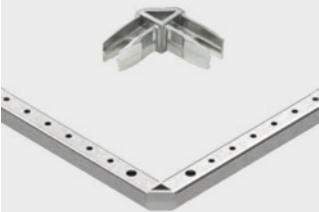


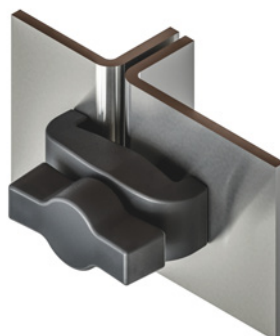
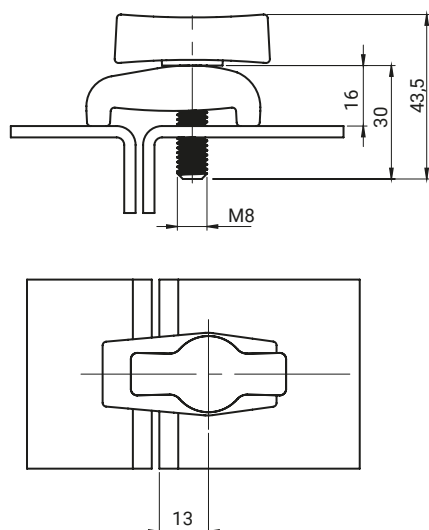
Handles



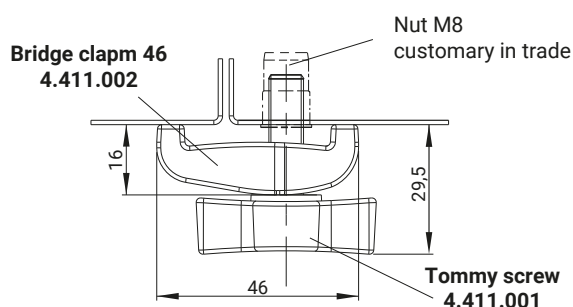
5

Accessories

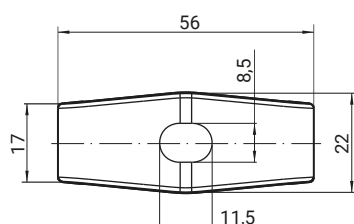
5



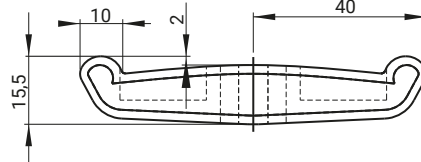
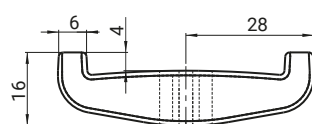
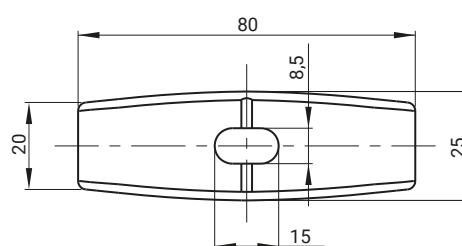
CATALOGUE NO.	NAME	MATERIAL
4.411.001	Tommy screw	Polyamide-PA6 GF30 RAL/Steel zinc plated



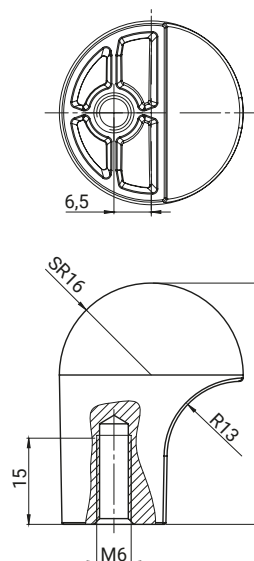
Bridge clamp 56
4.411.003



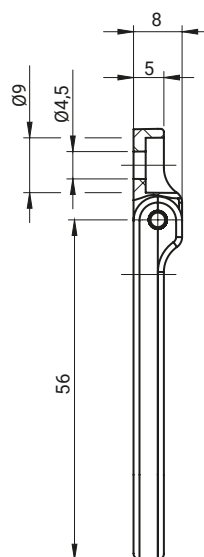
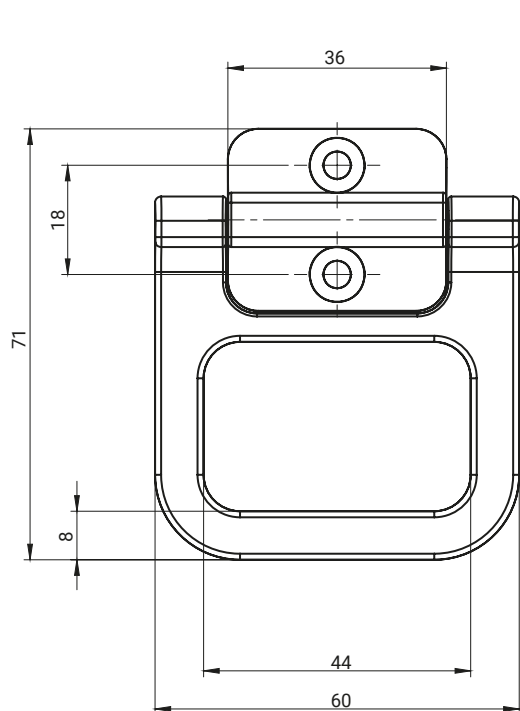
Bridge clamp 80
4.411.004



CATALOGUE NO.	NAME	MATERIAL
4.411.002	Bridge clamp 46	Polyamide PA6 Gf30
4.411.003	Bridge clamp 56	
4.411.004	Bridge clamp 80	



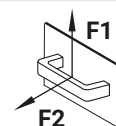
CATALOGUE NO.	DETAL	MATERIAL	FINISH [C]	
4.250.001	Handle	ZAMAK 5	Chrome	01
			Brass	12
			No coating	0



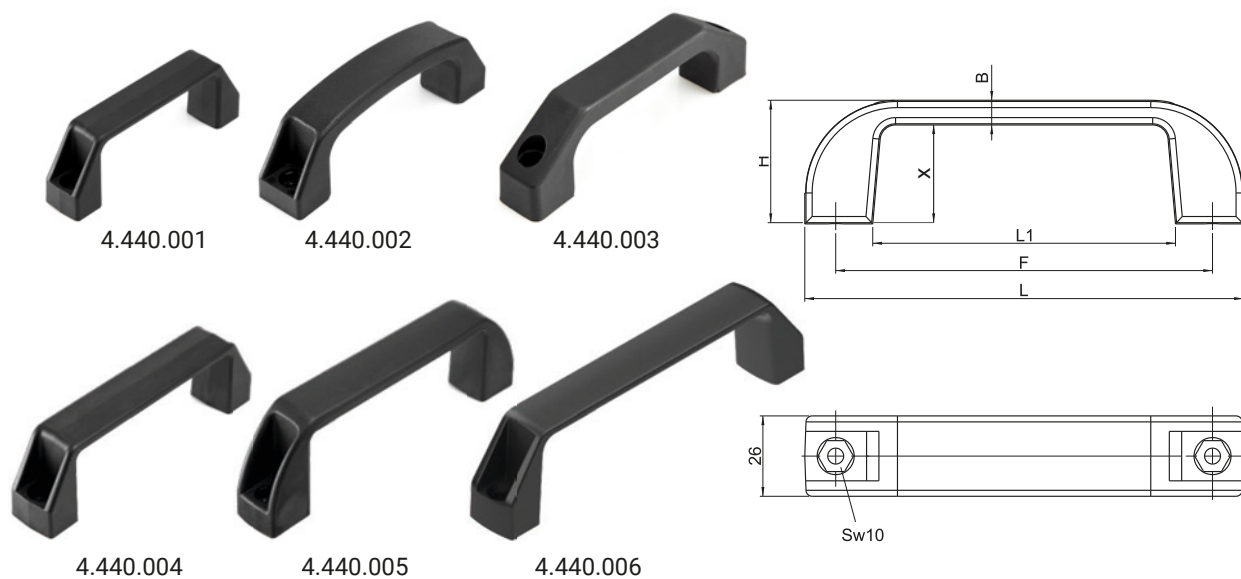
CATALOGUE NO.	COMPONENTS	MATERIAL	FINISH [C]
4.444.005	Holder, Base	Polyamide	RAL 9005
	Pin	Steel zinc plated	07
			-

CATALOGUE NO.	F1max, N	F2max, N	F1, N	F2, N
4.444.005	1250	1070	540	560

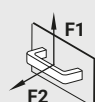
F1max, F2max - Forces at which the grips fail
F1, F2 - Forces at which handles begin to deform plastically



