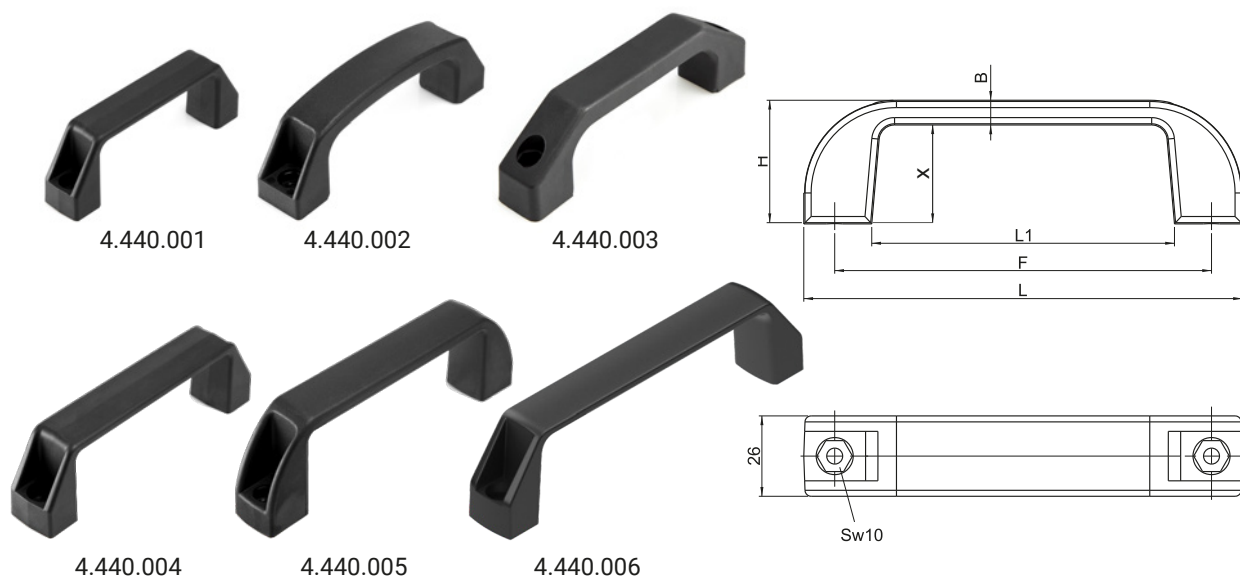


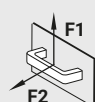


Main catalogue

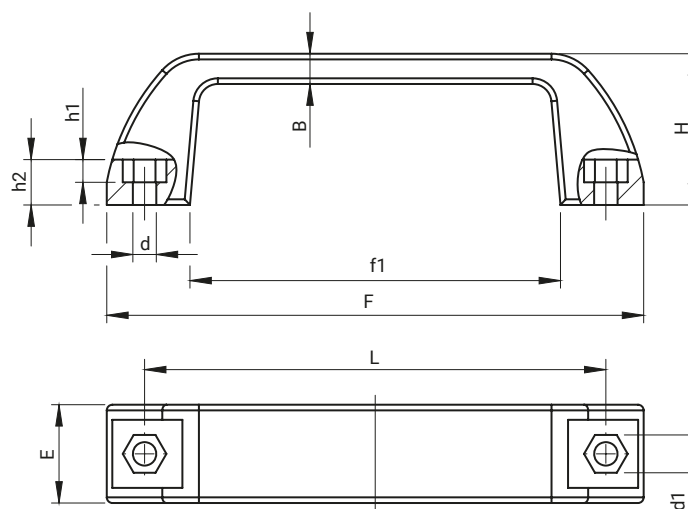
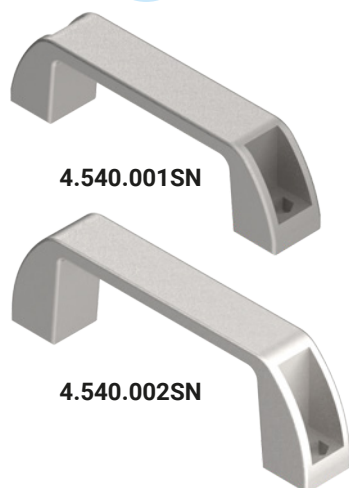
Handle 4.440, 4.540SN



