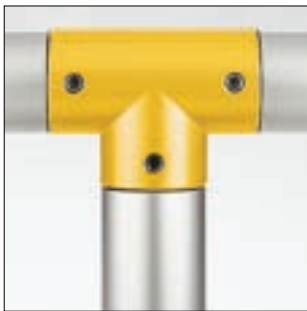


TECNODIN



COMPONENTS FOR INDUSTRY

TECNODIN

Tecnodin S.L. designs, manufactures and markets a wide range of high-quality drive and maneuver elements and industrial components, for more than 75 years.

Our range of standard products represented in this catalog is very extensive and complete. We can also manufacture personalized items according to the needs of our clients.

Our **T4 General Catalog** includes the latest news and designs with more than 3000 items in stock. All these products have a METRIC thread and **all dimensions are in millimeters mm**. They are also available in UNC thread.

The tolerance of the threaded inserts and dowels has been checked and calibrated.

In the tables of products with female thread, the dimension “e” represents the minimum threaded length.

We work with the purpose and objective of guaranteeing the satisfaction of our customers, offering them new products, better service and optimal quality:

- Availability in stock.
- Highly qualified technical team to design, project, manufacture and advise.

Fulfilling our commitment to continuous improvement, we establish and periodically review objectives and goals, committing to the continuous improvement of our activities, following the guidelines of the **Quality Management System** according to the **UNE-EN-ISO 9001:2015** standard.

This edition, **T4**, replaces the previous ones. We reserve the right to modify and improve our articles without prior notice.

Plastic Knobs

							
110002 - p.1	110002 - p.1	470006 - p.2	110011 - p.2	110005 - p.3	110006C - p.3	110006T - p.3	470007C - p.4
							
470007T - p.4	110012 - p.4	110046 - p.4	110013 - p.5	110016 - p.5	110017 - p.5	110018K - p.5	110018K - p.6
							
110018S - p.6	110018T - p.7	110018T - p.7	110020H - p.7	110020K - p.8	110020T - p.8	110021K - p.8	110021K - p.8
							
110021H - p.9	110021D - p.9	110021T - p.10	110021T - p.10	110024K - p.10	110024H - p.11	110024D - p.11	110024D* - p.11
							
110024T - p.11	110025H - p.12	110025T - p.12	110026K - p.12	110026T - p.13	110033H - p.13	110033S - p.13	110033T - p.14
							
110065H - p.14	110065T - p.14	110095H - p.15	110095D - p.15	110095D* - p.15	110095T - p.15	110015 - p.16	110034K - p.16
							
110034K - p.17	110034T - p.17	110034T - p.17	110038C - p.18	110038K - p.18	110038K - p.18	110038D - p.18	110038D - p.19
							
110038T - p.20	110038T - p.20	110039K - p.21	110039T - p.21	110068K - p.21	110068K - p.22	110068T - p.23	110068T - p.24
							
110096K - p.25	110096K - p.26	110096T - p.26	110096T - p.27	380013K - p.27	380013T - p.28	470001K - p.28	470001D - p.28
							
470001T - p.29	470002K - p.29	470002D - p.29	470002D - p.29	470002T - p.30	470002T - p.30	470011K - p.30	470011D - p.30

...



Metal Knobs



Plastic Handwheels

							
110031S - p.51	110031Sa - p.51	110032H - p.51	110032P - p.51	110032S - p.52	110032Sa - p.52	110032T - p.52	110073 - p.52
							
110074 - p.53	110083H - p.53	110083S - p.53	110083Sa - p.53	110083T - p.54	110084D* - p.54	470013 - p.54	470030H - p.55
							
470031D* - p.55	470031D*a-p.55	470031Dm - p.56	470032D* - p.56	470032D*a-p.56	470032D*mp-p.57	470071-p.57	470072-p.58
							
470078-p.58	470079-p.59	470079-p.59	470085-p.59				

Metal Handwheels

							
330001G* - p.60	330001G*a - p.60	330004G* - p.60	330005G* - p.61	330005G*a - p.61	330008G* - p.61	330008G*a - p.62	370001G* - p.62
							
370001G* - p.62	370001G* - p.63	370001G*m-p.63					

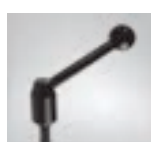
Fixed and Revolving Handles

							
110036 - p.65	110037 - p.65	110040 - p.65	110041 - p.65	110044C - p.66	110044P - p.66	110045 - p.66	110075 - p.66
							
330011 - p.67	330012 - p.67	330013 - p.67	370010 - p.68	370012 - p.68	370038 - p.68	370038 - p.68	470008 - p.69
							
470033 - p.69	470033 - p.69	470034 - p.70	470035 - p.70	470095 - p.70	470047 - p.71	380002T - p.71	380002T - p.71
							
470042 - p.72	470043T - p.72						

Hand Grips

							
410042 - p.72	410043 - p.72	410044 - p.73	470017 - p.73	470018 - p.73	470009 - p.73	72000101 - p.74	72000102 - p.74
							
72000104 - p.74	72000105 - p.74	72000108 - p.74	72000161 - p.74	72000162 - p.74	72000159 - p.74	72000163 - p.74	72000155 - p.74
							
72000147 - p.74	72000149 - p.74						

Clamping Levers and Cranking Handles

							
110098K - p.75	110098K - p.75	110098T - p.76	110098T - p.77	470049 - p.77	370097K - p.78	370097T - p.78	380033K - p.78
							
380033T - p.79	470050C - p.79	470050C - p.79	470050T - p.80	470050T - p.80	110030 - p.80	470051K - p.81	470051T - p.81
							
470052K - p.81	470052T - p.81	470086C - p.82	470086T - p.82	470088K - p.83	470088T - p.83	470012 - p.84	470012K - p.84
							
470014 - p.84	470014K - p.84	470015 - p.85	470015K - p.85	470016 - p.85	470016K - p.86	380005 - p.86	330030 - p.86
							
330032 - p.87	330038 - p.87	370040 - p.87	370043 - p.87	370044 - p.88	370044T - p.88		

Handles

							
110053 - p.89	110058 - p.89	110061 - p.89	470048 - p.89	110055 - p.90	110055K - p.90	110056 - p.91	110057 - p.91
							
110060 - p.92	470005 - p.92	470005 - p.92	470039 - p.93	310006 - p.93	310007 - p.93	310009 - p.94	310012 - p.94
							
310018 - p.95	310019 - p.95	310020 - p.95	310025 - p.96	310027 - p.96	310035 - p.97	310036 - p.97	310037 - p.98
							
310042 - p.98	310043 - p.99	310047 - p.99	310048 - p.99	310051 - p.100	310052 - p.100	370033 - p.101	370033 - p.101

...

...



Conveyor Components



Lockings



...

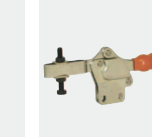
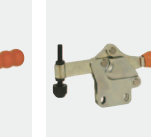
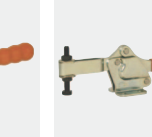
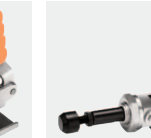
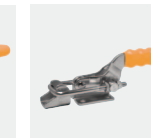
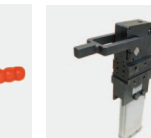
...



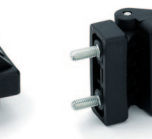
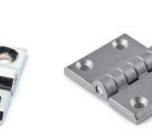
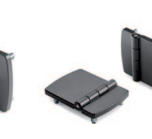
Levelling Feet and Tube Ends



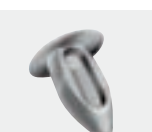
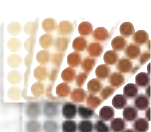
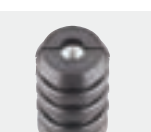
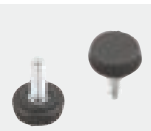
Toggle Clamps

							
740011 - p.140	740001 - p.140	740015 - p.140	740011 - p.140	740014 - p.140	740001 - p.140	740001 - p.140	740001 - p.140
							
740001 - p.140	740001 - p.140	740004 - p.140	740021 - p.140	740021 - p.140	740021 - p.140	740021 - p.140	740023 - p.140
							
740031 - p.140	740035 - p.140	740033 - p.140	740033 - p.140	740033 - p.140	740031 - p.140	BPC40 - p.140	740039 - p.140
							
740041 - p.140	740038 - p.140	740036 - p.140					

Hinges

							
470054K - p.141	470054M - p.141	470054N - p.141	470054T - p.141	470055K - p.142	470055K*-p.142	470055T - p.142	470055T*-p.142
							
470056 - p.143	470056 - p.143	470057 - p.143	420046 - p.144	420047 - p.144	470056BK-p.144	470056CR-p.145	470056ZK-p.145
							
470056 - p.145	470066FR-p.146	470066V - p.146	470066PR-p.147	470066DS-p.147	470066AS-p.148	470067 - p.148	470067EX-p.149
							
470067MN-p.149	470067DS-p.150						

Furniture Components

							
34000101 - p.151	34000104 - p.151	34000106 - p.151	34000107 - p.151	34000110 - p.151	34000118 - p.151	34000408 - p.151	34000124 - p.151
							
34000128 - p.151	34000130 - p.151	34000928 - p.151	34000713 - p.151	34000201 - p.151	34000722 - p.151	34000221 - p.151	34000802 - p.151
							
34000431 - p.151	34000424 - p.151	34000403 - p.151	34009999 - p.151	34000924 - p.151	34000441 - p.151	34000412 - p.151	34000417 - p.151

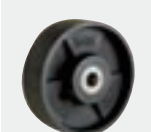
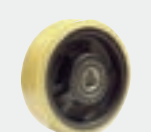
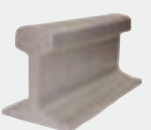
Self-aligning Bearing Supports

					
420030 - p.152	420031 - p.152	420032 - p.152	420033 - p.152	420034 - p.152	420011 - p.152

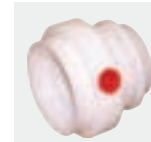
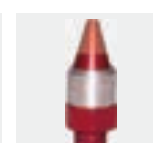
Safety Fences

		
Sin marco - p.152	Con marco - p.152	Accesorios - p.152

Wheels and Castors

							
C - p.153	SDF - p.153	SFH - p.153	CDF - p.153	CFT - p.153	H - p.153	CSF - p.153	SFR - p.153
							
SSFF - p.153	SFT - p.153	WG - p.153	QZ - p.153	PR - p.153	Raíles - p.153	JU - p.153	

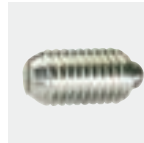
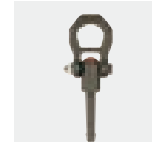
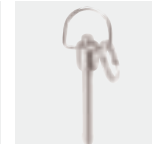
Air Amplifiers

							
AM10 - p.154	AM35 - p.154	AM40 - p.154	AM125 - p.154	AM60A - p.154	SS40A - p.154	AA60A - p.154	RV3SS - p.154
							
UJ - p.154	RB2AL - p.154	AG32 - p.154	CG22 - p.154	A4 - p.154	DP175 - p.154	CG4AX - p.154	CG4 - p.154
							
EC - p.154	EV4 - p.154	SE - p.154	AN150 - p.154	4100 - p.154	AB150 - p.154	PU502 - p.154	AEV4 - p.154

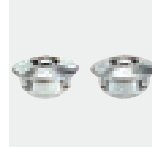
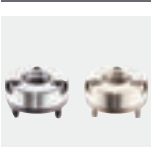
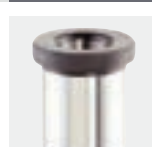
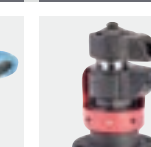
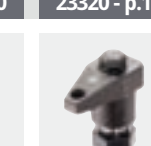
Position Indicators

			
470091 - p.155	470092 - p.156	470094 - p.157	470093 - p.158

Halder Standard Parts

							
22030 - p.159	22030 - p.159	22050 - p.159	22080 - p.159	22090 - p.159	22110 - p.160	22110 - p.160	22120 - p.161
							
22120 - p.161	22130 - p.161	22150 - p.161	22330 - p.162	22340 - p.162	22350 - p.162	22160 - p.162	22340 - p.162
							
22350 - p.162	22350 - p.162	22400 - p.163	4213 - p.163	22560 - p.163	22620 - p.164	22630 - p.164	22630 - p.164
							
22691 - p.164	22710 - p.165	22720 - p.165	22730 - p.165	22741 - p.165	22880 - p.166	22980 - p.166	22982 - p.166

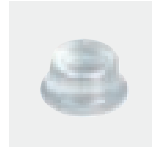
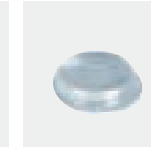
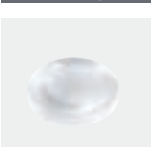
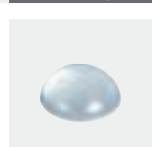
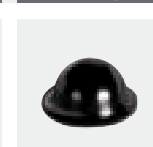
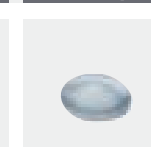
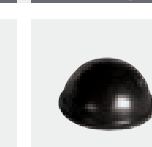
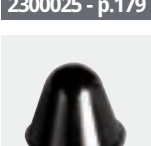
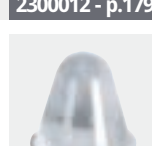
...

							
22750 - p.166	22750 - p.166	23030 - p.167	23050 - p.167	23080 - p.168	23100 - p.168	23111 - p.168	23111 - p.168
							
23111 - p.168	23112 - p.169	23140 - p.169	23150 - p.169	23330 - p.170	23320 - p.171	24100 - p.171	22730 - p.172
							
23010 - p.172	23020 - p.172	23700 - p.173	23220 - p.173	23320 - p.173	23310 - p.173	1000.800-p.174	1906 - p.174

Terminal Boards

							
110093A - p.175	110093B - p.175	390001 - p.175	390003 - p.176	390019 - p.176	470070 - p.177	470075 - p.177	820065 - p.178
							
820066 - p.178	820067 - p.178	820068 - p.178					

Self-Adhesive Bumpers

							
2300034 - p.179	2300035 - p.179	2300005 - p.179	2300001 - p.179	2300006 - p.179	2300011 - p.179	2300072 - p.179	2300040 - p.179
							
2300025 - p.179	2300012 - p.179	2300022 - p.179	2300010 - p.179	2300008 - p.179	2300020 - p.179	2300032 - p.179	2300029 - p.179
							
2300037 - p.179	2300047 - p.179						

Antivibration Mounts



Hammers, Mallets and Forestry Tools



Accessories for Hydraulic Systems





Plastic Screws and Nuts



Keys, key bars and Pins



DIN6885 - p.247



DIN6880 - p.247



DIN6885A - p.247



DIN7979 - p.247



ISO2338 - p.247



ISO7379 - p.247

Tube Connectors



1680 - p.250



1690 - p.250



2330 - p.250



1042 - p.252



1043 - p.252



1044 - p.252



1045 - p.252



1046 - p.252



1047 - p.252



1048 - p.252



1049 - p.252



1050 - p.252



1052 - p.252



1055 - p.252



1056 - p.252



1057 - p.252



1062 - p.252

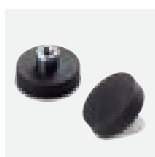


3048 - p.252

Magnets



47007301-p.255



47007302-p.255



47007303-p.256



47007304-p.256



47007305-p.257



47007310-p.257



47007310 M-p.258



47007311-p.258



47007311 M-p.259



47007312-p.259



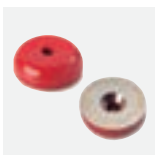
47007314-p.260



47007317-p.260



47007319-p.261



47007323-p.261



47007324-p.262



47007330-p.262



47007332-p.263



47007333-p.263



47007334-p.264



47007336-p.264

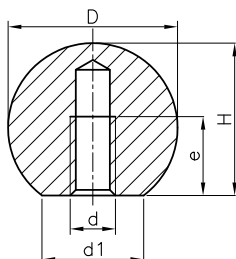


47007338-p.265



47007340-p.265

110002C DIN 319 WITH THREADED HOLE



Black Code	Red Code	D	d	d1	e	H
11000212101	-	12	M4	6	8	11
11000216101	11000216102*	16	M4	8	9	15
11000220101	11000220102*	20	M5	12	13	18
11000225101	11000225102	25	M6	15	16	23
11000230101	11000230102	30	M8	15	19	27
11000235101	11000235102	35	M10	18	24	32
11000240101	11000240102	40	M10	22	26	37
11000245101	11000245102	45	M12	22	31	43
11000250101	11000250102	50	M12	27	34	47

*Please ask for MOQ and RAL.

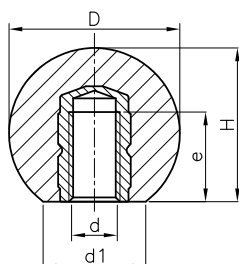


Molded thread.

PF: Duroplast FS 31 DIN 7708, black and red color.

RAL 3003 Red.

110002K DIN 319 WITH THREADED INSERT

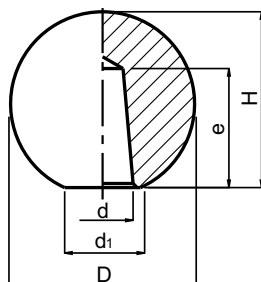


Code	D	d	d1	e	H	Color
11000216301	16	M4	8	8	15	Black
11000220301	20	M5	12	8	18	Black
11000225301	25	M6	15	10	23	Black
11000230301	30	M8	15	14	27	Black
11000235301	35	M10	18	16	32	Black
11000240301	40	M10	22	16	37	Black
11000245301	45	M12	22	18	43	Black
11000250301	50	M12	27	18	46	Black

Threaded female brass insert.

PF: Black Duroplast FS 31 DIN 7708.

110002M DIN 319 TAPERED HOLE

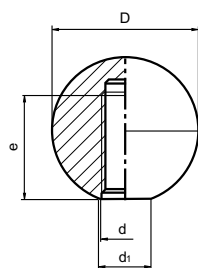


Code	D	d1	d	e	H	Fmin(1)
11000216105	16	8	4	9	15	100
11000220105	20	12	5	12	18	150
11000225105	25	15	6	15	23	200
11000232105	35	18	8	21	32	300
11000240105	40	22	10	20	37	400
11000250105	50	27	12	22	47	500

(1) Minimum force required to extract pre-pressed stems with tolerance h7 in terms of diameter. Newtons (S/DIN).

PF: Black Duroplast FS 31 DIN 7708.

470006 TMP BALL KNOB WITH THREADED HOLE



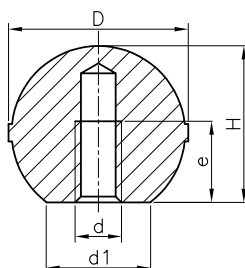
Code	D	d	d1	e	Color
47000615101	15	M4	9	10	Black
47000620101	20	M5	10	14	Black
47000625101	25	M6	14	18	Black
47000630101	30	M8	14	22	Black
47000635101	35	M10	16	25	Black
47000640101	40	M10	16	25	Black
47000645101	45	M12	18	25	Black
47000650101	50	M12	18	25	Black

Molded thread.

PA: Reinforced polyamide.

Upon request, we can manufacture these pieces with a threadless hole, other metric threads, or with a brass or stainless steel bushing (ask for minimum quantities).

110011C KNURLED BALL WITH THREADED HOLE

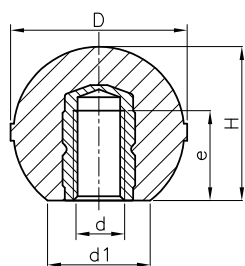


Code	D	d	d1	e	H	Color
11001120101	20	M5	12	8	18	Black
11001125101	25	M6	15	10	23	Black
11001130101	30	M8	16	14	27	Black
11001135101	35	M10	19	16	32	Black
11001140101	40	M10	22	16	37	Black
11001145101	45	M12	20	18	43	Black
11001150101	50	M12	20	18	47	Black
11001155101	55	M12	20	18	53	Black

Molded thread.

PF: Black Duroplast FS 31 DIN 7708.

110011K KNURLED BALL WITH THREADED INSERT

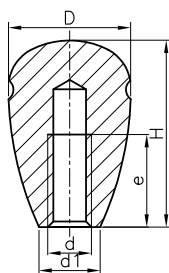


Code	D	d	d1	e	H	Color
11001120301	20	M5	12	9	18	Black
11001125301	25	M6	15	10	23	Black
11001130301	30	M8	16	14	27	Black
11001135301	35	M10	19	17	32	Black
11001140301	40	M10	22	17	37	Black
11001145301	45	M12	20	19	43	Black
11001150301	50	M12	20	19	47	Black
11001155301	55	M12	20	19	53	Black

Threaded female brass insert.

PF: Black Duroplast FS 31 DIN 7708.

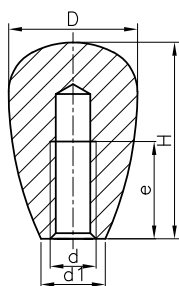
110005 ITAL WITH THREADED HOLE



Code	D	d	d1	e	H	Color
11000519101	19	M5	10	15	30	Black
11000522101	22	M6	13	19	34	Black
11000529101	29	M8	15	23	44	Black
11000535101	35	M10	16	25	51	Black
11000537101	37	M10	17	25	58	Black

Molded thread.
PF: Black Duroplast FS 31 DIN 7708.

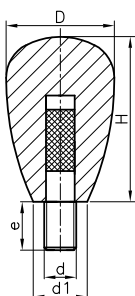
110006C PLAIN KNOB WITH THREADED HOLE



Code	D	d	d1	e	H	Color
11000619101	19	M5	10	15	30	Black
11000622101	22	M6	13	19	34	Black
11000629101	29	M8	15	23	44	Black
11000635101	35	M10	16	25	51	Black
11000637101	37	M10	17	25	58	Black

Molded thread.
PF: Black Duroplast FS 31 DIN 7708.
Available in red similar RAL 3011. Please ask.

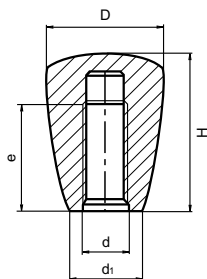
110006T PLAIN KNOB WITH THREADED STUD



Code	D	d	d1	e	H	Color
11000622501	22	M6	13	15	34	Black
11000629501	29	M8	15	15	44	Black
11000635501	35	M10	16	15	51	Black
11000637501	37	M10	17	15	58	Black

Treated threaded steel stud.
PF: Black Duroplast FS 31 DIN 7708.

470007C TMP PLAIN KNOB WITH THREADED HOLE



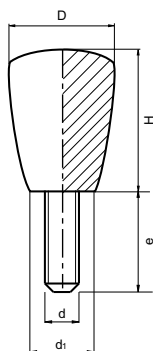
Code	D	d	d1	e	H	Color
47000721101	21	M6	13	16	28	Black
47000725101	25	M6	17	24	34	Black
47000732101	32	M8	21	30	43	Black
47000743101	43	M10	27	36	58	Black

Molded thread.

PA: Reinforced polyamide.

Upon request, we can manufacture these pieces with a threadless hole, other metric threads, or with a brass or stainless steel bushing (ask for MOQ).

470007T TMP PLAIN KNOB WITH THREADED STUD



Code	D	d	d1	e	H	Color
47000721502*	21	M6	13	16	28	Black
47000725502	25	M6	17	16	34	Black
47000732501	32	M8	21	30	43	Black
47000743501	43	M10	27	30	58	Black

* MOQ: 250u.

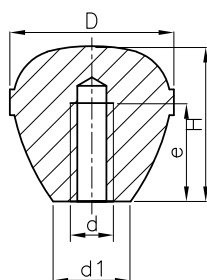
Treated threaded steel stud.

PA: Reinforced polyamide.

Different stud lengths or threads on demand.

For different colours, please ask.

110012 OVAL KNOB WITH THREADED HOLE

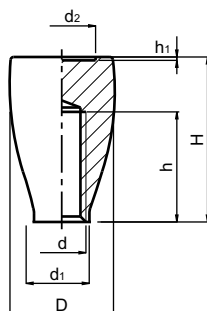


Code	D	d	d1	e	H	Color
11001219101	19	M5	9	8	18	Black
11001223101	23	M6	11	14	23	Black
11001226101	26	M6	12	14	25	Black
11001231101	31	M8	14	16	29	Black
11001235101	35	M10	16	20	35	Black
11001241101	41	M10	18	20	39	Black
11001248101	48	M12	21	24	48	Black

Molded thread.

PF: Black Duroplast FS 31 DIN 7708.

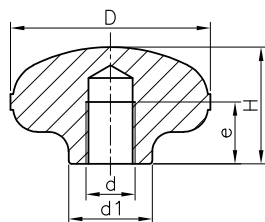
110046 GB KNOB WITH RECESS



Code	D	H	d	h	d1	d2	h1
11004628151	28	32,8	M8	16	14	18	0.9
11004633151	33	53,6	M10	20	18	22	1.1

PF: Black Duroplast FS 31 DIN 7708.

110013 TAPERED KNOB WITH THREADED HOLE

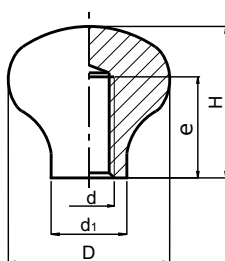


Code	D	d	d1	e	H	Color
11001326101	26	M6	10	10	15	Black
11001331101	31	M8	13	13	19	Black
11001341101	41	M10	17	15	24	Black

AVAILABLE ON REQUEST.
ASK MOQ.

Molded thread.
PF: Black Duroplast FS 31 DIN 7708.

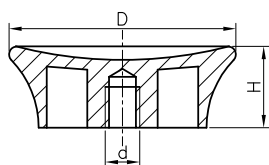
110016 C.M. KNOB WITH THREADED HOLE



Code	D	d	d1	e	H	Color
11001632101	32	M8	15	16	30	Black
11001650101	50	M12	23	24	40	Black

Molded thread.
PF: Black Duroplast FS 31 DIN 7708.

110017 LID KNOB WITH THREADED HOLE

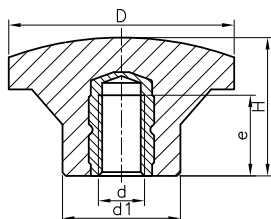


Code	D	d	H	Color
11001733101	33	W 1/4"	16	Black
11001741101	41	W 1/4"	18	Black

AVAILABLE ON REQUEST.
ASK MOQ.

Molded thread.
PF: Black Duroplast FS 31 DIN 7708.

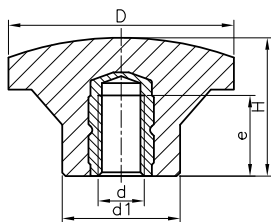
110018K STAR-STUB WITH THREADED INSERT



Code	D	H	d	d1	e	Color
11001822303	22	19	M5	12	9	Black
11001822302	22	19	M6	12	10	Black
11001833304	33	24	M6	19	10	Black
11001833303	33	24	M8	19	14	Black
11001844303	44	27	M8	23	14	Black
11001844305	44	27	M10	23	17	Black
11001855306	55	34	M8	25	14	Black
11001855308	55	34	M10	25	17	Black
11001866302	66	42	M12	30	19	Black
11001877303	77	46	M12	30	19	Black

Threaded female brass insert.
PF: Black Duroplast FS 31 DIN 7708.

110018K STAR-STUB WITH STAINLESS STEEL THREADED INSERT



Code	D	H	d	d1	e	Color
11001833307	33	24	M6	19	10	Black
11001844308	44	27	M8	23	14	Black
11001855310	55	34	M10	25	17	Black

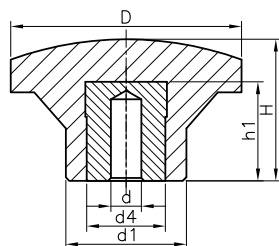
Threaded female stainless-steel AISI-303 insert.

PF: Black Duroplast FS 31 DIN 7708.

Another sizes, ask.



110018H STAR-STUB WITH SMOOTH HOLE INSERT

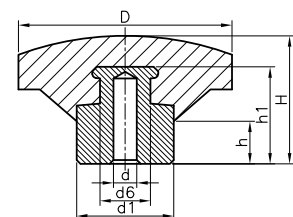


Code	D	H	d	d1	d4	h1	Color
11001822301	22	19	5,25	12	8	12	Black
11001833301	33	24	5,25	19	14	17	Black
11001844301	44	27	5,25	23	18	22	Black
11001855301	55	34	5,25	25	18	22	Black
11001866301	66	42	5,25	30	18	22	Black
11001877301	77	46	5,25	30	18	22	Black

Treated steel smooth hole insert.

PF: Black Duroplast FS 31 DIN 7708.

110018S STAR-STUB WITH SMOOTH HOLE HUB

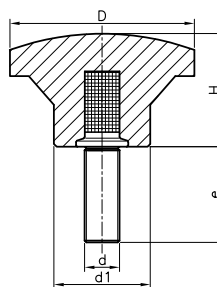


Code	D	d	d6	d1	h	h1	H	Color
11001844601	44	5,25	19	23	10	20	26	Black
11001855601	55	5,25	19	25	11	29	32	Black
11001866601	66	5,25	22	30	16	26	41	Black
11001877601	77	5,25	22	30	16	26	43	Black

Zinc-plated steel hub.

PF: Black Duroplast FS 31 DIN 7708.

110018T STAR-STUB WITH THREADED STUD

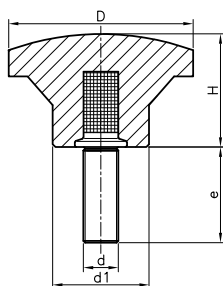


Treated threaded steel stud.
PF: Black Duroplast FS 31 DIN 7708.

Code	D	H	d	e	d1	Color
11001822513	22	19	M5	10	12	Black
11001822502	22	19	M5	20	12	Black
11001822511	22	19	M6	10	12	Black
11001822501	22	19	M6	20	12	Black
11001822514	22	19	M6	30	12	Black
11001833502	33	24	M6	15	19	Black
11001833538	33	24	M6	20	19	Black
11001833539	33	24	M6	25	19	Black
11001833505	33	24	M6	30	19	Black
11001833520	33	24	M6	40	19	Black
11001833512	33	24	M8	20	19	Black
11001833501	33	24	M8	27	19	Black
11001833540	33	24	M8	33	19	Black
11001833541	33	24	M8	40	19	Black
11001844504	44	27	M8	15	23	Black
11001844502	44	27	M8	27	23	Black

Code	D	H	d	e	d1	Color
11001844513	44	27	M8	33	23	Black
11001844516	44	27	M8	40	23	Black
11001844523	44	27	M8	47	23	Black
11001844508	44	27	M10	20	23	Black
11001844501	44	27	M10	33	23	Black
11001844524	44	27	M10	44	23	Black
11001844525	44	27	M10	64	23	Black
11001855511	55	34	M10	20	25	Black
11001855502	55	34	M10	33	25	Black
11001855512	55	34	M10	44	25	Black
11001855513	55	34	M10	64	25	Black
11001855501	55	34	M12	40	25	Black
11001866508	66	42	M12	40	30	Black
11001866507	66	42	M12	60	30	Black
11001877502	77	46	M12	40	30	Black

110018T STAR-STUB WITH STAINLESS STEEL THREADED STUD

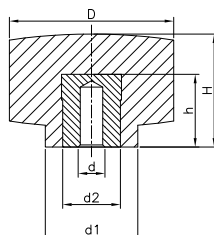


Stainless-steel A2 threaded stud.
PF: Black Duroplast FS 31 DIN 7708.



Code	D	H	d	e	d1	Color
11001822517	22	19	M5	16	12	Black
11001833542	33	24	M6	10	19	Black
11001833543	33	24	M6	20	19	Black
11001844526	44	27	M8	16	23	Black
11001844527	44	27	M8	25	23	Black
11001855514	55	34	M10	20	25	Black
11001855515	55	34	M10	30	25	Black
11001866509	66	42	M12	25	30	Black
11001866510	66	42	M12	35	30	Black

110020H FORZA WITH SMOOTH HOLE INSERT

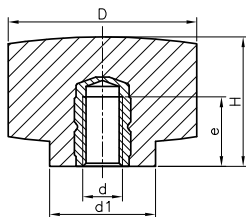


Code	D	H	d	d1	d2	h	Color
11002025301	25	19	5,25	16	12	15	Black
11002032301	32	22	5,25	18	12	15	Black
11002040301	40	27	5,25	21	14	17	Black
11002050301	50	31	5,25	23	18	22	Black

AVAILABLE ON REQUEST.
ASK MOQ.

Treated steel smooth hole insert.
PF: Black Duroplast FS 31 DIN 7708.

110020K FORZA WITH THREADED INSERT

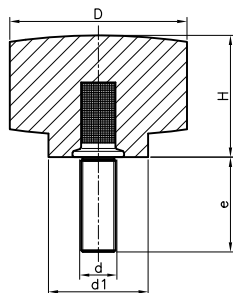


Code	D	H	d	d1	e	Color
11002025303	25	19	M6	16	10	Black
11002032306	32	22	M6	18	10	Black
11002040306	40	27	M8	21	14	Black
11002050306	50	31	M8	23	14	Black

AVAILABLE ON REQUEST.
ASK MOQ.

Threaded female brass insert.
PF: Black Duroplast FS 31 DIN 7708.

110020T FORZA WITH THREADED STUD

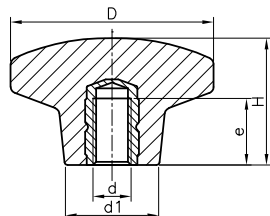


Code	D	H	d	e	d1	Color
11002025501	25	19	M6	20	16	Black
11002032501	32	22	M6	25	18	Black
11002040501	40	27	M8	27	21	Black
11002050501	50	31	M10	33	23	Black

AVAILABLE ON REQUEST.
ASK MOQ.

Treated threaded steel stud.
PF: Black Duroplast FS 31 DIN 7708.

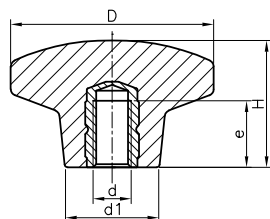
110021K DIN 6335 WITH THREADED INSERT



Code	D	H	d	d1	e	Color
11002120301	20	14	M4	10	8	Black
11002125301	25	15	M5	12	9	Black
11002132301	32	20	M6	14	10	Black
11002140301	40	26	M8	18	14	Black
11002150301	50	32	M10	22	17	Black
11002163301	63	38	M12	26	19	Black
11002180301	80	50	M16	32	27	Black

Threaded female brass insert.
PF: Black Duroplast FS 31 DIN 7708.

110021K DIN 6335 WITH STAINLESS STEEL THREADED INSERT

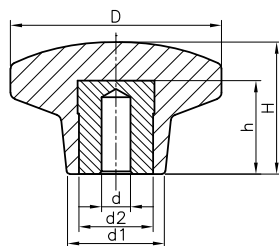


Code	D	H	d	d1	e	Color
11002132304	32	20	M6	14	10	Black
11002140308	40	26	M8	18	14	Black
11002150311	50	32	M10	22	17	Black

Threaded female stainless-steel AISI-303 insert.
PF: Black Duroplast FS 31 DIN 7708.
Another sizes, ask.



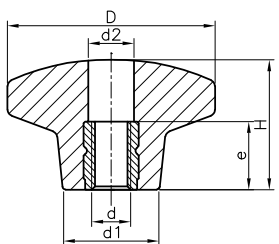
110021H DIN 6335 WITH SMOOTH HOLE INSERT



Code	D	H	d	d2	d1	h	Color
11002140302	40	26	5,25	12	18	15	Black
11002150302	50	32	5,25	14	22	17	Black
11002163302	63	38	5,25	18	26	22	Black
11002180302	80	50	5,25	18	32	22	Black

Treated steel smooth hole insert.
PF: Black Duroplast FS 31 DIN 7708.

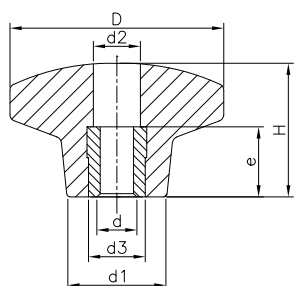
110021D DIN 6335 WITH THREADED THROUGH-HOLE INSERT



Code	D	H	d	d1	d2	e	Color
11002120401	20	14	M4	10	4,3	8	Black
11002125401	25	15	M5	12	5,3	7	Black
11002132401	32	20	M6	14	6,4	10	Black
11002140401	40	26	M8	18	8,4	14	Black
11002150401	50	32	M10	22	10,5	16	Black
11002163401	63	38	M12	26	13	18	Black
11002180401	80	50	M16	32	17	20	Black

Brass threaded through hole insert.
PF: Black Duroplast FS 31 DIN 7708.

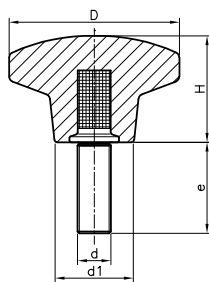
110021D* DIN 6335 WITH SMOOTH THROUGH-HOLE INSERT



Code	D	d3	d	d2	d1	H	e
11002140402	40	12	5,25	8,4	18	26	14
11002150402	50	14	5,25	10,5	22	32	17
11002163402	63	16	5,25	13	26	28	19
11002180402	80	18	5,25	17	32	50	27

Treated steel insert.
PF: Black Duroplast FS 31 DIN 7708.

110021T DIN 6335 WITH THREADED STUD

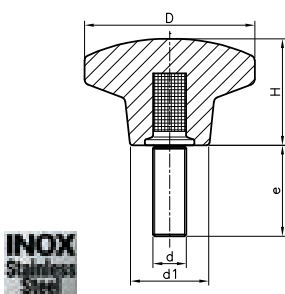


Treated threaded steel stud.
PF: Black Duroplast FS 31 DIN 7708.

Code	D	H	d	e	d1	Color
11002120501	20	14	M4	15	10	Black
11002120523	20	14	M5	10	10	Black
11002120522	20	14	M5	20	10	Black
11002125501	25	15	M5	20	12	Black
11002132510	32	20	M6	10	14	Black
11002132512	32	20	M6	15	14	Black
11002132501	32	20	M6	20	14	Black
11002132503	32	20	M6	25	14	Black
11002132511	32	20	M6	30	14	Black
11002132502	32	20	M6	40	14	Black
11002140512	40	26	M6	15	18	Black
11002140522	40	26	M6	20	18	Black
11002140513	40	26	M6	25	18	Black
11002140514	40	26	M6	30	18	Black
11002140515	40	26	M6	40	18	Black
11002140508	40	26	M8	20	18	Black
11002140501	40	26	M8	27	18	Black
11002140516	40	26	M8	33	18	Black

Code	D	H	d	e	d1	Color
11002140517	40	26	M8	40	18	Black
11002140502	40	26	M8	47	18	Black
11002150514	50	32	M8	20	22	Black
11002150522	50	32	M8	33	22	Black
11002150515	50	32	M8	47	22	Black
11002150503	50	32	M10	20	22	Black
11002150516	50	32	M10	33	22	Black
11002150501	50	32	M10	44	22	Black
11002150502	50	32	M10	64	22	Black
11002163511	63	38	M10	20	26	Black
11002163522	63	38	M10	33	26	Black
11002163512	63	38	M10	44	26	Black
11002163503	63	38	M10	64	26	Black
11002163501	63	38	M12	40	26	Black
11002163502	63	38	M12	60	26	Black
11002180522	80	50	M12	40	32	Black
11002180501	80	50	M16	55	32	Black
11002180502	80	50	M16	75	32	Black

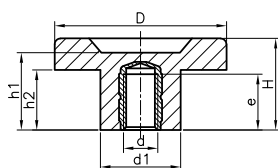
110021T DIN 6335 WITH STAINLESS STEEL THREADED STUD



Stainless-steel A2 threaded stud.
PF: Black Duroplast FS 31 DIN 7708.

Code	D	H	d	e	d1	Color
11002132515	32	20	M6	10	14	Black
11002132516	32	20	M6	20	14	Black
11002140520	40	26	M6	16	18	Black
11002140521	40	26	M8	16	18	Black
11002140523	40	26	M8	25	18	Black
11002150530	50	32	M8	20	22	Black
11002150531	50	32	M10	20	22	Black
11002150532	50	32	M10	30	22	Black
11002163513	63	38	M10	25	26	Black
11002163514	63	38	M12	25	26	Black
11002163515	63	38	M12	35	26	Black
11002180506	80	50	M12	30	32	Black

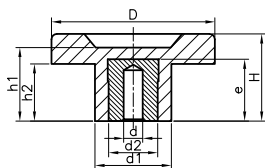
110024K SZ WITH THREADED INSERT



Threaded female brass insert.
PF: Black Duroplast FS 31 DIN 7708.

Code	D	H	h1	h2	d	d1	e	Color
11002430302	30	25	24	16	M6	20	10	Black
11002430311	30	25	24	16	M8	20	14	Black
11002445311	45	28	25	17	M8	24	14	Black
11002445306	45	28	25	17	M10	24	17	Black
11002460311	60	32	28	21	M8	28	14	Black
11002460303	60	32	28	21	M10	28	17	Black
11002460307	60	32	28	21	M12	28	19	Black

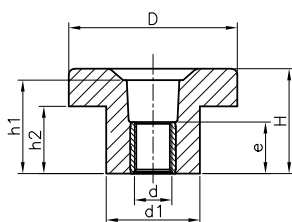
110024H SZ WITH SMOOTH HOLE INSERT



Code	D	H	h1	h2	d	d1	d2	e	Color
11002430301	30	25	24	16	5.25	20	14	17	Black
11002445301	45	28	25	17	5.25	24	18	22	Black
11002460301	60	32	28	21	5.25	28	18	22	Black

Treated steel smooth hole insert.
PF: Black Duroplast FS 31 DIN 7708.

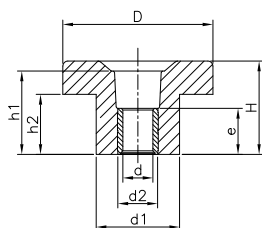
110024D SZ WITH THREADED THROUGH-HOLE INSERT



Code	D	H	h1	h2	d	d1	e	Color
11002430411	30	25	24	16	M6	20	11,5	Black
11002430409	30	25	24	16	M8	20	13,8	Black
11002445411	45	28	25	17	M8	24	13,8	Black
11002445407	45	28	25	17	M10	24	13,8	Black
11002460412	60	32	28	21	M8	28	13,8	Black
11002460410	60	32	28	21	M10	28	13,8	Black
11002460411	60	32	28	21	M12	28	13,8	Black

Brass threaded through hole insert.
PF: Black Duroplast FS 31 DIN 7708.

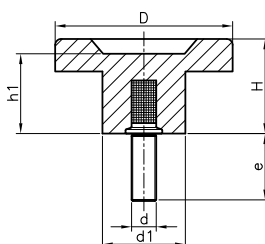
110024D* SZ WITH SMOOTH THROUGH-HOLE INSERT



Code	D	H	h1	h2	d	d1	d2	e	Color
11002430421	30	25	24	16	5,25	20	10	11,5	Black
11002445421	45	28	25	17	5,25	24	12	13,8	Black
11002460421	60	32	28	21	5,25	28	12	13,8	Black

Treated steel smooth through hole insert.
PF: Black Duroplast FS 31 DIN 7708.

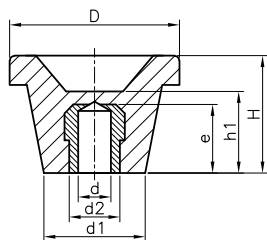
110024T SZ WITH THREADED STUD



Code	D	H	h1	d	e	d1	Color
11002430507	30	25	24	M8	27	20	Black
11002445509	45	28	25	M10	33	24	Black
11002460506	60	32	28	M12	40	28	Black

Treated threaded steel stud.
PF: Black Duroplast FS 31 DIN 7708.

110025H CL WITH SMOOTH HOLE INSERT

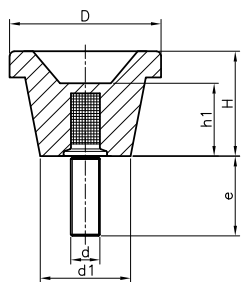


Code	D	H	d	e	d2	h1	d1	Color
11002537302	37	30	5,25	17	14	21	22	Black
11002544302	44	34	5,25	17	14	24	26	Black
11002552302	52	36	5,25	22	18	25	31	Black
11002560302	60	41	5,25	22	18	27	36	Black
11002570302	70	44	5,25	22	18	29	38	Black
11002580302	80	45	5,25	22	18	30	37	Black

AVAILABLE ON REQUEST.
ASK MOQ.

Treated steel smooth hole insert.
PF: Black Duroplast FS 31 DIN 7708.

110025T CL WITH THREADED STUD

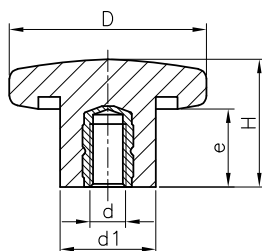


Code	D	H	d	e	h1	d1	Color
11002537501	37	30	M8	27	21	22	Black
11002544501	44	34	M10	33	24	26	Black
11002552501	52	36	M10	33	25	31	Black
11002560501	60	41	M12	38	27	36	Black
11002570503	70	44	M12	40	29	38	Black
11002580501	80	45	M16	55	30	37	Black

AVAILABLE ON REQUEST.
ASK MOQ.

Treated threaded steel stud.
PF: Black Duroplast FS 31 DIN 7708.

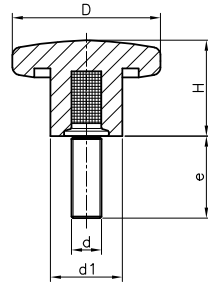
110026K KNOB SIMILAR DIN 6336 WITH THREADED INSERT



Code	D	H	d	e	d1(±1mm)	Color
11002620301	20	13	M4	8	11	Black
11002625301	25	16	M5	9	13	Black
11002632301	32	20	M6	10	14	Black
11002640301	40	25	M8	14	20	Black
11002650301	50	32	M10	17	20	Black
11002663301	63	40	M12	24	22	Black
11002680301	80	50	M16	27	36	Black

Threaded female brass insert.
PF: Black Duroplast FS 31 DIN 7708.

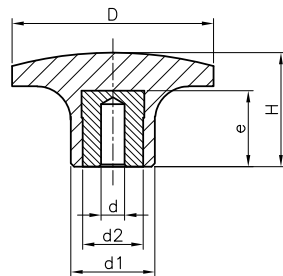
110026T KNOB SIMILAR DIN 6336 WITH THREADED STUD



Treated threaded steel stud.
PF: Black Duroplast FS 31 DIN 7708.

Code	D	H	d	e	d1(±1mm)	Color
11002620501	20	13	M4	15	11	Black
11002625501	25	16	M5	20	13	Black
11002632504	32	20	M6	15	14	Black
11002632501	32	20	M6	20	14	Black
11002632506	32	20	M6	25	14	Black
11002632509	32	20	M6	30	14	Black
11002632502	32	20	M6	40	14	Black
11002640503	40	25	M8	20	20	Black
11002640501	40	25	M8	27	20	Black
11002640514	40	25	M8	33	20	Black
11002640506	40	25	M8	40	20	Black
11002640502	40	25	M8	47	20	Black
11002650511	50	32	M10	20	20	Black
11002650512	50	32	M10	33	20	Black
11002650501	50	32	M10	44	20	Black
11002650502	50	32	M10	64	20	Black
11002663501	63	40	M12	40	22	Black
11002663502	63	40	M12	60	22	Black
11002680501	80	50	M16	55	35	Black
11002680502	80	50	M16	75	35	Black

110033H THREE PRONG KNOB WITH SMOOTH HOLE INSERT

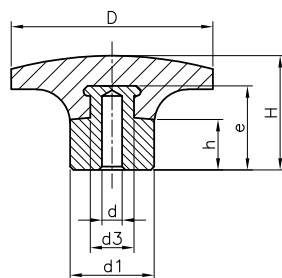


Treated steel insert.
PF: Black Duroplast FS 31 DIN 7708.

Code	D	H	d	e	d2	d1	Color
11003330305	30	17	5,25	12	8	11	Black
11003340305	40	22	5,25	14	10	15	Black
11003350305	50	26	5,25	17	14	20	Black
11003360305	60	30	5,25	22	18	25	Black

AVAILABLE ON REQUEST.
ASK MOQ.

110033S THREE PRONG KNOB WITH SMOOTH HOLE HUB

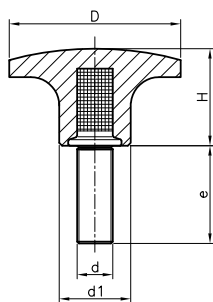


Zinc-plated steel hub.
PF: Black Duroplast FS 31 DIN 7708.

Code	D	H	d	e	d1	d3	h	Color
11003330601	30	18	5,25	14	11	8	6	Black
11003340601	40	24,5	5,25	18	15	11	8	Black
11003350601	50	29	5,25	22	20	15	11	Black
11003360601	60	34	5,25	29	25	19	15	Black

AVAILABLE ON REQUEST.
ASK MOQ.

110033T THREE PRONG KNOB WITH THREADED STUD

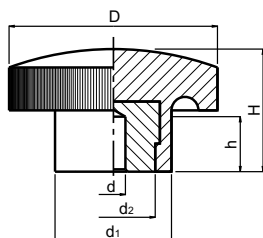


Code	D	H	d	e	d1	Color
11003330501	30	17	M6	25	11	Black
11003340511	40	22	M8	33	15	Black
11003350525	50	26	M10	33	20	Black
11003360525	60	30	M12	40	25	Black

AVAILABLE ON REQUEST.
ASK MOQ.

Treated threaded steel stud.
PF: Black Duroplast FS 31 DIN 7708.

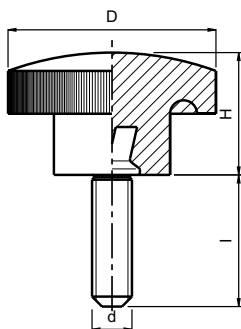
110065H CRD WITH SMOOTH HOLE INSERT



Code	D	H	d	h	d1	d2	Color
11006534301	34	20	5.25	15	19	12	Black

Treated steel insert.
PF: Black Duroplast FS 31 DIN 7708.
These parts can be supplied with the threaded insert. If you want them that way (min. 200 units), tell us the part in question, the size and the thread, but do not give us the code number to avoid errors. Each thread has a different code.

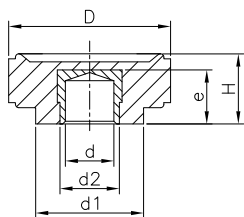
110065T CRD WITH THREADED STUD



Code	D	H	d	l	Color
11006534501	34	20	M6	25	Black

Treated threaded steel stud.
PF: Black Duroplast FS 31 DIN 7708.

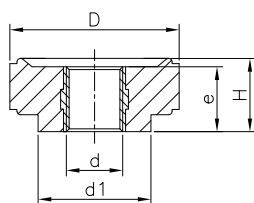
110095H LGN WITH SMOOTH HOLE INSERT



Code	D	H	d	e	d1	d2	Color
11009524301	24	13	5,25	8	14	10	Black
11009530301	30	15	5,25	12	20	12	Black

Treated steel smooth hole insert.
PF: Black Duroplast FS 31 DIN 7708.

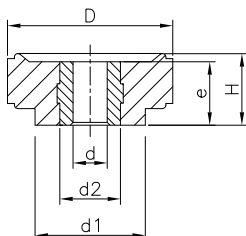
110095D LGN WITH THREADED THROUGH-HOLE INSERT



Code	D	H	d	e	d1	Color
11009524407	24	13	M6	11,5	14	Black
11009530409	30	15	M8	13,8	20	Black
11009530405	30	15	M10	13,8	20	Black

Brass threaded through hole insert.
PF: Black Duroplast FS 31 DIN 7708.

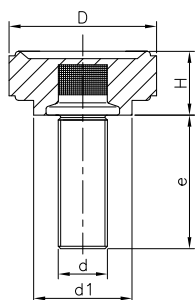
110095D* LGN WITH SMOOTH THROUGH-HOLE INSERT



Code	D	H	d	e	d1	d2	Color
11009524401	24	13	5,25	11,5	14	10	Black
11009530401	30	15	5,25	13,8	20	12	Black

Treated steel smooth through hole insert.
PF: Black Duroplast FS 31 DIN 7708.

110095T LGN WITH THREADED STUD



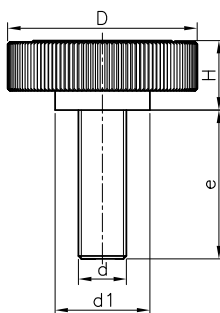
Code	D	H	d	e	d1	Color
11009524501	24	13	M6	25	14	Black
11009524543	24	13	M8	10	14	Black
11009524544	24	13	M8	27	14	Black
11009530501	30	15	M10	13	20	Black

Treated threaded steel stud.
PF: Black Duroplast FS 31 DIN 7708.

110015 KN WITH THREADED STUD



Treated threaded steel stud.
POM: Resina acetálica.

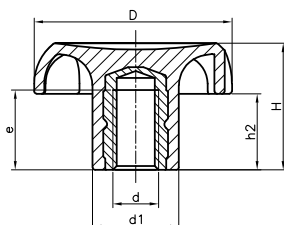


Black Code	Red Code	Grey Code	D	H	d1	d	e
11001509108	11001509408	11001509708	9.5	5	8	M3	8
11001509110	11001509410	11001509710	9.5	5	8	M3	10
11001509112	11001509412	11001509712	9.5	5	8	M3	12
11001513110	11001513410	11001513710	13	6	10	M4	10
11001513112	11001513412	11001513712	13	6	10	M4	12
11001513114	11001513414	11001513714	13	6	10	M4	14
11001516112	11001516412	11001516712	16	7	12	M5	12
11001516114	11001516414	11001516714	16	7	12	M5	14
11001516116	11001516416	11001516716	16	7	12	M5	16
11001519114	11001519414	11001519714	19	7	13	M6	14
11001519116	11001519416	11001519716	19	7	13	M6	16
11001519120	11001519420	11001519720	19	7	13	M6	20
11001526114	11001526414	11001526714	26	9	16	M6	14
11001526116	11001526416	11001526716	26	9	16	M6	16
11001526120	11001526420	11001526720	26	9	16	M6	20
11001527116	11001527416	11001527716	26	9	16	M8	16
11001527120	11001527420	11001527720	26	9	16	M8	20
11001527125	11001527425	11001527725	26	9	16	M8	25

110034K CAP WITH THREADED INSERT



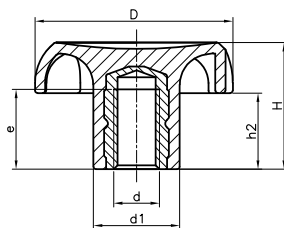
Threaded female brass insert.
PA: black or orange reinforced polyamide.



Code	D	H	d1	d	e	h2	Color
11003432301	32	20	13	M5	9	11	Black
11003432303	32	20	13	M6	10	11	Black
11003440301	40	25	17	M6	10	15	Black
11003440302	40	25	17	M8	14	15	Black
11003440303	40	25	17	M10	17	15	Black
11003432353	32	20	13	M5	9	11	Orange
11003432356	32	20	13	M6	10	11	Orange
11003440356	40	25	17	M6	10	15	Orange
11003440357	40	25	17	M8	14	15	Orange
11003440358	40	25	17	M10	17	15	Orange

 RAL 7021 Black
 RAL 2004 Orange

110034K CAP WITH STAINLESS STEEL THREADED INSERT



Code	D	H	d1	d	e	h2	Color
11003432302	32	20	13	M6	10	11	Black
11003440306	40	25	17	M8	14	15	Black

Threaded female stainless-steel AISI-303 insert.
PA: Black reinforced polyamide.
Available in orange color RAL 2004, ASK MOQ.

 RAL 7021 Black

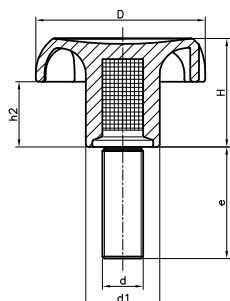


110034T CAP WITH THREADED STUD



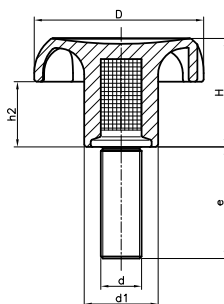
Treated threaded steel stud.
PA: Black or orange reinforced polyamide.

 RAL 7021 Black
 RAL 2004 Orange



Black Code	Orange Code	D	H	d1	d	e	h2
11003432505	11003432545	32	20	13.5	M5	20	11
11003432503	11003432543	32	20	13.5	M6	10	11
11003432501	11003432541	32	20	13.5	M6	20	11
11003432504	11003432544	32	20	13.5	M6	30	11
11003432506	11003432546	32	20	13.5	M6	40	11
11003432508	11003432547	32	20	13.5	M8	20	11
11003432502	11003432542	32	20	13.5	M8	27	11
11003432509	11003432548	32	20	13.5	M8	47	11
11003440511	11003440551	40	25	17	M6	15	15
11003440501	11003440541	40	25	17	M6	20	15
11003440504	11003440544	40	25	17	M6	30	15
11003440505	11003440545	40	25	17	M6	40	15
11003440515	11003440555	40	25	17	M8	15	15
11003440506	11003440546	40	25	17	M8	20	15
11003440507	11003440547	40	25	17	M8	33	15
11003440508	11003440548	40	25	17	M8	47	15
11003440509	11003440549	40	25	17	M10	20	15
11003440503	11003440543	40	25	17	M10	33	15
11003440510	11003440550	40	25	17	M10	44	15

110034T CAP WITH STAINLESS STEEL THREADED STUD



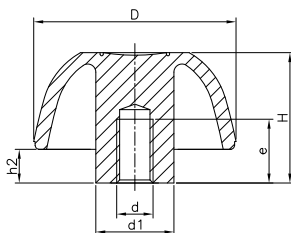
Code	D	H	d1	d	e	h2	Color
11003432507	32	20	13,5	M6	16	11	Black
11003440521	40	25	17	M6	16	15	Black
11003440518	40	25	17	M8	20	15	Black
11003440514	40	25	17	M8	25	15	Black

Stainless-steel AISI-304 threaded stud.
PA: Black reinforced polyamide.
Available in orange color RAL 2004, ASK MOQ.

 RAL 7021 Black



110038C MTC WITH MOULDED THREAD



Code	D	H	d1	d	e	h2	Color
11003825101	25	17	12	M5	12	6	Black
11003832101	32	20	14	M6	15	6	Black
11003840101	40	25	17	M8	20	7	Black
11003850101	50	32	19	M10	24	8	Black

Molded thread.

PA: Reinforced polyamide.

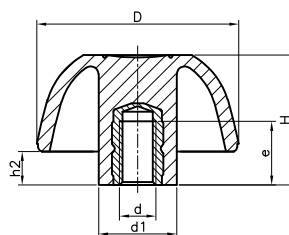
Available in orange, red* and blue*.

*Ask for MOQ. Another colors, ask.

110038K MTC WITH THREADED INSERT



	RAL 7021 Black
	RAL 2004 Orange
	RAL 3001 Red
	RAL 5005 Blue



Threaded female brass insert.

PA: Reinforced polyamide.

Available in black, orange, red* and blue*.

*Ask for MOQ.

Other colors, ask.

Black Code	Orange Code	Blue Code	Red Code	D	H	d1	d	e	h2
11003825302	11003825342	11003825346	11003825349	25	17	12	M4	8,5	6
11003825303	11003825343	11003825347	11003825350	25	17	12	M5	9	6
11003825301	11003825341	11003825348	11003825351	25	17	12	M6	10	6
11003832303	11003832343	11003832347	11003832348	32	20	14	M5	9	6
11003832301	11003832341	11003832350	11003832349	32	20	14	M6	10	6
11003840301	11003840341	11003840346	11003840348	40	25	17	M6	10	7
11003840302	11003840342	11003840350	11003840349	40	25	17	M8	14	7
11003840303	11003840343	11003840347	11003840351	40	25	17	M10	17	7
11003850301	11003850341	11003850347	11003850350	50	32	19	M8	14	8
11003850302	11003850342	11003850348	11003850351	50	32	19	M10	17	8
11003850308	11003850345	11003850349	11003850352	50	32	19	M12	19	8
11003863301	11003863341	11003863346	11003863349	63	40	23	M10	17	11
11003863302	11003863342	11003863347	11003863350	63	40	23	M12	19	11
11003863306	11003863344	11003863348	11003863351	63	40	23	M16	27	11

110038K MTC WITH STAINLESS STEEL THREADED INSERT



INOX
Stainless
Steel

Threaded female stainless-steel AISI-303 insert.

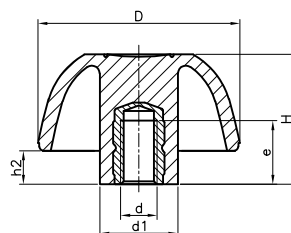
PA: Reinforced polyamide.

Available in orange, red* and blue*.

*Ask for MOQ.

Other colors and sizes, ask.

Code	D	H	d1	d	e	h2	Color
11003832302	32	20	14	M6	10	6	Black
11003840306	40	25	17	M8	14	7	Black
11003850304	50	32	19	M10	17	8	Black

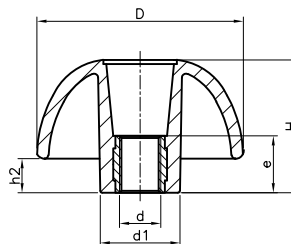


RAL 7021 Black

110038D MTC WITH THREADED THROUGH-HOLE INSERT



	RAL 7021 Black
	RAL 2004 Orange
	RAL 3001 Red
	RAL 5005 Blue



Brass threaded through hole insert.

PA: Reinforced polyamide.

Available in black, orange, red* and blue*.

*Ask for MOQ.

Other colors, ask.

Black Code	Orange Code	Blue Code	Red Code	D	H	d1	d	e	h2
11003825404	11003825444	11003825447	11003825450	25	17	12	M4	11,5	5
11003825405	11003825445	11003825448	11003825451	25	17	12	M5	11,5	5
11003825401	11003825441	11003825449	11003825452	25	17	12	M6	11,5	5
11003832405	11003832445	11003832443	11003832447	32	20	14	M5	11,5	6
11003832401	11003832441	11003832446	11003832448	32	20	14	M6	11,5	6
11003840401	11003840441	11003840446	11003840449	40	25	17	M6	11,5	7
11003840403	11003840443	11003840447	11003840450	40	25	17	M8	13,8	7
11003840402	11003840442	11003840448	11003840451	40	25	17	M10	13,8	7
11003850401	11003850441	11003850447	11003850450	50	32	19	M8	13,8	8
11003850402	11003850443	11003850448	11003850451	50	32	19	M10	13,8	8
11003850405	11003850445	11003850449	11003850452	50	32	19	M12	13,8	8
11003863401	11003863441	11003863447	11003863449	63	40	23	M10	13,8	11
11003863402	11003863442	11003863448	11003863450	63	40	23	M12	13,8	11

110038D INOX MTC WITH THREADED THROUGH-HOLE STAINLESS STEEL INSERT



INOX
Stainless
Steel

Code	D	H	d1	d	e	h2	Color
11003825420	25	17	12	M6	11.5	5	Black
11003832403	32	20	14	M6	11.5	6	Black
11003840420	40	25	17	M6	11.5	7	Black
11003840421	40	25	17	M8	13.8	7	Black
11003850420	50	32	19	M8	13.8	8	Black
11003850421	50	32	19	M10	13.8	8	Black
11003863420	63	40	23	M10	13.8	11	Black

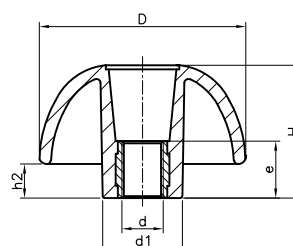
Stainless steel AISI-303 threaded through-hole insert. PA: Reinforced polyamide.

Available in orange, red* and blue*.

*Ask for MOQ.

Other colors and sizes, ask.

 RAL 7021 Black



110038T MTC WITH THREADED STUD



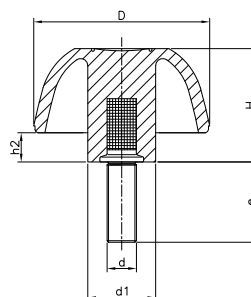
	RAL 7021 Black
	RAL 2004 Orange
	RAL 3001 Red
	RAL 5005 Blue

Treated threaded steel stud.

PA: Reinforced polyamide.

Available in black, orange, red* and blue*.

*Ask for MOQ. Other colors, ask.

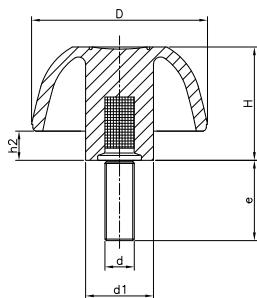


Black Code	Orange Code	Blue Code	Red Code	D	H	d1	d	e	h2
11003825502	11003825542	11003825549	11003825552	25	17	12	M4	15	6
11003825503	11003825543	11003825550	11003825553	25	17	12	M5	20	6
11003825501	11003825541	11003825551	11003825554	25	17	12	M6	20	6
11003832515	11003832548	11003832554	11003832560	32	20	14	M5	20	6
11003832503	11003832543	11003832555	11003832561	32	20	14	M6	10	6
11003832501	11003832541	11003832556	11003832562	32	20	14	M6	20	6
11003832504	11003832544	11003832557	11003832563	32	20	14	M6	30	6
11003832502	11003832542	11003832558	11003832564	32	20	14	M8	27	6
11003832516	11003832549	11003832559	11003832565	32	20	14	M8	40	6
11003840511	11003840552	11003840563	11003840577	40	25	17	M6	15	7
11003840501	11003840541	11003840564	11003840573	40	25	17	M6	20	7
11003840504	11003840544	11003840565	11003840578	40	25	17	M6	30	7
11003840505	11003840545	11003840566	11003840579	40	25	17	M6	40	7
11003840515	11003840553	11003840567	11003840580	40	25	17	M8	15	7
11003840506	11003840546	11003840568	11003840581	40	25	17	M8	20	7
11003840507	11003840547	11003840569	11003840582	40	25	17	M8	33	7
11003840508	11003840548	11003840570	11003840583	40	25	17	M8	47	7
11003840509	11003840549	11003840574	11003840584	40	25	17	M10	20	7
11003840503	11003840543	11003840575	11003840585	40	25	17	M10	33	7
11003840510	11003840542	11003840576	11003840586	40	25	17	M10	44	7
11003850505	11003850547	11003850556	11003850562	50	32	19	M8	15	8
11003850502	11003850542	11003850557	11003850563	50	32	19	M8	27	8
11003850501	11003850541	11003850524	11003850564	50	32	19	M8	40	8
11003850503	11003850543	11003850558	11003850565	50	32	19	M10	33	8
11003850504	11003850544	11003850559	11003850566	50	32	19	M10	50	8
11003850516	11003850551	11003850560	11003850567	50	32	19	M12	40	8
11003850517	11003850552	11003850561	11003850568	50	32	19	M12	60	8
11003863503	11003863543	11003863551	11003863554	63	40	23	M10	33	11
11003863504	11003863544	11003863552	11003863555	63	40	23	M12	40	11
11003863501	11003863545	11003863550	11003863553	63	40	23	M16	55	11

110038T MTC WITH THREADED STAINLESS STEEL STUD



INOX
Stainless
Steel



Code	D	H	d1	d	e	h2	Color
11003825511	25	17	12	M4	12	6	Black
11003832523	32	20	14	M5	16	6	Black
11003832507	32	20	14	M6	16	6	Black
11003840521	40	25	17	M6	16	8	Black
11003840518	40	25	17	M8	20	8	Black
11003840539	40	25	17	M8	25	8	Black
11003850508	50	32	19	M10	20	9	Black
11003850509	50	32	19	M10	30	9	Black
11003863505	63	40	23	M12	30	12	Black

Stainless-steel A2 threaded stud.

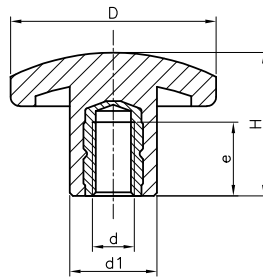
PA: Black reinforced polyamide.

Available in orange, red* and blue*.

*Ask for MOQ. Other colors, ask.

 RAL 7021 Black

110039K STARPLAST WITH THREADED INSERT

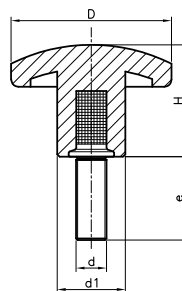


Code	D	H	d1	d	e	Color
11003933301	33	22	14	M6	10	Black
11003933302	33	22	14	M8	14	Black
11003933341	33	22	14	M6	10	Orange
11003933342	33	22	14	M8	14	Orange

Threaded female brass insert.
PA: Reinforced polyamide.
Available in black or orange.

	RAL 7021 Black
	RAL 2004 Orange

110039T STARPLAST WITH THREADED STUD

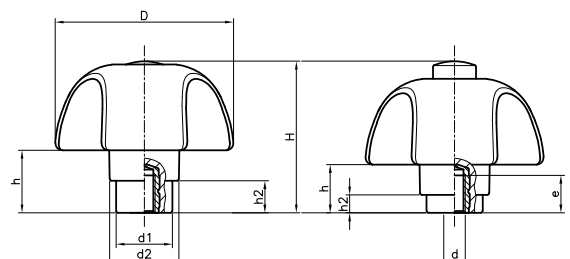


Code	D	H	d	e	d1	Color
11003933504	33	22	M6	15	14	Black
11003933501	33	22	M6	20	14	Black
11003933505	33	22	M6	30	14	Black
11003933506	33	22	M6	40	14	Black
11003933507	33	22	M8	20	14	Black
11003933502	33	22	M8	27	14	Black
11003933508	33	22	M8	47	14	Black
11003933544	33	22	M6	15	14	Orange
11003933541	33	22	M6	20	14	Orange
11003933545	33	22	M6	30	14	Orange
11003933546	33	22	M6	40	14	Orange
11003933547	33	22	M8	20	14	Orange
11003933542	33	22	M8	27	14	Orange
11003933548	33	22	M8	47	14	Orange

Treated threaded steel stud.
PA: Reinforced polyamide.
Available in black or orange.

	RAL 7021 Black
	RAL 2004 Orange

110068K SAFETY WITH THREADED INSERT



REST POSITION

WORKING POSITION

D	h	h2
50	17,5	9

D	h	h2
50	13,5	5



Black reinforced polyamide with caps in colours: black, orange, red, blue, yellow and grey similar to the RAL indicated below.

Threaded female brass insert, spring in stainless-steel.

Great knob for safety applications.
This knob only turns when pressed downward and turned simultaneously to avoid involuntary turning.

	RAL 7021 Black
	RAL 2004 Orange
	RAL 3001 Red
	RAL 5005 Blue
	RAL 1021 Yellow
	RAL 7038 Grey

Black Cap	Orange Cap	Red Cap	Blue Cap	Yellow Cap	Grey Cap	D	H	d	e	d1	d2	Body
11006853001	11006853006	11006853009	11006853012	11006853015	11006853018	50	42	M6	10	16	19,5	Black
11006853002	11006853007	11006853010	11006853013	11006853016	11006853019	50	42	M8	14	16	19,5	Black
11006853003	11006853008	11006853011	11006853014	11006853017	11006853020	50	42	M10	13	16	19,5	Black

Black Cap	Orange Cap	Red Cap	Blue Cap	Yellow Cap	Grey Cap	D	H	d	e	d1	d2	Body
11006853024	11006853021	11006853027	11006853030	11006853033	11006853036	50	42	M6	10	16	19,5	Orange
11006853025	11006853022	11006853028	11006853031	11006853034	11006853037	50	42	M8	14	16	19,5	Orange
11006853026	11006853023	11006853029	11006853032	11006853035	11006853038	50	42	M10	13	16	19,5	Orange
11006853042	11006853045	11006853039	11006853048	11006853051	11006853054	50	42	M6	10	16	19,5	Red
11006853043	11006853046	11006853040	11006853049	11006853052	11006853055	50	42	M8	14	16	19,5	Red
11006853044	11006853047	11006853041	11006853050	11006853053	11006853056	50	42	M10	13	16	19,5	Red
11006853060	11006853063	11006853066	11006853057	11006853069	11006853072	50	42	M6	10	16	19,5	Blue
11006853061	11006853064	11006853067	11006853058	11006853070	11006853073	50	42	M8	14	16	19,5	Blue
11006853062	11006853065	11006853068	11006853059	11006853071	11006853074	50	42	M10	13	16	19,5	Blue
11006853078	11006853081	11006853084	11006853087	11006853075	11006853090	50	42	M6	10	16	19,5	Yellow
11006853079	11006853082	11006853085	11006853088	11006853076	11006853091	50	42	M8	14	16	19,5	Yellow
11006853080	11006853083	11006853086	11006853089	11006853077	11006853092	50	42	M10	13	16	19,5	Yellow
11006853096	11006853099	11006853102	11006853105	11006853108	11006853093	50	42	M6	10	16	19,5	Grey
11006853097	11006853100	11006853103	11006853106	11006853109	11006853094	50	42	M8	14	16	19,5	Grey
11006853098	11006853101	11006853104	11006853107	11006853110	11006853095	50	42	M10	13	16	19,5	Grey

110068K SAFETY WITH THREADED STAINLESS STEEL INSERT



Black reinforced polyamide with caps in colours: black, orange, red, blue, yellow and grey similar to the RAL indicated below.

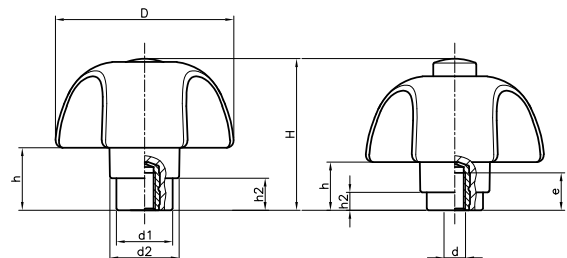
Threaded female stainless steel AISI-303 insert, spring in stainless-steel.

Great knob for safety applications.

This knob only turns when pressed downward and turned simultaneously to avoid involuntary turning.

Other colors and sizes, ask.

	RAL 7021	Black
	RAL 2004	Orange
	RAL 3001	Red
	RAL 5005	Blue
	RAL 1021	Yellow
	RAL 7038	Grey



REST POSITION

D	h	h2
50	17,5	9

WORKING POSITION

D	h	h2
50	13,5	5



Black Cap	Orange Cap	Red Cap	Blue Cap	Yellow Cap	Grey Cap	D	H	d	e	d1	d2	Body
11006853004	11006853111	11006853113	11006853115	11006853117	11006853119	50	42	M6	10	16	19,5	Black
11006853005	11006853112	11006853114	11006853116	11006853118	11006853120	50	42	M8	14	16	19,5	Black
11006853123	11006853121	11006853125	11006853127	11006853129	11006853131	50	42	M6	10	16	19,5	Orange
11006853124	11006853122	11006853126	11006853128	11006853130	11006853132	50	42	M8	14	16	19,5	Orange
11006853135	11006853137	11006853133	11006853139	11006853141	11006853143	50	42	M6	10	16	19,5	Red
11006853136	11006853138	11006853134	11006853140	11006853142	11006853144	50	42	M8	14	16	19,5	Red
11006853147	11006853149	11006853151	11006853145	11006853153	11006853155	50	42	M6	10	16	19,5	Blue
11006853148	11006853150	11006853152	11006853146	11006853154	11006853156	50	42	M8	14	16	19,5	Blue
11006853159	11006853161	11006853163	11006853165	11006853157	11006853167	50	42	M6	10	16	19,5	Yellow
11006853160	11006853162	11006853164	11006853166	11006853158	11006853168	50	42	M8	14	16	19,5	Yellow
11006853171	11006853173	11006853175	11006853177	11006853179	11006853169	50	42	M6	10	16	19,5	Grey
11006853172	11006853174	11006853176	11006853178	11006853180	11006853170	50	42	M8	14	16	19,5	Grey



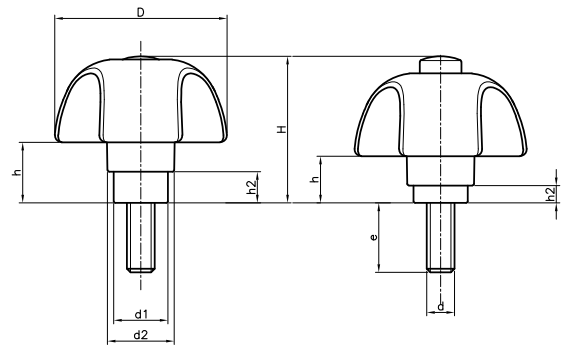
Black reinforced polyamide, with caps in colours: black, orange, red, blue, yellow and grey, similar to the RAL indicated below.

Treated threaded steel stud, spring in stainless-steel.

Great knob for safety applications.

This knob only turns when pressed downward and turned simultaneously to avoid involuntary turning.

Other colors, ask.



REST POSITION

D	h	h2
50	17,5	9

WORKING POSITION

D	h	h2
50	13,5	5



	RAL 7021 Black
	RAL 2004 Orange
	RAL 3001 Red
	RAL 5005 Blue
	RAL 1021 Yellow
	RAL 7038 Grey

Black Cap	Orange Cap	Red Cap	Blue Cap	Yellow Cap	Grey Cap	D	H	d	e	d1	d2	Body
11006855001	11006855015	11006855026	11006855037	11006855048	11006855059	50	42	M6	15	16	19,5	Black
11006855002	11006855016	11006855027	11006855038	11006855049	11006855060	50	42	M6	20	16	19,5	Black
11006855003	11006855017	11006855028	11006855039	11006855050	11006855061	50	42	M6	30	16	19,5	Black
11006855004	11006855018	11006855029	11006855040	11006855051	11006855062	50	42	M6	40	16	19,5	Black
11006855014	11006855025	11006855036	11006855047	11006855058	11006855069	50	42	M8	15	16	19,5	Black
11006855005	11006855019	11006855030	11006855041	11006855052	11006855063	50	42	M8	20	16	19,5	Black
11006855006	11006855020	11006855031	11006855042	11006855053	11006855064	50	42	M8	33	16	19,5	Black
11006855007	11006855021	11006855032	11006855043	11006855054	11006855065	50	42	M8	47	16	19,5	Black
11006855008	11006855022	11006855033	11006855044	11006855055	11006855066	50	42	M10	20	16	19,5	Black
11006855009	11006855023	11006855034	11006855045	11006855056	11006855067	50	42	M10	30	16	19,5	Black
11006855010	11006855024	11006855035	11006855046	11006855057	11006855068	50	42	M10	40	16	19,5	Black
11006855081	11006855070	11006855092	11006855103	11006855114	11006855125	50	42	M6	15	16	19,5	Orange
11006855082	11006855071	11006855093	11006855104	11006855115	11006855126	50	42	M6	20	16	19,5	Orange
11006855083	11006855072	11006855094	11006855105	11006855116	11006855127	50	42	M6	30	16	19,5	Orange
11006855084	11006855073	11006855095	11006855106	11006855117	11006855128	50	42	M6	40	16	19,5	Orange
11006855091	11006855080	11006855102	11006855113	11006855124	11006855135	50	42	M8	15	16	19,5	Orange
11006855085	11006855074	11006855096	11006855107	11006855118	11006855129	50	42	M8	20	16	19,5	Orange
11006855086	11006855075	11006855097	11006855108	11006855119	11006855130	50	42	M8	33	16	19,5	Orange
11006855087	11006855076	11006855098	11006855109	11006855120	11006855131	50	42	M8	47	16	19,5	Orange
11006855088	11006855077	11006855099	11006855110	11006855121	11006855132	50	42	M10	20	16	19,5	Orange
11006855089	11006855078	11006855100	11006855111	11006855122	11006855133	50	42	M10	30	16	19,5	Orange
11006855090	11006855079	11006855101	11006855112	11006855123	11006855134	50	42	M10	40	16	19,5	Orange
11006855147	11006855158	11006855136	11006855169	11006855180	11006855191	50	42	M6	15	16	19,5	Red
11006855148	11006855159	11006855137	11006855170	11006855181	11006855192	50	42	M6	20	16	19,5	Red
11006855149	11006855160	11006855138	11006855171	11006855182	11006855193	50	42	M6	30	16	19,5	Red
11006855150	11006855161	11006855139	11006855172	11006855183	11006855194	50	42	M6	40	16	19,5	Red
11006855157	11006855168	11006855146	11006855179	11006855190	11006855201	50	42	M8	15	16	19,5	Red
11006855151	11006855162	11006855140	11006855173	11006855184	11006855195	50	42	M8	20	16	19,5	Red
11006855152	11006855163	11006855141	11006855174	11006855185	11006855196	50	42	M8	33	16	19,5	Red
11006855153	11006855164	11006855142	11006855175	11006855186	11006855197	50	42	M8	47	16	19,5	Red
11006855154	11006855165	11006855143	11006855176	11006855187	11006855198	50	42	M10	20	16	19,5	Red
11006855155	11006855166	11006855144	11006855177	11006855188	11006855199	50	42	M10	30	16	19,5	Red
11006855156	11006855167	11006855145	11006855178	11006855189	11006855200	50	42	M10	40	16	19,5	Red

Black Cap	Orange Cap	Red Cap	Blue Cap	Yellow Cap	Grey Cap	D	H	d	e	d1	d2	Body
11006855213	11006855224	11006855235	11006855202	11006855246	11006855257	50	42	M6	15	16	19,5	Blue
11006855214	11006855225	11006855236	11006855203	11006855247	11006855258	50	42	M6	20	16	19,5	Blue
11006855215	11006855226	11006855237	11006855204	11006855248	11006855259	50	42	M6	30	16	19,5	Blue
11006855216	11006855227	11006855238	11006855205	11006855249	11006855260	50	42	M6	40	16	19,5	Blue
11006855223	11006855234	11006855245	11006855212	11006855256	11006855267	50	42	M8	15	16	19,5	Blue
11006855217	11006855228	11006855239	11006855206	11006855250	11006855261	50	42	M8	20	16	19,5	Blue
11006855218	11006855229	11006855240	11006855207	11006855251	11006855262	50	42	M8	33	16	19,5	Blue
11006855219	11006855230	11006855241	11006855208	11006855252	11006855263	50	42	M8	47	16	19,5	Blue
11006855220	11006855231	11006855242	11006855209	11006855253	11006855264	50	42	M10	20	16	19,5	Blue
11006855221	11006855232	11006855243	11006855210	11006855254	11006855265	50	42	M10	30	16	19,5	Blue
11006855222	11006855233	11006855244	11006855211	11006855255	11006855266	50	42	M10	40	16	19,5	Blue
11006855279	11006855290	11006855301	11006855312	11006855268	11006855323	50	42	M6	15	16	19,5	Yellow
11006855280	11006855291	11006855302	11006855313	11006855269	11006855324	50	42	M6	20	16	19,5	Yellow
11006855281	11006855292	11006855303	11006855314	11006855270	11006855325	50	42	M6	30	16	19,5	Yellow
11006855282	11006855293	11006855304	11006855315	11006855271	11006855326	50	42	M6	40	16	19,5	Yellow
11006855289	11006855300	11006855311	11006855322	11006855278	11006855333	50	42	M8	15	16	19,5	Yellow
11006855283	11006855294	11006855305	11006855316	11006855272	11006855327	50	42	M8	20	16	19,5	Yellow
11006855284	11006855295	11006855306	11006855317	11006855273	11006855328	50	42	M8	33	16	19,5	Yellow
11006855285	11006855296	11006855307	11006855318	11006855274	11006855329	50	42	M8	47	16	19,5	Yellow
11006855286	11006855297	11006855308	11006855319	11006855275	11006855330	50	42	M10	20	16	19,5	Yellow
11006855287	11006855298	11006855309	11006855320	11006855276	11006855331	50	42	M10	30	16	19,5	Yellow
11006855288	11006855299	11006855310	11006855321	11006855277	11006855332	50	42	M10	40	16	19,5	Yellow
11006855345	11006855356	11006855367	11006855378	11006855389	11006855334	50	42	M6	15	16	19,5	Grey
11006855346	11006855357	11006855368	11006855379	11006855390	11006855335	50	42	M6	20	16	19,5	Grey
11006855347	11006855358	11006855369	11006855380	11006855391	11006855336	50	42	M6	30	16	19,5	Grey
11006855348	11006855359	11006855370	11006855381	11006855392	11006855337	50	42	M6	40	16	19,5	Grey
11006855355	11006855366	11006855377	11006855388	11006855399	11006855344	50	42	M8	15	16	19,5	Grey
11006855349	11006855360	11006855371	11006855382	11006855393	11006855338	50	42	M8	20	16	19,5	Grey
11006855350	11006855361	11006855372	11006855383	11006855394	11006855339	50	42	M8	33	16	19,5	Grey
11006855351	11006855362	11006855373	11006855384	11006855395	11006855340	50	42	M8	47	16	19,5	Grey
11006855352	11006855363	11006855374	11006855385	11006855396	11006855341	50	42	M10	20	16	19,5	Grey
11006855353	11006855364	11006855375	11006855386	11006855397	11006855342	50	42	M10	30	16	19,5	Grey
11006855354	11006855365	11006855376	11006855387	11006855398	11006855343	50	42	M10	40	16	19,5	Grey

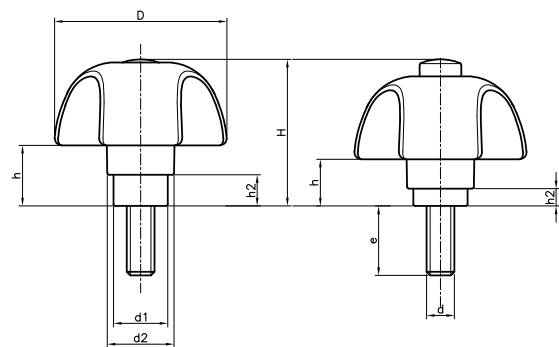
110068T SAFETY WITH STAINLESS STEEL THREADED STUD



INOX
Stainless
Steel

Black reinforced polyamide, with caps in colours: black, orange, red, blue, yellow and grey, similar to the RAL indicated below.
Threaded Stainless-steel A2 stud, spring in stainless-steel.
Great knob for safety applications.
This knob only turns when pressed downward and turned simultaneously to avoid involuntary turning.
Other colors and sizes, ask.

Black	RAL 7021 Black
Orange	RAL 2004 Orange
Red	RAL 3001 Red
Blue	RAL 5005 Blue
Yellow	RAL 1021 Yellow
Grey	RAL 7038 Grey



REST POSITION

WORKING POSITION

D	h	h2
50	17,5	9

D	h	h2
50	13,5	5



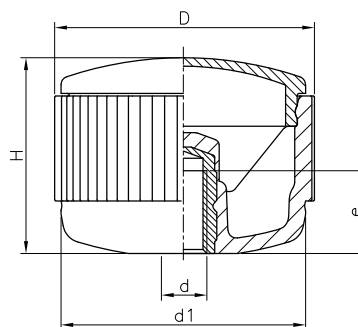
Black Cap	Orange Cap	Red Cap	Blue Cap	Yellow Cap	Grey Cap	D	H	d	e	d1	d2	Body
11006855011	11006855400	11006855403	11006855406	11006855409	11006855412	50	42	M6	16	16	19,5	Black
11006855012	11006855401	11006855404	11006855407	11006855410	11006855413	50	42	M8	20	16	19,5	Black
11006855013	11006855402	11006855405	11006855408	11006855411	11006855414	50	42	M8	40	16	19,5	Black

Black Cap	Orange Cap	Red Cap	Blue Cap	Yellow Cap	Grey Cap	D	H	d	e	d1	d2	Body
11006855418	11006855415	11006855421	11006855424	11006855427	11006855430	50	42	M6	15	16	19,5	Orange
11006855419	11006855416	11006855422	11006855425	11006855428	11006855431	50	42	M8	20	16	19,5	Orange
11006855420	11006855417	11006855423	11006855426	11006855429	11006855432	50	42	M8	40	16	19,5	Orange
11006855436	11006855439	11006855433	11006855442	11006855445	11006855448	50	42	M6	15	16	19,5	Red
11006855437	11006855440	11006855434	11006855443	11006855446	11006855449	50	42	M8	20	16	19,5	Red
11006855438	11006855441	11006855435	11006855444	11006855447	11006855450	50	42	M8	40	16	19,5	Red
11006855454	11006855457	11006855460	11006855451	11006855463	11006855466	50	42	M6	15	16	19,5	Blue
11006855455	11006855458	11006855461	11006855452	11006855464	11006855467	50	42	M8	20	16	19,5	Blue
11006855456	11006855459	11006855462	11006855453	11006855465	11006855468	50	42	M8	40	16	19,5	Blue
11006855472	11006855475	11006855478	11006855481	11006855469	11006855484	50	42	M6	15	16	19,5	Yellow
11006855473	11006855476	11006855479	11006855482	11006855470	11006855485	50	42	M8	20	16	19,5	Yellow
11006855474	11006855477	11006855480	11006855483	11006855471	11006855486	50	42	M8	40	16	19,5	Yellow
11006855490	11006855493	11006855496	11006855499	11006855502	11006855487	50	42	M6	15	16	19,5	Grey
11006855491	11006855494	11006855497	11006855500	11006855503	11006855488	50	42	M8	20	16	19,5	Grey
11006855492	11006855495	11006855498	11006855501	11006855504	11006855489	50	42	M8	40	16	19,5	Grey

110096K CONTACT KNOB WITH THREADED INSERT



Threaded female brass insert.
PA: Black reinforced polyamide.
Caps in black, orange, red, blue, yellow and grey,
similar to the RAL indicated below.
Supplied with the cap unassembled.
Other colors, ask.