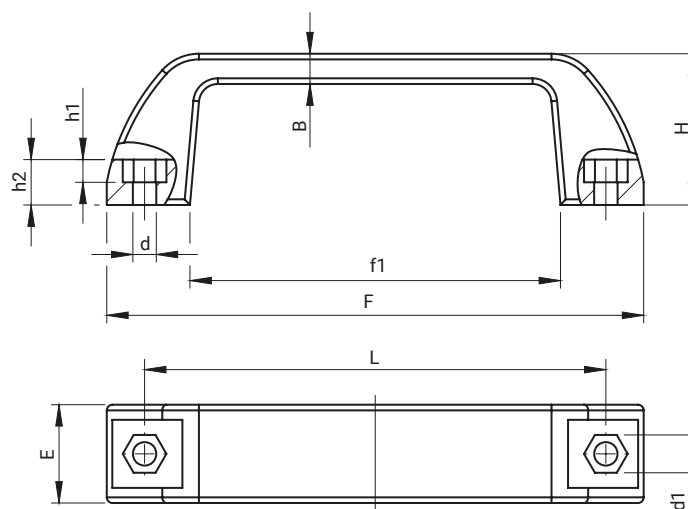
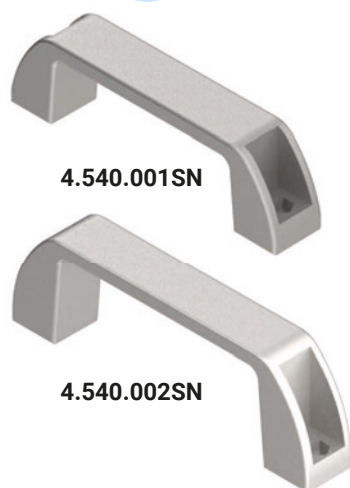
Handle 4.440, 4.540SN



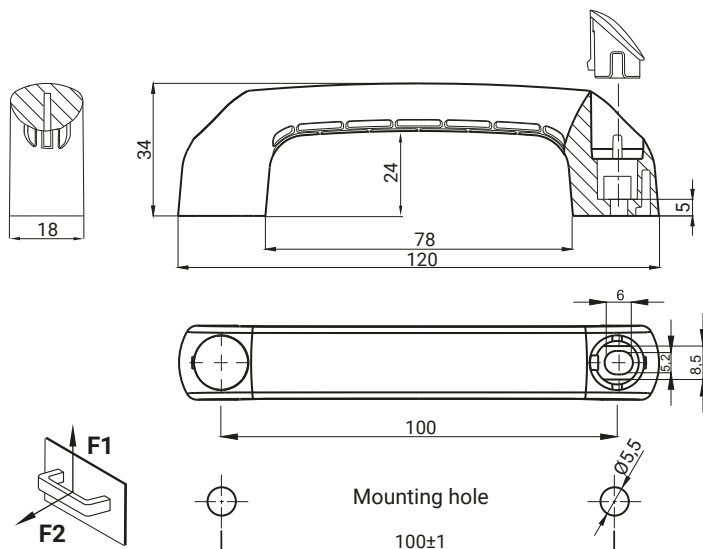
CATALOGUE NO.	DIMENSION						MATERIAL	FINISH [C]
	L	F	L1	H	B	X		RAL 9005
4.440.001	109	94	74,5	38	5,2	33	Polyamide GF30	07
4.440.002	134	113,5	88	45	10,5	34,5		
4.440.003	143	121	93	43,5	15	28,5		
4.440.004	150	132,5	109	44	6,5	37,5		
4.440.005	170	150,5	118	54	9	45		
4.440.006	196	179	152,5	49	7	42		

CATALOGUE NO.	F1max, N	F2max, N	F1, N	F2, N	NOTE
4.440.001	1400	3150	400	4550	F1max, F2max - Forces at which the grips fail F1, F2 - Forces at which handles begin to deform plastically 
4.440.002	4300	9250	3100	4100	
4.440.003	4200	4900	3000	2050	
4.440.004	2090	2000	1550	1600	
4.440.005	3300	4200	1300	1900	
4.440.006	2300	1600	1500	1300	

NEW



CATALOGUE NO.	L	F	f1	H	h1	h2	d	d1	E	B	MATERIAL
4.540.001SN	122	142	98	40	12	6	6,2	10	26	8	Stainless steel (AISI 316)
4.540.002SN	152	167	118	53,5							



Note: handle colors on request

Handle PA 4.444.001



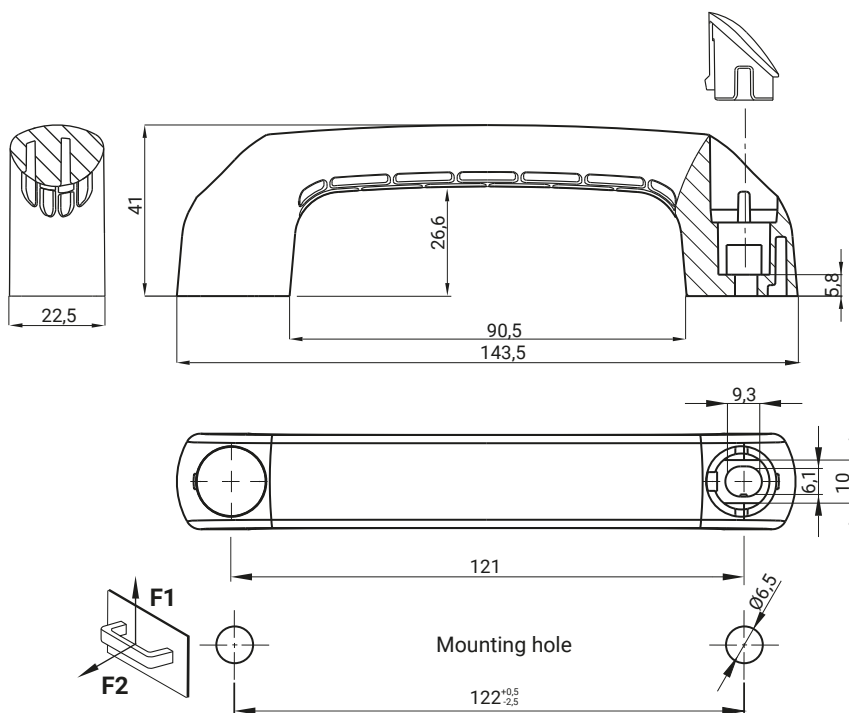
PLUG COLORS [C]

01	black
02	blue
03	red
04	green
05	yellow
06	grey

CATALOGUE NO.	MATERIAL	LOAD CAPACITY
4.444.001	Polyamide PA6 GF30 RAL 9005	54 kg

CATALOGUE NO.	F1max, N	F2max, N	F1, N	F2, N
4.444.001	1600	4000	1000	1300

F1max, F2max - Forces at which the grips fail
F1, F2 - Forces at which handles begin to deform plastically



Note: handle colors on request

Handle PA 4.444.002



PLUG COLORS [C]

01	black
02	blue
03	red
04	green
05	yellow
06	grey

Construction design allows to mount the handle into the holes with a spacing of 120mm

CATALOGUE NO.	MATERIAL	LOAD CAPACITY
4.444.002	Polyamide PA6 GF30 RAL 9005	54 kg

CATALOGUE NO.	F1max, N	F2max, N	F1, N	F2, N
4.444.002	4300	9250	3100	4100

F1max, F2max - Forces at which the grips fail
F1, F2 - Forces at which handles begin to deform plastically

How to order:

Catalogue number

Plug color

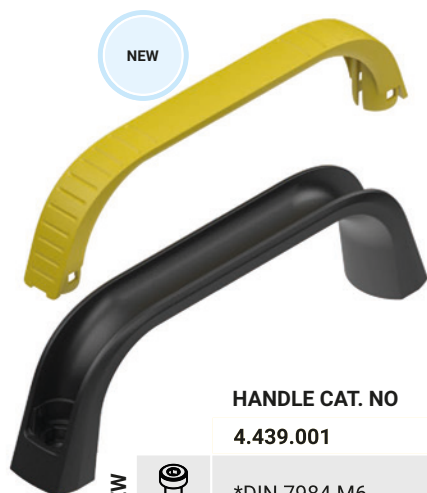
4.444.001

C

Mounting screws

	4.444.001 M5	4.444.002 M6
	DIN 933	
	DIN 7984	
	DIN 965	
	DIN 84	

Handle 4.439, 4.449



NEW

HANDLE CAT. NO
4.439.001

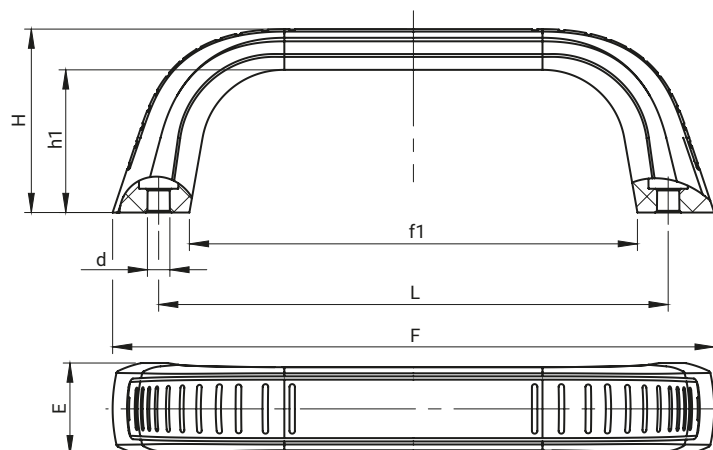
MOUNTING SCREW



*DIN 7984 M6

*DIN 912 M6

*DIN 933 M6



FORCE DIRECTION	DESTRUCTIVE FORCE F_{max}	MAX. WORKING LOAD [N]
Force F_1 	2260	750
Force F_2 	7380	2810

* not included in the scope of delivery

F1max, F2max - Forces at which the grips fail
F1, F2 - Forces at which handles begin to deform plastically

CATALOGUE NO.	L	F	f1	H	h1	d	E	COMPONENTS	MATERIAL
4.439.001	150	177	132	54	42	6,5	27	Handle	Polyamide PA6 GF30 RAL 9005

Note: handle colors on request

How to order:

Catalogue number

Plug color

4.439.001

C



PLUG COLORS [C]

01	black
02	blue
03	red
04	green
05	yellow
06	grey



NEW

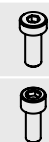
HANDLE CAT. NO

4.449.001

HANDLE CAT. NO

4.449.002

MOUNTING SCREW

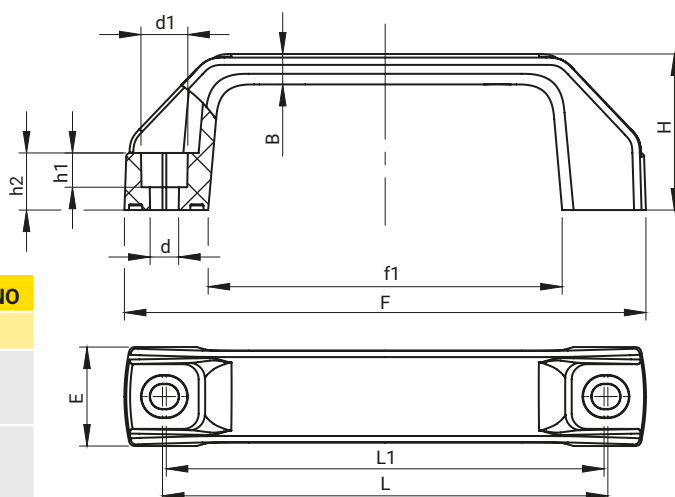


*DIN 7984 M6

*DIN 912 M6

*DIN 7984 M8

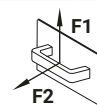
*DIN 912 M8

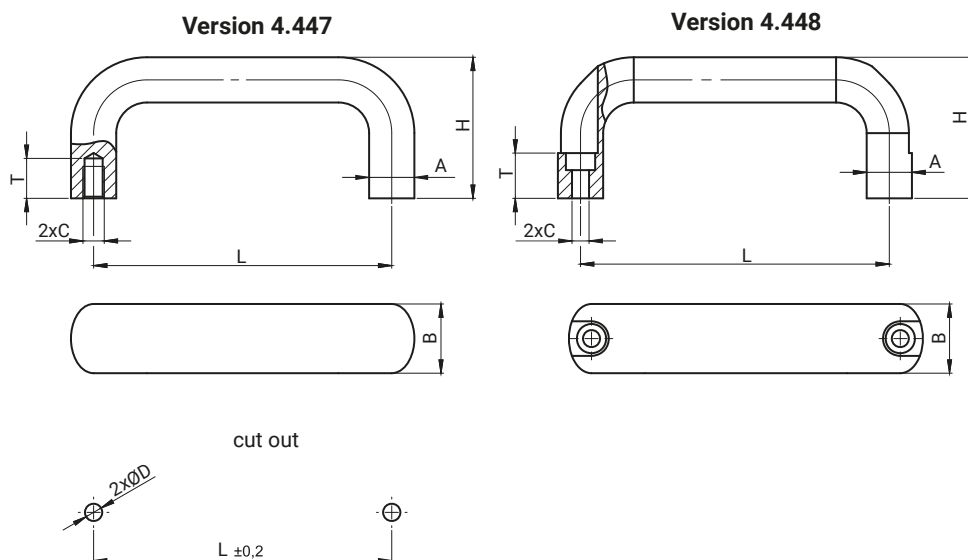


* not included in the scope of delivery

CATALOGUE NO.	L	L1	F	f1	H	h1	h2	d	d1	E	B	MATERIAL	FINISH [C]
4.449.001	117	115	134	90	42	8,5	15	7,5	12	26	7,5	PA6 GF30	RAL 9005
4.449.002	113	115	135	91	42	8,5	15	9,5	15	26	7,5	PA6 GF30	07

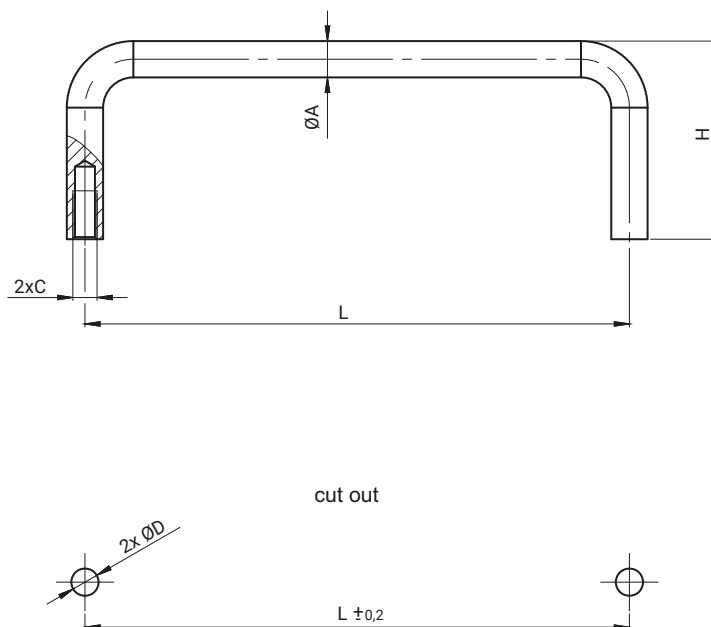
CATALOGUE NO.	F1max, N	F2max, N	F1, N	F2, N
4.449.001	2500	5420	620	2710
4.449.002	4360	8200	1220	3500

F1max, F2max - Forces at which the grips fail
F1, F2 - Forces at which handles begin to deform plastically