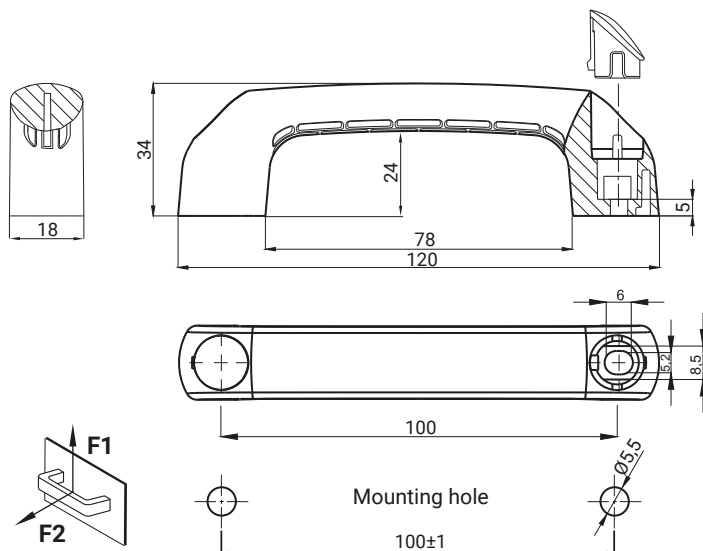
CATALOGUE NO.	DIMENSION						MATERIAL	FINISH [C]
	L	F	L1	H	B	X		RAL 9005
4.440.001	109	94	74,5	38	5,2	33	Polyamide GF30	07
4.440.002	134	113,5	88	45	10,5	34,5		
4.440.003	143	121	93	43,5	15	28,5		
4.440.004	150	132,5	109	44	6,5	37,5		
4.440.005	170	150,5	118	54	9	45		
4.440.006	196	179	152,5	49	7	42		

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



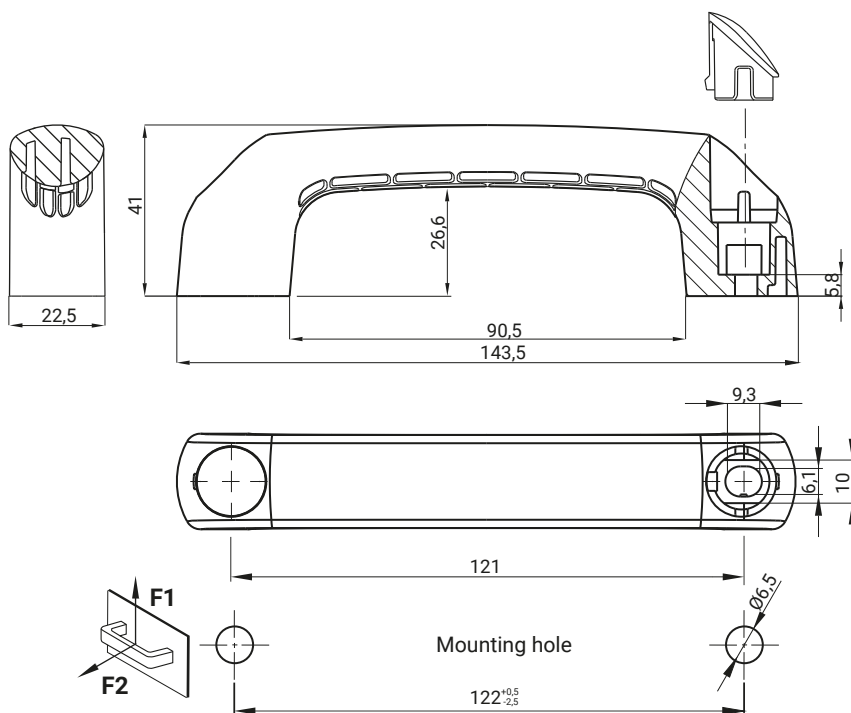
PLUG COLORS [C]