	RAL 7021 Black
	RAL 2004 Orange
	RAL 3001 Red
	RAL 5005 Blue
	RAL 1021 Yellow
	RAL 7038 Grey

Black Cap	Orange Cap	Red Cap	Blue Cap	Yellow Cap	Grey Cap	D	H	d	d1	e	Body
11009641301	11009644301	11009645301	11009642301	11009643301	11009649301	40	30	M6	37	10	Black
11009641302	11009644302	11009645302	11009642302	11009643302	11009649302	40	30	M8	37	14	Black
11009641303	11009644303	11009645303	11009642303	11009643303	11009649303	40	30	M10	37	17	Black
11009651302	11009654302	11009655302	11009652302	11009653302	11009659302	50	37	M8	46	14	Black
11009651303	11009654303	11009655303	11009652303	11009653303	11009659303	50	37	M10	46	17	Black

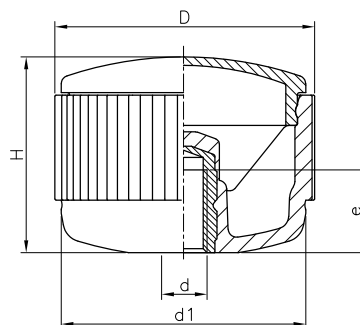
110096K

CONTACT KNOB WITH STAINLESS STEEL THREADED INSERT



	RAL 7021	Black
	RAL 2004	Orange
	RAL 3001	Red
	RAL 5005	Blue
	RAL 1021	Yellow
	RAL 7038	Grey

INOX
Stainless Steel



Stainless steel female threaded insert AISI-303.
PA: Black reinforced polyamide.
Caps in black, orange, red, blue, yellow and grey,
similar to the RAL indicated below.
Supplied with the cap unassembled.
Other colors and sizes, ask.

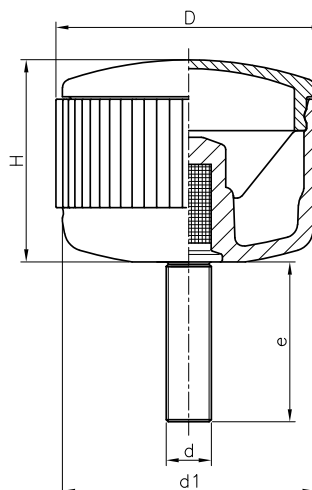
Black Cap	Orange Cap	Red Cap	Blue Cap	Yellow Cap	Grey Cap	D	H	d	d1	e	Body
11009641307	11009644307	11009645307	11009642307	11009643307	11009649307	40	30	M6	37	10	Black
11009641308	11009644308	11009645308	11009642308	11009643308	11009649308	40	30	M8	37	14	Black
11009651309	11009654309	11009655309	11009652309	11009653309	11009659309	50	37	M8	46	14	Black
11009651310	11009654310	11009655310	11009652310	11009653310	11009659310	50	37	M10	46	17	Black

110096T

CONTACT KNOB WITH THREADED STUD



	RAL 7021	Black
	RAL 2004	Orange
	RAL 3001	Red
	RAL 5005	Blue
	RAL 1021	Yellow
	RAL 7038	Grey

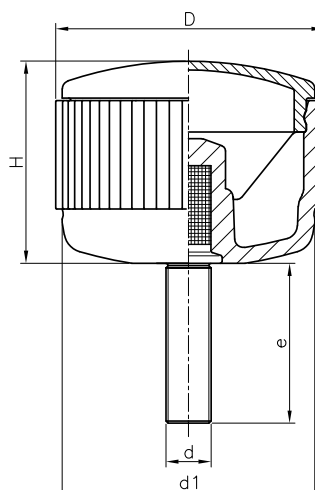


Treated threaded steel stud.
PA: Black reinforced polyamide.
Caps in black, orange, red, blue, yellow and
grey, similar to the RAL indicated below.
Supplied with the cap unassembled.
Other colors and sizes, ask.

Black Cap	Orange Cap	Red Cap	Blue Cap	Yellow Cap	Grey Cap	D	H	d1	d	e	Body
11009641501	11009644501	11009645501	11009642501	11009643501	11009649501	40	30	37	M6	15	Black
11009641503	11009644503	11009645503	11009642503	11009643503	11009649503	40	30	37	M6	30	Black
11009641504	11009644504	11009645504	11009642504	11009643504	11009649504	40	30	37	M6	40	Black
11009641505	11009644505	11009645505	11009642505	11009643505	11009649505	40	30	37	M8	15	Black
11009641507	11009644507	11009645507	11009642507	11009643507	11009649507	40	30	37	M8	33	Black
11009641509	11009644509	11009645509	11009642509	11009643509	11009649509	40	30	37	M8	47	Black
11009641510	11009644510	11009645510	11009642510	11009643510	11009649510	40	30	37	M10	20	Black
11009641511	11009644511	11009645511	11009642511	11009643511	11009649511	40	30	37	M10	33	Black
11009641512	11009644512	11009645512	11009642512	11009643512	11009649512	40	30	37	M10	44	Black
11009651501	11009654501	11009655501	11009652501	11009653501	11009659501	50	37	46	M8	15	Black
11009651502	11009654502	11009655502	11009652502	11009653502	11009659502	50	37	46	M8	27	Black
11009651503	11009654503	11009655503	11009652503	11009653503	11009659503	50	37	46	M8	40	Black
11009651504	11009654504	11009655504	11009652504	11009653504	11009659504	50	37	46	M10	20	Black
11009651505	11009654505	11009655505	11009652505	11009653505	11009659505	50	37	46	M10	33	Black
11009651506	11009654506	11009655506	11009652506	11009653506	11009659506	50	37	46	M10	50	Black
11009651507	11009654507	11009655507	11009652507	11009653507	11009659507	50	37	46	M12	40	Black
11009651508	11009654508	11009655508	11009652508	11009653508	11009659508	50	37	46	M12	60	Black

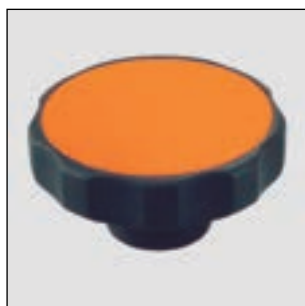
110096T**CONTACT KNOB WITH STAINLESS STEEL THREADED STUD**
INOX
Stainless
Steel

Threaded stainless steel stud A2.
PA: Black reinforced polyamide.
Caps in black, orange, red, blue, yellow and
grey, similar to the RAL indicated below.
Supplied with the cap unassembled.
Other colors and sizes, ask.

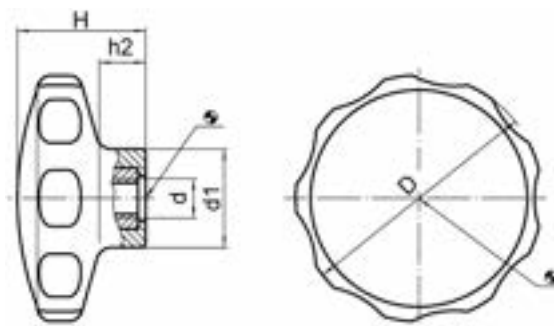


	RAL 7021 Black
	RAL 2004 Orange
	RAL 3001 Red
	RAL 5005 Blue
	RAL 1021 Yellow
	RAL 7038 Grey

Black Cap	Orange Cap	Red Cap	Blue Cap	Yellow Cap	Grey Cap	D	H	d1	d	e	Body
11009641524	11009644524	11009645524	11009642524	11009643524	11009649524	40	30	37	M6	10	Black
11009641525	11009644525	11009645525	11009642525	11009643525	11009649525	40	30	37	M6	20	Black
11009641526	11009644526	11009645526	11009642526	11009643526	11009649526	40	30	37	M8	16	Black
11009641527	11009644527	11009645527	11009642527	11009643527	11009649527	40	30	37	M8	25	Black
11009651520	11009654520	11009655520	11009652520	11009653520	11009659520	50	37	46	M8	20	Black
11009651521	11009654521	11009655521	11009652521	11009653521	11009659521	50	37	46	M10	25	Black

380013K**STAR KNOB WITH STAINLESS STEEL THREADED NUT**
INOX
Stainless
Steel

Stainless steel nut.
PA: Polyamide.
Caps in black, white, orange, yellow and
blue.



	RAL 9005 Black
	RAL 9019 White
	RAL 2004 Orange
	RAL 5025 Blue
	RAL 1016 Yellow

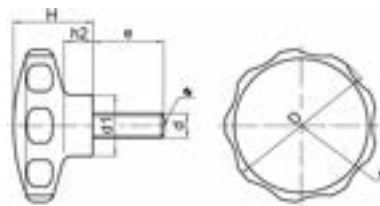
Black Cap	White Cap	Orange Cap	Yellow Cap	Blue Cap	D	d	d1	H	h2	Body
38001300030	38001300031	38001300032	38001300033	38001300034	30	M4	14	19	7	Black
38001300035	38001300036	38001300037	38001300038	38001300039	30	M5	14	19	7	Black
38001300040	38001300041	38001300042	38001300043	38001300044	40	M5	16.5	22	9	Black
38001300045	38001300046	38001300047	38001300048	38001300049	40	M6	16.5	22	9	Black
38001300050	38001300051	38001300052	38001300053	38001300054	50	M6	22	26	10	Black
38001300055	38001300056	38001300057	38001300058	38001300059	50	M8	22	26	10	Black
38001300060	38001300061	38001300062	38001300063	38001300064	62	M8	22	35	13	Black
38001300065	38001300066	38001300067	38001300068	38001300069	62	M10	22	35	13	Black

380013T STAR KNOB WITH STAINLESS STEEL SCREW



- RAL 9005 Black
- RAL 9019 White
- RAL 2004 Orange
- RAL 5025 Blue
- RAL 1016 Yellow

INOX
Stainless Steel



Stainless steel screws.

PA: Polyamide.

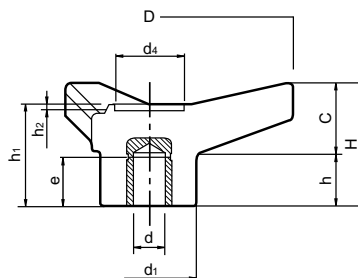
Caps in black, white, orange, yellow and blue. Other sizes, ask.

Black Code	White Code	Orange Code	Yellow Code	Blue Code	D	d	e	d1	H	h2	Body
38001300110	38001300111	38001300112	38001300113	38001300114	30	M4	14	14	19	7	Black
38001300140	38001300141	38001300142	38001300143	38001300144	30	M4	28	14	19	7	Black
38001300150	38001300151	38001300152	38001300153	38001300154	30	M5	10	14	19	7	Black
38001300180	38001300181	38001300182	38001300183	38001300184	30	M5	23	14	19	7	Black
38001300250	38001300251	38001300252	38001300253	38001300254	40	M6	14	16,5	22	9	Black
38001300270	38001300271	38001300272	38001300273	38001300274	40	M6	23	16,5	22	9	Black
38001300290	38001300291	38001300292	38001300293	38001300294	40	M6	38	16,5	22	9	Black
38001300350	38001300351	38001300352	38001300353	38001300354	50	M8	18	22	26	10	Black
38001300380	38001300381	38001300382	38001300383	38001300384	50	M8	38	22	26	10	Black
38001300450	38001300451	38001300452	38001300453	38001300454	62	M10	23	22	35	13	Black
38001300480	38001300481	38001300482	38001300483	38001300484	62	M10	48	22	35	13	Black

470001K 3L WITH THREADED INSERT



PA Black reinforced polyamide.
Threaded female brass insert.

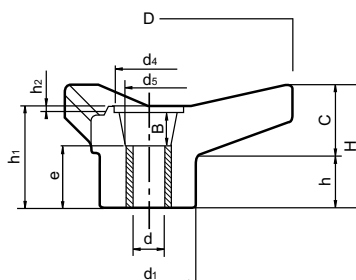


Code	D	H	d	d1	d4	h	h1	h2	C	e	Color
47000104301	45	21	M6	16	11	10	18	1	11	9	Black
47000106301	65	28	M8	22	15,5	11,5	23,5	1,5	16,5	11	Black
47000108301	85	37	M10	30	21	16	30,5	2	21	14	Black
47000110301	105	46	M12	35	25	19	37,5	2	26	17	Black
47000112301	125	54	M12	42,5	28,5	23	44	2	31	18	Black

470001D 3L WITH THREADED THROUGH-HOLE INSERT



PA Black reinforced polyamide.
Brass threaded through hole insert.

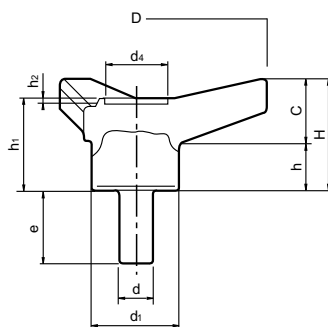


Code	D	H	d	d1	d4	d5	h	h1	h2	B	C	e	Color
47000104401	45	21	M6	16	11	10	10	18	1	7,5	11	12,5	Black
47000106401	65	28	M8	22	15,5	13,5	11,5	23,5	1,5	11	16,5	15,5	Black
47000108401	85	37	M10	30	21	13	16	30,5	2	21,5	21	13,5	Black
47000110401	105	46	M12	35	25	23,5	19	37,5	2	21	26	23	Black
47000112401	125	54	M12	42,5	28,5	26	23	44	2	21	31	31	Black

470001T 3L WITH THREADED STUD



PA Black reinforced polyamide.
Treated threaded steel stud.

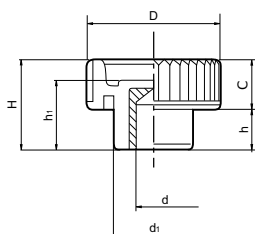


Code	D	H	d	d1	d4	h	h1	h2	C	e	Color
47000104501	45	21	M6	16	11	10	18	1	11	25	Black
47000106501	65	28	M8	22	15,5	11,5	23,5	1,5	16,5	30	Black
47000108501	85	37	M10	30	21	16	30,5	2	21	40	Black
47000110501	105	46	M12	35	25	19	37,5	2	26	50	Black
47000112501	125	54	M12	42,5	28,5	23	44	2	31	50	Black

470002K TMP KNURLED THUMB KNOB WITH THREADED INSERT



PA Reinforced polyamide.
Threaded female brass insert.

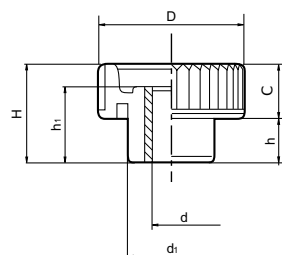


Code	D	H	d	d1	C	h	h1	Color
47000221301	21	15	M5	13	8,5	6,5	12,5	Black
47000226301	26	18	M6	16	9,5	8,5	15	Black
47000233301	32	23	M8	20	12,5	10,5	18	Black
47000240301	40	28	M10	25	15,5	12,5	22	Black
47000240302	40	28	M12	25	15,5	12,5	22	Black

470002D TMP KNURLED THUMB KNOB WITH THREADED THROUGH-HOLE INSERT



PA Reinforced polyamide.
Brass threaded through-hole insert.

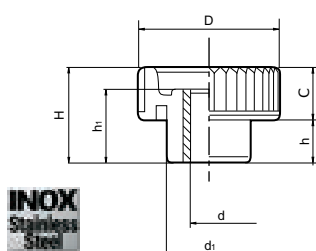


Code	D	H	d	d1	C	h	h1	Color
47000215401	15	10,5	M4	10	6	4,5	8,5	Black
47000221401	21	15	M5	13	8,5	6,5	12,5	Black
47000226401	26	18	M6	16	9,5	8,5	15	Black
47000233401	32	23	M8	20	12,5	10,5	18	Black
47000240401	40	28	M10	25	15,5	12,5	22	Black
47000240402	40	28	M12	25	15,5	12,5	22	Black

470002D TMP KNURLED THUMB KNOB WITH THREADED THROUGH-HOLE STAINLESS STEEL INSERT



PA Reinforced polyamide.
Stainless steel AISI-303 insert,
drilled-out.

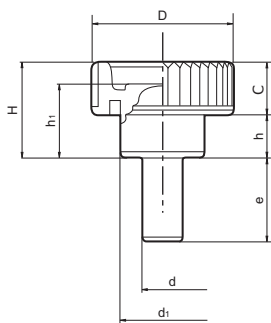


Code	D	H	d	d1	C	h	h1	Color
47000215451	15	10,5	M4	10	6	4,5	8,5	Black
47000221451	21	15	M5	13	8,5	6,5	12,5	Black
47000226451	26	18	M6	16	9,5	8,5	15	Black
47000233451	32	23	M8	20	12,5	10,5	18	Black
47000240451	40	28	M10	25	15,5	12,5	22	Black
47000240452	40	28	M12	25	15,5	12,5	22	Black

470002T TMP KNURLED THUMB KNOB WITH THREADED STUD



PA Reinforced polyamide.
Treated threaded steel stud.



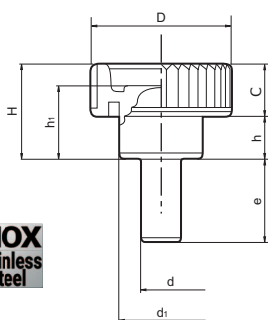
Code	D	H	d	d1	C	h	h1	e	Color
47000215501	15	10,5	M4	10	6	4,5	8,5	10	Black
47000221501	21	15	M5	13	8,5	6,5	12,5	16	Black
47000226501	26	18	M6	16	9,5	8,5	15	20	Black
47000233501	32	23	M8	20	12,5	10,5	18	20	Black
47000240501	40	28	M10	25	15,5	12,5	22	20	Black
47000240503	40	28	M12	25	15,5	12,5	22	50	Black

470002T TMP KNURLED THUMB KNOB WITH THREADED STAINLESS STEEL STUD



PA Reinforced polyamide.
Stainless steel stud AISI-303.
* MOQ: 250u.

INOX
Stainless
Steel

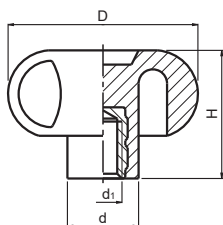


Code	D	H	d	d1	C	h	h1	e	Color
47000215551*	15	10,5	M4	10	6	4.5	8.5	10	Black
47000221551	21	15	M5	13	8.5	6.5	12.5	15	Black
47000226551	26	18	M6	16	9.5	8.5	15	20	Black
47000233551	32	23	M8	20	12.5	10.5	18	20	Black
47000240551	40	28	M10	25	15.5	12.5	22	20	Black
47000240552	40	28	M12	25	15.5	12.5	22	30	Black

470011K 4L KNOB WITH THREADED INSERT



PA Reinforced polyamide.
Threaded female brass insert.

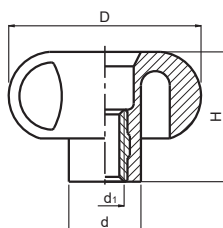


Code	D	H	d	d1	Color
47001120301	21	14	11	M5	Black
47001125301	26	16	12	M6	Black
47001130301	30	23	15	M8	Black
47001140301	40,5	29,5	17	M8	Black
47001150301	49	32	20,5	M10	Black
47001160301	59	40	23	M12	Black
47001180301	79	41	30	M12	Black

470011D 4L KNOB WITH THREADED THROUGH-HOLE INSERT

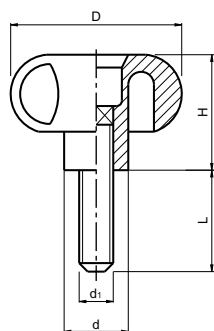


PA Reinforced polyamide.
Brass threaded through hole insert.



Code	D	H	d	d1	Color
47001120401	21	14	11	M5	Black
47001125401	26	16	12	M6	Black
47001130401	30	23	15	M8	Black
47001140401	40,5	29,5	17	M8	Black
47001150401	49	32	20,5	M10	Black
47001160401	59	40	23	M12	Black
47001180401	79	41	30	M12	Black

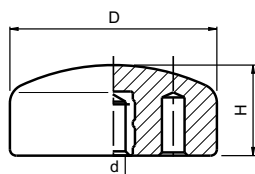
470011T 4L KNOB WITH THREADED STUD



PA Reinforced polyamide.
Treated threaded steel stud.

Code	D	H	d	d1	L	Color
47001120501	21	14	11	M5	20	Black
47001125501	25	16	12	M6	25	Black
47001130501	30	23	15	M8	25	Black
47001140501	40,5	29,5	17	M8	30	Black
47001150501	49	32	20,5	M10	35	Black
47001160501	59	40	23	M12	40	Black
47001180501	79	41	30	M12	50	Black

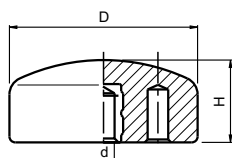
470021K ZN WING NUT WITH THREADED INSERT



PA Reinforced polyamide.
Threaded female brass insert.
Other thread or plain hole on demand (min. 500 units).
For different colours, please ask.

Code	D	H	d	Color
47002103300	33	16,5	M5	Black
47002103301	33	16,5	M6	Black
47002103302	33	16,5	M8	Black
47002104300	48	16	M6	Black
47002104301	48	16	M8	Black

470021K ZN WING NUT WITH THREADED STAINLESS STEEL INSERT

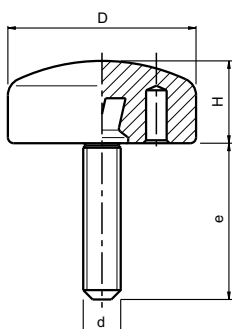


INOX
Stainless
Steel

PA Reinforced polyamide.
Threaded female stainless-steel AISI-303 insert.
Other thread or plain hole on demand (min. 500 units).
For different colours, please ask.

Code	D	H	d	Color
47002103310	33	16,5	M5	Black
47002103311	33	16,5	M6	Black
47002103312	33	16,5	M8	Black
47002104310	48	16	M8	Black

470021T ZN WING NUT WITH THREADED STUD

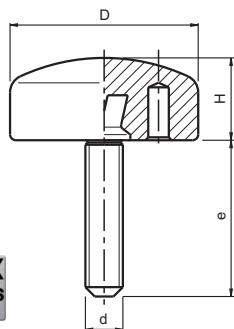


PA Reinforced polyamide.
Treated threaded steel stud.
Other thread or plain hole on demand (min. 500 units).
For different colours, please ask.

Code	D	H	d	e	Color
47002103504	33	16,5	M6	16	Black
47002103501	33	16,5	M6	25	Black
47002103506	33	16,5	M6	40	Black
47002104501	48	16	M8	16	Black
47002104502	48	16	M8	25	Black
47002104503	48	16	M8	40	Black

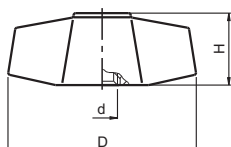
470021T ZN WING NUT WITH THREADED STAINLESS STEEL STUD

INOX
Stainless
Steel



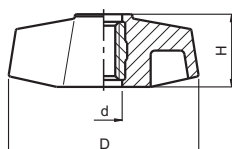
Code	D	H	d	e	Color
47002103508	33	16,5	M6	16	Black
47002103511	33	16,5	M6	30	Black
47002104504	48	16	M8	20	Black
47002104520	48	16	M8	40	Black

PA Reinforced polyamide.
Threaded stainless steel stud AISI-303.
Other thread or plain hole on demand (min.
500 units). For different colours, please ask.

470023K VZ WING NUT WITH THREADED INSERT

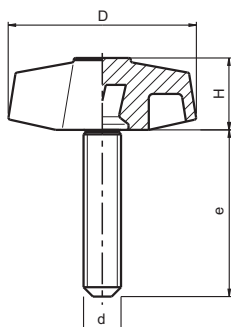
Code	D	H	d	Color
47002305301	45	17	M8	Black
47002305302	45	17	M10	Black

PA Reinforced polyamide.
Threaded female brass insert.

470023D VZ WING NUT WITH THREADED THROUGH-HOLE INSERT

Code	D	H	d	Color
47002305402	45	17	M6	Black
47002305401	45	17	M8	Black

PA Reinforced polyamide.
Zinc-plated steel insert, drilled out.

470023T VZ WING NUT WITH THREADED STUD

Code	D	H	d	e	Color
47002305501	45	17	M8	30	Black
47002305512	45	17	M10	30	Black

PA Reinforced polyamide.
Treated threaded steel stud.

470060K TP WING NUT WITH THREADED INSERT

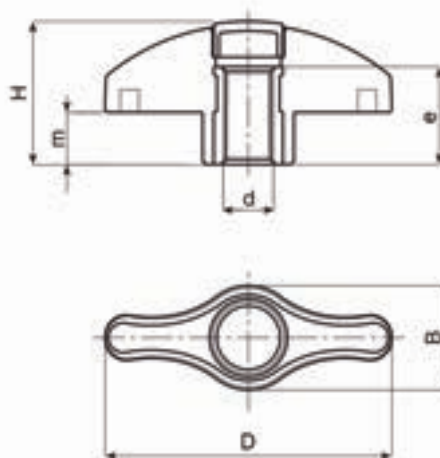


PA Black reinforced polyamide.
Threaded female brass insert.
Caps on the following colours:
grey, orange, black, red, blue,
yellow and green, similar to
the RAL indicated.
(*) 100pcs. minimum order
quantity.

	RAL 9011 Black
	RAL 2004 Orange
	RAL 3000 Red
	RAL 5015 Blue
	RAL 1021 Yellow
	RAL 7035 Grey
	RAL 6024 Green

Black Cap*	Orange Cap*	Grey Code	D	H	B	d	e	m	Body
47006041301	47006044301	47006049301	44	22	16	M5	15	8	Black
47006041302	47006044302	47006049302	44	22	16	M6	15	8	Black
47006051302	47006054302	47006059302	52	26	19	M6	18	9,5	Black
47006051303	47006054303	47006059303	52	26	19	M8	18	9,5	Black
47006061303	47006064303	47006069303	67	32,5	24	M10	18	11	Black
47006061304	47006064304	47006069304	67	32,5	24	M12	18	11	Black

Red Cap*	Blue Cap*	Yellow Cap*	Green Cap*	D	H	B	d	e	m	Body
47006045301	47006042301	47006043301	47006046301	44	22	16	M5	15	8	Black
47006045302	47006042302	47006043302	47006046302	44	22	16	M6	15	8	Black
47006055302	47006052302	47006053302	47006056302	52	26	19	M6	18	9,5	Black
47006055303	47006052303	47006053303	47006056303	52	26	19	M8	18	9,5	Black
47006065303	47006062303	47006063303	47006066303	67	32,5	24	M10	18	11	Black
47006065304	47006062304	47006063304	47006066304	67	32,5	24	M12	18	11	Black

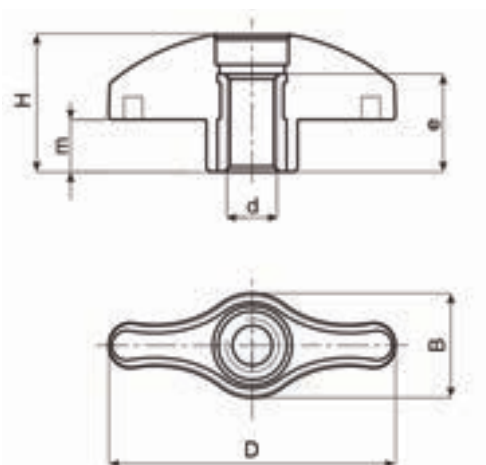


470060D TP WING NUT WITH THREADED THROUGH-HOLE INSERT



PA Black reinforced polyamide.
Brass threaded through hole insert.

Code	D	H	B	d	e	m	Color
47006044401	44	21,5	16	M5	15	8	Black
47006044402	44	21,5	16	M6	15	8	Black
47006052402	52	25,5	19	M6	18	9,5	Black
47006052403	52	25,5	19	M8	18	9,5	Black
47006067403	67	32	24	M10	18	11	Black
47006067404	67	32	24	M12	18	11	Black

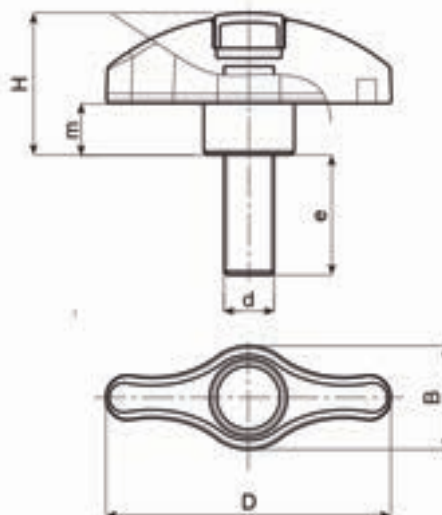


470060T TP WING NUT WITH THREADED STUD



	RAL 9011	Black
	RAL 2004	Orange
	RAL 3000	Red
	RAL 5015	Blue
	RAL 1021	Yellow
	RAL 7035	Grey
	RAL 6024	Green

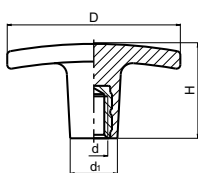
PA Black reinforced polyamide.
Treated threaded steel stud.
Caps on the following colours: grey, orange, black, red, blue, yellow and green, similar to the RAL indicated.
(*) 100pcs. minimum order quantity.



Black Cap*	Orange Cap*	Grey Code	D	H	B	d	e	m	Body
47006041501	47006044501	47006049501	44	22	16	M5	16	8	Black
47006041502	47006044502	47006049502	44	22	16	M5	25	8	Black
47006041503	47006044503	47006049503	44	22	16	M6	16	8	Black
47006041504	47006044504	47006049504	44	22	16	M6	25	8	Black
47006051501	47006054501	47006059501	52	26	19	M6	40	9,5	Black
47006051502	47006054502	47006059502	52	26	19	M8	20	9,5	Black
47006051503	47006054503	47006059503	52	26	19	M8	40	9,5	Black
47006061501	47006064501	47006069501	67	32,5	24	M10	25	11	Black
47006061502	47006064502	47006069502	67	32,5	24	M10	50	11	Black
47006061503	47006064503	47006069503	67	32,5	24	M12	25	11	Black
47006061504	47006064504	47006069504	67	32,5	24	M12	50	11	Black

Red Cap*	Blue Cap*	Yellow Cap*	Green Cap*	D	H	B	d	e	m	Body
47006045501	47006042501	47006043501	47006046501	44	22	16	M5	16	8	Black
47006045502	47006042502	47006043502	47006046502	44	22	16	M5	25	8	Black
47006045503	47006042503	47006043503	47006046503	44	22	16	M6	16	8	Black
47006045504	47006042504	47006043504	47006046504	44	22	16	M6	25	8	Black
47006055501	47006052501	47006053501	47006056501	52	26	19	M6	40	9,5	Black
47006055502	47006052502	47006053502	47006056502	52	26	19	M8	20	9,5	Black
47006055503	47006052503	47006053503	47006056503	52	26	19	M8	40	9,5	Black
47006065501	47006062501	47006063501	47006066501	67	32,5	24	M10	25	11	Black
47006065502	47006062502	47006063502	47006066502	67	32,5	24	M10	50	11	Black
47006065503	47006062503	47006063503	47006066503	67	32,5	24	M12	25	11	Black
47006065504	47006062504	47006063504	47006066504	67	32,5	24	M12	50	11	Black

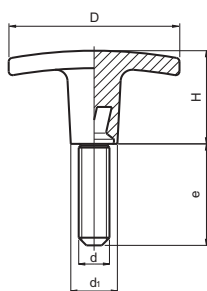
470025K T HANDLE WITH THREADED INSERT



Code	D	H	d	d1	Color
47002505301	50	24	M5	14	Black
47002506301	60	33	M6	16,5	Black
47002507301	72	34	M8	18	Black

PA Reinforced polyamide.
Threaded female brass insert.

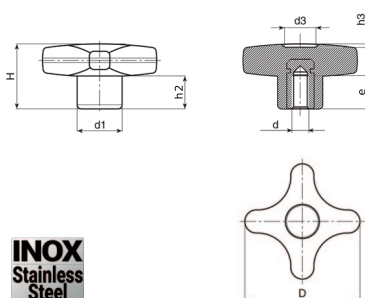
470025T T HANDLE WITH THREADED STUD



PA Reinforced polyamide.
Treated threaded steel stud.

Code	D	H	d	d1	e	Color
47002505501	50	24	M5	14	20	Black
47002506506	60	33	M6	16	30	Black
47002507506	72	34	M8	18	40	Black

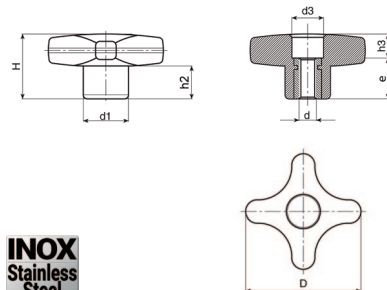
470058K CROSS KNOB WITH STAINLESS STEEL THREADED INSERT



PA Black reinforced polyamide.
Stainless steel female threaded insert.

Code	D	H	d	e	d1	d3	h2	h3	Color
47005803351	32	23	M5	14	15	11	12	1,5	Black
47005803352	32	23	M6	10	15	11	12	1,5	Black
47005804351	40	24,5	M6	16	16	13	12,5	1,5	Black
47005804352	40	24,5	M8	14	16	13	12,5	1,5	Black
47005805351	50	29	M8	14	20	14	15	2	Black
47005805352	50	29	M10	14	20	14	15	2	Black
47005806352	60	34	M12	18	24	18	18,5	2	Black

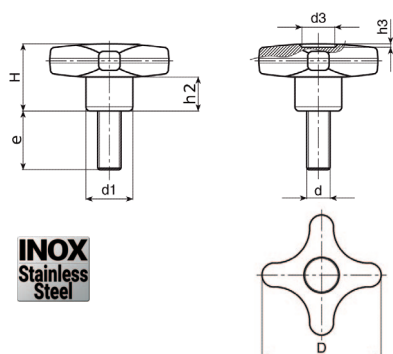
470058D CROSS KNOB WITH STAINLESS STEEL THREADED THROUGH-HOLE INSERT



PA Black reinforced polyamide.
Stainless steel threaded drilled-out insert.

Code	D	H	d	e	d1	d3	h2	h3	Color
47005803451	32	23	M5	18	15	10	11	5	Black
47005803452	32	23	M6	18	15	10	11	5	Black
47005804451	40	24,5	M6	18	16	12	12,5	6,5	Black
47005804452	40	24,5	M8	18	16	12	12,5	6,5	Black
47005805451	50	29	M8	18	20	14	15	11	Black
47005805452	50	29	M10	18	20	14	15	11	Black
47005806452	60	34	M12	18	24	16	18,5	16	Black

470058T CROSS KNOB WITH STAINLESS STEEL THREADED STUD



PA Black reinforced polyamide.
Threaded stainless steel stud.

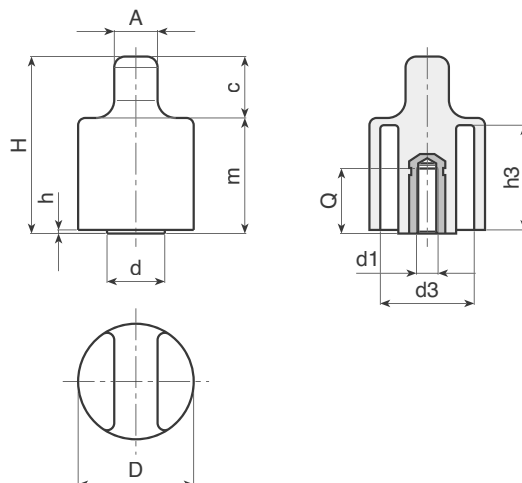
Code	D	H	d	e	d1	d3	h2	h3	Color
47005803551	32	23	M5	20	15	9	11	1,5	Black
47005803553	32	23	M5	40	15	9	11	1,5	Black
47005803555	32	23	M6	20	15	9	11	1,5	Black
47005803557	32	23	M6	30	15	9	11	1,5	Black
47005804551	40	24,5	M6	20	17	12	12,5	1	Black
47005804553	40	24,5	M6	40	17	12	12,5	1	Black
47005804554	40	24,5	M8	20	17	12	12,5	1	Black
47005804556	40	24,5	M8	40	17	12	12,5	1	Black
47005805551	50	29	M8	20	20	14,5	15	1,5	Black
47005805557	50	29	M8	35	20	14,5	15	1,5	Black
47005805554	50	29	M10	20	20	14,5	15	1,5	Black
47005805556	50	29	M10	40	20	14,5	15	1,5	Black
47005806558	60	34	M12	20	24	18	18,5	1,5	Black
47005806560	60	34	M12	40	24	18	18,5	1,5	Black

470097K ADJUSTMENT KNOB WITH THREADED INSERT



Code	D	H	d	A	c	m	h	h3	d3	d16H	Q
47009730301	32	49	16	12	15	34	1	29	25,5	M6	16
47009730302	32	49	16	12	15	34	1	29	25,5	M8	14
47009730303	32	49	16	12	15	34	1	29	25,5	M10	13

Reinforced polyamide resistant to oils and greases.
Satin surface finish.
Brass insert with female threaded hole (thread tolerance 6H).

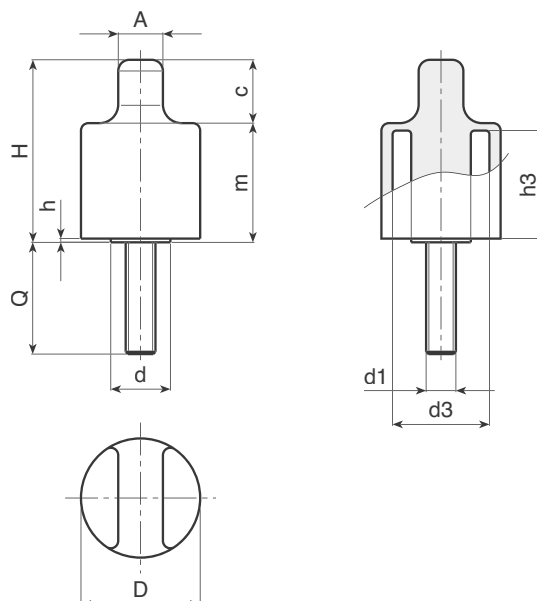


470097T ADJUSTMENT KNOB WITH THREADED STUD



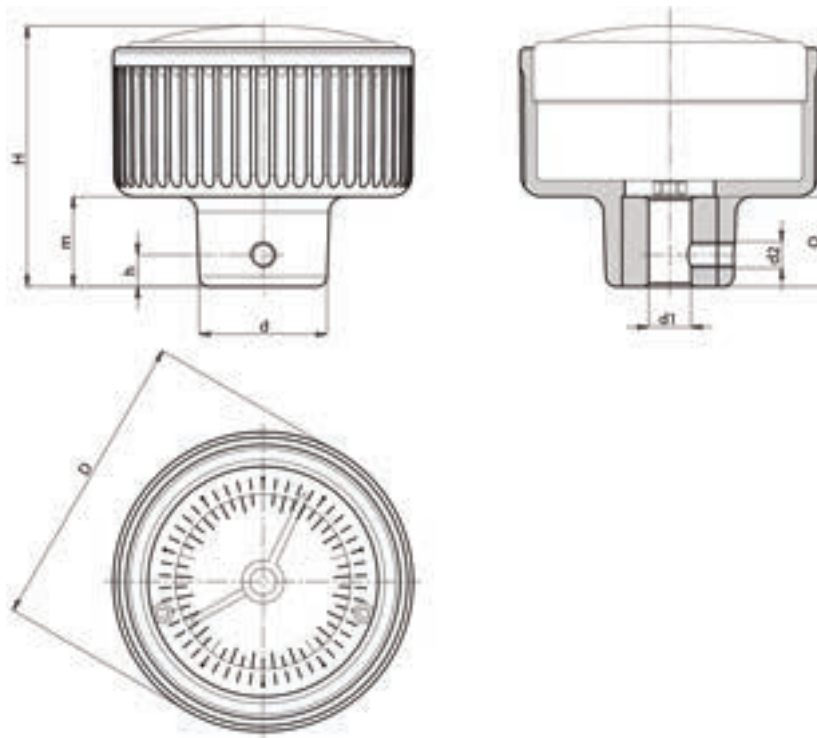
Code	D	H	d	A	c	m	h	h3	d3	LM	d16g	Q
47009730501	32	49	16	12	15	34	1	29	25,5	60	M6	20
47009730502	32	49	16	12	15	34	1	29	25,5	60	M8	25
47009730503	32	49	16	12	15	34	1	29	25,5	60	M12	20

Reinforced polyamide resistant to oils and greases.
Satin surface finish.
Galvanised steel threaded stud (thread tolerance 6g).





Code	D	d	H	h	m	d2	d1 H10	dm	Q
47006458yzz	57	24	50	6	17	M5	8	12	16
47006450yzz	57	24	50	6	17	M5	10	12	16
47006452yzz	57	24	50	6	17	M5	12	12	16
47006478yzz	72	28	56	6	21	M5	8	12	20
47006470yzz	72	28	56	6	21	M5	10	12	20
47006472yzz	72	28	56	6	21	M5	12	12	20
47006490yzz	94	36	60	6	24	M5	10	15	24



PA Black reinforced polyamide resistant to oils and greases.
Galvanised steel insert with smooth through bore (tolerance H10).

Gravity position indicator type 470085. The indicator can be supplied with one or two pointers. Graduated scale printed in black. With standard graduation, with start and end of the scale combined with the chosen gear ratio.
Option to rotate clockwise or counterclockwise.
Non-removable indicator.

Rotation direction (y):

0= increase of values with clockwise rotation.

1= increase of values with counter clockwise rotation.

Gear ratio and corresponding scale (zz):

Select the appropriate gear ratio by deciding which number the big black pointer must indicate after the knob has completed one turn. The graduated scale will be proportional to the selected ratio. A ratio of 12 will have a scale that ranges from 0 to 12.

Grub screw not supplied.

Available gear ratios:

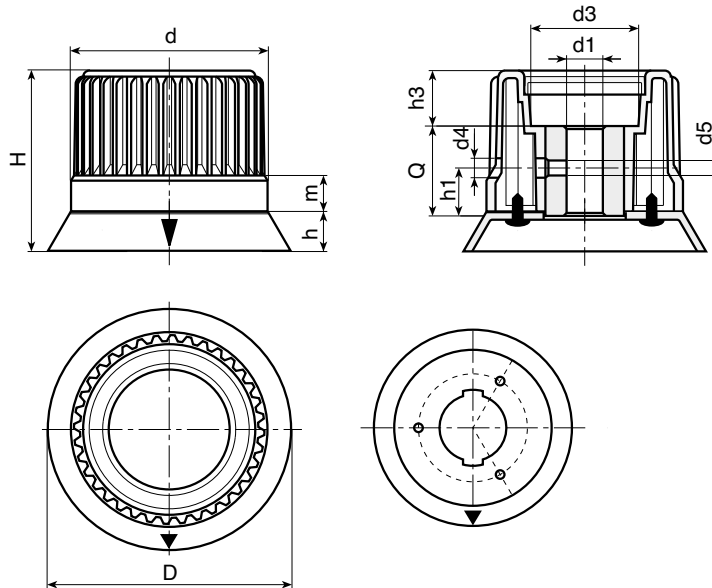
1-2-3-6-10-12-15-18-20-24-30-36-48-50-60-72-84-96-100

In your orders you must indicate the rotation direction and the desired gear ratio.

Example: On knob D=57 with a hole d1=10, clockwise (y=0) and a ratio of 6 (zz=06) code will be **47006450006**. (For ratio 100 zz=00).



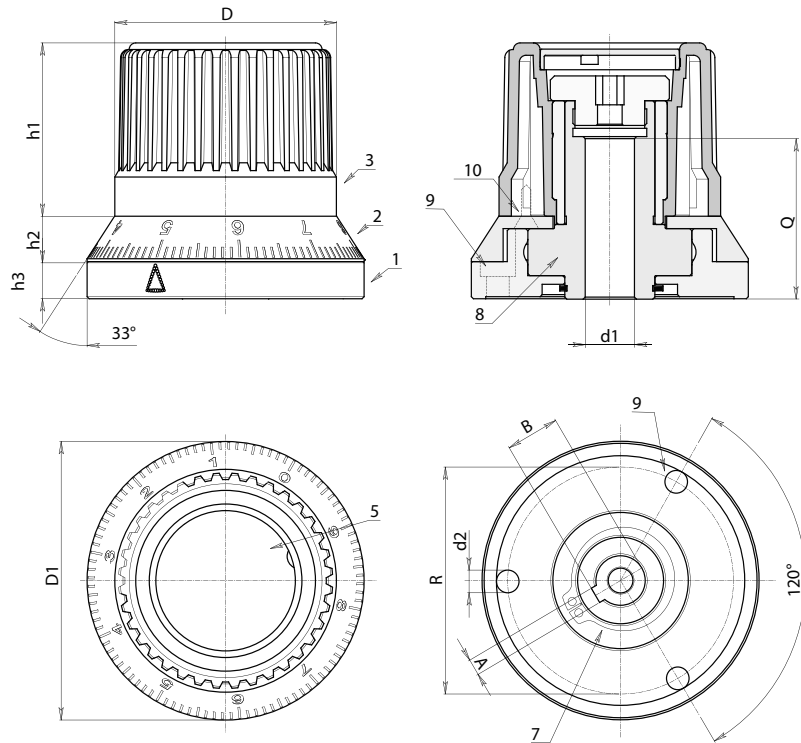
Code	D	H	h	m	d	d3	d4	d5	h1	h3	Dm	d1 H10	Q
47004638400	38	37	7	11,5	30	18	4,5	M4	16	5,5	12	6	26
47004653400	53,5	45	9	11,5	43	23	5,5	M5	16	13,5	12	8	24
47004666400	67	53	11	12	54	31	5,5	M5	16	13,5	14	8	30
47004680400	80	60	13	12	65	36	5,5	M5	16	19	16	8	30
47004693400	93	67	13	12,5	78	50	6,5	M6	18	23,5	18	8	32



PA Black reinforced polyamide resistant to oils and greases.
 Galvanised steel insert with smooth through bore (tolerance H10).
 Central cap in polyamide color RAL 7035.
 Black pad-printed arrow on grey flange RAL 7035.
 3 galvanised self-tapping screws 2.9x9.5 UNI6954.
 Working temperature between +135°C and -20°C.

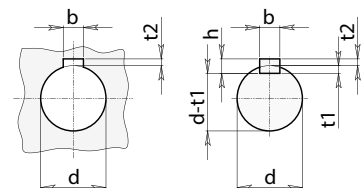
Options:

Version with black flange and cap, and grey arrow.
 Flange graduated scale with numbers from 0 to 9 with 100 graduations.



Lowered key in compliance with DIN 6885-2

Code	D	D1	h1	h2	h3	R	d2	A	B	d1 H7	Q
47004654500	54	68	42	11	9	55	6	4	13	12	39



d	b x h	t2	t1	d-t1
12	4x4	1,1	3	9

Materials:

1. Stainless steel (AISI 304) fixing base with friction device seat and fixing holes.
2. Anodized aluminium graduated flange (alloy 2011).
3. Reinforced polyamide control knob. Resistant to oils and greases.
5. PA6 cap.
6. Stainless steel fastening cap with hexagon socket (Aisi 303).
7. Fastening snap ring in stainless steel (UNI 3653).
8. Stainless steel (AISI 304) lock and friction mechanism.
10. Stainless steel self-tapping screws (AISI 303) TCS 2.9x13 for fastening the flange.

Graduated flange:

The standard numbering of the flange goes from 0 to 9 with 10 graduations for each unit. (100 graduations).

Fastening & coupling:

Fixed to the machine with 3 x M05 hex socket head cap screws (number 9 in the drawing) (DIN 912).

The shaft is coupled to the knob by means of a shaft with keyway. Attention! The key, for technical reasons, is small in size. See attached diagram for bore/shaft dimensions.

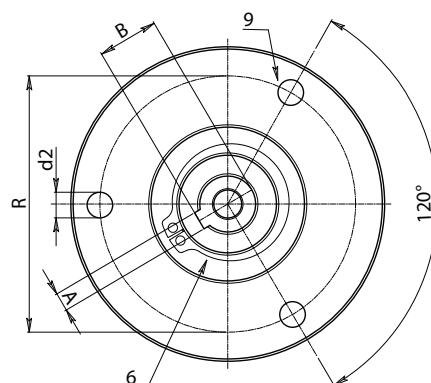
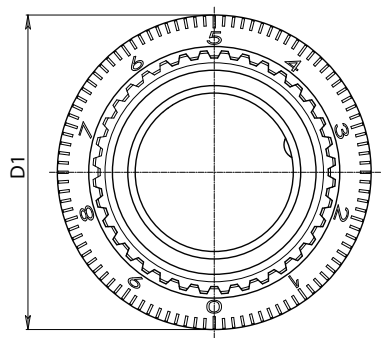
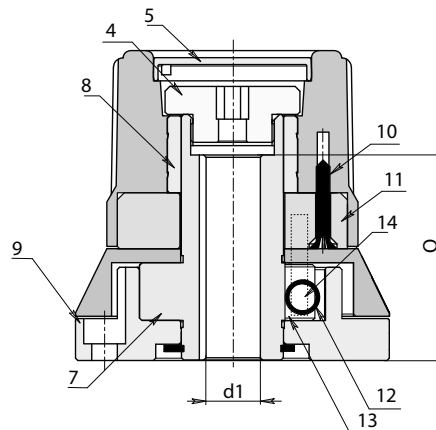
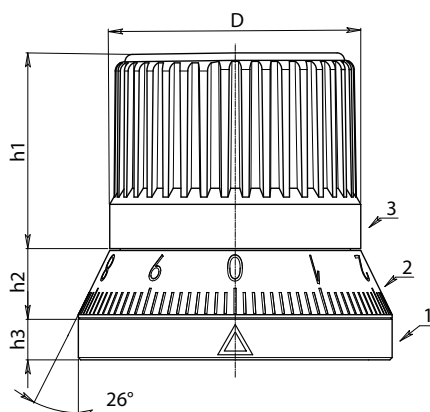
The shaft hole is machined to H7 tolerance. Side fixing hole is not required. The diameter of the hole is fixed and cannot be varied.

Features:

The main feature of this item is the possibility to continually adjust the axis of the machine to which it is coupled and to maintain the selected position. The special friction device, the heart of the mechanism, allows you to make very small, continuous movements and therefore enables fine tuning in both directions. After reaching the desired position, the friction device prevents rotation by any minor shaft-induced vibrations or movements. This system prevents accidental or involuntary rotations of the shaft.

Limitations:

If the vibrations are strong the friction device is not sufficient to block any movements. Moreover, the knob cannot support the weight of the shaft, consequently it does not replace the normal support systems (bearings, flanges, etc.). The knob cannot be installed if there is a motor drive present.

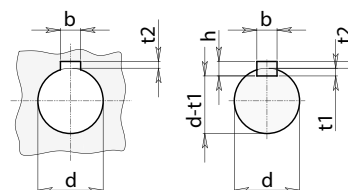


Lowered key in compliance with DIN 6885-2

Code	D	D1	h1	h2	h3	R	d2	A	B	d1 H7	Q
47004654600	54	67,5	42	14,5	9	55	5,5	4	13,1	12	44

Materials:

1. Hardened steel C45 base with fixing holes.
2. Aluminium (alloy 2011) flange with laser engraved numbers.
3. Reinforced polyamide control knob. Resistant to oils and greases.
4. Stainless steel fastening cap with hexagon socket (Aisi 303).
5. PA6 cap.
6. Fastening snap ring in stainless steel (UNI 653).
7. High resistance tempered and hardened steel rotating cam shaft, with through hole and key.
8. Stainless steel knob insert (Aisi 303).
10. Stainless steel (Aisi 303) self-tapping screws TCS 2.9x19 for fastening the bush.
11. Aluminium (alloy 2011) turned unlocking pin holder bush.
12. Stainless steel (Aisi 302) pressure spring.
13. Hardened stainless steel locking roller (Aisi 52100 grade G2).
14. 2 turned stainless steel unlocking pins (Aisi 303).



d	bxh	t2	t1	d-t1
12	4x4	1,1	3	9

Graduated flange:

The standard numbering of the flange goes from 0 to 9 with 10 graduations for each unit. (100 graduations).

ATTENTION!!: Select the rotation direction (O= clockwise A=counter clockwise).

Fastening & coupling:

Fixed to the machine with 3 x M05 hex socket head cap screws (number 9 in the drawing) (DIN 912).

The shaft is coupled to the knob by means of a shaft with keyway. Attention! The key, for technical reasons, is small in size. See attached diagram for bore/shaft dimensions.

The shaft hole is machined to H7 tolerance. Side fixing hole is not required. The diameter of the hole is fixed and cannot be varied.

Features:

The main feature of this product is the automatic locking function once the knob is released. This makes it possible to lock the shaft to which the knob is attached in the desired position. The start of the knob's rotation serves to unlock the internal mechanism, either by turning the knob clockwise or counterclockwise. Once the rotation of the knob stops, the spring rotates the knob in the opposite direction and the automatic lock is activated. The use of this system avoids accidents or involuntary rotation of the shaft.

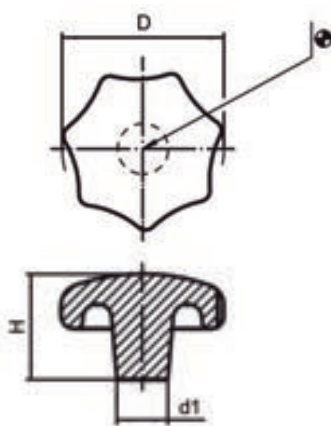
Limitations:

The knob is not capable of supporting the weight of the shaft to which it is coupled; consequently it does not replace the normal support systems (bearings, flanges, etc.). The knob cannot be installed if there is a motor drive present.

370005F DIN 6336 CAST IRON UNMACHINED



Fe Cast iron, sandblasted.

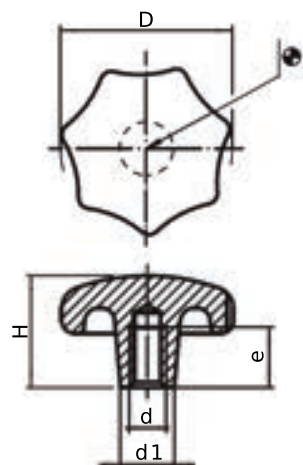


Code	D	H	d1
37000503000	32	21	12
37000504000	40	26	14
37000505000	50	34	18
37000506000	63	42	20
37000508000	80	52	25

370005C DIN 6336 CAST IRON WITH THREADED BLIND HOLE



Fe Cast iron, sandblasted.
Female threaded blind hole.

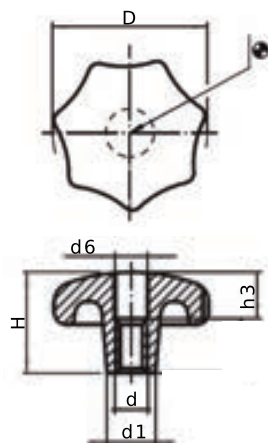


Code	D	H	d1	d	e
37000500432	32	20	12	M6	12
37000500440	40	25	14	M8	15
37000500450	50	32	18	M10	18
37000500463	63	40	20	M12	22
37000500480	80	50	25	M16	28

370005E DIN 6336 CAST IRON WITH THREADED DRILL OUT HOLE



Fe Cast iron, sandblasted.
Molded thread drilled out.

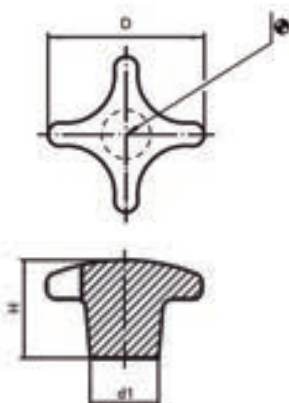


Code	D	H	d1	d6	d	h3
37000500332	32	20	12	6,4	M6	10
37000500340	40	25	14	8,4	M8	12
37000500350	50	32	18	10,5	M10	16
37000500363	63	40	20	13,0	M12	20
37000500380	80	50	25	17,0	M16	30

370007F DIN 6335 CAST IRON UNMACHINED



Fe Cast iron, sandblasted.

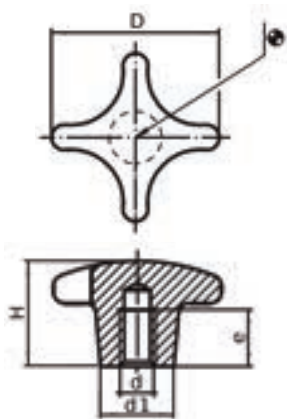


Code	D	H	d1
37000703000	32	21	12
37000704000	40	26	14
37000705000	50	34	18
37000706000	63	42	20
37000708000	80	52	25
37000710000	100	65	32

370007C DIN 6335 CAST IRON WITH THREADED HOLE



Fe Cast iron, sandblasted.
Molded thread.

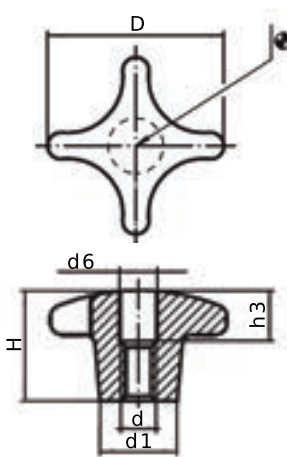


Code	D	H	d1	d	e
37000700432	32	20	12	M6	12
37000700440	40	25	14	M8	15
37000700450	50	32	18	M10	18
37000700463	63	40	20	M12	22
37000700480	80	50	25	M16	28
37000700490	100	63	32	M20	36

370007E DIN 6335 CAST IRON WITH THREADED DRILL OUT HOLE



Fe Cast iron, sandblasted.
Female thread drilled out.



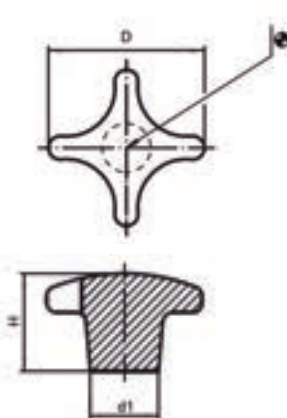
Code	D	H	d1	d6	d	h3
37000700332	32	20	12	6,4	M6	10
37000700340	40	25	14	8,4	M8	12
37000700350	50	32	18	10,5	M10	16
37000700363	63	40	20	13,0	M12	20
37000700380	80	50	25	17,0	M16	30
37000700390	100	63	32	21,0	M20	38

370007F INOX DIN 6335 STAINLESS STEEL UNMACHINED



Stainless steel 1.4305
Dull blasted.

INOX
Stainless
Steel



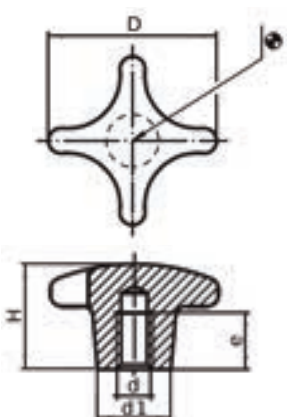
Code	D	H	d1
37000710032	32	21	12
37000710040	40	26	14
37000710050	50	34	18
37000710063	63	42	20

370007C INOX DIN 6335 STAINLESS STEEL WITH THREADED HOLE



Stainless steel 1.4305
Dull blasted.
Molded thread.

INOX
Stainless
Steel



Code	D	H	d1	d	e
37000710432	32	20	12	M6	12
37000710440	40	25	14	M8	15
37000710450	50	32	18	M10	18
37000710463	63	40	20	M12	22

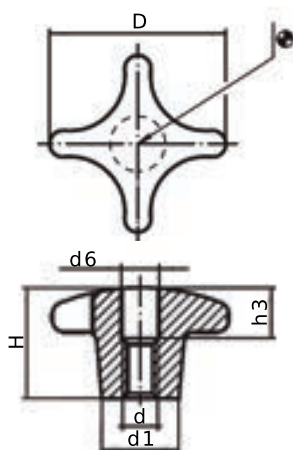
370007E INOX

DIN 6335 STAINLESS STEEL WITH THREADED DRILL OUT HOLE



Stainless steel 1.4305
Dull blasted.
Female thread drilled out.

INOX
Stainless
Steel



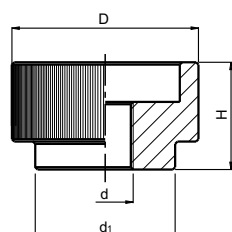
Code	D	H	d1	d6	d	h3
37000710332	32	20	12	6,4	M6	10
37000710340	40	25	14	8,4	M8	12
37000710350	50	32	18	10,5	M10	16
37000710363	63	40	20	13,0	M12	20

370009E

DIN 6303 STEEL KNOB WITH THREADED DRILL OUT HOLE



Fe Free cutting steel, blackened.
Female thread drilled out.



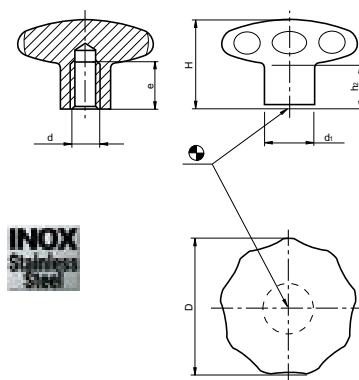
Code	D	H	d	d1	Finished
37000920105	20	12	M5	14	Blackened
37000924106	24	14	M6	16	Blackened
37000930108	30	17	M8	20	Blackened
37000936110	36	20	M10	28	Blackened
37000940112	40	24	M12	32	Blackened

370011C

SOLID STAINLESS STEEL KNOB WITH THREADED HOLE



Stainless steel 1.4305. Dull
blasted.
For all applications having high
hygienic requirements.
Molded thread.



INOX
Stainless
Steel

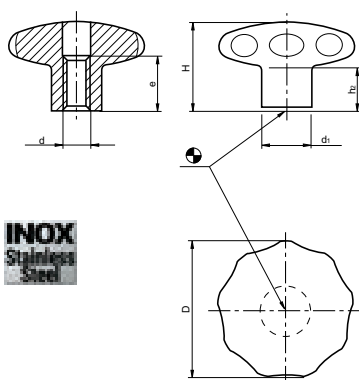
Code	D	H	d1	e	d	h2	Finished
37001100645	40	30,5	18	12	M6	15	Dull blasted
37001100646	40	30,5	18	12	M8	15	Dull blasted
37001100655	50	34,0	21	15	M8	17	Dull blasted
37001100656	50	34,0	21	15	M10	17	Dull blasted
37001100665	60	39,0	25	18	M10	18	Dull blasted
37001100666	60	39,0	25	18	M12	18	Dull blasted

370011E

SOLID STAINLESS STEEL KNOB WITH THREADED DRILL OUT HOLE



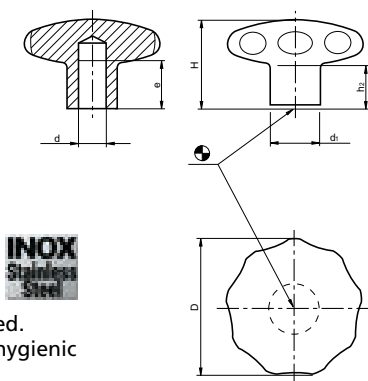
Stainless steel 1.4305. Dull
blasted.
For all applications having high
hygienic requirements.
Molded thread drilled out.



INOX
Stainless
Steel

Code	D	H	d1	e	d	h2	Finished
37001100644	40	30,5	18	13	M8	15	Dull blasted
37001100654	50	34,0	21	16	M10	17	Dull blasted
37001100664	60	39,0	25	20	M12	18	Dull blasted

370011G SOLID STAINLESS STEEL KNOB WITH SMOOTH HOLE

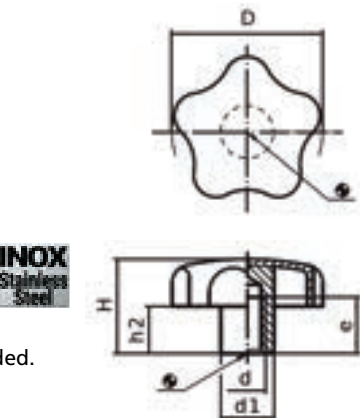


INOX
Stainless
Steel

Stainless steel 1.4305. Dull blasted.
For all applications having high hygienic requirements.
With smooth blind hole.

Code	D	H	d1	e	d	h2	Finished
37001100643	40	30,5	18	12	8	15	Dull blasted
37001100653	50	34,0	21	15	10	17	Dull blasted
37001100663	60	39,0	25	18	12	18	Dull blasted

370011C STAINLESS STEEL STAR KNOB WITH THREADED HOLE

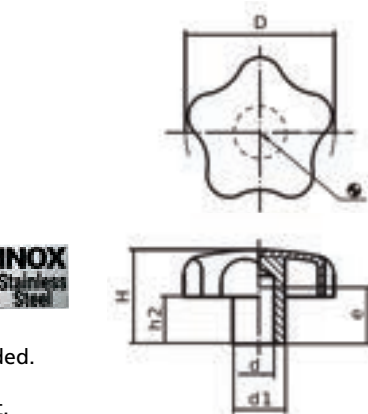


INOX
Stainless
Steel

Stainless steel 1.4301.
Sheet-iron drawn with hub welded.
Dull blasted.
Molded thread.

Code	D	H	d1	d	e	h2	Finished
37001100440	40	25	14	M8	15	12,5	Dull blasted
37001100450	50	32	18	M10	18	17,5	Dull blasted
37001100460	60	40	20	M12	22	21,0	Dull blasted

370011G STAINLESS STEEL STAR KNOB WITH SMOOTH BLIND HOLE

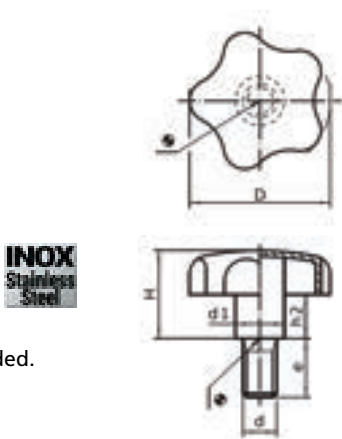


INOX
Stainless
Steel

Stainless steel 1.4301.
Sheet-iron drawn with hub welded.
Dull blasted.
Dimension 'e' shows min. lenght.
Smooth blind hole (d H7).

Code	D	H	d1	d	e	h2	Finished
37001100240	40	25	14	8	15	12,5	Dull blasted
37001100250	50	32	18	10	18	17,5	Dull blasted
37001100260	60	40	20	12	22	21,0	Dull blasted

370011T STAINLESS STEEL STAR KNOB WITH THREADED STUD



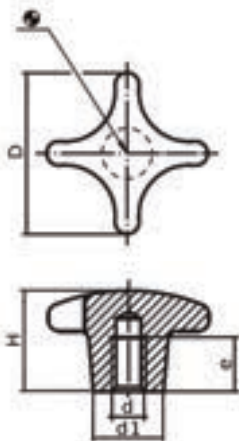
INOX
Stainless
Steel

Stainless steel 1.4301.
Sheet-iron drawn with hub welded.
Dull blasted.
Threaded stud.

Code	D	H	d1	d	e	h2	Finished
37001100140	40	24	14	M8	20	12,0	Dull blasted
37001100144	40	24	14	M8	40	12,0	Dull blasted
37001100150	50	30	18	M10	20	16,5	Dull blasted
37001100154	50	30	18	M10	40	16,5	Dull blasted
37001100160	60	37,5	20	M12	30	20,0	Dull blasted
37001100164	60	37,5	20	M12	50	20,0	Dull blasted

370049C**DIN 6335 ALUMINIUM WITH THREADED HOLE**

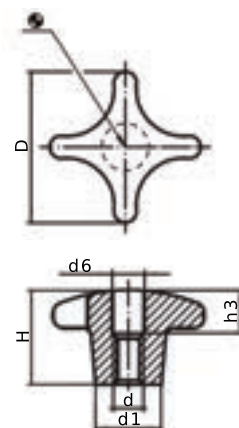
AL Aluminium, polished.
Molded thread.



Code	D	H	d1	d	e	Finished
37004900840	40	25	14	M8	15	Polished
37004900850	50	32	18	M10	18	Polished
37004900863	63	40	20	M12	22	Polished
37004900880	80	50	25	M16	28	Polished

370049E**DIN 6335 ALUMINIUM WITH THREADED DRILL OUT HOLE**

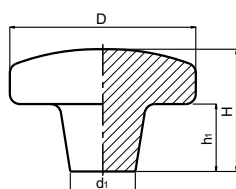
AL Aluminium, polished.
Female thread drill out.



Code	D	H	d1	d	h3	d6	Finished
37004900740	40	25	14	M8	12	8,4	Polished
37004900750	50	32	18	M10	16	10,5	Polished
37004900763	63	40	20	M12	20	13,0	Polished
37004900780	80	50	25	M16	30	17,0	Polished

370049**DIN 6335 ALUMINIUM UNMACHINED, NOT POLISHED**

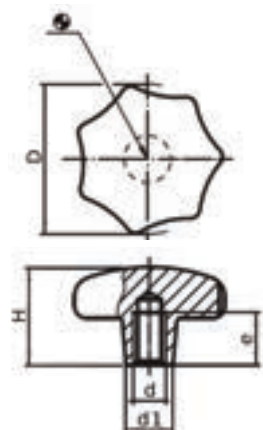
AL Aluminium, not polished.



Code	D	H	d1	h1	Finished
37004900040	40	26	14	14	Not Polished
37004900050	50	34	18	20	Not Polished
37004900063	63	42	20	25	Not Polished
37004900080	80	52	25	30	Not Polished

370053C**DIN 6336 ALUMINIUM WITH THREADED HOLE - POLISHED**

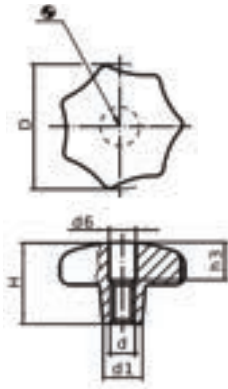
AL Aluminium, polished.
Female threaded blind hole.



Code	D	H	d1	d	e	Finished
37005300840	40	25	14	M8	15	Polished
37005300850	50	32	18	M10	18	Polished
37005300863	63	40	20	M12	22	Polished
37005300880	80	50	25	M16	28	Polished

370053D**DIN 6336 ALUMINIUM WITH THREADED DRILL OUT HOLE**

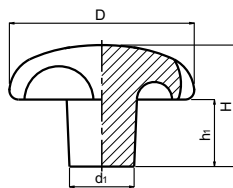
AL Aluminium, polished.
Molded thread drilled out.



Code	D	H	d1	d6	d	h3	Finished
37005300740	40	25	14	8,4	M8	15	Polished
37005300750	50	32	18	10,5	M10	18	Polished
37005300763	63	40	20	13	M12	22	Polished
37005300780	80	50	25	17	M16	28	Polished

370053**DIN 6336 ALUMINIUM UNMACHINED, NOT POLISHED**

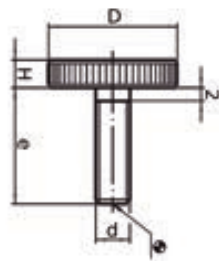
AL Aluminium, not polished.



Code	D	H	d1	h1	Finished
37005300040	40	26	14	13	Not Polished
37005300050	50	34	18	17	Not Polished
37005300063	63	42	20	21	Not Polished
37005300080	80	52	25	25	Not Polished

370066T**DIN 653 FLAT KNURLED THUMB SCREW**

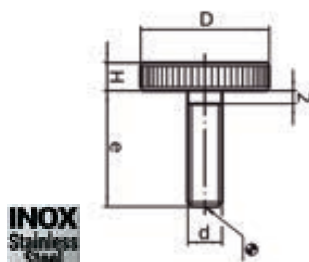
Fe Steel quality 5,8 blackened.
Threaded stud.



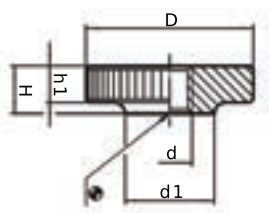
Code	D	H	d	e
37006600073	12	2,5	M3	8
37006600077	12	2,5	M3	16
37006600093	16	3,5	M4	10
37006600096	16	3,5	M4	16
37006600113	20	4	M5	12
37006600117	20	4	M5	20
37006600134	24	5	M6	16
37006600138	24	5	M6	25
37006600154	30	6	M8	20
37006600158	30	6	M8	30
37006600174	36	8	M10	25
37006600180	36	8	M10	40

370066T**STAINLESS STEEL DIN 653 FLAT KNURLED THUMB SCREW**

Stainless steel 1.4305, dull blasted.
Threaded stud.

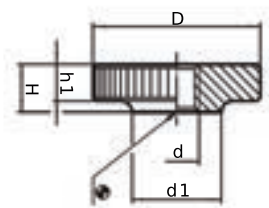


Code	D	H	d	e
37006600293	16	3.5	M4	10
37006600296	16	3.5	M4	16
37006600313	20	4	M5	12
37006600317	20	4	M5	20
37006600334	24	5	M6	16
37006600338	24	5	M6	25
37006600354	30	6	M8	20
37006600358	30	6	M8	30
37006600374	36	8	M10	25
37006600380	36	8	M10	40

370068D DIN 467 FLAT KNURLED NUT

Code	D	H	d	d1	h1
37006800030	12	3	M3	6	2,5
37006800040	16	4	M4	8	3,5
37006800050	20	5	M5	10	4
37006800060	24	6	M6	12	5
37006800080	30	8	M8	16	6
37006800100	36	10	M10	20	8
37006800120	40	12	M12	22	10

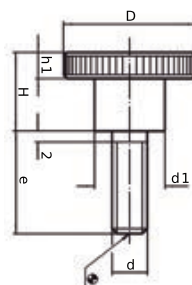
Fe Steel quality 5 blackened.
DIN standards do not include the
item 37006800120.
Female thread drilled out.

370068D STAINLESS STEEL DIN 467 FLAT KNURLED NUT

INOX
Stainless
Steel

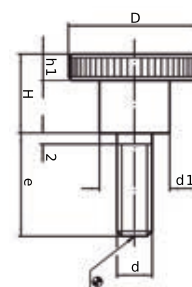
Code	D	H	d	d1	h1
37006800230	12	3	M3	6	2,5
37006800240	16	4	M4	8	3,5
37006800250	20	5	M5	10	4
37006800260	24	6	M6	12	5
37006800280	30	8	M8	16	6
37006800300	36	10	M10	20	8

Stainless steel 1.4305 dull blasted.
Female thread drilled out.

370069T DIN 464 KNURLED THUMB SCREW

Fe Steel quality 5,8 blackened.
Threaded stud.

Code	D	H	d	e	h1	d1
37006900076	12	7,5	M3	10	2,5	6
37006900079	12	7,5	M3	16	2,5	6
37006900095	16	9,5	M4	10	3,5	8
37006900098	16	9,5	M4	16	3,5	8
37006900115	20	11,5	M5	12	4	10
37006900119	20	11,5	M5	20	4	10
37006900136	24	15	M6	16	5	12
37006900142	24	15	M6	30	5	12
37006900154	30	18	M8	16	6	16
37006900160	30	18	M8	30	6	16
37006900175	36	23	M10	25	8	20
37006900181	36	23	M10	40	8	20

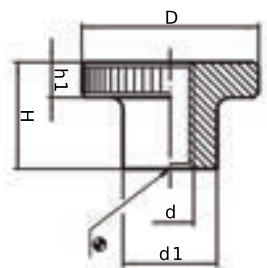
370069T STAINLESS STEEL DIN 464 KNURLED THUMB SCREW

INOX
Stainless
Steel

Code	D	H	d	e	h1	d1
37006900295	16	9,5	M4	10	3,5	8
37006900298	16	9,5	M4	16	3,5	8
37006900315	20	11,5	M5	12	4	10
37006900319	20	11,5	M5	20	4	10
37006900336	24	15	M6	16	5	12
37006900342	24	15	M6	30	5	12
37006900354	30	18	M8	16	6	16
37006900360	30	18	M8	30	6	16

Stainless steel 1.4305 dull blasted.
Threaded stud.

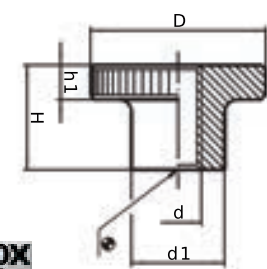
370072D DIN 466 KNURLED NUT



Code	D	H	d	d1	h1
37007200030	12	7,5	M3	6	2,5
37007200040	16	9,5	M4	8	3,5
37007200050	20	11,5	M5	10	4
37007200060	24	15	M6	12	5
37007200080	30	18	M8	16	6
37007200100	36	23	M10	20	8
37007200120	40	25	M12	22	10

Fe Steel quality 5 blackened.
Female thread drilled out.
DIN standards do not include the
item 37007200120.

370072D STAINLESS STEEL DIN 466 KNURLED NUT

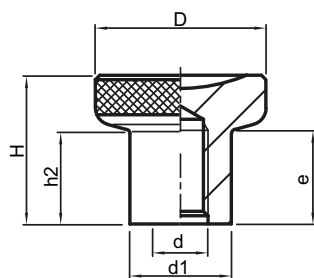


INOX
Stainless
Steel

Code	D	H	d	d1	h1
37007200240	16	9,5	M4	8	3,5
37007200250	20	11,5	M5	10	4
37007200260	24	15	M6	12	5
37007200280	30	18	M8	16	6
37007200300	36	23	M10	20	8

Stainless steel 1.4305 dull blasted.
Female thread drilled out.

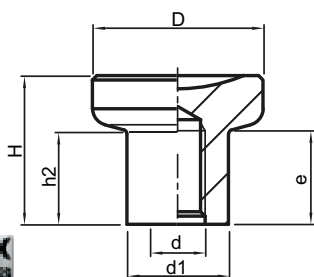
380082 TK KNURLED STEEL KNOB



Code	D	H	h2	d	e	d1
38008200023	21	18	10,5	M5	10	12,5
38008200025	25	22,5	14	M6	12	14,5
38008200028	31	27	17	M8	15	18,5
38008200029	31	27	17	M10	17	18,5

Fe Steel blackened.
Female threaded blind hole.

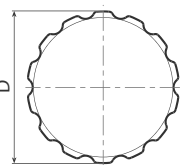
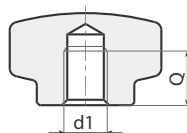
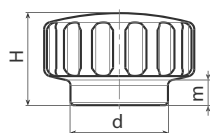
380082 TK KNURLED STAINLESS STEEL KNOB



INOX
Stainless
Steel

Code	D	H	h2	d	e	d1
38008200103	21	18	10,5	M5	10	12,5
38008200105	25	22,5	14	M6	12	14,5
38008200108	31	27	17	M8	15	18,5
38008200109	31	27	17	M10	17	18,5

Stainless steel 1.4305.
Dull blasted.
Female threaded blind hole.

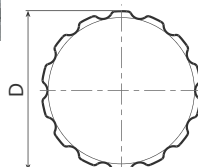
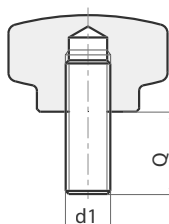
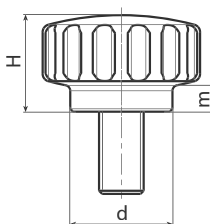
470098C**STAINLESS STEEL KNURLED KNOB WITH THREADED HOLE**
INOX
Stainless
Steel


Code	D	H	d	m	d16H	Q
47009820301	20	13	14	4,5	M5	8
47009824301	24	15	16	4,5	M6	9
47009828301	28	17	18	4,5	M8	10

Female threaded hole (thread tolerance 6H).

Precision-cast stainless steel AISI 304.

Electropolished satin finish.

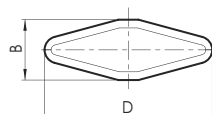
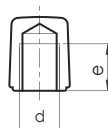
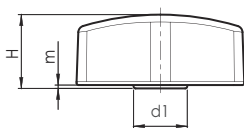
470098T**STAINLESS STEEL KNURLED KNOB WITH THREADED STUD**
INOX
Stainless
Steel


Code	D	H	d	m	d16g	Q
47009820501	20	13	14	4,5	M5	20
47009824501	24	15	16	4,5	M6	20
47009828501	28	17	18	4,5	M8	30

Turned threaded stud (thread tolerance 6g), fixed with glue.

Knob made of precision-cast stainless steel AISI 304, stud made of stainless steel AISI 303.

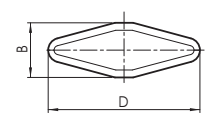
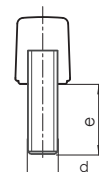
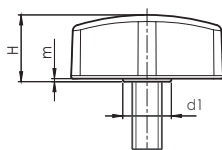
Electropolished satin finish for the knob.

470021K**FULL STAINLESS STEEL WING NUT WITH FEMALE THREADED HOLE**
INOX
Stainless
Steel


Code	D	B	H	m	e	d	d1
47002102351	25	9	11	0,5	6,5	M6	8
47002103351	30	11	13,5	0,5	8	M8	10
47002104351	36	13	15,5	0,5	9	M10	12

Stainless steel AISI 304.

Female threaded hole (Tolerance 6H).

470021T**FULL STAINLESS STEEL WING NUT WITH THREADED STUD**
INOX
Stainless
Steel


Code	D	B	H	m	e	d	d1
47002102551	25	9	11	0,5	16	M6	8
47002102552	25	9	11	0,5	20	M6	8
47002102553	25	9	11	0,5	25	M6	8
47002103551	30	11	13,5	0,5	16	M8	10
47002103552	30	11	13,5	0,5	20	M8	10
47002103553	30	11	13,5	0,5	25	M8	10
47002103554	30	11	13,5	0,5	32	M8	10
47002104551	36	13	15,5	0,5	20	M10	12
47002104552	36	13	15,5	0,5	30	M10	12
47002104553	36	13	15,5	0,5	40	M10	12

Stainless steel AISI 304.

Stainless steel AISI 303 threaded stud

(Tolerance 6g).

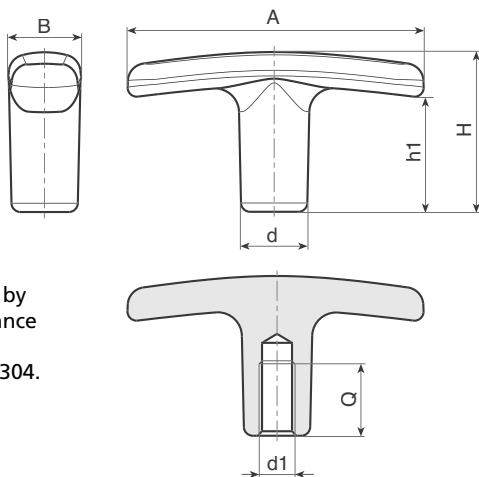
ATTENTION: The stud is fixed with glue.

470099C

FULL STAINLESS STEEL T-HANDLE WITH FEMALE THREADED HOLE



Female threaded hole, obtained by further processing (thread tolerance 6H).
Precision-cast stainless steel AISI 304.
Satin finish.



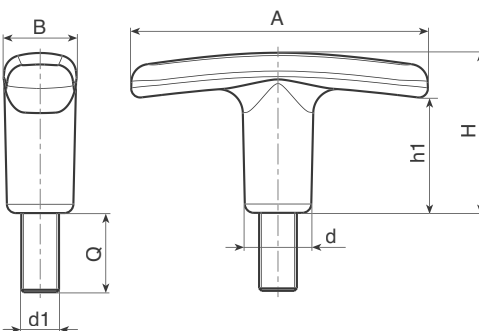
Code	A	B	H	h1	d	d16H	Q
47009950301	50	12	27	19	11	M6	12
47009960301	60	14	34	24	13	M8	16
47009972301	72	16	40	30	15	M8	16
47009972302	72	16	40	30	15	M10	16

470099T

FULL STAINLESS STEEL T-HANDLE WITH THREADED STUD



Turned threaded stud (thread tolerance 6g), fixed with glue.
Knob made of precision-cast stainless steel AISI 304, stud made of stainless steel AISI 303.
Satin finish.



Code	A	B	H	h1	d	d16H	Q
47009950501	50	12	27	19	11	M6	30
47009960501	60	14	34	24	13	M8	30
47009972501	72	16	40	30	15	M8	30
47009972502	72	16	40	30	15	M10	30

370045

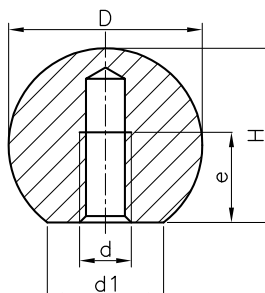
BALL KNOBS SIMILAR TO DIN 319



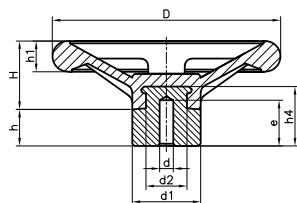
Steel, polished, bright.
Stainless steel 1.4305, dull blasted.
Aluminium, polished.
Molded thread.



Code (Steel)	Code (Stainless-steel)	Code (Aluminium)	D	d	d1	H	e (mín.)
37004510016	37004510216	37004510116	16	M 4	8	15	7
37004510020	37004510220	37004510120	20	M 5	12	18	9
37004510025	37004510225	37004510125	25	M 6	15	22,5	11
37004510032	37004510232	37004510132	32	M 8	18	29	14,5
37004510040	37004510240	37004510140	40	M10	22	37	18
37004510050	-	37004510150	50	M12	27	46	21



110031S FOUR SPOKE HANDWHEEL WITH SMOOTH HOLE HUB

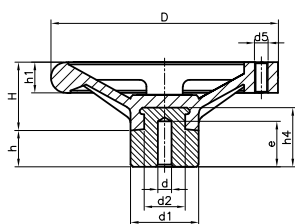


Code	D	H	d	e	d2	h4	d1	h	h1	Color
11003110601	100	31	5,25	20	22	26	30	16	13,5	Black
11003112601	125	37	8	25	28	32	40	22	14	Black
11003115601*	150	50	10	30	30	55	50	30	18	Black
11003117601	175	51	10	30	30	55	50	30	20	Black
11003120601	200	70	10	30	30	55	50	30	26	Black
11003130601*	300	98	10	30	34	60	60	18	30	Black

(*) 5 spokes

Zinc-plated steel hub.
PF: Black duroplast FS 31 DIN 7708.

110031Sa FOUR SPOKE HANDWHEEL WITH SMOOTH HOLE HUB & THREADED SEAT FOR HANDLE

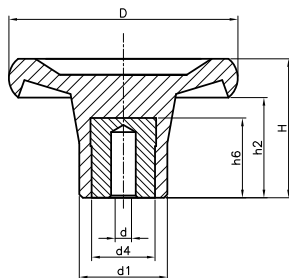


Code	D	H	d	e	d2	h4	d1	h	h1	d5	Color
11003110651	100	31	5,25	20	22	26	30	16	13,5	M6	Black
11003112651	125	37	8	25	28	32	40	22	14	M6	Black
11003115651*	150	50	10	30	30	55	50	30	18	M8	Black
11003117651	175	51	10	30	30	55	50	30	20	M10	Black
11003120651	200	70	10	30	30	55	50	30	26	M12	Black

(*) 5 spokes

Zinc-plated steel hub.
Threaded hole for fixed and giratory handles
codes 110041, 110036 and 110037.
PF: Black duroplast FS 31 DIN 7708.

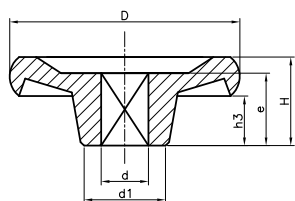
110032H SOLID HANDWHEEL WITH SMOOTH HOLE INSERT



Code	D	H	d	d1	h2	h6	d4	Color
11003204301	45	26,5	5,25	20	17	17	14	Black
11003206302	65	31	5,25	25	20	22	18	Black
11003208302	80	38	5,25	30	25	22	18	Black

Treated steel insert.
PF: Black duroplast FS 31 DIN 7708.

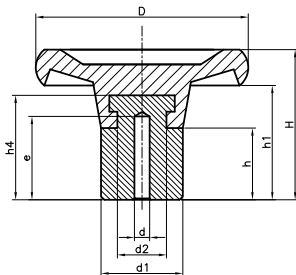
110032P SOLID HANDWHEEL WITH SQUARE HOLE



Code	D	H	d	e	h3	d1	Color
11003206401	65	20	10x10	15	11	26	Black
11003208401	80	21	10x10	15	9	34	Black
11003210401	100	23	10x10	15	5	44	Black
11003212401	125	31	12x12	21	10	40	Black
11003215401	150	32	12x12	21	7	50	Black

Moulded square hole.
PF: Black duroplast FS 31 DIN 7708.