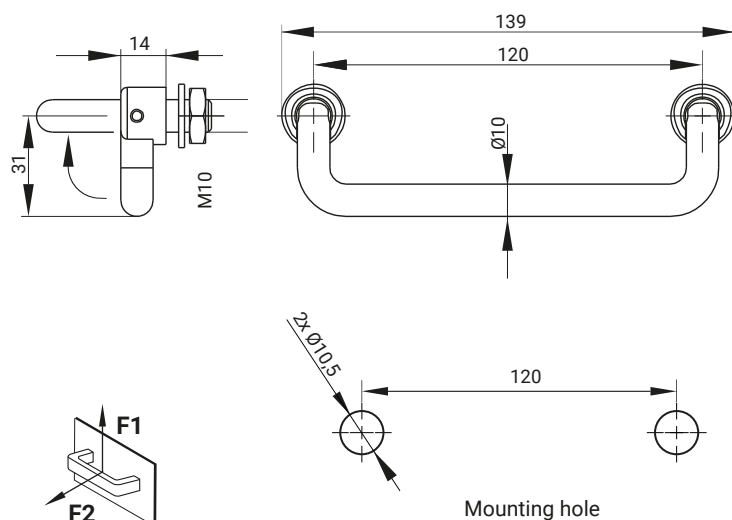


CATALOGUE NO.	DIMENSIONS							MATERIAL	FINISH
	L	H	A	B	T	C	D		
VERSION 4.447									
4.447.001	100	47	13	20	10	M6	6,6	Aluminum	Natural
4.447.002	112	49							
4.447.003	128	51							
4.447.004	160	51	17	26	12	M8	9		
4.447.005	112	53							
4.447.006	128	55							
4.447.007	160	57							
4.447.008	192	57							
4.447.009	300	57							
4.447.010	400	57							
4.447.101	100	47	13	20	10	M6	6,6		
4.447.102	112	49							
4.447.103	128	51							
4.447.104	160	51	17	26	12	M8	9		
4.447.105	112	53							
4.447.106	128	55							
4.447.107	160	57							
4.447.108	192	57							
4.447.109	300	57							
4.447.110	400	57							
4.447.301	100	50	13	20	10	M6	6,6		
4.447.302	112								
4.447.303	112							55	
4.447.304	128							50	
4.447.305	128							55	
4.447.306	160							50	
4.447.307	160								
4.447.308	192	55	17	26	12	M8	9		
4.447.309	300								
4.447.310	400								
4.447.002 SN	112	49	13	20	10	M6	6,6	Stainless steel	Natural
4.447.003 SN	128	51							
VERSION 4.448									
4.448.001	116	53	17	26	17	ø6,4	6,6	Aluminum	Natural
4.448.002	132	55							
4.448.003	164	57							
4.448.004	196	57							
4.448.101	116	53							black plastic coating
4.448.102	132	55							
4.448.103	164	57							
4.448.104	196	57							

Handle 4.446



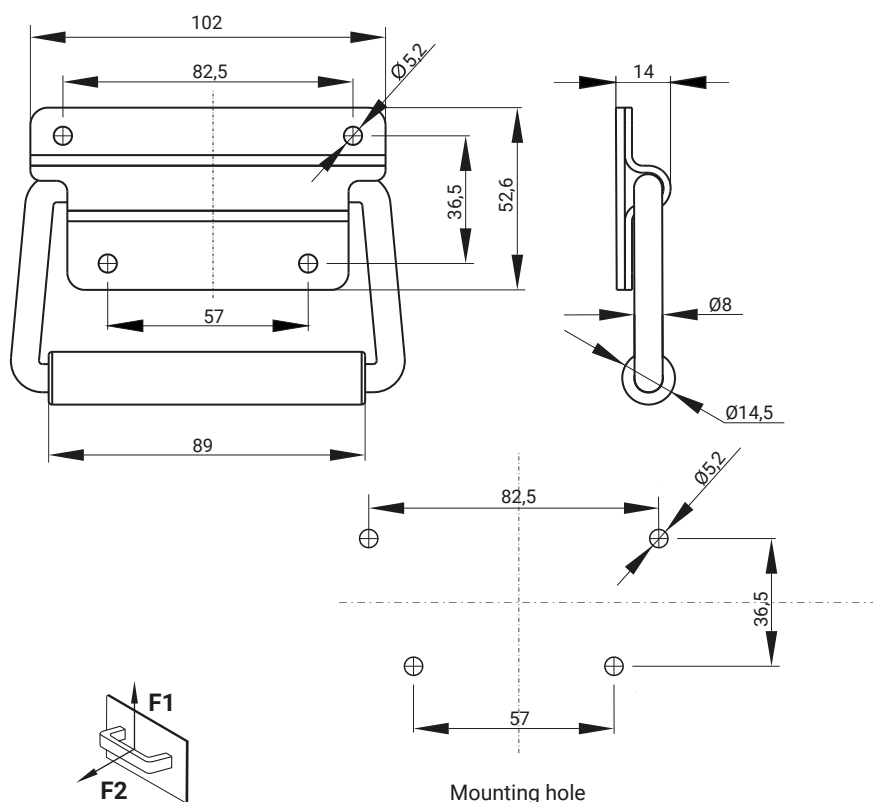
CATALOGUE NO.		DIMENSIONS				
Chrome plated steel	Stainless steel	L	A	H	C	D
4.446.001	4.446.001SN	70	6	32	M4	4,5
4.446.002	4.446.002SN	90	6	32	M4	4,5
4.446.003	4.446.003SN	102	6	32	M4	4,5
4.446.004	4.446.004SN	122	6	32	M4	4,5
4.446.005	4.446.005SN	138	6	32	M4	4,5
4.446.006	4.446.006SN	75	8	40	M5	6
4.446.007	4.446.007SN	100	8	32	M5	6
4.446.008	4.446.008SN	150	8	40	M5	6
4.446.009	4.446.009SN	90	9	32	M5	6
4.446.010	4.446.010SN	119	9	40	M5	6
4.446.011	4.446.011SN	135	9	32	M5	6
4.446.012	4.446.012SN	149	9	40	M5	6
4.446.013	4.446.013SN	155	9	32	M5	6
4.446.014	4.446.014SN	160	9	40	M5	6



CATALOGUE NO.	COMPONENTS	MATERIAL
4.444.003	Holder, Base	Stainless steel

CATALOGUE NO.	F1max, N	F2max, N	F1, N	F2, N
4.444.003	8000	16500	3500	7750

F1max, F2max - Forces at which the grips fail
F1, F2 - Forces at which handles begin to deform plastically



CATALOGUE NO.	COMPONENTS	MATERIAL
4.444.004	Holder, Base, Spring	Steel zinc plated

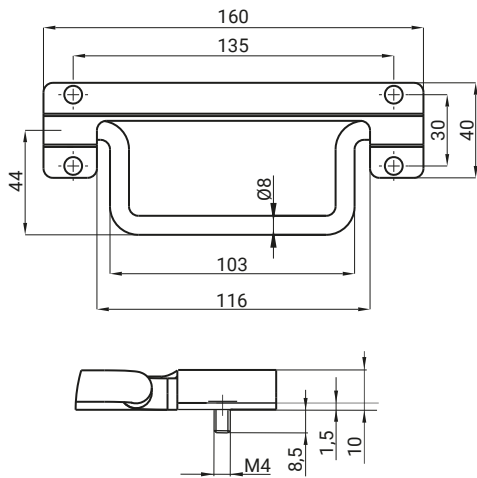
CATALOGUE NO.	F1max, N	F2max, N	F1, N	F2, N
4.444.004	2000	16510	420	5060

F1max, F2max - Forces at which the grips fail
F1, F2 - Forces at which handles begin to deform plastically

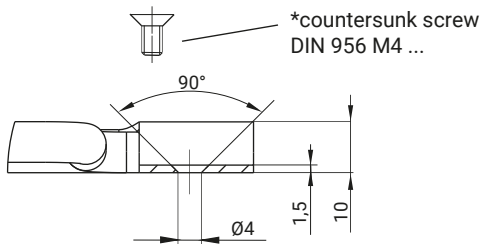
Metal handle 4.442

Drawer handle 4.443

Metal handle 4.442



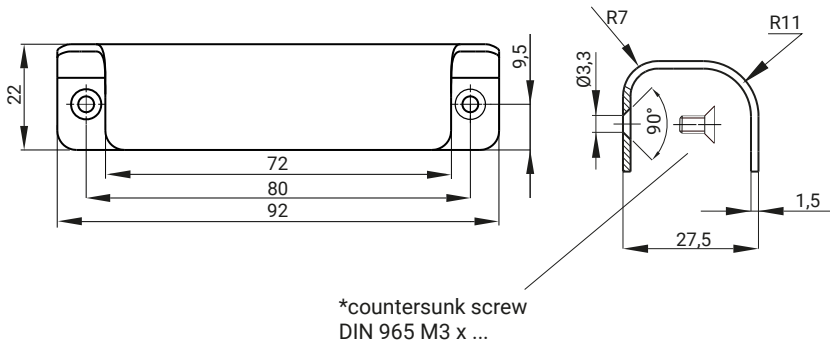
CATALOGUE NO.	COMPONENTS	MATERIAL
4.442.001	Holder, Base	Stainless steel
4.442.003	Holder, Base	Steel zinc plated



* not included in the handle

CATALOGUE NO.	COMPONENTS	MATERIAL
4.442.002	Holder, Base	Stainless steel
4.442.004	Holder, Base	Steel zinc plated

Drawer handle 4.443



* not included in the handle

CATALOGUE NO.	COMPONENTS	MATERIAL	FINISH [C]	
			RAL 9005	RAL 7035
4.443.001	Holder	Steel zinc plated	04	05
4.443.002	Holder	Stainless steel	-	-

