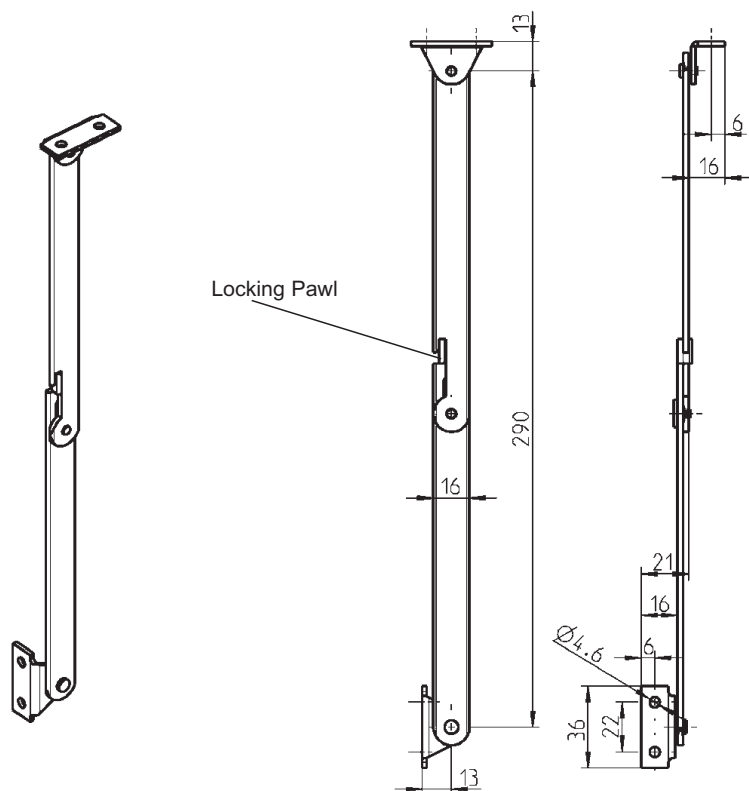
Chapter 4
12E-120



Further parts see page
 – Hinge for prominent door Chapter 4
 – 2D-nut 12E-120

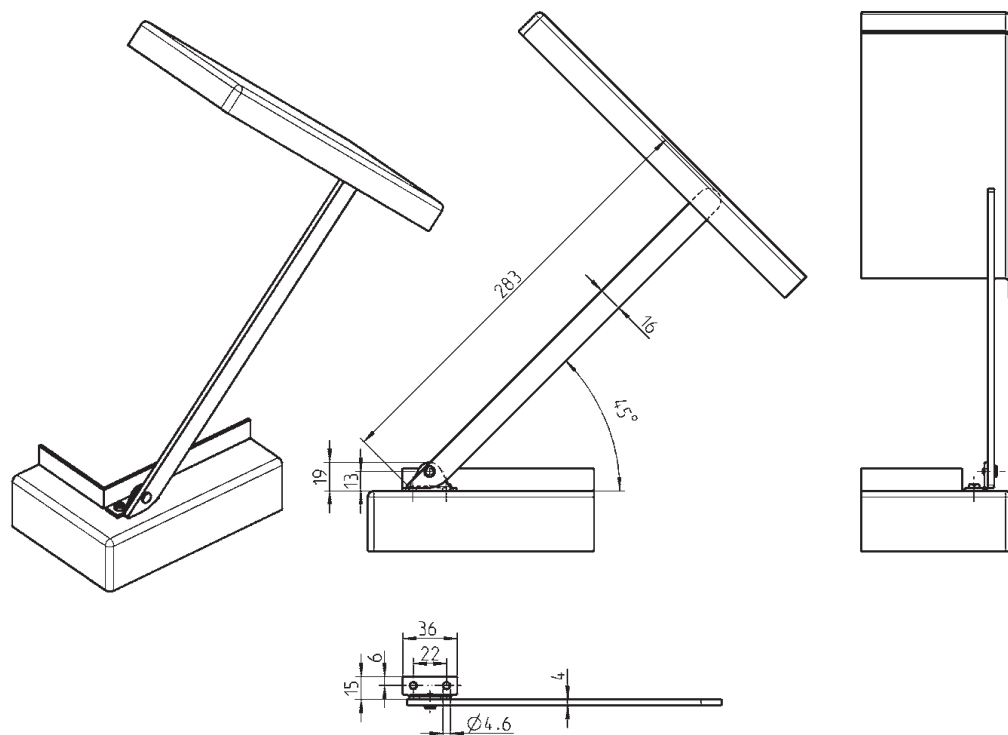
Telescopic cover stay m.s. zinc plated			
	retracted	extended	
Dimension L	215	360	1097-U1
Dimension L	398	685	1097-U2

Cover stay PROGRAM 1050, 1070



Cover stay m.s. nickel plated

RH	1050-U1
LH	1050-U2



Cover stay m.s. zinc plated

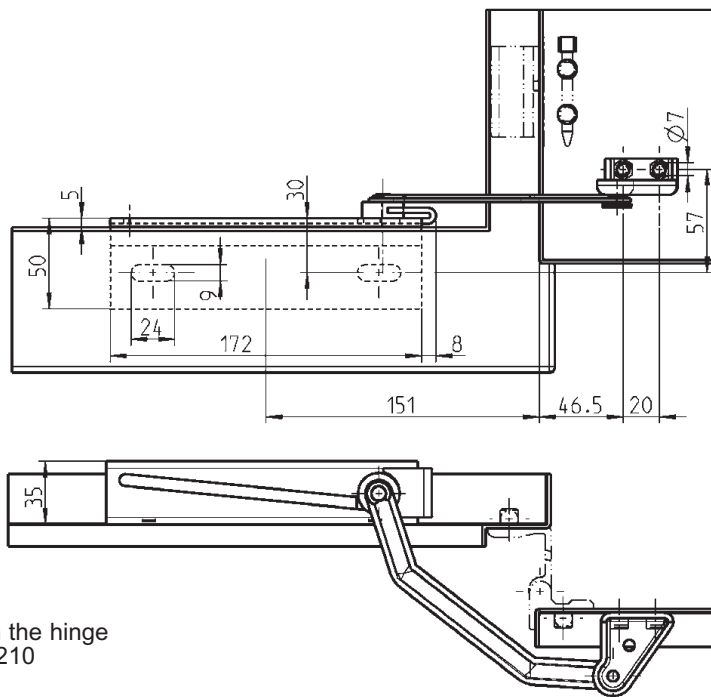
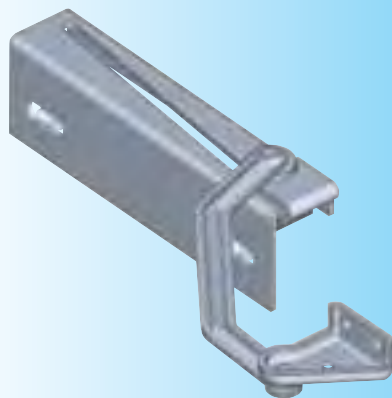
RH	1070-U1
LH	1070-U2