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

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



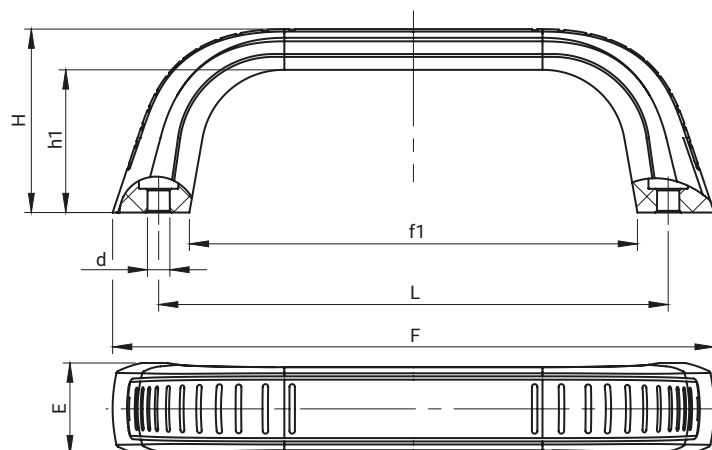
*DIN 7984 M6

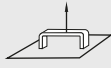


*DIN 912 M6



*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

$F1_{max}, F2_{max}$ - 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



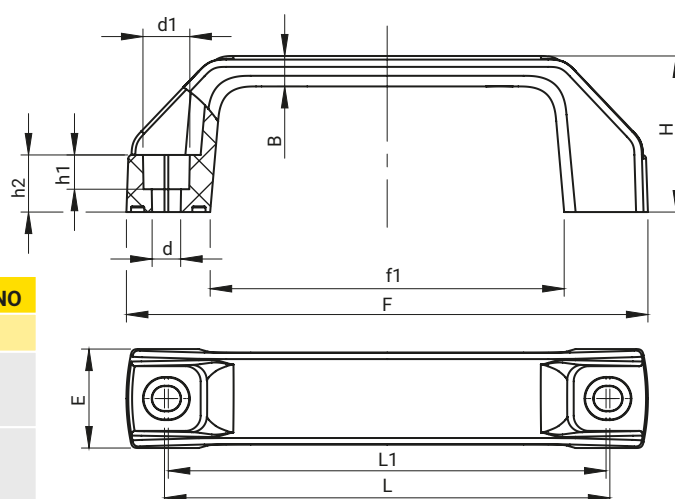
*DIN 912 M6