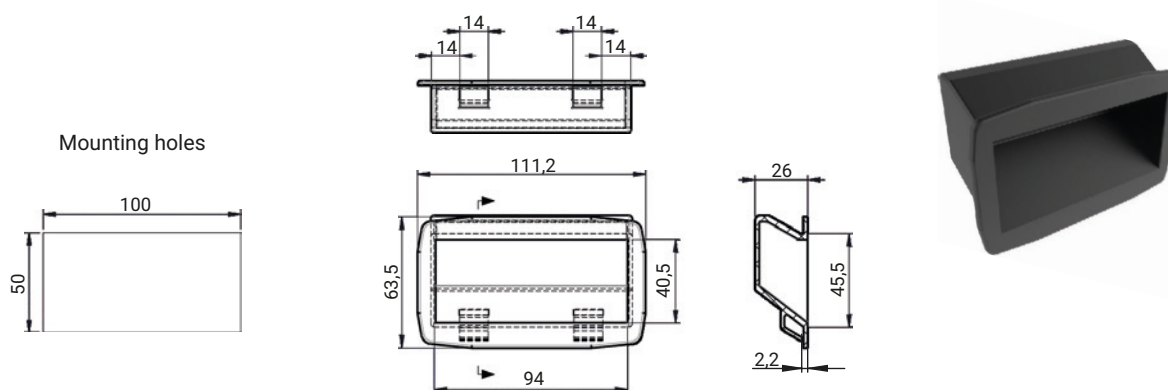
How to order:

Catalogue number

Finish

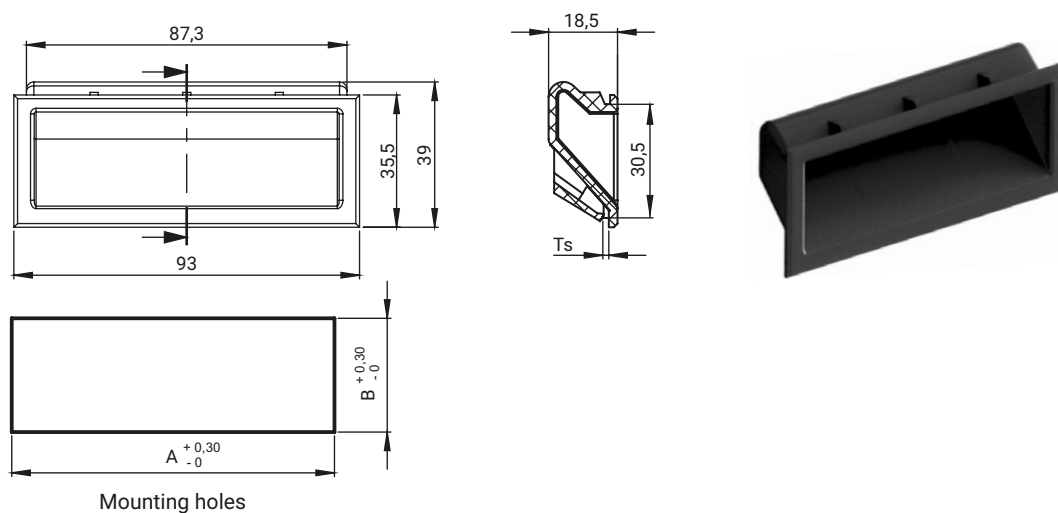
4.443.001

C



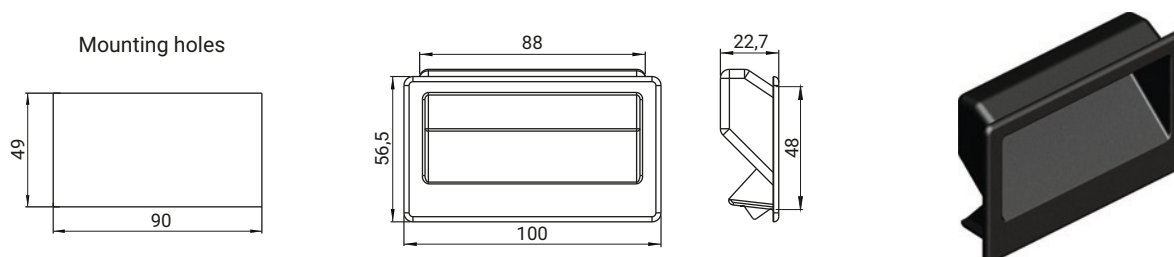
Ts - Thickness of metal sheet

CATALOGUE NO.	MATERIAL	Ts	FINISH [C]
			RAL 9005
4.102.001	Polyamide PA6	1,2 - 1,6	07
4.102.003	Polyamide PA6	0,8 - 1,2	



Ts - Thickness of metal sheet

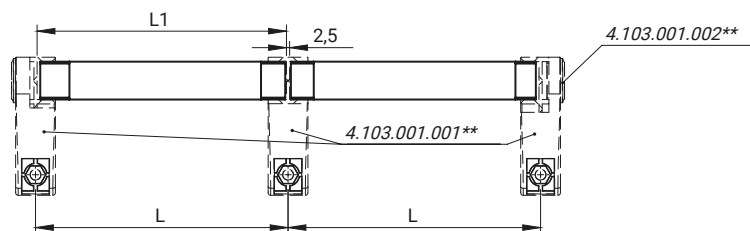
CATALOGUE NO.	Version	Ts	A	B	MATERIAL	FINISH [C]
						RAL 9005
4.102.002	A	1,2-1,6	87,5	30,7	Polyamide PA6 GF30	07
	B	1,75-2,2	87,5	30,7	Polyamide PA6 GF30	



Ts - Thickness of metal sheet

CATALOGUE NO.	MATERIAL	Ts	FINISH [C]
			RAL 9005
4.470.001	Polyamide PA6	1,0 - 2,5	07

Handle 4.103, 4.441



* It is possible to order the tube profile in another dimension.

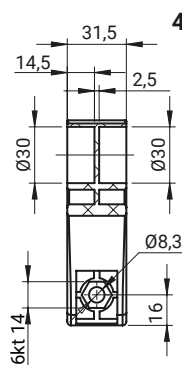
** Grip and cap (4.103.001.001, 4.103.001.002) of the profile ordered separately.

CATALOGUE NO.	L	L1	COMPONENTS	MATERIAL	FINISH [C]	
					NO COATING	RAL 9005
4.103.05	200	197,5	Tubular profile	Aluminium	00	04
4.103.06	300	297,5				
4.103.07	400	397,5				
4.103.08	500	497,5				

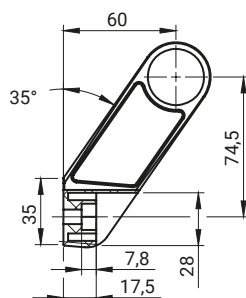
How to order:

Cat. number

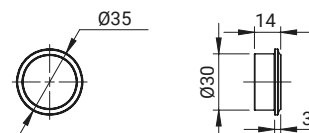
Finish [C]



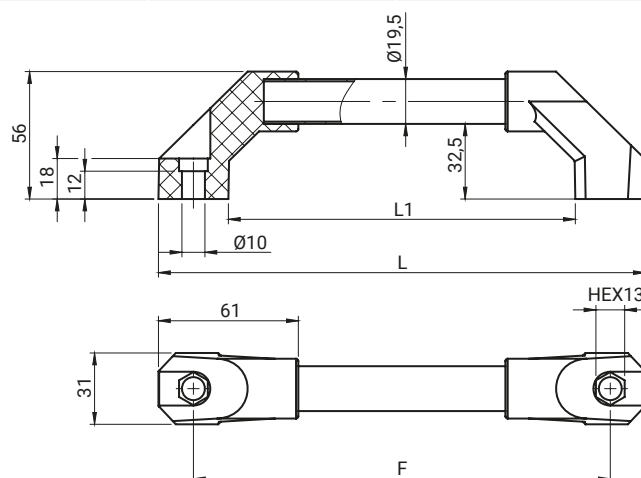
4.103.001.001



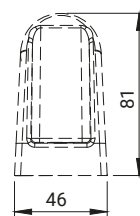
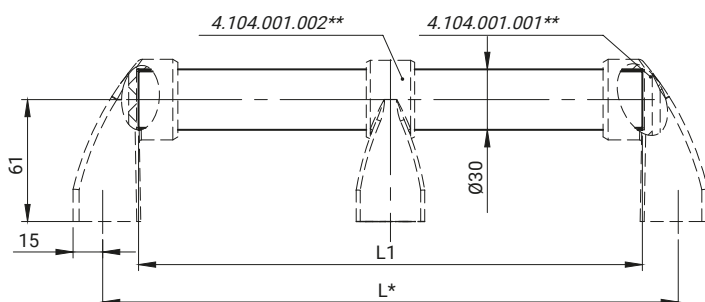
4.103.001.002



CATALOGUE NO.	COMPONENTS	MATERIAL	FINISH [C]
			RAL 9005
4.103.001.001	Handle	Polyamide PA6	07
4.103.001.002	Blinder cap		



CATALOGUE NO.	DIMENSION			MATERIAL	HOLDER FINISH [C]
	F	L	L1		RAL 9005
4.441.001	200	233	172	Holder - Polyamide	07
4.441.002	300	324	254		
4.441.003	400	424	354	Handle - Aluminum	
4.441.004	500	524	454		



* Tubular profile can be ordered in other dimensions.