RL



Further parts see page
– Hinge Chapter 4

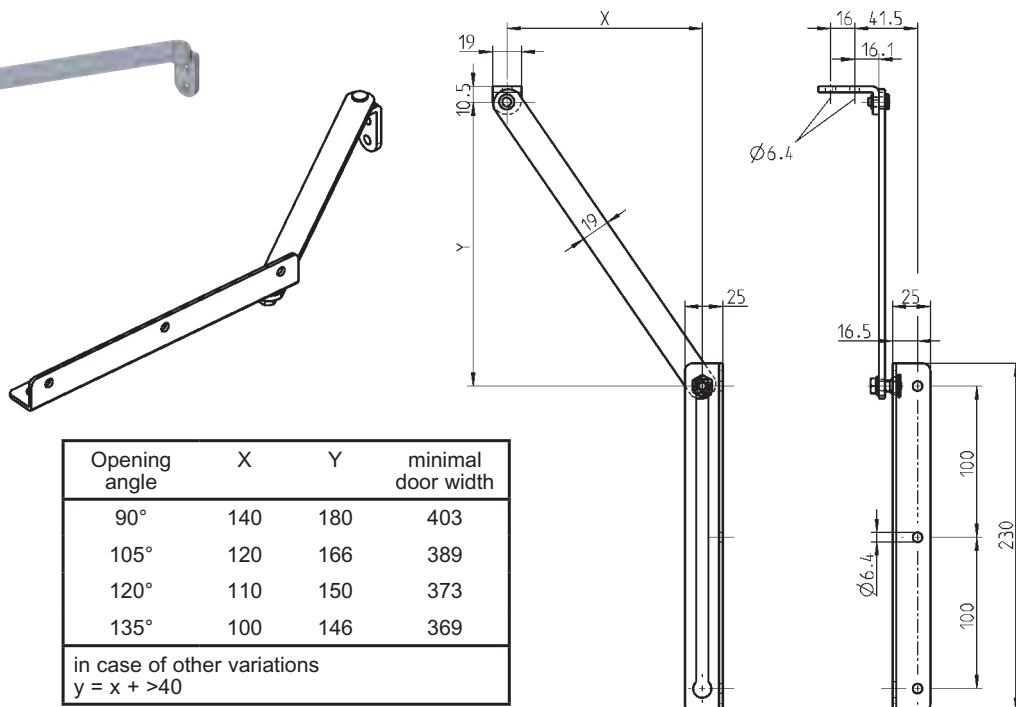
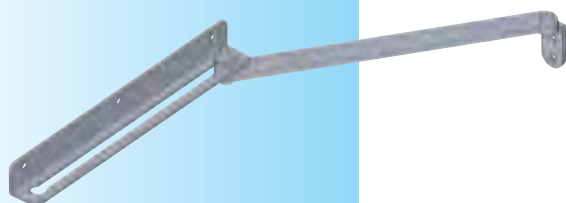
R L RL



Attention:
For fitting with the hinge
see page 4A-210

180° Door stop m.s. zinc plated, guide plate polyamide GF black

RH	1087-U2
LH	1087-U3



Opening angle	X	Y	minimal door width
90°	140	180	403
105°	120	166	389
120°	110	150	373
135°	100	146	369
in case of other variations $y = x + >40$			

Further parts see page
– Hinge for example

4A-210

Door stop m.s. zinc plated

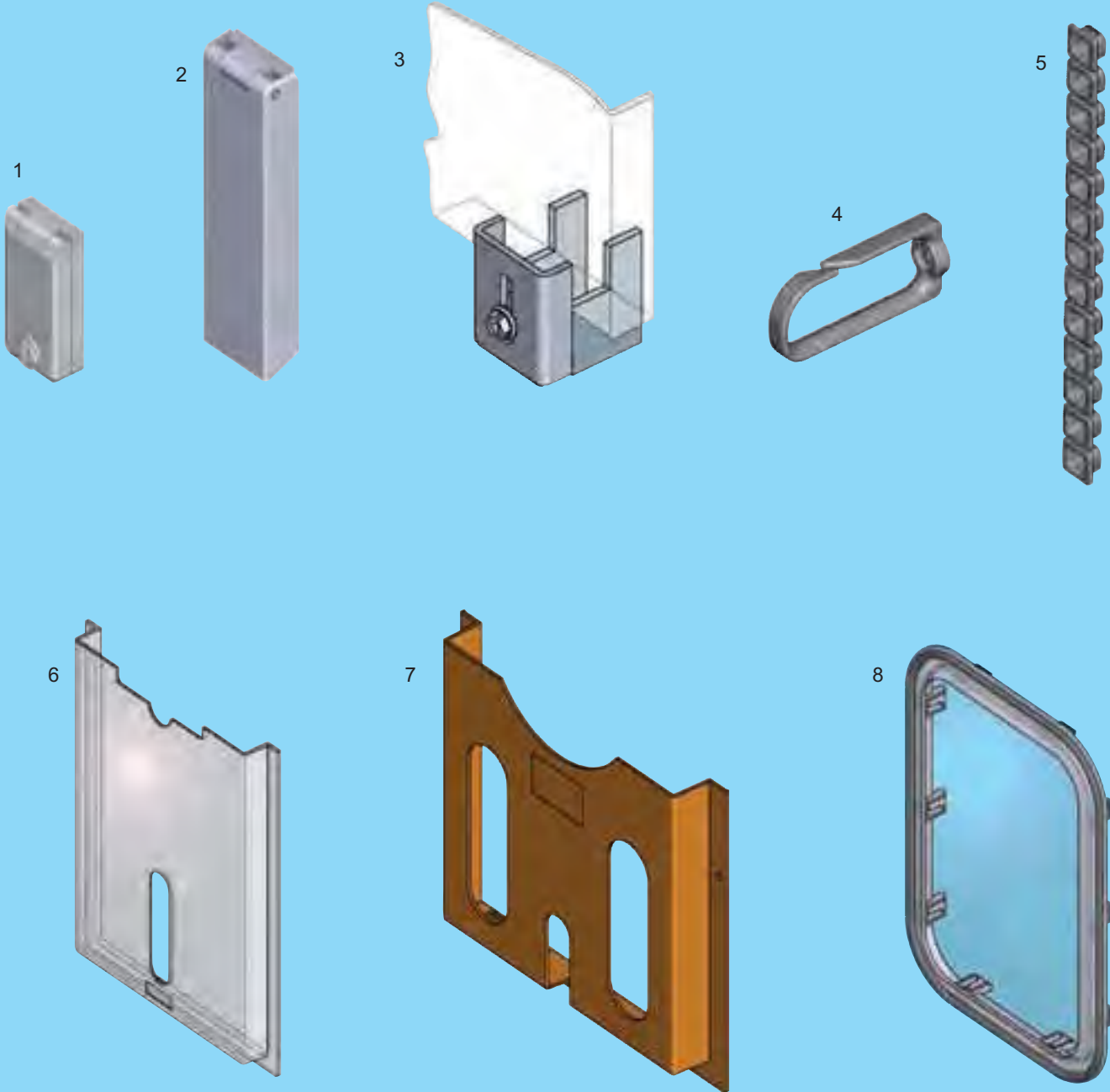
1087-U1

12C-220

(6A-220)