*DIN 7984 M8



*DIN 912 M8

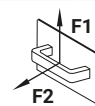


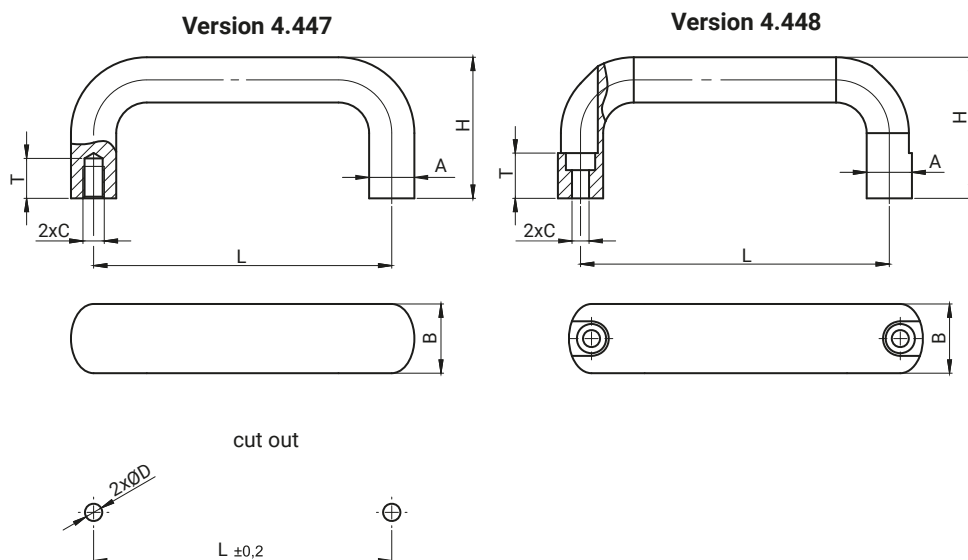
* not included in the scope of delivery

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	07
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

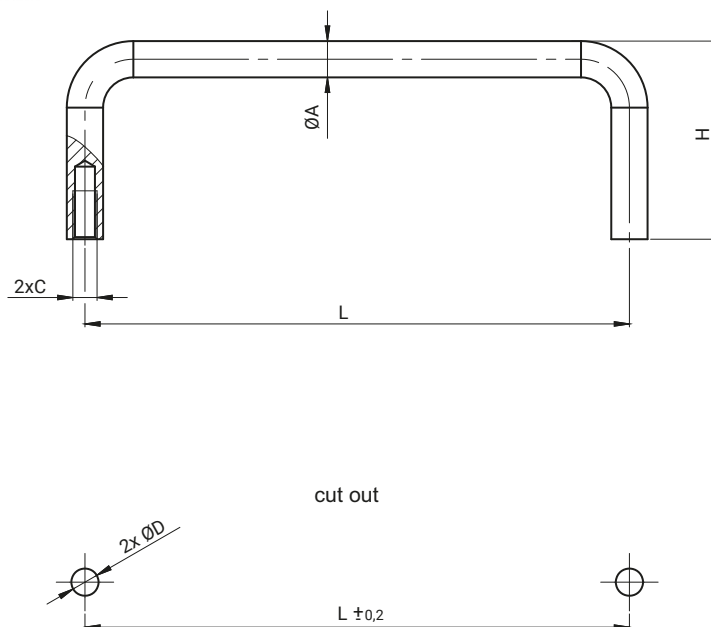
$F1_{max}, F2_{max}$ - Forces at which the grips fail
 $F1, F2$ - Forces at which handles begin to deform plastically