** holder (4.104.001.001, 4.104.001.002) of the profile ordered separately.

CATALOGUE NO.	L	L1	COMPONENTS	MATERIAL	FINISH [C]	
					NO COATING	RAL 9005
4.104.001.200	200	166,5	Tubular profile	Aluminium	00	04
4.104.001.300	300	266,5				
4.104.001.400	400	366,5				
4.104.001.500	500	466,5				

How to order:

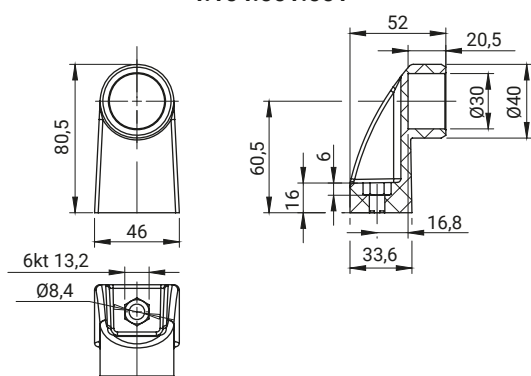
Catalogue number

Finish [C]

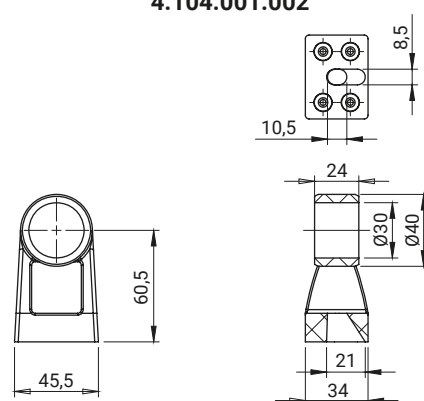
4.104.001.300

04

4.104.001.001



4.104.001.002



4.104.001



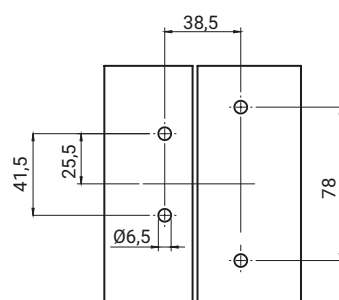
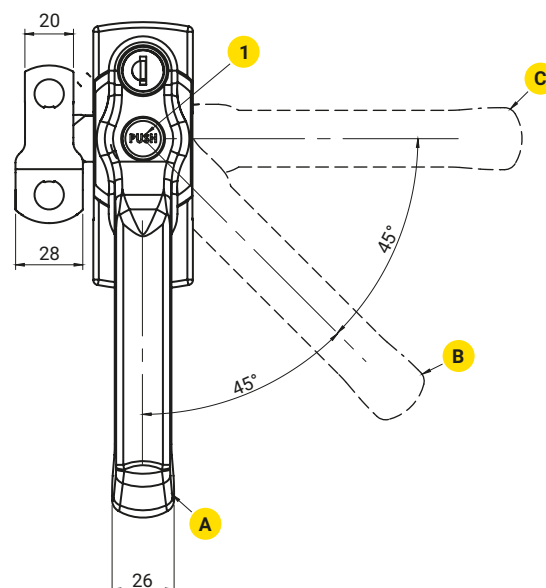
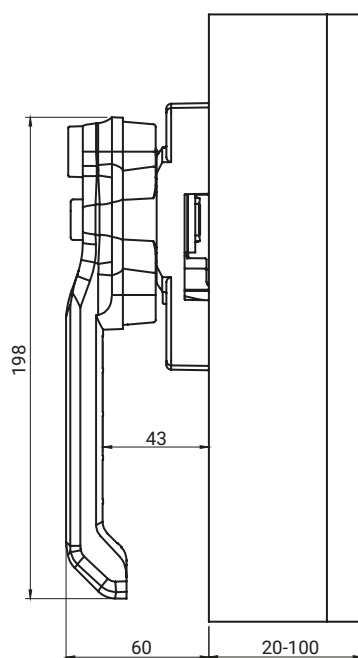
4.104.002

CATALOGUE NO.	COMPONENTS	MATERIAL	FINISH [C]
			RAL 9005
4.104.001.001	External holder	PA6 GF30	07
4.104.001.002	Through-hole holder		

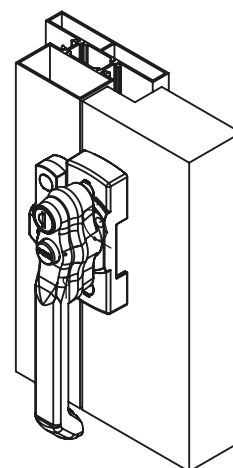
Lock with decompression function 4.120 RST Roztocze®

LOCKING SOLUTIONS

NEW



Spacing of holes



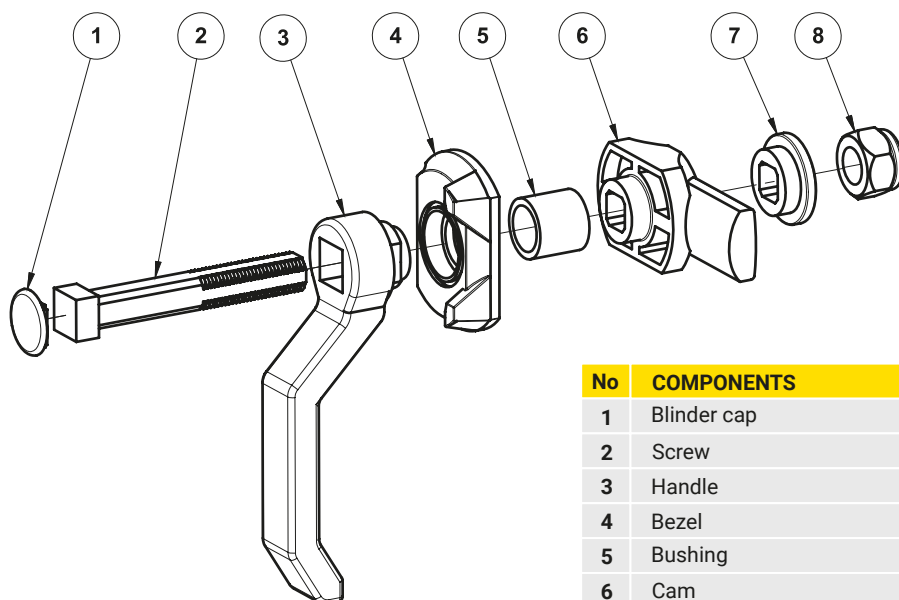
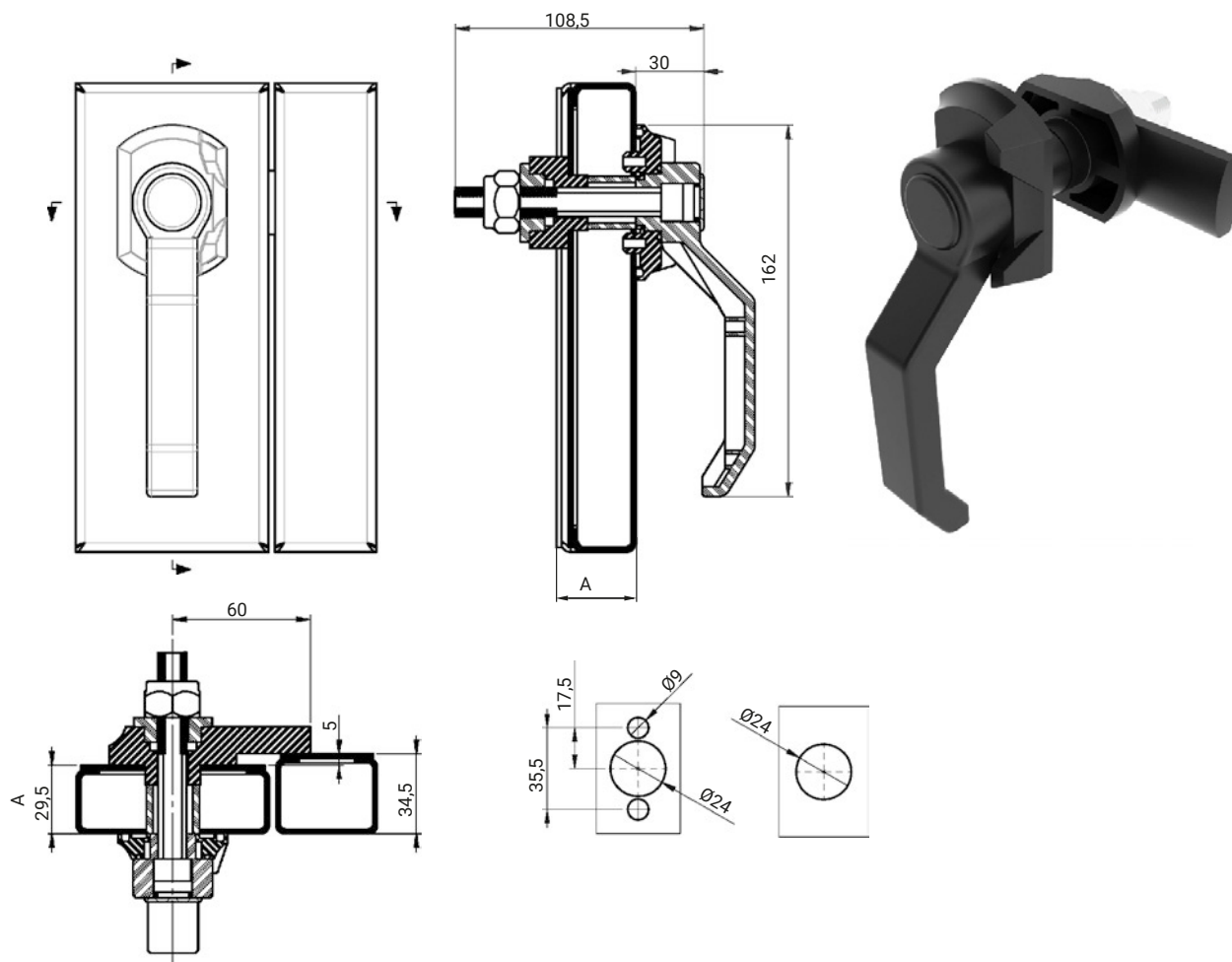
- A** Locked position
- B** Decompression - lock is closed, but pressure is removed
- C** Open position - press button 1 to open