Accessories Accessories

Escutcheon, panel mounting device, cable shunting ring, drawing pocket, window



1	Escutcheon e.g. for profile half cylinder	12D-120
2	Escutcheon e.g. in conjunction with Program 1068	12D-120
3	Panel mounting device for fitting panels, back plates etc	12D-220
4	Cable shunting ring	12D-320
5	Cable grommet	12D-320
6	Drawing pocket transparent	12D-420
7	Drawing pocket e.g. for DIN A4 format	12D-420
8	Window	12D-520

12D-100

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Gasketing

6 Handles

7 Aluminium windows

8 Stainless steel

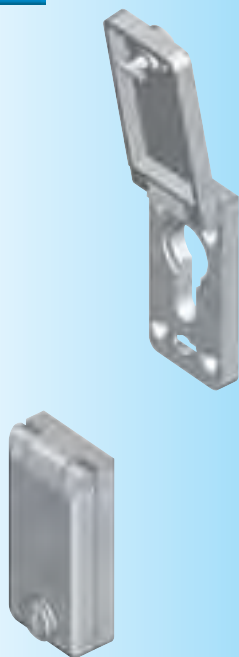
9 Latches

10 Air-conditioning

11 ELM Security Systems

12 Miscellaneous

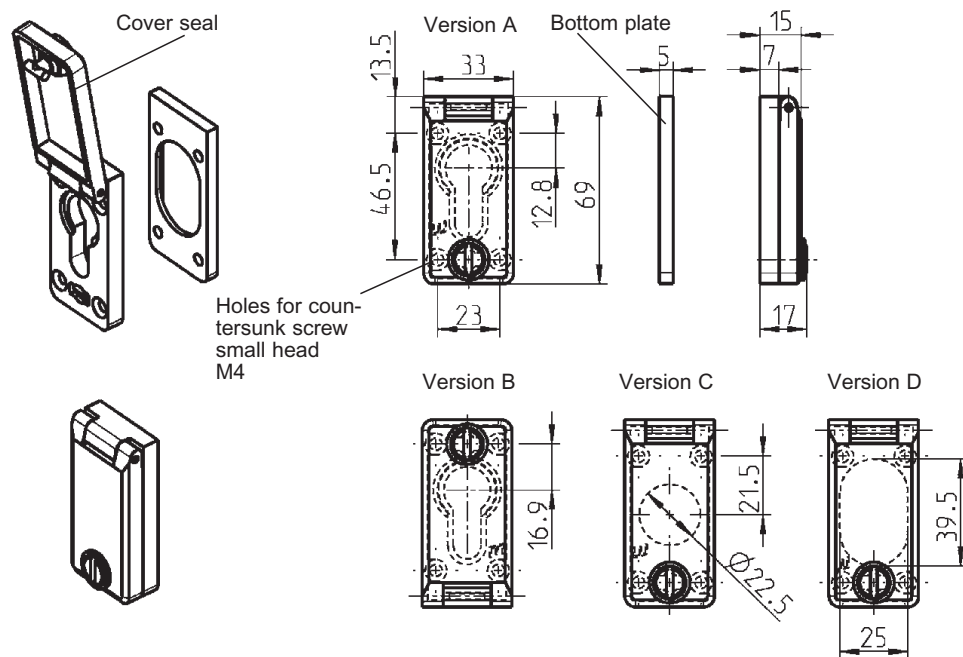
RL



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

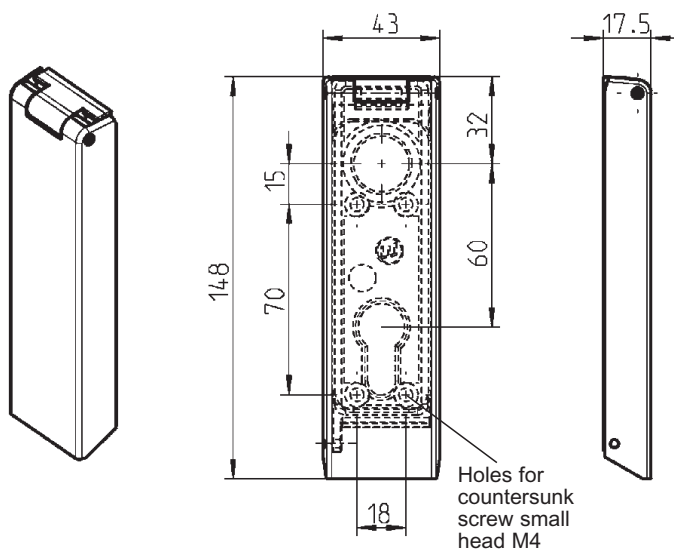


Further parts see page
– suitable for rod system 2A-120
2B-140



Escutcheon in grey polyamide, RAL 7032

Version A for profile half cylinder	1072-U1	Version A for profile cylinder, sealable	1072-U11
Version B for profile half cylinder	1072-U13	Version B for profile cylinder, sealable	1072-U12
Version C with round hole Ø 22,5	1072-U15	Version C with round hole Ø 22,5, sealable	1072-U14
Version D with universal hole	1072-U16	Version D with universal hole, sealable	1072-U17
Bottom plate, grey polyamide			1072-01
Bottom plate seal, sponge rubber			1072-02
cover seal, sponge rubber			1072-03