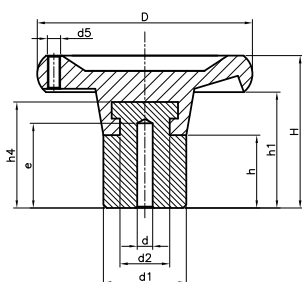
110032S SOLID HANDWHEEL WITH SMOOTH HOLE HUB



Code	D	H	d	e	d2	h4	d1	h	h1	Color
11003204601	45	33	5,25	20	11	20	20	11	21	Black
11003206601	65	39	5,25	22	19	29	25	15	28	Black
11003208601	80	43	5,25	20	22	26	30	16	31	Black
11003210601	100	52	8	25	28	32	40	22	34	Black
11003212601	125	64	8	25	28	32	40	22	43	Black
11003215601	150	82	10	30	35	50	50	30	57	Black
11003217601	175	84	10	30	35	50	50	30	64	Black
11003220601	200	86	10	30	35	50	50	30	64	Black

Zinc-plated steel hub.
PF: Black duroplast FS 31 DIN 7708.

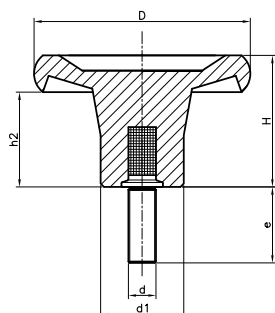
110032Sa SOLID HANDWHEEL WITH SMOOTH HOLE HUB & THREADED SEAT FOR HANDLE



Code	D	H	d	e	d2	h4	d1	h	h1	d5	Color
11003210651	100	52	8	25	28	32	40	25	34	M6	Black
11003212651	125	64	8	25	28	32	40	25	43	M8	Black
11003215651	150	82	10	30	35	50	50	30	57	M10	Black
11003217651	175	84	10	30	35	50	50	30	64	M10	Black
11003220651	200	86	10	30	35	50	50	30	64	M12	Black

Zinc-plated steel hub.
Threaded hole for fixed and giratory handles
codes 110041, 110036 and 110037.
PF: Black duroplast FS 31 DIN 7708.

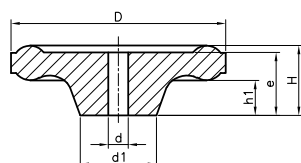
110032T SOLID HANDWHEEL WITH THREADED STUD



Code	D	H	d	e	d1	h2	Color
11003204501	45	26	M8	27	20	16	Black
11003206506	65	30	M10	33	25	19	Black
11003208502	80	37	M12	40	30	24	Black

Treated threaded steel stud.
PF: Black duroplast FS 31 DIN 7708.

110073 Q HANDWHEEL WITH SQUARE HOLE

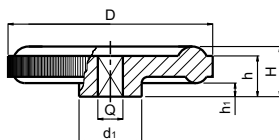


Code	D	H	d	e	d1	h1	Color
11007335201	35	15	5x5	13	13	9	Black
11007350201	50	22	7x7	17	21	10	Black
11007361201	61	20	7x7	18	21	10	Black
11007371201	71	24	7x7	22	27	12	Black
11007371202	71	24	8x8	22	27	12	Black

AVAILABLE UPON REQUEST
MINIMUM QUANTITIES, ASK.

Square hole.
PF: Black duroplast FS 31 DIN 7708.

110074 HEATING CONTROL HANDWHEEL

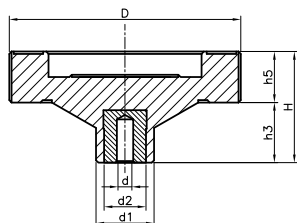


Code	D	H	Q	h	d1	h1	Color
11007449201	49	12	6	8	15	-	Black
11007456201	56	15	7	11,5	20	5	Black

Q = Square hole.

PF: Black duroplast FS 31 DIN 7708.

110083H SIX HANDWHEEL WITH SMOOTH HOLE INSERT



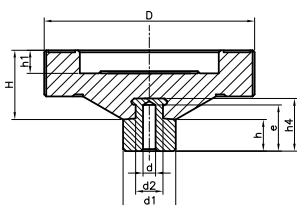
Code	D	H	d	d1	d2	h5	h3	Color
11008306301	65	36	5,25	25	18	15	22	Black
11008308301	80	38	5,25	25	18	16	22	Black

AVAILABLE UPON REQUEST
MINIMUM QUANTITIES, ASK.

Treated steel insert.

PF: Black duroplast FS 31 DIN 7708.

110083S SIX HANDWHEEL WITH SMOOTH HOLE HUB



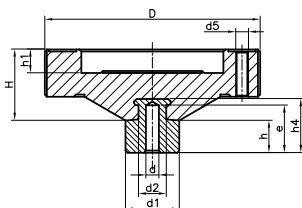
Code	D	H	d	d1	d2	e	h1	h4	h	Color
11008306601	65	30	5,25	25	19	15	10	29	15	Black
11008308601	80	30	5,25	25	19	15	10	29	15	Black
11008310601	100	33	5,25	25	19	15	11	29	15	Black
11008313601	130	33	5,25	30	20	20	11	26	25	Black

AVAILABLE UPON REQUEST
MINIMUM QUANTITIES, ASK.

Zinc-plated steel hub.

PF: Black duroplast FS 31 DIN 7708.

110083Sa SIX HANDWHEEL WITH SMOOTH HOLE HUB & THREADED SEAT FOR HANDLE



Code	D	H	d	d1	d2	d5	e	h1	h4	h	Color
11008310651	100	33	5,25	25	19	M6	15	11	29	15	Black
11008313651	130	33	5,25	30	20	M8	20	11	26	25	Black

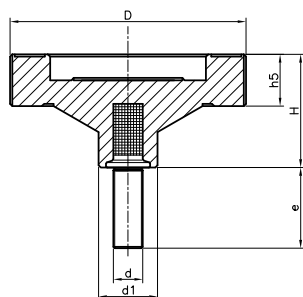
AVAILABLE UPON REQUEST
MINIMUM QUANTITIES, ASK.

Zinc-plated steel hub.

Threaded hole for fixed and giratory handles
codes 110041, 110036 and 110037.

PF: Black duroplast FS 31 DIN 7708.

110083T SIX HANDWHEEL WITH THREADED STUD

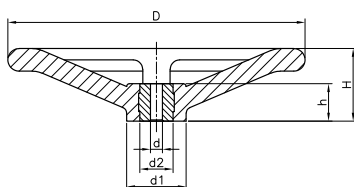


Code	D	H	d	e	d1	h5	Color
11008306501	65	37	M10	33	25	15	Black
11008308502	80	38	M12	40	25	16	Black

AVAILABLE UPON REQUEST
MINIMUM QUANTITIES, ASK.

Treated threaded steel stud.
PF: Black duroplast FS 31 DIN 7708.

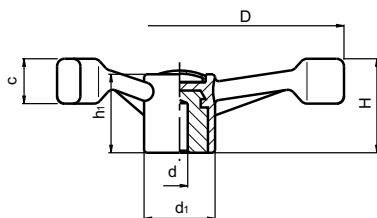
110084D* VALVE HANDWHEEL WITH SMOOTH HOLE INSERT



Code	D	H	d1	d	d2	h	Color
11008412401	128	38	30	10	20	21	Black
11008415401	150	61	34	10	25	31	Black
11008416401	160	50	35	10	25	31	Black
11008420401	200	54	48	10	25	31	Black
11008425401	250	61	50	10	25	31	Black

Treated steel insert.
PF: Black duroplast FS 31 DIN 7708.

470013 THREE ARM HANDWHEEL WITH SMOOTH THROUGH HOLE INSERT



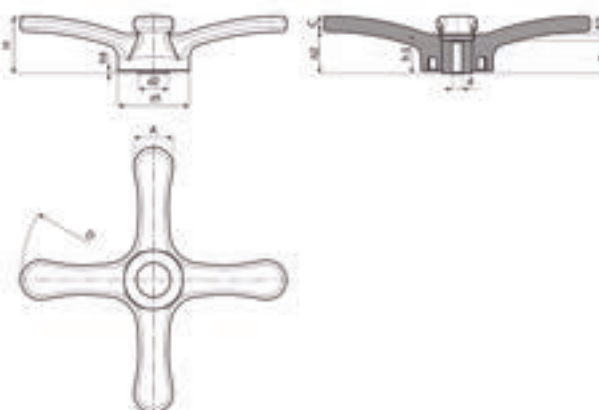
Code	D	H	h1	d1	d	dm	c	Color	Cap
47001314301	137	45	39,5	38	8	22	23	Black	Grey
47001318301	177	56	42,5	38	8	22	24	Black	Grey
47001322301	221	61	46	38	8	22	28	Black	Grey

PA Black reinforced polyamide.
Zinc plated steel right through bored bush.
Central cap colour grey RAL 7035.
dm = maximum diameter to mechanize central bush.
On demand we can supply central cap in diferent colours. For min.
quantities we can supply central bush with keyway or with a thread.

470030H FOUR ARM HANDWHEEL WITH SMOOTH THROUGH HOLE INSERT

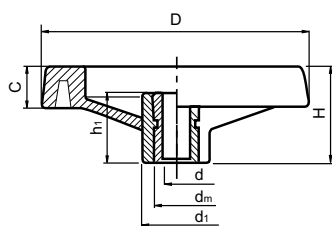


Code	D	H	h1	h4	h2	h3	e	d1	d	dm	d2	C	A	Color	Cap
47003031301	308	66	45,5	3	46	7,5	38	83	8 H11	26	35,5	20	45,5	Black	Grey



PA Black reinforced polyamide.
Zinc plated steel right through bored bush.
Central cap colour: Grey RAL 7035.
dm = maximum diameter to mechanize central bush.
On demand we can supply central cap in different colours. For min. quantities we can supply central bush with keyway.

470031D* HANDWHEEL 2R WITH SMOOTH THROUGH HOLE INSERT



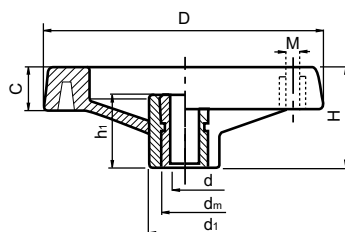
Code	D	H	d1	C	h1	d	dm	Color	Cap
47003108301	80	34	24,5	14	26	5	12	Black	Grey
47003110301	99	43	28	16	33	5	16	Black	Grey
47003113301	129	50	32	20	35,5	5	18	Black	Grey
47003116301	160	57,5	40	23,5	41	8	22	Black	Grey
47003120301	198	61	51	29	39,5	8	22	Black	Grey
47003125301	252	70	56	31,5	47	8	28	Black	Grey
47003135301	349	80	67	36,5	50	8	30	Black	Grey

PA Black reinforced polyamide.
Zinc plated steel right through bored bush.
Central cap in grey RAL 7035.
dm=maximum diameter to mechanize central bush.

470031D*a HANDWHEEL 2R WITH SMOOTH THROUGH HOLE INSERT & SEAT FOR HANDLE



Code	D	H	M	d1	C	h1	d	dm	Color	Cap
47003108701	80	34	M6	24,5	14	26	5	12	Black	Grey
47003110701	99	43	M6	28	16	33	5	16	Black	Grey
47003113701	129	50	M8	32	20	35,5	5	18	Black	Grey
47003116701	159	57	M8	40	24	41	8	22	Black	Grey
47003120701	198	61,5	M8	51	28	39,5	8	22	Black	Grey
47003125702	252	70	M10	56	32	48	8	28	Black	Grey
47003135701	346	80	M10	67	37	50	8	30	Black	Grey

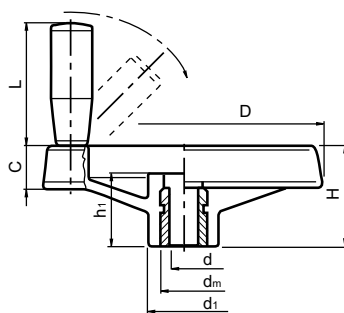
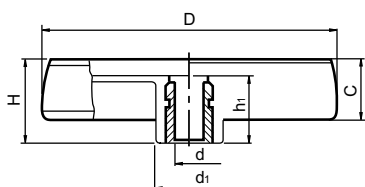


PA Black reinforced polyamide.
Zinc plated steel right through bored bush.
Central cap in grey RAL 7035.
dm=maximum diameter to mechanize central bush.
M= Thread for handle, recommended handles 470033, 470034 and 470035 (not included with the handwheel).

470031D_m**HANDWHEEL 2R WITH SMOOTH THROUGH HOLE INSERT
& FOLD AWAY REVOLVING HANDLE**

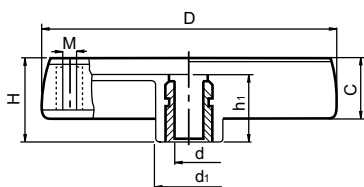
PA Black reinforced polyamide.
Zinc plated steel right through bored bush.
Central cap in grey RAL 7035.
dm=maximum diameter to mechanize central bush.
Fold away revolving handle mounted on the handwheel.

Code	D	H	d1	C	h1	d	dm	L	Color	Cap
47003113801	129	53	32	23	32	5	18	58	Black	Grey
47003116801	159	55	40	24	33,5	5	22	71	Black	Grey
47003135801	346	80	67,5	37	49,5	8	30	64	Black	Grey

**470032D *****SOLID CONTROL HANDWHEEL WITH SMOOTH
THROUGH HOLE INSERT**

Code	D	H	d1	C	h1	d	dm	Color	Cap
47003208301	81	33	25	17	29	5	12	Black	Grey
47003210301	100	39	30	20,5	34	5	16	Black	Grey
47003212301	125	44	36	24	37	5	18	Black	Grey
47003215301	150	54	38	29	44	8	22	Black	Grey
47003217301	173	57	40	31,5	47	8	22	Black	Grey
47003220301	202	59	44	35	49	8	28	Black	Grey
47003225301	249	68	59	39	58	8	28	Black	Grey

PA Black reinforced polyamide.
Zinc plated steel right through bored bush.
Central cap in grey RAL 7035.
dm=maximum diameter to mechanize central bush.

470032D * a**SOLID CONTROL HANDWHEEL WITH SMOOTH THROUGH
HOLE INSERT & SEAT FOR HANDLE**

Code	D	H	d1	C	h1	d	M	dm	Color	Cap
47003208701	81	33	25	17	29	5	M6	12	Black	Grey
47003210701	100	39	30	20,5	34	5	M6	16	Black	Grey
47003212701	125	44	36	24	37	5	M8	18	Black	Grey
47003215701	150	54	38	29	44	8	M10	22	Black	Grey
47003217701	173	57	40	31,5	47	8	M10	22	Black	Grey
47003220701	202	59	44	35	49	8	M10	28	Black	Grey
47003225701	249	68	59	39	58	8	M10	28	Black	Grey

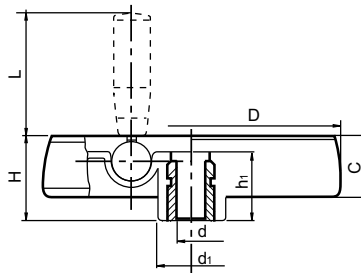
PA Black reinforced polyamide.
Zinc plated steel right through bored bush.
Central cap in grey RAL 7035.
dm=maximum diameter to mechanize central bush.
M: Threaded seat for handles 470033, 470034 and 470035 (not included with the handwheel).

470032D* mp**SOLID CONTROL HANDWHEEL WITH SMOOTH THROUGH HOLE & FOLD AWAY REVOLVING HANDLE**

PA Black reinforced polyamide.
Zinc plated steel right through bored bush.
Central cap in grey RAL 7035.
dm=maximum diameter to mechanize central bush.
Fold away revolving handle mounted on the handwheel.

Code	D	H	d1	C	h1	d	dm	L	Color	Cap
*47003208781	80	33	25	18	29	5	12	38	Black	Grey
*47003210781	100	42	30	24	36	5	16	48	Black	Grey
47003212781	124	48	36	26,5	40	5	18	38	Black	Grey
47003215781	149	53	38	28,5	44	8	22	58	Black	Grey
47003217781	174	58	40	33,5	48	8	28	80	Black	Grey
47003220781	198	63	44	38,5	53	8	28	90	Black	Grey
47003225781	250	67	60	38	58	8	28	90	Black	Grey

* End of the handle folded over the center of the handwheel.

**470071****SOLID CONTROL HANDWHEEL WITH INDICATOR SEAT AND REVOLVING HANDLE**

PA Black reinforced polyamide resistant to oils and greases.
Galvanised steel insert with smooth through bore (tolerance H10).
Brass insert with threaded through hole for the handle.
Revolving handle included.
Use **gravity indicators 470085**. **The indicator and its fixing grub screw (d7) are to be purchased separately.**
Upon request can be supplied the indicator mounted to the handwheel.
See combinations diameters/indicators:

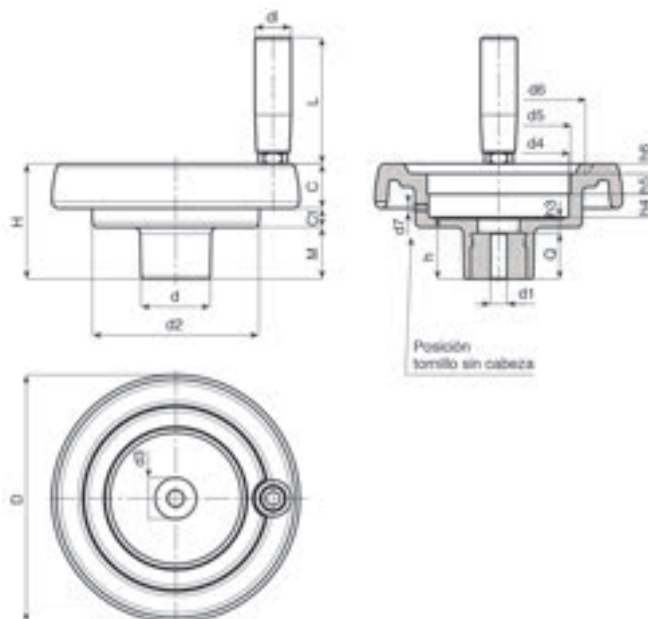
d5= 52,4 - indicator 4700855...

d5= 87,4 - indicator 4700858...

(*) With adapter 470079 it is possible to use indicator 4700855...

Code	D	H	d	d2	M	C	C1	d3	d4	d5	d6
47007108000	86	53	32	62	21	17	15	20	50,8	52,4	63
47007110000	99	55,5	32	63	23,5	20,5	11,5	20	50,8	52,4	68
47007113000	129	64,5	42	100	27,5	23	14	29	85,7	87,4*	90
47007115000	149	69	42	101	31	25,5	12,5	29	85,7	87,4*	106
47007117000	175	72	40	115	28,5	32	11,5	25	85,7	87,4*	126,5
47007120000	199	71	46	137	24	32	15	29	85,7	87,4*	144

Code	d7	h	h3	h4	h5	h6	d1	L	Dm	d1 H10	Q
47007108000	M6	26,5	6,5	11,5	12	3	20	56	12	5,8	20
47007110000	M6	29	9	11,5	12	3,5	20	56	12	6,8	20
47007113000	M6	34	10	13,5	12,5	5	21	65	20	6,8	24
47007115000	M6	37	9	13,5	12,5	6,5	23	76	20	6,8	28
47007117000	M6	38	10	12,5	14	8	25	86	20	6,8	28
47007120000	M6	34	11	13,5	12,5	10	25	86	22	6,8	23



470072

SOLID CONTROL HANDWHEEL WITH INDICATOR SEAT, REVOLVING HANDLE AND LOCKING KNOB



Code	D	H	d	d2	M	C	C1	d3	d4	d5	d6
47007213000	129	64,5	42	100	27,5	23	14	29	85,7	87,4*	90
47007215000	149	69	42	101	31	25,5	12,5	29	85,7	87,4*	106
47007217000	175	72	40	115	28,5	32	11,5	25	85,7	87,4*	126,5
47007220000	199	71	46	137	24	32	15	29	85,7	87,4*	144

Code	d7	h	h3	h4	h5	h6	R	d8	d1	L	Dm	d1 H10	Q
47007213000	M6	34	10	13,5	12,5	5	54	M8	21	65	20	6,8	24
47007215000	M6	37	9	13,5	12,5	6,5	57	M8	23	76	20	6,8	28
47007217000	M6	38	10	12,5	14	8	60	M8	25	86	20	6,8	28
47007220000	M6	34	11	13,5	12,5	10	74	M8	25	86	22	6,8	23

PA Black reinforced polyamide resistant to oils and greases.
Galvanised steel insert with smooth through bore (tolerance H10).
Brass insert with threaded through hole for the handle.
Revolving handle included.

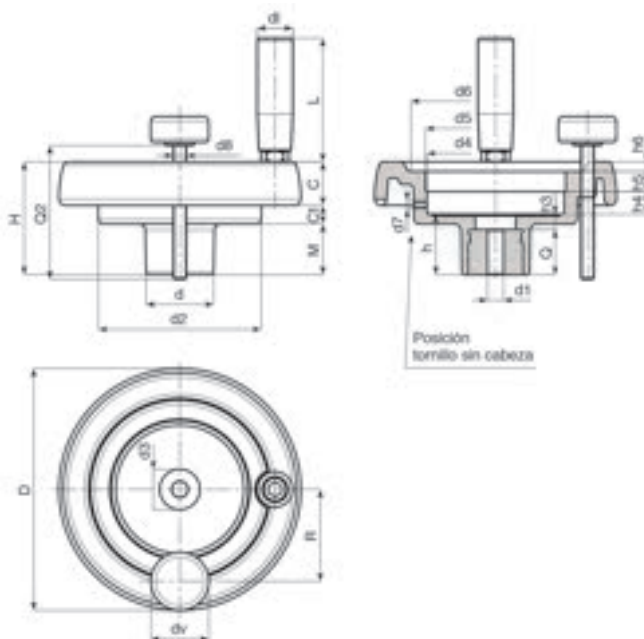
Locking knob included. ATTENTION: dimension Q2 of the locking handwheel must be chosen by the customer based on the dimensions of the machinery on which the handwheel is applied.

Use **gravity indicators 470085. The indicator and its fixing grub screw (d7) are to be purchased separately.**
Upon request can be supplied the indicator mounted to the handwheel.

See combinations diameters/indicators:

d5= 87,4 - indicator 4700858...

(*) With adapter 470079 it is possible to use indicator 4700855...



470078

SOLID CONTROL HANDWHEEL WITH INDICATOR SEAT



PA Black reinforced polyamide resistant to oils and greases.
Galvanised steel insert with smooth through bore (tolerance H10).

Use **gravity indicators 470085. The indicator and its fixing grub screw (d7) are to be purchased separately.**

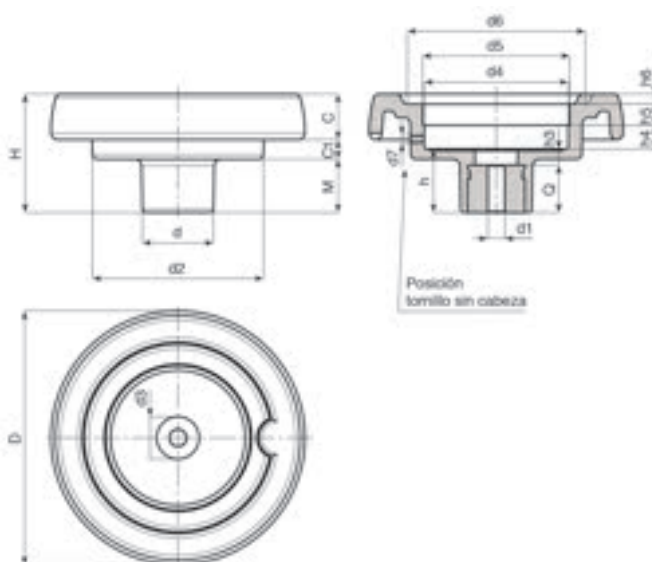
Upon request can be supplied the indicator mounted to the handwheel.

See combinations diameters/indicators:

d5= 52,4 - indicator 4700855...

d5= 87,4 - indicator 4700858...

(*) With adapter 470079 it is possible to use indicator 4700855...



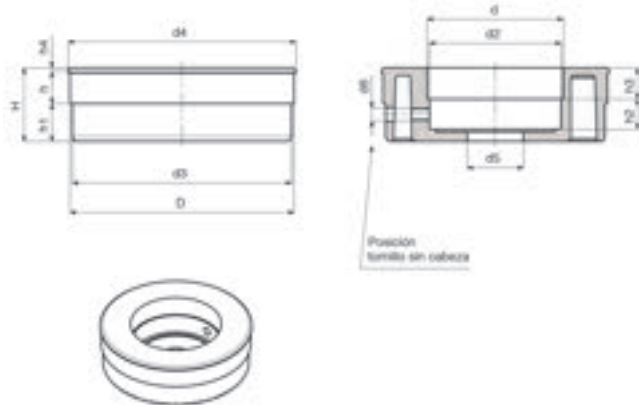
Code	D	H	d	d2	M	C	C1	d3	d4	d5	d6	d7	h	h3	h4	h5	h6	Dm	d1 H10	Q
47007808001	86	53	32	62	21	17	15	20	50,8	52,4	63	M6	26,5	6,5	11,5	12	3	12	5,8	20
47007810001	99	55,5	32	63	23,5	20,5	11,5	20	50,8	52,4	68	M6	29	9	11,5	12	3,5	12	6,8	20
47007813001	129	64,5	42	100	27,5	23	14	29	85,7	87,4*	90	M6	34	10	13,5	12,5	5	20	6,8	24
47007815001	149	69	42	101	31	25,5	12,5	29	85,7	87,4*	106	M6	37	9	13,5	12,5	6,5	20	6,8	28
47007817001	175	72	40	115	28,5	32	11,5	25	85,7	87,4*	126,5	M6	38	10	12,5	14	8	20	6,8	28
47007820001	199	71	46	137	24	32	15	29	85,7	87,4*	144	M6	34	11	13,5	12,5	10	22	6,8	23

470079

ADAPTER FOR INDICATOR



Code	D	d	d2	d3	d4	d5	d6	H	h	h1	h2	h3	h4
47007908001	87,4	52,4	51,5	85,5	89	22	M06	28,5	14	14,5	11,8	12,2	2



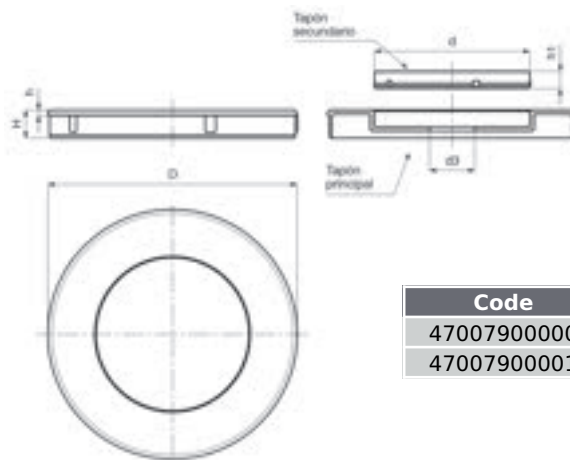
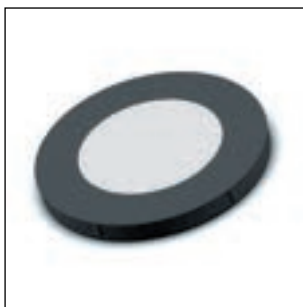
PA Black reinforced polyamide resistant to oils and greases.

Alternative adapter colours: Orange, Blue, Yellow, Red, Green or Grey.

Indicator grub screw not supplied.

470079

CAP FOR INDICATOR SEAT



PA Black reinforced polyamide resistant to oils and greases.

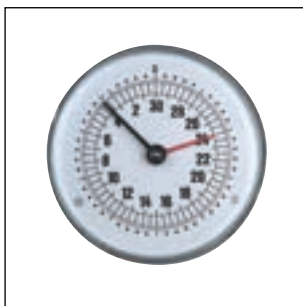
Central circle on grey. Alternative adapter colours: Orange, Blue, Yellow, Red or Green.

Push-fit. Removable.

Code	D	d	d3	H	h	h1
47007900000	52,4	34	10	8	2	5
47007900001	87,4	55	16	10	2	6

470085

GRAVITY POSITION INDICATOR



Indicator case made of black reinforced polyamide resistant to oils and greases. Sealed to dust.

Polymethylmethacrylate (PMMA) transparent cover.

Graduated scale:

Graduated scale printed in black. With standard graduation, with start and end of the scale combined with the chosen gear ratio. For example, with a gear ratio of 20 the first number of the scale will be 0 and the last number will be 20. Progression of numbers clockwise or counterclockwise depending on the chosen direction of rotation.

Pointers (x):

The indicator can be supplied with one or two pointers:

- 1 = One pointer that spins according to the gear ratio.
- 2 = One pointer turns according to the gear ratio, whereas the second one turns with a ratio of 1:1.

Rotation direction (y):

0 = increase of values with clockwise rotation.

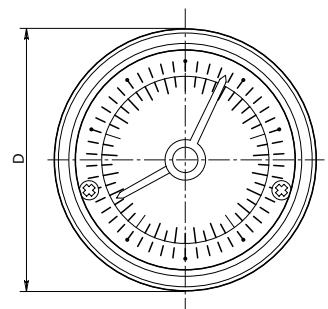
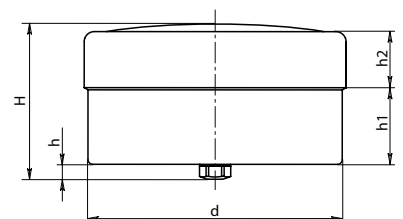
1 = increase of values with counter clockwise rotation.

Gear ratio (zz):

The gear ratio determines the distance to be covered in a given number of revolutions. For example, with a single indicator pointer and a gear ratio of 20, the gear-driven pointer will travel the 360° of the scale every 20 turns of the handwheel, that is, the total setting distance must fall within a single turn of the pointer.

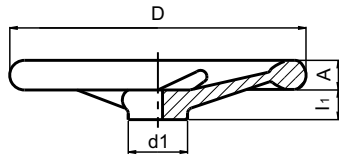
When ordering, please you must indicate the number of pointers, the rotation direction and the gear ratio.

Example: For a position indicator with 51,7mm diameter, with one pointer (x=1), clockwise rotation (y=0) and gear ratio of 6 (zz=06), the complete code is **47008551006**. (For gear ratio 100 zz=00).



Code	D	d	H	h	h1	h2	zz
4700855xyzz	51,7	50,2	29,2	4,2	14,7	11,5	1-2-3-6-10-12-15-18-20-24-30-36-48-50-60-72-84-96-100
4700857xyzz	66,8	65	28,5	5	16,2	11,3	1-2-3-6-10-12-15-18-20-24-30-36-48-50-60-72-84-96-100
4700858xyzz	86,8	84,8	29,8	5	15,6	12,7	1-2-3-6-10-12-15-18-20-24-30-36-48-50-60-72-84-96-100

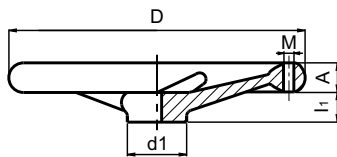
330001G* DIN 950 - A4 ALUMINIUM



AL Aluminium, polished.
Central bore Ø5 to 10mm.
Upon request available with keyway.

Code	D	d1	l1	A	Nº spokes	Finished
33000108101	80	24	16	14	3	Polished
33000110101	100	26	17	15	3	Polished
33000112101	125	28	18	16	3	Polished
33000114101	140	30	19	17	3	Polished
33000116101	160	32	20	18	3	Polished
33000118101	180	40	22	20	3	Polished
33000120101	200	38	24	22	3	Polished
33000122101	225	42	26	24	5	Polished
33000125101	250	45	28	26	5	Polished
33000128101	280	50	30	26	5	Polished
33000131101	315	53	33	28	5	Polished
33000136101	360	61	35	30	5	Polished
33000140101	400	65	38	32	5	Polished
33000150101	500	78	45	34	5	Polished

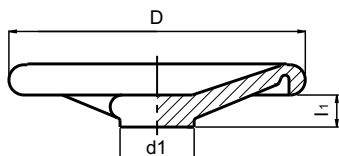
330001G*a DIN 950 - A4 ALUMINIUM WITH SEAT FOR HANDLE



AL Aluminium, polished.
Central bore Ø5 to 10mm.
M: Thread for handle, recommended codes:
330011, 330012 o 330013.
Upon request available with keyway.

Code	D	d1	l1	A	Nº spokes	M	Finished
33000108151	80	24	16	14	3	M6	Polished
33000110151	100	26	17	15	3	M6	Polished
33000112151	125	28	18	16	3	M8	Polished
33000114151	140	30	19	17	3	M8	Polished
33000116151	160	32	20	18	3	M10	Polished
33000118151	180	40	22	20	3	M10	Polished
33000120151	200	38	24	22	3	M10	Polished
33000122151	225	42	26	24	5	M10	Polished
33000125151	250	45	28	26	5	M12	Polished
33000128151	280	50	30	26	5	M12	Polished
33000131151	315	53	33	28	5	M12	Polished
33000136151	360	61	35	30	5	M12	Polished
33000140151	400	65	38	32	5	M16	Polished
33000150151	500	78	45	34	5	M16	Polished

330004G* HR-RI ALUMINIUM HANDWHEEL

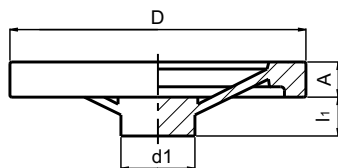


AL Aluminium, not polished.
Central bore Ø5 to 10mm.
Rim slightly polished.
On the surface is written: OUVERT - FERME, OPEN - CLOSED.

Code	D	d1	l1	Nº spokes	Finished
33000410101	100	26	17	3	Not Polished
33000412101	125	40	18	3	Not Polished
33000414101	140	40	19	3	Not Polished
33000416101	160	40	20	3	Not Polished
33000420101	200	45	22	3	Not Polished
33000422101	225	55	26	5	Not Polished
33000425101	250	55	26	5	Not Polished
33000431101	315	60	30	5	Not Polished

330005G* ZPK 2 SPOKE ALUMINIUM HANDWHEEL

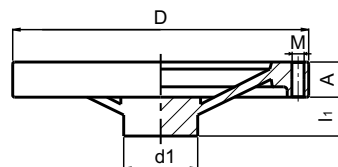
AL Aluminium, polished.
Central bore Ø5 to 10mm.
Available with keyway.



Code	D	d1	l1	A	Finished
33000508101	80	26	16	14	Polished
33000510101	100	30	17	15	Polished
33000512101	125	35	18	16	Polished
33000516101	160	40	20	18	Polished
33000520101	200	45	24	21	Polished
33000525101	250	50	28	24	Polished

330005G*a ZPK 2 SPOKE ALUMINIUM HANDWHEEL WITH SEAT FOR HANDLE

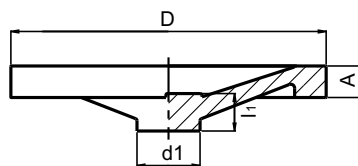
AL Aluminium, polished.
Central bore Ø5 to 10mm.
M: Thread for handle, recommended codes: 110036,
110037, or 370038.
Available with keyway.



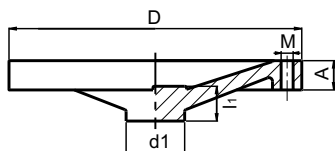
Code	D	d1	l1	A	M	Finished
33000508151	80	26	16	14	M6	Polished
33000510151	100	30	17	15	M6	Polished
33000512151	125	35	18	16	M8	Polished
33000516151	160	40	20	18	M10	Polished
33000520151	200	45	24	21	M10	Polished
33000525151	250	50	28	24	M12	Polished

330008G* SGF-GH SOLID ALUMINIUM HANDWHEEL

AL Aluminium, polished.
Central bore Ø5 to 10mm.
Available with keyway.



Code	D	d1	l1	A	Finished
33000808101	80	25	16	16	Polished
33000810101	100	28	17	18	Polished
33000812101	125	30	18	20	Polished
33000814101	140	32	19	22	Polished
33000816101	160	40	20	23	Polished
33000820101	200	50	24	26	Polished
33000825101	250	50	28	30	Polished

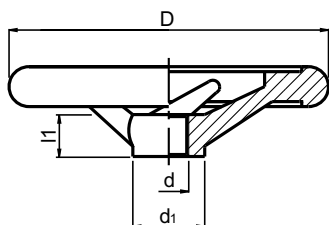
330008G* a**SGF-GH SOLID ALUMINIUM HANDWHEEL WITH SEAT FOR HANDLE**

Code	D	d1	l1	A	M	Finished
33000808151	80	25	16	16	M6	Polished
33000810151	100	28	17	18	M6	Polished
33000812151	125	30	18	20	M8	Polished
33000814151	140	32	19	22	M8	Polished
33000816151	160	40	20	23	M10	Polished
33000820151	200	50	24	26	M10	Polished
33000825151	250	50	28	30	M12	Polished

AL Aluminium, polished.
Central bore Ø5 to 10mm.

M: Thread for handle, recommended codes: 110036, 110037, or 370038.

Available with keyway.

370001G***DIN 950-A4 CAST IRON**

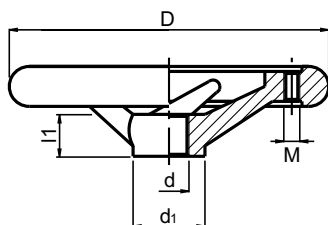
Code	D	d1	l1	d	N° spokes
37000108101	80	24	16	10	3
37000110101	100	26	17	10	3
37000112101	125	28	18	12	3
37000114101	140	30	19	14	3
37000116101	160	32	20	14	3
37000120101	200	38	24	18	3
37000125101	250	45	28	22	5
37000131101	315	53	33	26	5
37000140101	400	65	38	30	5

FE Cast iron.

Central crossing bore.

Clearly debured and hub machined.

Available with keyway.

370001G* a**DIN 950-A4 CAST IRON WITH SEAT FOR HANDLE**

Code	D	d1	l1	d	M	N° spokes
37000108151	80	24	16	10	M6	3
37000110151	100	26	17	10	M6	3
37000112151	125	28	18	12	M8	3
37000114151	140	30	19	14	M8	3
37000116151	160	32	20	14	M10	3
37000120151	200	38	24	18	M10	3
37000125151	250	45	28	22	M12	5
37000131151	315	53	33	26	M12	5
37000140151	400	65	38	30	M16	5

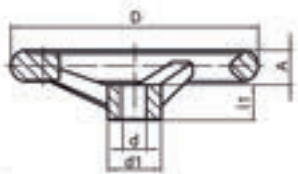
FE Cast iron.

Central crossing bore.

Clearly debured and hub machined.

M: Thread for handle, recommended codes: 370010 ó 370012.

Available with keyway.



Code	D	d1	l1	d	A	Nº spokes
37000110201	100	25,5	17	10	14,5	3
37000112201	125	27,0	18	12	15,8	3
37000114201	140	29,0	19	14	17,0	3
37000116201	160	31,0	20	14	17,5	3
37000120201	200	37,0	24	18	20,0	3

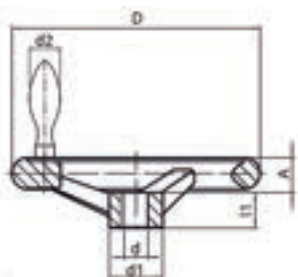
Stainless steel A4.

Similar to DIN 950. 3 spokes.

Hub machined

Rim polished.

Upon request available with keyway.

INOX
Stainless
Steel

Code	D	d1	l1	d	A	d2	Nº spokes
37000110281	100	25,5	17	10	14,5	16	3
37000112281	125	27,0	18	12	15,8	20	3
37000114281	140	29,0	19	14	17,0	20	3
37000116281	160	31,0	20	14	17,5	25	3
37000120281	200	37,0	24	18	20,0	25	3

Stainless steel A4.

Similar to DIN 950, with fix handle. 3 spokes.

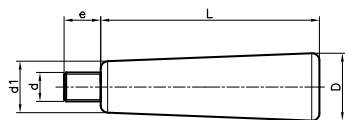
Hub machined

Rim polished.

Upon request available with keyway.

INOX
Stainless
Steel

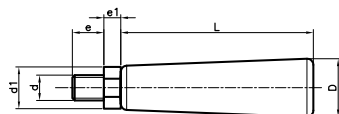
110036 FIXED HANDLE WITH THREADED STUD



Code	D	d	d1	L	e	Color
11003620501	20	M6	13	45	15	Black
11003624501	24	M8	16	53	15	Black
11003625501	25	M10	19	76	15	Black
11003628501	28	M12	21	92	15	Black

Treated threaded steel stud.
PF: Black duroplast FS 31 DIN 7708.

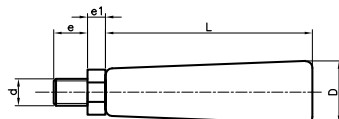
110037 REVOLVING HANDLE WITH THREADED STUD



Code	D	d	d1	L	e	e1	Color
11003720501	20	M6	13	45	12	5	Black
11003724501	24	M8	16	53	15	5,5	Black
11003725501	25	M10	19	76	15	6,5	Black
11003728501	28	M12	21	92	15	7	Black

Treated threaded steel stud.
PF: Black duroplast FS 31 DIN 7708.

110040 KNURLED REVOLVING HANDLE



Code	D	L	d	e	e1	Color
11004015501	15	50	M6	11	5	Black
11004017501	17	60	M8	13	6	Black
11004020501	20	70	M10	18	7	Black
11004023501	23	80	M12	19	8	Black

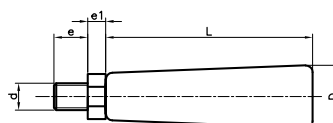
Treated threaded steel stud..
Black polyamide

110041 REVOLVING PLAIN HANDLE WITH THREADED STUD



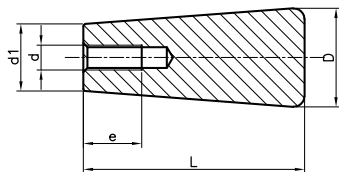
Code Black	Code Red	Code Grey	D	L	d	e	e1
11004115501	11004115551	11004115591	15	50	M6	11	5
11004117501	11004117551	11004117591	17	60	M8	13	6
11004120501	11004120551	11004120591	20	70	M10	18	7
11004123501	11004123551	11004123591	23	80	M12	19	8

Treated threaded steel stud.
Black PP
Caps in the following colours: Black, red and grey.



	RAL 7021 Black
	RAL 7047 Grey
	RAL 3001 Red

110044C TAPERED HAND KNOB WITH THREADED HOLE

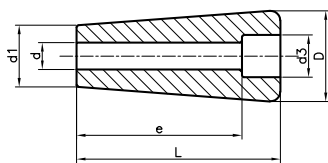


Code	D	L	d	e	d1	Color
11004410101	10	85	W 5/32"	10	8	Black
11004413101	13	30	M5	10	10	Black
11004420101	20	45	M6	14	13	Black
11004424101	24	53	M6	14	16	Black
11004425101	25	76	M8	20	19	Black
11004428101	28	92	M10	22	21	Black
11004430101	30	132	M12	25	23,5	Black

Molded thread.

PF: Black duroplast FS 31 DIN 7708.

110044P TAPERED HAND KNOB WITH SMOOTH DRILL OUT HOLE

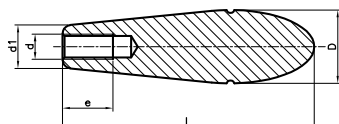


Code	D	L	d	e	d1	d3	Color
11004413201	13	30	5	23,2	10	8,5	Black
11004415201	15	50	6	40	12	8,8	Black
11004417201	17	60	8	48	14	10	Black
11004420201	20	45	6	37,5	13	9,7	Black
11004421201	20	70	8	56	16	10,8	Black
11004423201	23	80	10	65	18,5	14	Black
11004424201	24	53	7	43	16	11	Black

Molded hole.

PF: Black duroplast FS 31 DIN 7708.

110045 BR HAND KNOB WITH THREADED HOLE

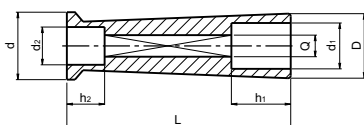


Code	D	L	d	e	d1	Color
11004535101	35	95	M12	24	20	Black
11004539101	35	120	M12	24	20	Black

Molded thread.

PF: Black duroplast FS 31 DIN 7708.

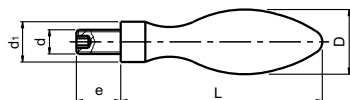
110075 SQUARE DRILL OUT HANDLE



Code	D	L	Q	d	d1	h1	d2	h2	Color
11007524201	24	83	8x8	25	17	22	14	20	Black
11007528201	28	90	10x10	28	18	25	14	20	Black

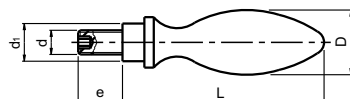
Q = Square drill out hole.

PF: Black duroplast FS 31 DIN 7708.

330011 DIN 39-E FIXED POLYAMIDE HANDLE WITH THREADED STUD

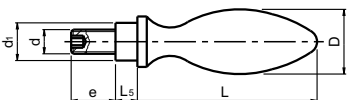
Code	D	d	d1	L	e	Color
33001120501	20	M8	13	64	13	Black
33001125501	25	M10	16	80	14	Black
33001132501	32	M12	20	100	16	Black

Threaded steel stud.
PA Reinforced polyamide.

330012 DIN 98-E REVOLVING ALUMINIUM HANDLE WITH THREADED STUD

Code	D	d	d1	L	e	Finished
33001216501	16	M6	10	54,5	11	Polished
33001220501	20	M8	13	67	13	Polished
33001225501	25	M10	16	83	14	Polished
33001232501	32	M12	20	105,5	21	Polished
33001236501	36	M16	22	117	26	Polished

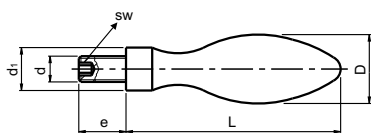
Threaded steel stud.
AL: Aluminium, polished.

330013 DIN 98-E REVOLVING POLYAMIDE HANDLE WITH THREADED STUD

Code	D	d	d1	L	e	L5	Color
33001316501	16	M6	10	49	11	5,5	Black
33001320501	20	M8	13	61	13	6	Black
33001325501	25	M10	16	75	14	8	Black
33001332501	32	M12	20	95	21	10,5	Black

Threaded steel stud.
PA: Reinforced polyamide.

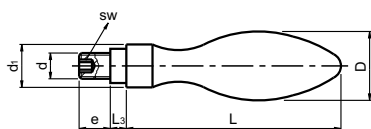
370010 DIN 39-E FIXED STEEL HANDLE WITH THREADED STUD



Code	D	L	d	d1	e	sw	Finished
37001016506	16	50	M6	10	11	3	Polished
37001020508	20	64	M8	13	13	4	Polished
37001025510	25	80	M10	16	14	5	Polished
37001032512	32	100	M12	20	21	6	Polished
37001036516	36	112	M16	22	26	8	Polished

Threaded steel stud.
FE Steel, turned, zinc plated.

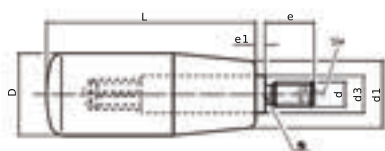
370012 DIN 98-E REVOLVING STEEL HANDLE WITH THREADED STUD



Code	D	d	d1	L	e	L3	sw	Finished
37001216506	16	M6	14	49	11	5,5	3	Polished
37001220508	20	M8	18	61	13	6	4	Polished
37001225510	25	M10	21	75	14	8	5	Polished
37001232512	32	M12	26	95	21	10,5	6	Polished
37001236516	36	M16	29	106	26	11	8	Polished

Threaded steel stud.
FE Steel, turned, zinc plated.

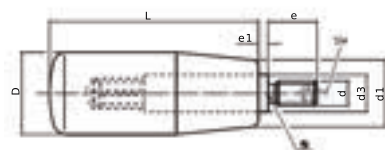
370038 REVOLVING HANDLE WITH THREADED STUD



Code	D	L	d1	d3	d	e	e1	sw	Color
37003800010	18	40	15	10	M6	12	2,5	3	Black
37003800020	21	50	17	10	M6	13	2,5	3	Black
37003800031	22	56	18	10	M8	13	2,5	4	Black
37003800041	23	65	19	13	M10	14	2,5	5	Black
37003800051	26	80	21	13	M10	16	2,5	5	Black
37003800071	31	102	25	14	M12	20	2,5	6	Black

Treated threaded steel stud.
PF: Black duroplast FS 31 DIN 7708.

370038 REVOLVING HANDLE WITH THREADED STAINLESS STEEL STUD



INOX
Stainless Steel

Code	D	L	d1	d3	d	e	e1	sw	Color
37003800210	18	40	15	10	M6	12	2,5	3	Black
37003800220	21	50	17	10	M6	13	2,5	3	Black
37003800240	23	65	19	13	M8	14	2,5	4	Black
37003800251	26	80	21	13	M10	16	2,5	5	Black
37003800271	31	102	25	14	M12	20	2,5	6	Black

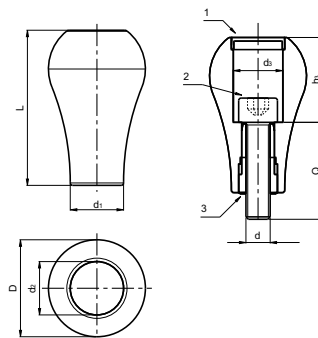
Threaded stainless steel stud.
PF: Black duroplast FS 31 DIN 7708.

470008 EM REVOLVING HANDLE WITH SCREW

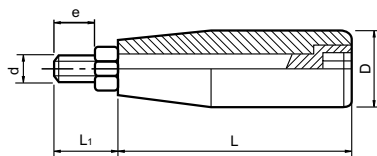


Code	D	d	L	d1	d2	d3	Q	h3	Color	Cap
47000806010	40	M10	64	22,5	22	20,5	40	34,5	Black	Grey

PA Black reinforced polyamide.
 (1) Grey cap (RAL 7035).
 (2) DIN 912 steel zinc-coated screw.
 (3) Internal bush.
 Supplied not mounted.



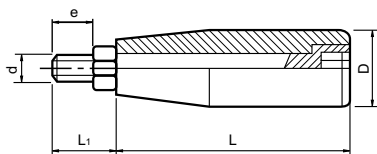
470033 REVOLVING HANDLE TRCA 144 WITH THREADED STUD



Code	D	d	L	L1	e	Color
47003305006	19	M6	49	15	9	Black
47003306008	21	M8	59	21	14	Black
47003307008	23,5	M8	68,5	24	15,5	Black
47003308010	25,5	M10	79	23	15	Black
47003309012	27,5	M12	89,5	24	18	Black

Threaded steel stud blackened.
 PA: Black reinforced polyamide.

470033 REVOLVING HANDLE TRCA 144 WITH THREADED STAINLESS STEEL STUD



Code	D	d	L	L1	e	Color
47003305106	19	M6	49	15	9	Black
47003306108	21	M8	59	21	14	Black
47003307108	23,5	M8	68,5	24	15,5	Black
47003308110	25,5	M10	79	23	15	Black
47003309112	27,5	M12	89,5	24	18	Black

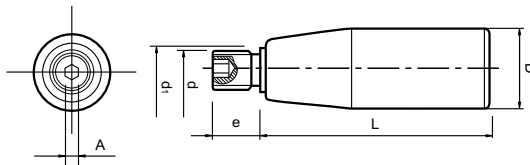
PA Black reinforced polyamide.
 Threaded stainless steel stud AISI 304
 (Nut AISI 303).

470034 REVOLVING HANDLE TMP WITH THREADED STUD



PA Black reinforced polyamide.
Zinc-coated steel stud.

Code	D	d1	d	L	e	A	Color
47003405006	20	10	M6	52	12	3	Black
47003406008	23,5	10	M8	62,5	15	4	Black
47003407008	25	10	M8	72	15	4	Black
47003407010	25	10	M10	72	15	4	Black
47003408010	26	14	M10	81,5	15	5	Black
47003409012	28	14	M12	92	15	5	Black



470035 REVOLVING AND FOLD AWAY HANDLE WITH THREADED STUD



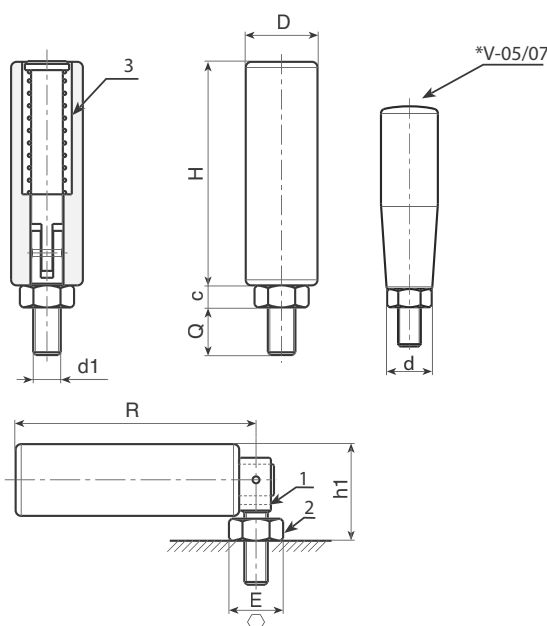
INOX
Stainless Steel

PA Black reinforced polyamide.
1-Black oxide treated steel or stainless steel (AISI 303) revolving, folding threaded cross-head stud.
2- DIN 934 threaded nut with black-oxyde treated steel or stainless steel (AISI 304).
3-Galvanised steel or stainless steel (AISI 302) spring.



Versión *05/07

Blackened Code	Stainless steel Code	H	D	d	E	R	c	h1	d1(6g)	Q
*47003505006	*47003505906	49,5	20	15	10	53	5	24,5	M6	9
*47003507008	*47003507908	69	23,5	20	13	73	6,5	28,5	M8	10
47003508010	47003508910	81	26	-	17	87	8	35	M10	15
47003509010	47003509910	90	26	-	17	96	8	35	M10	15



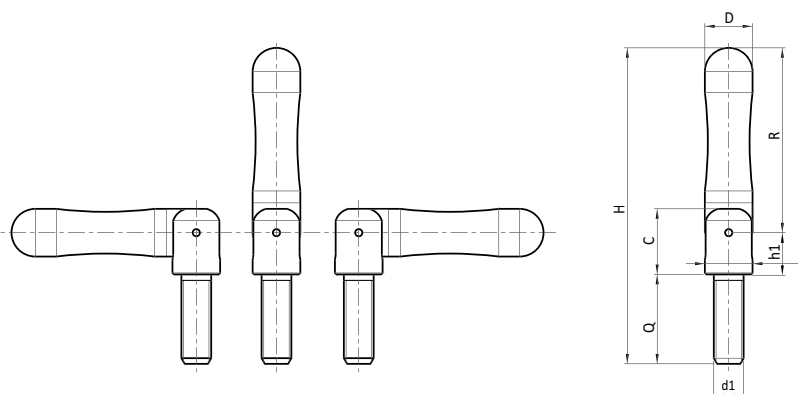
470095 FULL STAINLESS STEEL FOLDING HANDLE



INOX
Stainless Steel

Material Stainless steel AISI 303.
Sandblasted satin finish.
Threaded stud obtained by turning (thread tolerance 6g).

Code	D	R	H	C	h1	d	d1	Q
47009516551	16	62	106	22	14	16	M10	35



470047 FULL STEEL REVOLVING, FOLDING HANDLE



Model Ø 26

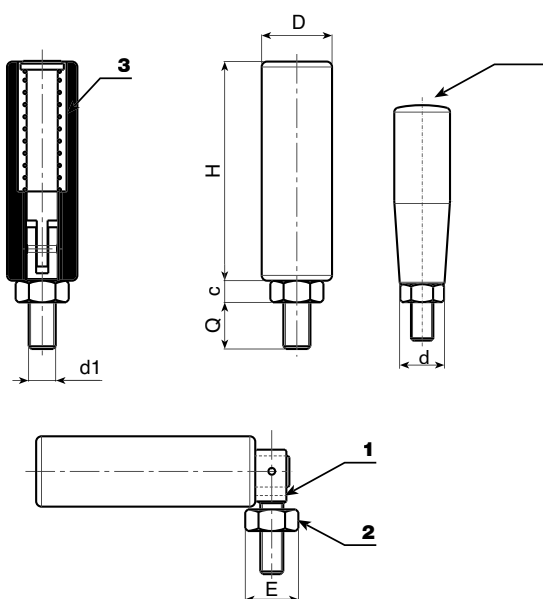


Model Ø 20-25

Material Free-cutting steel. Fine turned, standard blue galvanising.
 (1) Galvanised steel revolving, folding threaded cross-head stud.
 (2) Galvanised steel threaded nut DIN 934.
 (3) Galvanised steel spring.

Available in stainless steel AISI 303.

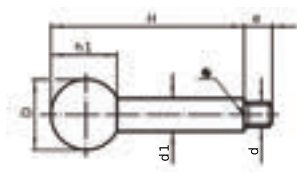
Code	H	D	d	E	c	d1	Q
47004705006	49	20	15	10	5	M6	9
47004707008	69	23	20	13	6,5	M8	10
47004708010	81	26	-	17	8	M10	15
47004709010	89	26	-	17	8	M10	15



380002T GEAR LEVER HANDLE WITH THREADED STUD



Fe steel, blackened.
 Black duroplast PF 31 ball knob DIN 319.
 Threaded stud.

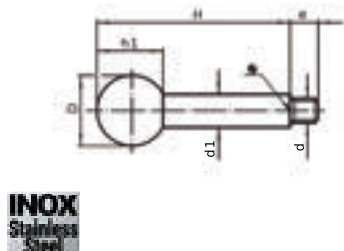


Code	d1	H	d	e	D	h1	Finished
38000200022	8	80	M6	9	20	18	Blackened
38000200032	10	100	M8	11	25	22,5	Blackened
38000200042	12	125	M10	14	32	29	Blackened
38000200052	14	160	M12	16	35	32,5	Blackened
38000200062	16	200	M14	18	40	37	Blackened

380002T SS GEAR LEVER HANDLE WITH STAINLESS STEEL THREADED STUD



Stainless steel 1.4305.
 Black duroplast PF 31 ball knob DIN 319.
 Threaded stud.

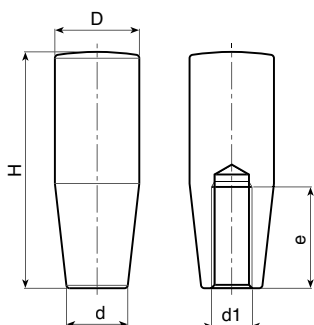


Code	d1	H	d	e	D	h1	Finished
38000200522	8	80	M6	9	20	18	Polished mate
38000200532	10	100	M8	11	25	22,5	Polished mate
38000200542	12	125	M10	14	32	29	Polished mate
38000200552	14	160	M12	16	35	32,5	Polished mate

470042 HANDLE WITH THREADED HOLE



PA Black reinforced polyamide.
Moulded female threaded hole.
Available in version with
antibacterial material.

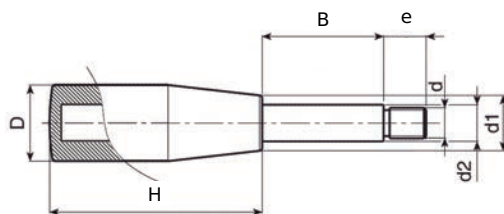


Code	H	D	d	d1	e	Color
47004214101	27	14	11,5	M4	15	Black
47004218101	40	18,5	15,5	M5	25	Black
47004220101	50,5	20	15	M6	25	Black
47004223101	60,5	23,5	18	M8	28	Black
47004225102	70	25	19	M10	30	Black
47004226101	79	26	21,5	M8	30	Black
47004226103	79	26	21,5	M12	30	Black
47004227102	89,5	28	23,5	M10	50	Black
47004227103	89,5	28	23,5	M12	50	Black
47004232102	109	32,5	27	M12	50	Black

470043T HANDLE WITH THREADED LEVER ARM



PA Black reinforced polyamide.
Threaded zinc plated steel stud.

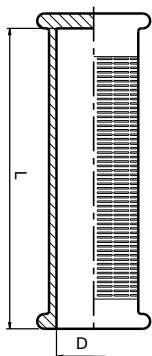


Code	D	H	d	e	d1	d2	B	Color
47004320502	20	50,5	M8	10	15	10	45	Black
47004323502	23,5	60	M10	15	18	12	50	Black
47004325501	25,5	70	M12	15	18,5	14	50	Black
47004326502	26	80	M12	15	22	14	90	Black
47004327503	28	90	M14	17	23,5	16	100	Black

410042 HAND GRIP 4142 P



Rubber SBR 50 Shore.

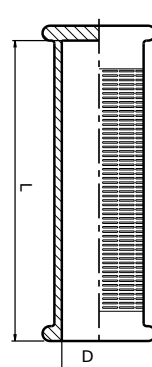


Code	D	L	Color
41004225103	25	103	Black
41004227103	27	103	Black
41004230103	30	103	Black

410043 HAND GRIP 4143 P



Rubber SBR 60 Shore.

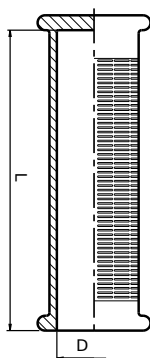


Code	D	L	Color
41004330125	30	125	Black

410044 HAND GRIP 4144 P



PVC 75 Shore.

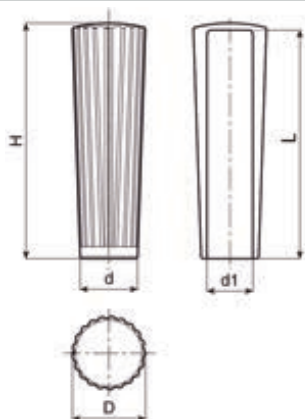


Code	D	L	Color
41004422105	22	105	Black
41004424105	24	105	Black

470017 HAND GRIP 4717 P



Material blend of polypropylene and thermoplastic rubber TPV.

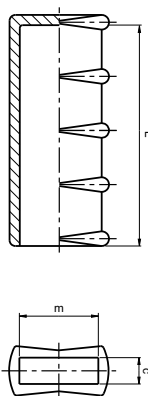


Code	D	d1	d	H	L	Color
47001710101	32	20	25	104,5	100	Black

470018 HAND GRIP 4718 P



Material blend of polypropylene and thermoplastic rubber TPV.

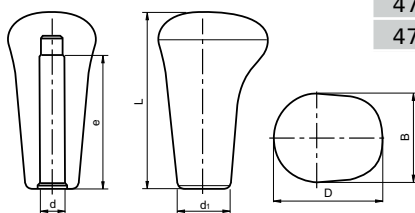


Code	L	c±0,2	m±0,2	Color
47001807305	79,5	5	20	Black
47001807306	79,5	6	20	Black
47001807308	79,5	8	20	Black
47001807310	79,5	10	20	Black
47001810310	101	10	28	Black
47001810312	101	10	30	Black

470009 HAND GRIP PM

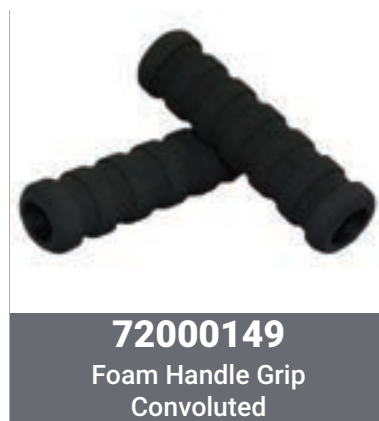
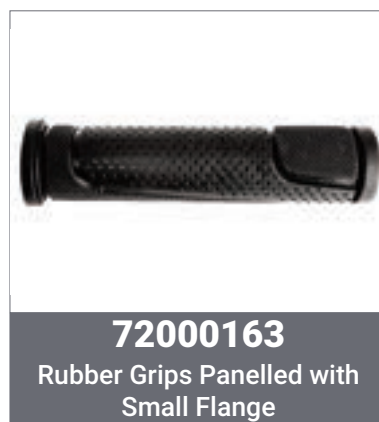
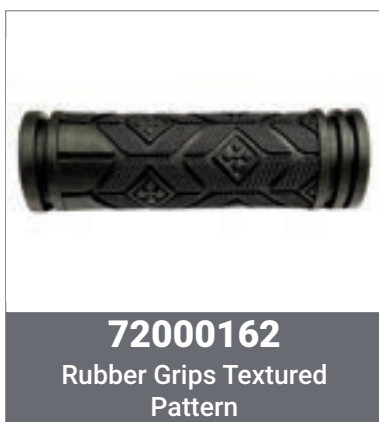
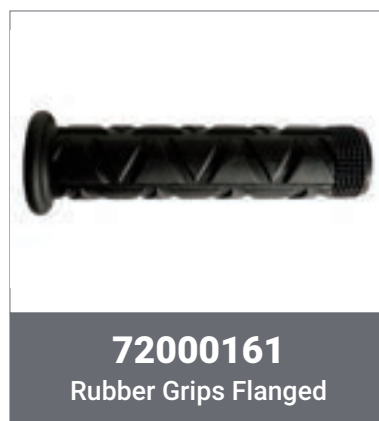


PA reinforced polyamide.
On request it can be supplied in orange.



Code	D	B	d	d1	e	L	Color
47000908012	50	40	12	25,5	55	80	Black
47000908014	50	40	14	25,5	70	80	Black
47000908016	50	40	16	25,5	70	80	Black

NEW RANGE OF GRIPS

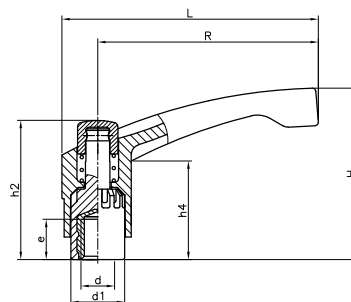


For more information visit our web page
www.tecnodin.es

110098K ADJUSTABLE HANDLE WITH THREADED INSERT



	RAL 7021	Black
	RAL 2004	Orange
	RAL 3001	Red
	RAL 5005	Blue
	RAL 1021	Yellow
	RAL 6037	Green



Threaded female brass insert.

PA: Reinforced polyamide.

Spring in stainless steel.

Available in black, orange, red*, blue*, yellow* & green*.

*Ask for MOQ.

Ask for other colors.

Black Body				Orange Body									
Cap Black	Cap Orange	Cap Red	Cap Yellow	Cap Black	Cap Orange	R	L	H	d	e	h4	d1	h2
11009841301	11009842301	11009845301	11009851301	11009843301	11009847301	43	51	38	M4	8	23	13	33
11009841302	11009842302	11009845302	11009851302	11009843302	11009847302	43	51	38	M5	9	23	13	33
11009841303	11009842303	11009845303	11009851303	11009843303	11009847303	43	51	38	M6	10	23	13	33
11009861301	11009862301	11009865301	11009871301	11009863301	11009867301	65	75	48	M6	10	26	16	42
11009861302	11009862302	11009865302	11009871302	11009863302	11009867302	65	75	48	M8	14	26	16	42
11009861303	11009862303	11009865303	11009871303	11009863303	11009867303	65	75	48	M10	13	26	16	42
11009881301	11009882301	11009885301	11009891301	11009883301	11009887301	85	98	63	M8	14	34	20	51
11009881302	11009882302	11009885302	11009891302	11009883302	11009887302	85	98	63	M10	17	34	20	51
11009881303	11009882303	11009885303	11009891303	11009883303	11009887303	85	98	63	M12	19	34	20	51

Red Body		Blue Body		R	L	H	d	e	h4	d1	h2
Cap Black	Cap Red	Cap Black	Cap Blue								
11009846301	11009840301	11009849301	11009848301	43	51	38	M4	8	23	13	33
11009846302	11009840302	11009849302	11009848302	43	51	38	M5	9	23	13	33
11009846303	11009840303	11009849303	11009848303	43	51	38	M6	10	23	13	33
11009866301	11009860301	11009869301	11009868301	65	75	48	M6	10	26	16	42
11009866302	11009860302	11009869302	11009868302	65	75	48	M8	14	26	16	42
11009866303	11009860303	11009869303	11009868303	65	75	48	M10	13	26	16	42
11009886301	11009880301	11009889301	11009888301	85	98	63	M8	14	34	20	51
11009886302	11009880302	11009889302	11009888302	85	98	63	M10	17	34	20	51
11009886303	11009880303	11009889303	11009888303	85	98	63	M12	19	34	20	51

110098K ADJUSTABLE HANDLE WITH THREADED STAINLESS STEEL INSERT



INOX
Stainless
Steel

 RAL 7021 Black

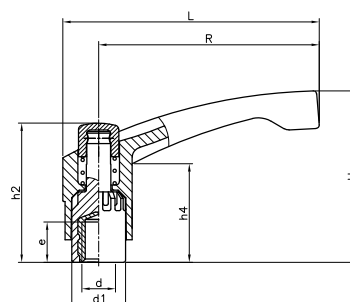
Threaded female stainless-steel AISI-303 insert.

PA: Reinforced polyamide.

Spring in stainless steel.

Other colors and sizes, ask.

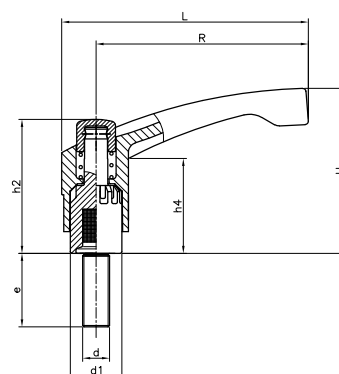
Code	R	L	H	d	e	h4	d1	h2
11009841305	43	51	38	M6	10	23	13	33
11009861305	65	75	48	M6	10	26	16	42
11009861306	65	75	48	M8	14	26	16	42
11009881305	85	98	63	M10	17	34	20	51



110098T ADJUSTABLE HANDLE WITH THREADED STUD



	RAL 7021	Black
	RAL 2004	Orange
	RAL 3001	Red
	RAL 5005	Blue
	RAL 1021	Yellow
	RAL 6037	Green



Treated threaded steel stud.

PA: Reinforced polyamide.

Spring in stainless steel.

Available in black, orange, red*, blue*, yellow* & green*.

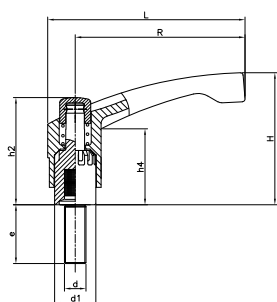
*Ask for MOQ. Ask for other colors.

Black Body				Orange Body		R	L	H	d	e	h4	d1	h2
Cap Black	Cap Orange	Cap Red	Cap Yellow	Cap Black	Cap Orange								
11009841503	11009842503	11009845503	11009851503	11009843503	11009847503	43	51	38	M5	10	23	13	33
11009841504	11009842504	11009845504	11009851504	11009843504	11009847504	43	51	38	M5	20	23	13	33
11009841505	11009842505	11009845505	11009851505	11009843505	11009847505	43	51	38	M6	15	23	13	33
11009841506	11009842506	11009845506	11009851506	11009843506	11009847506	43	51	38	M6	25	23	13	33
11009841507	11009842507	11009845507	11009851507	11009843507	11009847507	43	51	38	M6	40	23	13	33
11009861501	11009862501	11009865501	11009871501	11009863501	11009867501	65	75	48	M6	15	26	16	42
11009861502	11009862502	11009865502	11009871502	11009863502	11009867502	65	75	48	M6	20	26	16	42
11009861503	11009862503	11009865503	11009871503	11009863503	11009867503	65	75	48	M6	30	26	16	42
11009861504	11009862504	11009865504	11009871504	11009863504	11009867504	65	75	48	M6	40	26	16	42
11009861523	11009862523	11009865523	11009871523	11009863523	11009867523	65	75	48	M8	15	26	16	42
11009861506	11009862506	11009865506	11009871506	11009863506	11009867506	65	75	48	M8	20	26	16	42
11009861507	11009862507	11009865507	11009871507	11009863507	11009867507	65	75	48	M8	33	26	16	42
11009861508	11009862508	11009865508	11009871508	11009863508	11009867508	65	75	48	M8	47	26	16	42
11009861511	11009862511	11009865511	11009871511	11009863511	11009867511	65	75	48	M10	20	26	16	42
11009861512	11009862512	11009865512	11009871512	11009863512	11009867512	65	75	48	M10	30	26	16	42
11009861513	11009862513	11009865513	11009871513	11009863513	11009867513	65	75	48	M10	40	26	16	42
11009881501	11009882501	11009885501	11009891501	11009883501	11009887501	85	98	63	M8	20	34	20	51
11009881502	11009882502	11009885502	11009891502	11009883502	11009887502	85	98	63	M8	33	34	20	51
11009881503	11009882503	11009885503	11009891503	11009883503	11009887503	85	98	63	M8	47	34	20	51
11009881504	11009882504	11009885504	11009891504	11009883504	11009887504	85	98	63	M10	20	34	20	51
11009881505	11009882505	11009885505	11009891505	11009883505	11009887505	85	98	63	M10	30	34	20	51
11009881506	11009882506	11009885506	11009891506	11009883506	11009887506	85	98	63	M10	40	34	20	51
11009881507	11009882507	11009885507	11009891507	11009883507	11009887507	85	98	63	M12	30	34	20	51
11009881508	11009882508	11009885508	11009891508	11009883508	11009887508	85	98	63	M12	40	34	20	51
11009881509	11009882509	11009885509	11009891509	11009883509	11009887509	85	98	63	M12	60	34	20	51

Red Body		Blue Body		R	L	H	d	e	h4	d1	h2
Cap Black	Cap Red	Cap Black	Cap Blue								
11009846503	11009840503	11009849503	11009848503	43	51	38	M5	10	23	13	33
11009846504	11009840504	11009849504	11009848504	43	51	38	M5	20	23	13	33
11009846505	11009840505	11009849505	11009848505	43	51	38	M6	15	23	13	33
11009846506	11009840506	11009849506	11009848506	43	51	38	M6	25	23	13	33
11009846507	11009840507	11009849507	11009848507	43	51	38	M6	40	23	13	33
11009866501	11009860501	11009869501	11009868501	65	75	48	M6	15	26	16	42
11009866502	11009860502	11009869502	11009868502	65	75	48	M6	20	26	16	42
11009866503	11009860503	11009869503	11009868503	65	75	48	M6	30	26	16	42
11009866504	11009860504	11009869504	11009868504	65	75	48	M6	40	26	16	42
11009866523	11009860523	11009869523	11009868523	65	75	48	M8	15	26	16	42
11009866506	11009860506	11009869506	11009868506	65	75	48	M8	20	26	16	42
11009866507	11009860507	11009869507	11009868507	65	75	48	M8	33	26	16	42
11009866508	11009860508	11009869508	11009868508	65	75	48	M8	47	26	16	42
11009866511	11009860511	11009869511	11009868511	65	75	48	M10	20	26	16	42
11009866512	11009860512	11009869512	11009868512	65	75	48	M10	30	26	16	42
11009866513	11009860513	11009869513	11009868513	65	75	48	M10	40	26	16	42

Red Body		Blue Body		R	L	H	d	e	h4	d1	h2
Cap Black	Cap Red	Cap Black	Cap Blue								
11009886501	11009880501	11009889501	11009888501	85	98	63	M8	20	34	20	51
11009886502	11009880502	11009889502	11009888502	85	98	63	M8	33	34	20	51
11009886503	11009880503	11009889503	11009888503	85	98	63	M8	47	34	20	51
11009886504	11009880504	11009889504	11009888504	85	98	63	M10	20	34	20	51
11009886505	11009880505	11009889505	11009888505	85	98	63	M10	30	34	20	51
11009886506	11009880506	11009889506	11009888506	85	98	63	M10	40	34	20	51
11009886507	11009880507	11009889507	11009888507	85	98	63	M12	30	34	20	51
11009886508	11009880508	11009889508	11009888508	85	98	63	M12	40	34	20	51
11009886509	11009880509	11009889509	11009888509	85	98	63	M12	60	34	20	51

110098T ADJUSTABLE HANDLE WITH THREADED STAINLESS STEEL STUD



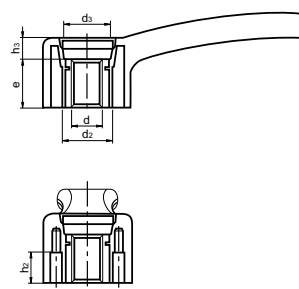
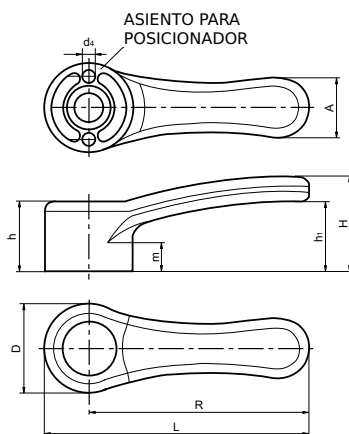
Code	R	L	H	d	e	h4	d1	h2
11009841508	43	51	38	M6	16	23	13	33
11009861515	65	75	48	M6	16	26	16	42
11009861516	65	75	48	M8	20	26	16	42
11009861517	65	75	48	M8	40	26	16	42
11009881515	85	98	63	M10	20	34	20	51
11009881516	85	98	63	M10	30	34	20	51
11009881517	85	98	63	M12	30	34	20	51
11009881518	85	98	63	M12	50	34	20	51

Threaded stainless steel AISI-303 stud.
PA: Reinforced polyamide.
Spring in stainless steel.
Available in other colors and sizes, ask.

RAL 7021 Black



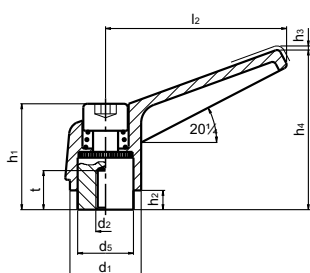
470049 FIXED LEVER WITH THREADED INSERT



Lever and cap made of reinforced polyamide.
Zinc plated steel threaded bush.
Lever body is colour black and cap is grey (RAL 7035).

Code	R	D	H	d	L	e	h	h1	h2	h3	m	A	d2	d3	d4	Color	Cap
47004906301	68	33	37	M6	84,5	16	25	27	11,5	9	12	20	20	16	4	Black	Grey
47004906302	68	33	37	M8	84,5	16	25	27	11,5	9	12	20	20	16	4	Black	Grey
47004908302	86	36	40	M8	104	16	28	29	14	12	13	24	22	18	5	Black	Grey
47004908301	86	36	40	M10	104	16	28	29	14	12	13	24	22	18	5	Black	Grey
47004911301	112	45	47	M12	134,5	24	36	35	14,5	12	16	30	26	23,5	6	Black	Grey
47004914301	142	55	52	M16	169,5	27	40	36	18	13	17,5	37	32	28	8	Black	Grey

370097K ADJUSTABLE CLAMPING LEVERS WITH FEMALE THREAD



Code	d1	l2	d2	t	d5	h1	h2	h3	h4
37009700114	14	45	M5	8	10	24,5	4	3	35
37009700124	14	45	M6	8	10	24,5	4	3	35
37009700324	18	62	M8	10	13,5	31	6,5	3	45
37009700424	22	74	M10	14	16	36	8	3,5	52
37009700524	25	89	M12	17	19	43	11	4	63
37009700624	30	108	M16	22	23	50,5	12	5	76

Za: Handle in light alloy, lacquered in black and interior parts in quality 5.8 steel, blued and threaded part in quality 5 steel, blued.
Ask us about other available threads and colors (orange RAL 2004, gray RAL 9006).

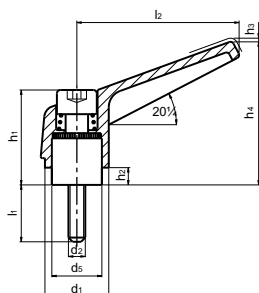
If you need to double the closing force: Adjustable handles with axial bearing.

Advantages:

- Double closing force.
- Protection of the clamped piece.
- Smaller threads with equal strength.

Consult.

370097T ADJUSTABLE CLAMPING LEVERS WITH STUD



Code	d1	l2	d2	d5	h1	h2	h3	h4	l1
37009700074	14	45	M5	10	24,5	4	3	35	25,0
37009700164	14	45	M6	10	24,5	4	3	35	25,0
37009700184	14	45	M6	10	24,5	4	3	35	40,0
37009700334	18	62	M8	13,5	31	6,5	3	45	16,0
37009700364	18	62	M8	13,5	31	6,5	3	45	32,0
37009700384	18	62	M8	13,5	31	6,5	3	45	50,0
37009700454	22	74	M10	16	36	8	3,5	52	25
37009700474	22	74	M10	16	36	8	3,5	52	40
37009700489	22	74	M10	16	36	8	3,5	52	63
37009700554	25	89	M12	19	43	11	4	63	32
37009700574	25	89	M12	19	43	11	4	63	50
37009700594	25	89	M12	19	43	11	4	63	80
37009700664	30	108	M16	23	50,5	12	5	76	50
37009700674	30	108	M16	23	50,5	12	5	76	63
37009700684	30	108	M16	23	50,5	12	5	76	80

Za: Handle in light alloy, lacquered in black and 5.8 quality steel stud, blued.
Ask us about other available threads and colors (orange RAL 2004, gray RAL 9006).

If you need to double the closing force: Adjustable handles with axial bearing.

Advantages:

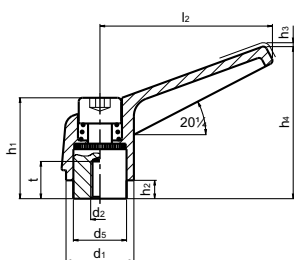
- Double closing force.
- Protection of the clamped piece.
- Smaller threads with equal strength.

Consult.

380033K ADJUSTABLE CLAMPING LEVER WITH FEMALE STAINLESS STEEL THREAD



INOX
Stainless Steel



Code	d1	l2	d2	t	d5	h1	h2	h3	h4
38003300114	14	45	M5	8	10	24,5	4	3	35
38003300124	14	45	M6	8	10	24,5	4	3	35
38003300324	18	62	M8	10	13,5	31	6,5	3	45
38003300424	22	74	M10	14	16	36	8	3,5	52
38003300524	25	89	M12	17	19	43	11	4	63
38003300624	30	108	M16	22	23	50,5	12	5	76

Za: Handle in light alloy, lacquered in black and interior parts in 1.4305 stainless steel.
Ask us about other threads and colors available (orange RAL 2004).

If you need to double the closing force: Adjustable handles with axial bearing.

Advantages:

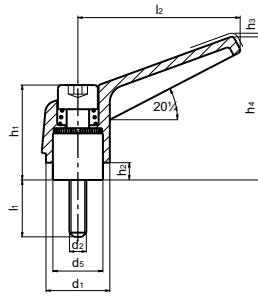
- Double closing force.
- Protection of the clamped piece.
- Smaller threads with equal strength.

Consult.

380033T ADJUSTABLE CLAMPING LEVER WITH STAINLESS STEEL STUD



INOX
Stainless Steel



Za: Light alloy handle, lacquered in black and stainless steel 1.4305 stud.

Ask us about other threads and colors available (orange RAL 2004).

If you need to double the closing force:

Adjustable handles with axial bearing.

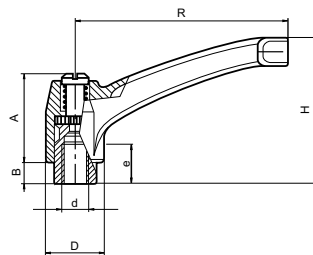
Advantages:

- Double closing force.
- Protection of the clamped piece.
- Smaller threads with equal strength.

Consult.

Code	d1	l2	d2	d5	h1	h2	h3	h4	l1
38003300074	14	45	M5	10	24,5	4	3	35	25,0
38003300164	14	45	M6	10	24,5	4	3	35	25,0
38003300184	14	45	M6	10	24,5	4	3	35	40,0
38003300334	18	62	M8	13,5	31	6,5	3	45	16,0
38003300364	18	62	M8	13,5	31	6,5	3	45	32,0
38003300384	18	62	M8	13,5	31	6,5	3	45	50,0
38003300454	22	74	M10	16	36	8	3,5	52	25
38003300474	22	74	M10	16	36	8	3,5	52	40
38003300489	22	74	M10	16	36	8	3,5	52	63
38003300554	25	89	M12	19	43	11	4	63	32
38003300574	25	89	M12	19	43	11	4	63	50
38003300594	25	89	M12	19	43	11	4	63	80
38003300664	30	108	M16	23	50,5	12	5	76	50
38003300674	30	108	M16	23	50,5	12	5	76	63
38003300684	30	108	M16	23	50,5	12	5	76	80

470050C INDEXED CLAMPING LEVER WITH FEMALE THREAD



Za Zinc die-cast.

Inner parts in black steel(UNI 5105).

Inner thread.

Spring in stainless steel.

Epoxy powder coating, glossy black RAL 9011.

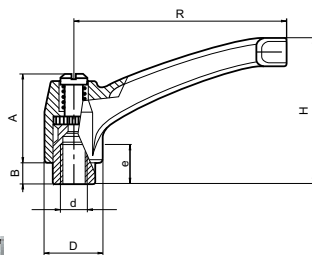
Available with other thread and colors (orange RAL 2004, grey RAL 7031).

Code	R	H	A	B	D	d	e	Color
47005004301	43	30	25	5	14	M4	7	Black
47005004302	43	30	25	5	14	M5	9	Black
47005004303	43	30	25	5	14	M6	9	Black
47005006302	65	45	27	7	19	M6	10	Black
47005006301	65	45	27	7	19	M8	10	Black
47005008303	80	57	34	8	22	M8	14	Black
47005008302	80	57	34	8	22	M10	13	Black
47005008301	80	56	34	8	22	M12	12	Black
47005009301	94	65	39,5	10,5	26	M10	20	Black
47005009303	94	65	39,5	10,5	26	M12	20	Black
47005009302	94	65	39,5	10,5	26	M16	20	Black
47005010301	108	75	44	12	30	M16	26	Black

470050C INDEXED CLAMPING LEVER WITH FEMALE STAINLESS STEEL THREAD



INOX
Stainless Steel



Za Zinc die-cast.

Inner parts in stainless steel AISI 303.

Inner thread.

Fixing screw in stainless steel AISI 304.

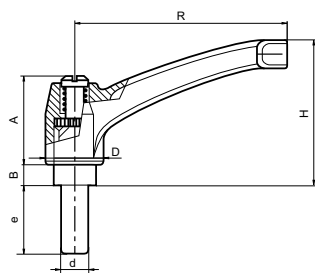
Spring in stainless steel AISI 302.

Epoxy powder coating, glossy black RAL 9011.

Available with other thread and colors (orange RAL 2004, grey RAL 7031).

Code	R	H	A	B	D	d	e	Color
47005004312	43	30	25	5	14	M5	9	Black
47005004313	43	30	25	5	14	M6	9	Black
47005006312	65	45	27	7	19	M6	10	Black
47005006311	65	45	27	7	19	M8	10	Black
47005008313	80	57	34	8	22	M8	14	Black
47005008312	80	57	34	8	22	M10	13	Black
47005008311	80	57	34	8	22	M12	12	Black
47005009313	94	65	39,5	10,5	26	M12	20	Black

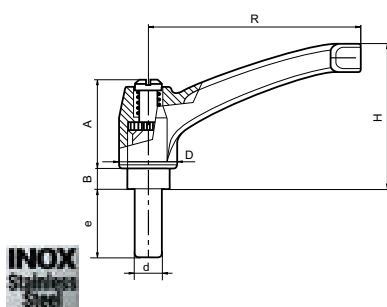
470050T INDEXED CLAMPING LEVER WITH THREADED STUD



Threaded stud.
Za Zinc die-cast.
Inner parts in black steel(UNI 5105).
Spring in stainless steel.
Epoxy powder coating, glossy black.
Available with other thread and colors (orange RAL 2004/grey RAL 7031).

Code	R	H	A	B	D	d	e	Color
47005004505	43	30	25	5	14	M5	16	Black
47005004508	43	30	25	5	14	M5	30	Black
47005004509	43	30	25	5	14	M6	16	Black
47005004511	43	30	25	5	14	M6	25	Black
47005004513	43	30	25	5	14	M6	40	Black
47005006512	65	45	27	7	19	M6	20	Black
47005006514	65	45	27	7	19	M6	30	Black
47005006502	65	45	27	7	19	M8	16	Black
47005006501	65	45	27	7	19	M8	30	Black
47005006508	65	45	27	7	19	M8	45	Black
47005008501	80	57	34	8	22	M8	20	Black
47005008505	80	57	34	8	22	M8	40	Black
47005008507	80	57	34	8	22	M10	20	Black
47005008511	80	57	34	8	22	M10	40	Black
47005009517	94	65	39,5	10,5	26	M12	20	Black
47005009503	94	65	39,5	10,5	26	M12	30	Black
47005009507	94	65	39,5	10,5	26	M12	50	Black
47005009515	94	65	39,5	10,5	26	M16	30	Black
47005009501	94	65	39,5	10,5	26	M16	50	Black
47005010501	108	75	44	12	30	M16	40	Black
47005010502	108	75	44	12	30	M16	60	Black

470050T INDEXED CLAMPING LEVER WITH THREADED STAINLESS STEEL STUD

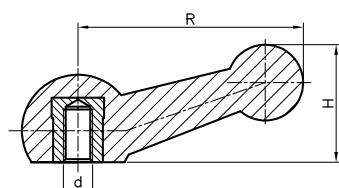


Stainless steel threaded stud.
Za Zinc die-cast.
Inner parts in stainless steel AISI 303.
Fixing screw in stainless steel AISI 304.
Spring in stainless steel AISI 302.
Epoxy powder coating, glossy black.
Available with other thread and colors (orange RAL 2004, grey RAL 7031).