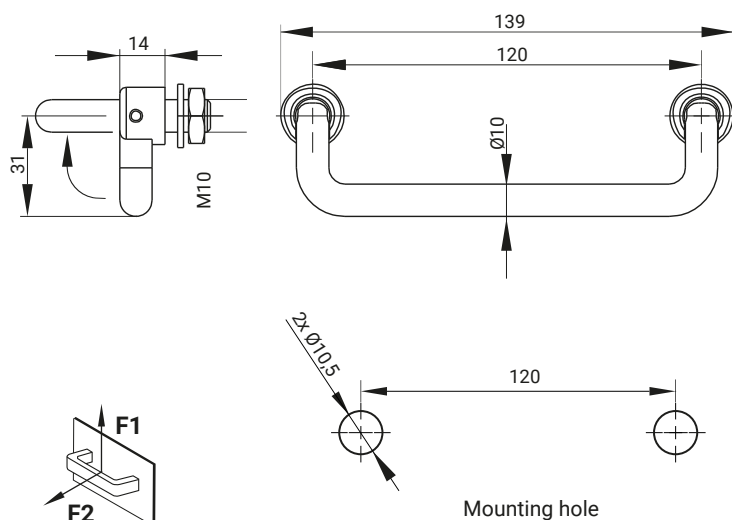


CATALOGUE NO.	DIMENSIONS							MATERIAL	FINISH	
	L	H	A	B	T	C	D			
VERSION 4.447										
4.447.001	100	47	13	20	10	M6	6,6	Aluminum	Natural	
4.447.002	112	49								
4.447.003	128	51								
4.447.004	160	51								
4.447.005	112	53	17	26	12	M8	9			
4.447.006	128	55								
4.447.007	160	57								
4.447.008	192	57								
4.447.009	300	57								
4.447.010	400	57								
4.447.101	100	47	13	20	10	M6	6,6	Aluminum	black plastic coating	
4.447.102	112	49								
4.447.103	128	51								
4.447.104	160	51								
4.447.105	112	53	17	26	12	M8	9			
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	Aluminum	anodising	
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	55	17	26	12	M8	9			
4.447.308	192									
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	17	26	17	ø6,4	6,6		black plastic coating	
4.448.102	132	55								
4.448.103	164	57								
4.448.104	196	57								

Handle 4.446



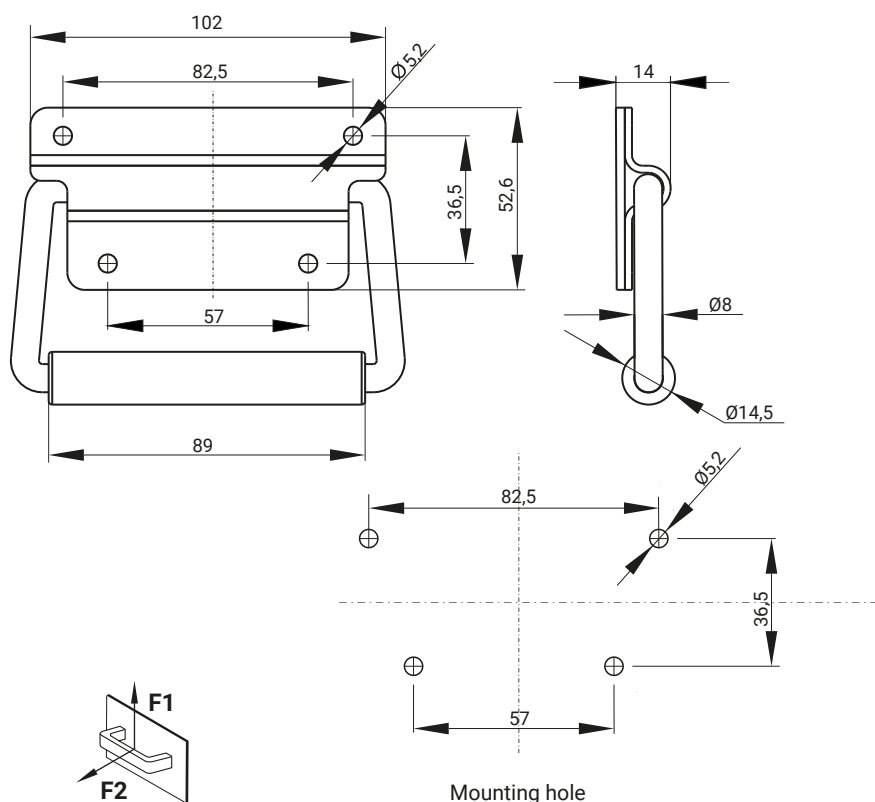
CATALOGUE NO.		DIMENSIONS				
Chrome plated steel	Stainless steel	L	A	H	C	D
4.446.001	4.446.001SN	70	6	32	M4	4,5
4.446.002	4.446.002SN	90	6	32	M4	4,5
4.446.003	4.446.003SN	102	6	32	M4	4,5
4.446.004	4.446.004SN	122	6	32	M4	4,5
4.446.005	4.446.005SN	138	6	32	M4	4,5
4.446.006	4.446.006SN	75	8	40	M5	6
4.446.007	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