Escutcheon zinc die silver, sealable and waterspray protected, with gasketing

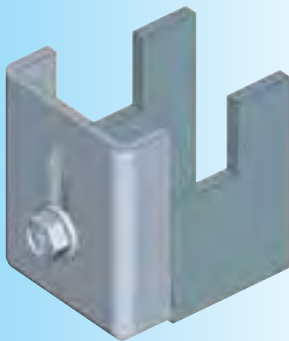
1018-U1

12D-120

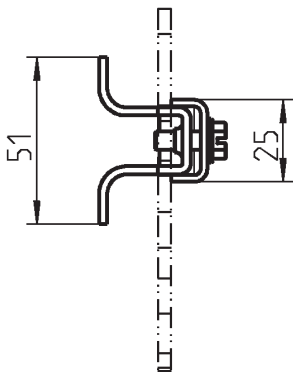
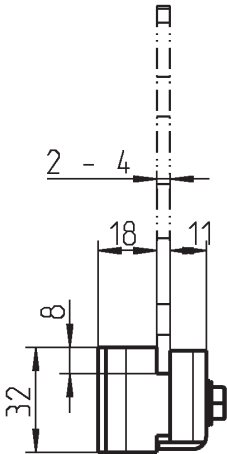
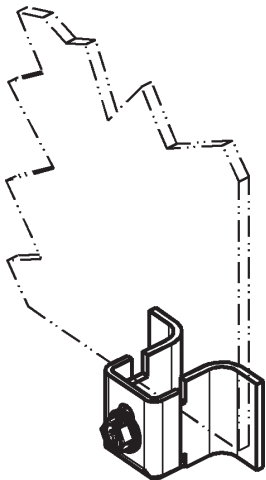
(6A-330)

Panel mounting device PROGRAM 1051

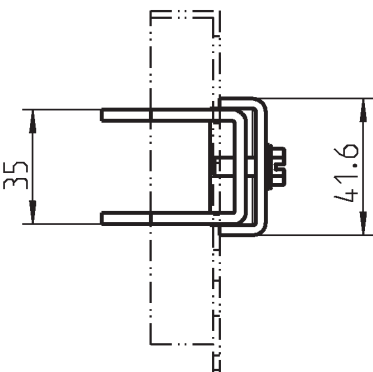
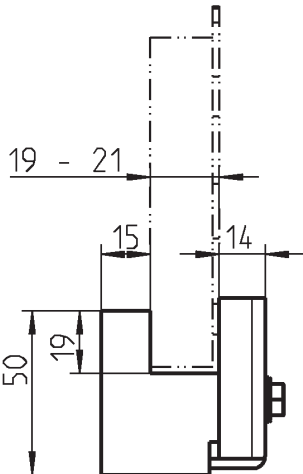
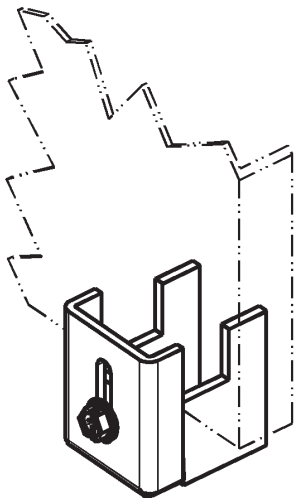
RL



Version A

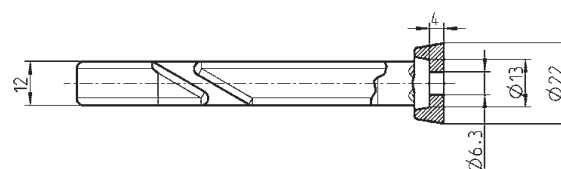
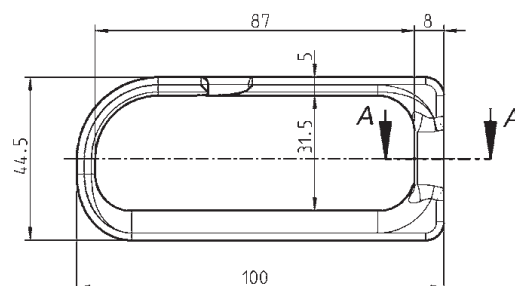
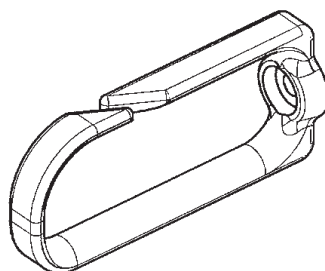
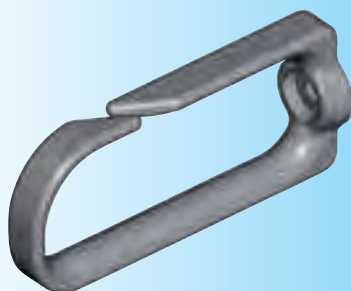


Version B



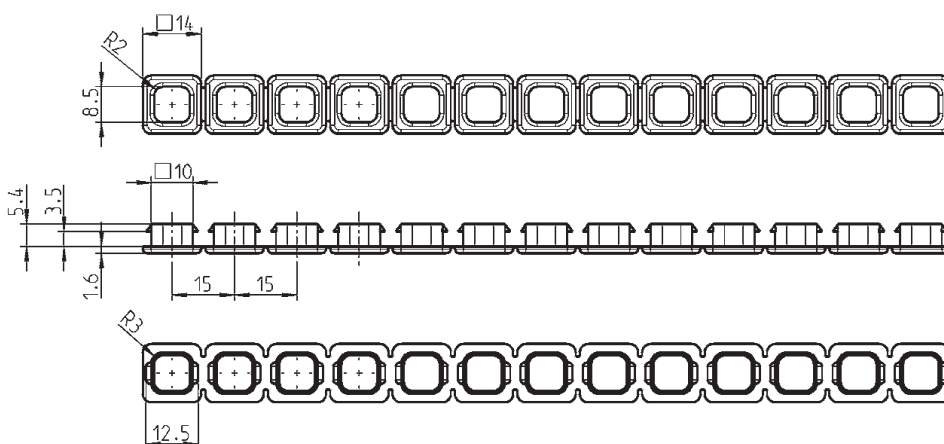
Panel mounting device m.s. zinc plated, weld-on part m.s. raw		
	Version A	Version B
	1051-U2	1051-U1