Specification::

- Locks 4.120.001 and 4.120.002 with a leakage function - protection of the cabinet user against uncontrolled opening of the door due to overpressure in the climate control panel. It allows for pressure compensation before opening the door. Locks 4.120.003 and 4.120.004 (without a button) do not have a leakage function before opening the lock..
- Resistance of the lock to pressure of 5000 N/mm².
- The lock can be mounted on doors with a thickness of 20-100 mm.

CATALOGUE NO.	VERSION		COMPONENTS	MATERIALS	FINISH
					RAL 9005
4.120.001	lockable*	with push button	Handle	PA6GF30	07
4.120.002	not lockable	with push button	Base	ZAMAK 5	04
4.120.003	lockable*	without push button	Catch	ZAMAK 5	04
4.120.004	not lockable	without push button	Cam	Steel zinc plated	-

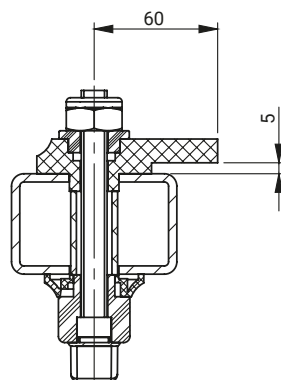
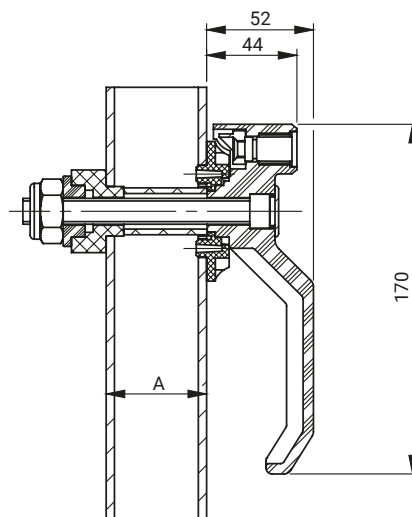
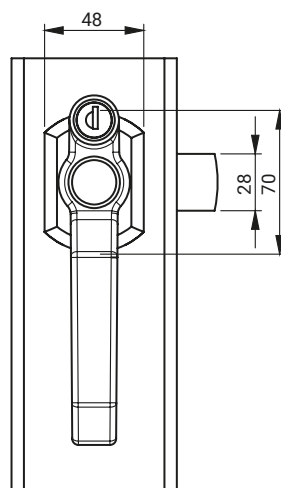
* possibility to use different key codes



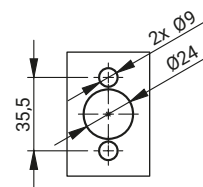
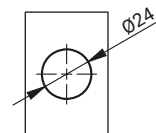
No	COMPONENTS	MATERIAL
1	Blinder cap	Polyamide P6GF30
2	Screw	ZAMAK 5
3	Handle	Polyamide P6GF30
4	Bezel	
5	Bushing	
6	Cam	
7	Washer	Steel zinc plated
8	Nut	

A Thickness door	180° Sign	90° turn Right	90° turn Left	FINISH [C]
				RAL 9005
30 mm	4.105.001	4.105.004	4.105.007	07
50 mm	4.105.002	4.105.005	4.105.008	
70 mm	4.105.003	4.105.006	4.105.009	

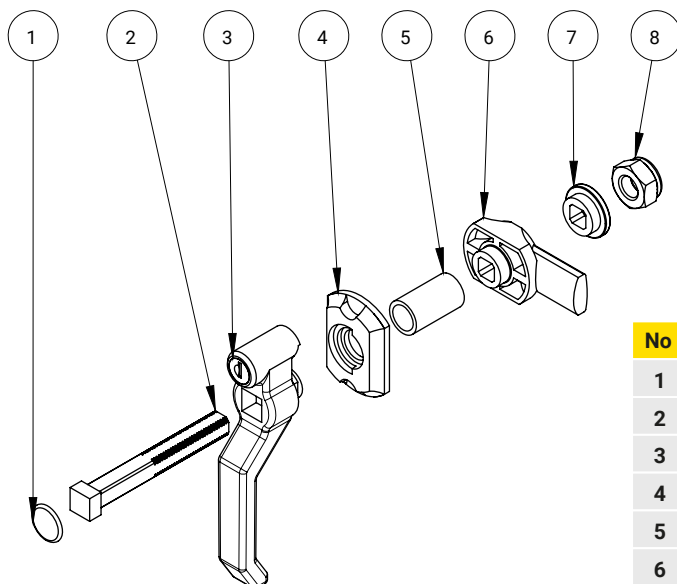
Left and right version on request. Delivery time 4-6 weeks.



Mounting holes

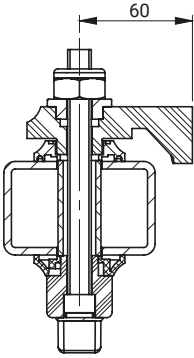
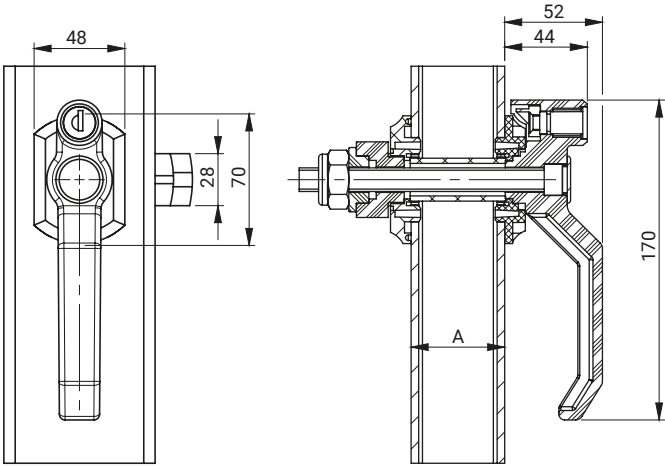
Outside
(handle side)