Code	R	H	A	B	D	d	e	Color
47005004521	43	30	25	5	14	M5	16	Black
47005004523	43	30	25	5	14	M5	30	Black
47005004524	43	30	25	5	14	M6	16	Black
47005004526	43	30	25	5	14	M6	30	Black
47005006524	65	45	27	7	19	M8	16	Black
47005006526	65	45	27	7	19	M8	30	Black
47005008529	80	57	34	8	22	M10	20	Black
47005008533	80	57	34	8	22	M10	40	Black
47005008528	80	57	34	8	22	M12	20	Black
47005008530	80	57	34	8	22	M12	50	Black
47005009521	94	65	39,5	10,5	26	M12	30	Black
*47005010522	108	75	44	12	30	M16	20	Black
*47005010523	108	75	44	12	30	M16	50	Black

* Ask MOQ.

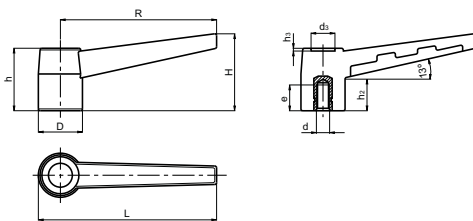
110030 BIBOLA FIXED LEVER



PA Reinforced polyamide.
Treated steel insert.

Code	R	H	d	Color
11003008302	77	44	M10	Black

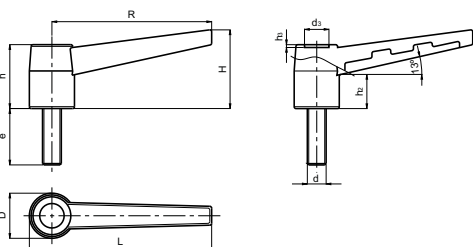
470051K FIXED LEVER WITH THREADED INSERT



Code	R	L	H	D	h	h2	h3	d3	d	e
47005104301	43	50	21.5	15	19	9	1	7	M6	10
47005106301	68	78	36	21	28.5	11	2	10	M8	15
47005108301	83	93	40	24	34	18	2	13	M10	14

PA Reinforced polyamide.
Brass insert with female threaded
hole (thread tolerance 6H).

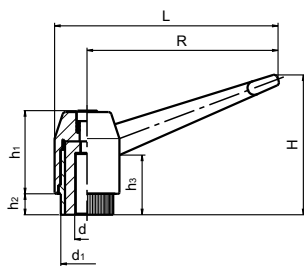
470051T FIXED LEVER WITH THREADED STUD



Code	R	L	H	D	h	h2	h3	d3	d	e
47005104501	43	50	21.5	15	19	9	1	7	M6	20
47005104502	43	50	21.5	15	19	9	1	7	M6	40
47005106501	68	78	36	21	28.5	11	2	10	M8	20
47005106502	68	78	36	21	28.5	11	2	10	M8	40
47005108501	83	93	40	24	34	18	2	13	M10	20
47005108502	83	93	40	24	34	18	2	13	M10	40

PA Reinforced polyamide.
Treated threaded steel stud.

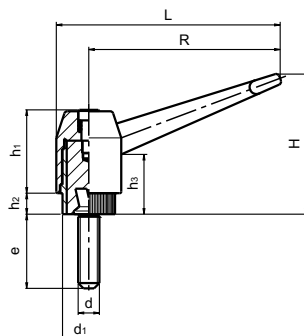
470052K ADJUSTABLE HANDLE WITH THREADED INSERT



Code	R	L	H	h1	d1	h2	h3	d
47005204301	43	52	33	20	11,5	6	14	M6
47005206301	65	77	45	26	15	8	17	M8
47005208301	83	97	57	32	19	10	23	M10
47005210301	104	121	70	39	24	11	26	M12
47005211301	104	121	70	39	24	11	26	M14
47005212301	104	121	70	39	24	11	26	M16

PA Reinforced polyamide.
Treated threaded insert.

470052T ADJUSTABLE HANDLE WITH THREADED STUD



Code	R	L	H	h1	d1	h2	h3	d	e
47005204501	43	52	33	20	11,5	6	14	M6	25
47005206501	65	77	45	26	15	8	17	M8	30
47005208501	83	97	57	32	19	10	23	M10	40
47005210501	104	121	70	39	24	11	26	M12	60
47005211501	104	121	70	39	24	11	26	M14	60
47005212501	104	121	70	39	24	11	26	M16	63

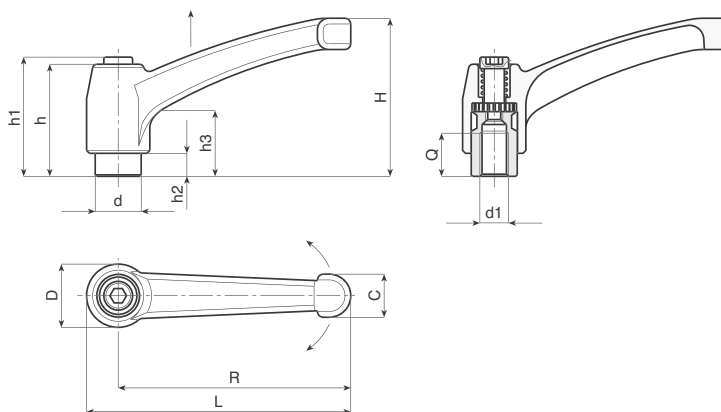
PA Reinforced polyamide.
Treated threaded steel stud.

470086 C
**FULL STAINLESS STEEL INDEXED CLAMPING LEVER
WITH THREADED INSERT**

INOX
Stainless Steel

Body in precision-cast stainless steel AISI 304.
Inner parts in stainless steel AISI 303.
Spring in stainless steel AISI 302.
Surface finish, natural brushed.

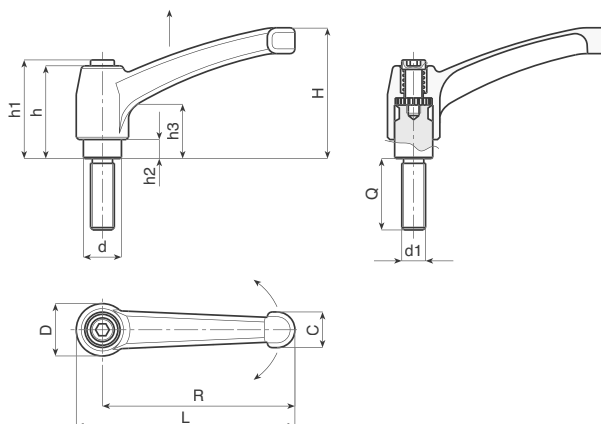
Code	L	R	H	D	d	c	h	h1	h2	h3	d1	Q
47008604302	50	43	30	14	10	9	26	30	5	14	M5	9
47008604303	50	43	30	14	10	9	26	30	5	14	M6	9
47008606301	75	65	45	19	14	13	32	34	7	14	M6	10
47008606302	75	65	45	19	14	13	32	34	7	14	M8	10
47008606303	75	65	45	19	14	13	32	34	7	14	M10	10
47008608301	91	80	57	22	16	16	40	42	8	16	M8	14
47008608302	91	80	57	22	16	16	40	42	8	16	M10	13
47008608303	91	80	57	22	16	16	40	42	8	16	M12	12
47008609301	107	94	65	26	20	18	47	50	10.5	19	M10	17
47008609302	107	94	65	26	20	18	47	50	10.5	19	M12	17
47008609303	107	94	65	26	20	18	47	50	10.5	19	M14	17


470086 T
**FULL STAINLESS STEEL INDEXED CLAMPING LEVER
WITH THREADED STUD**

INOX
Stainless Steel

Body in precision-cast stainless steel AISI 304.
Inner parts in stainless steel AISI 303.
Spring in stainless steel AISI 302.
Surface finish, natural brushed.
LM = maximum turning length.

Code	L	R	H	D	d	c	h	h1	h2	h3	LM	d1	Q
47008604501	50	43	30	14	10	9	26	30	5	14	50	M5	16
47008604503	50	43	30	14	10	9	26	30	5	14	50	M5	30
47008604506	50	43	30	14	10	9	26	30	5	14	50	M6	16
47008604508	50	43	30	14	10	9	26	30	5	14	50	M6	30
47008606501	75	65	45	19	14	13	32	34	7	14	60	M8	16
47008606503	75	65	45	19	14	13	32	34	7	14	60	M8	40
47008606505	75	65	45	19	14	13	32	34	7	14	60	M10	30
47008606506	75	65	45	19	14	13	32	34	7	14	60	M10	40
47008608501	91	80	57	22	16	16	40	42	8	16	60	M10	20
47008608503	91	80	57	22	16	16	40	42	8	16	60	M10	40
47008608504	91	80	57	22	16	16	40	42	8	16	60	M12	20
47008608506	91	80	57	22	16	16	40	42	8	16	60	M12	50
47008609501	107	94	65	26	20	17.5	47	50	10.5	19	60	M12	20
47008609503	107	94	65	26	20	17.5	47	50	10.5	19	60	M14	30
47008609505	107	94	65	26	20	17.5	47	50	10.5	19	70	M16	50



470088 K
**INDEXED CLAMPING LEVER WITH STAINLESS STEEL
THREADED INSERT**

INOX
Stainless
Steel

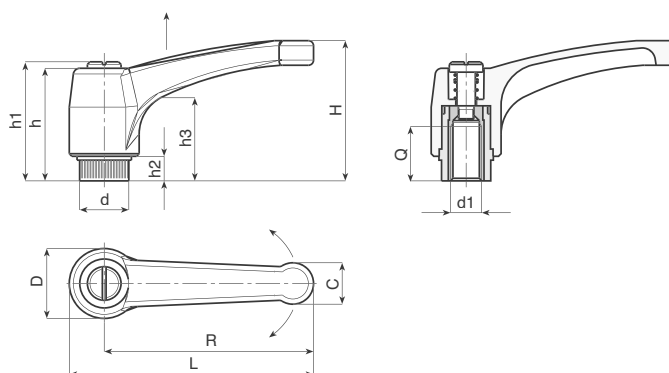
Code	L	R	H	D	d	c	h	h1	h2	h3	d1	Q
47008806302	76	65	43	23	15	13	36	40	8	24	M8	14
47008808302	93	80	54	27	19	15,5	44	48	8,5	29	M12	19
47008809302	109	94	56	30	19	18	45	49	9	30	M10	19
47008809303	109	94	56	30	19	18	45	49	9	30	M12	19

Special technopolymer reinforced with high-strength glass fiber. Black (RAL 9011). Resistant to oils and greases.

Stainless steel insert with female threaded hole (Aisi 303) (thread tolerance 6H).

Stainless steel screw (Aisi 303) with slotted head.

Spring in stainless steel (AISI 302).


470088 T
**INDEXED CLAMPING LEVER WITH STAINLESS STEEL
THREADED STUD**

INOX
Stainless
Steel

Code	L	R	H	D	d	c	h	h1	h2	h3	LM	d1	Q
47008806506	76	65	43	23	15	13	36	40	8	24	60	M8	30
47008808506	93	80	54	27	19	15,5	44	48	8,5	29	90	M8	40
47008809501	109	94	56	30	19	18	45	49	9	30	90	M10	20
47008809506	109	94	56	30	19	18	45	49	9	30	90	M12	40

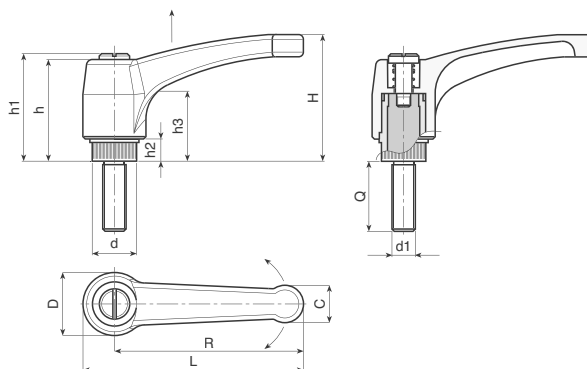
Special technopolymer reinforced with high-strength glass fiber.

Black (RAL 9011). Resistant to oils and greases.

Threaded stainless steel stud (AISI 303) (thread tolerance 6g).

Stainless steel screw (AISI 303) with slotted head.

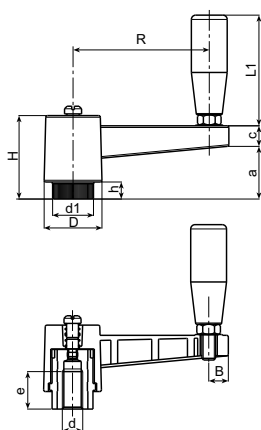
Spring in stainless steel (AISI 302).



470012 INDEXED CRANK HANDLE BTC WITH NOT FOLD AWAY REVOLVING HANDLE AND SMOOTH HOLE



PA Reinforced polyamide.
Treated steel insert with smooth hole.
Side insert for the handle in brass.

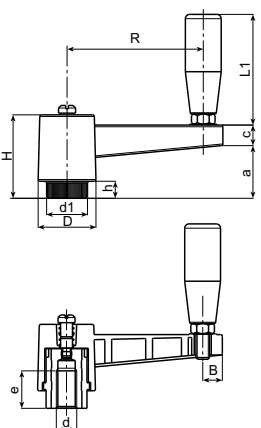


Code	R	H	h	d1	D	d	e	c	a	L1	B
47001206301	65	46	10	19	27	5	22	13	29	54	9
47001208301	80	50	11	24,5	34	5	28	13	33	66	12
47001211301	110	50	11	24,5	34	5	28	13	33	66	12

470012K INDEXED CRANK HANDLE BTC WITH NOT FOLD AWAY REVOLVING HANDLE AND THREADED INSERT



PA Reinforced polyamide.
Treated threaded steel insert.
Side insert for the handle in brass.

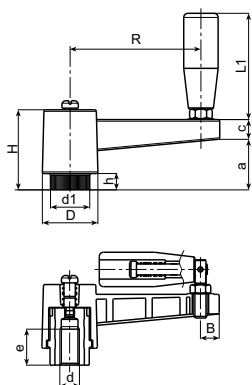


Code	R	H	h	d1	D	d	e	c	a	L1	B
47001206331	65	46	10	19	27	M8	18	13	30	54	9
47001206332	65	46	10	19	27	M10	18	13	30	54	9
47001206333	65	46	10	19	27	M12	18	13	30	54	9
47001208331	80	50	10,5	24,5	34	M12	22	13	33	66	12
47001208332	80	50	10,5	24,5	34	M14	22	13	33	66	12
47001208333	80	50	10,5	24,5	34	M16	22	13	33	66	12
47001211331	110	50	11	24,5	34	M12	22	13	33	66	12
47001211332	110	50	11	24,5	34	M14	22	13	33	66	12
47001211333	110	50	11	24,5	34	M16	22	13	33	66	12

470014 INDEXED CRANK HANDLE BTC WITH FOLD AWAY REVOLVING HANDLE AND SMOOTH HOLE



PA Reinforced polyamide.
Treated steel insert with smooth hole.
Side insert for the handle in brass.

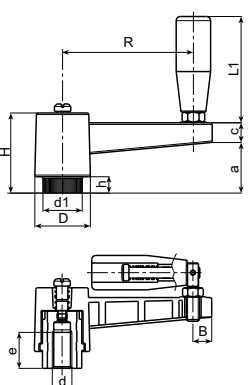


Code	R	H	h	d1	D	d	e	C	a	L1	B
47001406381	65	46	10	19	27	5	22	13	29	54	9
47001408381	80	50	11	24,5	34	5	28	13	33	76	12
47001411381	110	50	11	24,5	34	5	28	13	33	76	12

470014K INDEXED CRANK HANDLE BTC WITH FOLD AWAY REVOLVING HANDLE AND THREADED INSERT



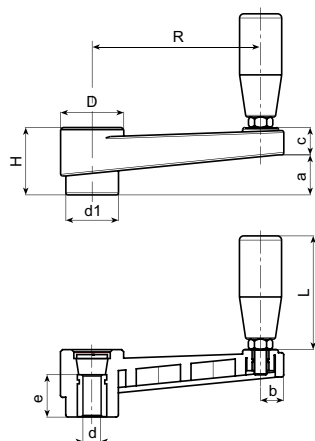
PA Reinforced polyamide.
Treated threaded steel insert.
Side insert for the handle in brass.



Code	R	H	h	d1	D	d	e	C	a	L1	B
47001406331	65	46	10	19	27	M8	18	13	30	54	9
47001406332	65	46	10	19	27	M10	18	13	30	54	9
47001406333	65	46	10	19	27	M12	18	13	30	54	9
47001408331	80	50	10,5	24,5	34	M12	22	13	33	76	12
47001408332	80	50	10,5	24,5	34	M14	22	13	33	76	12
47001408333	80	50	10,5	24,5	34	M16	22	13	33	76	12
47001411331	110	50	11	24,5	34	M12	22	13	33	76	12
47001411332	110	50	11	24,5	34	M14	22	13	33	76	12
47001411333	110	50	11	24,5	34	M16	22	13	33	76	12

470015
CRANK HANDLE BTC WITH NOT FOLD AWAY REVOLVING HANDLE AND SMOOTH INSERT

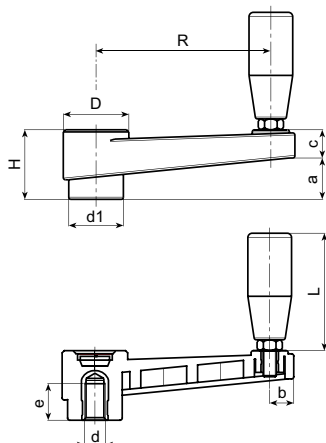

PA Reinforced polyamide.
Treated through hole steel
insert with smooth hole.
Side insert for the handle in
brass.
Grey cap (RAL 7035)



Code	R	H	d1	D	d	e	c	a	L	b
47001506301	65	30	22	27,5	5	20	13	17	56	9,5
47001508301	80	33,5	26	32	5	24	13	20,5	56	11
47001511301	110	39	29	35	8	28	14	25	66	12
47001514301	140	49	35,5	44	8	30	17	32	76	13
47001518301	185	55	40	47,5	8	34	16,5	38,5	86	14

470015K
CRANK HANDLE BTC WITH NOT FOLD AWAY REVOLVING HANDLE AND THREADED INSERT

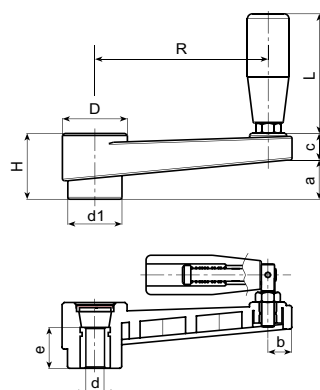

PA Reinforced polyamide.
Threaded female brass insert.
*Treated threaded steel
insert.
Side insert for the handle in
brass.
Grey cap (RAL 7035)



Code	R	H	d1	D	d	e	c	a	L	b
47001506331	65	30	22	27,5	M8	13	13	17	56	9,5
47001506332	65	30	22	27,5	M10	13	13	17	56	9,5
47001506333	65	30	22	27,5	M12	13	13	17	56	9,5
47001508331	80	33,5	26	32	M8	13	13	20,5	56	11
47001508332	80	33,5	26	32	M10	13	13	20,5	56	11
47001508333	80	33,5	26	32	M12	13	13	20,5	56	11
47001511331	110	39	29	35	M10	13	14	25	65	12
47001511332	110	39	29	35	M12	17	14	25	65	12
47001511333	110	39	29	35	M14	17	14	25	65	12
47001514331	140	49	35	44	M12	17	17	32	76	13,5
47001514332	140	49	35	44	M14	17	17	32	76	13,5
*47001514333	140	49	35	44	M16	17	17	32	76	13,5
47001518331	185	55	40	47,5	M12	17	16,5	38,5	86	14
47001518332	185	55	40	47,5	M14	17	16,5	38,5	86	14
*47001518333	185	55	40	47,5	M16	17	16,5	38,5	86	14

470016
CRANK HANDLE BTC WITH FOLD AWAY REVOLVING HANDLE AND SMOOTH INSERT

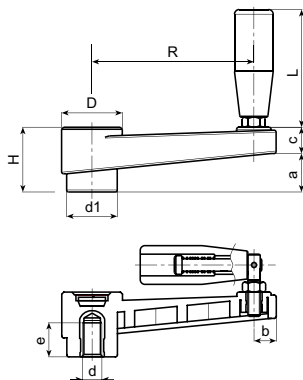

PA Reinforced polyamide.
Treated through hole steel
insert with smooth hole.
Side insert for the handle in
brass.
Grey cap (RAL 7035)



Code	R	H	d1	D	d	e	c	a	L	b
47001606381	65	30	22	27,5	5	20	13	17	54	9,5
47001608381	80	33,5	26	32	5	24	13	19	54	11
47001611381	110	39	29	35	8	28	14	25	75	12
47001614381	140	49	35,5	44	8	30	17	33	89	13
47001618381	185	55	40	47,5	8	34	16,5	40	97	14

470016K
CRANK HANDLE BTC WITH FOLD AWAY REVOLVING HANDLE WITH THREADED INSERT


PA Reinforced polyamide.
Threaded female brass insert.
*Treated threaded steel insert.
Grey cap (RAL 7035).

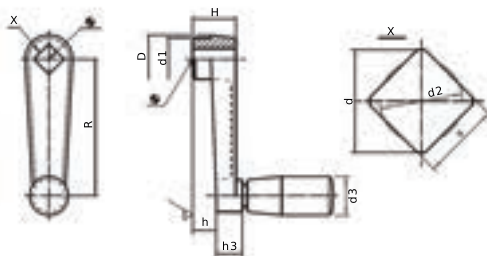


Code	R	H	d1	D	d	e	c	a	L	b
47001606331	65	30	22	27	M8	15	13	17	54	9,5
47001606332	65	30	22	27	M10	15	13	17	54	9,5
47001606333	65	30	22	27	M12	18	13	17	54	9,5
47001608331	80	33	26	30	M8	18	13	19	54	11
47001608332	80	33	26	30	M10	18	13	19	54	11
47001608333	80	33	26	30	M12	18	13	19	54	11
47001611331	110	39	29	33	M10	16	14	25	75	12
47001611332	110	39	29	33	M12	18	14	25	75	12
47001611333	110	39	29	33	M14	18	14	25	75	12
47001614331	140	49	35	41	M12	19	16	33	89	13,5
47001614332	140	49	35	41	M14	18	16	33	89	13,5
*47001614333	140	49	35	41	M16	18	16	33	89	13,5
47001618331	185	55	40	45	M12	17	16,5	40	97	14
47001618332	185	55	40	45	M14	19	16,5	40	97	14
*47001618333	185	55	40	45	M16	18	16,5	40	97	14

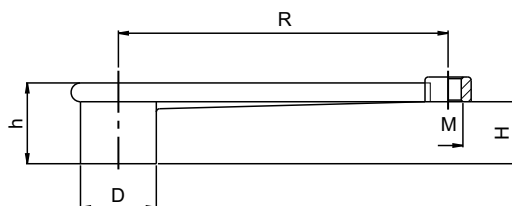
380005
CRANK HANDLE WITH SQUARE HOLE AND ROTATING HANDLE


Za Zinc die-cast, plastic coated, black.
*AL Aluminium, plastic coated, black.
Square hole.
Rotating cylindrical handle made of black phenolic PF 31.
Alternative to DIN 469 cranks.

Code	R	h	H	d1	d	s	d2	D	h3	d3	Material
38000500420	50	10	18	16	10,1	8	8,4	18	10	14	Za
38000500422	64	11	20	19	13,1	10	10,5	22	12	18	Za
38000500424	80	14	24	23	13,1	10	10,5	26	14	21	Za
38000500436	100	17	28	27	16,1	12	12,6	30	15	23	Za
38000500414	125	22	34	32	18,1	14	14,7	35	18	26	AL
38000500416	160	26	38	35	22,2	17	17,9	39	18	26	AL


330030
ALUMINIUM HANDLE DIN 469 F


Code	R	H	h	D	M	Finished
33003020101	200	25	45	45	M12	Natural



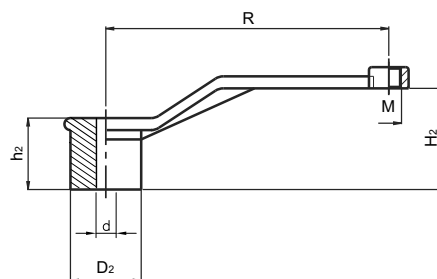
No drill. With pre-marked upper centering.
AL: Aluminum.
Threaded hole for handle.
Recommended handles: 330011, 330012 or 330013. See page 67.
Handles not included.

330032 ALUMINIUM HANDLE DIN 468 F

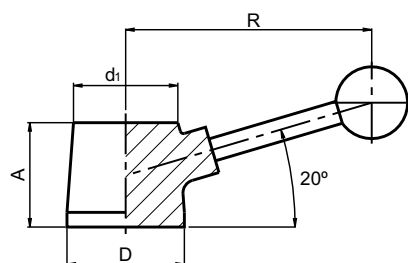


AL: Aluminum.
Natural finish.
Optional central smooth hole (d).
Threaded hole for handle.
Recommended handles: 330011, 330012 or 330013. See page 67. Handles not included.

Code without hole	Code with hole	R	H2	h2	D2	d	M
33003210101	33003210201	100	48	28	28	10	M8
33003212101	33003212201	125	60	35	35	12	M10
33003216101	-	160	70	40	40	16	M10
33003220101	33003220201	200	88	45	45	16	M12
33003225101	33003225201	250	95	48	48	17	M12



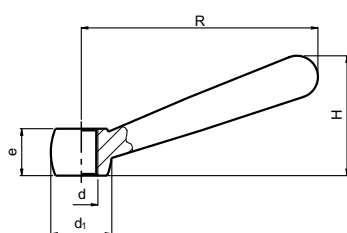
330038 CONNECTION LEVER SN-KG



Code	R	D	A	d1	Finished
33003830101	80	30	23	21	Natural
33003870101	175	70	45	56	Natural
33003880101	190	80	50	66	Natural

AL Aluminium.
Without central hole.
Chromated steel lever and black duroplast ball.

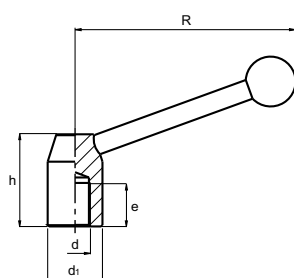
370040 DIN 99-N LEVER



Code	R	d	e	d1	H	Finished
37004000050	50	M6	9,5	12	24	Blackened
37004000063	63	M8	12,5	16	30,5	Blackened
37004000080	80	M10	15	20	38	Blackened
37004000100	100	M12	19	25	47	Blackened
37004000125	125	M16	25	32	59,5	Blackened
37004000160	160	M20	31	40	75,7	Blackened
37004000200	200	M24	41	50	97	Blackened

Fe Steel blackened.
Female threaded hole drilled out.
Available in stainless steel.

370043 FIXED CLAMPING LEVERS WITH BALL KNOB



Code	d1	R	h	d	e	Finished
37004320301	20	72	33	M8	15	Blackened
37004322301	22	85	37	M10	15	Blackened
37004328301	28	115	47	M12	18	Blackened
37004336301	36	145	58	M16	24	Blackened

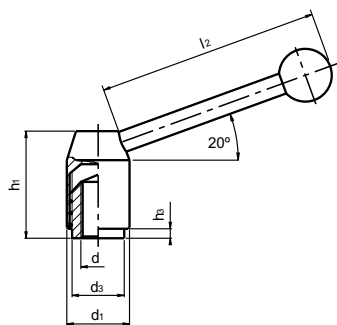
Fe Steel blackened.
Female thread.
Black duroplast ball knob.

370044

ADJUSTABLE CLAMPING LEVERS WITH BALL KNOB



Fe Steel blackened.
Female thread.
Black duroplast ball knob.



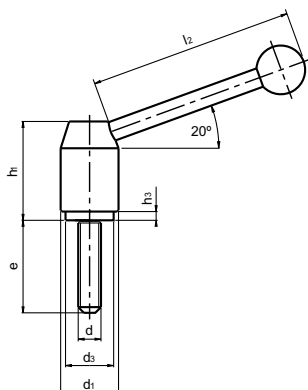
Code	d1	d3	h3	h1	l2	d	Finished
37004421301	21	13,5	1	33,5	70	M8	Blackened
37004424301	24	16	2,5	40	96	M10	Blackened
37004428301	28	19	4,5	48,5	110	M12	Blackened
37004433301	33	23	6	55	124	M16	Blackened
37004440301	40	30	6	68	138	M20	Blackened

370044T

ADJUSTABLE CLAMPING LEVERS WITH BALL KNOB

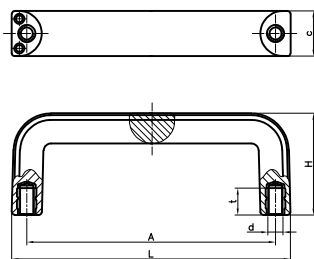


Fe Steel blackened.
Threaded stud.
Black duroplast ball knob.



Code	d1	d3	h3	h1	l2	d	e	Finished
37004421501	21	13,5	1	33,5	70	M8	32	Blackened
37004424501	24	16	2,5	40	96	M10	40	Blackened
37004428501	28	19	4,5	48,5	110	M12	50	Blackened
37004433501	33	23	6	55	124	M16	63	Blackened
37004440501	40	30	6	68	138	M20	80	Blackened

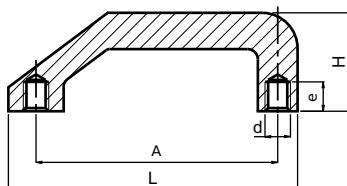
110053 SOLID BRIDGE HANDLE WITH THREADED INSERT



Code	L	A	d	H	c	t	Color
11005312301	124	109 ± 1	M6	45	21	10	Black

Threaded female brass insert.
PF: Black duroplast FS 31 DIN 7708.

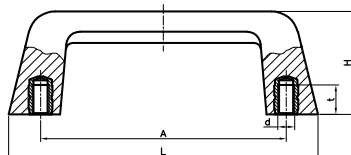
110058 BRIDGE HANDLE AFR WITH THREADED INSERT



Code	L	A	d	H	e	Color
11005817301	170	140 ± 1	M8	57	14	Black

Treated threaded steel insert.
PF: Black duroplast FS 31 DIN 7708.

110061 BRIDGE HANDLE ED WITH THREADED INSERT



Code	L	A	d	H	t	Color
11006113301	130	109 ± 1	M6	43	10	Black
11006116301	165	131 ± 1	M8	55	14	Black

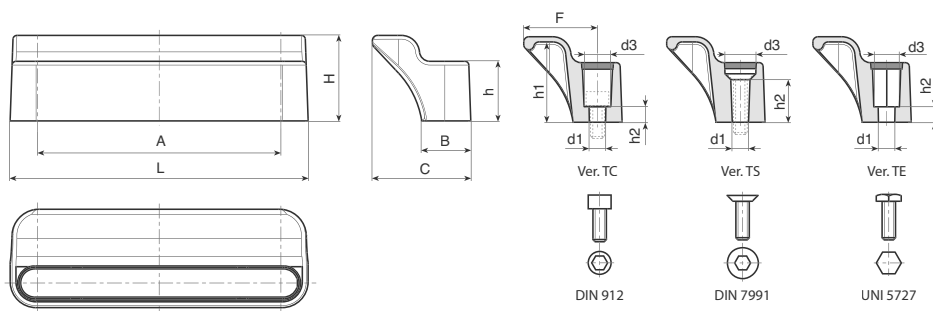
Threaded female brass insert.
PF: Black duroplast FS 31 DIN 7708.

470048 SAFETY HANDLE WITH THROUGH HOLES AND CENTRAL CAP



Code	L	A	H	F	h	h1	h2	C	B	d3	d1	Version
47004809201	115	94	33	28,5	23	31	6	38	19	10,3	6,5	TC
47004809211	115	94	33	28,5	23	31	16,3	38	19	11,9	6,5	TS
47004809221	115	94	33	28,5	23	31	6	38	19	10	6,5	TE

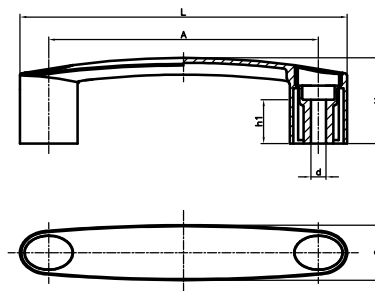
PA Black reinforced polyamide.
Smooth through hole obtained by moulding the plastic.
Rectangular cap in orange polyamide (RAL 2004), available in other colors.
Working temperature between +135°C a -30°C.
Screws not included.



110055 BRIDGE HANDLE CT WITH THROUGH HOLES



	RAL 7021	Black
	RAL 2004	Orange
	RAL 3001	Red
	RAL 5005	Blue
	RAL 1021	Yellow
	RAL 7038	Grey



Taladros pasantes.

Tapones en los siguientes colores: Black, orange, red, blue, yellow y grey, similares al RAL indicado.

PA: Black reinforced polyamide.

Available in other colors, ask.

Black handle

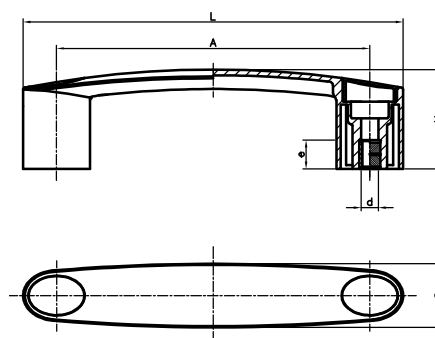
Black Cap	Orange Cap	Red Cap	Blue Cap	Yellow Cap	Grey Cap	L	A	d	H	C	h1
11005509210	11005509240	11005509250	11005509220	11005509230	11005509290	116	93 ± 1	6,5	34	20	20
11005510210	11005510240	11005510250	11005510220	11005510230	11005510290	146	109 ± 1	8,5	41	25	20
11005511210	11005511240	11005511250	11005511220	11005511230	11005511290	146	117 ± 1	8,5	41	25	20
11005513210	11005513240	11005513250	11005513220	11005513230	11005513290	163	132 ± 1	8,5	45	29	22
11005515210	11005515240	11005515250	11005515220	11005515230	11005515290	181	150 ± 1	8,5	48	31	25

Orange handle	Roja handle	Blue handle	Amarilla handle	Grey handle	L	A	d	H	C	h1
Orange Cap	Red Cap	Blue Cap	Yellow Cap	Grey Cap	L	A	d	H	C	h1
11005509040	11005509050	11005509010	11005509030	11005509090	116	93 ± 1	6,5	34	20	20
11005510040	11005510050	11005510010	11005510030	11005510090	146	109 ± 1	8,5	41	25	20
11005511040	11005511050	11005511010	11005511030	11005511090	146	117 ± 1	8,5	41	25	20
11005513040	11005513050	11005513010	11005513030	11005513090	163	132 ± 1	8,5	45	29	22
11005515040	11005515050	11005515010	11005515030	11005515090	181	150 ± 1	8,5	48	31	25

110055K BRIDGE HANDLE CT WITH THREADED INSERTS



	RAL 7021	Black
	RAL 2004	Orange
	RAL 3001	Red
	RAL 5005	Blue
	RAL 1021	Yellow
	RAL 7038	Grey



PA Black reinforced polyamide.

Threaded female brass insert.

Caps in the indicated colours.

PA: Black reinforced polyamide.

Available in other colors, ask.

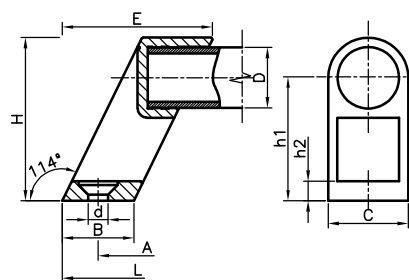
Black handle

Black Cap	Orange Cap	Red Cap	Blue Cap	Yellow Cap	Grey Cap	L	A	d	H	C	e
11005509410	11005509440	11005509450	11005509420	11005509430	11005509490	116	93±1	M6	34	20	11.5
11005510410	11005510440	11005510450	11005510420	11005510430	11005510490	146	109±1	M6	41	25	11.5
11005511410	11005511440	11005511450	11005511420	11005511430	11005511490	146	117±1	M6	41	25	11.5
11005513410	11005513440	11005513450	11005513420	11005513430	11005513490	163	132±1	M6	45	29	11.5



	RAL 7021 Black
	RAL 2004 Orange
	RAL 3001 Red
	RAL 5005 Blue
	RAL 1021 Yellow

PA Black reinforced polyamide.
Through holes.
Central tube in anodized aluminium.
Available in other colors, ask.



RED
Code 11005600510 for tube Ø 20mm (1u)
Code 11005600500 for tube Ø 25mm (1u)



BLUE
Code 11005600210 for tube Ø 20mm (1u)
Code 11005600200 for tube Ø 25mm (1u)



YELLOW
Code 11005600310 for tube Ø 20mm (1u)
Code 11005600300 for tube Ø 25mm (1u)



ORANGE
Code 11005600410 for tube Ø 20mm (1u)
Code 11005600400 for tube Ø 25mm (1u)

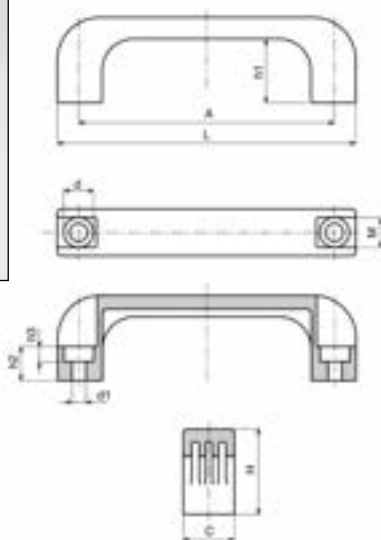


BLACK
Code 11005600010 for tube Ø 20mm (1u)
Code 11005600000 for tube Ø 25mm (1u)

Cod.Black	Cod.Orange	Cod.Red	Cod.Blue	Cod.Yellow	L	A	d	H	B	C	D	E	h1	h2
11005620201	11005620241	11005620251	11005620221	11005620231	223	200 ± 1	6,4	53	23	26	20	47	40	6
11005625201	11005625241	11005625251	11005625221	11005625231	273	250 ± 1	6,4	53	23	26	20	47	40	6
11005630201	11005630241	11005630251	11005630221	11005630231	323	300 ± 1	6,4	53	23	26	20	47	40	6
11005635201	11005635241	11005635251	11005635221	11005635231	373	350 ± 1	6,4	53	23	26	20	47	40	6
11005640201	11005640241	11005640251	11005640221	11005640231	423	400 ± 1	6,4	53	23	26	20	47	40	6
11005650201	11005650241	11005650251	11005650221	11005650231	523	500 ± 1	6,4	53	23	26	20	47	40	6
11005660201	11005660241	11005660251	11005660221	11005660231	617	600 ± 1	6,4	53	23	26	20	47	40	6
11005670201	11005670241	11005670251	11005670221	11005670231	723	700 ± 1	6,4	53	23	26	20	47	40	6
11005620101	11005620141	11005620151	11005620121	11005620131	229	200 ± 1	8,4	60	29	32	25	56	43	8
11005625101	11005625141	11005625151	11005625121	11005625131	279	250 ± 1	8,4	60	29	32	25	56	43	8
11005630101	11005630141	11005630151	11005630121	11005630131	329	300 ± 1	8,4	60	29	32	25	56	43	8
11005635101	11005635141	11005635151	11005635121	11005635131	379	350 ± 1	8,4	60	29	32	25	56	43	8
11005640101	11005640141	11005640151	11005640121	11005640131	429	400 ± 1	8,4	60	29	32	25	56	43	8
11005650101	11005650141	11005650151	11005650121	11005650131	529	500 ± 1	8,4	60	29	32	25	56	43	8
11005660101	11005660141	11005660151	11005660121	11005660131	629	600 ± 1	8,4	60	29	32	25	56	43	8
11005670101	11005670141	11005670151	11005670121	11005670131	729	700 ± 1	8,4	60	29	32	25	56	43	8
11005600010	11005600410	11005600510	11005600210	11005600310		-	6,4	53	23	26	20	47	40	6
11005600000	11005600400	11005600500	11005600200	11005600300		-	8,4	60	29	32	25	56	43	8



PA Black reinforced polyamide.
Through holes.



Code	L	A	C	M	H	h1	h2	h3	d	d1
11005711200	110	94±1	21	13	37	29	13	7	11	6,5
11005713200	133	116±1	25	14	40	30	16	8	14	9
11005713201	140	120±1	24	14	40	29	15	9	14	8,5
11005714200	151	132±1	26	14	43	31	16	9	14	8,5
11005718200	200	180±1	28	17	51	39	21	9	14	8,5
11005723200	262	235±1	32	20	53	40	21	11	17	10,5



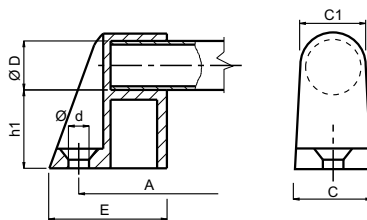
Available in orange color RAL 2004, red color RAL 3001, blue RAL 5005 and in other colors.





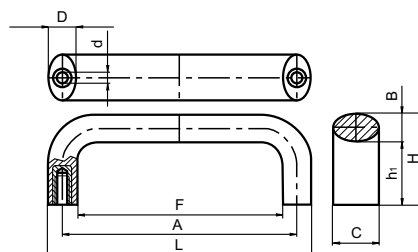
PA Black reinforced polyamide.
Through holes.
Tube in anodised aluminium.

Code	A	d	h1	C	C1	D	E	Color
11006020101	200±1	8,4	32	28	26	20	47,8	Black
11006030101	300±1	8,4	32	28	26	20	47,8	Black
11006040101	400±1	8,4	32	28	26	20	47,8	Black
11006050101	500±1	8,4	32	28	26	20	47,8	Black
11006070101	700±1	8,4	32	28	26	20	47,8	Black



PA Black reinforced polyamide.
Brass inserts.

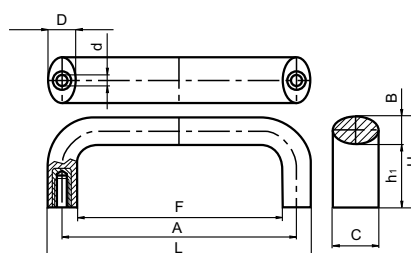
Code	L	A	d	B	H	h1	C	D	F	Color
47000509301	98,5	86±1	M6	12,5	40	28	20	12,5	73,5	Black
47000510301	106,5	94±1	M6	12,5	40	28	20	12,5	81,5	Black
47000513301	134	117±1	M6	16	50	34	25	16	102	Black
47000514301	148	132±1	M8	16	50	34	25	16	116	Black
47000516301	168	150±1	M8	18	58	40	29	18	132	Black
47000519301	197	179±1	M8	18	58	40	29	18	161	Black



PA Black reinforced polyamide.
Stainless steel inserts.

INOX
Stainless
Steel

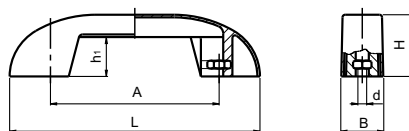
Code	L	A	d	B	H	h1	C	D	F	Color
47000509351	98,5	86±1	M6	12,5	40	28	20	12,5	73,5	Black
47000510351	106,5	94±1	M6	12,5	40	28	20	12,5	81,5	Black
47000513351	134	117±1	M6	16	50	34	25	16	102	Black
47000514351	148	132±1	M8	16	50	34	25	16	116	Black
47000516351	168	150±1	M8	18	58	40	29	18	132	Black
47000519351	197	179±1	M8	18	58	40	29	18	161	Black



470039 BRIDGE HANDLE INY 221



PA Black reinforced polyamide.
Treated steel nuts.

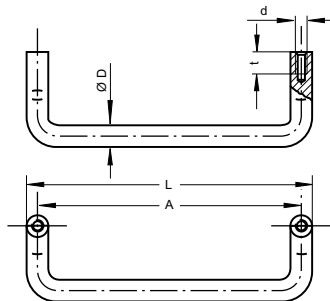


Code	L	A	d	H	h1	B	Material	Color
47003920301	198	132	M8	48	29	34	PA	Black

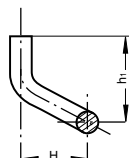
310006 BRIDGE HANDLE AE WITH THREADED HOLE



AL Anodized aluminium.
Molded thread.



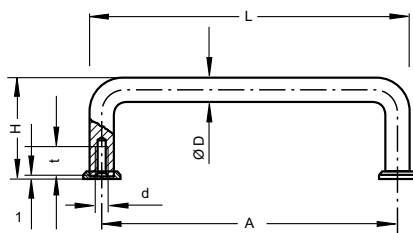
Code	L	A	d	H	h1	t	D	Color
31000610081	96	86	M5	30	40	10	10	Natural
31000610121	130	120	M5	30	40	10	10	Natural
31000610181	190	180	M5	30	40	10	10	Natural
31000610084	96	86	M5	30	40	10	10	Black
31000610124	130	120	M5	30	40	10	10	Black
31000610184	190	180	M5	30	40	10	10	Black



310007 BRIDGE HANDLE ST WITH THREADED HOLES



CR High gloss chromium plated
surface.
Threaded holes.
Chromium coloured brass cover
washers included.



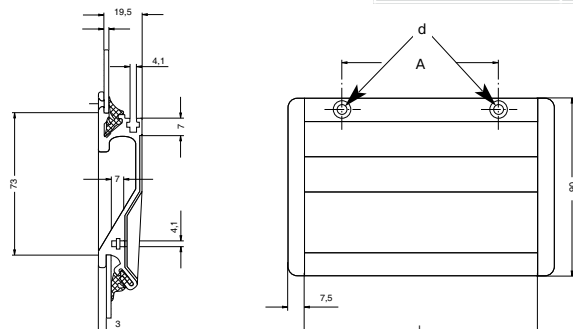
Code	L	A	d	H	t	D	Color
31000705031	37	32	M3	21	6	5	Silver
31000705041	47	42	M3	25	6	5	Silver
31000705051	60	55	M3	25	6	5	Silver
31000705071	81	76	M3	25	6	5	Silver
31000705081	93	88	M3	25	6	5	Silver
31000708031	40	32	M4	33	8	8	Silver
31000708051	63	55	M4	33	8	8	Silver
31000708061	72	64	M4	33	8	8	Silver
31000708081	96	88	M4	33	8	8	Silver
31000708091	104	96	M4	33	8	8	Silver
31000708101	106	98	M4	33	8	8	Silver
31000708111	110	102	M4	33	8	8	Silver
31000708121	128	120	M4	33	8	8	Silver
31000708131	136	128	M4	33	8	8	Silver
31000708141	144	136	M4	33	8	8	Silver
31000710051	65	55	M5	41	10	10	Silver
31000710081	98	88	M5	41	10	10	Silver
31000710101	110	100	M5	41	10	10	Silver
31000710111	112	102	M5	41	10	10	Silver
31000710121	125	115	M5	41	10	10	Silver
31000710131	130	120	M5	41	10	10	Silver
31000710141	146	136	M5	41	10	10	Silver
31000710181	190	180	M5	41	10	10	Silver
31000710201	210	200	M5	41	10	10	Silver
31000710231	245	235	M5	41	10	10	Silver
31000710251	260	250	M5	41	10	10	Silver

310009 FLUSH PULL HANDLE SG



AL Anodized aluminium.
 Profiled aluminium tray, natural colour anodized.
 Side end caps of polyamide PA 6, glass ball
 reinforced, black, half-matt with fine structure.

Code	L	A	d	Handle housing	Versión	Color
31000910011	100	-	-	104 x 73	A	Natural
31000911011	118	-	-	122 x 73	A	Natural
31000916011	167	-	-	171 x 73	A	Natural
31000910014	100	-	-	104 x 73	A	Black
31000911014	118	-	-	122 x 73	A	Black
31000916014	167	-	-	171 x 73	A	Black
31000910021	100	60	4,5	104 x 73	B	Natural
31000911021	118	78	4,5	122 x 73	B	Natural
31000916021	167	127	4,5	171 x 73	B	Natural
31000910024	100	60	4,5	104 x 73	B	Black
31000911024	118	78	4,5	122 x 73	B	Black
31000916024	167	127	4,5	171 x 73	B	Black



Version A: Mounting from behind by included setscrews, M6 x 30 (2x) and M6 x 40 (2x), DIN 914 made of stainless steel.

Version B: Mounting from outside for countersunk screws, M4 x 10, DIN 963/964/966.

Design advantages: Simple mounting for wall thicknesses of 1- 5 mm.

Version B includes two screws for a strong hold and in case it is not possible to access the interior to place the 2nd rubber insert. For assembly you have to insert the lower part with its rubber insert and then place the two sides of black polyamide. Then place the 2nd rubber insert in version A or the two screws in version B.

310012 LEDGE HANDLE LG 04-05



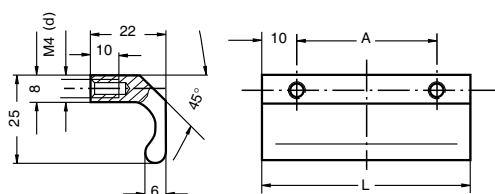
AL Anodized aluminium (AlMgSi 0.5).
 Vibration ground, and anodized with
 a matt finish in natural or black
 colour.

Code	L	A	d	Color
31001204031	50	30	M4	Natural
31001204041	65	45	M4	Natural
31001204061	84	64	M4	Natural
31001204071	90	70	M4	Natural
31001204081	100	80	M4	Natural
31001204091	110	90	M4	Natural
31001204034	50	30	M4	Black
31001204044	65	45	M4	Black
31001204064	84	64	M4	Black
31001204074	90	70	M4	Black
31001204084	100	80	M4	Black
31001204094	110	90	M4	Black
31001204001	1m	-	-	Natural
31001204004	1m	-	-	Black

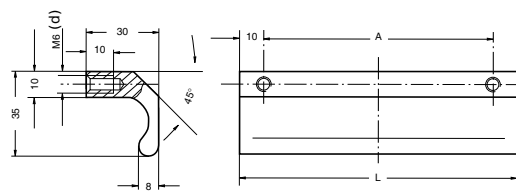
Code	L	A	d	Color
31001205061	84	64	M6	Natural
31001205071	90	70	M6	Natural
31001205081	100	80	M6	Natural
31001205091	110	90	M6	Natural
31001205101	125	105	M6	Natural
31001205064	84	64	M6	Black
31001205074	90	70	M6	Black
31001205084	100	80	M6	Black
31001205094	110	90	M6	Black
31001205104	125	105	M6	Black
31001205001	1m	-	-	Natural
31001205004	1m	-	-	Black

VERSION LG 05

VERSION LG 04

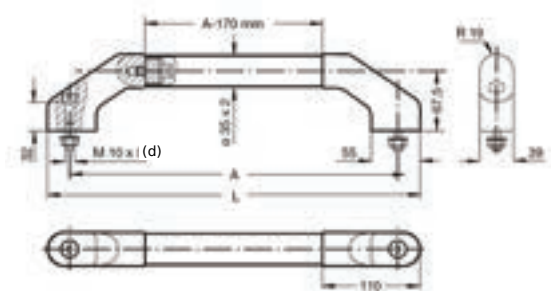


VERSION LG 04



VERSION LG 05

310018 TUBULAR HANDLE MS



Code	L	A	d	Color
31001802041	450	400	M10	Natural
31001802061	650	600	M10	Natural
31001802081	850	800	M10	Natural
31001802101	1050	1000	M10	Natural
31001802045	450	400	M10	Black
31001802065	650	600	M10	Black
31001802085	850	800	M10	Black
31001802105	1050	1000	M10	Black

ALUMINIUM TUBE VERSION

Connecting tube of aluminium AlMgSi 0.5; $\varnothing 35 \times 2$ mm, fine ground and anodized in natural colour resp. with grooved black plastic cover or black powder coated with fine structure.

Code	L	A	d	Color
31001802043	450	400	M10	Natural
31001802063	650	600	M10	Natural
31001802083	850	800	M10	Natural
31001802103	1050	1000	M10	Natural

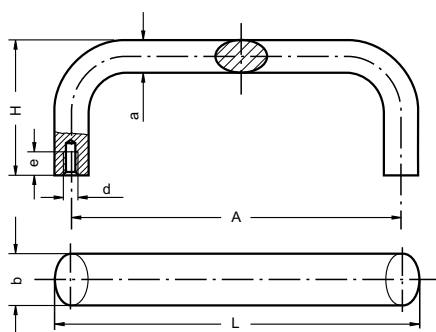
STAINLESS STEEL TUBE VERSION

Connecting tube of stainless steel 1.4301; $\varnothing 35 \times 2$ mm, fine ground.



Handle shank: AL Aluminium (AlSiCu 12) black powder coated, half-matt with fine structure.
Incl. stainless steel hexagon socket head cup screws M10x50 DIN 912, nuts DIN 934 and washers DIN 125.

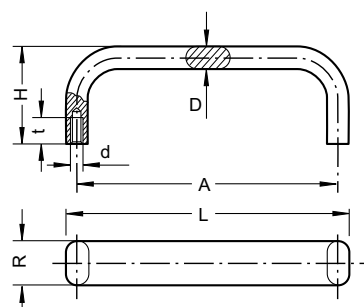
310019 BRIDGE HANDLE MO



AL Oval-profiled aluminium (AlMgSi 0.5).
Surface ground and natural coloured or black anodized.
With fine structure powder coated in silver or black.

Code	L	A	d	H	e	a	b	Color
31001920101	113	100	M6	50	12	13	20	Natural
31001920111	125	112	M6	50	12	13	20	Natural
31001920121	133	120	M6	50	12	13	20	Natural
31001920131	141	128	M6	50	12	13	20	Natural
31001920161	173	160	M6	50	12	13	20	Natural
31001920104	113	100	M6	50	12	13	20	Black
31001920114	125	112	M6	50	12	13	20	Black
31001920124	133	120	M6	50	12	13	20	Black
31001920134	141	128	M6	50	12	13	20	Black
31001920164	173	160	M6	50	12	13	20	Black
31001926111	125	112	M8	55	14	17	26	Natural
31001926121	133	120	M8	55	14	17	26	Natural
31001926131	141	128	M8	55	14	17	26	Natural
31001926161	173	160	M8	55	14	17	26	Natural
31001926181	193	180	M8	55	14	17	26	Natural
31001926191	205	192	M8	55	14	17	26	Natural
31001926351	363	350	M8	55	14	17	26	Natural
31001926114	125	112	M8	55	14	17	26	Black
31001926124	133	120	M8	55	14	17	26	Black
31001926134	141	128	M8	55	14	17	26	Black
31001926164	173	160	M8	55	14	17	26	Black
31001926184	193	180	M8	55	14	17	26	Black
31001926194	205	192	M8	55	14	17	26	Black
31001926354	363	350	M8	55	14	17	26	Black

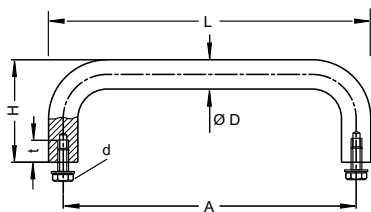
310020 BRIDGE HANDLE MF



AL Flat-oval profiled aluminium (AlMgSi 0.5).
Ground and anodized with a matt finish in natural or black colour.
Alternatively silver or black coated.

Code	L	A	d	D	H	R	t	Material	Color
31002020121	130	120	M5	10	45	20	10	AL	Natural
31002020141	150	140	M5	10	45	20	10	AL	Natural
31002020181	190	180	M5	10	45	20	10	AL	Natural
31002020201	210	200	M5	10	45	20	10	AL	Natural
31002020351	360	350	M6	10	45	20	12	AL	Natural
31002020124	130	120	M5	10	45	20	10	AL	Black
31002020144	150	140	M5	10	45	20	10	AL	Black
31002020184	190	180	M5	10	45	20	10	AL	Black
31002020204	210	200	M5	10	45	20	10	AL	Black
31002020354	360	350	M6	10	45	20	12	AL	Black

310025 STAINLESS STEEL 316L BRIDGE HANDLE VA



Stainless steel rod AISI 316L (1.4404), marine grade.
Including stainless steel hexagon head screws DIN 933
and washers DIN 125.

Stainless steel cover plates(optional).

Ø 8 Code 31002500008 (Pack of 20 pieces)

Ø 10 Code 31002500010 (Pack of 20 pieces)

Ø 15 Code 31002500015 (Pack of 2 pieces)

Ø 20 Code 31002500020 (Pack of 2 pieces)



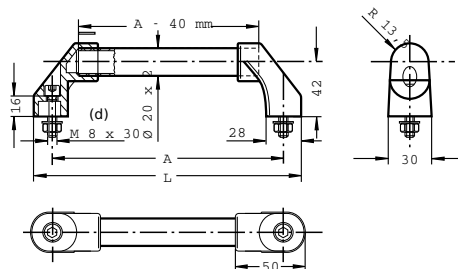
Code	L	A	d	D	H	t	Color
31002508060	72	64	M5	8	35	10	Natural
31002508081	96	88	M5	8	35	10	Natural
31002508101	108	100	M5	8	35	10	Natural
31002508120	128	120	M5	8	35	10	Natural
31002510100	110	100	M5	10	40	10	Natural
31002510120	130	120	M5	10	40	10	Natural
31002510180	190	180	M5	10	40	10	Natural
31002510250	260	250	M5	10	40	10	Natural
31002510300	310	300	M5	10	40	10	Natural
31002510350	360	350	M5	10	40	10	Natural
31002515150	165	150	M6	15	55	12	Natural
31002515200	215	200	M6	15	55	12	Natural
31002515250	265	250	M6	15	55	12	Natural
31002515300	315	300	M6	15	55	12	Natural
31002515350	365	350	M6	15	55	12	Natural
31002520200	220	200	M8	20	70	16	Natural
31002520250	270	250	M8	20	70	16	Natural
31002520300	320	300	M8	20	70	16	Natural
31002520350	370	350	M8	20	70	16	Natural

310027 TUBULAR HANDLE RS20



Code	L	A	d	Color
31002720181	210	180	M8	Natural
31002720201	230	200	M8	Natural
31002720251	280	250	M8	Natural
31002720301	330	300	M8	Natural
31002720351	380	350	M8	Natural
31002720401	430	400	M8	Natural
31002720501	530	500	M8	Natural
31002720601	630	600	M8	Natural
31002720180	210	180	M8	Black
31002720200	230	200	M8	Black
31002720250	280	250	M8	Black
31002720300	330	300	M8	Black
31002720350	380	350	M8	Black
31002720400	430	400	M8	Black
31002720500	530	500	M8	Black
31002720600	630	600	M8	Black

VERSION RS20 WITH ALUMINIUM TUBE



RS20

Handle shanks and blanking caps made of high duty polyamide PA6, glass ball reinforced, black, similar to RAL 9005, half-matt, with fine structure.

Connecting tubes made of aluminium AlMgSi 0.5 ground and anodized in natural colour, black powder coated or polished stainless steel (1.4301) natural.

Including black galvanized hexagon socket head cap screws (chromium VI free)

M10x45 DIN 912 and galvanized nuts DIN 934 with washers DIN 125.

Handle shank, 1 piece, with mounting material

Code Ø20 31002720000

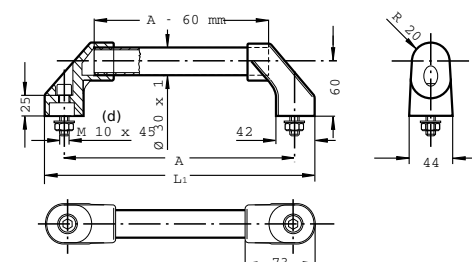
Code Ø30 31002730000

Code	L	A	d	Color
31002730251	294	250	M10	Natural
31002730301	344	300	M10	Natural
31002730351	394	350	M10	Natural
31002730401	444	400	M10	Natural
31002730501	544	500	M10	Natural
31002730601	644	600	M10	Natural
31002730250	294	250	M10	Black
31002730300	344	300	M10	Black
31002730350	394	350	M10	Black
31002730400	444	400	M10	Black
31002730500	544	500	M10	Black
31002730600	644	600	M10	Black

VERSION RS30 WITH ALUMINIUM TUBE

Code	L	A	d	Color
31002730253	300	250	M10	Natural
31002730303	350	300	M10	Natural
31002730353	400	350	M10	Natural
31002730403	450	400	M10	Natural
31002730503	550	500	M10	Natural
31002730603	650	600	M10	Natural

VERSION RS30 WITH STAINLESS STEEL TUBE

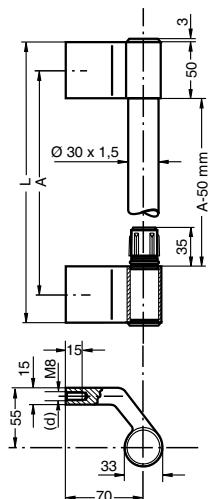


RS30

310035



Handle shank of extruded aluminium
AlMgSi 0.5 with satin finish, black
anodized.
Shank insert of polyamide PA6, glass bead
rein- forcement, black.
Connecting tubes of ø30x1.5 mm
aluminium AlMgSi 0.5; fine ground and
anodized natural-coloured.

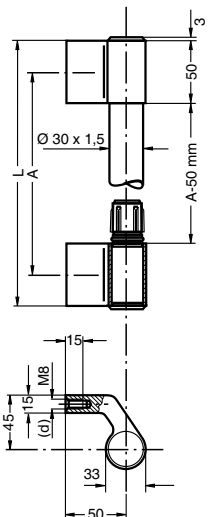


Code	L	A	d	Color
31003532001	250	200	M8	Natural
31003532501	300	250	M8	Natural
31003533001	350	300	M8	Natural
31003533501	400	350	M8	Natural
31003534001	450	400	M8	Natural
31003535001	550	500	M8	Natural
31003536001	650	600	M8	Natural

310046



Handle shanks made of extruded aluminium AlMgSi 0.5; black anodized with a matt finish.
Shank insert made of polyamide PA6, glass ball reinforced, black, visible surface with fine structure.
Connecting tubes $\varnothing 30 \times 1.5$ mm aluminium AlMgSi 0.5; fine ground and anodized in natural-coloured.



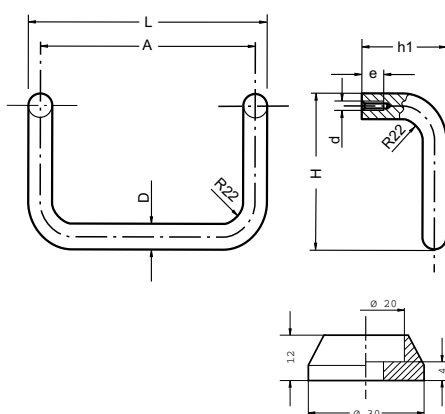
Code	L	A	d	Color
31004631201	250	200	M8	Natural
31004631251	300	250	M8	Natural
31004631301	350	300	M8	Natural
31004631351	400	350	M8	Natural
31004631401	450	400	M8	Natural
31004631501	550	500	M8	Natural
31004631601	650	600	M8	Natural

310036



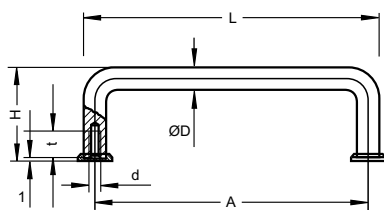
AL Anodized aluminium (AlMgSi 0.5).
Ground, glass ball blasted and anodized in 2 colours
with satin finish.

AL cover plates for Ø20:
Natural Code 31003620001
Black Code 31003620004



Code	L	A	d	D	e	h1	H	Color
31003620201	220	200	M8	20	15	70	130	Natural
31003620251	270	250	M8	20	15	70	130	Natural
31003620301	320	300	M8	20	15	70	130	Natural
31003620351	370	350	M8	20	15	70	130	Natural
31003620401	420	400	M8	20	15	70	130	Natural
31003630301	330	300	M10	30	15	100	175	Natural
31003630351	380	350	M10	30	15	100	175	Natural
31003630401	430	400	M10	30	15	100	175	Natural
31003630501	530	500	M10	30	15	100	175	Natural
31003620204	220	200	M8	20	15	70	130	Black
31003620254	270	250	M8	20	15	70	130	Black
31003620304	320	300	M8	20	15	70	130	Black
31003620354	370	350	M8	20	15	70	130	Black
31003620404	420	400	M8	20	15	70	130	Black
31003630304	330	300	M10	30	15	100	175	Black
31003630354	380	350	M10	30	15	100	175	Black
31003630404	430	400	M10	30	15	100	175	Black
31003630504	530	500	M10	30	15	100	175	Black

310037 BRIDGE HANDLE RA



AL Round bar aluminium $\varnothing 10$ mm, AlMgSi 0.5.
Surface glass ball blasted and anodized with a satin finish
in natural or black colour.
Al cover plates.
Natural Code: 310037 00 001 (Pack of 20 pieces.)
Black Code: 310037 00 004 (Pack of 20 pieces.)

Code	L	A	d	D	t	H	Color
31003700501	65	55	M5	10	10	41	Natural
31003700801	98	88	M5	10	10	41	Natural
31003701001	110	100	M5	10	10	41	Natural
31003701201	130	120	M5	10	10	41	Natural
31003701801	190	180	M5	10	10	41	Natural
31003702001	210	200	M5	10	10	41	Natural
31003702301	245	235	M5	10	10	41	Natural
31003702501	260	250	M5	10	10	41	Natural
31003700504	65	55	M5	10	10	41	Black
31003700804	98	88	M5	10	10	41	Black
31003701004	110	100	M5	10	10	41	Black
31003701204	130	120	M5	10	10	41	Black
31003701804	190	180	M5	10	10	41	Black
31003702004	210	200	M5	10	10	41	Black
31003702304	245	235	M5	10	10	41	Black
31003702504	260	250	M5	10	10	41	Black

310042 BRIDGE HANDLE AG



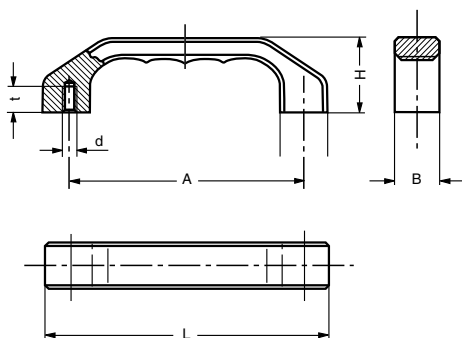
INOX
Stainless Steel

AL Anodized aluminium (AlMgSi 0.5).
Glass ball blasted with satin finish in natural-
coloured, black, silver and a stainless steel 1.4404
with a half-matt finish version.

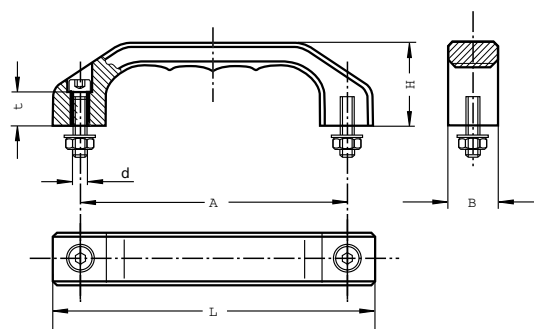
Version R including hexagon head screws DIN 933
and washers DIN 125 of stainless steel.

Version F supplied incl. cheese head screws with
hexagon socket DIN 912, nuts DIN 934 and
galvanized washers DIN 125 of stainless steel.

Code	L	A	d	B	t	H	Versión	Material	Color
31004214010	146	120	M6	22	15	39	R	AL	Natural
31004217010	170	140	M8	25	16	45	R	AL	Natural
31004219010	194	160	M8	28	20	52	R	AL	Natural
31004214110	146	120	M6	22	15	39	R	AL	Black
31004217110	170	140	M8	25	16	45	R	AL	Black
31004219110	194	160	M8	28	20	52	R	AL	Black
31004214210	146	120	M6	22	15	39	R	AL	Silver
31004217210	170	140	M8	25	16	45	R	AL	Silver
31004219210	194	160	M8	28	20	52	R	AL	Silver
31004217310	170	140	M8	25	15	45	R	INOX	Natural
31004221310	218	180	M10	32	18	58	R	INOX	Natural
31004214020	146	120	6	22	12	39	F	AL	Natural
31004217020	170	140	8	25	15	45	F	AL	Natural
31004219020	194	160	8	28	15	52	F	AL	Natural
31004214120	146	120	6	22	12	39	F	AL	Black
31004217120	170	140	8	25	15	45	F	AL	Black
31004219120	194	160	8	28	15	52	F	AL	Black
31004214220	146	120	6	22	12	39	F	AL	Silver
31004217220	170	140	8	25	15	45	F	AL	Silver
31004219220	194	160	8	28	15	52	F	AL	Silver
31004217320	170	140	8	25	15	45	F	INOX	Natural
31004221320	218	180	10	32	18	58	F	INOX	Natural



VERSION AG-R REAR MOUNTING



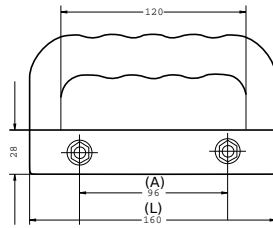
VERSION AG-F FRONT MOUNTING

310043



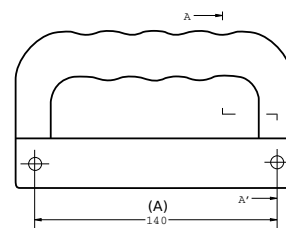
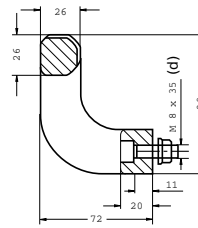
AL Aluminium AlSiCu 12.
Vibration ground and black
powder coated, half-matt
with fine structure.

Code	L	A	d	Versión	Material	Color
31004301101	160	140	M8	R	AL	Black
31004301001	160	96	8	F	AL	Black



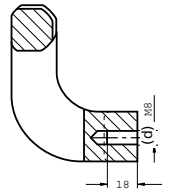
VERSION F

Through hole for hexagon socket head cap screw M8 for screw attachment from the front.
Including stainless steel hexagon socket head cap screw DIN 192 M8 x 35, nuts DIN 934 and washers DIN 125.



VERSION R

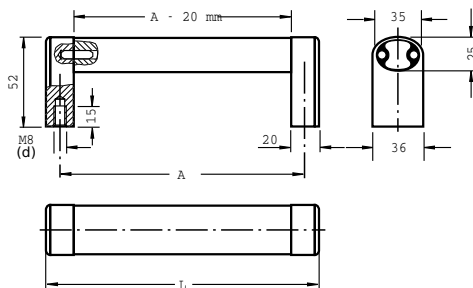
Internal thread M8 for screw attachment from behind.
Screws not included.



310047 TUBULAR HANDLE A4



AL Handle shanks and connecting tube
of extruded aluminium AlMgSi 0.5.
Handle shanks anodized with dull
bright finish, connecting profiles mat-
ted and anodized.
Clamping sleeves of stainless steel.

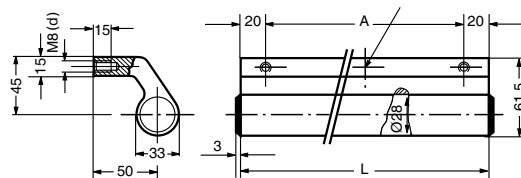


Code	L	A	d	Material	Ends	Color
31004735201	220	200	M8	AL	Natural	Natural
31004735251	270	250	M8	AL	Natural	Natural
31004735301	320	300	M8	AL	Natural	Natural
31004735401	420	400	M8	AL	Natural	Natural
31004735501	520	500	M8	AL	Natural	Natural
31004735202	220	200	M8	AL	Black	Natural
31004735252	270	250	M8	AL	Black	Natural
31004735302	320	300	M8	AL	Black	Natural
31004735402	420	400	M8	AL	Black	Natural
31004735502	520	500	M8	AL	Black	Natural
31004735203	220	200	M8	AL	Natural	Black
31004735253	270	250	M8	AL	Natural	Black
31004735303	320	300	M8	AL	Natural	Black
31004735403	420	400	M8	AL	Natural	Black
31004735503	520	500	M8	AL	Natural	Black
31004735204	220	200	M8	AL	Black	Black
31004735254	270	250	M8	AL	Black	Black
31004735304	320	300	M8	AL	Black	Black
31004735404	420	400	M8	AL	Black	Black
31004735504	520	500	M8	AL	Black	Black

310048 LEDGE HANDLE W3

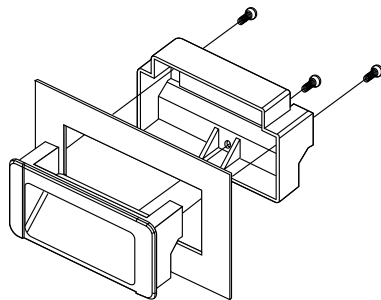


AL Profiled aluminium AlMgSi 0.5.
Anodized in natural colour or black with half-matt finish.
End caps of polyamide PA6, black, with fine structure.

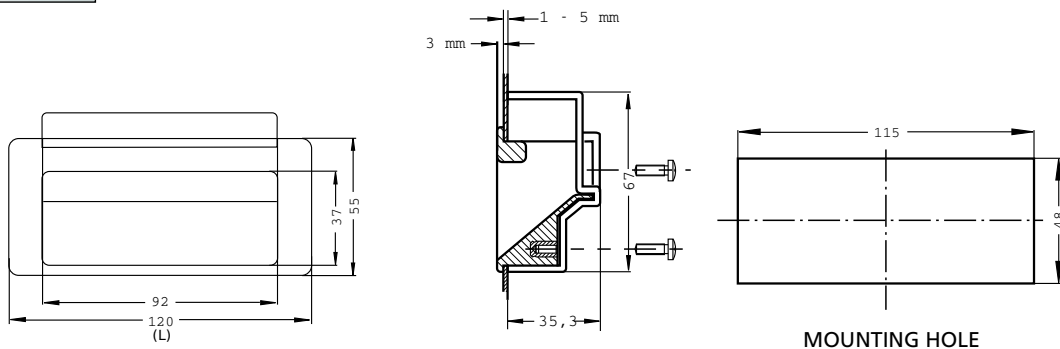


Code	L	A	d	Material	Color
31004811001	150	110	M8	AL	Natural
31004816001	200	160	M8	AL	Natural
31004821001	250	210	M8	AL	Natural
31004826001	300	260	M8	AL	Natural
31004831001	350	310	M8	AL	Natural
31004836001	400	360	M8	AL	Natural
31004846001	500	460	M8	AL	Natural
31004856001	600	560	M8	AL	Natural
31004811004	150	110	M8	AL	Black
31004816004	200	160	M8	AL	Black
31004821004	250	210	M8	AL	Black
31004826004	300	260	M8	AL	Black
31004831004	350	310	M8	AL	Black
31004836004	400	360	M8	AL	Black
31004846004	500	460	M8	AL	Black
31004856004	600	560	M8	AL	Black

310051 FLUSH INSET HANDLE KM



Code	L	Material	Color
31005148111	120	PA	Stone grey
31005148112	120	PA	Light grey
31005148113	120	PA	Grey white
31005148114	120	PA	Black



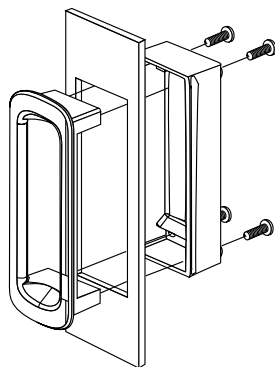
MOUNTING HOLE

PA Polyamide PA6, glass ball reinforced, half-matt with fine structure.
4 different colour versions.
Includes galvanized Phillips recess raised cheese head screw DIN 7985.
Simple and secure screw mounting for wall thicknesses from 1-5 mm.

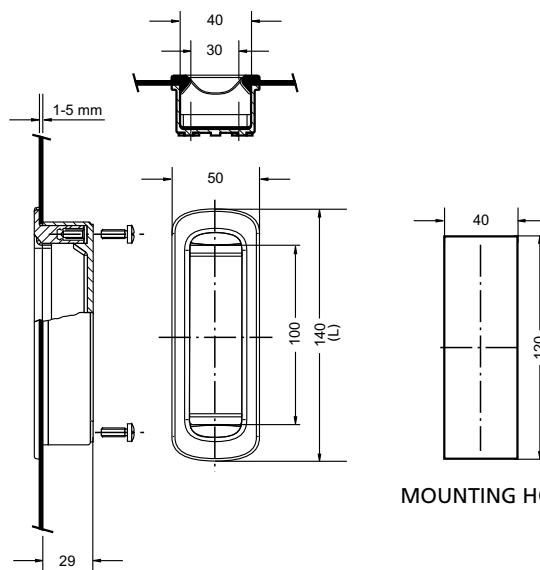
Mounting:

The front section will be set into the recess of the housing wall first. Now the rear section can be pushed onto the front section, which is projected into the housing interior. Afterwards the handle will be fixed in position by three screws.

310052 FLUSH INSET HANDLE KS



Code	L	Material	Color
31005240121	140	PA	Stone grey
31005240122	140	PA	Light grey
31005240123	140	PA	Grey white
31005240124	140	PA	Black



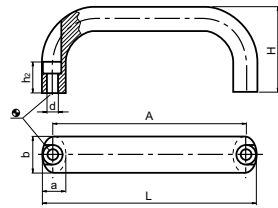
MOUNTING HOLE

Polyamide PA 6, glass ball reinforcement.
4 different colour versions.
Suitable for a panel thickness between 1-5 mm.
Includes galvanised oval head screws with cross recess DIN 7985.

Mounting:

The front section is first set into the recess in the housing panel. The rear section is now pushed onto the front section which projects into the housing interior. The handle is then fixed in position with the aid of 4 screws.

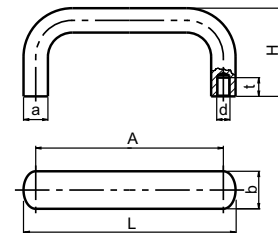
370033 BRIDGE HANDLE OV FRONT MOUNTING



Code	L	A	d	b	H	a	h2	Color
37003300141	130	116	6,4	26	55	17	17	Natural
37003300151	146	132	6,4	26	55	17	17	Natural
37003300161	178	164	6,4	26	57	17	17	Natural
37003300171	210	196	6,4	26	57	17	17	Natural
37003300341	130	116	6,4	26	55	17	17	Black
37003300351	146	132	6,4	26	55	17	17	Black
37003300361	178	164	6,4	26	57	17	17	Black
37003300371	210	196	6,4	26	57	17	17	Black

AL Aluminium, drawn, bright, vibratory grinded.
Natural finish or plastic coated, black colour similar to RAL 9005.
Ergonomic profile design with very high stability.

370033 BRIDGE HANDLE OV REAR MOUNTING



Code	L	A	d	b	H	a	t	Material	Color
37003300100	113	100	M6	20	49	13	10	AL	Natural
37003300110	125	112	M6	20	49	13	10	AL	Natural
37003300120	141	128	M6	20	51	13	10	AL	Natural
37003300130	173	160	M6	20	51	13	10	AL	Natural
37003300140	129	112	M8	26	55	17	12	AL	Natural
37003300150	145	128	M8	26	55	17	12	AL	Natural
37003300160	177	160	M8	26	57	17	12	AL	Natural
37003300170	209	192	M8	26	57	17	12	AL	Natural
37003300180	317	300	M8	26	57	17	12	AL	Natural
37003300190	417	400	M8	26	57	17	12	AL	Natural
37003300300	113	100	M6	20	49	13	10	AL	Black
37003300310	125	112	M6	20	49	13	10	AL	Black
37003300320	141	128	M6	20	51	13	10	AL	Black
37003300330	173	160	M6	20	51	13	10	AL	Black
37003300340	129	112	M8	26	55	17	12	AL	Black
37003300350	145	128	M8	26	55	17	12	AL	Black
37003300360	177	160	M8	26	57	17	12	AL	Black
37003300370	209	192	M8	26	57	17	12	AL	Black
37003300380	317	300	M8	26	57	17	12	AL	Black
37003300390	417	400	M8	26	57	17	12	AL	Black
37003300510	125	112	M6	20	49	13	10	SS	Natural
37003300520	141	128	M6	20	51	13	10	SS	Natural

AL Aluminium, drawn, bright, vibratory grinded.
Natural finish, plastic coated black colour similar to RAL 9005 or stainless steel 1.4301, dull blasted.
Ergonomic profile design with very high stability.

INOX
Stainless
Steel

310049 TL.W1 HANDLE WITH FRONT OR BEHIND ATTACHMENT



Front version

Code (Behind)	Code (Front)	L	A
31004972073	31004972093	225	200
31004972573	31004972593	275	250
31004973073	31004973093	325	300
31004973573	31004973593	375	350
31004974073	31004974093	425	400
31004975073	31004975093	525	500
31004976073	31004976093	625	600

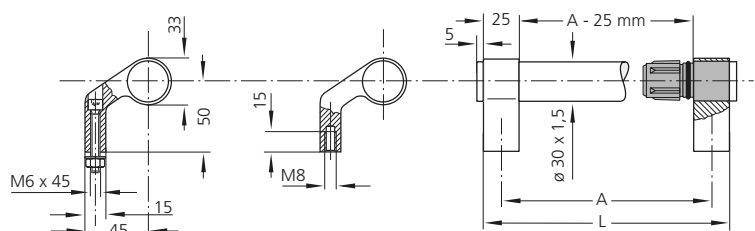
Tube $\varnothing 30 \times 1,5$ mm of stainless steel, material no. 1.4301; fine ground.

Handle shanks of extruded aluminium AlMgSi 0.5; natural colour anodized with dull bright finish.
Shank insert of polyamide PA6 with a fixed disc of stainless steel, material no. 1.4305; fine lathed.
Front type incl. stainless steel cylinder head socket screws M6x45 DIN 912, nuts DIN 934 and washers DIN 125.

Stress resistance: min. 1000 N.

INOX
Stainless
Steel

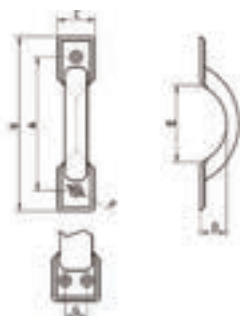
Front Attachment Behind Attachment



410071 DEEP DRAWN HANDLE



Nikel plated steel.



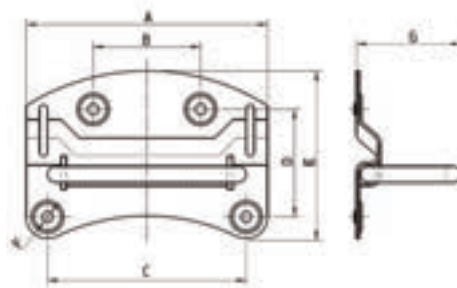
Code	A	B	C	D	E	F	G
41007108000	66	80	18,5	13	38	3,2	-
41007110000	83	100	21,5	13	48	3,2	-
41007112000	99	120	24,5	16	60	3,2	-
41007114000*	121	140	28,5	19	70	3,2	13,5
41007116000*	140	160	29,5	24	80	3,2	13,5

*These models have two mounting holes at each end of the handle.

410073 TRUNK-HANDLE



Zinc plated steel.
Wire diameter 6,5mm.

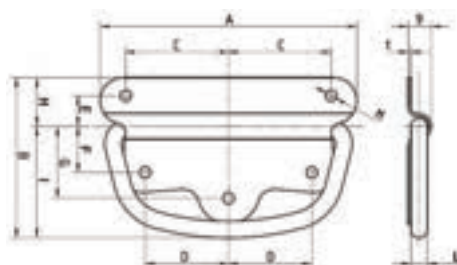


Code	A	B	C	D	E	F	G
41007309000	90	42	72	40	67	4,2	40
41007311000	110	57	84	48	84	4,5	55

410074 CASE-HANDLE



Zinc plated steel.



Code	A	B	C	D	E	F	G	H	I	L	M
41007408000	80	56	33	27	11	13	20	18	38	6	4
41007409000	90	61	37,5	30	11	20	28	17	44	6,5	4,4
41007410000	100	62,5	40	32,5	12	18	28	19	43,5	6,5	4,4
41007411000	110	66,5	45	37,5	13	25	37	19	47,5	7	5

Industrial Handles

Handles of single elements



Clean line



Front panel handles & ledge handles



Bow type handles of round steel rod



Aluminium bow type handles



Stainless steel handles



Collapsible tray and carrying handles



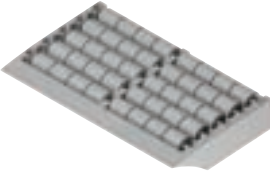
Handles with functions



Request detailed information for these types of handles

Conveyor components

Tecnodin supplies a wide variety of components and accessories for the assembly of conveyor belts designed for the food and bottling industry. Support bases, heads, supports and guide-holder clamps made of technopolymer and provided with stainless or galvanized screws.

 420007 SUPPORT BASES	 420012 BEARINGS HEAD	 420019 SIDE MOUNTING TOPS	 420014 HEADS FOR BRACKETS
 420035 GUIDE RAIL CLAMPS	 420083 GUIDE RAIL BRACKETS	 420020 CONNECTING JOINTS	 420042 CLAMPS SUPPORTS
 420069 MODULAR TRANSFER PLATES	 430012 ROLLERS FOR CHAIN RETURN	 420049 IDLER WHEELS	 420075 SLIDING SHOE SORTERS
 430093 PRODUCTS GUIDES	 420076 CONVEYOR BEARING SUPPORTS	 420081 SPLIT SHAFT COLLARS	 420046 HINGES
 420061 CHAIN TENSIONERS	 420026 KNOBS AND GRIPS	 430010 EXPANSION CAPS	 430023 SIZE CHANGING

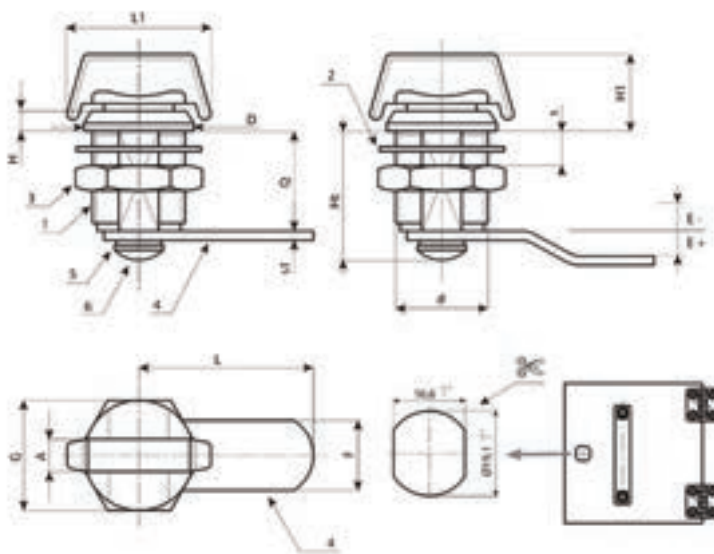
Consult the complete range on our website
www.tecnodin.es

470027 UNIVERSAL LOCK WITH KNOB



Code	A	d	D	L1	L	Q	E	F	G	H1	Ht	H	s(max.)	s1
47002720002	6.5	M19	22	29,5	30	20	0	14	22	15	31	4	6	2,5
47002725102	6.5	M19	22	29,5	30	20	5	14	22	15	31	4	6	2,5

- (1) Die-cast zamak lock body M19 (stator), rotor and knob. Nickel-plated.
 (2) Elastic washer d. 24x1 with bore d. 19.4.
 (3) Galvanised steel hexagon lock nut M19x1.
 (4) Galvanised steel locking lever. (Qn design N flat - Qe design E bent outwards).
 (5) Conical steel elastic washer d. 12x1.5.
 (6) Galvanised steel Phillips dome head screw M5x8. Rotation:90°



470027T UNIVERSAL LOCK WITH TRIANGULAR INSERT KEY

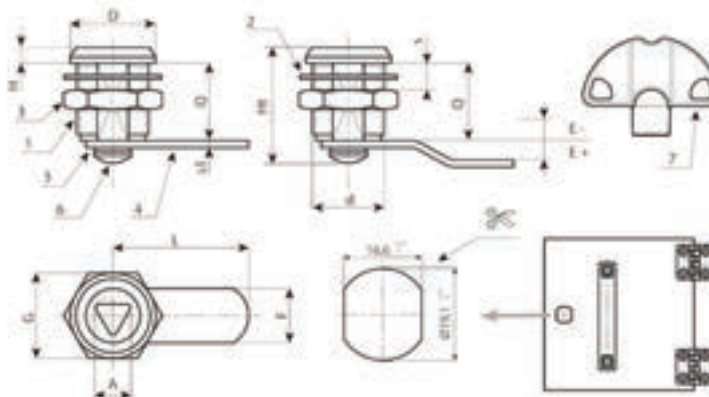


Code	A	d	D	L	Q	E	F	G	Ht	H	s(max.)	s1
47002720001	6,5	M19	22	38	20	0	16	22	31	4	6	2.5
47002722000	6,5	M19	22	38	20	2	16	22	31	4	6	2.5
47002725101	6,5	M19	22	35	20	5	16	22	31	4	6	2.5
47002729101	6,5	M19	22	35	20	9	16	22	31	4	6	2.5



- (7) Red plastic key, Code 47002801002.
 ATTENTION: The key is not supplied. To be ordered separately.
 Also available for 8mm

- (1) Die-cast zamak lock body M19 (stator) and rotor. 6 mm triangular insert key. Nickel-plated.
 (2) Elastic washer d. 24x1 with bore d. 19.4.
 (3) Steel hexagon lock nut M19x1.
 (4) Steel locking lever (Qn design N flat - Qe design E bent outwards).
 (5) Conical steel elastic washer d. 12x1.5.
 (6) Steel Phillips dome head screw M5x8. Rotation:90°



470027W UNIVERSAL LOCK FOR WINGED TUBE KEY

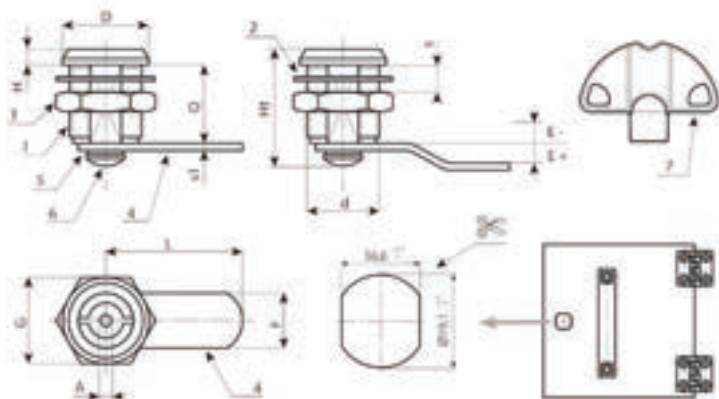


- (1) Die-cast zamak lock body M19 (stator) and rotor. Nickel-plated. 3 mm winged tubular key.
- (2) Elastic washer d. 24x1 with bore d. 19.4.
- (3) Steel hexagon lock nut M19x1.
- (4) Steel locking lever. (Qn design N flat - Qe design E bent outwards).
- (5) Conical steel elastic washer d. 12x1.5.
- (6) Steel Phillips dome head screw M5x8. Rotation:90°

Code	A	d	D	L	Q	E	F	G	Ht	H	s(max.)	s1
47002720003	3	M19	22	38	20	0	16	22	31	4	6	2,5
47002722001	3	M19	22	38	20	2	16	22	31	4	6	2,5
47002725103	3	M19	22	35	20	5	16	22	31	4	6	2,5
47002729103	3	M19	22	35	20	9	16	22	31	4	6	2,5



(7) Red plastic key, Code 47002802002.
ATTENTION: The key is not supplied. To be ordered separately.