RL



Cable shunting ring polyamide V0 black
fixing material M6

1071-01



Further parts see page
– Electronic locking systems
Chapter 11

Cable grommet low density polyethelene black

Bar of 13 pieces

1071-U1

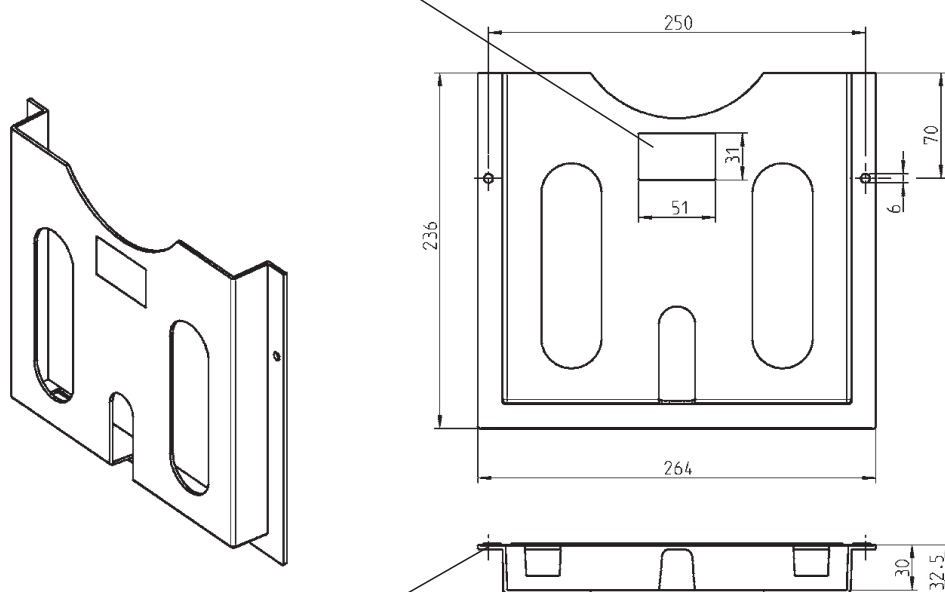
12D-320

(6A-240)

Drawing pocket

PROGRAM 1013

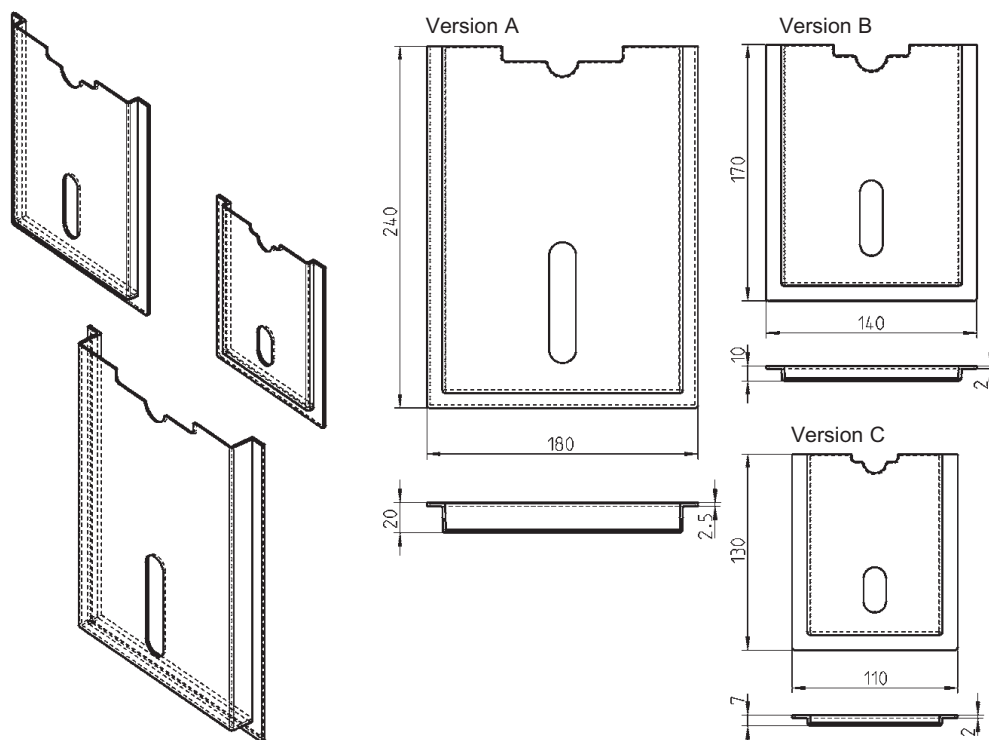
cavity 51x31x0,2, moulded logo or multicolour print possible



Self-adhesive, for heavy duty application use the 2 installation-holes Size DIN A4

Drawing pocket PS impact proof, self-adhesive

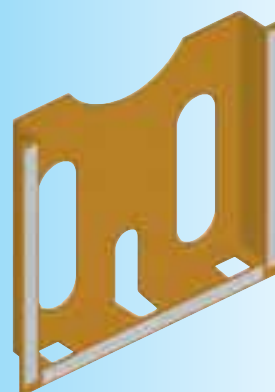
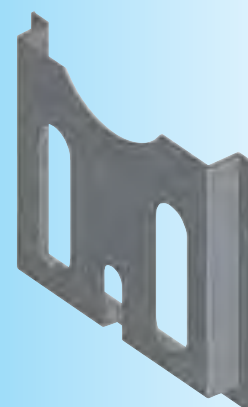
grey	1013-U1
orange	1013-U2



Drawing pocket SAN, transparent, self-adhesive

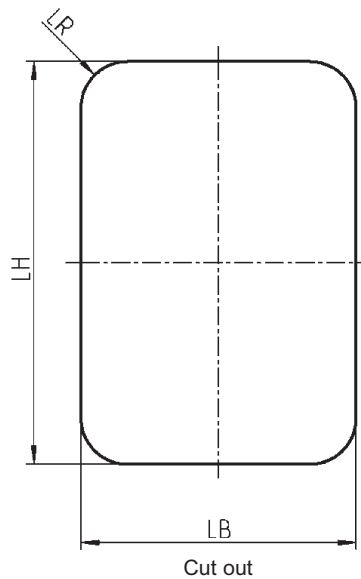
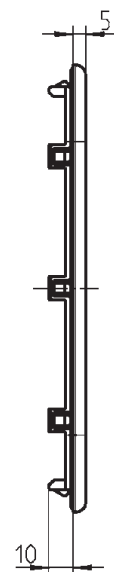
Version A	1013-U5
Version B	1013-U4
Version C	1013-U3