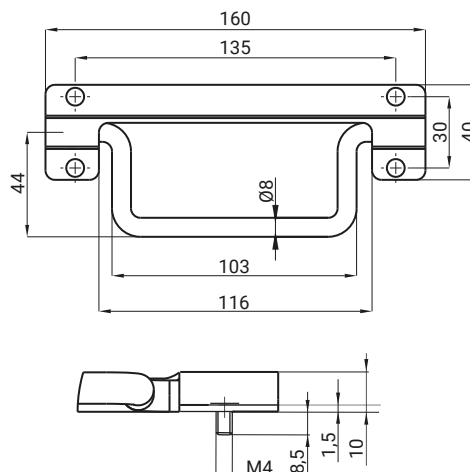
CATALOGUE NO.	F1max, N	F2max, N	F1, N	F2, N
4.444.004	2000	16510	420	5060

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

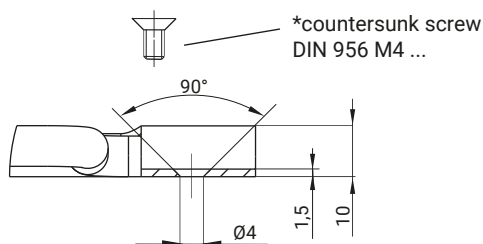
Metal handle 4.442

Drawer handle 4.443

Metal handle 4.442



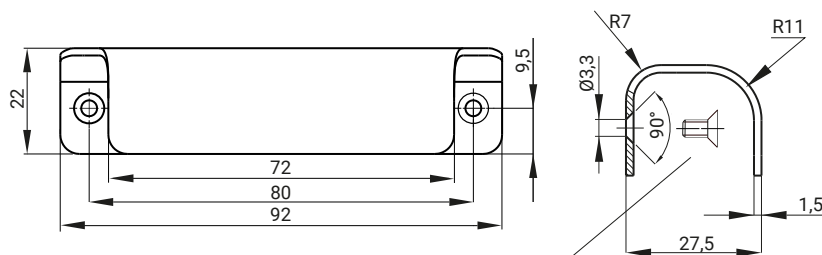
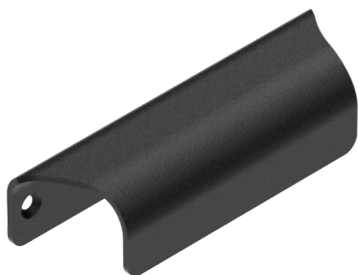
CATALOGUE NO.	COMPONENTS	MATERIAL
4.442.001	Holder, Base	Stainless steel
4.442.003	Holder, Base	Steel zinc plated



* 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



*countersunk screw
DIN 965 M3 x ...

* 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	-	-

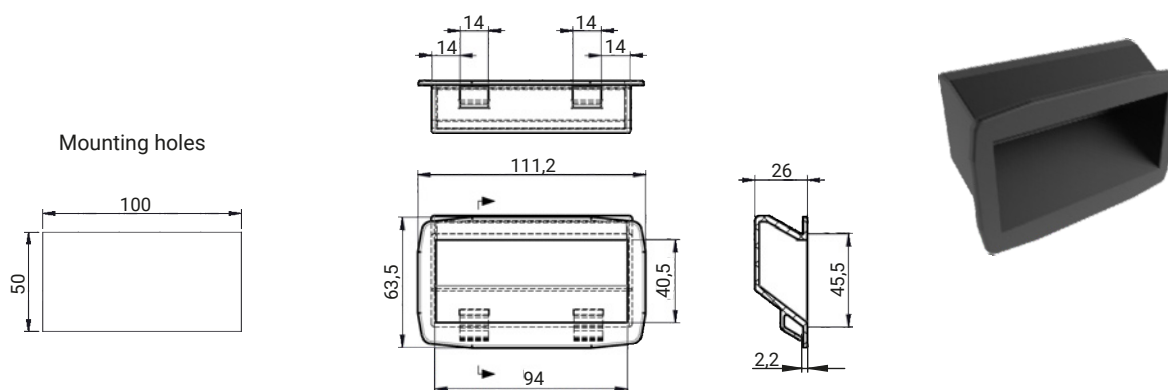
How to order:

Catalogue number

Finish

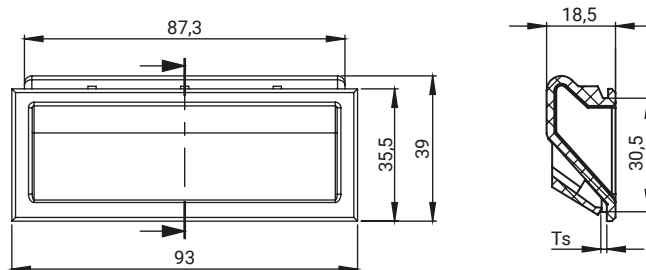
4.443.001

C

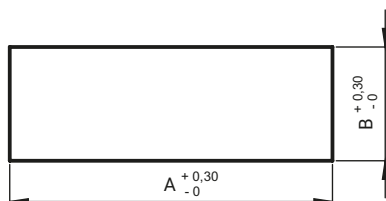


Ts - Thickness of metal sheet

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	



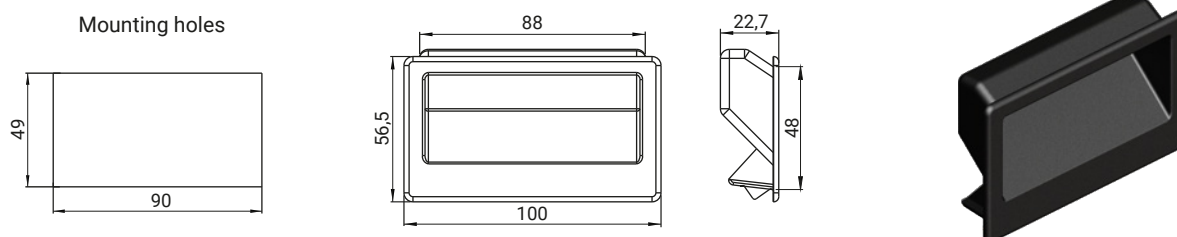
Mounting holes



Ts	A	B
1,2-1,6	87,5	30,7
1,75-2,2	87,5	30,7

Ts - Thickness of metal sheet

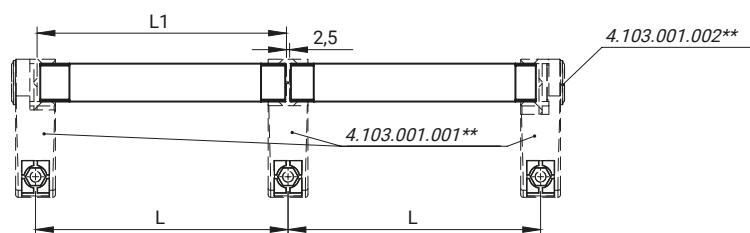
CATALOGUE NO.	MATERIAL	FINISH [C]
		RAL 9005
4.102.002	Polyamide PA6 GF30	07



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.

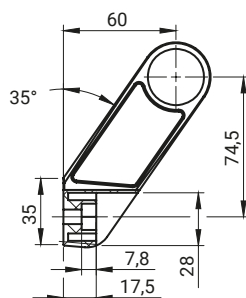
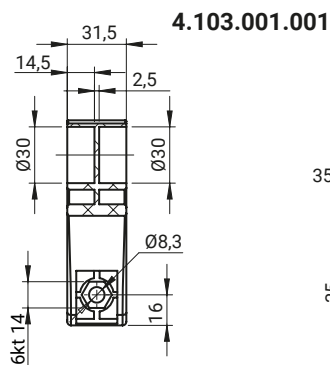
** Grip and cap (4.103.001.001, 4.103.001.002) of the profile ordered separately.