470027SQ UNIVERSAL LOCK WITH SQUARE INSERT KEY

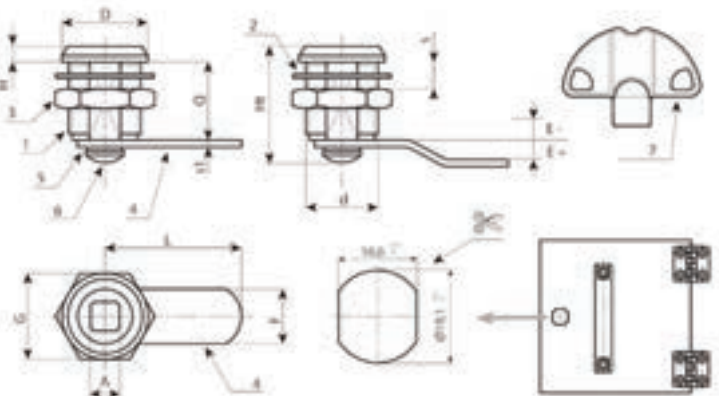


- (1) Die-cast zamak lock body M19 (stator) and rotor. Nickel-plated.
- (2) Elastic washer d. 24x1 with bore d. 19.4.
- (3) Steel hexagon lock nut M19x1.
- (4) Steel locking lever.
- (5) Conical steel elastic washer d. 12x1.5.
- (6) Steel Phillips dome head screw M5x8. Rotation:90°

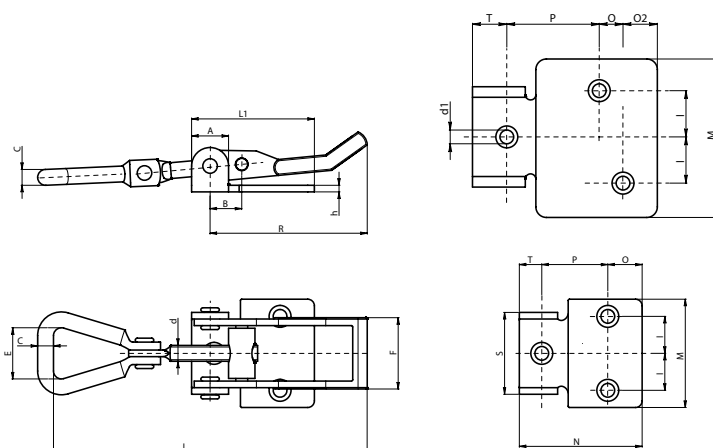
Code	A	d	D	L	Q	E	F	G	Ht	H	s(max.)	s1
47002722104	7	M19	22	38	20	0	16	22	31	4	6	2,5
47002725104	7	M19	22	38	20	2	16	22	31	4	6	2,5
47002729104	7	M19	22	35	20	5	16	22	31	4	6	2,5
47002737104	7	M19	22	35	20	9	16	22	31	4	6	2,5



(7) Red plastic key, Code 47002803002.
ATTENTION: The key is not supplied. To be ordered separately.



470082 ADJUSTABLE STEEL TOGGLE LATCH



Adjustable toggle latch made of sheared galvanised steel. Glossy finish.

The catch plate must be ordered separately from the toggle latch.

COMBINABLE CATCH PLATES:

Art. 47008204001 combinable with catch plates: 47008304001 y 47008304002.

Art. 47008206001 combinable with catch plates: 47008306001, 47008306002 y 47008306003.

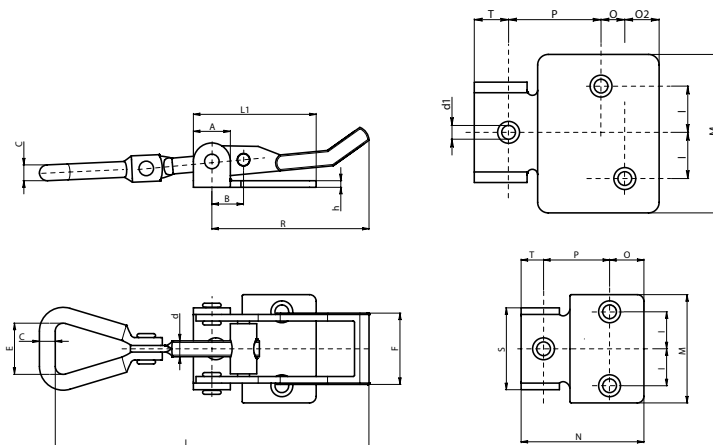
Art. 47008211001 combinable with catch plates: 47008306001, 47008306002 y 47008306003.

Code	R	L	L1/N	A	B	C	d	d1	E	F	h	I	M	O	O2	P	T	S
47008204001	48	66-75	35	10	11	4,3	M5	5,5	18	17	2	7,5	28	9	-	12	14	20
47008206001	65	104-124	46	14	12	6	M6	5,1	24	25	3	13	41	13,5	-	24,5	8	31
47008211001	112	160-175	70	20	14	7	M8	7,5	34	30	2,5	17,5	60	9	13	35	13	37

470082 INOX ADJUSTABLE STAINLESS STEEL TOGGLE LATCH



INOX
Stainless
Steel



Adjustable toggle latch made of sheared stainless steel (Aisi 304). Natural finish.

The catch plate must be ordered separately from the toggle latch.

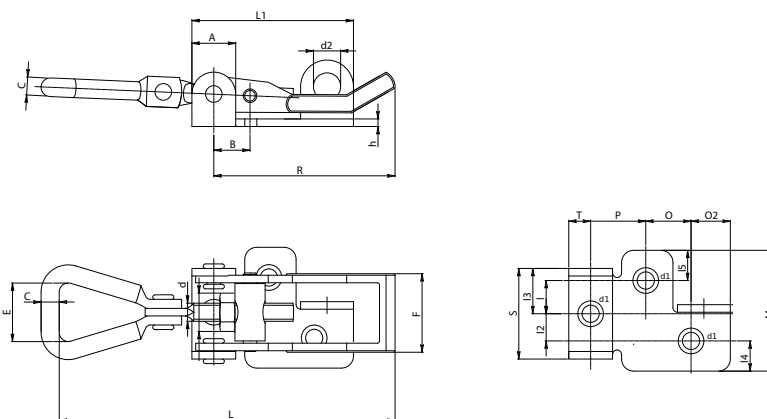
COMBINABLE CATCH PLATES:

Art. 47008204101 combinable with catch plates: 47008304101 y 47008304102.

Art. 47008206101 combinable with catch plates: 47008306101 y 47008306103.

Code	R	L	L1/N	A	B	C	d	d1	E	F	h	I	M	O	O2	P	T	S
47008204101	48	66-75	35	10	11	4,3	M5	5,5	18	17	2	7,5	28	9	-	12	14	20
47008206101	65	104-124	46	14	12	6	M6	5,1	24	25	3	13	41	13,5	-	24,5	8	31

470082P ADJUSTABLE STEEL TOGGLE LATCH WITH PADLOCK



Adjustable toggle latch made of shear steel with padlock hasp. Glossy finish.

The catch plate must be ordered separately from the toggle latch.

COMBINABLE CATCH PLATES:

Art. 47008204002 combinable with catch plates: 47008304001 y 47008304002.

Art. 47008206002 combinable with catch plates: 47008306001, 47008306002 y 47008306003.

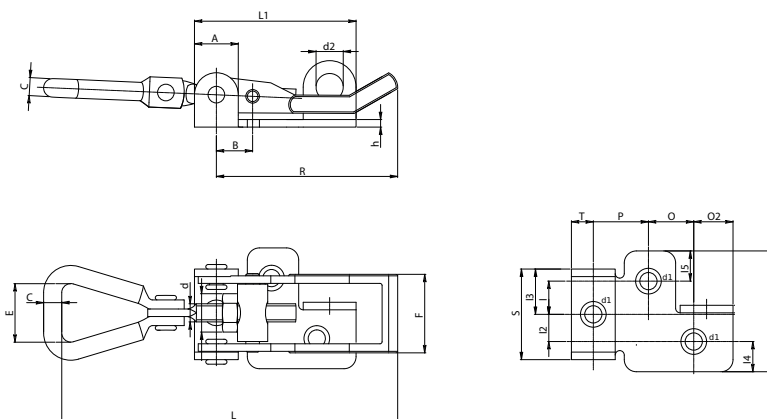
Art. 47008211002 combinable with catch plates: 47008306001, 47008306002 y 47008306003.

Code	R	L	L1	A	B	C	d	d1	d2	E	F	h	I	I2	I3	I4	I5	M	O	O2	P	T	S
47008204002	48	66-75	42,5	11	11	4,3	M5	5,3	7	17	17	2	7	7	10	6,5	6,5	27	11	9	11	11,5	20
47008206002	65	104-124	53	14	12	5	M5	5,3	9,5	25	26	2,5	10	10	15	10	10	40	15	12	18	8	30
47008211002	112	160-175	70	17	14	7	M6	7	9	31	30	3	17,5	16,5	19	13,5	12,5	60	22	13	22	13	38

470082P INOX ADJUSTABLE STAINLESS STEEL TOGGLE LATCH WITH PADLOCK



INOX
Stainless
Steel



Adjustable toggle latch made of shear stainless steel with padlock hasp (Aisi 304). Natural finish.

The catch plate must be ordered separately from the toggle latch.

COMBINABLE CATCH PLATES:

Art. 47008204102 combinable with catch plates: 47008304101 y 47008304102.

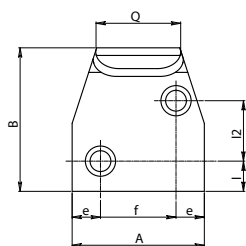
Art. 47008206102 combinable with catch plates: 47008306101 y 47008306103.

Art. 47008211102 combinable with catch plates: 47008306101 y 47008306103.

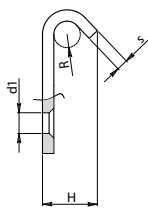
Code	R	L	L1	A	B	C	d	d1	d2	E	F	h	I	I2	I3	I4	I5	M	O	O2	P	T	S
47008204102	48	66-75	42,5	11	11	4,3	M5	5,3	7	17	17	2	7	7	10	6,5	6,5	27	11	9	11	11,5	20
47008206102	65	104-124	53	14	12	5	M5	5,3	9,5	25	26	2,5	10	10	15	10	10	40	15	12	18	8	30
47008211102	112	160-175	70	17	14	7	M6	7	9	31	30	3	17	10	19	13,5	12,5	60	22	13	22	13	38

470083**STAINLESS STEEL CATCH PLATE FOR ADJUSTABLE TOGGLE LATCH**

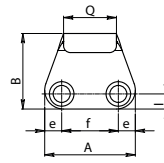
Code	H	I	I2	A	B	Q	e	f	R	d1	s
47008304001	10	5	-	26	21	14	5,5	15	2,5	5,1	2
47008306001	14,5	8,5	16	35	39	22	7,5	20	3,5	5,5	2



47008306001



47008304001



Drilled and sheared catch plate made of stainless steel (Aisi 304).
The toggle latch must be ordered separately from the catch plate.

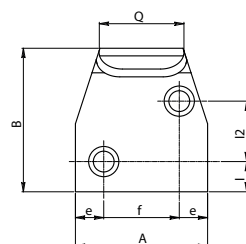
COMBINABLE CATCH PLATES:

Art. 47008304101 combinable with products: 47008204101 y 47008204102.

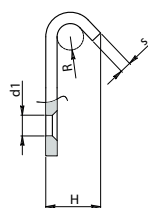
Art. 47008306101 combinable with products: 47008206101, 47008206102, 47008211101 y 47008211102.

**470083
INOX****STEEL CATCH PLATE FOR ADJUSTABLE TOGGLE LATCH****INOX**
Stainless
Steel

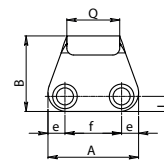
Code	H	I	I2	A	B	Q	e	f	R	d1	s
47008304101	10	5	-	26	21	14	5,5	15	2,5	5,1	2
47008306101	14,5	8,5	16	35	38,5	22	7,5	20	3,5	5,5	2



47008306101



47008304101



Drilled and sheared catch plate made of stainless steel (Aisi 304).
The toggle latch must be ordered separately from the catch plate.

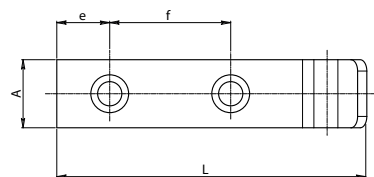
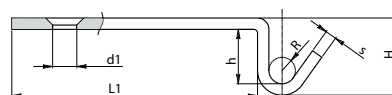
COMBINABLE CATCH PLATES:

Art. 47008304101 combinable with products: 47008204101 y 47008204102.

Art. 47008306101 combinable with products: 47008206101, 47008206102, 47008211101 y 47008211102.

470083B**STEEL CATCH PLATE FOR ADJUSTABLE TOGGLE LATCH**

Code	H	L	L1	h	A	e	f	R	d1	s
47008304002	9	40	29	5	16	7	14	2,5	5,1	2
47008306002	21	82	65	16	18	14	32	3,5	6,5	3



Drilled and sheared catch plate made of steel.
The toggle latch must be ordered separately from the catch plate.

COMBINABLE CATCH PLATES:

Art. 47008304002 combinable with products: 47008204001 y 47008204002.

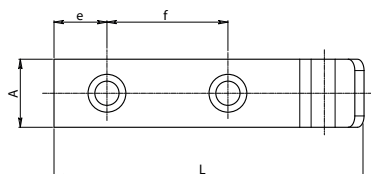
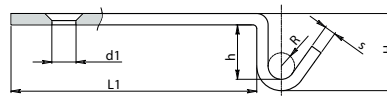
Art. 47008306002 combinable with products: 47008206001, 47008206002, 47008211001 y 47008211002.

470083B INOX STAINLESS STEEL CATCH PLATE FOR ADJUSTABLE TOGGLE LATCH



INOX
Stainless
Steel

Code	H	L	L1	h	A	e	f	R	d1	s
47008304102	9	40	29	5	16	7	14	2,5	5,1	2

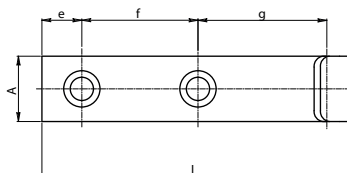
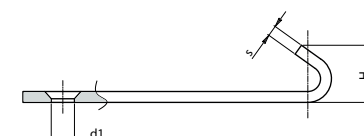


Drilled and sheared catch plate made of stainless steel.
The toggle latch must be ordered separately from the catch plate.
COMBINABLE CATCH PLATES:
Art. 47008304102 combinable with products: 47008204101 - 47008204102

470083X EXTENDED STEEL CATCH PLATE FOR ADJUSTABLE TOGGLE LATCH



Code	H	L	A	e	f	g	d1	s
47008306003	16,5	85	18	13,5	29	32,5	7	3



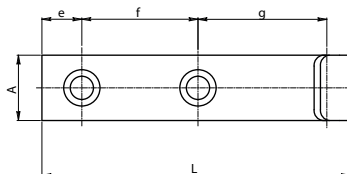
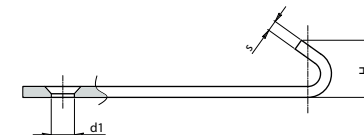
Extended drilled catch plate made of sheared steel.
The toggle latch must be ordered separately from the catch plate.
COMBINABLE CATCH PLATES:
Art. 47008306003 combinable with products: 47008206001 - 47008206002 - 47008211001 - 47008211002.

470083X INOX EXTENDED STAINLESS STEEL CATCH PLATE FOR ADJUSTABLE TOGGLE LATCH



INOX
Stainless
Steel

Code	H	L	A	e	f	g	d1	s
47008306103	16,5	85	18	13,5	29	32,5	7	3



Extended drilled catch plate made of sheared stainless steel (Aisi 304).
The toggle latch must be ordered separately from the catch plate.
COMBINABLE CATCH PLATES:
Art. 47008306103 combinable with products: 47008206101 - 47008206102 - 47008211101 - 47008211102.

41007001451
23MM TOGGLE LATCH


Material: Z Zinc plated steel
The supply includes the toggle latch with the strike.

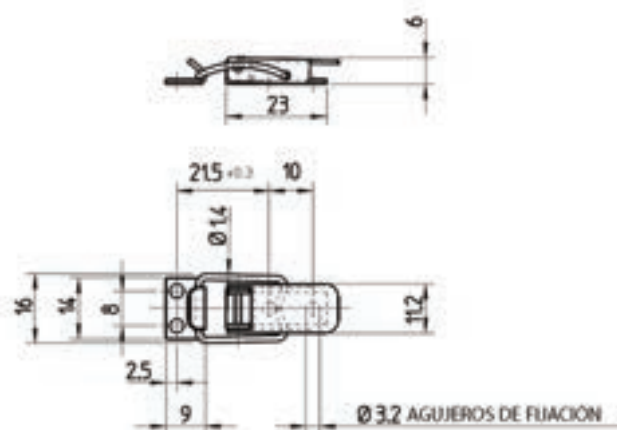
Code	Material	Max dynamic load(daN)	Max tension load(daN)
------	----------	-----------------------	-----------------------

41007001451

Z

15

30


4100700104
34MM TOGGLE LATCH


Material: Z Zinc plated steel
X Stainless steel.
The supply includes the toggle latch with the strike.

Code	Material	Max dynamic load(daN)	Max tension load(daN)
------	----------	-----------------------	-----------------------

41007001041

Z

55

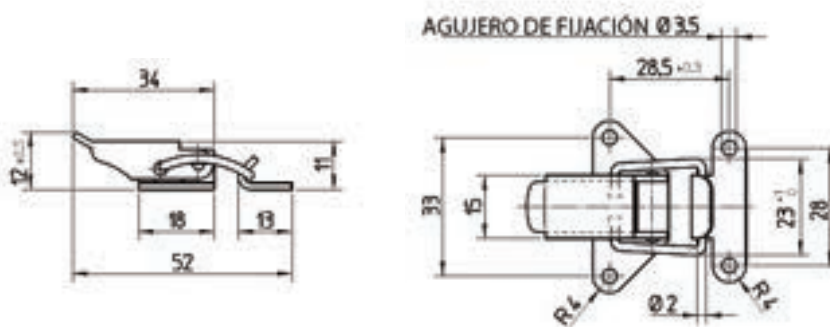
150

41007001042

X

55

150


41007003041
34MM HASP TOGGLE LATCH


Material: Z Zinc plated steel
The supply includes the toggle latch with the strike.

Code	Material	Max dynamic load(daN)	Max tension load(daN)
------	----------	-----------------------	-----------------------

41007003041

Z

55

150



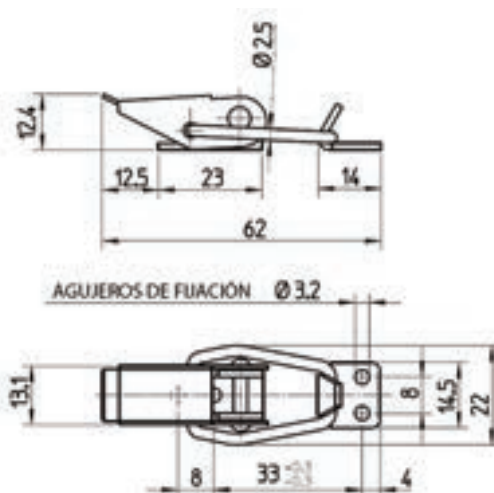
41007001171

35MM TOGGLE LATCH



Material: Z Zinc plated steel
The supply includes the toggle latch with the strike.

Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007001171	Z	40	100



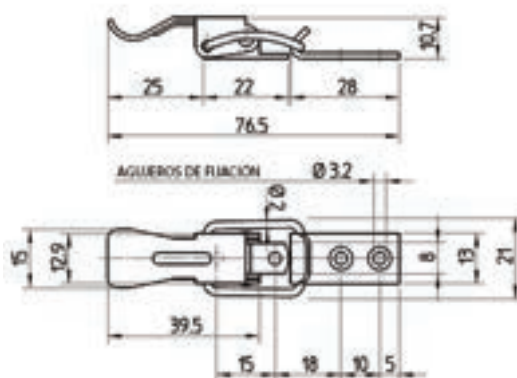
4100700102

47MM TOGGLE LATCH



Material: Z Zinc plated steel
The supply includes the toggle latch with the strike.

Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007001021	Z	40	100
41007001022	X	40	100



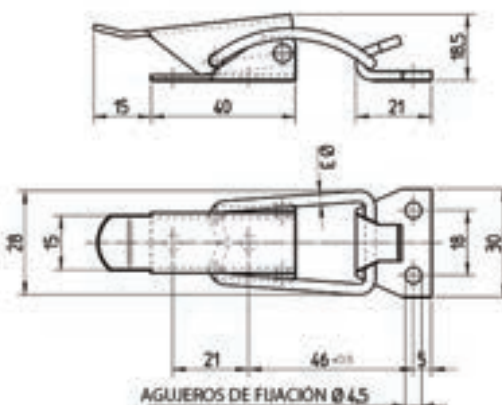
41007001521

55MM TOGGLE LATCH



Material: Z Zinc plated steel
The supply includes the toggle latch with the strike.

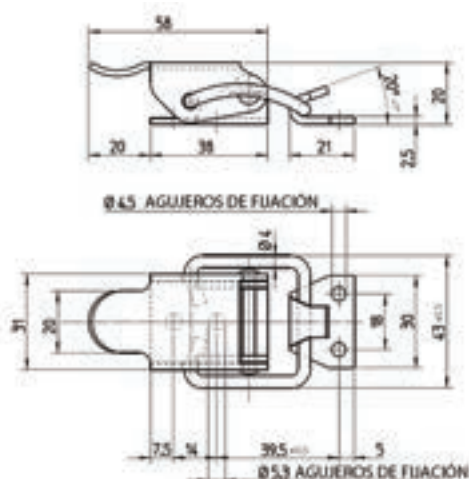
Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007001521	Z	100	250



41007001101
58MM TOGGLE LATCH

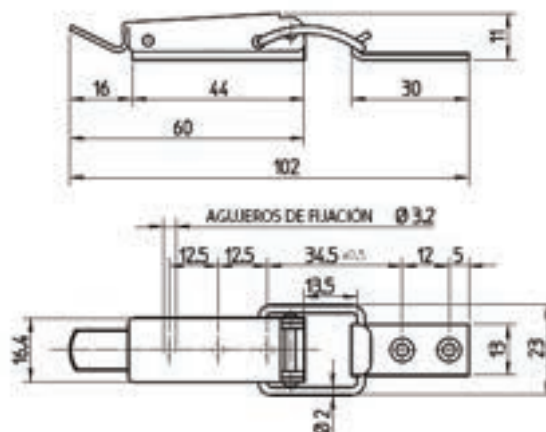

Material: Z Zinc plated steel
The supply includes the toggle latch with the strike.

Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007001101	Z	150	300


4100700103
60MM TOGGLE LATCH

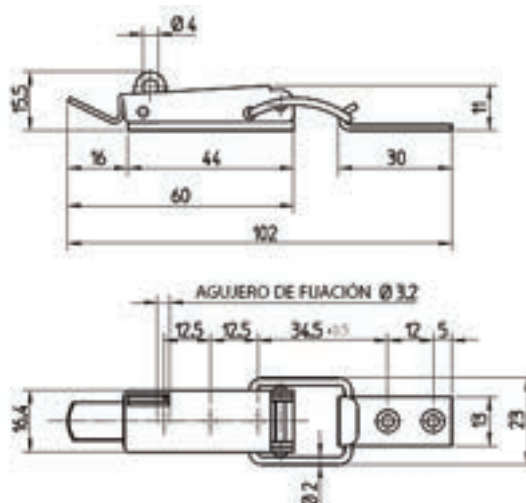

Material: Z Zinc plated steel
X Stainless steel.
The supply includes the toggle latch with the strike.

Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007001031	Z	55	130
41007001032	X	55	130


4100700303
23MM HASP TOGGLE LATCH


Material: Z Zinc plated steel
X Stainless steel.
The supply includes the toggle latch with the strike.

Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007003031	Z	55	130
41007003032	X	55	20



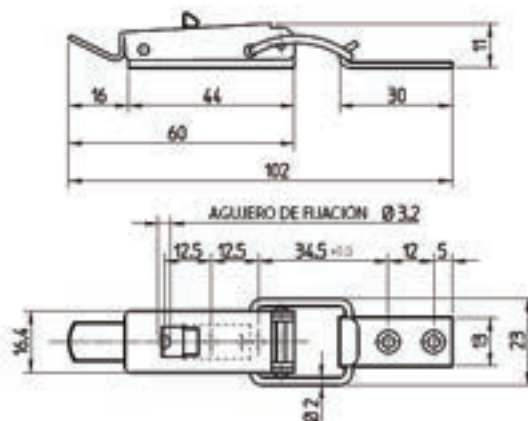
4100700403
60MM TOGGLE LATCH WITH SECONDARY LOCK


Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007004031	Z	55	130
41007004032	X	55	20

Material: Z Zinc plated steel

X Stainless steel.

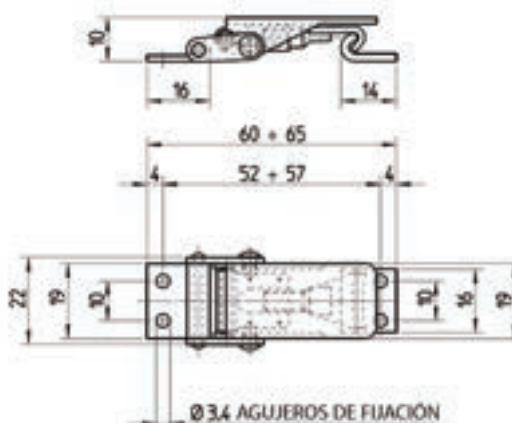
The supply includes the toggle latch with the strike.


41007001461
60-65MM ADJUSTABLE TOGGLE LATCH


Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007001461	Z	75	150

Material: Z Zinc plated steel

The supply includes the toggle latch with the strike.

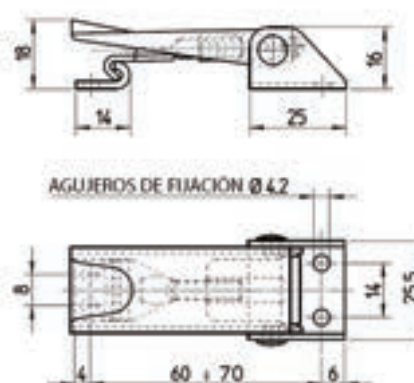

4100700141
60-70MM TOGGLE LATCH


Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007001411	Z	100	140
41007001412	X	100	140

Material: Z Zinc plated steel

X Stainless steel.

The supply includes the toggle latch with the strike.



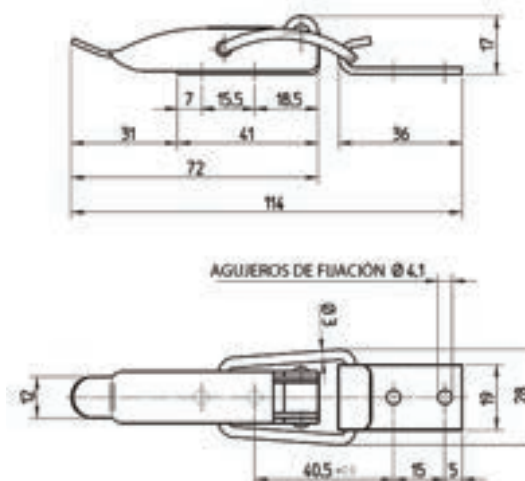
4100700106
72MM TOGGLE LATCH


Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007001061	Z	100	250
41007001062	X	100	250

Material: Z Zinc plated steel

X Stainless steel.

The supply includes the toggle latch with the strike.

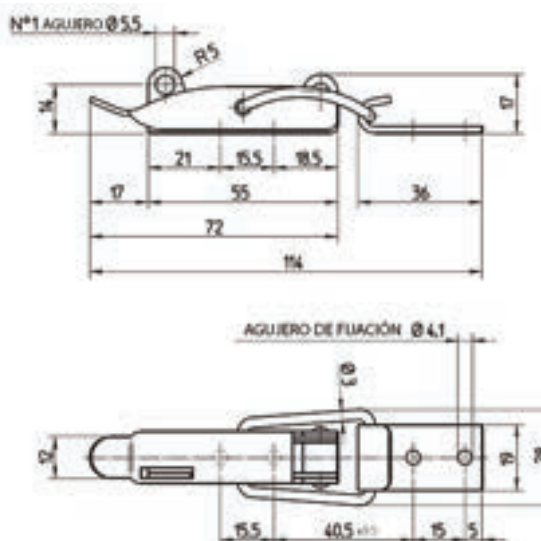

4100700306
72MM HASP TOGGLE LATCH


Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007003061	Z	100	250
41007003062	X	100	250

Material: Z Zinc plated steel

X Stainless steel.

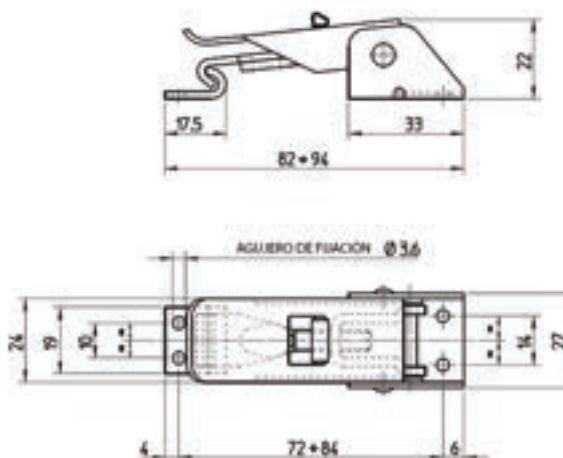
The supply includes the toggle latch with the strike.


41007001301
72-84MM ADJUSTABLE TOGGLE LATCH


Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007001301	Z	100	200

Material: Z Zinc plated steel

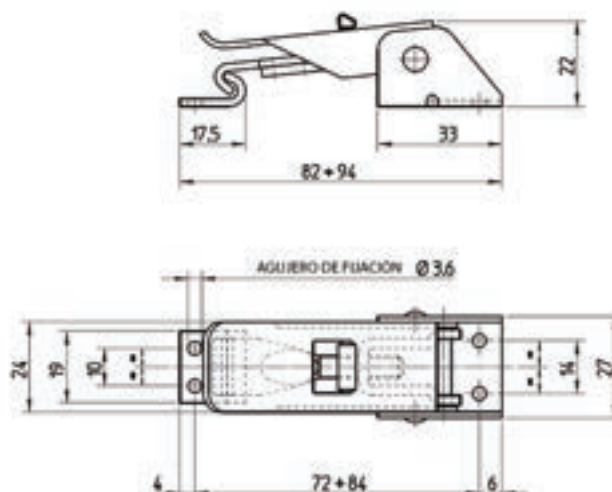
The supply includes the toggle latch with the strike.



41007004301**72-84MM ADJUSTABLE TOGGLE LATCH WITH SECONDARY LOCK**

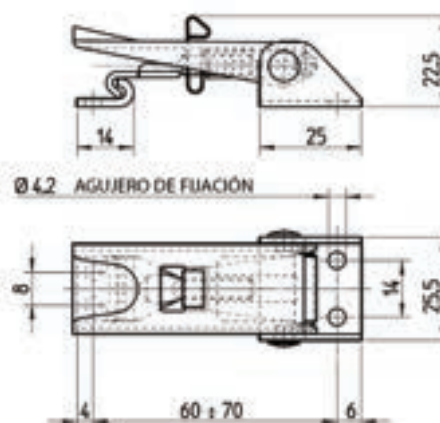
Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007004301	Z	100	200

Material: Z Zinc plated steel
The supply includes the toggle latch with the strike.

**4100700441****80MM TOGGLE LATCH WITH SECONDARY LOCK**

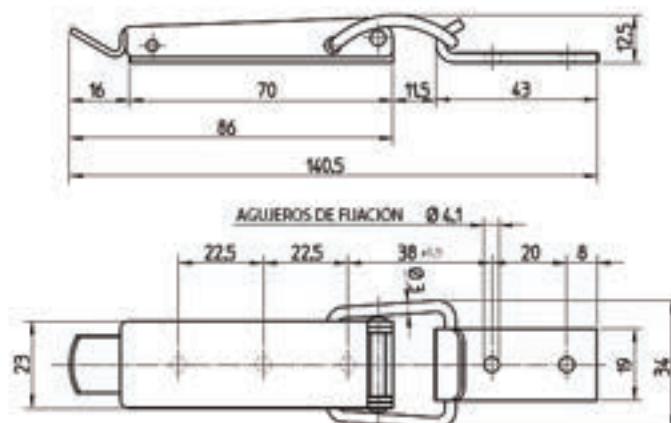
Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007004411	Z	100	140
41007004412	X	100	140

Material: Z Zinc plated steel
X Stainless steel.
The supply includes the toggle latch with the strike.

**4100700101****86MM TOGGLE LATCH**

Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007001011	Z	150	300
41007001012	X	150	300

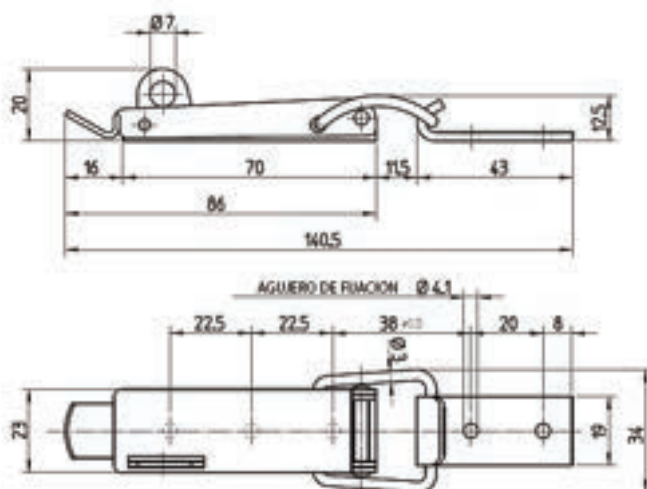
Material: Z Zinc plated steel
X Stainless steel.
The supply includes the toggle latch with the strike.



4100700301**86MM HASP TOGGLE LATCH**

Material: Z Zinc plated steel
X Stainless steel.
The supply includes the toggle latch with the strike.

Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007003011	Z	150	300
41007003012	X	150	300

**4100700118****88MM ADJUSTABLE TOGGLE LATCH**

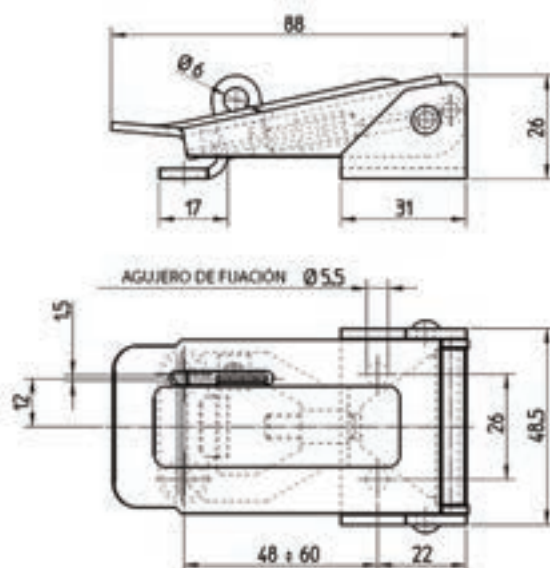
Material: Z Zinc plated steel
X Stainless steel.
The supply includes the toggle latch with the strike.

Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007001181	Z	150	300
41007001182	X	150	300

**41007003181****88MM ADJUSTABLE HASP TOGGLE LATCH**

Material: Z Zinc plated steel
The supply includes the toggle latch with the strike.

Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007003181	Z	150	300



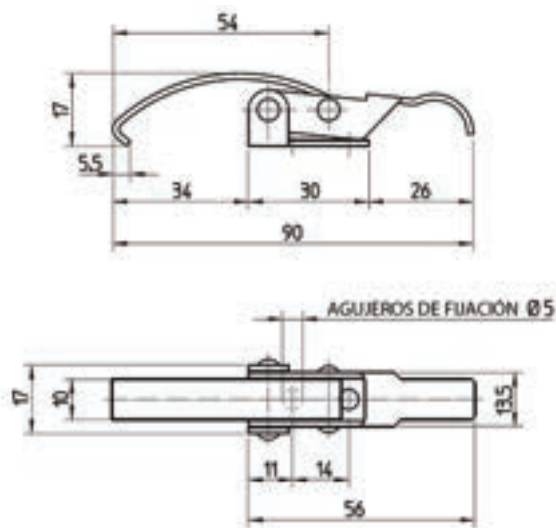
4100700108
90MM CLAW LINK TOGGLE LATCH


Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007001081	Z	50	90
41007001082	X	50	90

Material: Z Zinc plated steel

X Stainless steel.

The supply includes the toggle latch with the strike.

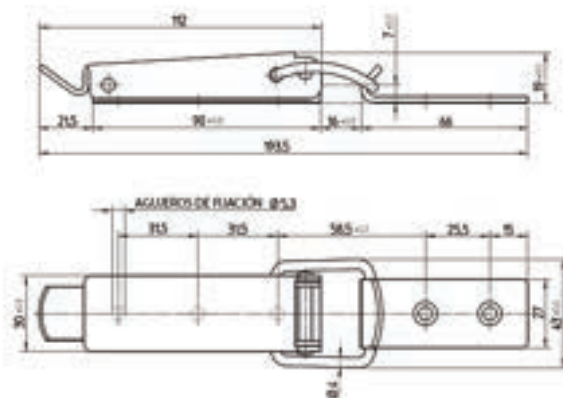

4100700100
112MM TOGGLE LATCH


Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007001001	Z	200	400
41007001002	X	200	400

Material: Z Zinc plated steel

X Stainless steel.

The supply includes the toggle latch with the strike.

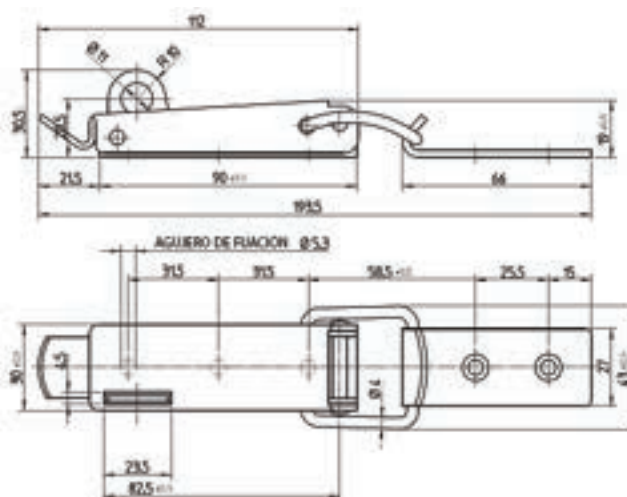

4100700300
112MM HASP TOGGLE LATCH


Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007003001	Z	200	400
41007003002	X	200	400

Material: Z Zinc plated steel

X Stainless steel.

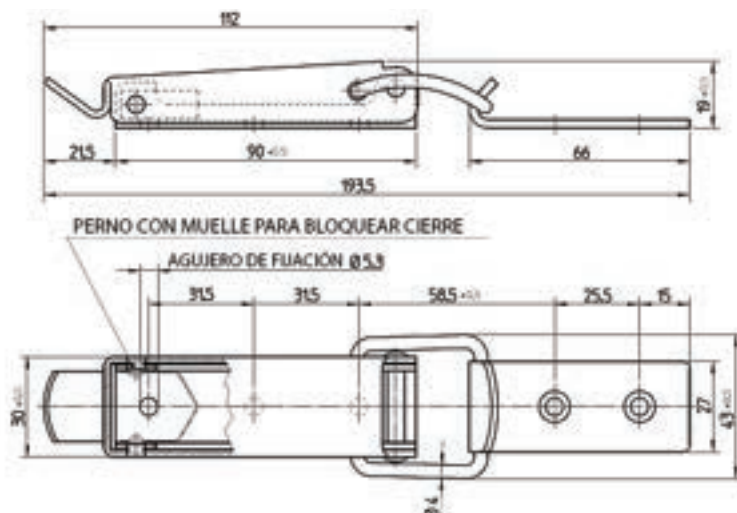
The supply includes the toggle latch with the strike.



41007002001
112MM CLICK-ARREST TOGGLE LATCH

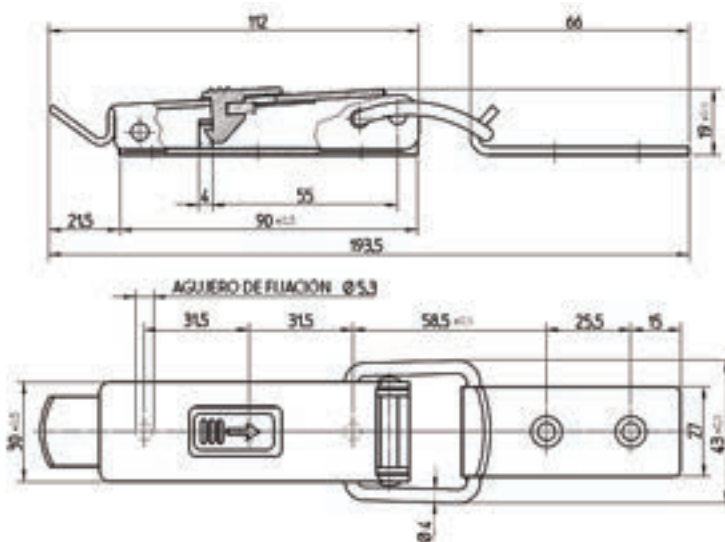

Material: Z Zinc plated steel
The supply includes the toggle latch with the strike.

Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007002001	Z	200	400


4100700400
112MM TOGGLE LATCH WITH SECONDARY LOCK

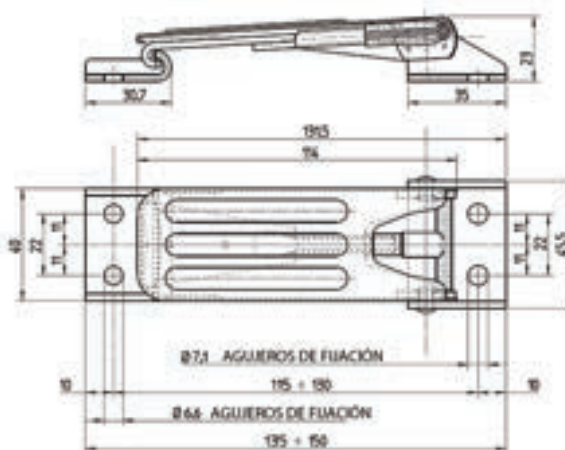

Material: Z Zinc plated steel
X Stainless steel.
The supply includes the toggle latch with the strike.

Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007004001	Z	200	400
41007004002	X	200	400


41007001401
115-130MM ADJUSTABLE TOGGLE LATCH


Material: Z Zinc plated steel
The supply includes the toggle latch with the strike.

Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007001401	Z	200	400

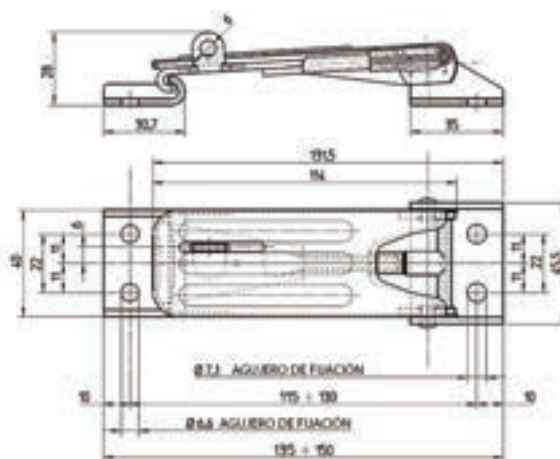


115-130MM ADJUSTABLE HASP TOGGLE LATCH



Material: Z Zinc plated steel
The supply includes the toggle latch with the strike.

Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007003401	Z	200	400

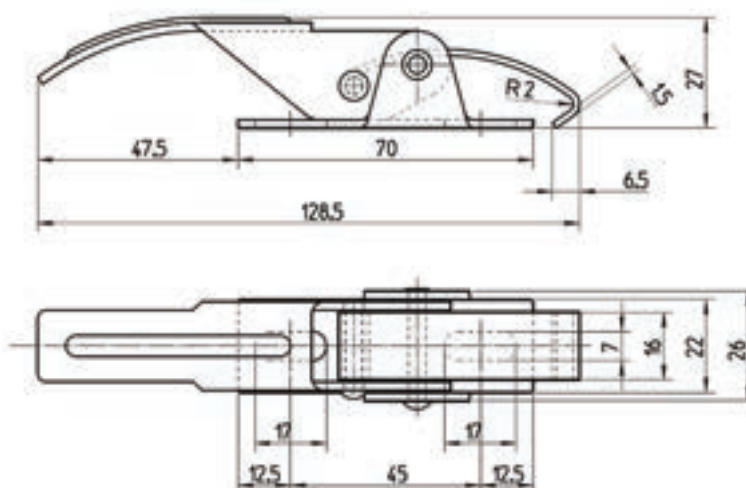


128,5MM STEEL LINK TOGGLE LATCH



Material: Z Zinc plated steel
The supply includes the toggle latch with the strike.

Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007001191	Z	75	150

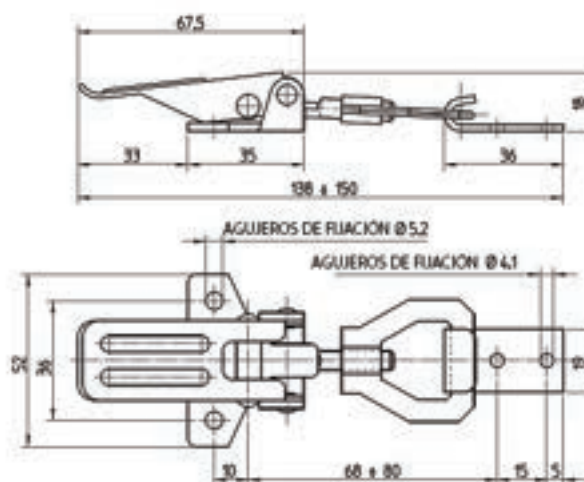


ADJUSTABLE TOGGLE LATCH



Material: Z Zinc plated steel
X Stainless steel.
The supply includes the toggle latch with the strike.

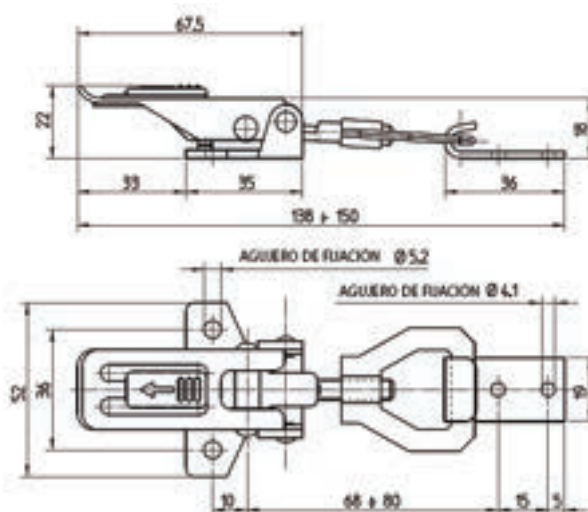
Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007001051	Z	110	250
41007001052	X	110	250



4100700405
ADJUSTABLE TOGGLE LATCH WITH SECONDARY LOCK

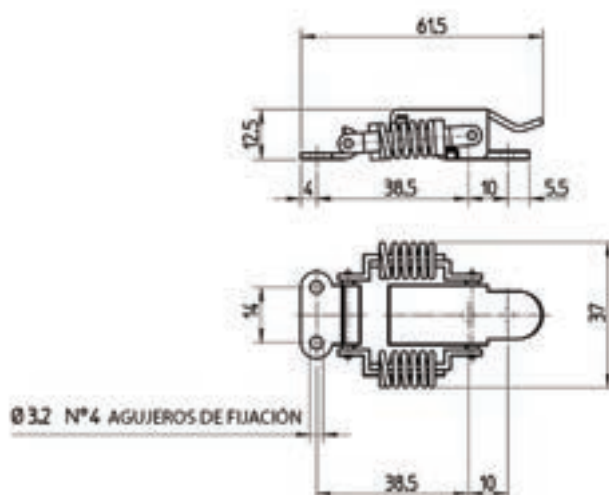

Material: Z Zinc plated steel
X Stainless steel.
The supply includes the toggle latch with the strike.

Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007004051	Z	110	250
41007004052	X	110	250

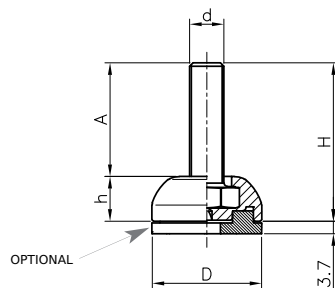

4100700142
TOGGLE LATCH WITH TENSION SPRING


Material: Z Zinc plated steel
X Stainless steel.
The supply includes the toggle latch with the strike.

Code	Material	Max dynamic load(daN)	Max tension load(daN)
41007001421	Z	50	150
41007001422	X	50	150



110088 FIXED FEET WITH THREADED STUD



PA black reinforced polyamide.

Treated steel stud.

Mounting with cross screwdriver on the base

*Max. static load.

Available in other colors. Ask.

Code	D	H	h	d	A	Kg*	Color
11008832520	32	38	13	M5	25	500	Black
11008832512	32	43	13	M6	30	700	Black
11008832533	32	39	13	M8	26	800	Black
11008832534	32	36	13	M10	23	800	Black
11008840520	40	38	13	M5	25	500	Black
11008840540	40	43	13	M6	30	700	Black
11008840533	40	49	13	M8	36	800	Black
11008840534	40	46	13	M10	33	800	Black

Locknut available.



Optional: Non-skid rubber pad.

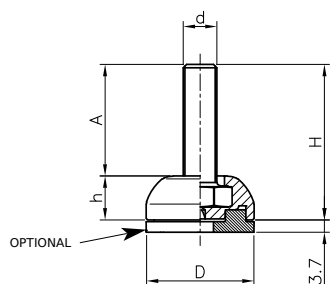
Supplied not mounted:

Ø 32mm Code 11008800903

Ø 40mm Code 11008800904

If you want the feet with the rubber mounted, please ask.

110088 FIXED FEET WITH THREADED STAINLESS STEEL STUD



PA black reinforced polyamide.

Stainless steel stud AISI 304.

Mounting with cross screwdriver on the base

*Max. static load.

Available in other colors. Ask.

Code	D	H	h	d	A	Kg*	Color
11008832553	32	43	13	M6	30	700	Black
11008832550	32	39	13	M8	26	800	Black
11008832551	32	36	13	M10	23	800	Black
11008840552	40	43	13	M6	30	700	Black
11008840550	40	49	13	M8	36	800	Black
11008840551	40	46	13	M10	33	800	Black

Locknut available.



Optional: Non-skid rubber pad.

Supplied not mounted:

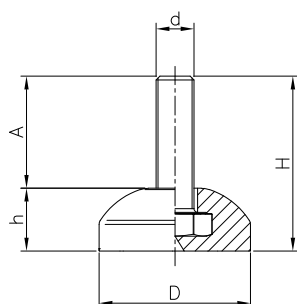
Ø 32mm Code 11008800903

Ø 40mm Code 11008800904

If you want the feet with the rubber mounted, please ask.



110088 FIXED RUBBER FEET



TPE rubber shore A.

Treated threaded steel stud.

*Max. static load.

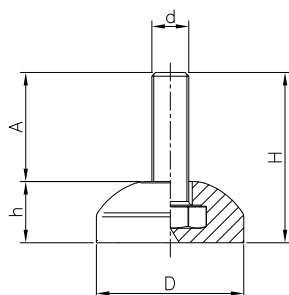
Code	D	H	h	d	A	Kg*	Color
11008832570	32	42	16	M8	24	300	Black
11008832571	32	36	16	M10	20	400	Black
11008840570	40	52	16	M8	34	300	Black
11008840571	40	46	16	M10	30	400	Black

Locknut available.

110088 FIXED RUBBER FEET WITH STAINLESS STEEL STUD



INOX
Stainless
Steel



Code	D	H	h	d	A	Kg*	Color
11008832580	32	42	16	M8	24	300	Black
11008832581	32	36	16	M10	20	400	Black
11008840580	40	52	16	M8	34	300	Black
11008840581	40	46	16	M10	30	400	Black

Locknut available.

TPE rubber shore A.
Stainless steel stud AISI 304.
*Max. static load.

110089 ADJUSTABLE FEET WITH THREADED STUD

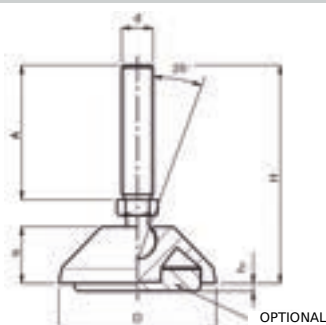


Image of the model with a
base of 80.
PA black reinforced polyamide.
Treated steel stud.
*Max. static load (vertical stud).



Optional: Non-skid rubber pad.
Supplied not mounted:
Ø 32mm Code 11008800903
Ø 40mm Code 11008800904
Ø 50mm Code 11008900905 (NBR70 Shore A)
Ø 80mm Code 11008900907 (NBR70 Shore A)
If you want the feet with the rubber mounted,
please ask.

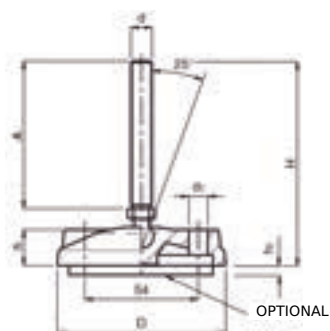


Available in orange colour RAL
2004 and blue colour RAL 5005.
Other colours, ask.

Code	D	H	h	d	A	h2	Kg*	Color
11008903851	32	67	13	M8	45	2	1000	Black
11008903852	32	92	13	M8	70	2	1000	Black
11008903853	32	67	13	M10	45	2	1000	Black
11008903854	32	92	13	M10	70	2	1000	Black
11008904851	40	67	13	M8	45	3	1000	Black
11008904852	40	92	13	M8	70	3	1000	Black
11008904853	40	67	13	M10	45	3	1000	Black
11008904854	40	92	13	M10	70	3	1000	Black
11008905856	50	72	18	M8	45	2	1000	Black
11008905857	50	97	18	M8	70	2	1000	Black
11008905851	50	72	18	M10	45	2	1000	Black
11008905852	50	97	18	M10	70	2	1000	Black
11008905853	50	72	18	M12	45	2	1000	Black
11008905854	50	97	18	M12	70	2	1000	Black
11008908861	80	73	19	M8	45	2	1000	Black
11008908862	80	98	19	M8	70	2	1000	Black
11008908853	80	73	19	M10	45	2	1000	Black
11008908854	80	98	19	M10	70	2	1000	Black
11008908851	80	73	19	M12	45	2	1000	Black
11008908852	80	98	19	M12	70	2	1000	Black
11008908863	80	98	19	M14	70	2	1000	Black
11008908864	80	148	19	M14	120	2	1000	Black
11008908855	80	98	19	M16	70	2	1000	Black
11008908856	80	148	19	M16	120	2	1000	Black
11008908857	80	128	19	M20	100	2	1000	Black

Locknut available.

110090 ADJUSTABLE FEET WITH THREADED STUD & THROUGH HOLES



PA black reinforced polyamide.
Treated steel stud.
Other colors, ask.
*Max. static load (vertical stud).

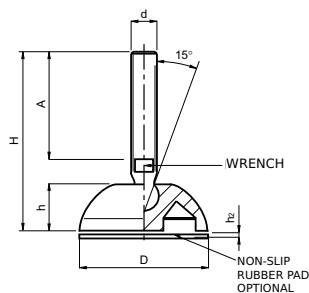


Optional: Non-skid rubber pad.
Supplied not mounted:
Ø 80 mm Code 11009000908 (NBR70 Shore A)
If you want the feet with the rubber mounted,
please ask.

Code	D	H	h	d	A	h2	d2	Kg*	Color
11009008858	80	73	19	M8	45	2	9	1000	Black
11009008859	80	98	19	M8	70	2	9	1000	Black
11009008853	80	73	19	M10	45	2	9	1000	Black
11009008854	80	98	19	M10	70	2	9	1000	Black
11009008851	80	73	19	M12	45	2	9	1000	Black
11009008852	80	98	19	M12	70	2	9	1000	Black
11009008860	80	98	19	M14	70	2	9	1000	Black
11009008861	80	148	19	M14	120	2	9	1000	Black
11009008855	80	98	19	M16	70	2	9	1000	Black
11009008856	80	148	19	M16	120	2	9	1000	Black
11009008857	80	128	19	M20	100	2	9	1000	Black

Locknut available.

420001 ADJUSTABLE FEET 40/50 WITH THREADED STAINLESS STEEL STUD



PA black reinforced polyamide.
Stainless steel stud AISI-304.
*Max. static load (vertical stud).
For other stud sizes, ask.



Code	D	h	d	A	H	Wrench	h2	Kg*	Color
42000104550	40	13	M8	45	68	6	2,5	1000	Black
42000104551	40	13	M8	65	88	6	2,5	1000	Black
42000104552	40	13	M10	35	60	8	2,5	1100	Black
42000104553	40	13	M10	70	95	8	2,5	1100	Black
42000105550	50	13	M8	45	68	6	2,5	1100	Black
42000105551	50	13	M8	65	88	6	2,5	1100	Black
42000105552	50	13	M10	35	60	8	2,5	1200	Black
42000105553	50	13	M10	70	95	8	2,5	1200	Black
42000105554	50	13	M12	43	70	10	2,5	1300	Black
42000105555	50	13	M12	63	90	10	2,5	1300	Black

Locknut available.

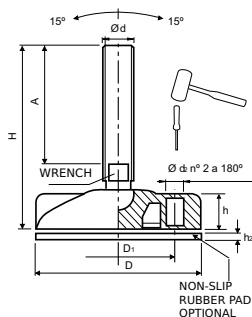
Optional: PVC non-slip rubber pad.

Supplied not mounted.

Ø 40 mm Code: 42005001040.

Ø 50 mm Code: 42005001050.

420001 ADJUSTABLE FEET 102/124 WITH THREADED STUD



PA black reinforced polyamide.
Treated steel stud.
Locknut available.

*Max. static load (vertical stud).
Holes can be opened with the help of a hammer
for fixing the foot to the floor.
Other studs lengths, please ask.

Code	D	D1	h	d	A	H	d2	Wrench	h2	Kg*
42000110530	102	74	20,3	M16	90	130	10,5	13	3	2200
42000110531	102	74	20,3	M16	125	165	10,5	13	3	2200
42000110532	102	74	20,3	M16	165	205	10,5	13	3	2200
42000110533	102	74	20,3	M20	116	160	10,5	17	3	2400
42000110534	102	74	20,3	M20	198	242	10,5	17	3	2400
42000112530	124	94	24,3	M16	90	134	10,5	13	3	2500
42000112531	124	94	24,3	M16	125	169	10,5	13	3	2500
42000112532	124	94	24,3	M16	165	209	10,5	13	3	2500
42000112533	124	94	24,3	M20	116	164	10,5	17	3	2700
42000112534	124	94	24,3	M20	198	246	10,5	17	3	2700

Locknut available.

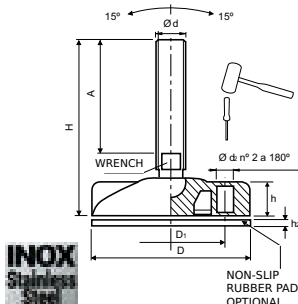
Optional: PVC non-slip rubber pad.

Supplied not mounted.

Ø 102 mm Code: 42005001100.

Ø 124 mm Code: 42005001120.

420001 ADJUSTABLE FEET 80/102/124 WITH THREADED STAINLESS STEEL STUD



PA black reinforced polyamide.
Stainless steel stud AISI-304.

*Max. static load (vertical stud).
Holes can be opened with the help of a hammer
for fixing the foot to the floor.
Other studs lengths, please ask.

Code	D	D1	h	d	A	H	d2	Wrench	h2	Kg*
42000108550	80	54	17,3	M8	45	74	9	6	3	1200
42000108551	80	54	17,3	M8	65	94	9	6	3	1200
42000108552	80	54	17,3	M10	35	66	9	8	3	1400
42000108553	80	54	17,3	M10	70	101	9	8	3	1400
42000108554	80	54	17,3	M12	43	76	9	10	3	1500
42000108555	80	54	17,3	M12	77	111	9	10	3	1500
42000108556	80	54	17,3	M16	60	97	9	13	3	1900
42000108557	80	54	17,3	M16	125	162	9	13	3	1900
42000108558	80	54	17,3	M20	116	157	9	17	3	2100
42000110550	102	74	20,3	M16	90	130	10,5	13	3	2200
42000110551	102	74	20,3	M16	125	165	10,5	13	3	2200
42000110552	102	74	20,3	M16	165	205	10,5	13	3	2200
42000110553	102	74	20,3	M20	116	160	10,5	17	3	2400
42000110554	102	74	20,3	M20	198	242	10,5	17	3	2400
42000112550	124	94	24,3	M16	90	134	10,5	13	3	2500
42000112551	124	94	24,3	M16	125	169	10,5	13	3	2500
42000112552	124	94	24,3	M16	165	209	10,5	13	3	2500
42000112553	124	94	24,3	M20	116	164	10,5	17	3	2700
42000112554	124	94	24,3	M20	198	246	10,5	17	3	2700

Locknut available.

Optional: PVC non-slip rubber pad.

Supplied not mounted.

Ø 80 mm Code: 42005001080.

Ø 102 mm Code: 42005001100.

Ø 124 mm Code: 42005001120.



Available in blue color RAL 5005 for Ø80.

420001HT ADJUSTABLE FEET 122 WITH THREADED STUD



PA black reinforced polyamide.
Treated steel stud.

*Max. static load (vertical stud).

Holes can be opened with the help of a hammer for
fixing the foot to the floor.

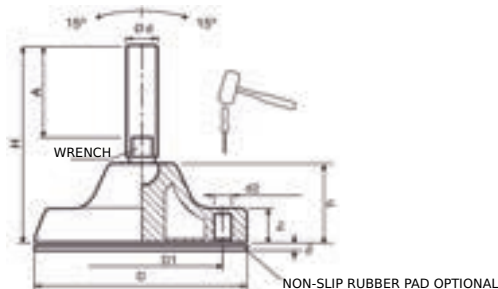
Other studs lengths, please ask.

Optional: Non-slip rubber pad.

Supplied not mounted. Code 42005002120.

Code	D	h	h1	d	A	H	D1	d2	Wrench	h2	Kg*	Color
42000112502	122	41	20	M16	90	148	90	11	13	5	2500	Black
42000112504	122	41	20	M16	125	183	90	11	13	5	2500	Black
42000112506	122	41	20	M16	165	223	90	11	13	5	2500	Black
42000112507	122	41	20	M20	86	147	90	11	17	5	2700	Black
42000112509	122	41	20	M20	141	202	90	11	17	5	2700	Black
42000112511	122	41	20	M24	96	157	90	11	19	5	2900	Black
42000112513	122	41	20	M24	152	213	90	11	19	5	2900	Black
42000112514	122	41	20	M24	182	243	90	11	19	5	2900	Black

Locknut available.



420001HT ADJUSTABLE FEET 122 WITH THREADED STAINLESS STEEL STUD



PA black reinforced polyamide.
Stainless steel stud AISI-304.

*Max. static load (vertical stud).

Holes can be opened with the help of a hammer for
fixing the foot to the floor.

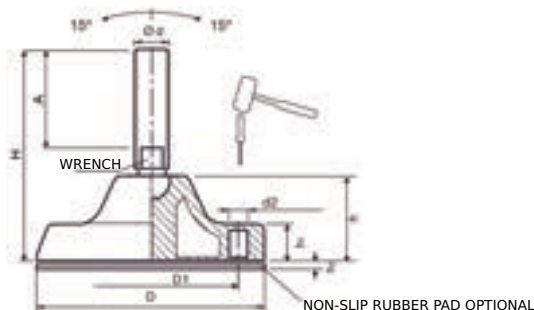
Other studs lengths, please ask.

Optional: Non-slip rubber pad.

Supplied not mounted. Code 42005002120.

Code	D	h	h1	d	A	H	D1	d2	Wrench	h2	Kg*	Color
42000112571	122	41	20	M16	90	148	90	11	13	5	2500	Black
42000112572	122	41	20	M16	125	183	90	11	13	5	2500	Black
42000112575	122	41	20	M16	165	223	90	11	13	5	2500	Black
42000112576	122	41	20	M20	86	147	90	11	17	5	2700	Black
42000112578	122	41	20	M20	141	202	90	11	17	5	2700	Black
42000112580	122	41	20	M24	96	157	90	11	19	5	2900	Black
42000112582	122	41	20	M24	152	213	90	11	19	5	2900	Black
42000112583	122	41	20	M24	182	243	90	11	19	5	2900	Black

Locknut available.



INOX
Stainless
Steel

420002 ADJUSTABLE FEET 102 FOR HEAVY LOADS WITH THREADED STUD



PA black reinforced polyamide.
Treated steel stud.

*Max. static load (vertical stud).

Holes can be opened with the help of a hammer for
fixing the foot to the floor.

Other studs lengths, please ask.

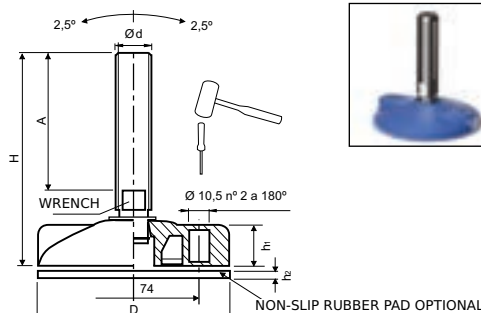
Optional: Black PVC non-slip rubber pad.

Supplied not mounted.

Ø 102 mm Code: 42005001100.

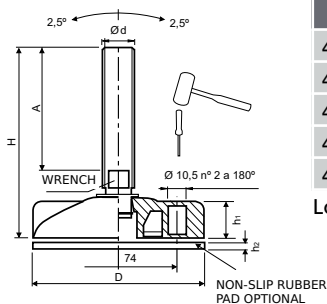
Code	D	h1	d	A	H	Wrench	h2	Kg*	Color
42000210530	102	20,3	M16	119	159	13	3	3300	Black
42000210531	102	20,3	M16	201	241	13	3	3300	Black
42000210532	102	20,3	M20	107	150	17	3	3500	Black
42000210533	102	20,3	M20	157	200	17	3	3500	Black
42000210534	102	20,3	M24	162	208	19	3	3700	Black

Locknut available.



Available in blue color RAL 5005.

420002 ADJUSTABLE FEET 102 FOR HEAVY LOADS WITH THREADED STAINLESS STEEL STUD



Code	D	h1	d	A	H	Wrench	h2	Kg*	Color
42000210550	102	20,3	M16	119	159	13	3	3300	Black
42000210551	102	20,3	M16	201	241	13	3	3300	Black
42000210552	102	20,3	M20	107	150	17	3	3500	Black
42000210553	102	20,3	M20	157	200	17	3	3500	Black
42000210554	102	20,3	M24	162	208	19	3	3700	Black

Locknut available.



Available in blue color RAL 5005.

PA black reinforced polyamide.

Stainless steel stud AISI-304.

*Max. static load (vertical stud).

Holes can be opened with the help of a hammer for fixing the foot to the floor.

Other studs lengths, please ask.

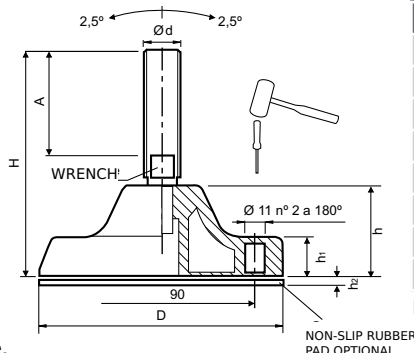
Optional: Black PVC non-slip rubber pad.

Supplied not mounted.

Ø 102 mm Code: 42005001100.



420002 ADJUSTABLE FEET 122 FOR HEAVY LOADS WITH THREADED STUD



Code	D	h	h1	d	A	H	Wrench	h2	Kg*
42000212530	122	41	20	M16	119	180	13	5	4300
42000212531	122	41	20	M16	201	262	13	5	4300
42000212532	122	41	20	M20	107	171	17	5	4500
42000212533	122	41	20	M20	157	221	17	5	4500
42000212539	122	41	20	M24	90	157	19	5	4700
42000212534	122	41	20	M24	162	229	19	5	4700
42000212541	122	41	20	M30	125	188	24	5	5000
42000212542	122	41	20	M30	185	252	24	5	5000

Locknut available.



Available in blue color RAL 5005.

PA black reinforced polyamide.

Treated steel stud.

*Max. static load (vertical stud).

Holes can be opened with the help of a hammer for fixing the foot to the floor.

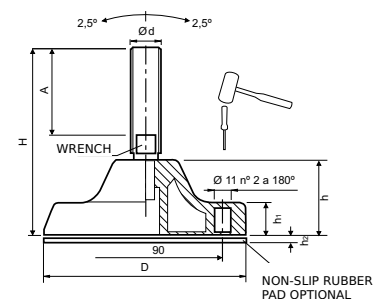
Other studs lengths, please ask.

Optional: Black PVC non-slip rubber pad.

Supplied not mounted.

Code: 42005002120.

420002 ADJUSTABLE FEET 122 FOR HEAVY LOADS WITH THREADED STAINLESS STEEL STUD



Code	D	h	h1	d	A	H	Wrench	h2	Kg*
42000212550	122	41	20	M16	119	180	13	5	4300
42000212551	122	41	20	M16	201	262	13	5	4300
42000212552	122	41	20	M20	107	171	17	5	4500
42000212553	122	41	20	M20	157	221	17	5	4500
42000212559	122	41	20	M24	90	157	19	5	4700
42000212554	122	41	20	M24	162	229	19	5	4700
42000212561	122	41	20	M30	125	188	24	5	5000
42000212562	122	41	20	M30	185	252	24	5	5000

Locknut available.



Available in blue color RAL 5005.

PA black reinforced polyamide.

Stainless steel stud AISI-304.

*Max. static load (vertical stud).

Holes can be opened with the help of a hammer for fixing the foot to the floor.

Other studs lengths, please ask.

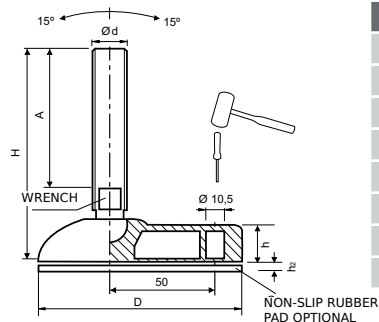
Optional: Black PVC non-slip rubber pad.

Supplied not mounted.

Code: 42005002120.



420003 ADJUSTABLE FEET WITH ASYMETRICAL BASE AND THREADED STUD



Code	D	d	A	H	Wrench	h	h2	Kg*
42000309530	95	M8	45	72	6	15	3	1200
42000309531	95	M8	65	92	6	15	3	1200
42000309532	95	M10	70	99	8	15	3	1300
42000309533	95	M12	43	74	10	15	3	1400
42000309534	95	M12	93	124	10	15	3	1400
42000309535	95	M16	90	125	13	15	3	1700
42000309536	95	M16	125	160	13	15	3	1700
42000309537	95	M16	165	200	13	15	3	1700

Locknut available.

PA black reinforced polyamide.

Treated steel stud.

*Max. static load (vertical stud).

Holes can be opened with the help of a hammer for fixing the foot to the floor.

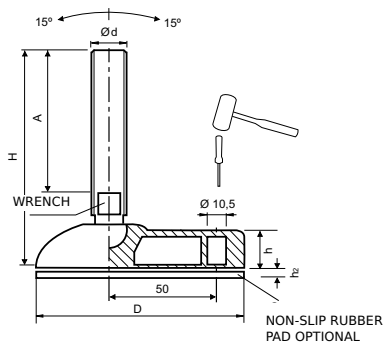
Other studs lengths, please ask.

Optional: Black PVC non-slip rubber pad.

Supplied not mounted.

Code: 42005003090.

420003 ADJUSTABLE FEET WITH ASYMETRICAL BASE AND THREADED STAINLESS STEEL STUD



Code	D	d	A	H	Wrench	h	h2	Kg*
42000309550	95	M8	45	72	6	15	3	1200
42000309551	95	M8	65	92	6	15	3	1200
42000309552	95	M10	70	99	8	15	3	1300
42000309553	95	M12	43	74	10	15	3	1400
42000309554	95	M12	93	124	10	15	3	1400
42000309555	95	M16	90	125	13	15	3	1700
42000309556	95	M16	125	160	13	15	3	1700
42000309557	95	M16	165	200	13	15	3	1700

Locknut available.

PA black reinforced polyamide.

Stainless steel stud AISI-304.

*Max. static load (vertical stud).

Holes can be opened with the help of a hammer for fixing the foot to the floor.

Other studs lengths, please ask.

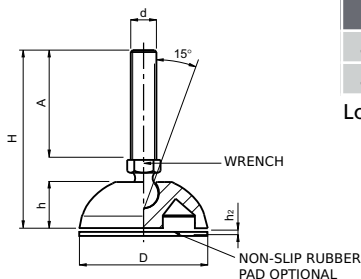
Optional: Black PVC non-slip rubber pad.

Supplied not mounted.

Code: 42005003090.



420004 ADJUSTABLE FEET 60 WITH POLYAMIDE BASE AND STUD



Code	D	h	d	A	H	Wrench	h2	Kg*
42000406501	60	17	M16	67	101	24	3	700
42000406502	60	17	M20	140	174	24	3	750

Locknut available.

PA black reinforced polyamide.

Black reinforced polyamide stud.

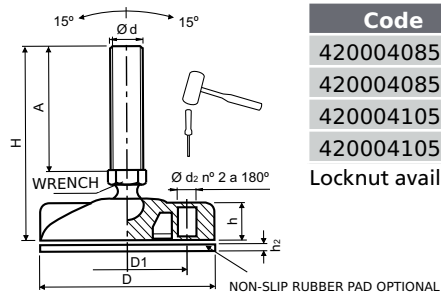
*Max. static load (vertical stud).

Optional: Black PVC non-slip rubber pad.

Supplied not mounted.

Code: 42005001060.

420004 ADJUSTABLE FEET 80/102 WITH POLYAMIDE BASE AND STUD



Code	D	D1	h	d	A	H	d2	Wrench	h2	Kg*
42000408501	80	54	17	M16	67	104	9	24	3	700
42000408502	80	54	17	M20	140	177	9	24	3	750
42000410501	102	74	20	M16	67	107	10,5	24	3	700
42000410502	102	74	20	M20	140	180	10,5	24	3	750

Locknut available.

PA black reinforced polyamide.
Black reinforced polyamide stud.

*Max. static load (vertical stud).

Holes can be opened with the help of a hammer for fixing the foot to the floor.

Other studs lengths, please ask.

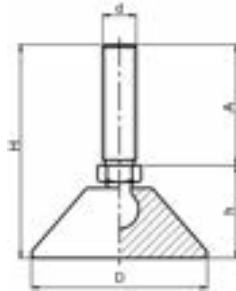
Optional: Black PVC non-slip rubber pad.

Supplied not mounted.

Ø80 Code: 42005001080.

Ø102 Code: 42005001100.

700050 ADJUSTABLE FEET



Code	D	H	h	d	A	Max. static load (Kg)
70005011320	32,5	45	20	M8	25	75
70005011400	40	45	20	M8	25	100
70005014400	40	57,5	20	M10	37,5	100
70005015400	40	70	20	M10	50	100
70005019470	47,5	70	20	M12	50	250

Locknut available.

Thermoplastic.

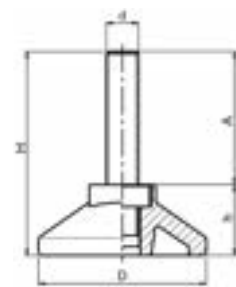
Treated steel stud.

Adjustment angle: 20°.

Locknut available.

*Max. static load (vertical stud).

700052 ADJUSTABLE FEET



Code	D	H	h	d	A	Max. static load *(Kg)
70005202100	25	41	16	M8	25	100
70005204100	25	53,5	16	M8	37,5	100
70005234100	38	41	16	M8	25	100
70005239100	38	53,5	16	M8	37,5	100

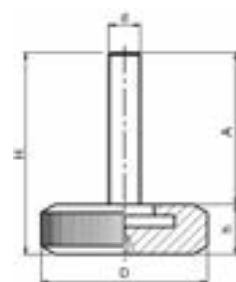
Locknut available.

Thermoplastic.

Treated steel stud.

Mounting with cross screwdriver on the base.

*Max. static load (vertical stud).



Code	D	H	h	d	A	Max. static load *(Kg)
70005210100	30	49	9	M10	40	500

Locknut available.

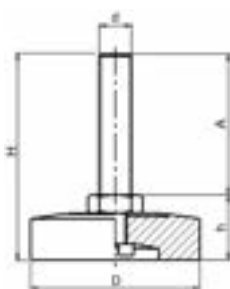
Thermoplastic.

Treated steel stud.

Mounting with cross screwdriver on the base.

*Max. static load (vertical stud).

700053 ADJUSTABLE FEET



Code	D	H	h	d	A	Max. static load *(Kg)
70005313100	25	50	15	M10	35	500
70005320100	37,5	50	15	M10	35	750
70005327100	47,5	60	15	M10	45	1000

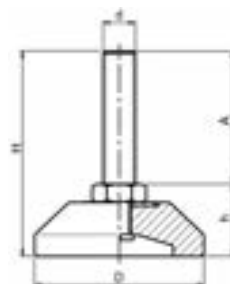
Locknut available.

Thermoplastic.

Treated steel stud.

Mounting with screwdriver on the base or with a wrench on the stud. These feet allow the stud to oscillate a few degrees.

*Max. static load (vertical stud).



Code	D	H	h	d	A	Max. static load *(Kg)
70005305100	47,5	54	19	M10	35	750

Locknut available.

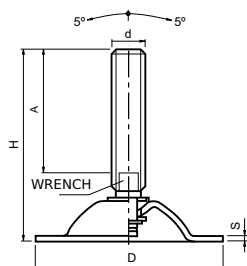
Thermoplastic.

Treated steel stud.

Mounting with screwdriver on the base or with a wrench on the stud. These feet allow the stud to oscillate a few degrees.

*Max. static load (vertical stud).

420005 ADJUSTABLE STEEL FEET



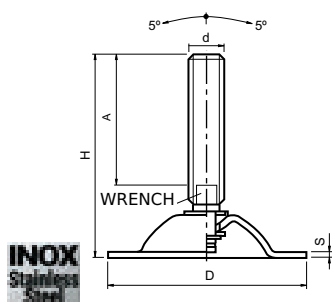
Code	D	H	d	A	S	Wrench	Kg*	Color
42000511530	113	100	M16	58	3,5	13	1500	natural
42000511531	113	187	M16	145	3,5	13	1500	natural
42000511532	113	152	M20	107	3,5	17	1500	natural
42000511533	113	202	M20	157	3,5	17	1500	natural
42000511534	113	138	M24	90	3,5	19	1500	natural
42000511535	113	210	M24	162	3,5	19	1500	natural
42000511536	113	173	M30	125	3,5	24	1500	natural

Locknut available.

Treated steel.

*Max. static load (vertical stud).

420005 ADJUSTABLE STAINLESS STEEL FEET



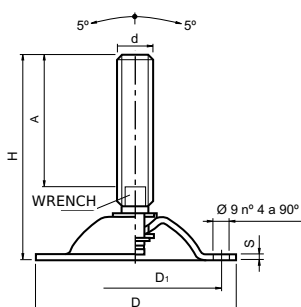
Code	D	H	d	A	S	Wrench	Kg*	Color
42000511550	113	100	M16	58	3	13	1000	natural
42000511551	113	187	M16	145	3	13	1000	natural
42000511552	113	152	M20	107	3	17	1000	natural
42000511553	113	202	M20	157	3	17	1000	natural
42000511554	113	138	M24	90	3	19	1000	natural
42000511555	113	210	M24	162	3	19	1000	natural
42000511556	113	173	M30	125	3	24	1000	natural

Locknut available.

Stainless steel AISI-304.

*Max. static load (vertical stud).

420006 ADJUSTABLE STEEL FEET WITH HOLES



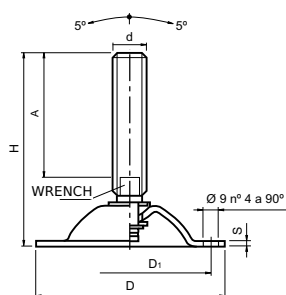
Code	D	H	d	A	D1	S	Wrench	Kg*	Color
42000611530	113	100	M16	58	95	3,5	13	1500	natural
42000611531	113	187	M16	145	95	3,5	13	1500	natural
42000611532	113	152	M20	107	95	3,5	17	1500	natural
42000611533	113	202	M20	157	95	3,5	17	1500	natural
42000611534	113	138	M24	90	95	3,5	19	1500	natural
42000611535	113	210	M24	162	95	3,5	19	1500	natural
42000611536	113	173	M30	125	95	3,5	24	1500	natural

Locknut available.

Treated steel.

*Max. static load (vertical stud).

420006 ADJUSTABLE STAINLESS STEEL FEET WITH HOLES



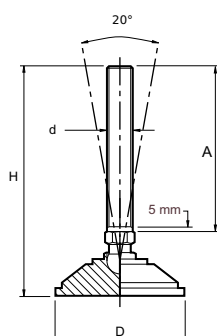
Code	D	H	d	A	D1	S	Wrench	Kg*	Color
42000611550	113	100	M16	58	95	3	13	1000	natural
42000611551	113	187	M16	145	95	3	13	1000	natural
42000611552	113	152	M20	107	95	3	17	1000	natural
42000611553	113	202	M20	157	95	3	17	1000	natural
42000611554	113	138	M24	90	95	3	19	1000	natural
42000611555	113	210	M24	162	95	3	19	1000	natural
42000611556	113	173	M30	125	95	3	24	1000	natural

Locknut available.

Stainless steel AISI-304.
*Max. static load (vertical stud).



820001 ADJUSTABLE FEET 070 NICKEL PLATED STEEL



Code	D	d	A	H	Kg*	Color
82000105501	55	M12	75	105	1000	Natural
82000105502	55	M12	150	180	1000	Natural
82000107501	70	M16	75	114	1500	Natural
82000107502	70	M16	150	189	1500	Natural
82000110501	100	M20	125	177	3000	Natural
82000110502	100	M20	200	250	3000	Natural
82000110503	100	M24	125	181	4000	Natural
82000110504	100	M24	200	256	4000	Natural

Locknut available.



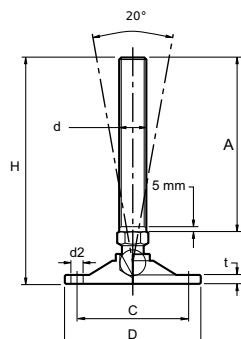
HYGIENIC SEAL



NON-SLIP RUBBER PAD

Electroless Nickel plated mild steel.
Optional: Hygienic Seal to provide a protective cover over the ball and socket arrangement.
Supplied as an accessory, not mounted.
Optional: Non Slip Pad, Nitrile Rubber (3mm Thick).
Supplied not mounted:
Ø 55 code 82007045004
Ø 70 code 82007045003
Ø 100 code 82007045001
Ask for other threads and lengths.
*Max. static load (vertical stud).

820002 ADJUSTABLE FEET 210 NICKEL PLATED STEEL



Code	D	d	A	H	C	d2	t	Kg*	Color
82000205501	50	M8	60	82	40	5,5	4	300	Natural
82000205502	50	M10	75	97	40	5,5	4	500	Natural
82000206501	60	M12	150	175	50	5,5	5	1250	Natural
82000208501	80	M16	75	106	68	6,5	6	1750	Natural
82000210501	100	M16	125	158	82	9	6,5	2500	Natural
82000210502	100	M20	150	189	82	9	6,5	2500	Natural
82000212501	120	M20	150	191	100	11	7,5	3750	Natural
82000212502	120	M24	150	206	100	11	7,5	3750	Natural

Locknut available.



HYGIENIC SEAL



NON-SLIP RUBBER PAD

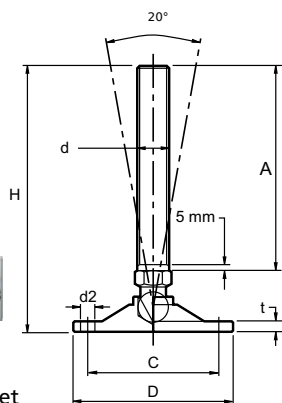
Electroless Nickel plated mild steel.
Optional: Hygienic Seal to provide a protective cover over the ball and socket arrangement.
Supplied as an accessory, not mounted.
Available for Ø100 self-adhesive non-slip rubber, order separately with code 82007045002.
Ask for other threads and lengths.
*Max. static load (vertical stud).

820003

ADJUSTABLE STAINLESS STEEL FEET 200



INOX
Stainless Steel



Stainless steel AISI-303.

Optional: Hygienic Seal to provide a protective cover over the ball and socket arrangement.

Supplied as an accessory, not mounted.

Available for Ø100 self-adhesive non-slip rubber, order separately with code 82007045002.

Ask for other threads and lengths.

*Max. static load (vertical stud).

Code	D	d	A	H	C	d2	t	Kg*	Color
82000305501	50	M8	60	82	40	5.5	4	300	Natural
82000305502	50	M10	75	97	40	5.5	5	500	Natural
82000305503	50	M12	75	100	40	5.5	4	750	Natural
82000306501	60	M12	150	175	50	5.5	5	1250	Natural
82000308501	80	M16	75	106	68	6.5	6	1750	Natural
82000310501	100	M16	125	158	82	9	6.5	2500	Natural
82000310502	100	M20	150	189	82	9	6.5	2500	Natural
82000312501	120	M20	150	191	100	11	7.5	3750	Natural
82000312502	120	M24	150	206	100	11	7.5	3750	Natural



Locknut available.



HYGIENIC SEAL



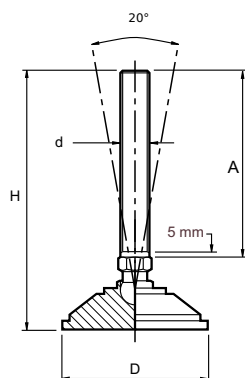
NON-SLIP RUBBER PAD

820005

ADJUSTABLE STAINLESS STEEL FEET 085



INOX
Stainless Steel



Stainless steel AISI-316 L.

Optional: Hygienic Seal to provide a protective cover over the ball and socket arrangement.

Supplied as an accessory, not mounted.

Optional: Non Slip Pad, Nitrile Rubber (3mm Thick).

Supplied not mounted

Ø 38 code 82007045005

Ø 55 code 82007045004

Ø 70 code 82007045003

Ø 100 code 82007045001

*Max. static load (vertical stud).