RL



12D-420

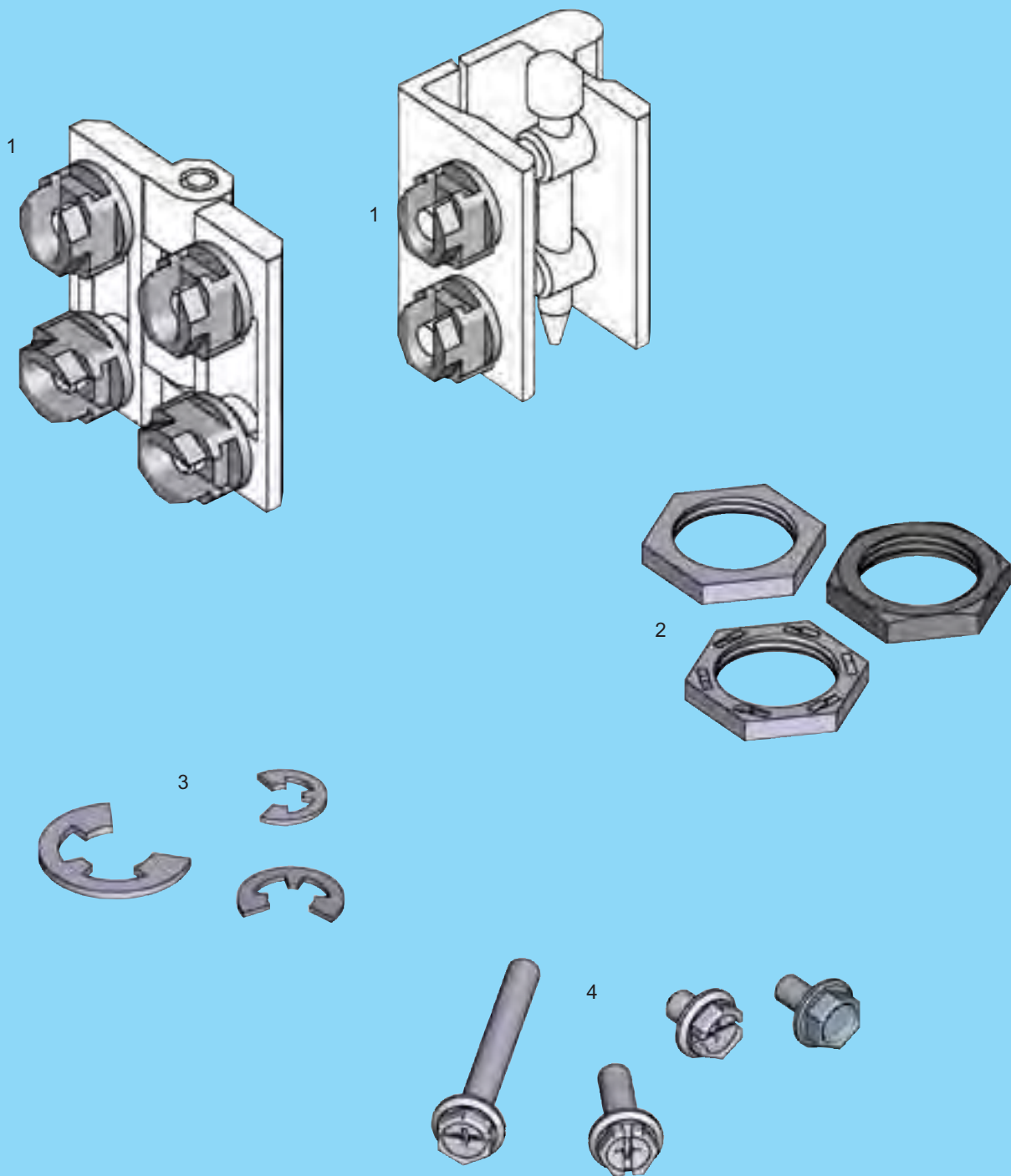
(6A-250)



H	B	LH	LB	LR	Ts	
110	110	94,4	94,4	6	1,5	1250-U1
110	110	94,4	94,4	6	2	1250-U3
175	125	157,2	107,2	20	1,5	1250-U2

(6A-260)

Fixing material

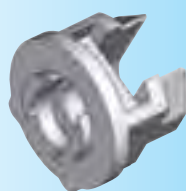


- | | | |
|---|---|---------|
| 1 | 2D-nut example for assembling hinge | 12E-120 |
| 2 | Nut for program 1000, 1001, 1022, 1102, 1103 und 1107 | 12E-140 |
| 3 | Circlip DIN 6799 | 12E-140 |
| 4 | Vibration proof screw with and without locitite | 12E-160 |

12E-100

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Gasketing
6 Handles
7 Aluminium windows
8 Stainless steel
9 Latches
10 Air-conditioning
11 ELM Security Systems
12 Miscellaneous

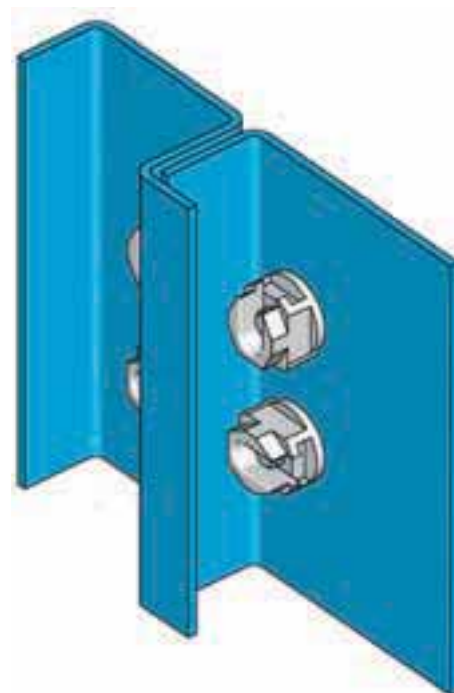
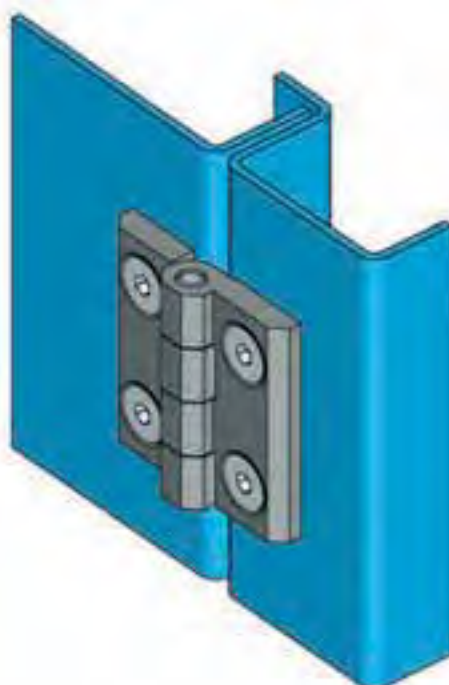
Example
for assembling hinge for in-line door



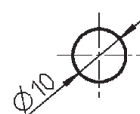
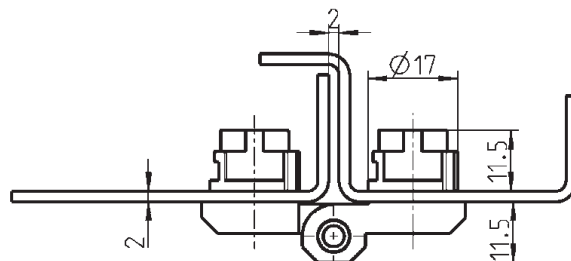
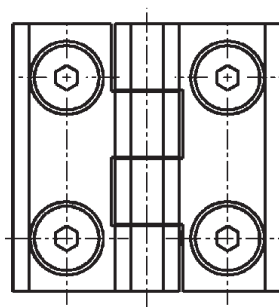
Cut out
Ø10



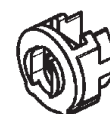
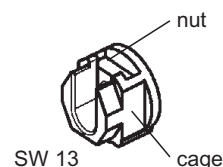
Example for
assembling catch



Attention:
every 2D-nut is adjustable
± 2 mm in the horizontal
and vertical direction.