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				

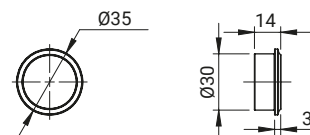
How to order:

Cat. number

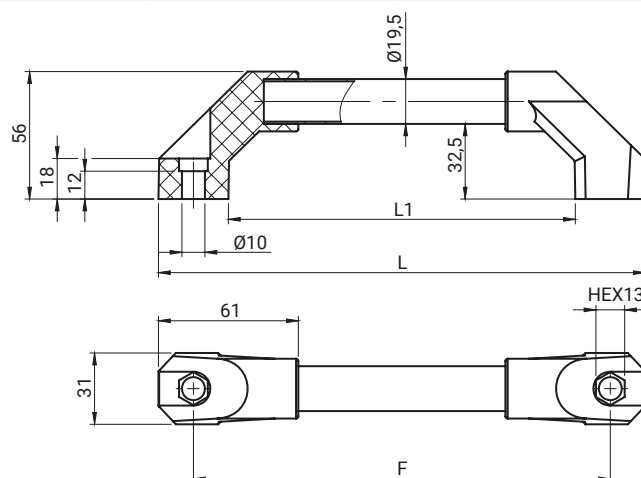
Finish [C]



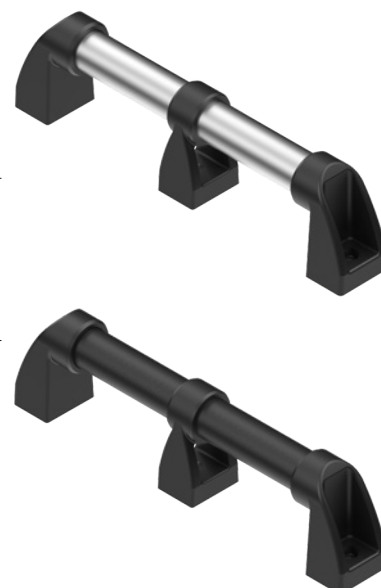
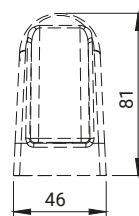
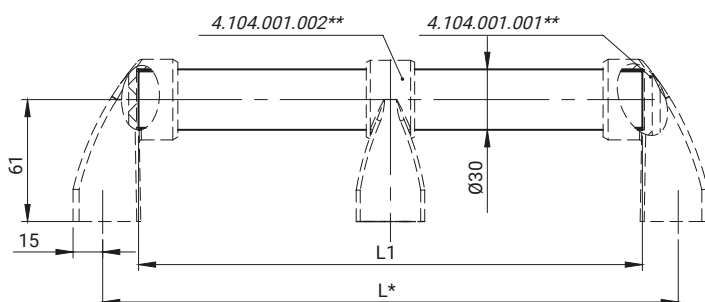
4.103.001.002



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:

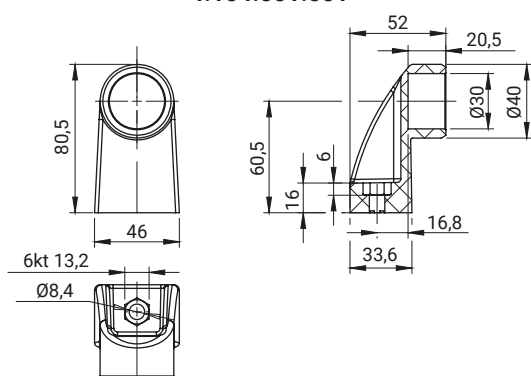
Catalogue number

Finish [C]

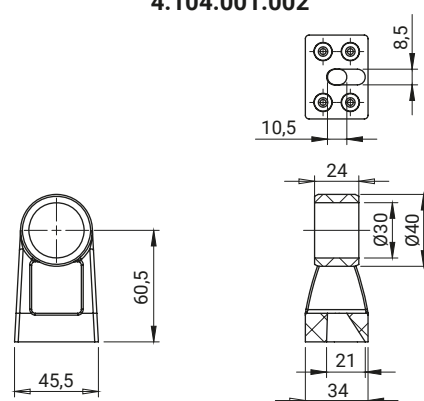
4.104.001.300

04

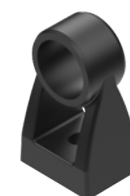
4.104.001.001



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		