Code	D	d	A	H	Kg*	Color
82000503501	38	M8	60	85	450	Natural
82000503502	38	M10	75	100	450	Natural
82000505501	55	M12	150	180	1500	Natural
82000507501	70	M16	150	189	2000	Natural
82000510501	100	M20	150	202	3000	Natural
82000510502	100	M24	200	256	4000	Natural



Locknut available.



HYGIENIC SEAL



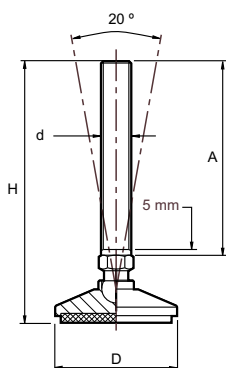
NON-SLIP RUBBER PAD

820006

ADJUSTABLE STAINLESS STEEL FEET 087



INOX
Stainless Steel



Stainless steel AISI-303.

Included: Non Slip Pad, Nitrile Rubber (3mm Thick) bonded to base.

Optional: Hygienic Seal to provide a protective cover over the ball and socket arrangement.

Supplied as an accessory, not mounted.

*Max. static load (vertical stud).

Code	D	d	A	H	Kg*	Color
82000605501	55	M12	75	102	750	Natural
82000605502	55	M12	125	152	750	Natural
82000606501	65	M16	75	108	1250	Natural
82000606502	65	M16	125	158	1250	Natural
82000607501	75	M20	125	166	1750	Natural
82000607502	75	M20	150	191	1750	Natural
82000610501	100	M24	125	177	2500	Natural
82000610502	100	M24	150	202	2500	Natural



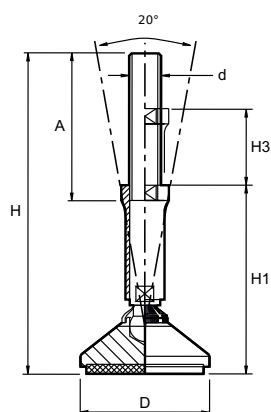
Locknut available.



HYGIENIC SEAL



INOX
Stainless
Steel



Code	D	d	A	H	H3	H1	Kg*	Color
82000705501	55	M12	68	104	25	70	750	Natural
82000705502	55	M12	92	154	50	95	750	Natural
82000707501	75	M16	68	130	50	75	1750	Natural
82000707502	75	M16	92	180	50	100	1750	Natural
82000710501	100	M20	68	136	25	85	2500	Natural
82000710502	100	M20	92	186	50	110	2500	Natural

Stainless steel AISI-303.

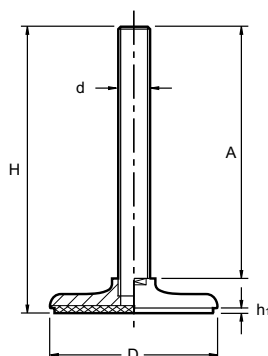
Included: Hygienic Seal to provide a protective cover over the ball and socket arrangement.

Included: Non Slip Pad, Nitrile Rubber (3mm Thick) bonded to base.

*Max. static load (vertical stud).



INOX
Stainless
Steel



Locknut available.

Ask for other base diameters, threads and lengths.

*Max. static load (vertical stud).

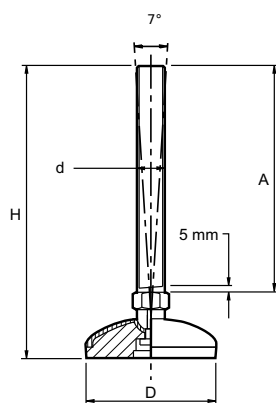
Code	D	d	A	H	h1	Kg*	Color
55000804501	40	M8	40	52	3	450	Natural
82000804502	40	M10	60	72	3	600	Natural
82000805501	50	M8	60	74	3	450	Natural
55000805502	50	M10	80	94	3	600	Natural
82000805503	50	M12	50	65	3	750	Natural
82000805504	50	M12	100	115	3	750	Natural
55000808501	80	M16	150	171	3	2000	Natural
55000810501	100	M16	149	174	2	2000	Natural
55000812501	120	M20	200	224	3	3000	Natural
82000815501	150	M24	200	226	3	4000	Natural

Stainless steel AISI-303.

Included: Non Slip Pad, Nitrile Rubber (3mm Thick) bonded to base.



INOX
Stainless
Steel



Stainless steel AISI-303.

Included: Non Slip Pad, Nitrile Rubber bonded to base.

Optional: Hygienic Seal to provide a protective cover over the ball and socket arrangement, Code 820071. Supplied as an accessory, not mounted.

Ask for other threads and lengths.*Max. static load (vertical stud).

Code	D	d	A	H	Kg*	Color
82002051105	50	M10	50	75	350	Natural
82002051310	50	M12	100	125	350	Natural
82002051710	50	M16	100	128	350	Natural
82002071710	75	M16	100	133	750	Natural
82002072110	75	M20	150	185	750	Natural
82002101710	100	M16	100	138	1000	Natural
82002105022	100	M16	150	188	1000	Natural
82002102115	100	M20	150	191	1000	Natural
82002102515	100	M24	150	193	1000	Natural

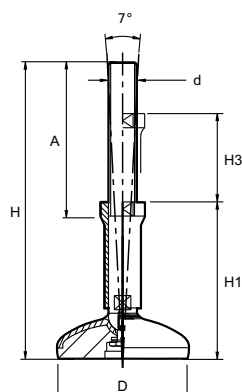


Locknut available.

PLASTIC HYGIENIC SEAL



INOX
Stainless
Steel



Code	D	d	A	H	H1	H3	Kg*	Color
82002205501	50	M12	68	104	70	25	350	Natural
82002205502	50	M12	92	154	95	50	350	Natural
82002207501	75	M16	68	130	75	50	750	Natural
82002207502	75	M16	92	180	100	50	750	Natural
82002210501	100	M20	68	136	85	25	1000	Natural
82002210502	100	M20	92	186	110	50	1000	Natural

Stainless steel AISI-303.

Included: Non Slip Pad, Nitrile Rubber bonded to base.

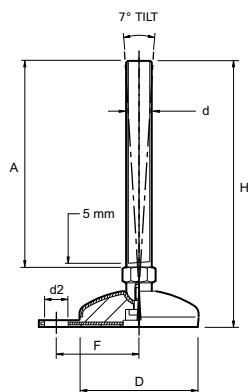
Optional: Hygienic Seal to provide a protective cover over the ball and socket arrangement. Code 820071.

Ask for other threads and lengths.

*Max. static load (vertical stud).



INOX
Stainless
Steel



Code	D	d	A	H	F	d2	Kg*	Color
82005071710	75	M16	100	133	52	13	750	Natural
82005071810	75	M16	150	183	52	13	750	Natural
82005072115	75	M20	150	185	52	13	750	Natural
82005091710	100	M16	100	138	67	13	1000	Natural
82005092115	100	M20	150	191	67	13	1000	Natural
82005092515	100	M24	150	193	67	13	1000	Natural

Locknut available.



PLASTIC HYGIENIC SEAL

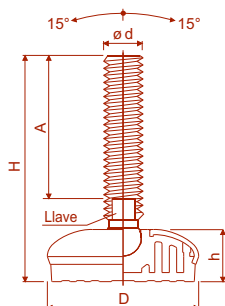
stainless steel AISI-303.

Included: Non Slip Pad, Nitrile Rubber bonded to base.

Optional: Hygienic Seal to provide a protective cover over the ball and socket arrangement, Code 820071.

Supplied as an accessory, not mounted.

*Max. static load (vertical stud).



Internal part made of reinforced polyamide; external covering made of stainless steel AISI 304.

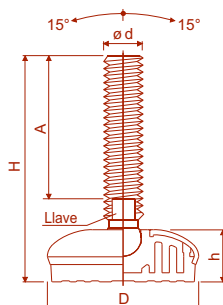
Anti-slip pad made of thermoplastic rubber 68 Shore black. Co-moulded anti-slip pad allows a perfect adherence with steel base. Consequent absence of internal cavities makes foot extremely cleanable. The threaded insert guarantees the protection of the spindle thread.

Locknut available.

*Max. static load (vertical stud).

INOX
Stainless
Steel

Code	D	d	A	H	Wrench	h	Kg*
43005007503	75	M16x2	60	103	13	26	1900
43005007504	75	M16x2	90	133	13	26	1900
43005007505	75	M16x2	105	148	13	26	1900
43005007506	75	M16x2	125	168	13	26	1900
43005007507	75	M16x2	155	198	13	26	1900
43005007508	75	M16x2	165	208	13	26	1900
43005007509	75	M16x2	205	248	13	26	1900
43005007510	75	M20x2,5	86	132	17	26	2100
43005007511	75	M20x2,5	116	162	17	26	2100
43005007512	75	M20x2,5	141	187	17	26	2100
43005007513	75	M20x2,5	198	244	17	26	2100
43005007514	75	M24x3	96	142	19	26	2300
43005007515	75	M24x3	122	168	19	26	2300
43005007516	75	M24x3	152	198	19	26	2300
43005007517	75	M24x3	182	228	19	26	2300
43005007518	75	M24x3	300	346	19	26	2300
43005007519	75	M30x3,5	144	190	24	26	2500



Internal part made of reinforced polyamide; external covering made of stainless steel AISI 304.

Anti-slip pad made of thermoplastic rubber 68 Shore black. Co-moulded anti-slip pad allows a perfect adherence with steel base. Consequent absence of internal cavities makes foot extremely cleanable. The threaded insert guarantees the protection of the spindle thread.

Locknut available.

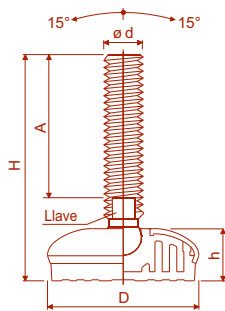
*Max. static load (vertical stud).

INOX
Stainless
Steel

Code	D	d	A	H	Wrench	h	Kg*
43005009503	95	M16x2	60	103	13	26	2200
43005009504	95	M16x2	90	133	13	26	2200
43005009505	95	M16x2	105	148	13	26	2200
43005009506	95	M16x2	125	168	13	26	2200
43005009507	95	M16x2	155	198	13	26	2200
43005009508	95	M16x2	165	208	13	26	2200
43005009509	95	M16x2	205	248	13	26	2200
43005009510	95	M20x2,5	86	132	17	26	2400
43005009511	95	M20x2,5	116	162	17	26	2400
43005009512	95	M20x2,5	141	187	17	26	2400
43005009513	95	M20x2,5	198	244	17	26	2400
43005009514	95	M24x3	96	142	19	26	2600
43005009515	95	M24x3	122	168	19	26	2600
43005009516	95	M24x3	152	198	19	26	2600
43005009517	95	M24x3	182	228	19	26	2600
43005009518	95	M24x3	300	346	19	26	2600
43005009519	95	M30x3,5	144	190	24	26	2800

430050

ADJUSTABLE FEET Ø120 SANITIZABLE



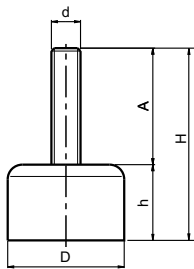
Internal part made of reinforced polyamide; external covering made of stainless steel AISI 304.
Anti-slip pad made of thermoplastic rubber 68 Shore black. Co-moulded anti-slip pad allows a perfect adherence with steel base. Consequent absence of internal cavities makes foot extremely cleanable. The threaded insert guarantees the protection of the spindle thread.
Locknut available.
*Max. static load (vertical stud).



Code	D	d	A	H	Wrench	h	Kg*
43005012503	120	M16x2	60	103	13	26	2500
43005012504	120	M16x2	90	133	13	26	2500
43005012505	120	M16x2	105	148	13	26	2500
43005012506	120	M16x2	125	168	13	26	2500
43005012507	120	M16x2	155	198	13	26	2500
43005012508	120	M16x2	165	208	13	26	2500
43005012509	120	M16x2	205	248	13	26	2500
43005012510	120	M20x2,5	86	132	17	26	2700
43005012511	120	M20x2,5	116	162	17	26	2700
43005012512	120	M20x2,5	141	187	17	26	2700
43005012513	120	M20x2,5	198	244	17	26	2700
43005012514	120	M24x3	96	142	19	26	2900
43005012515	120	M24x3	122	168	19	26	2900
43005012516	120	M24x3	152	198	19	26	2900
43005012517	120	M24x3	182	228	19	26	2900
43005012518	120	M24x3	300	346	19	26	2900
43005012519	120	M30x3,5	144	190	24	26	3100

820060

RUBBER FEET B WITH STAINLESS STEEL STUD

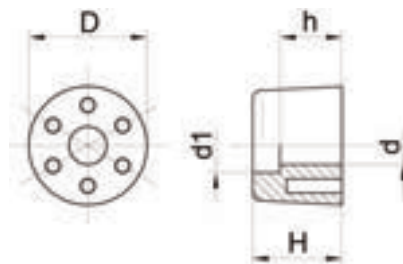


Code	D	h	d	A	H	Kg*	Color
82006010602	20	13	M6	20	33	10	Natural
82006020802	25	14	M8	20	34	15	Natural
82006031003	30	16	M10	25	41	25	Natural
82006031005	30	16	M10	50	66	25	Natural
82006041204	40	20	M12	40	60	65	Natural
82006041207	40	20	M12	70	90	65	Natural
82006051204	50	20	M12	40	60	90	Natural

Black Rubber (NBR 60° Shore)
Stainless steel stud.
Stainless steel bolt embedded in black rubber conforming with FDA.
Suitable for light equipment standing on smooth surfaces.
* Max.static load (vertical stud).

410076

THROUGH HOLE BASE



Code	D	d	d1	H	h	Color
41007625000	25	6	11	24	17	Black

Black thermoplastic elastomer with high mechanical resistance.
Available in other colors for suitable quantities.

820070 NON-SLIP RUBBER PAD



Code	D (Base diameter)	Material	Color
82007045001	100	Nitrile	Black
82007045002	100 (with holes)	Nitrile	Black
82007045003	70	Nitrile	Black
82007045004	55	Nitrile	Black
82007045005	38	Nitrile	Black

Material Black nitrile.

Choose for the appropriate diameter base.

All the parts are without holes except code 82007045002.

820071 HYGIENIC SEAL



Code	d	Material	Color
82007146001	M24	Rubber	Black
82007146002	M20	Rubber	Black
82007146003	M16	Rubber	Black
82007146004	M12	Rubber	Black
82007146021	M12	Plastic	Black
82007146022	M16	Plastic	Black
82007146023	M20	Plastic	Black
82007146024	M24	Plastic	Black

Choose the right model for your thread dimension.

The rubber hygienic seal works with models: 820001, 820002, 820003, 820005, 820006.

The plastic hygienic seal works with models: 820020, 820050.

Provide a protective cover over the ball and socket arrangement helping prevent the ingress of contaminants into this inaccessible area.

110088 FEET LOCKNUTS



Material treated steel or stainless steel AISI-304.
DIN 934.



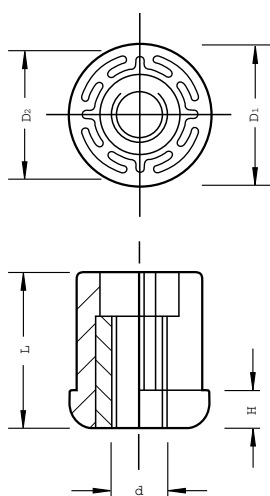
Code	d (Thread)	Material
11008800006	M6	Zinc-plated
11008800008	M8	Zinc-plated
11008800010	M10	Zinc-plated
11008800012	M12	Zinc-plated
11008800016	M16	Zinc-plated
11008800106	M6	Inox
11008800108	M8	Inox
11008800110	M10	Inox
11008800112	M12	Inox
11008800116	M16	Inox

420064

END-CAPS FOR ROUND TUBES



PA Reinforced polyamide.
Threaded female brass insert.
D1: Tube external diameter.
D2: Tube internal diameter.
* Max. static load.
s: Tube thickness.



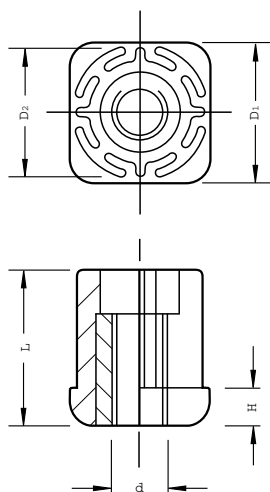
Code	D1	s	D2	d	H	L	* Kg	Color
42006430108	30	1	28	M8	6	31	450	Black
42006430110	30	1	28	M10	6	31	500	Black
42006430112	30	1	28	M12	6	31	550	Black
42006430114	30	1	28	M14	6	31	600	Black
42006430116	30	1	28	M16	6	31	650	Black
42006438210	38	1,5	35	M10	8	38	500	Black
42006438212	38	1,5	35	M12	8	38	550	Black
42006438214	38	1,5	35	M14	8	38	600	Black
42006438216	38	1,5	35	M16	8	38	650	Black
42006442210	42,4	1,5	39,4	M10	8	38	700	Black
42006442212	42,4	1,5	39,4	M12	8	38	750	Black
42006442214	42,4	1,5	39,4	M14	8	38	800	Black
42006442216	42,4	1,5	39,4	M16	8	38	850	Black
42006442220	42,4	1,5	39,4	M20	8	38	900	Black
42006448212	48,3	1,5	45,3	M12	10	45	800	Black
42006448214	48,3	1,5	45,3	M14	10	45	850	Black
42006448216	48,3	1,5	45,3	M16	10	45	900	Black
42006448220	48,3	1,5	45,3	M20	10	45	950	Black
42006460310	60,3	2	56,3	M10	12	52	750	Black
42006460312	60,3	2	56,3	M12	12	52	800	Black
42006460314	60,3	2	56,3	M14	12	52	850	Black
42006460316	60,3	2	56,3	M16	12	52	900	Black
42006460320	60,3	2	56,3	M20	12	52	950	Black
42006460324	60,3	2	56,3	M24	12	52	1000	Black
42006460410	60,3	2,5	55,3	M10	12	52	750	Black
42006460412	60,3	2,5	55,3	M12	12	52	800	Black
42006460414	60,3	2,5	55,3	M14	12	52	850	Black
42006460416	60,3	2,5	55,3	M16	12	52	900	Black
42006460420	60,3	2,5	55,3	M20	12	52	950	Black
42006460424	60,3	2,5	55,3	M24	12	52	1000	Black

420068

END-CAPS FOR SQUARE TUBES



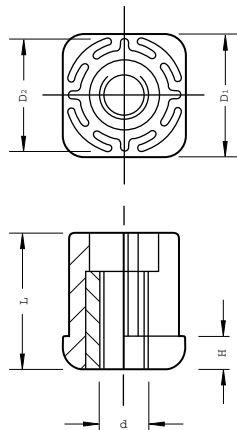
PA Reinforced polyamide.
Threaded female brass
insert.
D1: Tube external measure.
D2: Tube internal measure.
* Max. static load.
s: Tube thickness.



Code	D1	s	D2	d	H	L	* Kg	Color
42006820208	20x20	1,5	17	M8	5	23	450	Black
42006825208	25x25	1,5	22	M8	6	26	450	Black
42006825210	25x25	1,5	22	M10	6	26	500	Black
42006825212	25x25	1,5	22	M12	6	26	550	Black
42006830210	30x30	1,5	27	M10	6	31	500	Black
42006830212	30x30	1,5	27	M12	6	31	550	Black
42006830214	30x30	1,5	27	M14	6	31	600	Black
42006830216	30x30	1,5	27	M16	6	31	650	Black
42006835210	35x35	1,5	32	M10	8	38	700	Black
42006835212	35x35	1,5	32	M12	8	38	750	Black
42006835214	35x35	1,5	32	M14	8	38	800	Black
42006835216	35x35	1,5	32	M16	8	38	850	Black
42006835220	35x35	1,5	32	M20	8	38	900	Black
42006840210	40x40	1,5	37	M10	8	38	750	Black
42006840212	40x40	1,5	37	M12	8	38	800	Black
42006840214	40x40	1,5	37	M14	8	38	850	Black
42006840216	40x40	1,5	37	M16	8	38	900	Black
42006840220	40x40	1,5	37	M20	8	38	950	Black
42006840310	40x40	2	36	M10	8	38	750	Black
42006840312	40x40	2	36	M12	8	38	800	Black
42006840314	40x40	2	36	M14	8	38	850	Black
42006840316	40x40	2	36	M16	8	38	900	Black
42006840320	40x40	2	36	M20	8	38	950	Black
42006845310	45x45	2	41	M10	8	38	750	Black
42006845312	45x45	2	41	M12	8	38	800	Black
42006845314	45x45	2	41	M14	8	38	850	Black
42006845316	45x45	2	41	M16	8	38	900	Black
42006850212	50x50	1,5	47	M12	10	45	750	Black



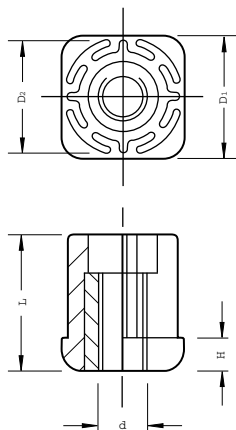
PA Reinforced polyamide.
Threaded female brass insert.
D1: Tube external measure.
D2: Tube internal measure.
* Max. static load.
s: Tube thickness.



Code	D1	s	D2	d	H	L	* Kg	Color
42006850214	50x50	1,5	47	M14	10	45	850	Black
42006850216	50x50	1,5	47	M16	10	45	900	Black
42006850220	50x50	1,5	47	M20	10	45	950	Black
42006850312	50x50	2	47	M12	10	45	800	Black
42006850314	50x50	2	46	M14	10	45	850	Black
42006850316	50x50	2	46	M16	10	45	900	Black
42006850320	50x50	2	46	M20	10	45	950	Black
42006860512	60x60	3	54	M12	10	45	800	Black
42006860514	60x60	3	54	M14	10	45	850	Black
42006860516	60x60	3	54	M16	10	45	900	Black
42006860520	60x60	3	54	M20	10	45	950	Black
42006880516	80x80	3	74	M16	10	45	900	Black
42006880520	80x80	3	74	M20	10	45	950	Black

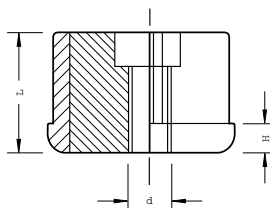
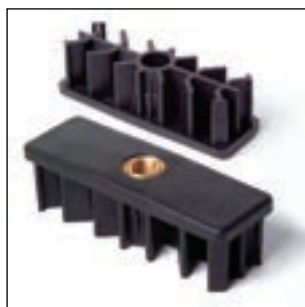


PA Reinforced polyamide.
Stainless steel female threaded
insert AISI-303.
D1: Tube external measure.
D2: Tube internal measure.
* Max. static load.
s: Tube thickness.



Code	D1	s	D2	d	H	L	Kg*	Color
82006830210	30X30	1.5	27	M10	8	43	500	Black
82006830212	30X30	1.5	27	M12	8	43	500	Black
82006830216	30X30	1.5	27	M16	8	43	500	Black
82006840210	40X40	1.5	37	M10	8	43	1000	Black
82006840212	40X40	1.5	37	M12	8	43	1000	Black
82006840216	40X40	1.5	37	M16	8	43	1000	Black
82006840220	40X40	1.5	37	M20	8	43	1000	Black
82006840310	40X40	2	36	M10	8	43	1000	Black
82006840312	40X40	2	36	M12	8	43	1000	Black
82006840316	40X40	2	36	M16	8	43	1000	Black
82006840320	40X40	2	36	M20	8	43	1000	Black
82006850216	50X50	1.5	47	M16	10	55	1200	Black
82006850220	50X50	1.5	47	M20	10	55	1200	Black
82006850224	50X50	1.5	47	M24	10	55	1200	Black
82006850316	50X50	2	46	M16	10	55	1200	Black
82006850320	50X50	2	46	M20	10	55	1200	Black
82006850324	50X50	2	46	M24	10	55	1200	Black



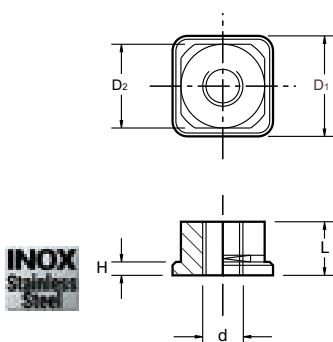


PA Reinforced polyamide.
Threaded female brass insert.
D1: Tube external measure.
D2: Tube internal measure.
* Max. static load.
s: Tube thickness.

Code	D1	s	D2	d	H	L	* Kg	Color
42008220308	20x50	2	16x46	M8	5	38	450	Black
42008230308	30x60	2,5	25x55	M8	8	38	450	Black
42008230310	30x60	2,5	25x55	M10	8	38	500	Black
42008230312	30x60	2,5	25x55	M12	8	38	550	Black
42008230316	30x60	2,5	25x55	M16	8	38	650	Black
42008240316	40x80	2	36x76	M16	10	45	900	Black
42008240320	40x80	2	36x76	M20	10	45	950	Black
42008250302	50x100	2	46x96	M16	10	45	900	Black
42008250303	50x100	2	46x96	M20	10	45	950	Black
42008250305	50x100	3	44x94	M16	10	45	900	Black
42008250306	50x100	3	44x94	M20	10	45	950	Black
42008250316	50x150	3	44x144	M16	10	45	900	Black
42008250320	50x150	3	44x144	M20	10	45	950	Black
42008260316	60x120	3	54x114	M16	10	45	900	Black
42008260320	60x120	3	54x114	M20	10	45	950	Black

820073-820074-820075

METAL FRAME INSERTS P30 - P40 - P50



Stainless steel AISI-303.
Plate with internal thread to
weld to the tube.
D1: Tube external measure.
D2: Tube internal measure.
* Max. static load.
s: Tube thickness.

Code	D1	s	D2	d	H	L	Kg*	Color
82007300112	30x30	2	26x26	M12	4	12	1500	Natural
82007300016	30x30	2	26x26	M16	4	16	2000	Natural
82007300212	30x30	3	24x24	M12	4	12	1500	Natural
82007300116	30x30	3	24x24	M16	4	16	2000	Natural
82007400116	40x40	2	36x36	M16	5	16	2000	Natural
82007400120	40x40	2	36x36	M20	5	20	3000	Natural
82007400216	40x40	3	34x34	M16	5	16	2000	Natural
82007400220	40x40	3	34x34	M20	5	20	3000	Natural
82007400024	40x40	3	34x34	M24	5	24	4000	Natural
82007500116	50x50	2	46x46	M16	6	16	2000	Natural
82007500120	50x50	2	46x46	M20	6	20	3000	Natural
82007500024	50x50	2	46x46	M24	6	24	4000	Natural
82007500216	50x50	3	44x44	M16	6	16	2000	Natural
82007500220	50x50	3	44x44	M20	6	20	3000	Natural
82007500124	50x50	3	44x44	M24	6	24	4000	Natural

Brauer Toggle Clamps

The most appropriate solutions for locking and fastening

VERTICAL TOGGLE CLAMPS

					
74001106101	74001110201	74001110101	74001110501	74001110701	74001403101

HORIZONTAL TOGGLE CLAMPS

					
74000107201	74000107601	74000107101	74000107501	74000135401	74000435101

PUSH-PULL TOGGLE CLAMPS

					
74002105050	74002125000	74002110000	74002110050	74002235000	74002312000

TOGGLE HOOK CLAMPS

					
74003102000	74003502000	74003340000	74003303101	74003303100	74003104050

PNEUMATIC CLAMPS

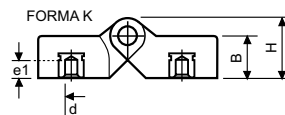
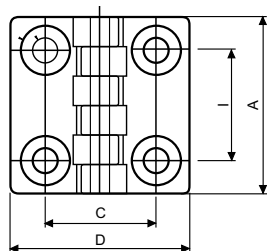
					
BPC40	74003903000	74004104500	74003806000	74004120000	74003606102

Consult the characteristics and technical details on our website.

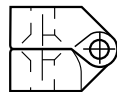
470054K FLAT HINGE WITH THREADED INSERTS



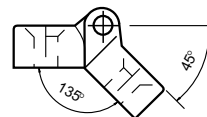
PA Reinforced polyamide resistant to oils and greases.
Galvanised steel pin and brass inserts with female threaded hole.



Code	A	D	I	C	H	B	d	e1	Color
47005404301	48	48	30	30	15,5	10,5	M5	7	Black
47005406301	64	64	40	40	19	13	M6	8,5	Black
47005406302	64	64	40	40	19	13	M8	8,5	Black
47005409301	96	96	60	63	28,5	19	M8	14	Black
47005409302	96	96	60	63	28,5	19	M10	14	Black



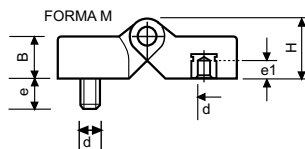
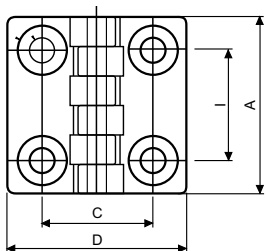
180°



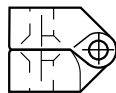
470054M FLAT HINGE WITH THREADED INSERTS AND THREADED STUDS



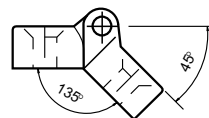
PA Reinforced polyamide resistant to oils and greases.
Galvanised steel pin, brass inserts and zinc plated steel studs.



Code	A	D	I	C	H	B	d	e	e1	Color
47005404701	48	48	30	30	15,5	10,5	M5	15	7	Black
47005404702	48	48	30	30	15,5	10,5	M6	15	7	Black
47005406701	64	64	40	40	19	13	M6	20	9	Black
47005406702	64	64	40	40	19	13	M8	20	9	Black
47005409701	95	95	60	63	28,5	19	M8	20	13	Black
47005409702	95	95	60	63	28,5	19	M10	20	13	Black



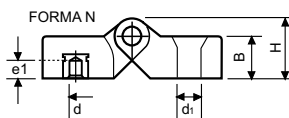
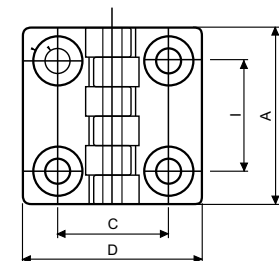
180°



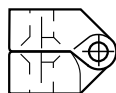
470054N FLAT HINGE WITH THROUGH HOLES AND THREADED INSERTS



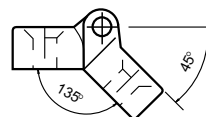
PA Reinforced polyamide resistant to oils and greases.
Galvanised steel pin and brass inserts with female threaded hole.



Code	A	D	I	C	H	B	d	d1	e1	Color
47005404402	48	48	30	30	15,5	10,5	M6	6,5	7	Black
47005406401	64	64	40	40	19	13	M6	6,5	8,5	Black



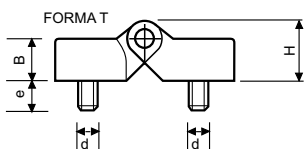
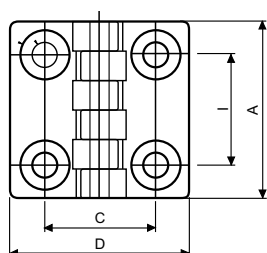
180°



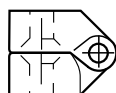
470054T FLAT HINGE WITH THREADED STUDS



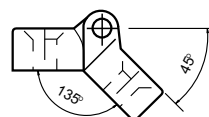
PA Reinforced polyamide resistant to oils and greases..
Galvanised steel pin and treated steel studs.



Code	A	D	I	C	H	B	d	e	Color
47005404501	48	48	30	30	15,5	10,5	M5	15	Black
47005404502	48	48	30	30	15,5	10,5	M6	15	Black
47005406501	64	64	40	40	19	13	M6	20	Black
47005406502	64	64	40	40	19	13	M8	20	Black
47005409501	95	95	60	63	28,5	19	M8	20	Black
47005409502	95	95	60	63	28,5	19	M10	20	Black



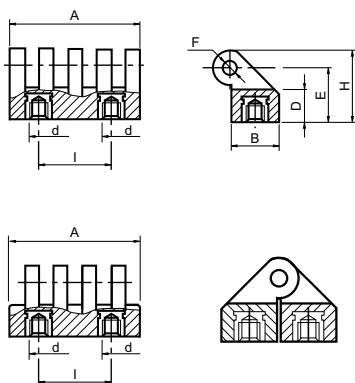
180°



470055K HK HINGE WITH THREADED INSERTS



PA Reinforced polyamide resistant to oils and greases. Galvanised steel pin and brass inserts with female threaded hole.



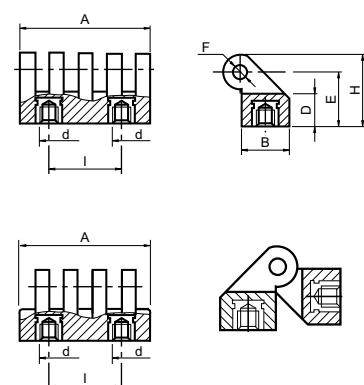
Code	A	D	I	d	E	B	H	F	Color
47005503551	30	11	15	M5	19	17	24,5	4	Black
47005505351	54	13	30	M6	22	21,5	30	5	Black
47005507351	78	18,5	42	M8	31	30	42,5	8	Black

Complete rotation 180°.

470055K* HK* HINGE WITH THREADED INSERTS

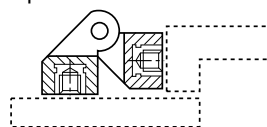


PA Reinforced polyamide resistant to oils and greases. Galvanised steel pin and brass inserts with female threaded hole.



Code	A	D	I	d	E	B	H	F	Color
47005503553	30	11	15	M5	19	17	24,5	4	Black
47005505353	54	13	30	M6	22,5	21,5	30	5	Black
47005507353	78	18,5	42	M8	31,5	30	42,5	8	Black

Complete rotation 180°.

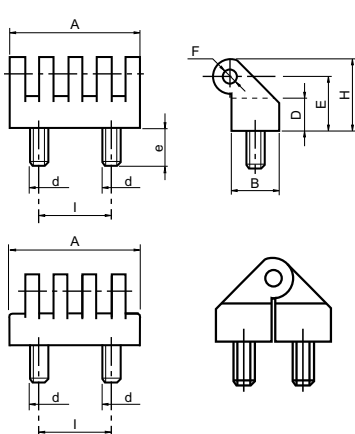


MOUNTING SAMPLE

470055T HT HINGE WITH THREADED STUDS



PA Reinforced polyamide resistant to oils and greases. Galvanised steel pin and treated steel studs.



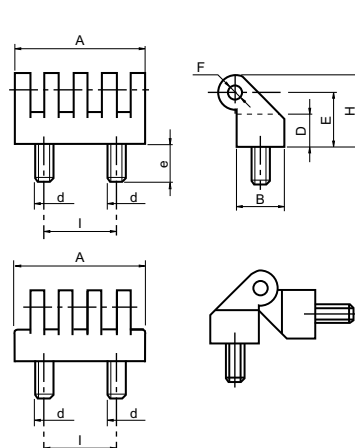
Code	A	D	I	d	e	E	B	H	F	Color
47005503552	30	11	15	M5	10	19	17	24,5	4	Black
47005505352	54	13	30	M6	15	22,5	21,5	30	5	Black
47005507352	78	18,5	42	M8	20	31,5	30	42,5	8	Black

Complete rotation 180°.

470055T* HT* HINGE WITH THREADED STUDS

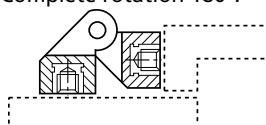


PA Reinforced polyamide resistant to oils and greases. Galvanised steel pin and treated steel studs.



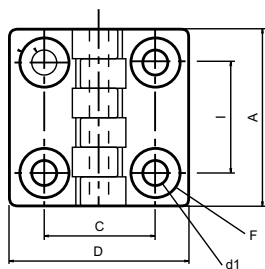
Code	A	D	I	d	e	E	B	H	F	Color
47005503554	30	11	15	M5	10	19	17	24,5	4	Black
47005505354	54	13	30	M6	15	22,5	21,5	30	5	Black
47005507354	78	18,5	42	M8	20	31,5	30	42,5	8	Black

Complete rotation 180°.

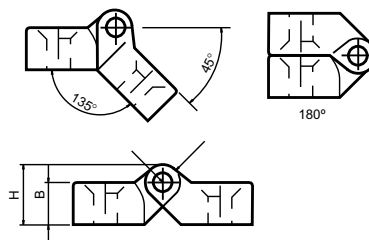


MOUNTING SAMPLE

470056 THROUGH HOLE HINGE



Code	A	D	I	C	d1	B	H	F	Color
47005603050	32	32	20	20	4,5	7	10,5	8	Black
47005604055	48	48	30	30	6,5	10,5	15,5	13	Black
47005606056	64	64	40	40	6,5	13	19	13	Black
47005609050	96	96	60	63	8,5	16	24	16	Black
47005610050	96	96	60	63	10,5	16	24	20	Black

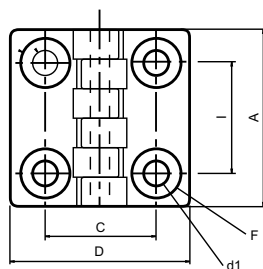


PA Reinforced polyamide resistant to oils and greases.
Galvanised steel pin.

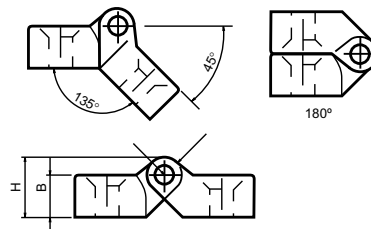
470056 THROUGH HOLE HINGE WITH STAINLESS STEEL PIN



INOX
Stainless Steel

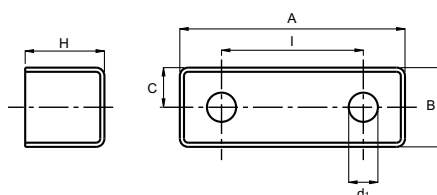


Code	A	D	I	C	d1	B	H	F	Color
47005603150	32	32	20	20	4,5	7	10,5	8	Black
47005604150	48	48	30	30	6,5	10,5	15,5	13	Black
47005606150	64	64	40	40	6,5	13	19	13	Black
47005609150	96	96	60	63	8,5	16	24	16	Black
47005610150	96	96	60	63	10,5	16	24	20	Black



PA Reinforced polyamide resistant to oils and greases.
Stainless steel pin.

470057 SHIM FOR HINGE WITH THROUGH HOLES 470056



Code	A	I	C	d1	B	H	Color
47005741030	48	30	8	8,5	22	22,5	Black
47005741140	65	40	11	8,5	22	22,5	Black

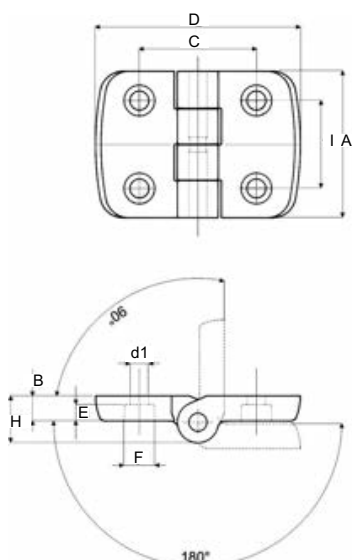
PA Reinforced polyamide resistant to oils and greases.

420046 233 THROUGH HOLE HINGE



PA Reinforced polyamide
resistant to oils and greases.
Stainless steel pin.
Maximum rotation 270°.

INOX
Stainless
Steel



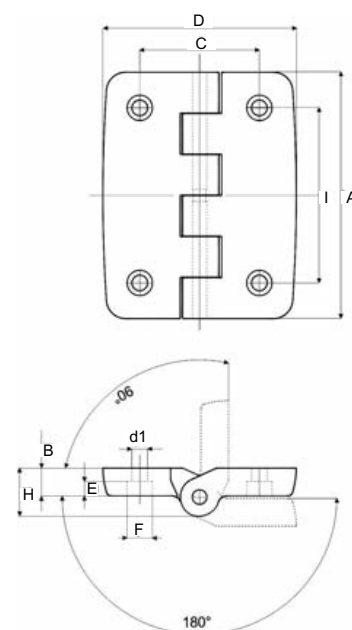
Code	A	D	I	C	d1	F	B	E	H	Color
42004680970	50	50	34	34	5,5	10,5	8,5	3,5	16	Black
42004680772	50	50	30	31	5,5	9	8,5	5	16	Black
42004680773	50	70	30	40	6,5	10,5	8,5	6	16	Black
42004680774	50	70	30	46	6,5	10,5	8,5	6	16	Black
42004680775	50	70	30	46	8,5	13,5	8,5	5	16	Black

420047 234 THROUGH HOLE HINGE



PA Reinforced polyamide
resistant to oils and greases.
Stainless steel pin.
Maximum rotation 270°.

INOX
Stainless
Steel

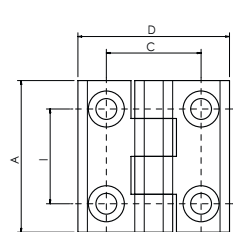


Code	A	D	I	C	d1	F	B	E	H	Color
42004780776	102	80	72,5	49,5	6,5	10,5	11,5	6	20	Black
42004780777	102	80	72,5	49,5	8,5	13,5	11,5	8	20	Black

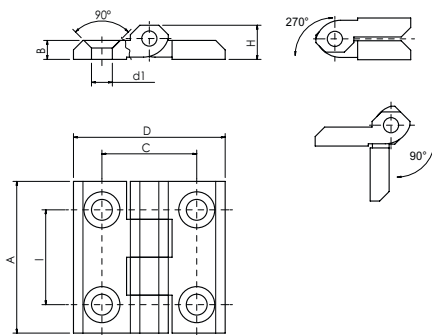
470056 BK METAL HINGE WITH THROUGH HOLES BLACK COATED



Die-cast zamak alloy (zinc,
aluminium and copper alloy).
Black cataphoresis coating.
Stainless steel pivot pin (AISI 303).

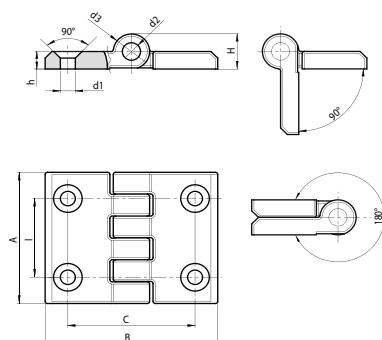


Code	A	D	I	C	d1	B	H	Color
47005604910	40	40	25	25	5,5	5	9	Black
47005605910	50	50	30	30	6,5	6	11,5	Black
47005606910	60	60	36	36	6,5	8	15	Black
47005607910	64	64	40	40	6,5	6	11,5	Black

470056 CR**METAL HINGE WITH THROUGH HOLES ZINC-PLATED**

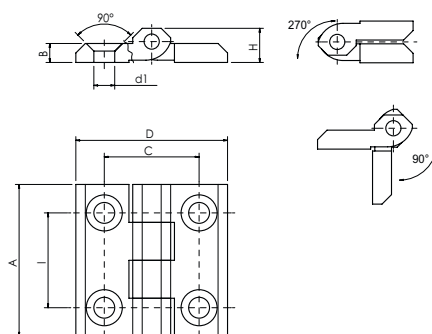
Code	A	D	I	C	d1	B	H	Color
47005604920	40	40	25	25	5,5	5	9	Galvanized
47005605920	50	50	30	30	6,5	6	11,5	Galvanized
47005606920	60	60	36	36	8,5	8	15	Galvanized

Die-cast zamak alloy (zinc, aluminium and copper alloy).
Standard blue galvanising.
Stainless steel pivot pin (AISI 303).

470056 ZK**FLAT ZAMAK HINGE WITH THROUGH HOLES**

Code	I	C	A	B	h	H	d2	d3	d1
47005606250	36	56	60	76	8	16	8	15,5	6,5

Die-cast zamak alloy (zinc, aluminium and copper alloy).
Galvanised steel pivot pin (C45).
Satin finished.
Working temperature from +200° to -30°.

550056 INOX**STAINLESS STEEL HINGE WITH THROUGH HOLES**

Code	A	D	I	C	d1	B	H	Color
55005604930	40	40	25	25	5,5	5	9	Natural
55005605930	50	50	30	30	6,5	5,5	11,5	Natural
55005606930	60	60	36	36	8,5	8	15	Natural

Stainless steel (AISI 316).
Stainless steel pivot pin (AISI 303).

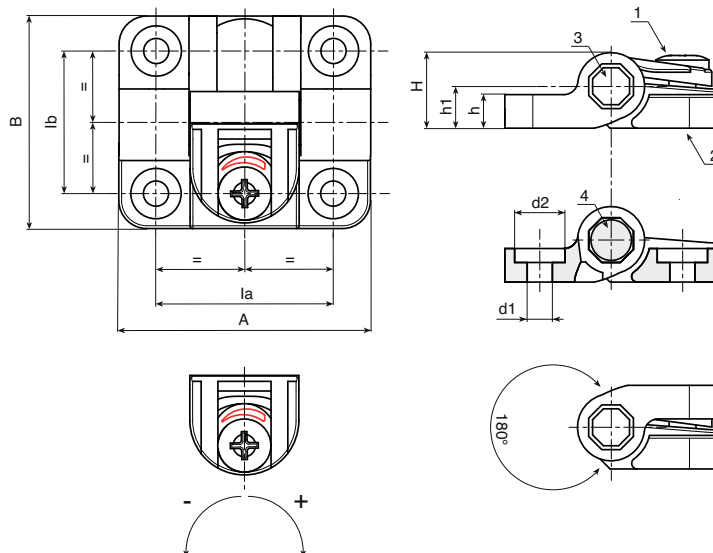
INOX
Stainless
Steel

470066 FR HINGE WITH ADJUSTABLE FRICTION AND THROUGH HOLE



Reinforced polyamide.
Resistant to oils and greases.
(1)(2) Stainless steel friction adjusting screw (AISI 304).
(3) Pivot pin cap in PA6.
(4) Galvanised steel pin.
Working temperature from +65° to -10°.

Code	la	lb	A	B	H	h	h1	d2	d1	F1(N)	F2(N)
47006604201	32	25,5	45	38	13,5	6	7,5	9	4,5(M04)	700	1400
47006606201	47,5	38	63,5	58	18,5	8,5	11,5	12,5	6,5(M06)	1500	2250

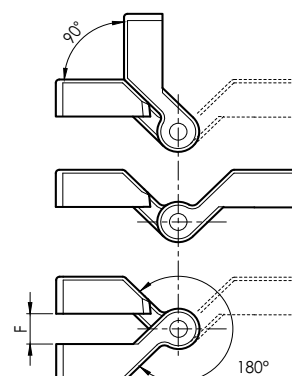
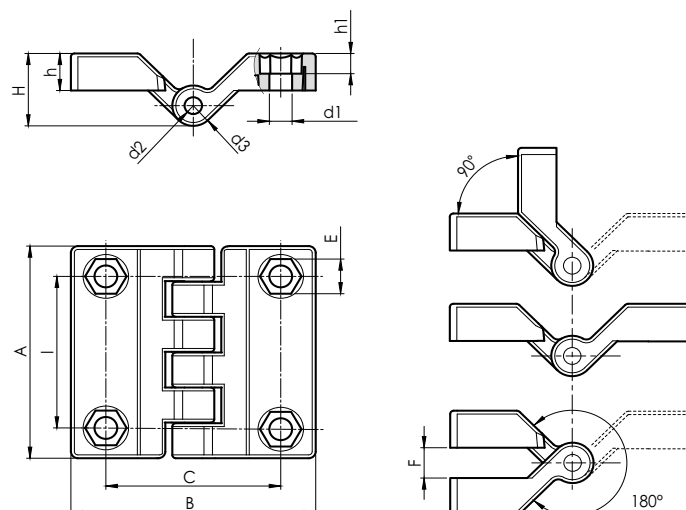


470066 V FLAT HINGE WITH LOWERED PIVOT PIN AND THROUGH HOLES



Reinforced polyamide.
Resistant to oils and greases.
Galvanised steel pin.
Hole for hex head screw UNI 5727.
Working temperature from +135° to -30°.

Code	I	C	A	B	E	F	h	h1	H	d2	d3	d1
47006607101	45	50	63	70	10	9	11	6	21,5	5	12	6,5





Reinforced polyamide.

Resistant to oils and greases.

Galvanised steel pin.

(1) Pin cap in PA6.

(2) Hole cover cap in reinforced PA6.

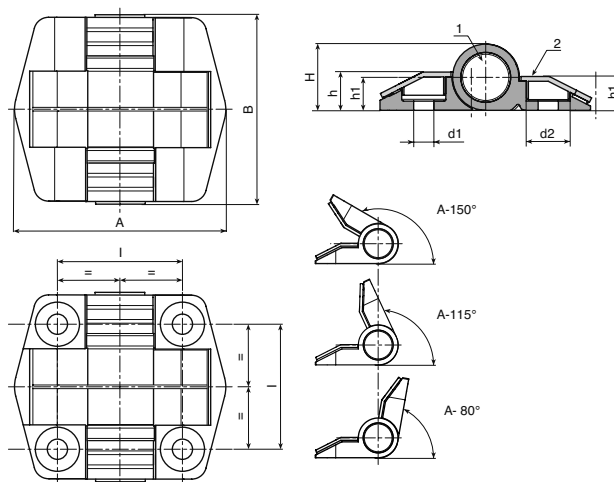
The springs that act on the pivot pin have three torque calibrations: 0.7 Nm, 1.1 Nm and 1.7 Nm.

The preset detent positions are: 80° - 115° - 150°.

* Version of the hinge without springs with free movement to 180°.

Working temperature from +65° to -10°.

Code	I	A°	Nm	A	B	H	h	h1	d1	d2
47006605301	34	-	-	51	57	18	10	9	5,5	10,5
47006605302	34	80°	0,7	51	57	18	10	9	5,5	10,5
47006605303	34	80°	1,1	51	57	18	10	9	5,5	10,5
47006605304	34	80°	1,7	51	57	18	10	9	5,5	10,5
47006605305	34	115°	0,7	51	57	18	10	9	5,5	10,5
47006605306	34	115°	1,1	51	57	18	10	9	5,5	10,5
47006605307	34	115°	1,7	51	57	18	10	9	5,5	10,5
47006605308	34	150°	0,7	51	57	18	10	9	5,5	10,5
47006605309	34	150°	1,1	51	57	18	10	9	5,5	10,5
47006605310	34	150°	1,7	51	57	18	10	9	5,5	10,5



Die-cast zamak alloy (zinc, aluminium and copper alloy).

(1) Black epoxy powder coated (RAL 9011) or galvanised.

(2) Galvanised steel threaded stud (thread tolerance 6g).

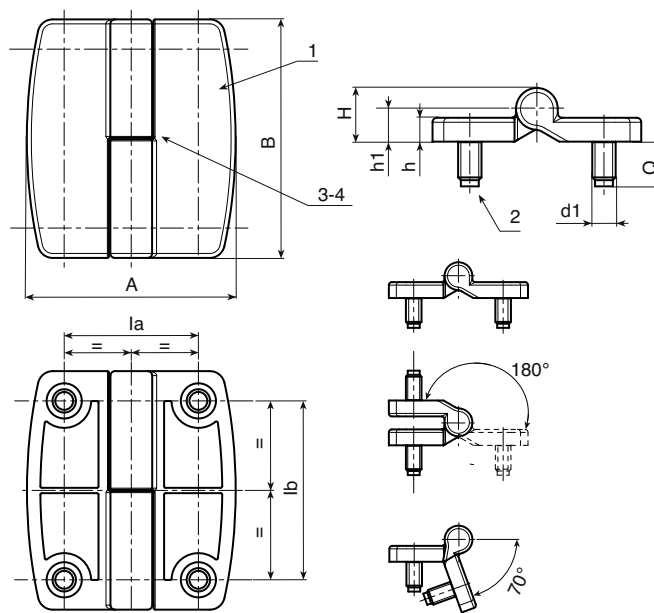
(3) Stainless steel hinge pivot pin (Aisi 304).

(4) Stainless steel separating washer (Aisi 304) inserted between the two knuckles.

The hinge can be supplied for mounting doors that swing open to the right or for doors that swing open to the left.

Working temperature from +200° to -30°.

Code	la	lb	A	B	h	H	h1	d1(6g)	Q	Swing open	Finish
47006607401	45	60	70	80	8	18	11	M08	14	Right	Black coated
47006607402	45	60	70	80	8	18	11	M08	15	Left	Black coated
47006607501	45	60	70	80	8	18	11	M08	14	Right	Galvanised
47006607502	45	60	70	80	8	18	11	M08	15	Left	Galvanised



470066 AS ASYMMETRICAL FLAT ZAMAK HINGE WITH THREADED STUD



Die-cast zamak alloy (zinc, aluminium and copper alloy).

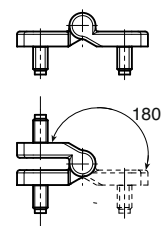
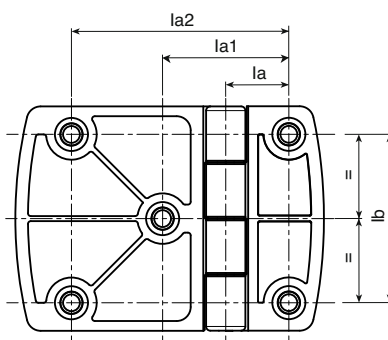
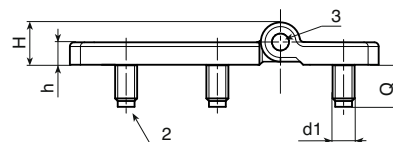
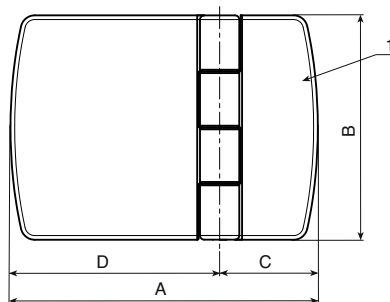
(1) Black epoxy powder coated (RAL 9011) or galvanised.

(2) Galvanised steel threaded stud (thread tolerance 6g).

(3) Stainless steel hinge pivot pin (AISI 304).

Working temperature from +200° to -30°.

Code	la	la1	la2	lb	A	B	C	E	h	H	d1(6g)	Q	Finish
47006610601	22,5	45	77,5	60	110	80	34	76	8	18	M08	14	Black coated
47006610701	22,5	45	77,5	60	110	80	34	76	8	18	M08	14	Galvanised



470067 BASIC PUNCHED STEEL HINGE WITH THROUGH HOLES



Steel punched and bent.

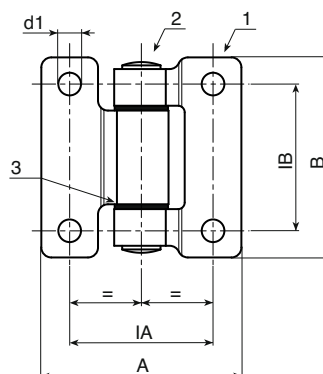
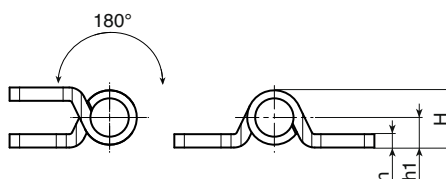
(1) Black epoxy powder coated (RAL 9011) or galvanised.

(2) Stainless steel hinge pivot pin (AISI 304).

(3) Natural PA6 separating washer inserted between the two knuckles.

Working temperature from -40° to +180°.

Code	A	B	IA	IB	H	h	h1	d1	Finish
47006706301	60	60	40	40	17	4	9	6,5	Black coated
47006706401	60	60	40	40	17	4	9	6,5	Galvanised



470067 EX VERTICAL ZAMAK HINGE WITH EXTENSION



Code	Ib	IB	A	a	B	b	H	Ht	h	h1	h2	h3	d1	Finish
47006702101	54	34	19,5	14	60	66	19	-	5	12,5	9	6	5,3	Black coated
47006702102	54	34	19,5	14	60	66	-	25	5	12,5	9	6	5,3	Black coated
47006702201	54	34	19,5	14	60	66	19	-	5	12,5	9	6	5,3	Galvanised
47006702202	54	34	19,5	14	60	66	-	25	5	12,5	9	6	5,3	Galvanised

(1)(2)(5) Die-cast zamak alloy (zinc, aluminium and copper alloy).

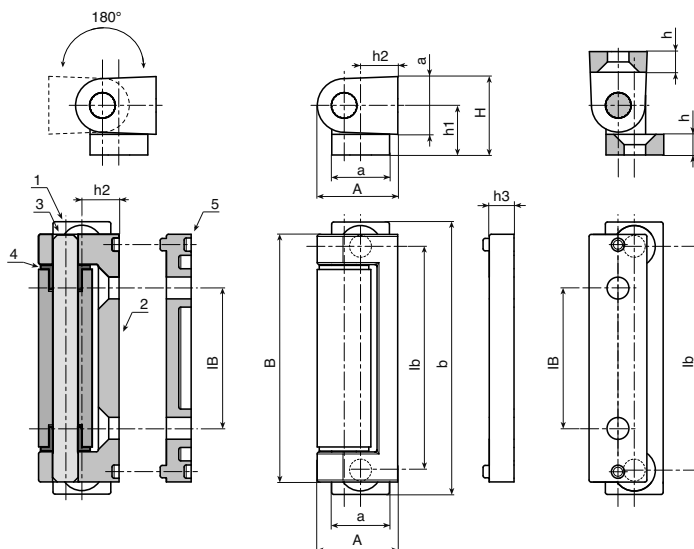
Black epoxy powder coated (RAL 9011) or galvanised.

(3) Stainless steel hinge pivot pin (AISI 304).

(4) Natural PA6 spacer bush.

The hinge is delivered with the pivot pin unassembled, as it must be removed in any case before mounting on the door.

Working temperature from +200° to -30°.



470067 MN VERTICAL ZAMAK HINGE WITH SINGLE THREADED MOUNT



Code	I	Ia	A	B	C	E	F	d1	Finish
47006702501	32	12	14	50	19	24	17,5	M06	Black coated
47006702601	32	12	14	50	19	24	17,5	M06	Galvanised

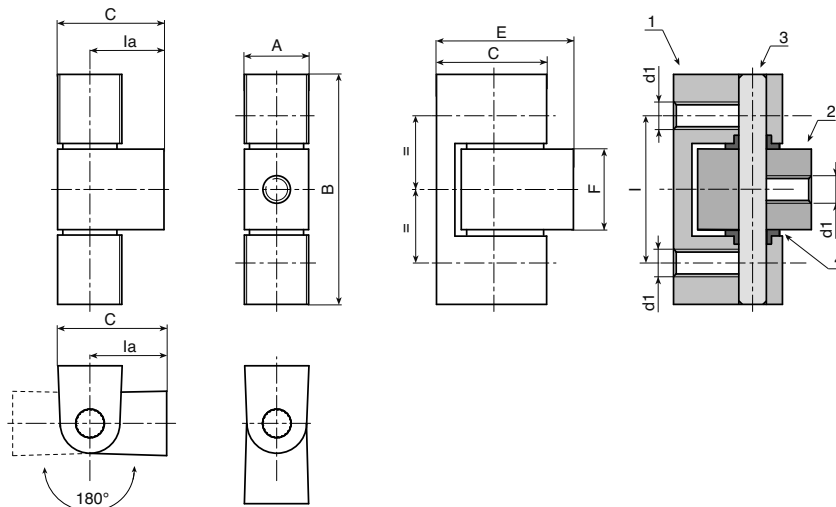
(1)(2) Die-cast zamak alloy (zinc, aluminium and copper alloy).

Black epoxy powder coated (RAL 9011) or galvanised.

(3) Stainless steel hinge pivot pin (AISI 304).

(4) Natural PA6 spacer bush.

Working temperature from +200° to -30°.

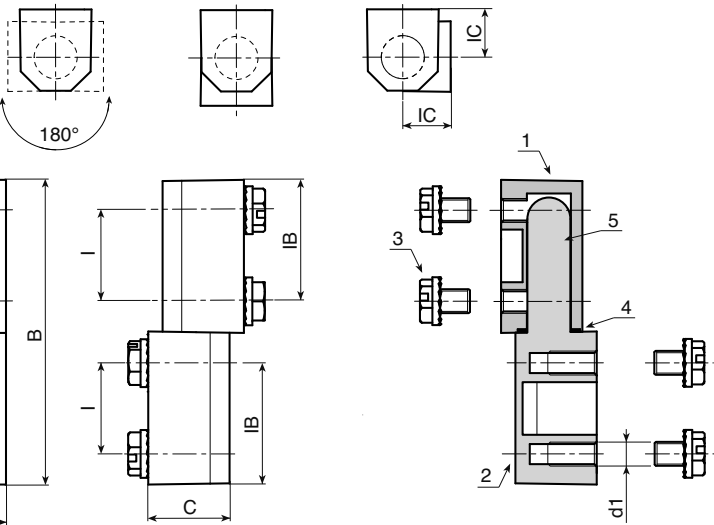


470067 DS

BASIC VERTICAL LIFT-OFF HINGE



Code	I	IB	IC	A	B	C	d1	Finish
47006702701	19	25,5	10	14	64,5	17	M05	Black coated
47006702801	19	25,5	10	14	64,5	17	M05	Galvanised



- (1)(2) Die-cast zamak alloy (zinc, aluminium and copper alloy).
Black epoxy powder coated (RAL 9011) or galvanised.
 - (3) 4 galvanised steel screws M05x06 with toothed lock washer.
 - (4) Black oxide treated spacer washer.
 - (5) Die-cast zamak pivot pin.
- Working temperature from +200° to -30°.

Furniture accessories

We have an extensive range of furniture accessories, from ferrules of various shapes, stops for chairs and tables, height regulators, tube connectors, cable organizers and many more. In this product summary you will find the most common items, but if you do not find the product you need, do not hesitate to contact us.



Detailed information about these products and others on our website
www.tecnodin.es

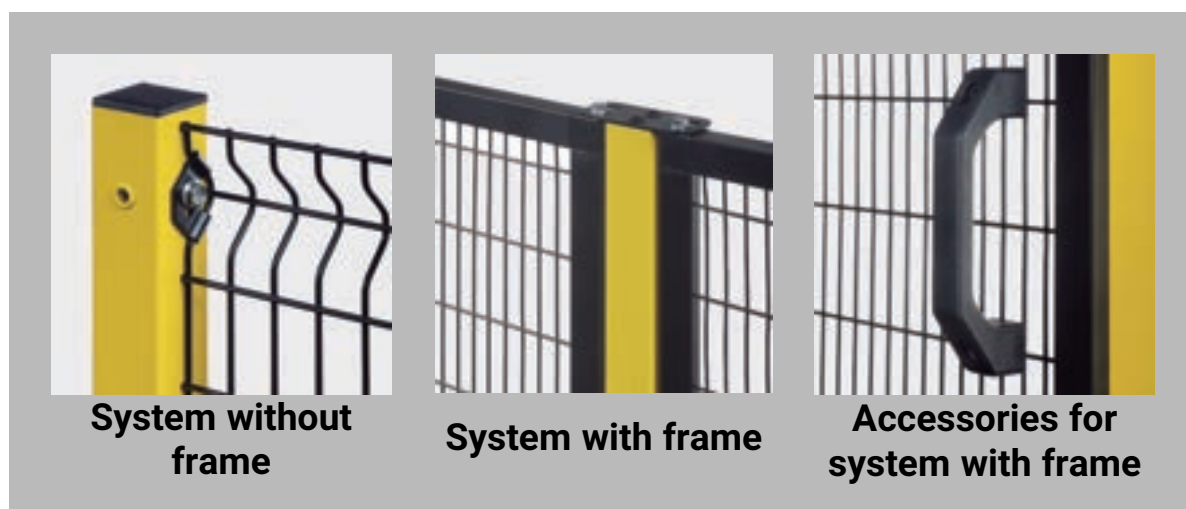
Self-aligning bearing supports



Safety fences

The safety fence system SZ was developed with the aim of meeting the new needs of companies in terms of staff safety. The system complies with the new European guidelines ISO 13857.

A quick and effortless installation, even on uneven floors is possible with little staff.

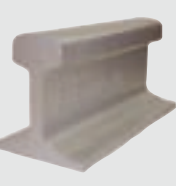


Check product details at www.tecnodin.es

Wheels & Castors

Everything for the movement of large loads

- Single flanged wheels
- Double flanged wheels
- Direct bond wheels
- Nylon wheels
- Channel Wheels - Flat Tread
- Rails
- Polyurethane wheels
- Rubber tyred wheels

	Cast iron untyred wheels Diameters Ø75-350mm Load 400-5700Kg		Steel double flanged rail wheels Diameters Ø75-600mm Load 1350-30900Kg		Polyurethane tyred single-flanged rail wheels Diameters Ø100-200mm Load 450-1400Kg
Serie C		Serie SDF		Serie SFH	
	Cast iron double flanged rail wheels Diameters Ø130-300mm Load 650-2300Kg		Cast iron flat tread rail wheels Diameters Ø130-300mm Load 1200-4000Kg		Polyurethane tyred wheels Diameters Ø75-460mm Load 300-5200Kg
Serie CDF		Serie CFT		Serie H	
	Cast iron single flanged rail wheels Diameters Ø63-300mm Load 200-2300Kg		Single flange "I" beam & channel wheels - Radius tread Diameters Ø55-175mm Load 160-1500Kg		Single flange "I" beam & channel wheels - Flat tread Diameters Ø55-200mm Load 370-2000Kg
Serie CSF		Serie SFR		Serie SSFF	
	Steel flat tread rail wheels Diameters Ø75-600mm Load 2300-46300Kg		Pneumatic tyred castor twin wheel Diameters Ø535mm Load Up to 2100Kg		QZ series with various wheels Diameters Ø200-380mm Load 3100-4200Kg
Serie SFT		Serie WG		Serie QZ	
	Rubber tyred 'Press-on Band' Diameters Ø380-460mm Load 1240-1470Kg		Rail Diferent shapes, Bridge & Crane rail		Jacking Units Wheel Diameters Ø150-300mm Load up to 2500Kg
Serie PR		Raíles		Serie JU	

Air amplifiers and accessories

If you are looking to transport light materials, extract gases, smoke or air, or simply quickly cool a hot area of a product, then airmovers provide an easy and cost-effective means of achieving the objective. We have fixed opening airmovers, variable opening airmovers and other related products such as air curtains, air guns, air rings, airmiser nozzles, vortex tubes and antistatic products.



Fixed gap air amplifier AM10



Fixed gap air amplifier AM35



Fixed gap air amplifier AM40



Fixed gap air amplifier AM125



Adjustable air amplifier AM60A



Stainless steel adjustable airmover SS40A



Acetal air amplifier AA60A



Stainless steel ring vac RV3SS



Universal joint UJ



Ring blade air dryer RB2AL



Blower gun AG32



Reversible blow gun CG22



Airmiser Nozzle A4



Liquid drum pump DP175



Vortex tubes CG4AX



Cold air guns CG4



Electrical Cabinet cooler EC



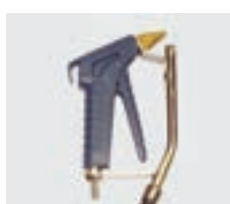
Extractor - Ventilator EV4



Strip Airmover SE



Antistatic air nozzle bars AN150



Ionised airgun 4100



Anti-static eliminator bars



Power Unit PU502



Static meter 710

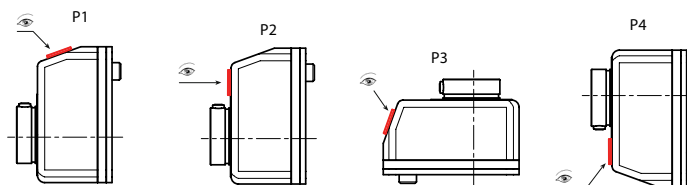


Anti-static extractor ventilator AEV4

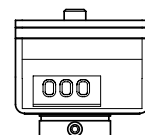
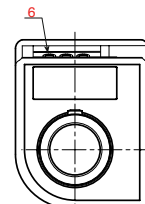
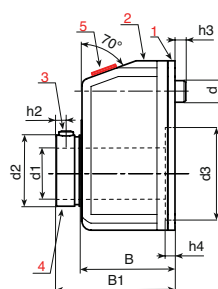
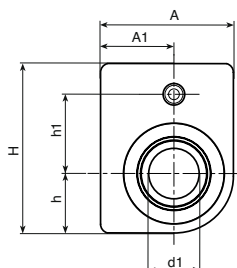
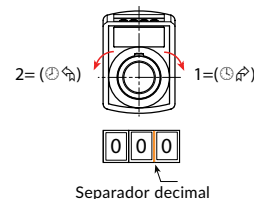
Check product details at www.tecnodin.es



Ventana de visualización



Sentido de giro


Materials:

- 1-2. Numerator case made of glass fiber reinforced orange polyamide RAL 2004. Resistant to oils and greases.
3. Shaft grub screw in C45 black-oxide treated steel or AISI 303 stainless steel.
4. Shaft housing in black-oxide treated steel or AISI 303 stainless steel.
5. Window made of Polymethylmethacrylate (PMMA).
6. Black polyamide numbering rings, white printed numbers with a height of approx. 4mm.

Working temperature between +80°C to 0°C.

Each numerator comes with a base case seal in black polyurethane foam.

It can be supplied with the shaft in stainless steel.

Code	H	A	h	h1	h2	h3	h4	A1	B	B1	d	d2	d3	d1(H7)	GR
470091xyz00	33	22	9,3	18	2,5	5	3,4	12,7	21	26	6	13,8	16	10	7/5
470091xyz01	33	22	9,3	18	2,5	5	3,4	12,7	21	26	6	13,8	16	10	10
470091xyz02	33	22	9,3	18	2,5	5	3,4	12,7	21	26	6	13,8	16	10	12/5
470091xyz03	33	22	9,3	18	2,5	5	3,4	12,7	21	26	6	13,8	16	10	15
470091xyz04	33	22	9,3	18	2,5	5	3,4	12,7	21	26	6	13,8	16	10	17/5
470091xyz05	33	22	9,3	18	2,5	5	3,4	12,7	21	26	6	13,8	16	10	20
470091xyz06	33	22	9,3	18	2,5	5	3,4	12,7	21	26	6	13,8	16	10	25
470091xyz07	33	22	9,3	18	2,5	5	3,4	12,7	21	26	6	13,8	16	10	30
470091xyz08	33	22	9,3	18	2,5	5	3,4	12,7	21	26	6	13,8	16	10	35
470091xyz09	33	22	9,3	18	2,5	5	3,4	12,7	21	26	6	13,8	16	10	40
470091xyz10	33	22	9,3	18	2,5	5	3,4	12,7	21	26	6	13,8	16	10	50
470091xyz11	33	22	9,3	18	2,5	5	3,4	12,7	21	26	6	13,8	16	10	60
470091xyz12	33	22	9,3	18	2,5	5	3,4	12,7	21	26	6	13,8	16	10	80
470091xyz13	33	22	9,3	18	2,5	5	3,4	12,7	21	26	6	13,8	16	10	100

For ratios "**/*" the arithmetic values are not displayed.

For example with a GR=17/5=17.5 after three full turns it will show 0052.

Gear ratio (GR):

The gear ratio establishes which number must appear on the counter after making a full turn (360°).

For example, by choosing a gear ratio of 15, after one revolution on the window you will see digits 015.

The position of the decimal point will help reduce the measure, because, choosing one decimal place, the 015 becomes 01.5.

Mounting and reading position (y):

The numerator block can be applied in four different positions.

P1 y=1: Vertical, with numbers on upper side.

P2 y=2: Vertical, with numbers on vertical side.

P3 y=3: Horizontal, with numbers on inclined side.

P4 y=4: Horizontal, with numbers on vertical side.

Rotation direction (x):

x=1: increase of values with clockwise rotation.

x=2: increase of values with counter clockwise rotation.

Decimal point (z):

In this case, with three digits, the decimal position is available in these formats:

z=0 - no decimal point indicated (000).

z=1 - one digit after decimal point (00,0).

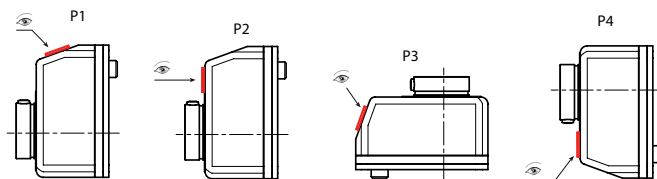
z=2 - two digits after decimal point (0,00).

In your orders you must indicate, for a given gear ratio (GR), the rotation direction (x), the type of mounting/reading (y) and the decimal point (z).

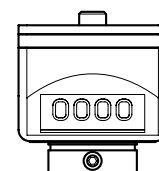
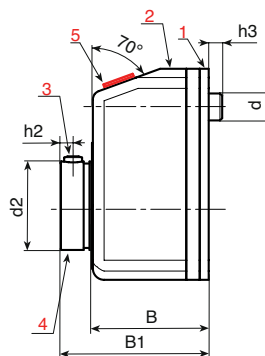
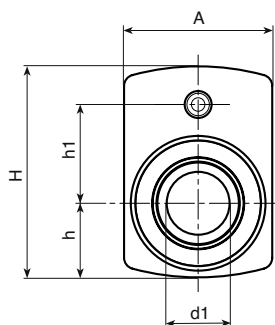
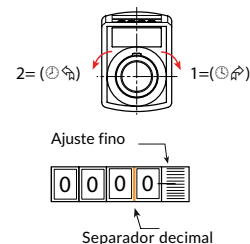
Example: For an indicator with 20 gear ratio, clockwise rotation (x=1), type of mounting/reading (y=2) and no decimal point indicated (z=0) the complete code is **47009112005**.



Ventana de visualización



Sentido de giro


Materials:

- 1-2. Numerator case made of glass fiber reinforced orange polyamide RAL 2004. Resistant to oils and greases.
3. Shaft grub screw in C45 black-oxide treated steel or AISI 303 stainless steel.
4. Shaft housing in black-oxide treated steel or AISI 303 stainless steel.
5. Window made of Polymethylmethacrylate (PMMA).
6. Black polyamide numbering rings, white printed numbers with a height of approx. of 4 mm.

Working temperature between +80°C to 0°C.

Each numerator comes with a base case seal in black polyurethane foam.

It can be supplied with the shaft in stainless steel.

Code	H	A	h	h1	h2	h3	B	B1	d	d2	d1(H7)	GR
470092xyz00	47	33	16,5	22	2,5	5	24	31	6	19,7	14	10
470092xyz01	47	33	16,5	22	2,5	5	24	31	6	19,7	14	12/5
470092xyz02	47	33	16,5	22	2,5	5	24	31	6	19,7	14	15
470092xyz03	47	33	16,5	22	2,5	5	24	31	6	19,7	14	17/5
470092xyz04	47	33	16,5	22	2,5	5	24	31	6	19,7	14	20
470092xyz05	47	33	16,5	22	2,5	5	24	31	6	19,7	14	25
470092xyz06	47	33	16,5	22	2,5	5	24	31	6	19,7	14	30
470092xyz07	47	33	16,5	22	2,5	5	24	31	6	19,7	14	35
470092xyz08	47	33	16,5	22	2,5	5	24	31	6	19,7	14	40
470092xyz09	47	33	16,5	22	2,5	5	24	31	6	19,7	14	50
470092xyz10	47	33	16,5	22	2,5	5	24	31	6	19,7	14	60
470092xyz11	47	33	16,5	22	2,5	5	24	31	6	19,7	14	80
470092xyz12	47	33	16,5	22	2,5	5	24	31	6	19,7	14	100

For ratios "*/*" the arithmetic values are not displayed.

For example with a GR=17/5=17.5 after three full turns it will show 0052.

Gear ratio (GR):

The gear ratio establishes which number must appear on the counter after making a full turn (360°).

For example, by choosing a gear ratio of 15, after one revolution on the window you will see digits 0015.

The position of the decimal point will help reduce the measure, because, choosing one decimal place, the 0015 becomes 001,5.

Mounting and reading position (y):

The numerator block can be applied in four different positions.

P1 y=1: Vertical, with numbers on upper side.

P2 y=2: Vertical, with numbers on vertical side.

P3 y=3: Horizontal, with numbers on inclined side.

P4 y=4: Horizontal, with numbers on vertical side.

Rotation direction (x):

x=1: increase of values with clockwise rotation.

x=2: increase of values with counter clockwise rotation.

Decimal point (z):

In this case, with four digits, the decimal position is available in these formats:

z=0 - no decimal point indicated (0000).

z=1 - one digit after decimal point (000,0).

z=2 - two digits after decimal point (00,00).

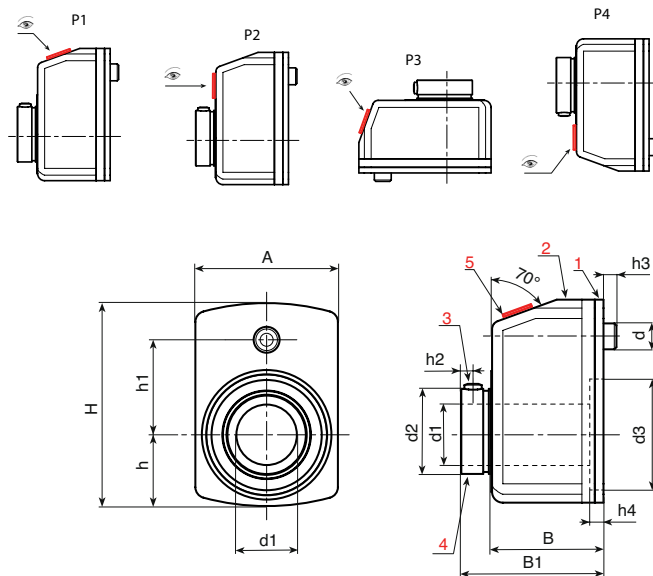
z=3 - three digits after decimal point (0,000).

In your orders you must indicate, for a given gear ratio (GR), the rotation direction (x), the type of mounting/reading (y) and the decimal point (z).

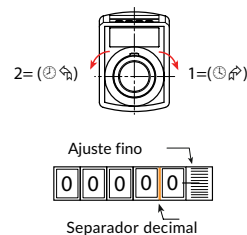
Example: For an indicator with a 20 gear ratio, clockwise rotation (x=1), mounting/reading position (y=2) and no decimal point indicated (z=0) the complete code is **47009212005**.



Ventana de visualización



Sentido de giro


Materials:

- (1-2) Numerator case: Glass fiber reinforced orange polyamide RAL 2004. Resistant to oils and greases.
- 3. Shaft grub screw in C45 black-oxide treated steel or AISI 303 stainless steel.
- 4. Shaft housing in black-oxide treated steel or AISI 303 stainless steel.
- 5. Window made of Polymethylmethacrylate (PMMA).
- 6. Black polyamide numbering rings, white printed numbers with a height of approx. of 4 mm.

Working temperature between +80°C a 0°C.

Each numerator comes with a base case seal in black polyurethane foam.

It can be supplied with the shaft in stainless steel.

Code	H	A	h	h1	h2	h3	h4	B	B1	d	d2	d3	d1(H7)	GR
470094xyz00	67,5	48	25,5	30	3,5	6	2	30	38,5	6	27	40	20	10
470094xyz01	67,5	48	25,5	30	3,5	6	2	30	38,5	6	27	40	20	12/5
470094xyz02	67,5	48	25,5	30	3,5	6	2	30	38,5	6	27	40	20	15
470094xyz03	67,5	48	25,5	30	3,5	6	2	30	38,5	6	27	40	20	15/75
470094xyz04	67,5	48	25,5	30	3,5	6	2	30	38,5	6	27	40	20	17/5
470094xyz05	67,5	48	25,5	30	3,5	6	2	30	38,5	6	27	40	20	20
470094xyz06	67,5	48	25,5	30	3,5	6	2	30	38,5	6	27	40	20	25
470094xyz07	67,5	48	25,5	30	3,5	6	2	30	38,5	6	27	40	20	30
470094xyz08	67,5	48	25,5	30	3,5	6	2	30	38,5	6	27	40	20	39/375
470094xyz09	67,5	48	25,5	30	3,5	6	2	30	38,5	6	27	40	20	40
470094xyz10	67,5	48	25,5	30	3,5	6	2	30	38,5	6	27	40	20	50
470094xyz11	67,5	48	25,5	30	3,5	6	2	30	38,5	6	27	40	20	60
470094xyz12	67,5	48	25,5	30	3,5	6	2	30	38,5	6	27	40	20	78/75
470094xyz13	67,5	48	25,5	30	3,5	6	2	30	38,5	6	27	40	20	80
470094xyz14	67,5	48	25,5	30	3,5	6	2	30	38,5	6	27	40	20	100

For ratios "*/" the arithmetic values are not displayed.

For example, by choosing a gear ratio of GR=78/75=78,75 after three full turns it will show 00236.

Gear ratio (GR):

The gear ratio establishes which number must appear on the counter after making a full turn (360°).

For example, by choosing a gear ratio of 15, after one revolution on the window you will see digits 00015.

The position of the decimal point will help reduce the measure, because, choosing one decimal place, the 00015 becomes 0001,5.

Mounting and reading position (y):

The numerator block can be applied in four different positions.

P1 y=1: Vertical, with numbers on upper side.

P2 y=2: Vertical, with numbers on vertical side.

P3 y=3: Horizontal, with numbers on inclined side.

P4 y=4: Horizontal, with numbers on vertical side.

Rotation direction (x):

x=1: increase of values with clockwise rotation.

x=2: increase of values with counter clockwise rotation.

Decimal point (z):

Teniendo en cuenta que este contador tiene 5 dígitos, la posición decimal puede ser:

z=0 - no decimal point indicated (00000).

z=1 - one digit after decimal point (0000,0).

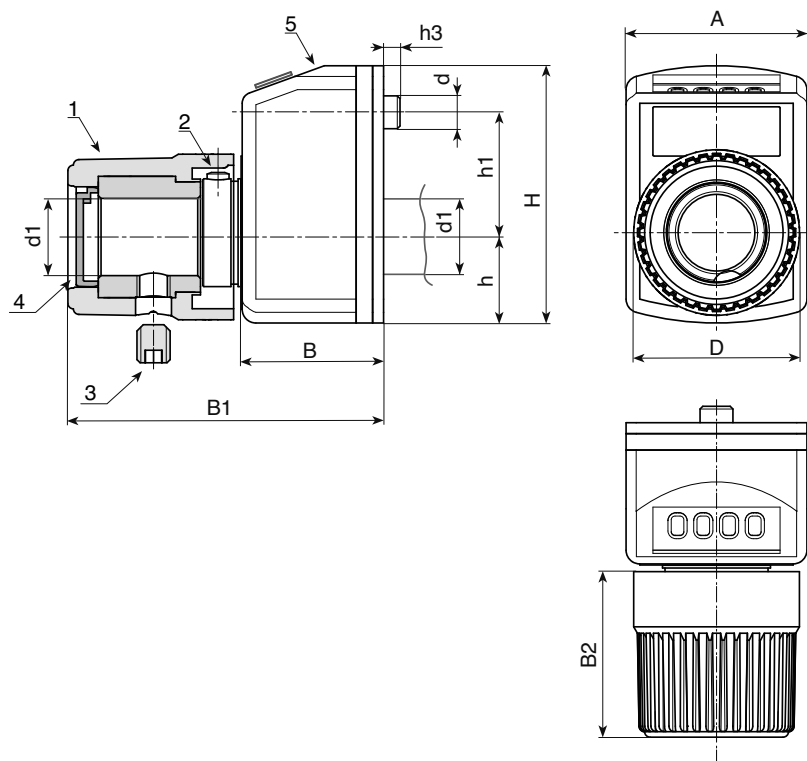
z=2 - two digits after decimal point (000,00).

z=3 - three digits after decimal point (00,000).

z=4 - four digits after decimal point (0,0000).

In your orders you must indicate, for a given gear ratio (GR), the rotation direction (x), the type of mounting/reading (y) and the decimal point (z).

Example: For an indicator with 20 gear ratio, clockwise rotation (x=1), type mounting/reading (y=2) and no decimal point indicated (z=0) the complete code is **47009412005**.



Code	A	H	B	B1	B2	h	h1	h3	D	d	d1 H10	GR
470093xyz00	33	47	24	55	32	16,5	22	5	30	6	14	10
470093xyz01	33	47	24	55	32	16,5	22	5	30	6	14	12/5
470093xyz02	33	47	24	55	32	16,5	22	5	30	6	14	15
470093xyz03	33	47	24	55	32	16,5	22	5	30	6	14	17/5
470093xyz04	33	47	24	55	32	16,5	22	5	30	6	14	20
470093xyz05	33	47	24	55	32	16,5	22	5	30	6	14	25
470093xyz06	33	47	24	55	32	16,5	22	5	30	6	14	30
470093xyz07	33	47	24	55	32	16,5	22	5	30	6	14	35
470093xyz08	33	47	24	55	32	16,5	22	5	30	6	14	40
470093xyz09	33	47	24	55	32	16,5	22	5	30	6	14	50
470093xyz10	33	47	24	55	32	16,5	22	5	30	6	14	60
470093xyz11	33	47	24	55	32	16,5	22	5	30	6	14	80
470093xyz12	33	47	24	55	32	16,5	22	5	30	6	14	100

Materials:

1. Control knob made of black reinforced polyamide.
2. Black-oxide treated grub screw DIN 914 for fastening the bush to the shaft.
3. Black-oxide treated grub screw DIN 914 for fastening the knob to the shaft.
4. Tapa central del pomo en color naranja RAL 2004.
5. Numerator case made of glass fiber reinforced orange polyamide RAL 2004. Resistant to oils and greases.

Fixing system:

The block and the control knob are not attached to each other. First of all, the numerator block is secured to the shaft through the grub screw (2), then the control knob is mounted on the shaft by means of grub screw (3).

For the technical characteristics (xyz) of the numerator block, see product 470092.

Machine and Fixture Elements

Spring Plungers

EH 22030.
Spring Plungers
with ball and internal hexagon



EH 22030.
Spring Plungers
with pin and internal hexagon



EH 22030.
Spring Plungers
headed, with ball and internal hexagon



EH 22031.
Spring Plungers
with moveable ball and internal hexagon



EH 22040.
Spring Plungers
plastic



EH 22050.
Spring Plungers
with ball and slot



EH 22050.
Spring Plungers
with ceramic ball and slot, stainless steel A4



EH 22050.
Spring Plungers
with pin and slot



EH 22050.
Spring Plungers
headed, with ball and slot



EH 22051.
Spring Plungers
with moveable ball and slot



EH 22060.
Spring Plungers
with internal hexagon



EH 22060.
Spring Plungers
with internal hexagon and seal



EH 22070.
Spring Plungers
smooth



EH 22070.
Spring Plungers
long



EH 22080.
Spring Plungers
smooth, with collar and ball



EH 22080.
Spring Plungers
smooth, long, with collar and ball



EH 22080.
Spring Plungers
smooth, with collar and ball, self-clamping



EH 22080.
Spring Plungers
smooth, with collar and pin



EH 22080.
Spring Plungers
smooth, without collar



EH 22081.
Spring Plungers
smooth, without collar, with moveable ball



EH 22082.
Holders
for spring plungers



EH 22090.
Spring Plungers
double-sided



EH 22100.
Spring Bodies



EH 2B020.
Spring Plungers
with pin and slot - INCH



Machine and Fixture Elements

EH 2B030.

Spring Plungers
with pin and internal hexagon
- INCH



EH 2B050.

Spring Plungers
with ball and slot - INCH



EH 2B080.

Spring Plungers
smooth, with collar and ball,
self-clamping - INCH



Index Plungers / Index Bolts

EH 22110.

Index Plungers Mini
Indexes



EH 22110.

Index Plungers Mini
Indexes
basic type



EH 22110.

Index Plungers Mini
Indexes
stainless steel



EH 22110.

Index Plungers Compact
with hexagon collar



EH 22110.

Index Plungers Compact
with hexagon collar and
locking



EH 22110.

Index Plungers Compact
with hexagon collar, with
T-handle



EH 22110.

Index Plungers Compact
with hexagon collar and
locking, with T-handle



EH 22110.

Index Plungers
with mounting flange,
horizontal



EH 22110.

Mounting Blocks
for index bolts and index
plungers, die-cast



EH 22110.

Locating Bushings
for index bolts and index
plungers



EH 22110.

Positioning Bushings
for index bolts and index
plungers



EH 22120.

Index Plungers
with hexagon collar



EH 22120.

Index Plungers
with hexagon collar, stainless
steel



EH 22120.

Index Plungers
with hexagon collar and
locking



EH 22120.

Index Plungers
with hexagon collar and
locking, stainless steel



EH 22120.

Index Plungers
without hexagon collar



EH 22120.

Index Plungers
without hexagon collar,
stainless steel



EH 22120.

Index Plungers
threadless, weldable



EH 22120.

Index Plungers
with hexagon collar, short



EH 22120.