Cut out for 2D-nut M6



Convenience:
1. Identification of
adjustability is not
possible from the
outside.
2. By using the 2D-nut it
is possible to use every
front mounted hinge or
catch as an 2D part.

other thread parameters
on request

Further parts see page

- Catch 3ZA-1220
- Hinge for prominent door
 - 4A-138
 - 4A-140
 - 4A-170
 - 4A-210
 - 4A-215
 - 8B-180
- Hinge for in-line door
 - 4B-200
 - 4B-215
 - 4B-245
 - 8B-360
 - 8B-380
- Cover stay
 - 12C-140
 - 12C-160

2D-nut
cage zinc die zinc plated, Flat steel zinc pl.

M6 with SW 13

1056-U51

Nut, circlip

PROGRAM UNIVERSAL

Nut



Screw-in safety earthing quarter turn program

By use of the earthenut our screw-in quarter turn is in accordance to the standard VDE-Vorschrift 0660/part 5.

The earthenut is produced with teeth, which under pressure removes the enamel in a limited way and makes sure there is a metallic contact (earthing).

Standard washers could not meet this requirement due to the high quality of the enamel.

Earthing of a cabinet should be inspected by qualified personnel.

Nut M16x1 for program 1022

		Zinc die	m.s. zinc pl.
Nut		–	1022-05-JB
Earthnut		1022-11-01KA	1022-11-JB

Nut M22x1,5 for program 1000

	m.s. zinc plated	AISI 303	polyamide
Nut	1000-02-JB	1000-02-PF	1000-02-SI
Earthnut	1000-111-JB	–	–

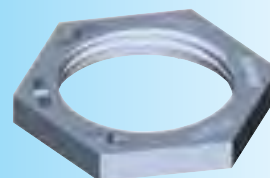
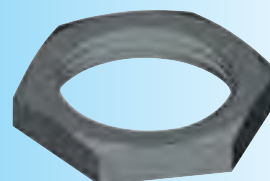
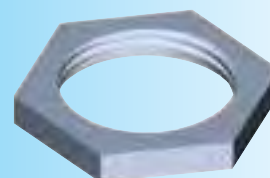
Circlip



Circlip DIN 6799

d	m.s. zinc pl.	AISI 303
4	000039	–
5	000042	000041
6	000048	–
8	000154	–

Beschlagteile



EMKA

Beschlagteile

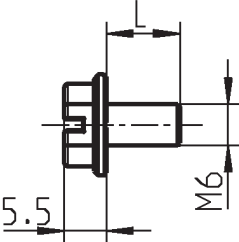
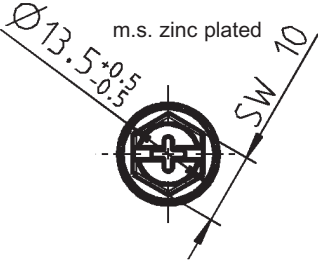
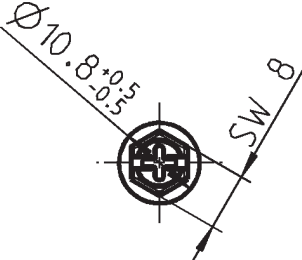
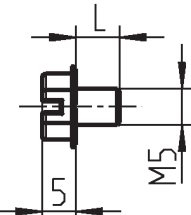







Vibration proof screw

PROGRAM UNIVERSAL



Vibration proof screw with Philips head, slot and hexagon (not AISI 303)			
M6xL	m.s. zinc plated	m.s. zinc pl.	AISI 303
		with locitite	
6	1000-277-02JB	1000-277-02JC	–
8	1000-277-03JB	1000-277-03JC	–
10	1000-277-01JB	1000-277-01JC	1000-277-01PI
16	1000-277-11JB	1000-277-11JC	–
20	1000-277-04JB	1000-277-04JC	–
23	–	1000-277-13JC	–
25	1000-277-05JB	1000-277-05JC	–
30	1000-277-06JB	–	–
40	1000-277-07JB	–	–
50	1000-277-21JB	–	–
M5xL			m.s. zinc plated
6			1000-277-09JB

12E-160

(10A-160)