Inside

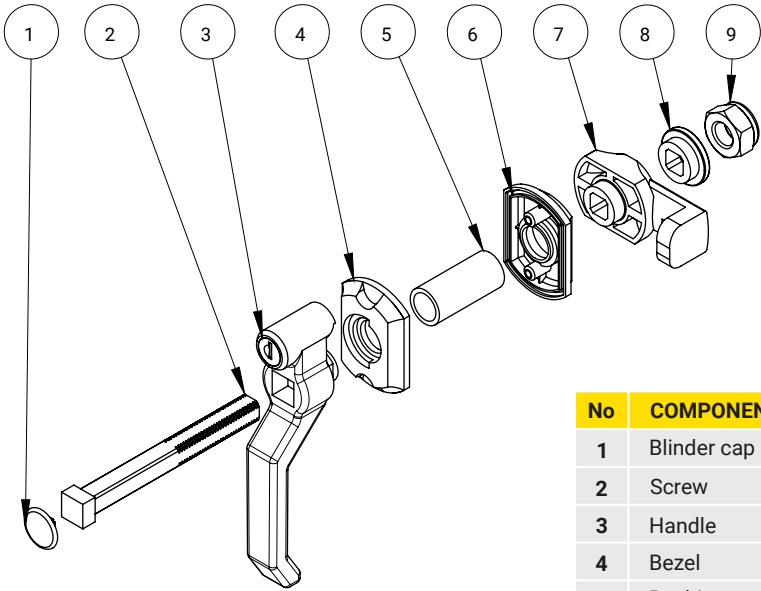
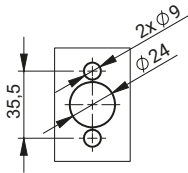


No	COMPONENTS	MATERIAL
1	Blinder cap	Polyamide P6GF30
2	Screw	ZAMAK 5
3	Handle	Polyamide P6GF30
4	Bezel	
5	Bushing	
6	Cam	
7	Washer	Steel zinc plated
8	Nut	

CATALOGUE NO.	MAX. DOOR THICKNESS A [mm]	FINISH [C]
		RAL 9005
4.105.101	30	07
4.105.102	50	
4.105.103	70	



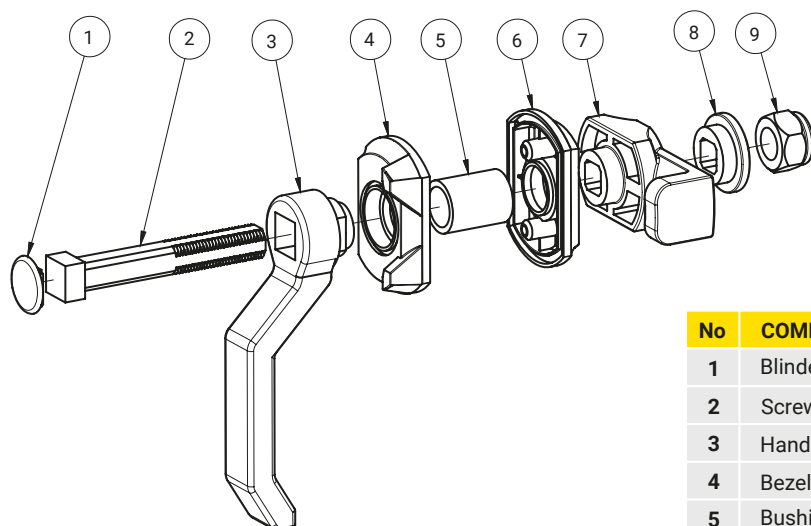
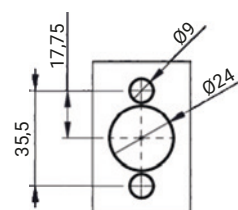
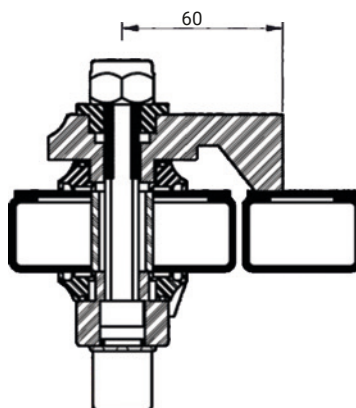
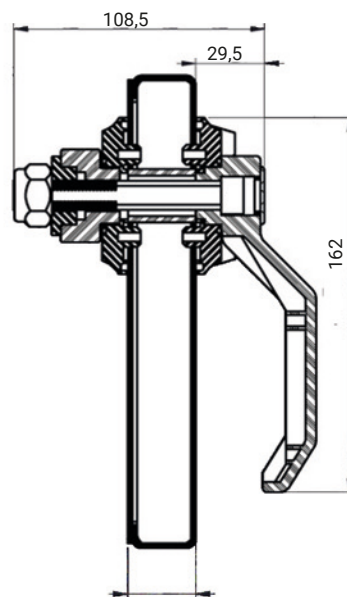
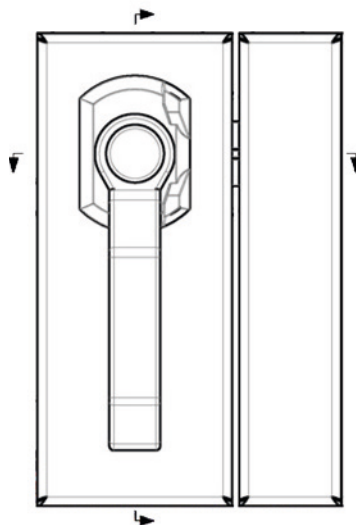
Mounting holes



No	COMPONENTS	MATERIAL
1	Blinder cap	Polyamide P6GF30
2	Screw	ZAMAK 5
3	Handle	Polyamide P6GF30
4	Bezel	
5	Bushing	
6	Cam	
7	Washer	Steel zinc plated
8	Nut	

CATALOGUE NO.	MAX. DOOR THICKNESS A [mm]	FINISH [C]
		RAL 9005
4.106.101	25	07
4.106.102	40	
4.106.103	50	

Heavy duty handle 4.106



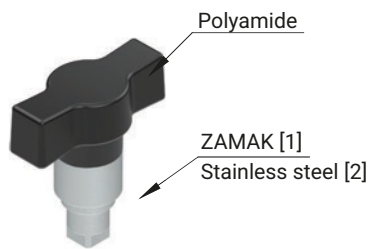
No	COMPONENTS	MATERIAL
1	Blinder cap	Polyamide P6GF30
2	Screw	Steel zinc plated
3	Handle	Polyamide P6GF30
4	Bezel	
5	Bushing	
6	Bezel	
7	Cam	
8	Washer	Steel zinc plated
9	Nut	

A - Thickness door	180° Sign	90° turn Right	90° turn Left	FINISH [C]
				RAL 9005
25 mm	4.106.001	4.106.004	4.106.007	07
40 mm	4.106.002	4.106.005	4.106.008	
50 mm	4.106.003	4.106.006	4.106.009	

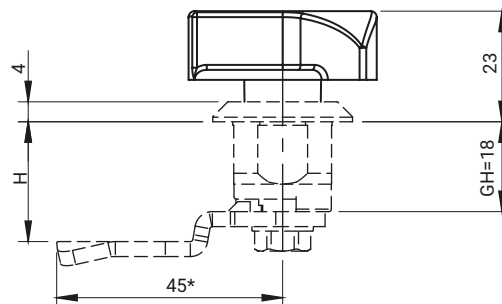
Left and right version on request. Delivery time 4-6 weeks.

Wing knobs type M

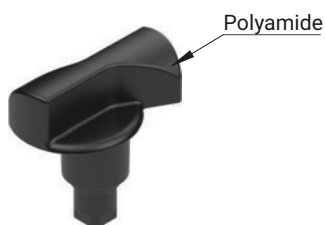
Type M11/M12



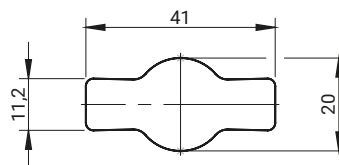
Butterfly knobs for M22-3 lock



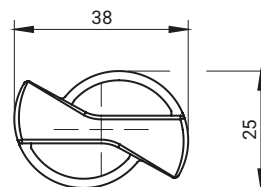
Type M2



Type M11/M12



Type M2



M11, M12, M2 butterfly knobs are compatible with M22-3 lock - page 2A-9

TYPE	Material		Knob finish [D]	
	Insert	Knob	RAL 9005	RAL 7035
M11	ZAMAK 5	Polyamide PA6	07	08
M12	Stainless steel	Polyamide PA6		
M2	Polyamide PA6	Polyamide PA6		