Distance Collars
for index plungers



Machine and Fixture Elements

EH 22120.
Index Plungers
with mounting flange



EH 22120.
Index Plungers
simple finish



EH 22120.
Index Plungers
for thin-walled pieces



EH 22120.
Index Plungers
with pull-ring



EH 22122.
Index Plungers
with release lock



EH 22122.
Index Plungers
with rapid locking head



EH 22120.
Index Bolts



EH 22120.
Mounting Blocks
for index bolts and index
plungers



EH 22120.
Index Bolts
with mounting flange



EH 22120.
Index Bolts
with mounting flange,
horizontal



EH 22121.
Index Bolts
simple finish



EH 22130.
Precision Index Plungers
with cylindrical pin



EH 22130.
Precision Index Plungers
with tapered pin



Lateral Spring Plungers

EH 22140.
Lateral Spring Plungers



EH 22150.
Lateral Plungers
smooth, without seal



EH 22150.
Lateral Plungers
smooth, with seal



EH 22150.
Lateral Plungers
with plastic spring and pin



EH 22150.
Lateral Plungers
smooth, without seal, with
female thread



EH 22150.
Lateral Plungers
smooth, with seal, with
female thread



EH 22150.
**Eccentric Mounting
Bushings**
for lateral plungers, smooth



EH 22150.
Lateral Plungers
with thread, without seal



Machine and Fixture Elements

Lifting Pins

EH 22330.
Ball Lock Connectors
self-locking, with holder



EH 22330.
Ball Lock Connectors
self-locking, with holder,
compact construction



EH 22340.
Ball Lock Connectors
self-locking, with holding rings



EH 22350.
Lifting Pins
self-locking



EH 22350.
Lifting Pins
self-locking, stainless steel



EH 22350.
Locating Bushings
for lifting pins



EH 22350.
Locating Bushings, plain
for lifting pins



EH 22350.
Locating Bushings with Seal, plain
for lifting pins



EH 22351.
Lifting Pins
self-locking, with handle



EH 22352.
Threaded Lifting Pins
self-locking



Ball Lock Pins

EH 22340. /EH 22350.
Ball Lock Pins
self-locking, with T-handle



EH 22340. /EH 22350.
Ball Lock Pins
self-locking, with L-handle



EH 22340. /EH 22350.
Ball Lock Pins
self-locking, with button
handle



EH 22340. /EH 22350.
Ball Lock Pins
self-locking, with safety
handle



EH 22360.
Clamping Pins
self-locking, with span
compensation



EH 22370. /EH 22380.
Ball Lock Pins
self-locking, with standard
handle



EH 22390.
Ball Lock Pins
self-locking, with standard
handle, titanium



EH 22370. /EH 22380.
Ball Lock Pins
self-locking, with elastic grip
handle



Machine and Fixture Elements

EH 22370.

Ball Lock Pins
self-locking, with combination
handle



EH 22380.

Ball Lock Pins
self-locking, with combination
handle, precipitation-
hardened



EH 22370. /EH 22380.

Ball Lock Pins
self-locking, with adjustable
handle



EH 22400.

Socket Pins
with spring-loaded balls



EH 22400.

Locating Bushings
for ball lock pins and socket
pins



EH 22400.

Locating Bushings
with flange, for ball lock pins
and socket pins



EH 22400.

Retaining Cables



EH 22410. /EH 22420.

Clamp Lock Pins
with button handle



EH 4210.

Ball Lock Pins
single acting - complies with
NASM / MS17984



EH 4211.

Ball Lock Pins
single acting - complies with
NASM / MS17985



EH 4212.

Ball Lock Pins
single acting - complies with
NASM / MS17986



EH 4213.

Ball Lock Pins
single acting - complies with
NASM / MS17987



Grub Screws / Thrust Pads

EH 22540.

Grub Screws
DIN 6332 with thrust point



EH 22560.

Thrust Pads
DIN 6311 and low model



EH 22570.

Thrust Pads
plastic



EH 22570.

Grub Screws
ball-headed



Mounting Pads / Fulcrum Screws

EH 22590.

Mounting Pads



EH 22590.

Mounting Pads
protected against slipping



EH 22590.

Mounting Pads
with fastening holes



EH 22591.

Fulcrum Screws



Machine and Fixture Elements

Support Legs

EH 22593.
Support Legs



EH 22593.
Support Legs
protected against slipping



EH 22594.
Support Legs
impact cushioning



Locating and Seating Elements

EH 22600.
Seating Elements
with plastic contact surface,
orienting



EH 22620.
Grippers round/square
with hard metal insert, ribbed



EH 22620.
Hard Metal Inserts
for locating hole



EH 22620.
Hard Metal Inserts
front mounting



EH 22620.
Hard Metal Inserts



EH 22630.
Locating and Seating Pins
DIN 6321



EH 22630.
Seating Pins
partially DIN 6321 (old norm)



EH 22630.
Locating Pins
with bore hole similar
to DIN 6321



EH 22630.
Locating Pins
with ball end



EH 22640.
Feet
DIN 6320 with threaded
shank



EH 22680.
Seating Pins
ribbed or pointed



EH 22680.
Seating Pins
pin shape



EH 22690.
Pins



EH 22690.
Seating Pins
adjustable



EH 22691.
Pins
with plastic contact surface



Machine and Fixture Elements

Ball Elements / Push Plungers

EH 22700.
Ball-Ended Thrust Screws
headed, ball protected
against rotating



EH 22700.
Ball-Ended Thrust Screws
headless, ball protected
against rotating



EH 22710.
Ball-Ended Thrust Screws
headed, round ball



EH 22710.
Ball-Ended Thrust Screws
headed, flat-faced ball



EH 22720.
Ball-Ended Thrust Screws
headless, round ball



EH 22720.
Ball-Ended Thrust Screws
headless, flat-faced ball



EH 22720.
Ball-Ended Thrust Screws
headless, with fine-pitch
thread



EH 22720.
Ball-Ended Thrust Screws
headless, short



EH 22720.
Ball-Ended Thrust Screws
headless, round ball and
hexalobular socket



EH 22720.
Ball-Ended Thrust Screws
headless, flat-faced ball and
hexalobular socket



EH 22760.
Thrust Screws
with brass pad



EH 22760.
Thrust Screws
with plastic pad



Self-Aligning Pads

EH 22730.
Self-Aligning Pads



EH 22730.
Self-Aligning Pads
with hard metal ball, ribbed



EH 22731.
Self-Aligning Pads
self-resetting



EH 22731.
Self-Aligning Pads
with hard metal ball, ribbed
and self-resetting



EH 22740.
Self-Aligning Pads
adjustable



EH 22741.
Self-Aligning Pads
adjustable, self-resetting



Machine and Fixture Elements

Expander® Sealing Plugs

EH 22880.
Expander® Sealing Plugs
body from case-hardened steel



EH 22880.
Expander® Sealing Plugs
body from stainless steel



EH 22880.
Setting Dies
for Expander® sealing plug



EH 22880.
Expander® Sealing Plugs
with pull-anchor



EH 22880.
Expander® Sealing Plugs
with elongated pull-anchor



EH 22880.
Distance Bushings
for Expander® sealing plugs
with elongated pull-anchor



EH 22880.
Assembly Tools
for Expander® sealing plugs
with pull-anchor



Swing Bolts

EH 22980.
Swing Bolts
DIN 444, form B



EH 22980.
Swing Bolts
DIN 444, form B, quality 8.8
high precision design



Rod Ends

EH 22982.
Rod Ends
DIN 12240-4, with male thread



EH 22982.
Rod Ends
DIN 12240-4, with female thread



Ball Casters

EH 22750.
Ball Casters
with sheet steel housing



EH 22750.
Tolerance Rings



EH 22750.
Ball Casters
with mounting elements



EH 22751.
Ball Casters
plastic



Clamping Elements

Nuts for T-Slots

EH 23010.
Nuts for T-Slots
DIN 508



EH 23010.
Nuts for T-Slots
DIN 508, semi-finished



EH 23010.
Nuts for T-Slots
DIN 508 with slip protection



EH 23020.
Nuts for T-Slots
extended



EH 23020.
Nuts for T-Slots
rhombus



EH 23020.
Nuts for T-Slots
rhombus, semi-finished



Clamping Screws

EH 23030.
T-Bolts
DIN 787



EH 23040.
Studs
DIN 6379 for T-nuts



EH 23040.
Studs
DIN 6379 b₁ long for T-nuts



EH 23040.
Studs
with internal hexagon, similar
to DIN 6379, for T-nuts



Spherical / Plain Washers

EH 23050.
Spherical Washers /
Conical Seats
DIN 6319



EH 23050.
Spherical Washers /
Conical Seats
similar to DIN 6319, stainless
steel



EH 23050.
Compact Spherical Washers /
Conical Seats
similar to DIN 6319



EH 23060.
Shaft / Plain Washers
DIN 6340 heat-treated



EH 23060.
Washers
high precision design



EH 23061.
Shaft / Plain Washers



Clamping Elements

Clamping Nuts

EH 23070.
Fixture Nuts
DIN 6330 (height 1,5 d)



EH 23080.
Collar Nuts
DIN 6331 (height 1,5 d)



EH 23080.
Collar Nuts with Conical Seat



EH 23090.
Extension Nuts
(height 3 d)



Precision Slot Nuts

EH 23100.
Drive Blocks
DIN 2079



EH 23110.
Fixed Slot Tenons



EH 23110.
Fixed Slot Tenons
with cylindrical fastening



EH 23110.
Centering Pins



EH 23110.
Centering Pins
stepped



EH 23120.
Loose Slot Tenons
DIN 6323



EH 23130.
Low Slot Tenons



Positioning Clamping Elements

EH 23111.
Positioning Clamping Pins



EH 23111.
Manual Handles
for positioning clamping pins



EH 23111.
Bushings
for positioning clamping pins



EH 23111.
Locating Bushings
for positioning clamping pins,
for press fit



EH 23111.
Locating Bushings
for positioning clamping pins,
for screw fit



Clamping Elements

Positioning Bushings

EH 23112.
Positioning Bushings
with collar, DIN 172 A



EH 23112.
Positioning Bushings
without collar, DIN 179 A



Clamps

EH 23140.
Clamps
DIN 6314 flat



EH 23150.
Clamps
DIN 6315 B forked



EH 23160.
Clamps
DIN 6316 with goose-neck



EH 23160.
Clamps
stepped



EH 23170.
Clamps
with nose, closed



EH 23180.
Clamps
with flat-faced ball, similar to
DIN 6314



EH 23180.
Clamps
with nose



EH 23190.
Clamps
with soft face, similar to DIN
6314



EH 23190.
Clamps
with exchangeable soft jaw



EH 23200.
Supporting Elements
for clamps



Straight Clamps, slotted

EH 23185.
Clamps
slotted, with adjustable
counter piece



EH 23185.
Clamps
slotted, with adjustable
counter piece, with T-bolt



EH 23185.
Clamps
slotted, with adjustable
counter piece, with stud



EH 23185.
Clamps
slotted, with adjustable
counter piece, with stud with
internal hexagon



Clamping Elements

EH 23330.

Vertical Toggle Clamps
with horizontal base



EH 23330.

Vertical Toggle Clamps
with vertical base



EH 23330.

Vertical Toggle Clamps
with vertical base and solid
support arm



EH 23330.

Vertical Toggle Clamps
with vertical base and safety
lock



EH 23330.

Vertical Toggle Clamps
with angle base



EH 23330.

Vertical Toggle Clamps
with angle base and safety
lock



EH 23330.

Vertical Toggle Clamps
with horizontal base and solid
support arm



EH 23330.

Vertical Toggle Clamps
with horizontal base and
safety lock



EH 23330.

Horizontal Toggle Clamps
with horizontal base



EH 23330.

Horizontal Toggle Clamps
with horizontal base /
increased holding force



EH 23330.

Horizontal Toggle Clamps
with horizontal base and solid
support arm



EH 23330.

Horizontal Toggle Clamps
with horizontal base and
safety lock



EH 23330.

Horizontal Toggle Clamps
with vertical base



EH 23330.

Horizontal Toggle Clamps
with vertical base and safety
lock



EH 23330.

Horizontal Toggle Clamps
with angle base



EH 23330.

**Toggle Clamps Push-Pull
Type**
with angle base



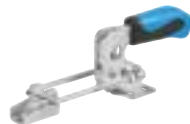
EH 23330.

**Toggle Clamps Push-Pull
Type**
with fastening thread



EH 23330.

Toggle Clamps Hook Type
with horizontal base



EH 23330.

Toggle Clamps Hook Type
vertical, with horizontal base



EH 23330.

Combination Clamps
with horizontal base



Supporting Elements

EH 23220.

Bedding Supports



EH 23220.

Supporting Elements



Clamping Elements

Floating Clamps

EH 23320.
Floating Clamps
compact construction,
combined clamping and
locking M 12



EH 23320.
Floating Clamps
compact construction,
separate clamping and
locking M 12



EH 23320.
Floating Clamps
combined clamping and
locking M 12



EH 23320.
Floating Clamps
separate clamping and
locking M 12



EH 23320.
Standard Clamping Jaws
for floating clamp M 12



EH 23320.
Clamping Jaws
for floating clamp M 12



EH 23320.
Floating Clamps
combined clamping and
locking M 16



EH 23320.
Clamping Jaws
for floating clamp M 16



Eccentric Clamping Elements

EH 23270.
Eccentric Clamping Clamps



EH 23270.
Eccentric Clamping Washers



EH 23271.
Eccentric Clamps



EH 23380.
Double Eccentric Levers
with fulcrum pin



EH 23390.
Eccentric Levers
with fulcrum pin



EH 23390.
Eccentric Quick Clamps
with female thread



EH 23390.
Eccentric Quick Clamps
with screw



EH 23400.
Fulcrum Pins



Clamping Elements

Retaining Catches

EH 24100.
Retaining Catches
one-sided



→ p. 556

EH 24100.
Retaining Catches
double-sided



→ p. 557

EH 24101.
Retaining Catches
wing grip, one-sided



→ p. 558

Standard Parts for Fixture Systems

EH 22290.
C-Washers
DIN 6372



EH 22540.
Grub Screws
DIN 6332 with thrust point



EH 22680.
Seating Pins
ribbed or pointed



EH 22680.
Seating Pins
pin shape



EH 22690.
Pins



EH 22700.
Ball-Ended Thrust Screws
headless, ball protected
against rotating



EH 22730.
Self-Aligning Pads



EH 22731.
Self-Aligning Pads
self-resetting



EH 22740.
Self-Aligning Pads
adjustable



EH 22741.
Self-Aligning Pads
adjustable with self-resetting



EH 23010.
Nuts for T-Slots
DIN 508



EH 23020.
Nuts for T-Slots
extended



EH 23020.
Nuts for T-Slots
rhombus



EH 23040.
Studs
DIN 6379 b₁ long for T-nuts



EH 23050.
Spherical Washers /
Conical Seats
DIN 6319



EH 23060.
Shaft / Plain Washers
DIN 6340 heat-treated



EH 23070.
Fixture Nuts
DIN 6330 (height 1,5 d)



EH 23080.
Collar Nuts
DIN 6331 (height 1,5 d)



EH 23080.
Collar Nuts with Conical
Seat



EH 23090.
Extension Nuts
(height 3 d)



EH 23110.
Fixed Slot Tenons
with cylindrical fastening



EH 23110.
Centering Pins



EH 23110.
Centering Pins
stepped



EH 23120.
Loose Slot Tenons
DIN 6323



Standard Parts for Fixture Systems

EH 23150.

Clamps
DIN 6315 B forked



EH 23180.

Clamps
with nose



EH 23700.

Clamping Element Systems



EH 23700.

Straight Clamps
long



EH 23700.

Intermediate Elements



EH 23700.

Base Elements



EH 23210.

Down-Hold Clamps
without clamping lever



EH 23280.

Stops
cylindrical



EH 23220.

Bedding Supports



EH 23220.

Supporting Elements



EH 23320.

Floating Clamps
compact construction,
combined clamping and
locking M 12



EH 23320.

Floating Clamps
compact construction,
separate clamping and
locking M 12



EH 23320.

Floating Clamps
combined clamping and
locking M 12



EH 23320.

Floating Clamps
separate clamping and
locking M 12



EH 23320.

Standard Clamping Jaws
for floating clamp M 12



EH 23320.

Clamping Jaws
for floating clamp M 12



EH 23310.

Down-Thrust Clamps
swivelling, size 25



EH 23310.

Down-Thrust Clamps
swivelling, size 40



EH 23310.

Down-Thrust Clamps
moveable, size 40



EH 23310.

Positioning Rings
for down-thrust clamp



EH 23310.

Height Adjusting Cylinders



EH 23690.

Compact Clamps



EH 23690.

Height Adapters
for compact clamp



Basic Elements

Base Elements

EH 1000.400 - EH 1000.500
Base Plates



EH 1000.800
Base Plates
overall dimensions same as
pallets DIN 55 201



EH 1002.100
Base Plates



EH 1100.300 - EH 1100.500
Base Plates



EH 1100.700 - EH 1103.500
Base Plates
overall dimensions same as
pallets DIN 55 201



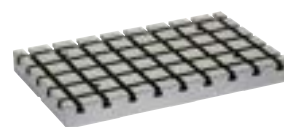
EH 1101.300 - EH 1101.500
Connecting Elements



EH 1102.100 - EH 1102.200
Base Plates



EH 1200.300 - EH 1200.500
Base Plates
V70eco



Clamping Angles

EH 1906.
Clamping Angles
semi-finished



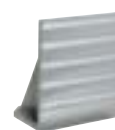
EH 1906.
Clamping Angles



EH 1910.
Clamping Angles
welded, semi-finished



EH 1910.
Clamping Angles
one-sided, welded, semi-
finished



Clamping Cubes

EH 1908.
Clamping Cubes
semi-finished



EH 1910.
Clamping Cubes
welded, semi-finished



Request the detailed catalog
STANDARD PARTS

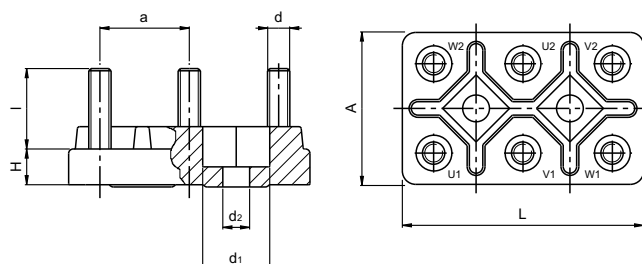


110093A TERMINAL BLOCKS RCG



PF Black duroplast.
Zinc-plated steel stud.
Terminal links for this block 110094 / 390019.

Code	L	A	H	d	l	d1	d2	a
11009336503	36	23	8	M3	10	7	3,5	12,5
11009354505	54	34	10	M5	19	10,5	5,5	19

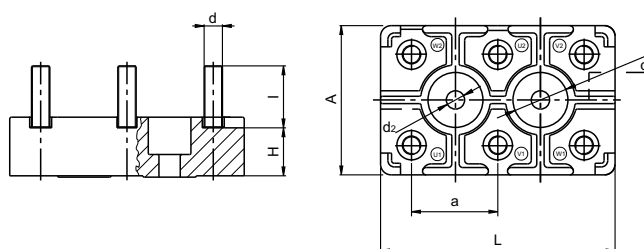


110093B TERMINAL BLOCKS MCP



PF Black duroplast.
Zinc-plated steel stud.
Terminal links for this block 110094 / 390019.

Code	L	A	H	d	l	d1	d2	a
11009364505	64	40	11	M5	19	15	5,1	24

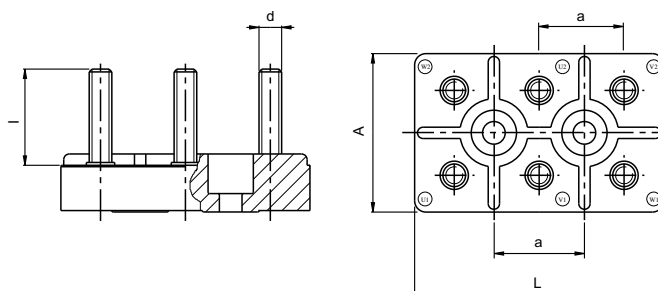


390001 TERMINAL BLOCKS TYPE S



Synthetic material FS31 DIN 7708.
Brass studs.
Terminal links for this block 110094 / 390019.

Code	L	A	d	l	a
39000104428	44	28	M4	15	15

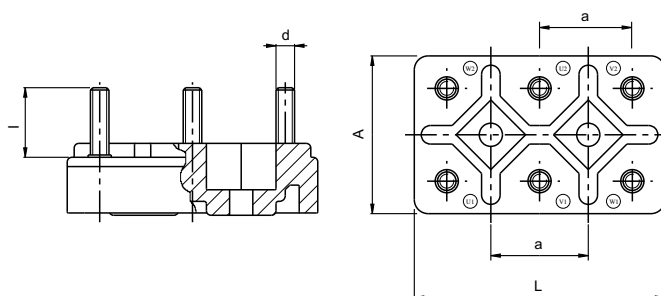


390003 TERMINAL BLOCKS DIN 46294 FS



Synthetic material FS31 DIN 7708.
Brass studs.
Terminal links for this block 110094 / 390019.
*On request, MOQ 100u.

Code	L	A	d	l	a
39000305434	54	34	M4	15	20
39000306440	64	40	M5	19	23
39000307848	78	48	M6	24	28
39000309660	96	60	M8	28	35
39000312075	120	75	M10	34	45
39000315095	*150	95	M12	40	55
39000316010	*160	100	M12	40	60
39000319612	*196	121	M16	55	75
39000319613	*196	121	M20	60	75

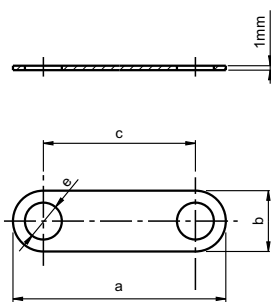


390019 / 110094 TERMINAL LINKS

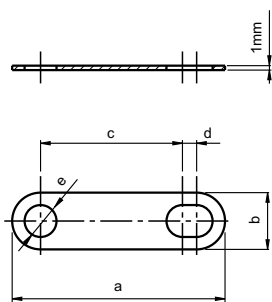


Brass.

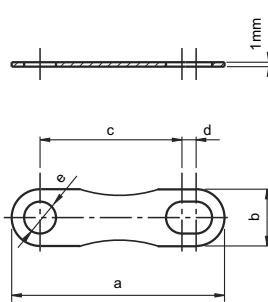
Code	For Block	Type	c	d	e	b	a
11009401123	11009336503	A	13	-	3,5	6	19
39001904153	39000104428	C	15	-	3,3	8	22
39001904202	39000305434 y 11009354505	B1	18	2,5	4,3	8	28
39001905232	39000306440 y 11009364505	B1	20	3,2	5,5	10	33
39001906262	39000307848	B	25	3,3	6,4	12	40
39001908351	39000309660	A	35	-	8,5	14	49
39001910402	39000312075	B	40	5,5	10,5	20	65



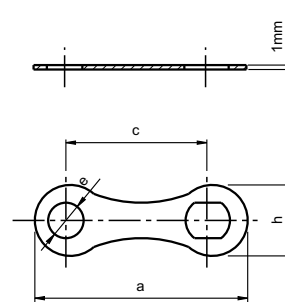
TYPE A



TYPE B



TYPE B1



TYPE C

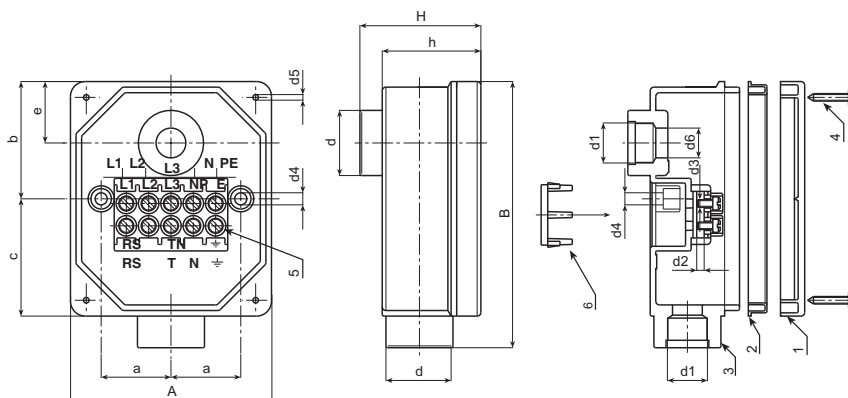
470070 COMPLETE "SEALED" 5 WAY TERMINAL BLOCK



- 1-3. Impact resistant, self-extinguishing Polystyrene.
- 4. Galvanised self-tapping screw 4.2x22 DIN 7981/UNI6954.
- 2. Thermoplastic rubber 75 shore.
- 5. Galvanised steel screw M4x10 DIN 84.
- 6. Rear terminal block cover.

Degree of protection: IP54

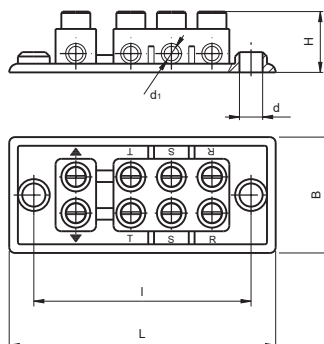
Code	A	B	H	h	d	a	b	c	e	d1	d2	d3	d4	d5	d6
47007012021	108	144	67	53	35,5	38	63	29,5	33	M25x1,5	5	M04	6,5	3,5	17,5



470075 LARGE 4 WAY TERMINAL BLOCK



- Impact resistant, self-extinguishing Polystyrene.
- Brass insert with threaded through hole.
- Galvanised steel screw M4x10 DIN 84.



Code	L	B	H	I	d	d1
47007509000	92	40	20	75	7	5

Enclosure Heatsink and Instrument Cases

Specifically developed to offer a stylish yet robust off the shelf item within which to mount electronic circuitry and components. The external surface of the enclosure incorporates a series of ribbed fins to aid heat dissipation, T slots have been provided on both the side and base of the enclosure proving mounting facilities. Material: Black anodized aluminium. Enclosure case manufactured from a single hollow aluminium extrusion.



Ask us for more details.

Self-adhesive Bumpers

Cylindrical			
Code	Colors	Sizes Diameter x Height	Qty.
2300034	 Transparent* Black White	9.5mm x 3.2mm	300 U/Sheet 6,000 U/Box
2300035	 Transparent Black Grey	9.5mm x 4.8mm	200 U/Sheet 5,000 U/Box
2300005	 Transparent Black Brown Grey White	12.7mm x 1.5mm	200 U/Sheet 5,000 U/Box
2300018	 Transparent* Black Grey White	12.7mm x 3.5mm	200 U/Sheet 5,000 U/Box
2300001	 Transparent Black Brown Grey White	12.7mm x 3.5mm	200 U/Sheet 5,000 U/Box
2300006	 Transparent Black White	12.7mm x 6.4mm	200 U/Sheet 5,000 U/Box
2300011	 Transparent Black Grey	16.5mm x 10.2mm	128 U/Sheet 2,560 U/Box
2300044	 Transparent Black White	19.1mm x 4.1mm	98 U/Sheet 2,450 U/Box
2300041	 Transparent Black Grey	19.8mm x 5.1mm	84 U/Sheet 3,360 U/Box
2300024	 Transparent Black Brown White Grey	20.6mm x 3.0mm	72 U/Sheet 2,520 U/Box

Square			
Code	Colors	Sizes Wide x Height	Qty.
2300020	 Transparent Black Brown Grey White	10.2mm x 2.5mm	242 U/Sheet 5,082 U/Box
2300032	 Transparent Black Brown Grey White	12.7mm x 3.0mm	200 U/Sheet 5,000 U/Box
2300003	 Transparent Black	12.7mm x 5.8mm	200 U/Sheet 5,000 U/Box
2300029	 Transparent Black Brown	19.8mm x 6.4mm	98 U/Sheet 2,940 U/Box
2300004	 Transparent Black	19.8mm x 9.7mm	1 U/Sheet 2000 U/Box
2300019	 Transparent Black	20.6mm x 7.6mm	98 U/Sheet 2,646 U/Box
2300036	 Transparent Black Grey	25.4mm x 4.6mm	55 U/Sheet 2,310 U/Box

Characteristics

- Does not stain or mark
- Easy to apply
- Abrasion high resistance
- Anti-slip
- High coefficient of friction
- Resistant to opening or breaking
- Dampens vibration and shock
- UL recognized component

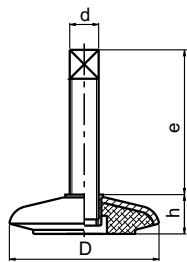
Hemispherical			
Code	Colors	Sizes Diameter x Height	Qty.
2300040	 Transparent Black White	6.4mm x 1.6mm	578 U/Sheet 15,028 U/Box
2300027	 Transparent* Black White	7.9mm x 2.2mm	450 U/Sheet 5,400 U/Box
2300007	 Transparent Black White	8.5mm x 2.2mm	450 U/Sheet 5,400 U/Box
2300012	 Transparent* Black Grey	9.5mm x 3.8mm	200 U/Sheet 5,000 U/Box
2300022	 Transparent* Black	9.5mm x 5.4mm	300 U/Sheet 6,000 U/Box
2300002	 Transparent* Black Brown Grey White	11.1mm x 5.0mm	242 U/Sheet 5,082 U/Box
2300015	 Transparent Black Brown Grey White	15.7mm x 7.9mm	128 U/Sheet 3,200 U/Box
2300008	 Transparent Black Brown Grey White	18.2mm x 9.6mm	98 U/Sheet 2,254 U/Box
2300039	 Transparent Black	19.1mm x 1.9mm	84 U/Sheet 5,040 U/Box

Conical & Recessed			
Code	Colors	Sizes Diameter x Height	Qty.
2300037	 Transparent Black	18.3mm x 14.2	1 U/Sheet 1,500 U/Box
2300047	 Transparent Black	19.1mm x 19.1mm	1 U/Sheet 1,000 U/Box
2300057	 Transparent Black	20.0mm x 22.5mm	1 U/Sheet 1,000 U/Box
2300017	 Transparent Black Brown Grey White	22.3mm x 10.2mm	72 U/Sheet 1,440 U/Box
2300030	 Transparent Black Brown Grey White	46mm x 15.2mm	1 U/Sheet 500 U/Box

* Available in soft polyurethane Shore A 40-50.

410001

FAST ANTI-VIBRATION FOOT

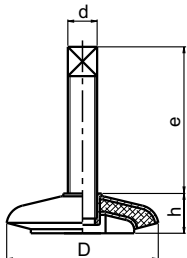


Code	D	d	e	h	Ce
41000108012	80	M12	70	29	253
41000111014	110	M14	105	34	623
41000114016	140	M16	117	45	900
41000120020	200	M20	113	62	3600

Zinc-plated steel base.
Removable zinc-plated stud with two nuts and two washers.
Anti-oil rubber.
Ce: Max. static load. (Kg).

410003

MACHINE ANTI-VIBRATION MOUNT

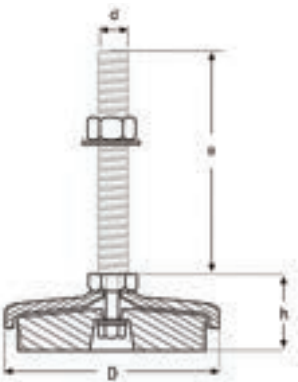


Code	D	d	e	h	Cd	Ce
41000308012	80	M12	53	27	400	1200
41000311014	110	M14	93	32	650	1900
41000314016	140	M16	91	39	900	2850
41000320020	200	M20	113	62	1800	6000

Zinc-plated steel base.
Extractable zinc-plated stud with two nuts and two washers.
Anti-oil rubber.
Rubber hardness:
1st layer: 60°Shore A(±5)
2nd layer: 80°Shore A(±5)
Intermediate metallic reinforcement with a very elastic synthetic rubber that guarantees a high level of anti-vibration.
Cd: dynamic load max. (Kg).
Ce: Max. static load. (Kg).

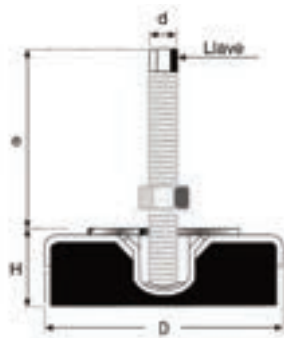
410004

ANTI-VIBRATION FEET



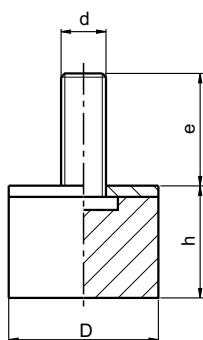
Code	D	h	d	e	Ce
41000404025	40	34	M10	50	600
41000408031	80	44	M12	100	800
41000412035	120	48	M16	100	1000
41000416036	160	63	M20	150	2000
41000420060	200	63	M20	150	3000

Zinc-plated steel base.
Rubber NBR 80° shore.
Zinc plated steel revolving spindle.
Spindle assembled to the base.
Ce: Max. static load. (Kg).

410005**ANTI-VIBRATION LEVELING FEET**

Code	D	H	d x pitch	e	Wrench	Ce
41000508045	80	42	M12x1,25	120	8	700
41000512045	120	42	M16x1,50	120	12	1000
41000516045	160	47	M20x1,50	170	14	1500
41000520055	200	51	M20x2,50	170	14	4000

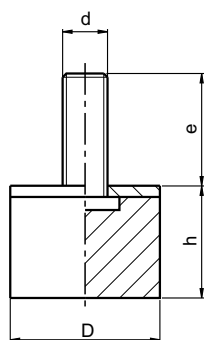
Rubber NBR 80° shore.
 Height adjustable base.
 Zinc plated steel spindle.
 41000520055 with Standard pitch.
 Base and spindle not assembled.
 Ce: Max. static load. (Kg).

410011**P ANTI-VIBRATION MOUNT**

NR Rubber compound 60°±5° shore A.
 Zinc plated steel stud.
 Used like feet for light machinery.
 Cp: Max. compression load (Kg).

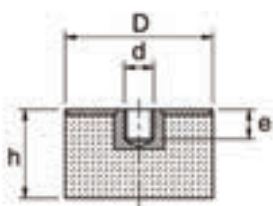
Code	D	h	d	e	Cp
41001101510	15	10	M4	10	10
41001101015	15	15	M4	14	10
41001101610	16	10	M5	12	12
41001102010	20	10	M6	16	16
41001102015	20	15	M6	16	18
41001102020	20	20	M6	16	18
41001102025	20	25	M6	16	18
41001102030	20	30	M6	16	16
41001102515	25	15	M6	18	29
41001102520	25	20	M6	18	29
41001102525	25	25	M6	18	29
41001102530	25	30	M8	20	29
41001103010	30	10	M8	23	42
41001103015	30	15	M8	23	42
41001103020	30	20	M8	23	42
41001103025	30	25	M8	23	42
41001103030	30	30	M8	23	38
41001103040	30	40	M8	23	38
41001104020	40	20	M8	23	57
41001104030	40	30	M8	23	75
41001104035	40	35	M8	23	75
41001104040	40	40	M10	28	75
41001105020	50	20	M10	28	117
41001105030	50	30	M10	28	117
41001105040	50	40	M10	28	117
41001105045	50	45	M10	28	117
41001105050	50	50	M10	28	117
41001106020	60	20	M12	37	169
41001106030	60	30	M12	37	169
41001106040	60	40	M12	37	169
41001106050	60	50	M12	37	169
41001107525	75	25	M12	37	265
41001107540	75	40	M12	37	265
41001107550	75	50	M12	37	265
41001110040	100	40	M16	45	471
41001110050	100	50	M16	45	471
41001110080	100	80	M16	57	380

410010
PSS STAINLESS STEEL ANTI-VIBRATION MOUNT

INOX
Stainless Steel


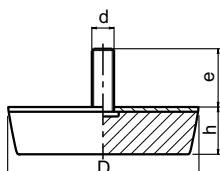
Code	D	h	d	e	Cp
41001091515	15	15	M4	14	15
41001092015	20	15	M6	16	34
41001092520	25	20	M6	18	45
41001093030	30	30	M8	20	61
41001094030	40	30	M8	23	98

NR Rubber compound $60^{\circ}\pm 5^{\circ}$ shore A.
Stainless steel screw and washer AISI 304.
Screw pressed on the washer.
Cp: Max. compression load (Kg).

410012
PF ANTI-VIBRATION MOUNT


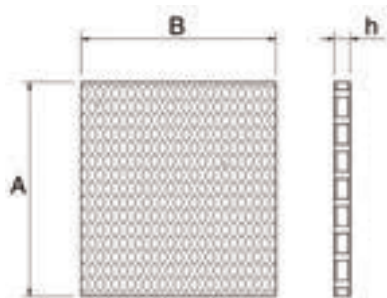
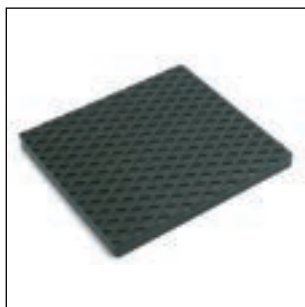
Code	D	h	d	e	Cp
41001202518	25	18	M6	9	29
41001202520	25	20	M6	6	29
41001203020	30	20	M8	8	42
41001204030	40	30	M8	8	75
41001205020	50	20	M10	10	117
41001205030	50	30	M10	10	117

NR Rubber compound $60^{\circ}\pm 5^{\circ}$ shore A.
Threaded blind hole.
Cp: Max. compression load (Kg).
Available in stainless steel. Ask for MQ.

410013
PA ANTI-VIBRATION MOUNT


Code	D	h	d	e	Cp
41001308010	80x80	30	M10	27	450
41001312012	120x120	30	M12	36	900

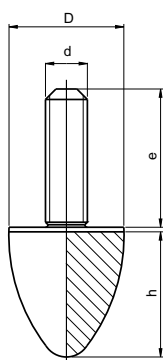
NBR Rubber compound $70^{\circ}\pm 5^{\circ}$ shore A.
Zinc plated steel stud.
Used like feet for light machinery.
Cp: Max. compression load (Kg).

410014
RUBBER PLATE


Code	A	B	h	Cp
41001422000	220	201	16	15

NBR Rubber compound.
Cp: Max. compression load (Kg/cm^2).

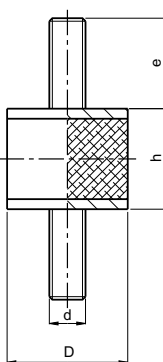
410017 AV ANTI-VIBRATION MOUNT



NR Rubber compound $60^{\circ}\pm 5^{\circ}$ shore A.
Zinc plated steel stud.
Used as shock-absorbers, feet and stroke end.
Cp: Max. compression load (Kg).
Available in stainless steel.
Ask for MQ.

Code	D	h	d	e	Cp
41001702522	25	22	M6	20	20
41001702530	25	30	M6	18	18
41001703036	30	36	M8	23	25
41001704030	40	30	M8	23	29
41001704060	40	60	M8	23	28
41001705050	50	50	M10	28	54
41001705064	50	64	M8	35	50
41001706060	60	60	M12	33	72
41001707570	75	70	M12	37	117
41001710085	100	85	M16	42	330

410021 M ANTI-VIBRATION MOUNT



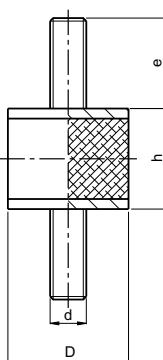
NR Rubber compound $60^{\circ}\pm 5^{\circ}$ shore A.
Zinc plated steel stud.
More sizes on demand.
Cp: Max. compression load (Kg).
Cz: Max. shear load (Kg).

Code	D	h	d	e	Cp	Cz
41002101310	13	10	M5	10	15	2
41002101515	15	15	M4	14	15	2
41002102010	20	10	M6	16	36	3
41002102015	20	15	M6	16	34	4
41002102020	20	20	M6	16	34	2
41002102515	25	15	M6	18	35	5
41002102520	25	20	M6	18	45	5
41002102530	25	30	M6	18	34	3
41002103020	30	20	M8	23	66	9
41002103030	30	30	M8	23	61	7
41002103040	30	40	M8	23	55	5
41002104030	40	30	M8	23	98	15
41002104035	40	35	M8	23	88	13
41002105020	50	20	M10	28	168	21
41002105030	50	30	M10	28	158	19
41002105040	50	40	M10	28	143	17
41002105050	50	50	M10	28	133	13
41002196030	60	30	M12	37	172	36
41002106550	65	50	M12	37	230	23
41002107525	75	25	M12	37	382	89
41002107540	75	40	M12	37	377	79
41002107550	75	50	M12	37	372	69
41002110050	100	50	M16	42	560	99
41002110055	100	55	M16	42	635	79
41002110060	100	60	M16	42	587	49

410020 MSS STAINLESS STEEL ANTI-VIBRATION MOUNT

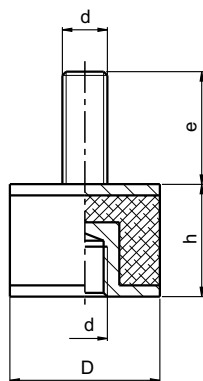


INOX
Stainless
Steel



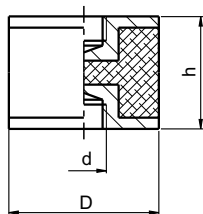
NR Rubber compound $60^{\circ}\pm 5^{\circ}$ shore A.
Stainless steel screw and washer AISI 304.
More sizes on demand.
Cp: Max. compression load (Kg).
Cz: Max. shear load (Kg).

Code	D	h	d	e	Cp	Cz
41002091515	15	15	M4	14	15	2
41002092015	20	15	M6	16	34	4
41002092520	25	20	M6	18	45	5
41002093030	30	30	M8	23	61	7
41002094030	40	30	M8	23	98	15



NR Rubber compound $60^{\circ}\pm 5^{\circ}$ shore A.
Zinc plated steel stud.
More sizes on demand.
Cp: Max. compression load (Kg).
Cz: Max. shear load (Kg).
Available in stainless steel.
Ask for MQ.

Code	D	h	d	e	Cp	Cz
41002201515	15	15	M4	14	15	3
41002202015	20	15	M6	16	34	3
41002202020	20	20	M6	16	29	2
41002202520	25	20	M6	18	45	5
41002202530	25	30	M6	18	35	3
41002203020	30	20	M8	23	66	9
41002203030	30	30	M8	23	61	7
41002203040	30	40	M8	23	54	5
41002204030	40	30	M8	23	98	15
41002204035	40	35	M8	23	88	13
41002205020	50	20	M10	28	169	21
41002205030	50	30	M10	28	159	20
41002205040	50	40	M10	28	144	18
41002205050	50	50	M10	28	134	14
41002206550	65	50	M12	37	230	23
41002207525	75	25	M12	37	382	89
41002207540	75	40	M12	37	378	78
41002207550	75	50	M12	37	373	68
41002210050	100	50	M16	45	660	98
41002210055	100	55	M16	45	636	78
41002210060	100	60	M16	45	586	48

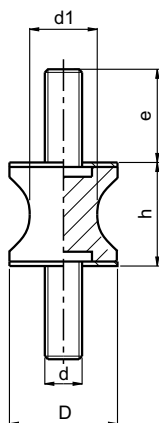


NR Rubber compound $60^{\circ}\pm 5^{\circ}$ shore A.
Zinc plated steel insert.
More sizes on demand.
Cp: Max. compression load (Kg).
Cz: Max. shear load (Kg).
Available in stainless steel. Ask for MQ.

Code	D	h	d	Cp	Cz
41002301515	15	15	M4	15	2
41002302020	20	20	M6	20	2
41002302520	25	20	M6	45	5
41002302530	25	30	M6	35	3
41002303020	30	20	M8	66	9
41002303030	30	30	M8	61	8
41002303040	30	40	M8	54	5
41002304030	40	30	M8	98	15
41002304035	40	35	M8	108	13
41002305030	50	30	M10	169	19
41002305040	50	40	M10	144	17
41002305050	50	50	M10	134	13
41002306050	60	50	M10	200	24
41002307530	75	30	M12	390	90
41002307540	75	40	M12	378	78
41002307550	75	50	M12	373	68
41002310050	100	50	M16	660	98
41002310055	100	55	M16	636	78
41002310060	100	60	M16	590	49

410025

SGOLATI ANTI-VIBRATION MOUNT



Code	D	h	d1	d	e	Cp	Cz
41002501207	12	15	7	M4	10	3	0.8
41002502510	25	20	10	M6	18	50	3
41002503024	30	20	20	M8	23	60	10
41002504019	40	30	19	M8	20	80	6
41002504027	40	30	27	M8	20	100	8

NR Rubber compound $60^{\circ}\pm 5^{\circ}$ shore A.
Zinc plated steel stud.
Specially suitable to fix equipments being very sensitive to vibrations, control panels, light machinery, suspended instruments panels.
Cp: Max. compression load (Kg).
Cz: Max. shear load (Kg).
Available in stainless steel. Ask for MQ.

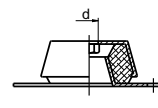
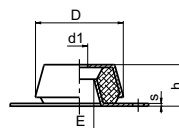
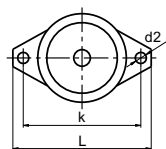
410031

SIRIO ANTI-VIBRATION MOUNT

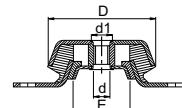


Code	D	E	d2	h	k	L	s	d1	d	Hardness	Ce	Version
41003105008	48	19	6.5	23	68	80	1.5	8.5	-	$60^{\circ}\pm 5^{\circ}$	102	-
41003106010	62	25	8.5	30	85	100	2	10.5	-	$60^{\circ}\pm 5^{\circ}$	214	-
41003109016	92	40.5	10.5	44	110	130	3	16.5	-	$60^{\circ}\pm 5^{\circ}$	343	-
41003111024	119	50.5	16.5	48	160	190	4	24.5	-	$60^{\circ}\pm 5^{\circ}$	641	-
41003116030	158	80	16.5	60	200	230	5	30.5	-	$60^{\circ}\pm 5^{\circ}$	1211	-
41003106310	62	25	8.5	30	85	100	2	-	M10	$60^{\circ}\pm 5^{\circ}$	214	CD
41003109316	92	40.5	10.5	44	110	130	3	-	M16	$60^{\circ}\pm 5^{\circ}$	343	CD
41003111324	119	50.5	16.5	48	160	190	4	-	M24	$60^{\circ}\pm 5^{\circ}$	641	CD
41003106510	62	39	8.5	30	85	100	2	14	M10	$55^{\circ}\pm 5^{\circ}$	250	T
41003109516	92	60	10.5	44	110	130	3	20	M16	$55^{\circ}\pm 5^{\circ}$	360	T
41003111916	119	82	16.5	48	160	190	4	21	M16	$55^{\circ}\pm 5^{\circ}$	650	T

NR Rubber compound shore A and zinc plated steel.
Cushy-float flanged mountings, used when good transversal flexibility is required, where frequency are between 8 and 12 Hz.
Used in diesel engines, marine engines, refrigerators, agricultural machines, generators.
Version T recommended for marine motors, tractor cabins, etc.
Ce: Max. static load (Kg).



Version CD



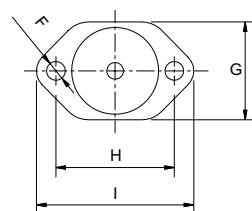
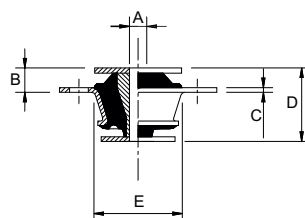
Version T

410029

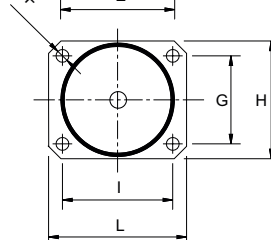
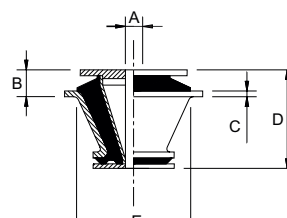
CONICAL ANTI-VIBRATION MOUNT



Code	A	B	C	D	E	F	G	H	I	L	Cp
41002906012	12	16.5	2.5	-	57	11x14	68	80	106	-	150
41002907816	16	19.5	4	53	80	11	65	90	80	107	260
41002909316	16	20	4	73	94,5	11	74	101	90	120	700
41002910920	20	23	5	86	115	11	92	120	112	140	1250



41002906012



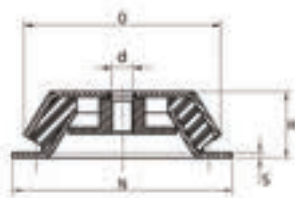
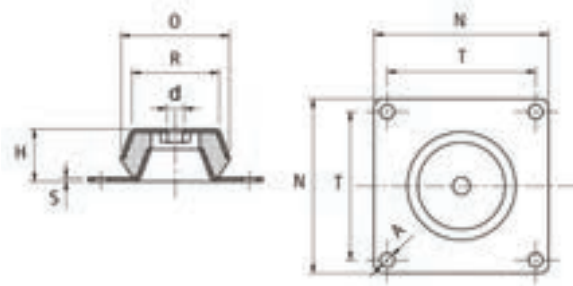
41002907813 / 41002909316 / 41002910920

NR Rubber compound $60^{\circ}\pm 5^{\circ}$ shore A.
Zinc plated steel insert.
Cp: Max. compression load (Kg).



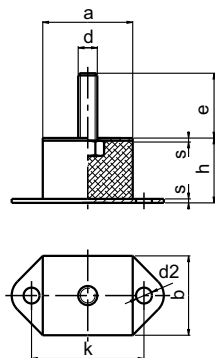
NR Rubber compound Shore A.
Welded threaded nut.
Zinc plated steel sheet.
Ce: Max. static load (Kg).

Code	A	H	d	N	O	R	S	T	Hardness	Ce
41003015355	13	51	M16	168	150	110	4	132	60°	2500
41003015370	13	51	M16	168	150	110	4	132	70°	3825
41003017355	13	63	M20	180	175	125	4	150	60°	4655



Code	H	d	N	O	S	Ce
41003015555	51	M16	168	150	4	2500
41003017555	63	M20	180	175	4	4655

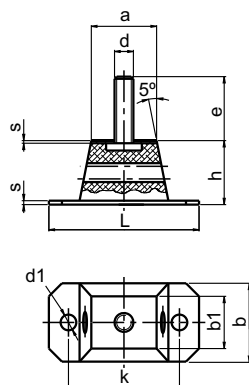
NBR Rubber compound 60° shore A.
With vulcanized threaded shock-absorber.
Zinc plated steel sheet.
This model includes an anti-vibration pad with failsafe. This leads to a reliable machine fixing that stands up to the rigours of firing a powerful combustion engine.
The NBR compound of the machine base offers optimal stability and high resistance to oils.
Ce: Max. static load (Kg).



Code	b	a	k	h	e	d2	d	s	Cp
41003308075	70	80	105	54	35	11	M12	5	950

NBR Rubber compound 60°±5° shore A.
Zinc plated steel stud.
Oil and heat resistant.
Used as vehicle suspension springs, conveyor systems, electric engines.
Cp: Max. load compression (Kg).

410035 REBO ANTI-VIBRATION MOUNT



Code	d1	b	b1	L	a	k	s	h	e	d	Cp
41003500050	12.2	60	40	115	50	85	3	46	37	M12	300
41003500100	12.2	60	40	165	100	135	3	46	37	M12	500
41003500150	12.2	60	40	215	150	185	3	46	37	M12	750
41003500200	12.2	60	40	265	200	235	3	46	37	M12	1000

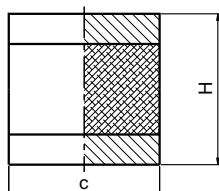
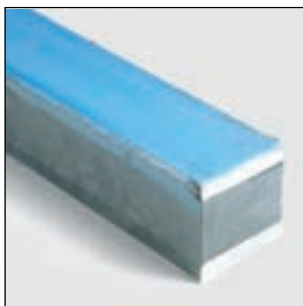
NR Rubber compound $60^{\circ} \pm 5^{\circ}$ shore A.
Zinc plated steel stud.

Oil resistant, vertical and transversal flexibility (the rubber is specially flexible in this model).

Used in electric fans, motor pumps, compressors, machine tools, generating sets.

Cp: Carga de compresión max. (Kg).

410037 ANTI-VIBRATION MOUNT BAR



Code	c	H	Length	Kg/cm ²
41003705000	50	50	1000	14
41003706000	60	60	1000	14
41003707000	70	60	1000	14
41003708000	80	60	1000	14
41003710000	100	60	1000	14

The antivibrating bars have been built to support high working loads. They are particularly indicated for any type of generating set.

The antivibrating bars are manufactured in synthetic rubber, hardness 65° shore A ($\pm 5^{\circ}$).

The metal parts are blue lacquered.

370090C SIMPLEX SOFT-FACE MALLETS - CAST IRON HOUSING



Hammer for machine building and the automotive industry. This hammer is supplied with two hard white nylon inserts, a malleable cast iron body and a wooden handle. Highly wear resistant, non-splintering (even at sub-zero temperatures) and resistant to oils and greases. We can supply other ferrules more suitable for your work, as outlined in the reference 370091. Interchangeable inserts.

Application Areas: Workpiece setting, sharp-edged part assembly, housing assembly, mold construction, plant construction, hall construction, steel construction, trade fair construction, sheet metal forming, repair and maintenance work, etc...

Code	Ø	—i—	—i—	Weight(gr)
37009003008	30	90	300	340
37009004008	40	110	330	650
37009005008	50	135	350	1130
37009006008	60	145	405	1500
37009008008	80	175	490	2880

370090L SIMPLEX SLEDGE HAMMERS - CAST IRON HOUSING



This hammer is supplied with two inserts made of medium-hard white superplastic, a malleable cast iron body and a walnut handle. We can supply other ferrules more suitable for your work, as outlined in the reference 370091 Interchangeable inserts.

Application Areas: Gardening and landscaping, laying curbs, construction of fences, hitting steel wedges, construction of scaffolding, construction of tents, carpentry, etc...

Code	Ø	—i—	—i—	Weight(gr)
37009008108	80	175	800	3090
37009010008	100	200	1000	5200
37009012508	125	215	1040	7700
37009014008	140	215	1045	7900

370091 SIMPLEX INSERTS



TPE-soft blue.
No marring.

Code	Ø
37009103001	30
37009104001	40
37009105001	50
37009106001	60

Application Areas: For very delicate materials, gardening and landscaping, floor tiling, natural stone setting, furniture assembly, drywall construction, window and door construction, joiner's work.



TPE-mid, grey.
Medium hard.

Code	Ø
37009103003	30
37009104003	40
37009105003	50
37009106003	60

Application Areas: For delicate materials gardening and landscaping, natural stone setting, drywall construction, furniture assembly, floor tiling, paving, masonry and stair work, window and door construction, joiner's work.



Superplastic white.
Medium hard, very durable.

Code	Ø
37009103007	30
37009104007	40
37009105007	50
37009106007	60
37009108007	80
37009110007	100
37009112007	125
37009114007	140

Application Areas: Gardening and landscaping, paving, curbstone setting, fence construction, driving steel wedges, scaffold construction, tent construction, sheet-metal forming, prefabricated house construction, joiner's work, carpenter's work, assembly of sharp-edged workpieces.



Rubber composition,
Medium hard.

Code	Ø
37009103002	30
37009104002	40
37009105002	50
37009106002	60
37009108002	80

Application Areas: Gardening and landscaping, paving curbstone setting, masonry and stair work, fence construction, scaffold construction, tent construction, prefabricated house construction, carpenter's work, maintenance / repair work.



Plastic, red.
Hardness approx. 70 Shore D.

Code	Ø
37009103006	30
37009104006	40
37009105006	50
37009106006	60

Application Areas: Versatile use, assembly and repair work, maintenance work, sheet-metal forming, prefabricated house construction, carpenter's work, scaffold construction, tent construction.



Nylon white,
Extra hard.

Code	Ø
37009103008	30
37009104008	40
37009105008	50
37009106008	60
37009108008	80

Application Areas: Adjusting of workpieces, assembly of sharp-edged workpieces, housing assembly, mould construction, plant construction, hall construction, steel construction, exhibition stand construction, sheet-metal forming, repair and maintenance work.



Metal. Hard and heat-resistant.

Code	Ø
37009103009	30
37009104009	40
37009105009	50
37009106009	60
37009108009	80

Application Areas: For high impact, straightening work, mould construction, plant construction, assembly, repair and maintenance work.

370092C SOFT-FACE MALLETS - NON-REBOUND



The tubular head of the SUPERCRAFT soft-face mallets is filled with steel shot. The resulting effect is that the energy of the steel shot is transferred with a slight delay when the mallet's contact surface hits the workpiece. The reduced rebound allows the impact energy to be absorbed with perfect efficiency. The inserts offer outstanding impact qualities and are guaranteed to combine maximum strength with unique durability. They consist of extruded and extremely homogeneous material. Ergonomic and varnished Hickory handle.

Code	Ø	—i↑	—i↓	Weight(gr)
37009220000	20	105	300	245
37009225000	25	105	305	325
37009230000	30	110	330	460
37009235000	35	110	335	560
37009240000	40	115	360	715
37009245000	45	120	365	830
37009250000	50	120	370	990
37009260000	60	145	370	1705
37009270000	70	150	370	2215
37009280000	80	168	380	3210

Application Areas: Positioning and joining of workpieces in the vice sheet-metal forming, assembly of sharp-edged workpieces, assembly and repair work in the automotive and truck sector, scaffold construction, straightening work, housing assembly, plant construction, maintenance work, driving in cord irons / metal stakes, for work with great power, prying work, upholsterer/saddler, hole punching with hole punches, driving eyelets with eyelet punches, driving in cramps

370092L SLEDGE HAMMERS - NON-REBOUND



The tubular head of the SUPERCRAFT soft-face mallets is filled with steel shot. The resulting effect is that the energy of the steel shot is transferred with a slight delay when the mallet's contact surface hits the workpiece. The reduced rebound allows the impact energy to be absorbed with perfect efficiency. The inserts offer outstanding impact qualities and are guaranteed to combine maximum strength with unique durability. They consist of extruded and extremely homogeneous material. Ergonomic and varnished Hickory handle.

Code	Ø	—i↑	—i↓	Weight(gr)
37009281000	80	200	880	4410
37009297000	100	210	1000	7050

Application Areas: Formwork, hall construction, steel construction, exhibition stand construction, concrete formwork, scaffold construction, tent construction, fence construction, driving steel wedges, straightening work, maintenance working, changing stucked tires.

370093H SOFT-FACE MALLETS WITH BREAK-PROOF STEEL TUBE HANDLE & ERGONOMIC ANTI-SLIP GRIP

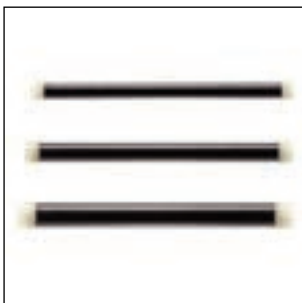


The tubular head of the SUPERCRAFT soft-face mallets is filled with steel shot. The resulting effect is that the energy of the steel shot is transferred with a slight delay when the mallet's contact surface hits the workpiece. The reduced rebound allows the impact energy to be absorbed with perfect efficiency. The inserts offer outstanding impact qualities and are guaranteed to combine maximum strength with unique durability. They consist of extruded and extremely homogeneous material. This version comes with a break-proof steel tube handle and an ergonomically shaped non-slip rubber grip.

Code	Ø	—i↑	—i↓	Weight(gr)
37009325000	25	105	270	385
37009330000	30	110	290	585
37009335000	35	110	295	690
37009340000	40	115	300	805
37009345000	45	120	305	935
37009350000	50	120	310	1150
37009360000	60	145	325	1750
37009370000	70	150	335	2250

Application Areas: Positioning and adjusting of workpieces, assembly of sharp-edged workpieces, straightening work, housing assembly, plant construction, maintenance work, assembly and repair work in the automotive and truck sector, sheet-metal forming for work with great power, placing roof trusses.

370094E PUNCHES



Fitted on both ends with replaceable, noise-dampening, very wear-resistant and splinter-proof heads made of special nylon, these little helpers make it possible to work with a steel hammer in an exceptionally secure and gentle manner.

Application Areas: Assembly, repair and maintenance in an environment of limited accessibility, automotive and truck sector.

Code	Ø	—i↓	Weight(gr)
37009410000	10	168	90
37009412000	12	170	130
37009415000	15	175	200

370094M DROP-MALLETS



Drop-mallets are, in effect, soft-face mallets without a handle, allowing the user to hold the hammer head directly in the hand. Suitable for use in situations where limited accessibility makes it impossible to work with a mallet, they are also ideal for applying exactly the amount of impact force that is needed for striking the workpiece with perfect precision and for working with minimum force. These little helpers are fitted on both ends with replaceable, noise-dampening, very wear-resistant and splinter-proof heads made of special nylon.

They are non-rebound tools thanks to their steel shot filling. The resulting effect is that the energy of the steel shot is transferred with a slight delay when the mallet's contact surface hits the workpiece. The reduced rebound lets the impact energy be absorbed with perfect efficiency, allowing for work with reduced strain on the joints and low noise.

Code	Ø	—i—	Weight(gr)
37009420000	20	150	215
37009430000	30	155	470
37009440000	40	160	785
37009450000	50	165	1250

Application Areas: Assembly, repair and maintenance in an environment of limited accessibility.

370095 SUPERCRAFT NYLON INSERTS FOR SOFT MALLETS, HAMMERS, PUNCHES & DROP-MALLETS



The nylon inserts with their hardness of approx. 73 Shore D are very hard. This white polyamide inserts offer outstanding impact qualities and are guaranteed to combine maximum strength with unique durability. They consist of extruded and extremely homogeneous material. Compared to injection moulded plastic inserts, they are therefore considerably more wear-resistant and durable and will never chip even in sub-zero temperatures. They stand up to the high impact forces produced by non-rebound soft-face mallets. What is more, they are oil and grease resistant and are also used on SUPERCRAFT soft mallets, SUPERCRAFT sledge hammers, punches and drop-mallets.

Code	Ø	Code	Ø
37009510000	10	37009540000	40
37009512000	12	37009545000	45
37009515000	15	37009550000	50
37009520000	20	37009560000	60
37009525000	25	37009570000	70
37009530000	30	37009580000	80
37009535000	35	37009597000	100

380027 BLACKCRAFT SOFT-FACE Mallet



The BLACKCRAFT is fully covered with a polyurethane coating. Aside from keeping the soft-face mallet free from corrosion, this coating protects the workpieces, prevents scratches as well as sparking in case of mis-strikes and has an additional vibration-reducing effect. The thick layer of polyurethane on the impact sides ensures a long service life. The BLACKCRAFT is furthermore distinguished by its break-proof steel tube handle and an ergonomic, anti-slip grip.

Code	Ø	—i—	—i—	Weight(gr)
38002700004	40	110	300	640
38002700005	50	115	310	900
38002700006	60	120	315	1300

Application Areas: Assembly and repair work in the automotive and truck sector, changing stucked tires, car body construction, dent removal, positioning und adjusting of workpieces, straightening work, sheet-metal forming, maintenance work, working on components with sensitive surfaces.

380028 SECURAL SOFT-FACE Mallet



The SECURAL soft-face mallet is a true specialist for corners and edges thanks to its rectangular inserts. Made of polyurethane, the medium hard inserts are replaceable. Perfectly balanced, the ratio of hammer head mass to shot mass in combination with the cushioning properties of the impact surfaces guarantees maximum rebound dampening. This allows the user to work with reduced strain on the joints while still applying extremely high impact forces. Welded in longitudinal direction, the housing provides for a perfectly break-proof connection between hammer head and handle.

Code	Ø	—i—	—i—	Weight(gr)
38002800004	30x40	117	300	680
38002800005	35x45	140	310	1000

Application Areas: Parquet and laminate flooring, window and door construction, drywall construction, furniture assembly, joiner's work, sheet-metal working, positioning and adjusting of workpieces, repair work, prying work.

380029 SECURAL INSERT



The insert for the SECURAL soft-face mallet is a medium hard insert with a shore hardness of approx. 60 Shore D. Its rectangular shape turns the SECURAL into a true specialist for corners and edges. Made of polyurethane, these yellow inserts are replaceable, wear-resistant and impact cushioning.

Code	Ø
38002900004	30x40
38002900005	35x45

37009016007**SIMPLEX SPLITTING MAUL**

Combining two tools into one, a splitting maul and a soft-face mallet of the highest professional quality, splitting maul offers a significant savings in cost compared to the individual purchases of the tools.

Made from high-grade carbon steel, the drop-forged splitting insert delivers extremely high splitting action thanks to its turned nose. The superplastic insert with D60mm is a medium hard plastic insert. Using the soft side when wedging the wood open entirely eliminates the risk of injury from metal splinters.

Made of cast iron, the housing comes with an integrated handle protection sleeve that provides for a high level of break resistance. The long-fibre and ultra durable hickory handle is varnished and shaped ergonomically.

Application Areas: Motor manual wood harvesting, safe and material-friendly driving of steel wedges with the superplastic insert, splitting of 1-metre logs, splitting felled timber with a wedge, driving of fittings in sensitive environments, gardening and landscaping.

Code	Ø	Longitud	Filo	Weight(gr)
37009016007	60	900	65	4100

37009075007**SIMPLEX SPLITTING AXE**

Combining two tools into one, a splitting axe and a soft-face mallet of the highest professional quality, splitting axes offer a significant savings in cost compared to the individual purchases of the tools.

The drop-forged and hardened axe blade is ground and polished. Its slender shape makes it ideal for splitting coniferous wood. The superplastic insert with D50mm is a medium hard plastic insert. Using the soft side when wedging the wood open entirely eliminates the risk of injury from metal splinters.

Made of cast iron, the housing comes with an integrated handle protection sleeve that provides for a high level of break resistance.

The long-fibre and ultra durable hickory handle is varnished and shaped ergonomically.

Application Areas: Especially suitable for splitting softwood.

Code	Ø	Longitud	Filo	Weight(gr)
37009075007	50	765	100	2700

37009075107**SIMPLEX SPLITTING AXE WITH WEDGE RIBS**

Combining two tools into one, a splitting axe and a soft-face mallet of the highest professional quality, splitting axes offer a significant savings in cost compared to the individual purchases of the tools.

The drop-forged and hardened axe blade is ground and polished. The optimized wedge ribs increase the splitting action and keep the tool from becoming stuck in the wood, making this version ideal for splitting hardwood. The superplastic insert with D50mm is a medium hard plastic insert. Using the soft side when wedging the wood open entirely eliminates the risk of injury from metal splinters.

Made of cast iron, the housing comes with an integrated handle protection sleeve that provides for a high level of break resistance.

The long-fibre and ultra durable hickory handle is varnished and shaped ergonomically.

Application Areas: Especially suitable for splitting hardwood - the optimised wedge ribs boost the impact force and keep the tool from becoming stuck in the wood.

Code	Ø	Longitud	Filo	Weight(gr)
37009075107	50	765	100	2840

37009037556**HAND AXE**

The robust all-metal design made from special heat-treated steel is forged in one piece and finely ground and polished on all sides.

The blade is carefully hardened and ground to sharpness.

The hand-made, anti-slip leather handle also absorbs moisture and releases it again when the work is done. Over time, it will contour to the shape of the hand.

Application Areas: Splitting of smaller logs and kindling, for sharpening wooden stakes, rough carving tasks, useful outdoor tool for campers, hunters, off-roaders, etc.

Code	Longitud	Filo	Weight(gr)
37009037556	370	90	1000

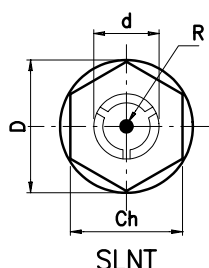
370090**TWISTED SPLITTING WEDGE**

Twisted perfectly by 20°, the forged and solid twisted splitting wedge delivers a great amount of splitting action and will not even shrink back from the challenge of splitting knotted wood.

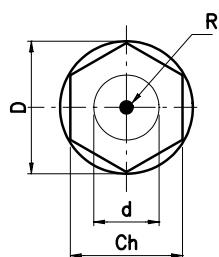
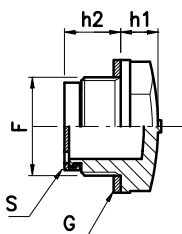
The recessed grips on the sides provide for secure handling and insertion of the wedge into the wood. Its orange powder coating makes the wedge easy to find at all times.

Application Areas: Effortless and efficient log splitting.

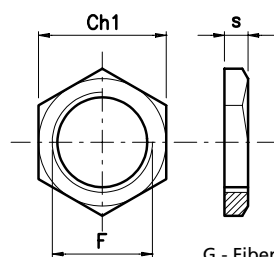
Code	Longitud	Filo	Weight(gr)
37009026556	260	50	3100



SLNT



SLNS



GF

G - Fiber Gasket
R - Red point
S - Contrast

For wall thicknesses less than 5mm, use GF brass lock nuts.

Code without contrast	Code with contrast	Ch	F	D	d	h1	h2	P (Nm)	Ch1	s
48002301014	-	17	G 1/4"	20,5	12	8	8,5	8	-	-
48002303038	48002103038	18	G 3/8"	22	12	6,5	12	12	19	5
48002304012	48002104012	24	G 1/2"	28	16	8	12	16	27	5
48002305034	48002105034	30	G 3/4"	36	21	8,5	13,5	21	32	6
48002307001	48002107001	36	G 1"	42	30	9	14	24	36	6
48002309114	48002109114	42	G 1 1/4"	51	32	10	17	-	46	6
48002310112	48002110112	50	G 1 1/2"	58	39	10	21	-	-	-
48002311002	48002111002	64	G 2"	74	48	12	20	-	-	-
48002301415	-	17	M14x1,5	20	12	7,5	8	8	-	-
48002301615	48002116000	18	M16x1,5	22	12	6,5	12,5	12	-	-
48002301815	48002118000	21	M18x1,5	25,5	14	6	12,5	12	-	-
48002302015	48002120000	24	M20x1,5	28	16	7,5	12	16	-	-
48002322000	48002122000	24	M22x1,5	28	16	7,5	12,5	16	-	-
48002326000	48002126000	30	M26x1,5	36	21	8,5	13,5	21	-	-
48002327000	48002127000	30	M27x1,5	36	21	8,5	13,5	21	-	-
48002340000	48002140000	42	M40x1,5	51	32	10	17	-	-	-

Threaded oil level gauges, hex head with shoulder. Used in oil tanks, gearboxes and hydraulic machinery and tools in general.

Made of transparent polyamide that provides good mechanical resistance and is impermeable to mineral oil, gasoline, lubricants, petroleum, solvents and most chemical agents. Avoid contact with alcohol-based solutions, high-temperature antifreeze fluids, and hot water over 80°C.

Fiber joint (optional flat NBR seal on request that adds the /G suffix to the code).

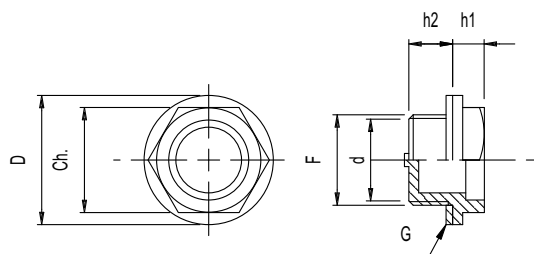
The level gauge features a "hot-painted" red dot in the center (SLNS model). The SLNT model is provided with a contrasting white display for a clearer indication of the oil level.

Dimensional stability up to a temperature of 90°C.

The maximum suggested tightening torque for installation is indicated in the table (Nm).

Model SLNS-T/CX made of special resin resistant to fluids containing alcohol and antifreeze liquids.

480018 CLOSED LEVEL SIGHT SLC



G=Fiber Gasket

Code	Ch	F	D	d	h1	h2	Nm
48001803038	18	G 3/8"	22	12	7	10	6
48001804012	24	G 1/2"	29	16	5	10	10

Threaded oil level gauges, hex head with shoulder. Used in oil tanks, gearboxes and hydraulic machinery and tools in general.

Made of transparent polyamide that provides good mechanical resistance and is impermeable to mineral oil, gasoline, lubricants, petroleum, solvents and most chemical agents. Avoid contact with alcohol-based solutions and antifreeze liquids at high temperatures and hot water over 80°C.

Fiber gasket (optional flat NBR seal on request).

Dimensional stability up to 90°C temperature.

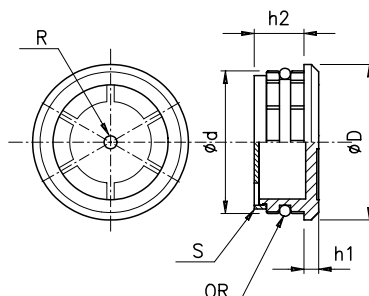
The maximum suggested tightening torque for installation is indicated in the table (Nm).

The base of the threaded end is solid, therefore residual fluid that could give a false indication is not trapped inside when the level drops.

480011 PRESS FIT LEVEL SIGHT GLASSES SLP



Code	F=Ø mm	D	Ø d	h1	h2
48001117000	17	18	16,9	3	7
48001120000	20	24	19,6	4	10
48001126000	26	30	25	4	11,5
48001132000	32	36	31,7	4	13
48001138000	38	42	37,5	4	14
48001140000	40	44	39,5	4	14



R=Red point
S=Contrast
OR=NBR O-ring

Pressure oil level gauges, used in tanks and reservoirs with diameter F with a wall thickness greater than 5 mm; Pre-drilled hole tolerance ± 0.1 mm.

Excellent sealing ability thanks to oil-resistant NBR 70 Shore O-ring.

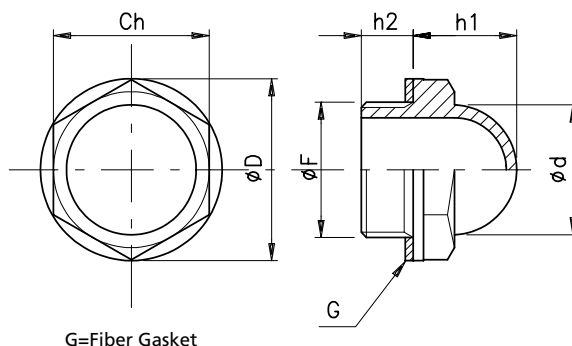
The "hot painted" red dot, located in the center of the level indicator, combined with the white reflector allows easy reading of the oil level.

Made of transparent polyamide that provides good mechanical resistance and is impermeable to mineral oil, gasoline, lubricants, petroleum, solvents and most chemical agents (see technical table, page 84). Avoid contact with alcohol-based solutions and high temperature antifreeze fluids and hot water over 80°C. Good dimensional stability at low and high temperatures (maximum operating temperature 90 °C); only recommended for application without internal pressure.

480036 DOME SHAPED OIL LEVEL GLASSES LSB



Code	F	Ch	D	d	h1	h2	Nm
48003609000	G 3/8"	19	22	15	14	10	7
48003612000	G 1/2"	24	28	20	18	10	15
48003619000	G 3/4"	30	35	25	20	10	20
48003625000	G 1"	36	42	31	24	10,5	25



G=Fiber Gasket

Circular transparent dome-shaped sight glass, which allows you to see the oil level from any angle.

Made of transparent polyamide that provides good mechanical resistance and is impermeable to mineral oil, gasoline, lubricants, petroleum, solvents and most chemical agents. Avoid contact with alcohol-based solutions and antifreeze liquids at high temperatures and hot water over 80°C.

Fiber gasket (optional flat NBR seal on request).

Dimensional stability up to a temperature of 90°C.

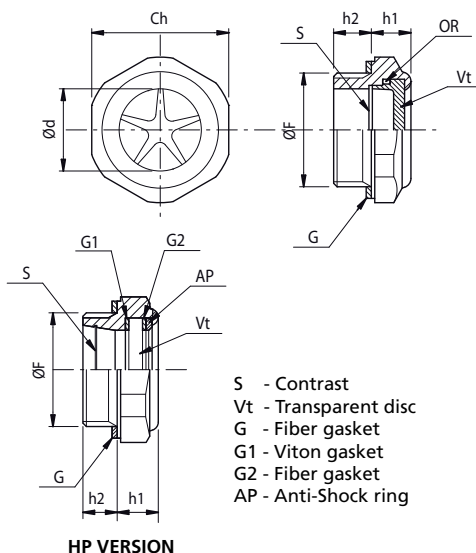
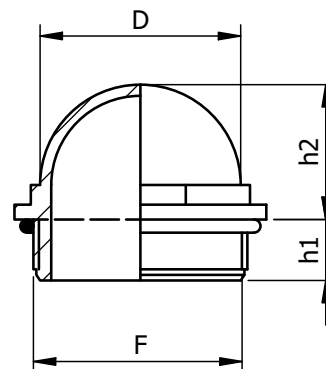
The maximum suggested tightening torque for installation is indicated in the table (Nm).



Transparent half ball level gauges, available with 2" and 3" thread welded steel flanges.

Made of thermoplastic resin for optimal shock resistance and high strength; maximum operating temperature 70 ° C. The product is used in trucks / tankers and large tanks containing liquids, especially in agricultural machinery. A 70 shore O-ring is available on request.

Code	F	D	h1	h2
48003355002	G 2"	59	22	32
48003385003	G 3"	85	32	63



NORMAL VERSION

Code	F	Ch	d	h1	h2
48002006000	G 1/4"	17	11	9	8
48002009000	G 3/8"	22	13	10	9
48002012000	G 1/2"	27	16	10	9
48002019000	G 3/4"	32	20	9	12
48002025000	G 1"	40	26	11	11
48002026000	G 1 1/4"	50	26	14	12
48002014000	M14x1,5	17	11	9	8
48002016000	M16x1,5	22	12	9	9
48002018000	M18x1,5	22	13	10	9
48002020000	M20x1,5	24	15	11	10
48002035000	M22x1,5	27	16	10	9
48002024000	M24x1,5	30	18	12	11

HP VERSION
HIGH PRESSURE AND TEMPERATURE

Code	F	Ch	d	h1	h2
48002012002	G 1/2"	27	14	11	9
48002019001	G 3/4"	32	16	10	11
48002025001	G 1"	40	23	11	11
48002020001	M20x1,5	27	14	10	9
48002039000	M33x1,5	40	23	11	11

Threaded hexagonal head level indicator made of 2011 aluminum alloy. Plastic lens made of transparent polyamide PA compatible with mineral oil, gasoline, lubricants and fluids containing alcohol. **Working temperature from -10°C to 90°C max., with working pressure max. 5 bar.**

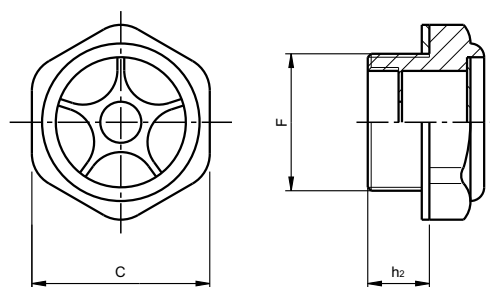
Internal contrast screen in white painted aluminum with Company logo (or dot) in red.

Fiber gasket (available on request aluminum washer).

For the applicable tightening torque (Nm = maximum suggested).

The **HP version** can reach a **working temperature of -10°C to 130°C** and a **20 bar** pressure and natural glass window, seal internal in Viton FKM. Do not use this version in vacuum applications.

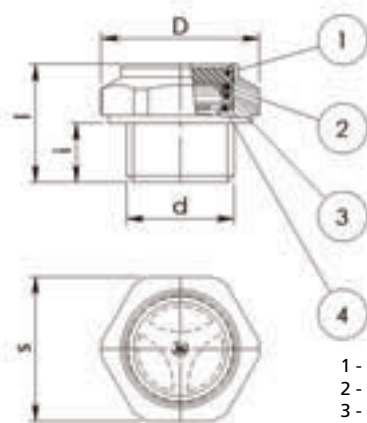
260070 ALUMINIUM-GLASS OIL LEVEL INDICATOR



Aluminum and glass. Tesnit BA50 gasket with graphite.
Withstands a temperature of 130°C and a pressure of up to 10 bar.

Code	F	h2	C
26007013000	G 1/4"	8	17
26007017000	G 3/8"	8	22
26007021000	G 1/2"	9	27
26007026000	G 3/4"	10	32
26007033000	G 1"	14	41
26007042000	G 1 1/4"	14	50
26007048000	G 1 1/2"	14	55
26007060000	G 2"	14	70
26007016000	M16x1,5	8	22
26007020000	M20x1,5	9	27
26007025000	M26x1,5	10	32
26007027000	M27x1,5	10	32
26007030000	M30x1,5	14	41

480022 STAINLESS STEEL LEVEL INDICATOR

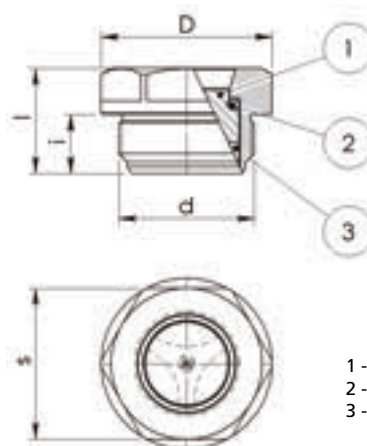


- 1 - Glass.
- 2 - Gasket.
- 3 - Spacer. (Steel).
- 4 - Contrast. (Aluminium alloy).

Code	d	i	s	l
48002206000	G 1/4"	8	17	17
48002209000	G 3/8"	9	22	18
48002212000	G 1/2"	9	27	20
48002219000	G 3/4"	11	32	22
48002225000	G 1"	10	40	22

Level gauge with stainless steel body.
Viewfinder window in glass and gasket in FKM GLT Viton.
Thanks to these characteristics, the working temperature is from -10°C to +150°C.
The maximum working pressure is 10 bar.
This product is used in gearbox, installations for solar and thermal energy, heat exchangers, pumps.

480022 HIGH PRESSURE STAINLESS STEEL LEVEL INDICATORS



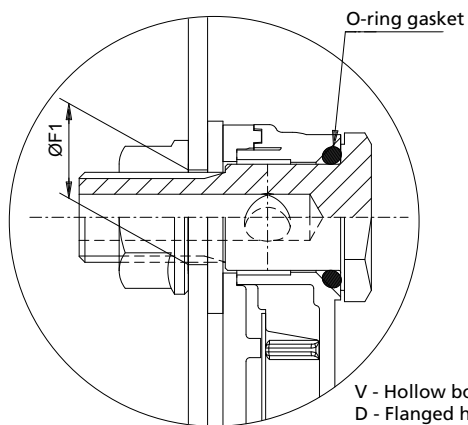
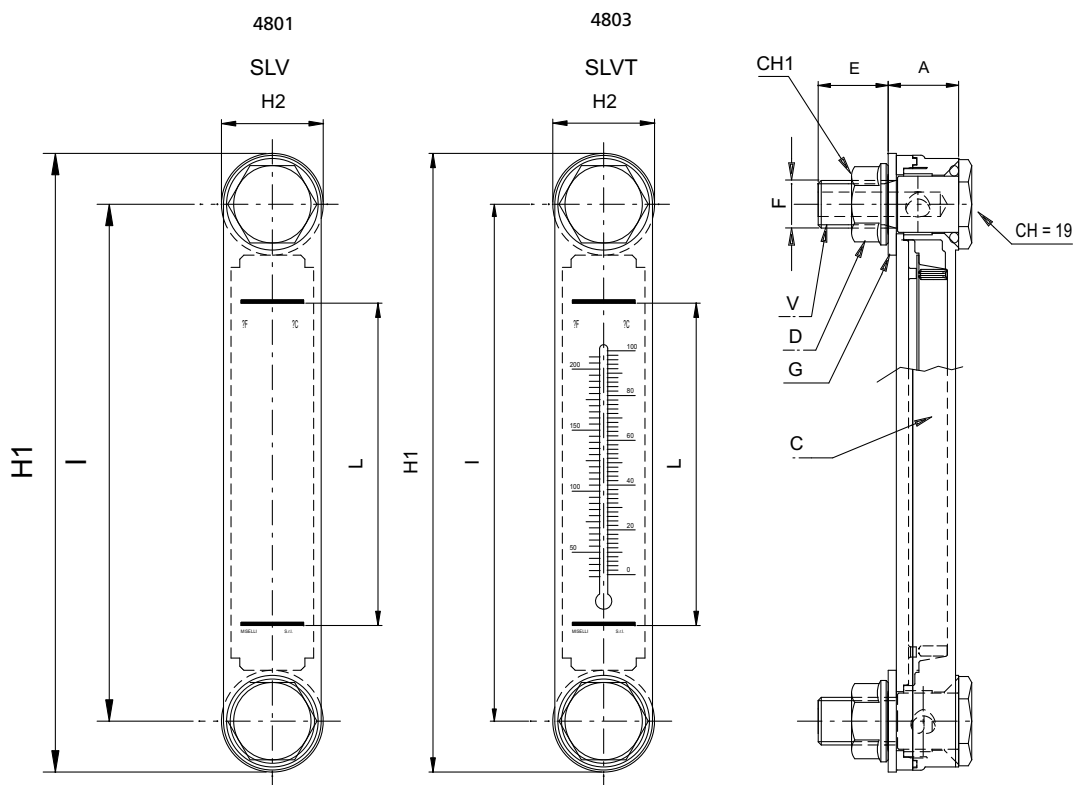
- 1 - Glass.
- 2 - Gasket.
- 3 - Spacer. (Steel).

Code	d	i	s	l
48002212001	G 1/2"	12	27	19
48002219001	G 3/4"	13	32	21
48002225001	G 1"	14	41	23

Level gauge with stainless steel body.
Viewfinder window in glass and gasket in FKM Viton.
Thanks to these characteristics, the working temperature is from -10°C to +150°C.
The maximum working pressure is 40 bar.
This product is suitable for applications that work at medium-high pressures.



Code without thermometer	Code with thermometer	I	H1	H2	F	E	A	L	CH1	ØF1
48000107000	48000307000	76	100	27	M10	19	23	39	15	10,2
48000107001	48000307001	76	100	27	M12	19	23	39	18	12,2
48000112000	48000312000	127	150	27	M12	19	23	80	18	12,2
48000112001	48000312001	127	150	27	M10	19	23	80	15	10,2



- V - Hollow bolt.
 D - Flanged hex nut.
 G - Flat NBR gasket.
 C - Transparent main body.

Made with polyamide resin of great transparency and excellent resistance both mechanically and to chemical agents, oils, gasoline and solvents. It is both UV resistant and retains the transparency under adverse weather conditions. Excellent dimensional stability at low and high temperatures. max temperature of work 90°C and 2 bar of internal pressure. The tightness (by rubber washers and O-rings) is achieved even if the surface of the tank-reservoir is not perfectly flat.

*The models with thermometer allow to control the level and the temperature, graduation 0/100°C and - 50/200°F. The sight glass can be mounted externally on a tank (by drilling two threaded holes M10 or M12) or through its internal part (performing two holes of diam. 1.5 or 12.5 and tolerance of 0.5mm in distance and using the supplied washer and nut).

Optional version in special resin resistant to fluids containing alcohol, also version in stainless steel.