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1000-10 - ...-17	3YA-820	1000-293 - ...-311	3YB-440
1000-10 - ...-17	3YB-440	1000-352	2A-120
1000-10 - ...-22	1C-130	1000-358 - ...-359	1C-320
1000-11 - ...-22	1B-820	1000-386 - ...-386-30	1B-160
1000-11 - ...-22	1C-120	1000-386 - ...-386-30	1C-140
1000-13 - ...-22	1B-340	1000-387	1B-240
1000-23 - ...-24	1B-140	1000-390 - ...-392	10A-520
1000-23 - ...-24	1B-160	1000-456	1C-360
1000-23 - ...-24	1B-360	1000-460	1C-340
1000-23 - ...-24	1B-760	1000-990	10A-520
1000-23 - ...-24	1B-840	1000-990	1B-120
1000-23 - ...-24	1B-860	1000-990	3J-120
1000-23	1C-320	1000-990 - ...-991	1B-140
1000-23 - ...-24	2A-120	1000-990 - ...-991	1B-840
1000-25 - ...-28	1B-820	1000-990 - ...-991	1B-860
1000-25 - ...-28	1C-120	1000-5046	1B-160
1000-25 - ...-28	1C-130	1000-5046	1C-160
1000-25 - ...-28	3YA-820	1000-5046	3YA-820
1000-25 - ...-28	3YB-440	1000-5119	1B-160
1000-27 - ...-28	1B-340	1000-5119	1C-160
1000-33 - ...-39	1C-620	1000-5119	3YA-820
1000-33 - ...-39	3ZB-120	1000-5161	1B-160
1000-48 - ...-49	1C-180	1000-5161	1C-160
1000-50	1B-340	1000-5161	3YA-820
1000-50 - ...-56	1B-820	1000-5164	1B-160
1000-50 - ...-56	1C-120	1000-5164	1C-160
1000-50 - ...-56	1C-130	1000-5164	3YA-820
1000-50 - ...-56	3YA-820	1000-U1 - ...-U7	1B-140
1000-50 - ...-56	3YB-440	1000-U9 - ...-U11	1B-560
1000-59	2A-120	1000-U12	1C-180
1000-61	1C-160	1000-U13	1B-140
1000-64	2A-120	1000-U14 - ...-U16	1B-580
1000-91	1C-160	1000-U17	1B-140
1000-93	1C-160	1000-U20	1B-140
1000-94	1C-380	1000-U21 - ...-U44	1C-120
1000-97-01	1C-320	1000-U21 - ...-U44	1C-130
1000-111-JB	12E-140	1000-U26 - ...-U44	3YB-440
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1000-112 - ...-113	1B-820	1000-U46-D	1B-120
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1000-112 - ...-113	1C-130	1000-U49	3ZB-120
1000-114 - ...-115	3ZB-120	1000-U51	1B-140
1000-114 - ...-115	1C-620	1000-U54 - ...-U56	1B-140
1000-127	1B-240	1000-U57 - ...-U59	1B-580
1000-179 - ...-180	1C-140	1000-U60 - ...-U62	1B-560
1000-203	10A-520	1000-U63 - ...-U64	1C-120
1000-211-L	1C-620	1000-U63 - ...-U64	1C-130
1000-211-L	3ZB-120	1000-U65 - ...-U69	1B-140
1000-211-01 ...-17	1C-620	1000-U78	1B-140
1000-211-01 ...-17	3ZB-120	1000-U89 - ...-U95	1B-620
1000-221 - ...-230	1C-140	1000-U96	1B-140
1000-244	1B-240	1000-U98 - ...-U115	1B-580
1000-264 - ...-266	1C-380	1000-U116 - ...-U133	1B-560
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1000-U141	3ZB-120	1000-U434 - ...-U435	1B-620
1000-U142	1B-140	1000-U436 - ...-U439	1B-680
1000-U143B	1B-820	1000-U499 - ...-U500	1B-860
1000-U144-L	1C-620	1000-U501 - ...-U502	1B-620
1000-U144-L	3ZB-120	1000-U504 - ...-U507	1B-140
1000-U144-01 ...-17	1C-620	1000-U509 - ...-U510	1B-140
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1000-U155	1B-140	1000-U530 - ...-U534	1B-140
1000-U155-D	1B-120	1000-U530 - ...-U534	8A-220
1000-U155-G	1B-140	1000-U536 - ...-U537	1B-140
1000-U156	8A-220	1000-U536 - ...-U537	8A-220
1000-U157 - ...-U166	1B-240	1000-U538-L	1C-620
1000-U167	1C-120	1000-U538-L	3ZB-120
1000-U167	1C-130	1000-U538-01 ...-09	1C-620
1000-U167	3YB-440	1000-U538-01 ...-09	3ZB-120
1000-U168 - ...-U183	1B-140	1000-U539 - ...-U543	1B-240
1000-U183	8A-220	1000-U544 - ...-U545-38	3YB-420
1000-U184 - ...-U188-N	1B-140	1000-U544 - ...-U545-38	3YC-120
1000-U184 - ...-U188-N2	1B-120	1000-U544 - ...-U545-38	3YC-140
1000-U189	1B-620	1000-U546 - ...-U569	1B-560
1000-U194 - ...-U197	1B-140	1000-U570 - ...-U593	1B-580
1000-U196-N2	1B-120	1000-U594 - ...-U611	1B-560
1000-U198	1B-240	1000-U612 - ...-U629	1B-580
1000-U202-01	1B-320	1000-U630 - ...-U631	1B-140
1000-U204-01	1B-320	1000-U630 - ...-U631	8A-220
1000-U206-01	1B-320	1000-U632	3YB-420
1000-U208-01	1B-320	1000-U633 - ...-U650	1B-540
1000-U210 - ...-U218-01	1B-320	1000-U652-01	1B-320
1000-U219 - ...-U230	1B-140	1000-U653	1B-840
1000-U231 - ...-U234	1B-240	1000-U655-01	1B-320
1000-U235 - ...-U236-N	1C-180	1000-U656 - ...-U657	1B-620
1000-U237 - ...-U 242	1B-540	1000-U658	1B-580
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1000-U351 - ...-U352	1B-140	1000-U709	1B-160
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1000-U353 - ...-U371	1B-580	1000-U711	1B-160
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1000-U390 - ...-U394	1B-580	1000-U713-01	1B-320
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1000-U744 - ...-U745	1B-720
1000-U746 - ...-U747	1B-340
1000-U748 - ...-U750	1B-220
1000-U751 - ...-U752	1B-380
1000-U753 - ...-U754	1B-540
1000-U755	1B-220
1000-U757	1B-140
1000-U757-01	1B-140
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1000-U769	1B-140
1000-U769	1B-360
1000-U769	1B-760
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1000-U773 - ...-U775-01	1B-520
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1001-18	2B-180
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1001-65	2A-180
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1001-U21 - ...-U23	2A-180
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1001-U30 - ...-U31	2B-120
1001-U32 - ...-U33	2A-120
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1004-26	12B-120
1004-29	12B-120
1004-29-01	1B-360
1004-30 - ...-31	12B-120
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1004-34	1A-420
1004-34-01	1B-720
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Notes:

Manufacturing plants international



The EMKA Group: design, engineering, manufacturing

Headquarters: Velbert, Germany; other manufacturing plants Wuppertal, D • Bourré, Henriville, F • Gorzde, BIH

The various production processes are spread across EMKA's manufacturing centres in line with economic and logistic considerations. With 5 manufacturing plants, producing more than 18,000 modular components, the ability to address specific needs is unmatched.



The EMKA Group is present in more than 60 countries worldwide:

- 5 manufacturing bases
- 40 subsidiaries/agencies
- approx. 1,000 employees worldwide (2007)

Certifications

- DIN EN ISO 9001
- DIN EN ISO 14001
- VDA 6 Teil 1 (ILS Werk 3)

NEMA-tests and IP-rating tests in accredited testing laboratories. UL-listings for gaskets. Achievement of required VDE standards, national and international safety standards. Documented RoHS conformity.



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Manufacturing expertise



tool and mould making



picture top right: die casting technology

more than 30 CNC milling machines, lathes, and transfer machines



▲ 50 injection moulding machines



▲ more than 40 bending, punching, and stamping machines



▲ surface coating

The EMKA Group: manufacturing expertise

- Development engineering
- Tool and mould making
- Processing of all Thermoplastics
- Cutting technology
- Bending, punching, and stamping machines
- Die casting technology
- Seal technology (foam-in-place)
- Surface coating
- Aluminium window manufacturing
- Laboratories
- Assembly

EMKA - your local worldwide partner



- EMKA Manufacturing plants
- EMKA Subsidiaries
- EMKA Agencies

EMKA Group



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