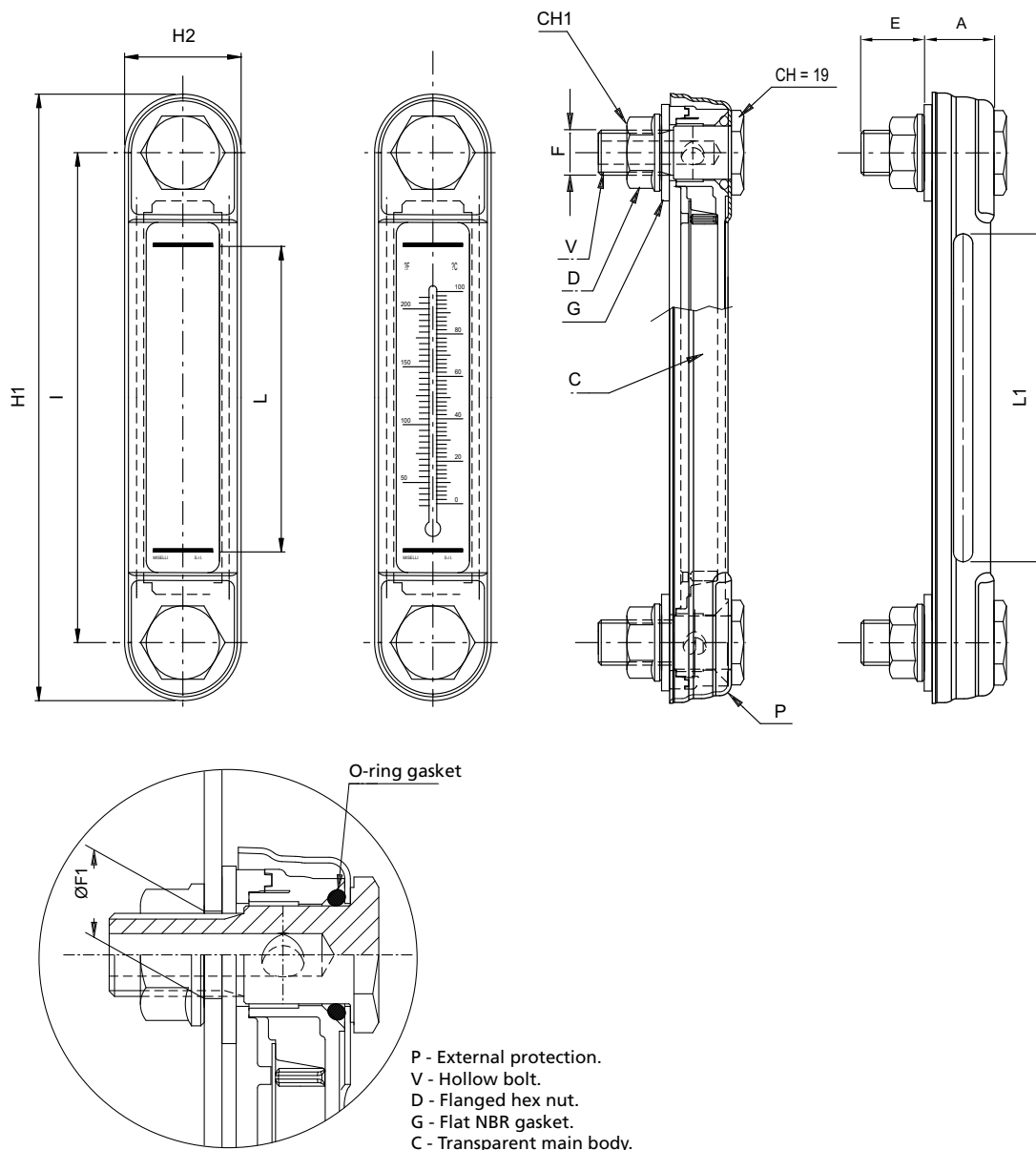


Code without thermometer	Code with thermometer	I	H1	H2	F	E	A	L	CH1	L1	ØF1
48001707000	48001707100	76	107	31	M10	17,5	24,5	39	15	34	10,2
48001707001	48001707101	76	107	31	M12	17,5	24,5	39	18	34	12,2
48001712001	48001712101	127	156	31	M10	17,5	24,5	80	15	85	10,2
48001712000	48001712100	127	156	31	M12	17,5	24,5	80	18	85	12,2

XL

XLT

XL-XLT/VL



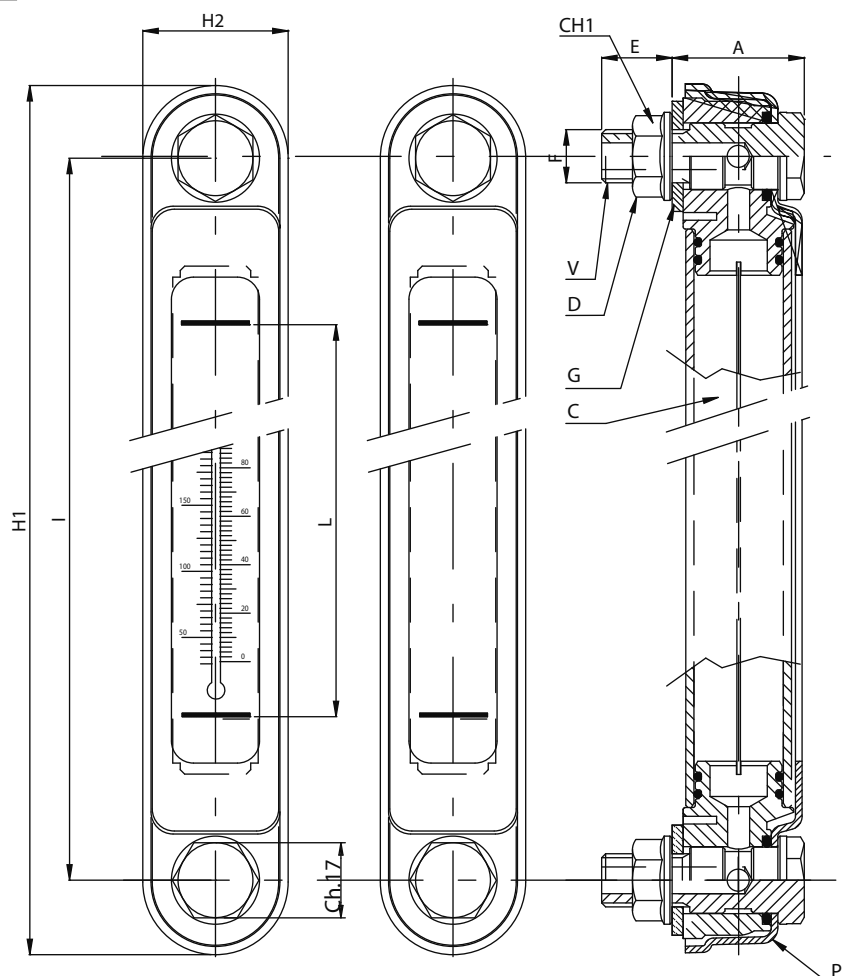
Vertical level indicator with transparent viewfinder molded in polyamide resin with optimal resistance both mechanical and chemical agents, oils, gasoline and solvents, and metallic protection of black color. It perfectly resists UV rays and maintains transparency under adverse weather conditions. Excellent dimensional stability at low and high temperatures. max temperature working temperature 90°C and 2 bar of internal pressure. The body is made up of two transparent parts assembled by welding ultrasonically to ensure a tight seal. The interior is equipped with a white screen with indications of min. and max.

Available version VL with openings that allow lateral vision. Versions made of special polyamide resin resistant to fluids containing alcohol. Also version with red ball inside that improves the visibility of the level. Optimum tightness achieved by rubber washers and O-rings. The viewer can be mounted on a tank by its external part (performing two threaded holes to M10 or M12) or through its internal part (performing two holes of diam. 10.2 or 12.2 using the supplied washer and nut) and a tolerance of 0.2mm in distance.

The models with thermometer allow to control the level and the temperature, graduation 0/100°C and - 50/200°F. For lengths of 300, 400 or 500 mm, XLV / XLVT versions are available.



Code without thermometer	Code with thermometer	I	H1	H2	F	E	A	L	CH1
48001725000	48001725100	254	286	34	M12	17	33	178	18



- P - External protection.
 V - Hollow bolt.
 D - Flanged hex nut.
 G - Flat NBR gasket.
 C - Transparent main body.

Vertical level indicators center to center distance 10" (254 mm).

Transparent inner tube made of polycarbonate (PC); suggested for application with mineral oils, hydraulic fluids, diesel and fluids containing glycols. Avoid contact with gasoline, hydrocarbons and solvents in general.

In the case of special applications or in the presence of aggressive liquids, the possibility of supplying the transparent tube made of borosilicate glass.

Maximum working temperature 90°C (194°F), maximum suggested pressure 1 bar (14.5 PSI).

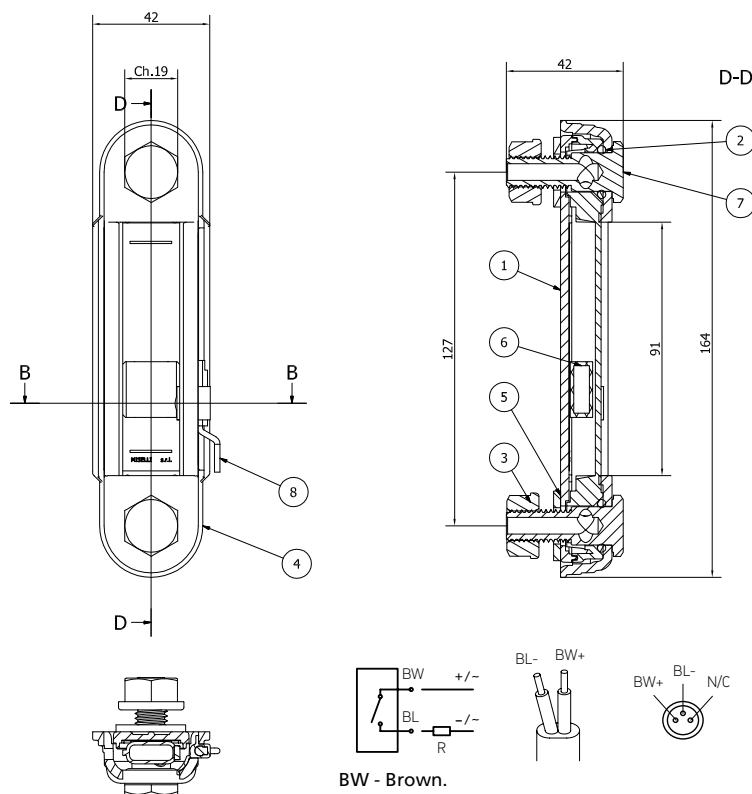
External protection made of steel with a black painted finish.

Mounting of the level gauge can be done externally by providing 2 M12 threaded holes at a center distance of 254mm, tolerance ± 0.2 mm. Alternatively they can be secured internally through two $\varnothing 12.5$ mm (-0.2) plain holes using the supplied flanged nuts. Suggested maximum tightening torque 5 Nm.

The XLT model is equipped with an internal thermometer scaled in Celsius 0-100°C and Fahrenheit 50-200°F. Possibility of mounting a maximum temperature sensor set at 60°C / 140°F - 70°C / 158°F - N.C. or not. - (see photo) that opens or closes the electrical circuit, when the established temperature threshold is reached.

**ELECTRICAL CHARACTERISTICS "REED" SWITCH**

Sensor type	REED 2 wires
Supply voltage	3÷30 Vac/dc
Electrical contact	NO Normally open
Switching current	0,2 AMPS
Power rating (Ohmic load)	6 W
Working temperature	-10°C/+70°C (14 F/158 F)
Protection degree	IP67



- 1 - Transparent main body.
- 2 - O-ring gasket.
- 3 - Flanged hex M12.
- 4 - Plastic guard.
- 5 - NBR gasket.
- 6 - Magnetic floating element.
- 7 - Hollow bolt M12.
- 8 - "REED" sensor with M8 male connector.

BW - Brown.
BL - Blue.
N/C - Not connected.

Thermoplastic level gauges made of transparent polyamide with good mechanical resistance, are compatible with mineral oil, gasoline, lubricant, petroleum, solvents and most chemical agents. Avoid contact with alcohol-based solutions and high-temperature antifreeze. For this type of application, use the special model/CX which is made of special resin resistant to fluids containing alcohol and antifreeze.

External plastic protection made of PA66 30% fiberglass.

The internal body of the level gauges consists of two transparent parts assembled and then sealed using an ultrasonic welding process, to ensure a leak-free seal around the body. Inside the transparent body there is a graduated white sticker made of "Vinile Cast" to improve the view of the level.

M12 zinc plated bolts and flanged nuts are standard (optional AISI 303 stainless steel bolts and nuts available, Buna 70 durometer flat gasket; maximum recommended tightening torque = 5Nm (3.7ft lbs).

Mounting can be done externally by providing 2 M12 threaded holes at 127mm (tolerance ± 0.2 mm); alternatively, they can be secured internally through 2 smooth holes $\varnothing 12.5$ mm (-0.2) using the flange nuts.

Maximum working temperature 80°C (176°F). Maximum working pressure 1 bar (14.7 PSI), (if used in pressurized tanks, contact our technical office).

The REED switch sensor is connected to the internal transparent tube, adjustable in height according to the level control requirements; sensor is supplied with power cable (length 30 cm / 0.98 ft) and M8 male connector; on request it is possible to provide a separate connection cable (length 250 cm / 8.2 ft) complete with M8 female connector.

Floating element made of technopolymer containing a magnetic element that closes the electrical contact when it reaches the "REED" level switch sensor.

Standard executions: with electrical contact normally open.

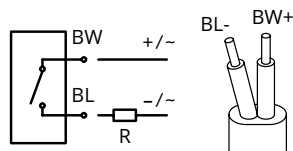
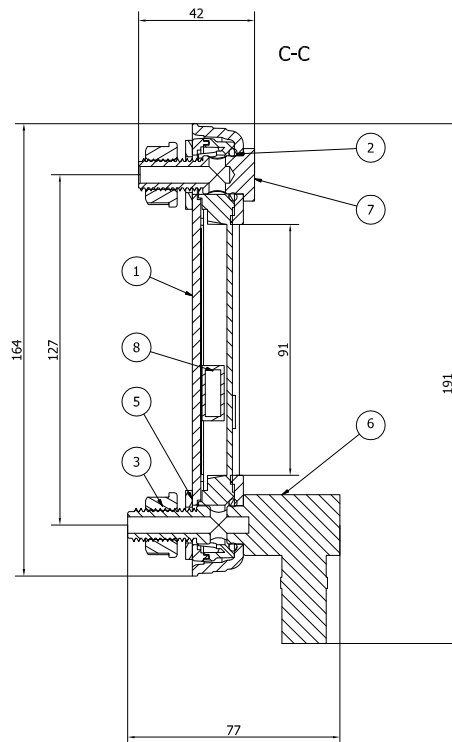
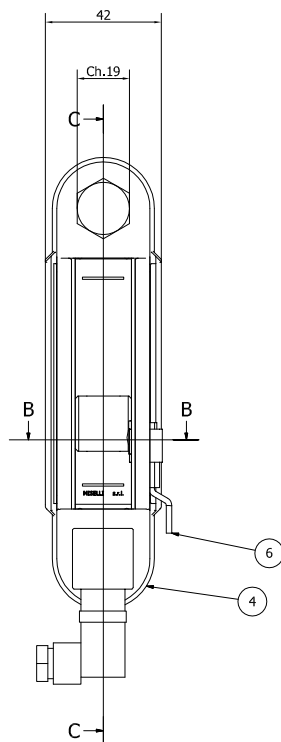
Operation characteristics: the XL127-PLAST-SL vertical level gauge, in addition to allowing a visual inspection, provides an electrical signal when the floating element reaches the minimum preset level, after closing the electrical circuit.

**ELECTRICAL CHARACTERISTICS "REED" SWITCH**

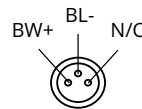
Sensor Type	REED 2 wires
Supply voltage	3/30 Vac/dc
Electrical contact	NO Normally open
Switching current	0,2 AMPS
Power rating (Ohmic load)	6 W
Working temperature	-10°C / +70°C (14 F/158 F)

ELECTRICAL CHARACTERISTICS MAX TEMPERATURE ELECTRICAL SENSOR

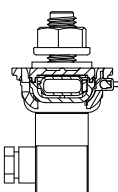
Sensor Type	Bimetal contact
Power supply	AC/DC
Electrical contact	NO Normally open NC Normally closed
Max. applicable voltage	250 Vac 10A
Protection degree	IP65
Calibration	60°C/140 F - 70°C/158 F
Accuracy	± 5°C (data referred to a room temp. = 20°C / 68 F)



BW - Brown.
BL - Blue.
N/C - Not connected.



B-B



- 1 - Transparent main body.
- 2 - O-ring gasket.
- 3 - Flanged hex M12.
- 4 - Plastic guard.
- 5 - NBR gasket.
- 6 - "REED" sensor with M8 male connector.
- 7 - Hollow bolt M12.
- 8 - Magnetic floating element.

Thermoplastic level gauges made of **transparent polyamide** with good mechanical resistance are compatible with mineral oil, gasoline, lubricant, petroleum, solvents and most chemical agents; Avoid contact with alcohol-based solutions and high-temperature antifreeze. For these types of applications, use our **model/CX**, which is made of special resin resistant to fluids containing alcohol and antifreeze. External plastic protection made of **PA66 30% fiberglass**.

The internal body of the level gauges consists of two transparent parts assembled and then sealed using an ultrasonic welding process, to ensure a leak-free seal around the body. Inside the transparent body there is a graduated white sticker made of "Vinile Cast" to improve the view of the level.

M12 **zinc plated** bolts and flanged nuts are standard (**optional AISI 303** stainless steel bolts and nuts available, **70 durometer flat gasket**; maximum recommended tightening torque = **5 Nm (3.7 lb-ft)**. Mounting can be done externally by providing 2 M12 threaded holes at 127mm (tolerance $\pm 0.2\text{mm}$); alternatively, they can be secured internally through 2 smooth holes $\varnothing 12.5\text{ mm }(-0.2)$ using the flange nuts.

Maximum working temperature **80°C (176°F)**.

Maximum working pressure **1 bar (14.7 PSI)**, (if used in pressurized tanks, contact our technical office). The **REED switch sensor** is connected to the internal transparent tube, adjustable in height according to the level control requirements; sensor is supplied with power cable (length 30 cm / 0.98 ft) and M8 male connector; On request, it is possible to provide a separate connection cable (length 250 cm / 8.2 ft) complete with M8 female connector.

Floating element made of technopolymer containing a magnetic element that closes the electrical contact when it reaches the "REED" level switch sensor.

Maximum temperature electrical sensor (**calibrated at 60°C-70°C / 140-158°F**) incorporated in the galvanized M12 bolt (IP65 protection degree) with DIN rotary connector.

Standard executions: **XL127-PLAST-SL-ST-NO** (electrical contact normally open on the temperature sensor) **XL127-PLAST-SL-ST-NC** (electrical contact normally closed on temperature sensor).

Operation characteristics: the vertical level indicator XL127- PLAST-SL-ST, in addition to allowing a visual inspection, provides an electrical signal when the required temperature of the fluid inside the tank is reached (under normal use conditions). ambient temperature of approximately 20°C/68°F, and also provides an electrical signal when the floating element reaches the preset minimum level.

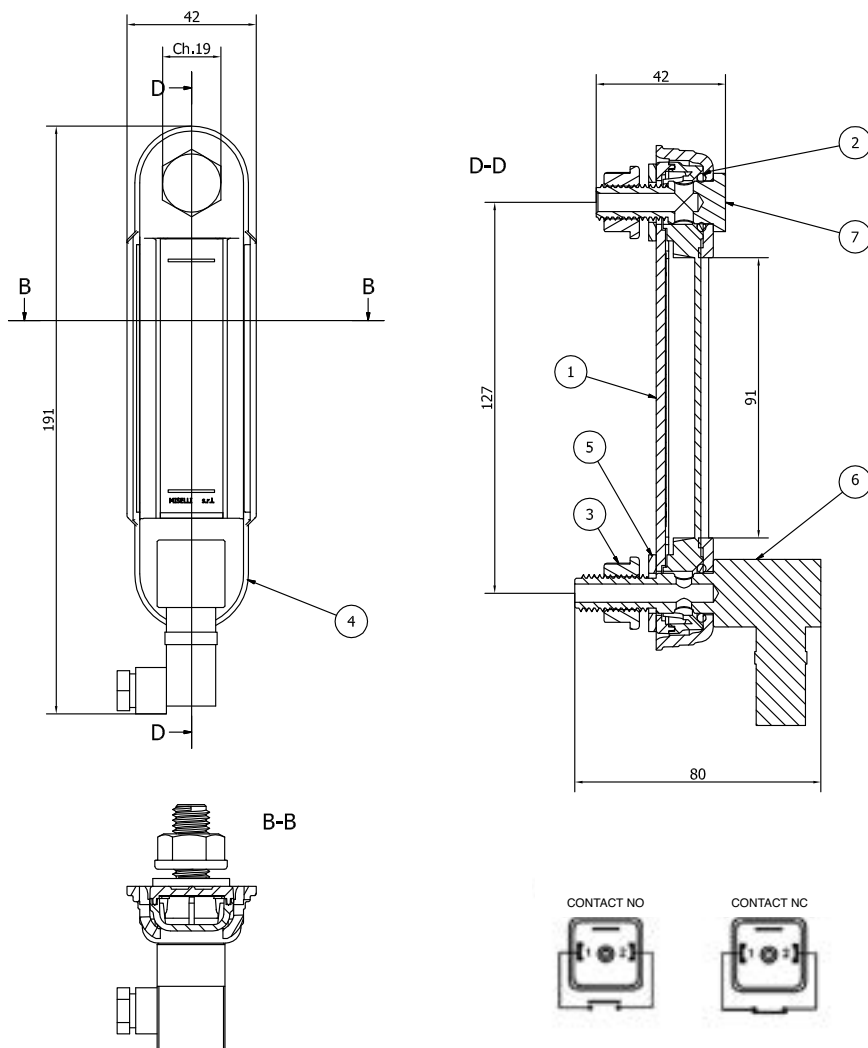
XL127-PLAST-SL-ST-NO: the level sensor closes the electrical circuit when the preset minimum level is reached; The maximum temperature sensor closes the electrical circuit at the preset threshold temperature.

XL127-PLAST-SL-ST-NC: the level sensor closes the electrical circuit when it reaches the minimum preset level; The maximum temperature sensor opens the circuit at the preset threshold temperature.



ELECTRICAL CHARACTERISTICS MAX TEMP. ELECTRICAL SENSOR

Power supply	AC/DC
Electrical contact	NO Normally open NC Normally closed
Max. applicable voltage	250 Vac 10A
Protection degree	IP65
Calibration	60°C/140 F - 70°C/158 F
Accuracy	± 5°C (data referred to a room temp. = 20°C/68 F)



- 1 - Transparent main body.
- 2 - O-ring gasket.
- 3 - Flanged hex M12.
- 4 - Plastic guard.
- 5 - NBR gasket.
- 6 - Max. temperature sensor.
- 7 - Hollow bolt M12.

Thermoplastic level gauges made of **transparent polyamide** with good mechanical resistance are compatible with mineral oil, gasoline, lubricant, petroleum, solvents and most chemical agents; Avoid contact with alcohol-based solutions and high-temperature antifreeze. For this type of application, use the **special model/CX** which is made of special resin resistant to fluids containing alcohol and antifreeze.

External plastic protection made of **PA66 30% fiberglass**.

The internal body of the level gauges consists of two transparent parts assembled and then sealed using an ultrasonic welding process, to ensure a leak-free seal around the body. Inside the transparent body there is a white aluminum screen to improve the view of the level.

M12 **zinc plated bolts** and flanged nuts are standard (optional AISI 303 stainless steel bolts and nuts available, **70 durometer flat gasket**; maximum tightening torque recommended = **5Nm (3.7ft lbs)**).

Mounting can be done externally by providing 2 M12 threaded holes at 127mm (tolerance ± 0.2mm); alternatively, they can be secured internally through 2 smooth holes Ø 12.5 mm (-0.2) using the flange nuts.

Maximum working temperature **80°C (176°F)**. Maximum working pressure **1 bar (14.7 PSI)**, (if used in pressurized tanks, contact our technical office).

Maximum temperature electrical sensor (**calibrated at 60°C-70°C / 140-158°F**) incorporated in the galvanized M12 bolt (IP65 protection degree) with DIN rotary connector.

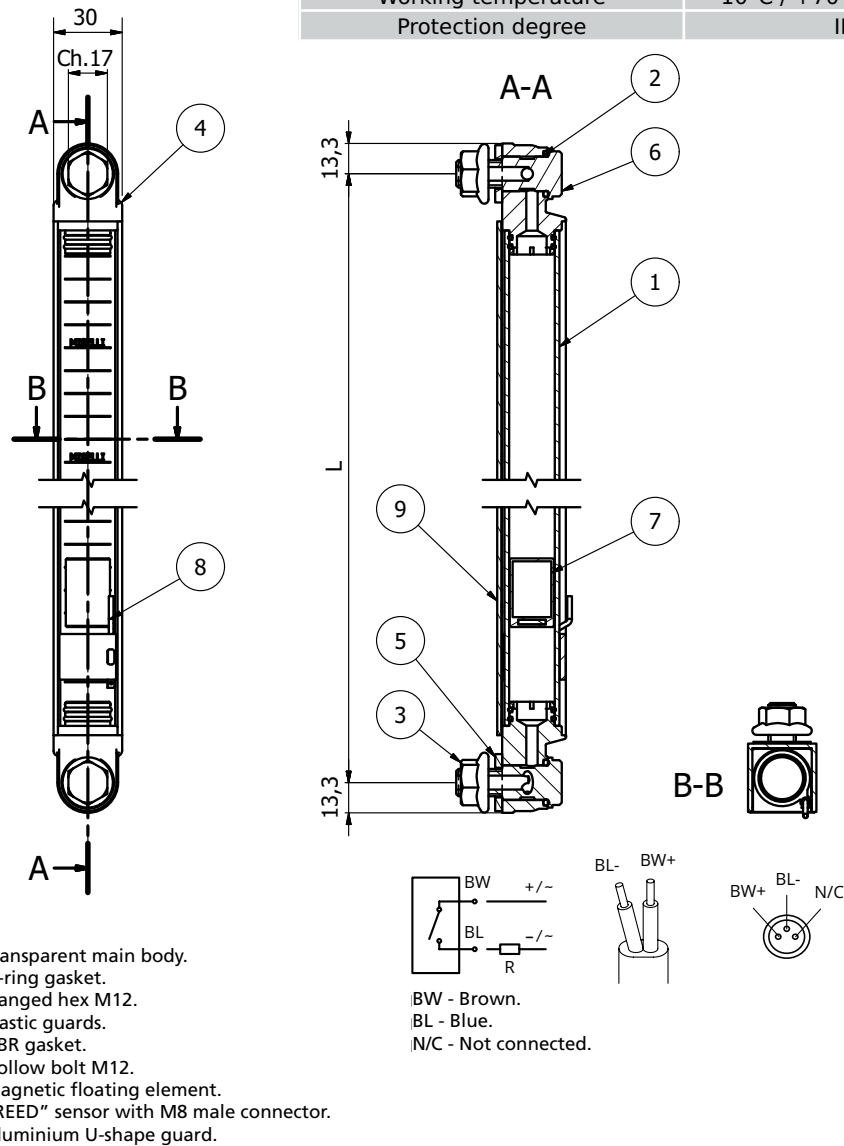
Standard executions: **XL/127-PLAST-ST-NO** (normally open electrical contact) - **XL/127-PLAST-ST-NC** (normally closed electrical contact).

Operation characteristics: the vertical level indicator XL / 127- PLAST-ST, in addition to allowing a visual inspection, provides an electrical signal when the required temperature of the fluid inside the tank is reached (under normal use conditions). room temperature of about 20°C/68°F); in the XL / 127-PLAST -ST-NO model the electric circuit closes once the specified temperature is reached, in the XL / 127-PLAST -ST-NC model the electric circuit opens when the specified temperature is reached.



ELECTRICAL CHARACTERISTICS "REED" SWITCH

Sensor Type	REED 2 wires
Supply voltage	3/30 Vac/dc
Electrical contact	NO Normally open
Switching current	0,2 AMPS
Power rating (Ohmic load)	6 W
Working temperature	-10°C / +70°C (14 F/158 F)
Protection degree	IP67



Vertical level gauges with **external aluminum shield**, standard center-to-center distance 300-400-500 mm; consult our technical office for custom lengths.

Black **polyamide PA 66** end caps, transparent polycarbonate tube; Behind the tube is a graduated contrast screen for a visual check of the liquid level.

Aluminum shield can be rotated 90 degrees when needed for side view.

Zinc plated M12 bolts and nuts (available on request in **AISI 303 stainless steel**), **flat gasket with 70 durometer**; Suggested maximum tightening torque = **5 Nm (3.7 lb-ft)**.

Suggested for applications with mineral oils, hydraulic fluids, diesel and fluids containing glycols. Avoid contact with gasoline, hydrocarbons and solvents (contact our technical office for compatibility with other chemical agents).

Mounting can be done externally by providing 2 M12 threaded holes at center to center distance (tolerance $\pm 0.5\text{mm}$) or internally secured via 2 smooth holes $\varnothing 12.5\text{mm}$ (-0.2), using the flanged nuts.

Maximum working temperature **80°C / 176°F** (with hydraulic fluid), maximum suggested pressure **1 bar / 14.5 PSI** (for use on pressure tanks, contact our technical office).

The **REED switch sensor** is connected to the internal transparent tube, adjustable in height according to the customer's level requirements; Minimum budget placed about 50 mm from the center of the lower bolt. The sensor is supplied with power cable (length 30 cm / 0.98 ft) and M8 male connector; On request, it is possible to provide a separate connection cable (length cm 250 / 8.2 feet) complete with M8 female connector. Possibility also of applying more level sensors positioned at different heights.

Technopolymer **floating element** containing a magnetic element that closes the electrical contact when it reaches the REED level switch sensor.

-Standard execution: with electrical contact **normally open**.

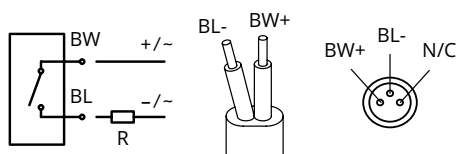
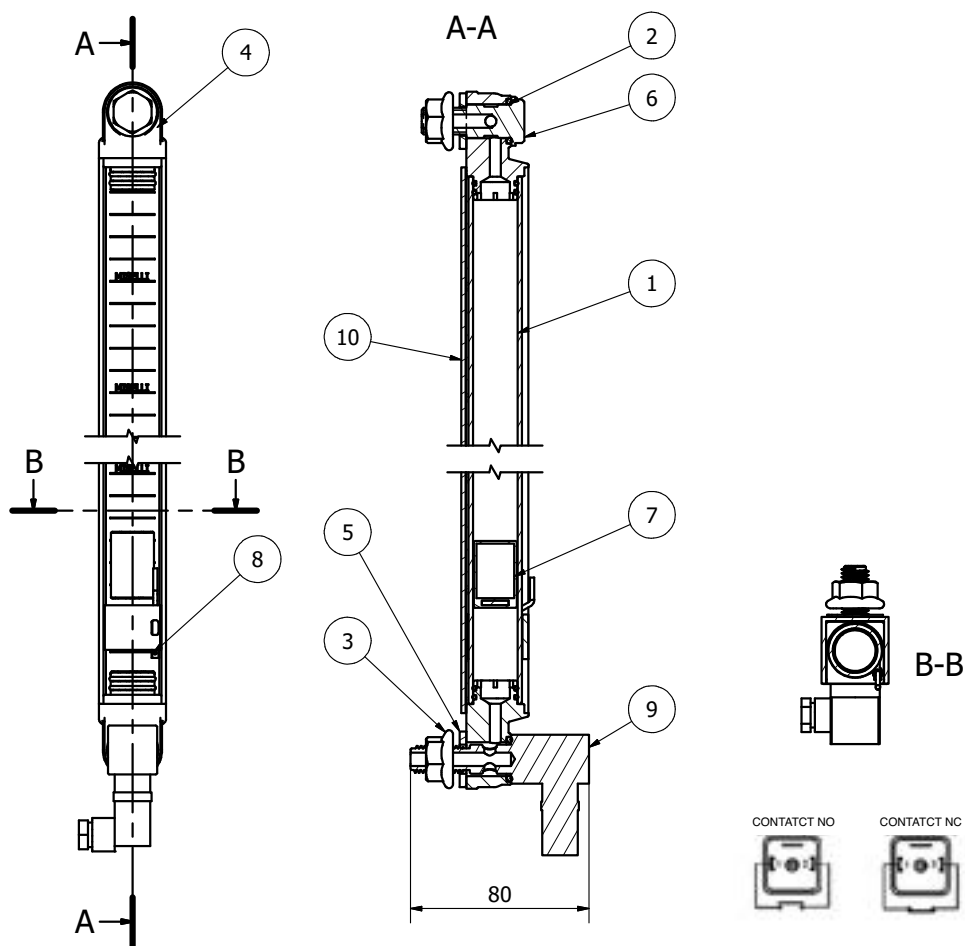
Operating characteristics: the XLV-SL vertical level indicator, in addition to allowing a visual inspection, provides an electrical signal when the floating element reaches the minimum preset level, after closing the electrical circuit.

**ELECTRICAL CHARACTERISTICS "REED" SWITCH**

Sensor type	REED 2 wires
Supply voltage	3/30 Vac/dc
Electrical contact	NO Normally open
Switching current	0,2 AMPS
Power rating(Ohmic load)	6 W
Working temperature	-10°C / +70°C (14 F/158 F)

ELECTRICAL CHARACTERISTICS MAX TEMPERATURE ELECTRICAL SENSOR

Sensor type	Bimetal contact
Power supply	AC/DC
Electrical contact	NO Normally open NC Normally closed
Max. applicable voltage	250 Vac 10A
Protection degree	IP65
Calibration	60°C/140 F - 70°C/158 F
Accuracy	± 5°C (data referred to a room temp. = 20°C/68°F)



BW - Brown.
BL - Blue.
N/C - Not connected.

- 1 - Transparent polycarbonate main body.
- 2 - O-ring gasket.
- 3 - Flanged hex M12.
- 4 - Plastic guard.
- 5 - NBR gasket.
- 6 - Hollow bolt M12.
- 7 - Magnetic floating element.
- 8 - "REED" sensor with M8 male connector.
- 9 - Max. temperature sensor.
- 10 - U external aluminium guard.

Vertical level gauges with **external aluminum shield**, standard center-to-center distance 300-400-500 mm; consult our technical office for custom lengths.

Black **polyamide PA 66** end caps, **transparent polycarbonate tube**; Behind the tube is a graduated contrast screen for a visual check of the liquid level.

Aluminum shield can be rotated 90 degrees when needed for side view. **Zinc plated** M12 bolts and nuts (available on request in **AISI 303 stainless steel**), flat gasket with 70 durometer; Suggested maximum tightening torque = **5 Nm (3.7 lb-ft)**.

Suggested for applications with mineral oils, hydraulic fluids, diesel and fluids containing glycols. Avoid contact with gasoline, hydrocarbons and solvents (contact our technical office for compatibility with other chemical agents).

Mounting can be done externally by providing 2 M12 threaded holes at center to center distance (tolerance $\pm 0.5\text{mm}$) or internally secured via 2 smooth holes $\varnothing 12.5\text{mm}$ (-0.2), using the flanged nuts. Maximum working temperature **80°C/176 F** (with hydraulic fluid), maximum suggested pressure **1 bar/14.5 PSI** (for use on pressure tanks, contact our technical office).

REED switch sensor is connected to the internal transparent tube, adjustable in height according to the level control requirements; sensor is supplied with power cable (length 30 cm / 0.98 ft) and M8 male connector; On request, it is possible to provide a separate connection cable (length 250 cm / 8.2 ft) complete with M8 female connector.

Floating element in technopolymer containing a magnetic element that closes the electrical contact when it reaches the "REED" level switch sensor.

Maximum temperature electrical sensor (calibrated at **60°C-70°C / 140-158 F**) incorporated in the galvanized M12 bolt (IP65 protection degree) with DIN rotary connector.

Standard executions: **XL127-PLAST-SL-ST-NO** (electrical contact normally open on the temperature sensor) **XL127-PLAST-SL-ST-NC** (electrical contact normally closed on temperature sensor).

Operation characteristics: the vertical level indicator XL127-PLAST-SL-ST, in addition to allowing a visual inspection, provides an electrical signal when the required temperature of the fluid inside the tank is reached (in conditions of use at room temperature of approximately 20°C/68F), and also provides an electrical signal when the floating element reaches the preset minimum level.

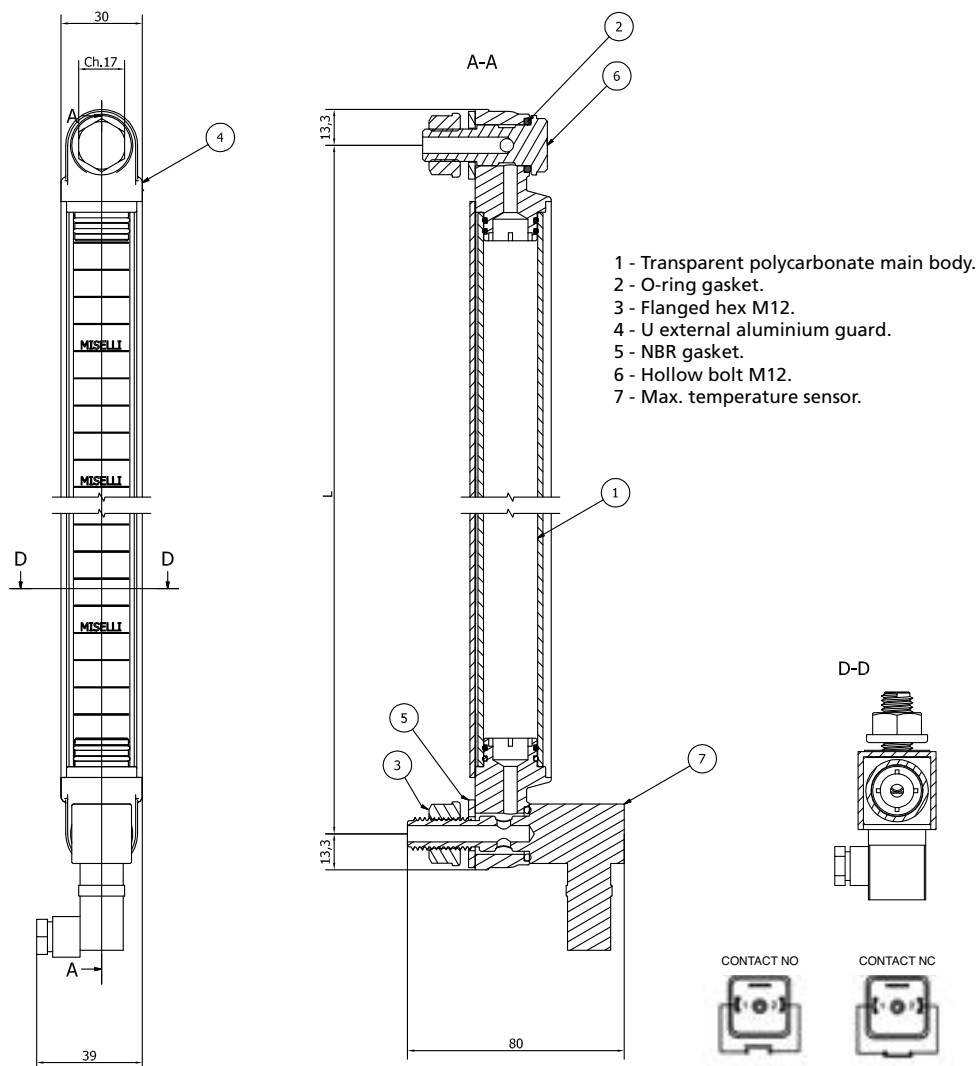
XL127-PLAST-SL-ST-NO: the level sensor closes the electrical circuit when the preset minimum level is reached; The maximum temperature sensor closes the electrical circuit at the preset threshold temperature.

XL127-PLAST-SL-ST-NC: the level sensor closes the electrical circuit when it reaches the minimum preset level; The maximum temperature sensor opens the circuit at the preset threshold temperature.



ELECTRICAL CHARACTERISTICS MAX TEMPERATURE ELECTRICAL SENSOR

Sensor type	Bimetal contact
Power supply	AC/DC
Electrical contact	NO Normally open NC Normally closed
Max. applicable voltage	250 Vac 10A
Protection degree	IP65
Calibration	60°C/140 F - 70°C/158 F
Accuracy	± 5°C (data referred to a room temp. = 20°C/68°F)



Vertical level gauges with **external aluminum shield**, standard center-to-center distance 300-400-500 mm; consult our technical office for custom lengths.

Black **polyamide PA 66** end caps, **transparent polycarbonate tube**; Behind the tube is a graduated contrast screen for a visual check of the liquid level.

Aluminum shield can be rotated 90 degrees when needed for side view. **Zinc plated M12 bolts and nuts** (available on request in **AISI 303 stainless steel**), **flat gasket with 70 durometer**; Suggested maximum tightening torque = **5 Nm (3.7 lb-ft)**.

Suggested for applications with mineral oils, hydraulic fluids, diesel and fluids containing glycols. Avoid contact with gasoline, hydrocarbons and solvents (contact our technical office for compatibility with other chemical agents).

Mounting can be done externally by providing 2 M12 threaded holes at center to center distance (tolerance ± 0.5mm) or internally secured via 2 smooth holes Ø 12.5mm (-0.2), using the flanged nuts.

Maximum working temperature **80°C/176 F** (with hydraulic fluid), maximum suggested pressure **1 bar/14.5 PSI** (for use on pressure tanks, contact our technical office).

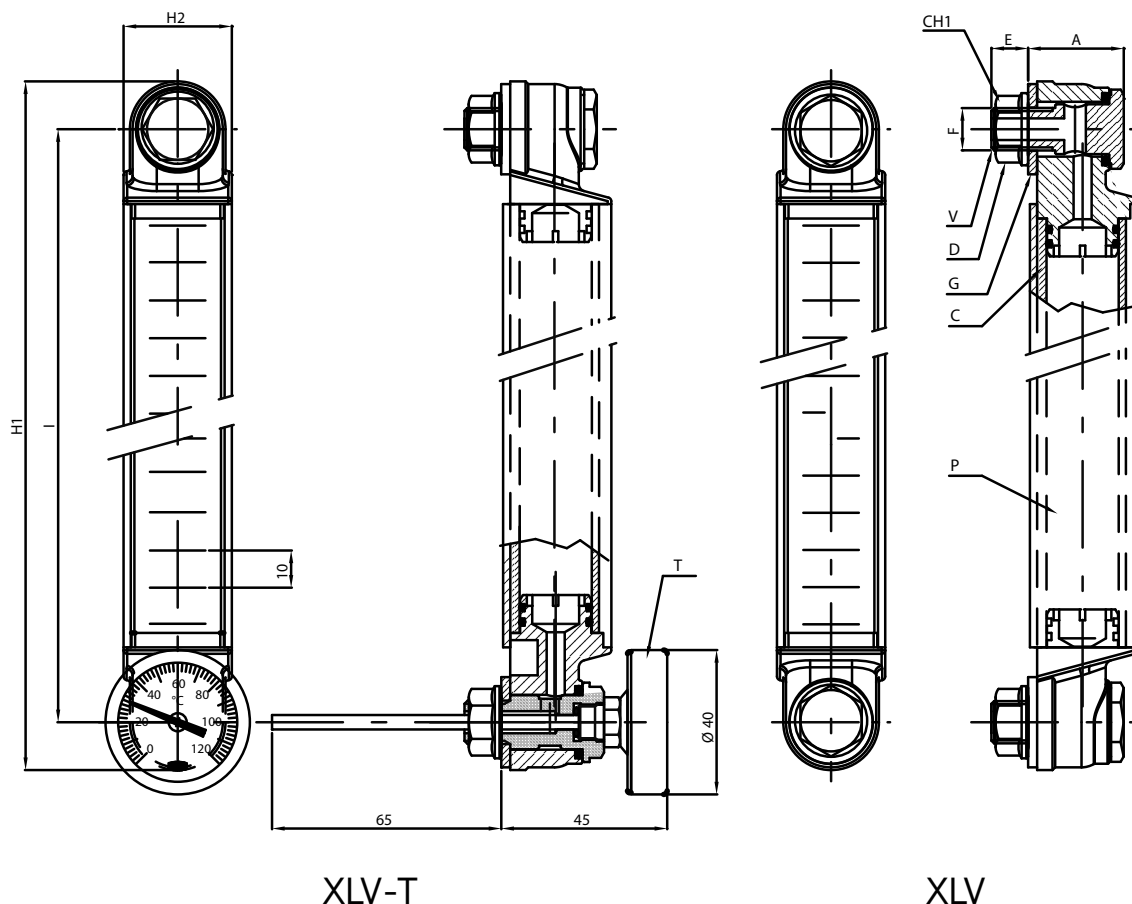
Maximum temperature electrical sensor (calibrated at **60°C-70°C / 140-158°F**) incorporated in the galvanized M12 bolt (IP65 protection degree) with DIN rotary connector.

Standard executions: **XLV-ST-NO** (electrical contact normally open), **XLV-ST-NC** (electrical contact normally closed).

Operation characteristics: the vertical level indicator XLV - ST, in addition to allowing a visual inspection, provides an electrical signal when the required temperature of the fluid inside the tank is reached (in conditions of use at room temperature of approximately 20°C/68°F); in the XLV -STNO model, the electrical circuit closes once it reaches the preset temperature, in the XLV -ST-NC model the electrical circuit opens once it reaches the preset temperature.



Code without thermometer	Code with thermometer	I	H1	H2	E	A	CH1	F
48001730000	-	300	325	30	16,5	30	18	M12
48001740000	-	400	425	30	16,5	30	18	M12
48001750000	-	500	525	30	16,5	30	18	M12



V - Hollow bolt.
D - Flanged hex nut.
T - Probe thermometer.

G - Flat gasket.
C - Transparent tube.
P - Aluminum U-shape external case.

Vertical level indicators with external aluminum protector; standard center to center distance 300-400-500 mm; Consult our commercial / technical office for custom lengths.

Polyamide PA66 end caps, black colour, transparent polycarbonate tube; Behind the tube is a graduated contrast screen for an accurate view of the liquid level.

The XLV-T model is equipped with a probe thermometer graduated from 0°-120°C (30-250F). Aluminum shield can be rotated 90 degrees when needed for side view.

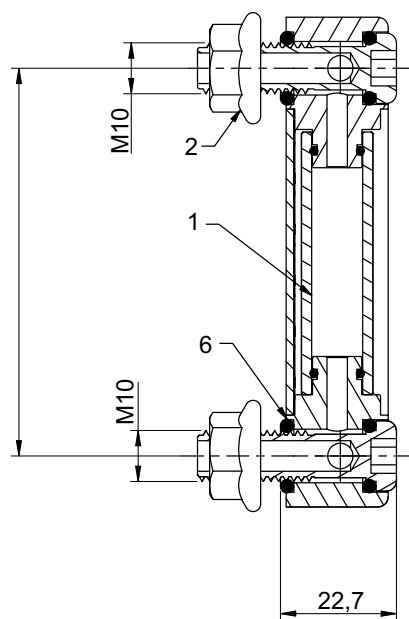
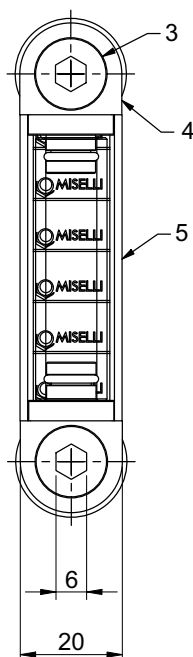
M12 zinc plated bolts and nuts (available on request in stainless steel); Buna flat gasket on Shore 70 durometer. Mounting of the level gauge can be done externally by providing 2 M12 threaded holes at a center distance of 254mm, tolerance ± 0.5 mm. Alternatively, they can be secured internally through two $\varnothing 12.5$ mm (-0.2) plain holes using the supplied flange nuts. Suggested maximum tightening torque 5 Nm.

Maximum working temperature 90°C (194 F), maximum suggested pressure 1 bar (14.5 PSI). For use in pressure tanks, contact our technical office.

Suggested for application with mineral oils, hydraulic fluids, diesel and fluids containing glycols. Limited resistance to unleaded fuel and diesel. Avoid contact with alcohol based solutions and antifreeze fluids at high temperature.(ask our technical department for resistance to other chemical agents).



- 1 - Transparent tube.
- 2 - Flanged Hex nut.
- 3 - Hollow bolt.
- 4 - Assembling end cap.
- 5 - Aluminium external case.
- 6 - O-ring seals.



Vertical level indicators with external aluminium guard; center-to-center distance customizable on customer request, minimum size 76mm.

Plastic end caps made from Polyamide transparent in order to optimize the visibility of the internal fluid.

Transparent central tube made from polycarbonate, suitable for application with mineral and synthetic oils, hydraulic fluids, fluids containing glycole (very limited resistance to unleaded fuel and diesel); behind the tube is placed a graduated contrast screen to allow an accurate view of the level.

White zinc plated bolts M10 and nuts: Buna seals (O-ring) NBR 70 Shore durometer.

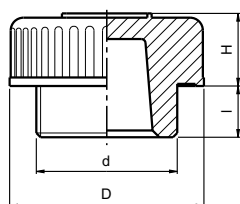
The mounting of the level gauge can be made externally by providing two threaded holes M10 on the center distance, tolerance $\pm 0,05$ mm. Max tightening torque suggested 5Nm.

On enquiry the transparent tube can be supplied made from Pyrex glass and seals in FKM VITON for those application with aggressive liquids.

Max working temperature 90°C (194°F) polycarbonate model and 120°C (248°F) for Pyrex glass model.

This indicators have been designed for small dimensions applications where it is necessary to optimize the external spaces of the tank.

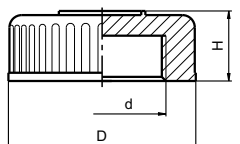
110087M OIL PLUG M



Made of black duroplast.

Code	D	H	d	I
11008746503	46	16,5	G 1"	12

110087H OIL PLUG H

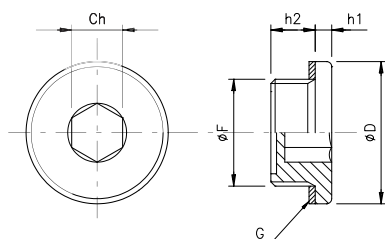


Made of black duroplast.

Code	D	H	d
11008746303	46	16,5	G 1"



Code	F	Ch	D	h1	h2	P (Nm)	P (50%FV) (Nm)
48003106000	G 1/4"	6	18	3	8	3÷5	5÷7
48003109000	G 3/8"	8	22,5	3,5	10,5	6÷8	8÷10
48003112000	G 1/2"	10	28	4	10	8÷10	10÷12
48003119000	G 3/4"	12	35	4	10,5	10÷12	18÷20
48003114000	M 14x1,5	6	20	2,5	9	3÷5	5÷7
48003116000	M 16x1,5	8	22,5	3,5	10,5	6÷8	8÷10
48003118000	M 18x1,5	10	26	3	10	7÷9	10÷12
48003120000	M 20x1,5	10	28	3,5	10,5	7÷9	10÷12
48003122000	M 22x1,5	10	28	3,5	10,5	7÷9	10÷12
48003126000	M 26x1,5	12	35	3	11,5	10÷12	18÷20



G - Flat fiber gasket

Threaded cap with internal hexagon to occupy the minimum external space.

Made with reinforced thermoplastic resin PA66 with 30% fiberglass that guarantees its optimal mechanical resistance at high and low temperatures.

Asbestos-free fiber flat retaining washer (on request it can be supplied with an anti-oil rubber O-ring).

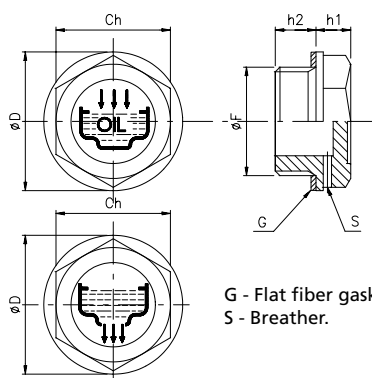
max temperature of use 100°C.

P - Max. tightening torque for mounting.

Upon request, they can be manufactured in polyamide reinforced with 50% fiberglass to increase mechanical resistance and max. working temperature. up to 120°C continuously and peaks of 150°C.



Code fill without breather	Code fill with breather	Code drain	F	Ch	D	h2	h1	P (Nm)
48003206011	48003206021	48003206031	G 1/4"	17	19,5	9	7	5
48003209011	48003209021	48003209031	G 3/8"	18	22	10	7,5	8
48003212011	48003212021	48003212031	G 1/2"	23	28	11	7,5	9
48003219011	48003219021	48003219031	G 3/4"	30	34	11	9	11
48003225011	48003225021	48003225031	G 1"	35	42	12	10,5	20
48003231011	48003231021	48003231031	G 1 1/4"	42	51	13,5	12	-
48003237011	48003237021	48003237031	G 1 1/2"	50	58	16	10	-
48003250011	48003250021	48003250031	G 2"	64	74	16	12	-
48003210011	48003210021	-	M 10x1,5	17	19,5	9	7	5
48003211011	48003211021	-	M 12x1,5	17	19,5	9	7	5
48003214011	48003214021	48003214031	M 14x1,5	17	19,5	9	7	5
48003216011	48003216021	48003216031	M 16x1,5	18	21	10	7,5	6
48003218011	48003218021	48003218031	M 18x1,5	21	26	10	7,5	7
48003220011	48003220021	48003220031	M 20x1,5	24	28	10	8	8
48003222011	48003222021	48003222031	M 22x1,5	24	28	11	8	10
48003240011	48003240021	48003240031	M 40x1,5	42	52	13	10	-



G - Flat fiber gasket.
S - Breather.

Hexagonal head threaded cap made of thermoplastic material PA66 black color with excellent mechanical resistance. Working temperature from -30°C to +100°C. Excellent dimensional stability and very good impact resistance.

Asbestos-free fiber flat retention washer. FASIT 202 (On request it can be supplied with NBR rubber).

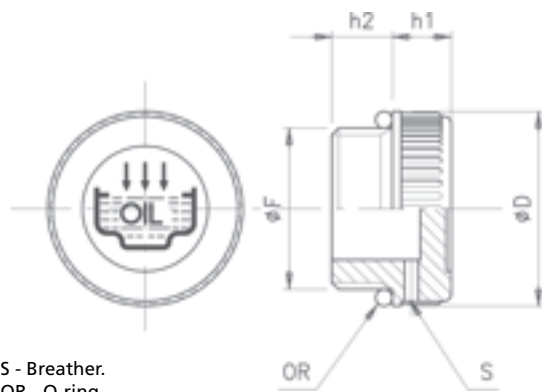
On request and for adequate quantities, available in red.

The oil filler caps are supplied with the filler symbol and the inscription OIL.

The discharge plug is supplied simply with the discharge symbol.

The breather with a Ø of 2 to 3.5 mm, is located in the hexagonal head.

Nm = Max. tightening torque. for mounting.



S - Breather.
OR - O-ring.

Threaded plugs with knurled head made of thermoplastic (Polyamide 66) that guarantees high mechanical resistance at low and high temperatures (working temperature from -30°C to +100°C), dimensional stability and shock resistance.
O-ring NBR 70 Shore.
Standard colour: Black.

The TCZ has the graphic symbol and the word OIL at the top; The TCZS model has a vent hole located on the side of the hexagon with a diameter of 2 to 3.5 mm, depending on the size of the plug.

Code without breather	Code with breather	F	D	h2	h1
48003506101	48003506201	G 1/4"	20	9	9
48003509101	48003509201	G 3/8"	20,5	10	9
48003512101	48003512201	G 1/2"	28	10,5	10,5
48003519101	48003519201	G 3/4"	31	11	12
48003525101	48003525201	G 1"	39	12	12
48003531101	48003531201	G 1 1/4"	49	13,5	13
48003538101	48003538201	G 1 1/2"	55	14,5	14,7
48003550011	48003550201	G 2"	68,5	16	15
48003514101	48003514201	M 14x1,5	20	9	9
48003516101	48003516201	M 16x1,5	20	10	9
48003518101	48003518201	M 18x1,5	28	10	10,5
48003520101	48003520201	M 20x1,5	28	10	10,5
48003522101	48003522201	M 22x1,5	28	10	10,5



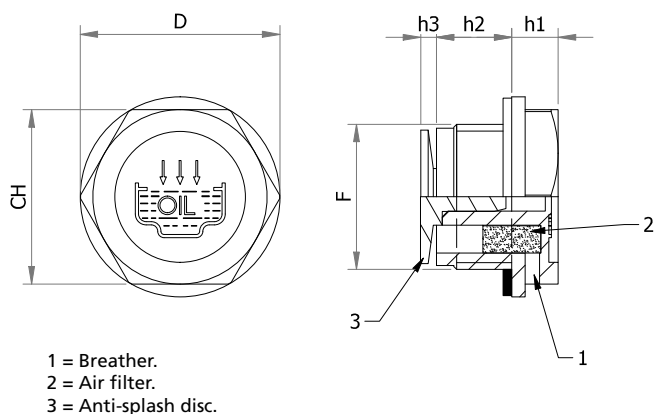
Code without filter	Code with filter	F	CH	D	h2	h1	h3	Nm
48003706011	-	G 1/4"	17	19,5	9	7	3	5
48003709011	-	G 3/8"	18	22	10	7,5	3	8
48003712011	48003712021	G 1/2"	23	28	11	7,5	3	9
48003719011	48003719021	G 3/4"	30	34	11	9	4	11
48003725011	48003725021	G 1"	36	42	12	10,5	4	20
48003731011	48003731021	G 1 1/4"	42	51	13,5	12	4	-
48003714011	-	M 14x1,5	17	19,5	9	7	3	5
48003716011	-	M 16x1,5	18	21	10	7,5	3	6
48003718011	-	M 18x1,5	21	26	10	7,5	3	7
48003720011	48003720021	M 20x1,5	24	28	10	8	3	8
48003722011	48003722021	M 22x1,5	24	28	11	8	3	10

Filler cap with hexagonal head and anti-splash disc. Made of thermoplastic (Polyamide 66) that ensures high mechanical resistance at high and low temperatures, dimensional stability and shock resistance.

Working temperature from -30°C to +100°C.
Fiber joint.

These closures have the graphic filling symbol and the word OIL marked on top; the breather is located on the side and has a diameter between 2mm or 3.5mm depending on the size of the cap.

The anti-splash disc is located under the thread and reduces oil spillage when the tank is subjected to strong shocks.
Models with polyurethane foam filter protect the oil from being contaminated by pollution from the outside environment.
Nm=maximum applicable tightening torque.

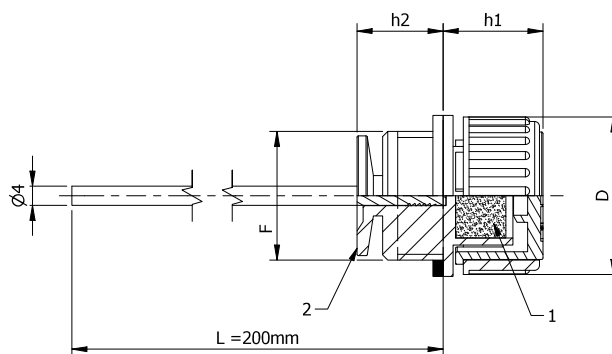


1 = Breather.
2 = Air filter.
3 = Anti-splash disc.

480039 KNURLED OIL FILL PLUG TCSZF WITH ANTI-SPLASH DISC



Code without dipstick	Code with dipstick	F	D	h1	h2	p
48003906301	-	G1/4"	21,5	16	11	-
48003909301	48003909501	G3/8"	21,5	16	13	35
48003912301	48003912501	G1/2"	24	11,5	14	100
48003919301	48003919501	G3/4"	31	19	13,5	80
48003925301	48003925501	G1"	38	16	19,5	250
48003931301	-	M14x1,5	21,5	16	11	-



- 1 - Foam filter.
2 - Anti-splash disc.

Knurled threaded thermoplastic cap (polyamide 66) in black.

Working temperature from -30°C to +100°C.

The built-in anti-splash disc is located under the thread and reduces possible oil leaks when there are strong movements of the tank.

The polyurethane foam filter prevents contamination from the environment from contaminating the oil.

The air flow rate (P) indicated in the table is expressed in litres/minute measured at a pressure of 50mbar (0.73 PSI).

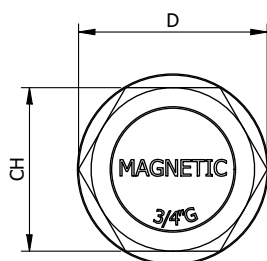
There is the option of the model with a cylindrical section dipstick with a blued finish. The standard rod is 200mm long.

The rod can be supplied in other sizes and with MIN-MAX markings, please ask for MOQ.

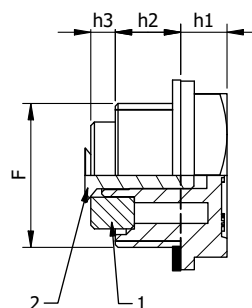
480041 DRAIN PLUG TM WITH MAGNET



Code	F	Ch	D	h1	h2	h3
48004106000	G 1/4"	17	20	7	9	5
48004109000	G 3/8"	18	22	7,5	10	10
48004112000	G 1/2"	24	27	8	11	9
48004134000	G 3/4"	30	34	9	11	6,5
48004125000	G 1"	35	42	10,5	12	14



- 1 - Magnet.
2 - Fitting rivet.



Hexagonal screw cap with magnet.

Thermoplastic material (polyamide 66) that guarantees high mechanical resistance at low and high temperatures, dimensional stability and shock resistance.

Working temperature from -30°C to +100°C.

The plug mounts to the bottom of the transmission or tank, to be used as a drain plug. The magnet attracts ferrous metal parts, preventing damage to gears and other moving components.

Black product, MAGNETIC marking on the hexagonal surface. Fiber joint.

480072 HEX PLUG TCA/TCAS WITH DIPSTICK



Code whitout breather	Code with breather	F	CH	D	h1	h2	d1
48007206120	48007206220	G 1/4"	17	19	7	9	4
48007209150	48007209220	G 3/8"	18	22	7,5	10	4
48007212120	48007212220	G 1/2"	24	28	7,5	11	4
48007219120	48007219220	G 3/4"	30	34	9	11	5
48007225120	48007225220	G 1"	36	42	10,5	12	5
48007231120	48007235220	G 1 1/4"	42	51	12	13,5	5
48007250120	48007250220	G 2"	64	74	13,5	16	5
48007214120	48007214220	M 14x1.5	17	19	7	9	4
48007216120	48007216220	M 16x1.5	18	21	7,5	10	4
48007218120	48007218220	M 18x1.5	21	26	7,5	10	4
48007220120	48007220220	M 20x1.5	24	28	8	10	4
48007222120	48007222220	M 22x1.5	24	28	8	11	4

Filler cap with hexagonal head made of thermoplastic (polyamide 66) and with metal rod. High mechanical strength at low and high temperatures, dimensional stability and impact resistance.

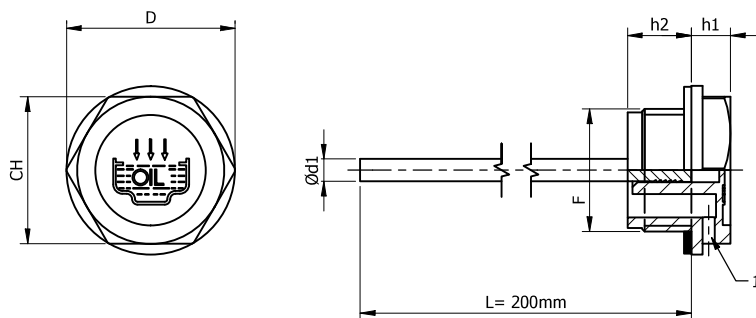
Working temperatures from -30°C to +100°C. Fiber joint.

Incorporates the graphic filling symbol and the word OIL on the surface of the cap.

The model with breather incorporates a hole on the side with a diameter of 2 to 3.5mm depending on the size of the cap.

The metal rod is blued, has a cylindrical section and a standard length of 200mm.

For minimum quantities of 250u, it can be supplied with the customized length and with MIN-MAX notches in the desired position.



1 - Breather.

480073 KNURLED PLUG TCAZ/TCASZ WITH DIPSTICK



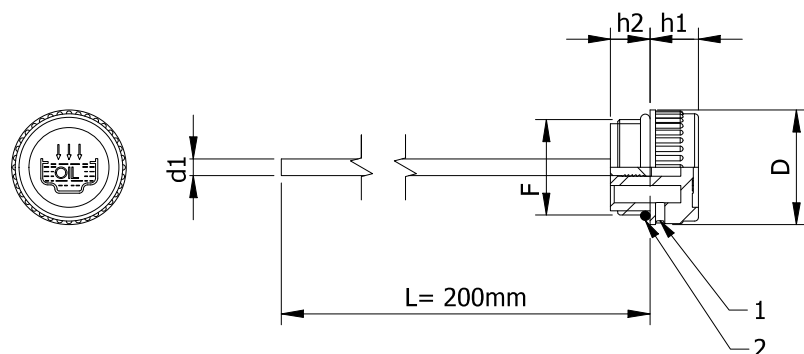
Code without breather	Code with breather	F	D	h1	h2	d1
48007306101	48007306201	G 1/4"	20	9	9	4
48007309100	48007309201	G 3/8"	20,5	9	10	4
48007312101	48007312200	G 1/2"	28	10,5	10,5	4
48007319101	48007319201	G 3/4"	31	12	11	5
48007325101	48007325220	G 1"	39	12	12	5
48007331101	48007331220	G 1 1/4"	49	13	13,5	5
48007350101	48007350201	G 2"	68,5	15	16	5
48007314101	48007314201	M 14x1.5	20	9	9	4
48007316101	48007316201	M 16x1.5	20	9	10	4
48007318101	48007318201	M 18x1.5	28	10,5	10	4
48007320101	48007320201	M 20x1.5	28	10,5	10	4
48007322101	48007322201	M 22x1.5	28	10,5	11	4

Knurled filler cap with rod made of thermoplastic (Polyamide 66) that ensures high mechanical resistance both at high and low temperatures, dimensional stability and resistance to impacts. Working temperature from -30°C to +100°C.

O-ring NBR 70 Shore.

They have the graphic filling symbol and the word OIL on the surface of the cap.

The vent is located on the side and has a diameter of 2 to 3.5mm depending on the size of the cap. The cylindrical section steel rod is blackened and has a standard length of 200mm. For a minimum of 250u, the rod can be supplied with a custom length and MIN-MAX markings in the desired position.

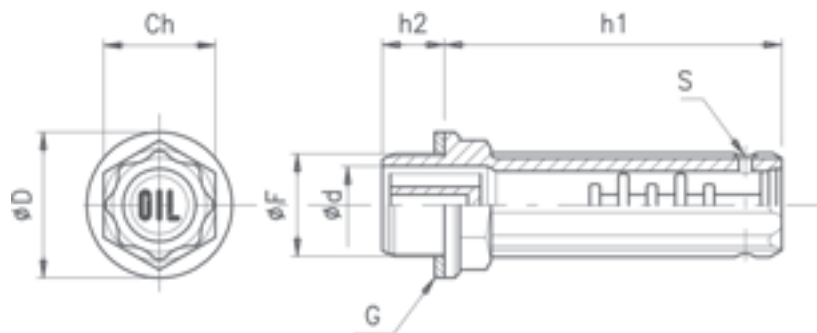


1 - Breather.
2 - O-ring.

480051 EXTENDED FILLER PLUG TK



Code	F	CH	D	d	h1	h2
48005106000	G 1/4"	17	20	9	55	12
48005109000	G 3/8"	19	22	12	60	12
48005112000	G 1/2"	22	28	15	65	12
48005116000	M16x1.5	19	22	12	60	12
48005118000	M18x1.5	19	22	12	60	12



S - Breather.
G - Fiber gasket.

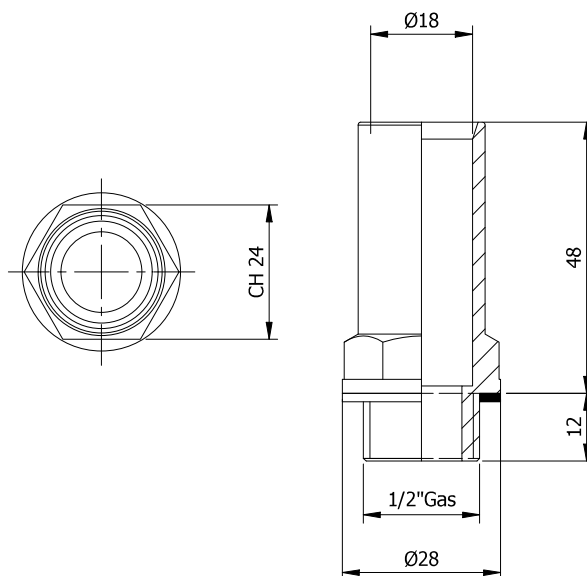
This extended screw cap has a labyrinth of blades inside the body that prevents overflow. It is made of thermoplastic (Polyamide 66).

The maximum working temperature is +100°C.

It is recommended for applications where there is an intense movement of the oil and as a consequence the danger of leaks through the breathing hole (Ø 2.5mm). The combined action of the labyrinth and the high position of the vent prevents losses.

The cap is supplied as standard in black with a red cap with the inscription OIL and fiber gasket. Finished with a hexagonal neck that allows tightening with a wrench.

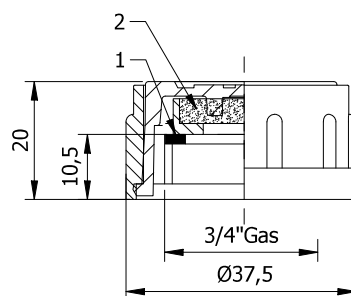
48007812000 EXTENDED RECEPTACLE FOR PRESS-FIT PLUGS PFP



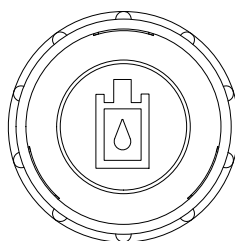
Extension body with 1/2" BSP male thread and Ø18mm top hole for pressure components; can be used in combination with flat pressure caps 480061.

Thanks to this extension it is possible to raise the position of the respirator of the coupled cap and with this the possibility of leaks is reduced.

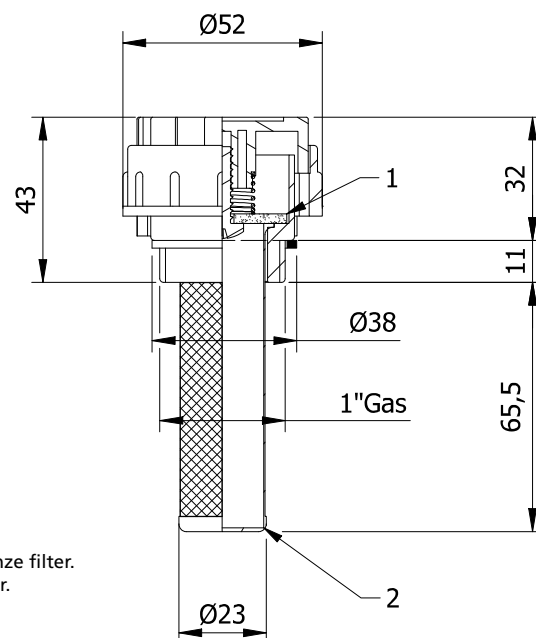
The extension is made of thermoplastic (Polyamide 66) and includes a fiber gasket.

48000719000**FILLER BREATHER WITH FILTER INTERNAL THREAD TF**

- 1- NBR flat seal.
2- Air filter.



Filler cap with 3/4" BSP female thread, breather and air filter made of polyurethane foam. Made of polyamide 66. NBR 70 Shore flat gasket. Red cap including graphic oil fill symbol. Air ventilation flow up to 100 lt/min (data measured with a pressure difference between outside and inside of 110 mbar). Specially designed for injected plastic tanks.

48007025101**FILLER BREATHER WITH METAL STRAINER BRC**

- 1- Sintered bronze filter.
2- Metal strainer.

Breathing filler cap made of thermoplastic (polyamide 66). 1" BSP male thread and NBR 70 Shore rubber gasket. Designed for use in small and medium capacity tanks (25 to 100 litres).

They incorporate a sintered bronze air filter (30 micron filtration degree) and a metal strainer basket (300 micron filtration degree) that protects the fluid from the entry of dirt. Air flow up to 150 Lt/min (measured with a pressure difference between outside and inside of 150 mbar).

Black lid with the graphic symbol of "FILL OIL"

480009 FILLER BREATHERS WITH VALVE AND DIPSTICK TSV-TSAV



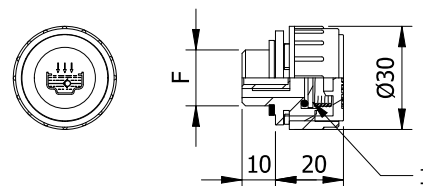
These caps have a cylindrical head with vertical projections that allow easy manual tightening. It is made of black thermoplastic (Polyamide 66) and has a red cap with the hydraulic valve symbol. Supplied with NBR 70 Shore flat gasket.

The maximum working temperature is 100°C. Available version with blued steel rod and cylindrical section with a standard length of 195mm. For orders of min. 250u can be supplied customized.

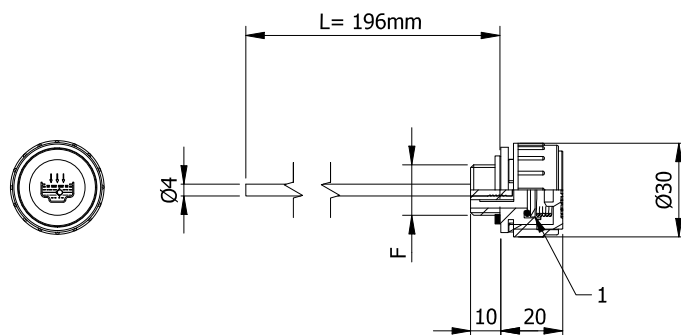
They are designed for applications where a certain pressure needs to be maintained inside the tank.

The valve opens at a pressure of approx. 0.25bar / 3.6 PSI and closes at a slightly lower pressure. This valve allows the tank to be vented in overpressure conditions but prevents the entry of dust particles and other forms of contamination from the atmosphere into the tank.

Code	Code with dipstick	F
48000906000	48000906100	G 1/4"
48000909000	48000909100	G 3/8"
48000912000	48000912100	G 1/2"



1 - Air relief valve.



480010 FILLER BREATHERS WITH FILTER TSF-TSF/BR-TSAF-TSAF/BR



These caps have a cylindrical head with vertical projections that allow easy manual tightening. It is made of black thermoplastic (Polyamide 66) and has a red cover with the text "OIL" under which the polyurethane air filter is located. Supplied with NBR 70 Shore flat gasket.

The maximum working temperature is 100°C.

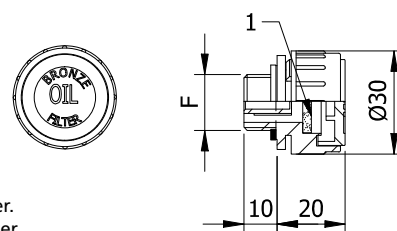
They are designed to provide a good air flow combined with reduced external dimensions. The air flow "P" is indicated in the table in litres/min and measured at a pressure of 50 mbar.

Available version with blued steel rod and cylindrical section with a standard length of 195mm. For orders of min. 250u can be supplied customized.

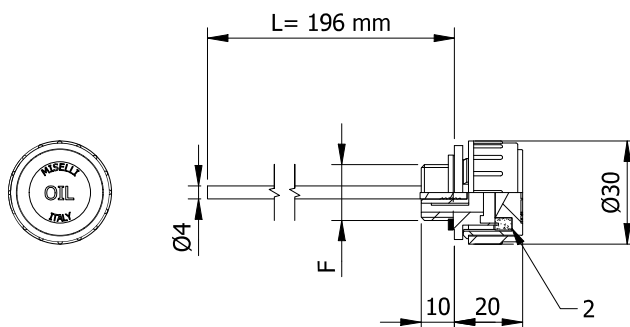
In applications where the ventilation hole is subjected to strong splashes, especially during start-up when the oil is still not very fluid, we suggest the use of the version with the sintered bronze air filter (grade of 30 micron filtration). This allows air flow but slows down the overflow of oil since this type of filter is not absorbent.

Polyurethane air filter					
Code	F	P	Code with dipstick	F	P
48001006000	G 1/4"	60	48001006100	G 1/4"	60
48001009000	G 3/8"	70	48001009100	G 3/8"	78
48001012000	G 1/2"	60	48001012100	G 1/2"	75

Bronze sintered filter					
Code	F	P	Code with dipstick	F	P
48001006001	G 1/4"	40	48001006101	G 1/4"	40
48001009001	G 3/8"	30	48001009101	G 3/8"	30
48001012001	G 1/2"	20	48001012101	G 1/2"	20



1 - Bronze sintered filter.
2 - Polyurethane air filter.





Circular head cap with male thread and vertical projections for a better grip. It is manufactured in black with a red cap that includes the graphic fill symbol and the word "OIL". For models with G 1 1/4" and G 1 1/2" threads, it can be supplied with a yellow cap and the text "DIESEL". For large quantities, the lid can be supplied neutral or with the Company logo.

Made of polyamide 66 that ensures high mechanical resistance at low and high temperatures (Working temperature from -30°C to +100°C). Supplied with Grade 70 Shore Oil Resistant O-Ring.

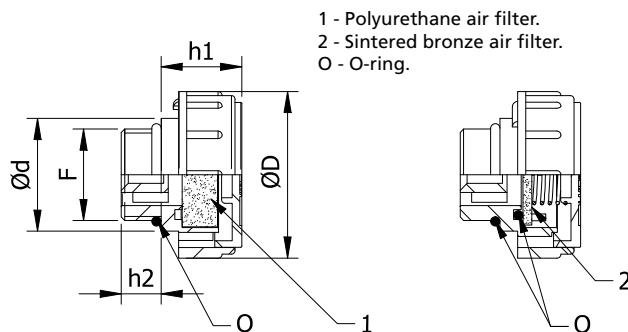
In the versions with air filter (polyurethane foam or sintered bronze), it is located under the cover and is easy to remove for cleaning and subsequent assembly.

These plugs allow the circulation of a high volume of air thanks to the vents located at the bottom of the plug. They are recommended to be used in systems where the variation of the oil level occurs frequently and in a short time, the entry and exit of air being necessary without causing undesirable overpressures (See graph of pressure flows).

In applications where the ventilation hole is subject to strong splashes, especially during start-up when the oil is still not very fluid, we suggest using the version with the sintered bronze air filter (filtration degree 30 microns). This allows air flow but slows down the overflow of oil since this type of filter is not absorbent.

Available in 1/4" - 3/8" - 1/2" - 3/4" - 1" NPT thread.

Code without filter	P(l/min)	Code with filter	P(l/min)	F	D	d	h1	h2
48005309000	230	48007003038	200	G 3/8"	36	23	17	11
48005312000	260	48007004012	230	G 1/2"	41	28	18	12
48005319000	430	48007006034	350	G 3/4"	47	33	17	12
48005325000	430	48007008001	400	G 1"	52	38	20	12
48005331000	660	48007010014	600	G 1 1/4"	63	49	23	13
48005338000	660	48007010112	600	G 1 1/2"	63	55	23	13,5
48005316000	260	48007016000	230	M 16x1,5	36	23	17	11
48005318000	260	48007018000	230	M 18x1,5	41	28	17,5	12
48005320000	260	48007020000	230	M 20x1,5	41	28	17,5	12
48005322000	260	48007022000	230	M 22x1,5	41	28	17,5	12



Code without filter	Code with filter	Code with filter BR	F	D	d	d1	h1	h2
48007409101	48007409201	48007409901	G 3/8"	36	23	4	17	11
48007412101	48007412201	48007412901	G 1/2"	41	28	4	18	12
48007419101	48007419201	48007419901	G 3/4"	47	33	5	17	12
48007425101	48007425201	48007425901	G 1"	52	38	5	20	12
48007431101	48007431201	48007431901	G 1 1/4"	63	49	5	23	13
48007438101	48007438201	48007438901	G 1 1/2"	63	55	5	23	13,5
48007414101	48007414201	48007414901	M 14x1,5	41	28	4	21,5	12
48007416101	48007416201	48007416901	M 16x1,5	36	23	4	17	11
48007418101	48007418201	48007418901	M 18x1,5	41	28	4	17,5	12
48007420101	48007420201	48007420901	M 20x1,5	41	28	4	17,5	12
48007422101	48007422201	48007422901	M 22x1,5	41	28	4	17,5	12

Circular head cap with male thread and vertical projections for a better grip. It is manufactured in black with a red cap that includes the graphic fill symbol and the word "OIL". It is equipped with a blued steel level rod.

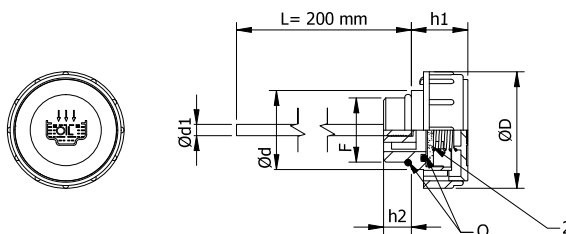
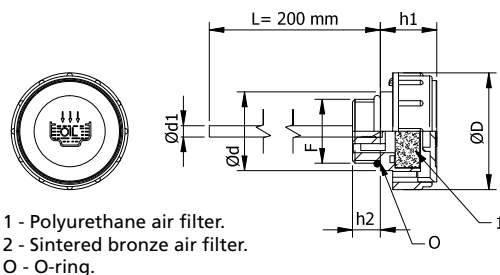
The standard rod has a length of 200mm.

For orders of more than 250u it can be supplied with a custom length and with "MIN-MAX" markings.

Max. working temperature +90°C.

It has characteristics similar to breather cap 480053-480070. Optionally and for adequate quantities it can be supplied with a flat flexible rod with the inscription "FLEX".

Version with polyurethane foam filter with PPI 60, version with sintered bronze filter with filtration degree of 30µ. Available in 3/8" - 1/2" - 3/4" - 1" NPT thread.





Black cap with circular head, with male thread and vertical ribs for a better grip. It includes a red cap with the graphic filling symbol and the text "OIL". Made of Polyamide 66 that ensures high mechanical resistance at high and low temperatures. Working temperature from -30°C to +100°C.

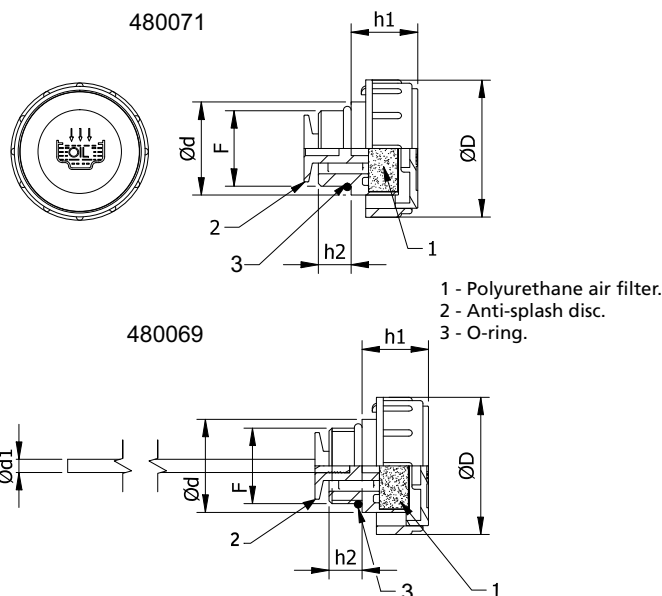
Oil resistant 70 Shore rubber O-ring.

Polyurethane air filter (PPI 60) located under the cover, easy to remove, clean and replace.

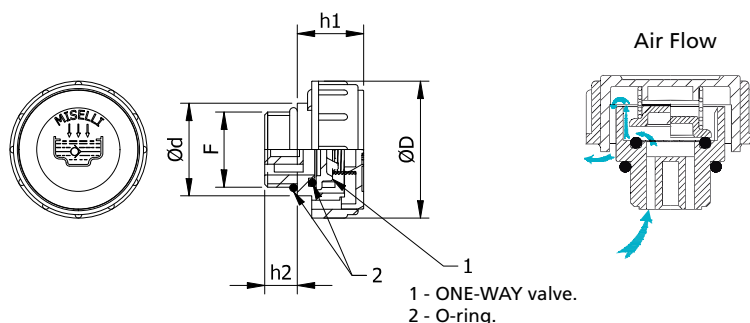
These filler caps allow the circulation of a high volume of air through the vents located under the head and that prevent overpressures or depressions; its use is recommended in systems where the oil level varies abruptly.

It also includes the anti-splash disc, located under the thread and which protects the vents from occasional oil splashes produced during operation or transport.

Code	Code with dipstick	F	D	d	d1	h1	h2
48007100900	48006900900	G 3/8"	36	23	4	21	11
48007101200	48006901200	G 1/2"	41	28	4	21	12
48007101900	48006901900	G 3/4"	47	33	5	22	12
48007102500	48006902500	G 1"	52	38	5	25	12
48007103100	-	G 1 1/4"	63	49	5	29	13
48007111400	-	M 14x1.5	41	28	4	21,5	12
48007111600	48006911600	M 16x1.5	36	23	4	21	11
48007111800	48006911800	M 18x1.5	41	28	4	21	12
48007112000	48006912000	M 20x1.5	41	28	4	21	12
48007112200	48006912200	M 22x1.5	41	28	4	21	12



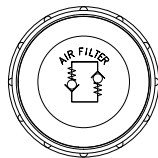
Code without dipstick	Code with dipstick	F	D	d	h1	h2
48005509101	48005509201	G 3/8"	36	23	21	11
48005512101	48005512201	G 1/2"	41	28	21	12
48005519101	48005519201	G 3/4"	47	33	22	12
48005525101	48005525201	G 1"	52	38	25	12
48005531101	48005531201	G 1 1/4"	63	49	29	13
48005514101	48005514201	M14x1,5	41	28	21,5	12
48005516101	48005516201	M16x1,5	36	23	21	11
48005518101	48005518201	M18x1,5	41	28	21	12
48005520101	48005520201	M20x1,5	41	28	21	12
48005522101	48005522201	M22x1,5	41	28	21	12



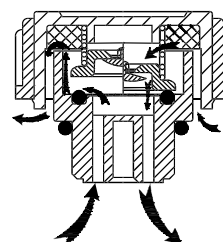
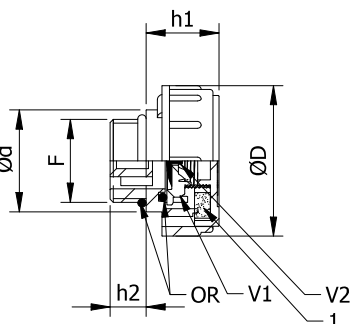
Breather cap with vertical ribs for a better grip. Made of black polyamide 66 that ensures high mechanical resistance at high and low temperatures. Working temperature from -30°C to +100°C. Resistant to oils and fats. Red cap with graphic valve symbol. Including 70 Shore O-rings.

These plugs are recommended to maintain a certain air pressure in the tank. The ONE-WAY valve only allows air to escape from the tank when there is an overpressure that exceeds 0.30 bar(±0.1)/ 4.3 PSI(±1.5). On request, the valve can be supplied calibrated at 0.10 bar(±0.03)/1.5 PSI(±0.45).

The rod of the corresponding model is made of blued steel, cylindrical section and standard length of 200mm. For minimum orders of 250u, the length can be customized and include MIN-MAX markings.



Code without dipstick	Code with dipstick	F	D	d	h1	h2
48005609101	48005609201	G 3/8"	41	28	21	11
48005612101	48005612201	G 1/2"	41	28	22	12
48005619101	48005619201	G 3/4"	47	33	22	12
48005625101	48005625201	G 1"	52	38	25	12



V1 = Safety valve.
V2 = Suction valve.
1 = Air filter.
OR = O-ring

Filler breather cap with vertical ribs for a better grip. Made of black polyamide 66 that ensures high mechanical resistance at high and low temperatures. Working temperature from -30°C to +100°C. Resistant to oils and fats.

Black lid with double valve graphic symbol. The safety valve is calibrated around 0.30 bar/4.3 PSI (on request 0.10 bar/1.5 PSI). The suction valve is calibrated around 8 mbar (0.12 PSI).

Including 70 Shore O-rings.

Includes 60PPI polyurethane air filter located under the cover that protects the tank from the entry of dust. The safety valve prevents oil loss in moving equipment.

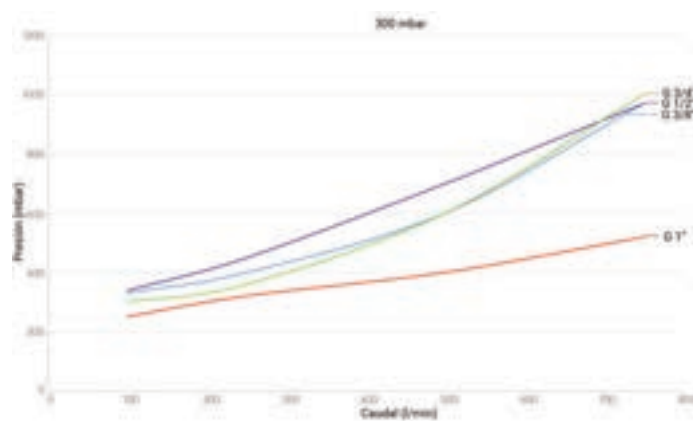
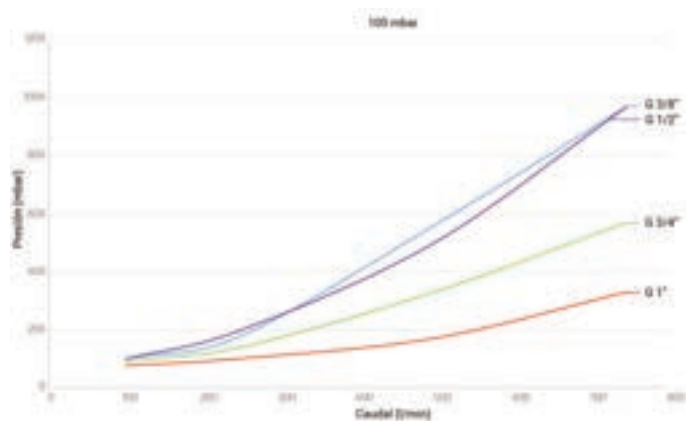
This model is used in applications where air flow control is needed in both directions, externally when an internal overpressure is created and internally when the drop in fluid level generates a vacuum.

The rod of the corresponding model is made of blued steel, cylindrical section with a diameter of 4-5 mm depending on the model and a standard length of 200mm.

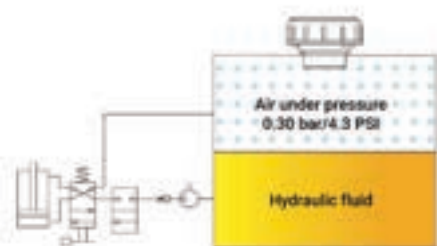
For minimum orders of 250u, the length can be customized and include MIN-MAX markings.

Airflow capacity up to 750 l/m (see graphs).

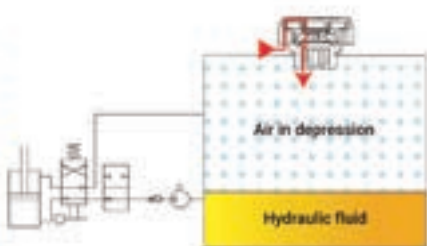
Available with metric thread M14-M16-M18-M20-M22X1.5.



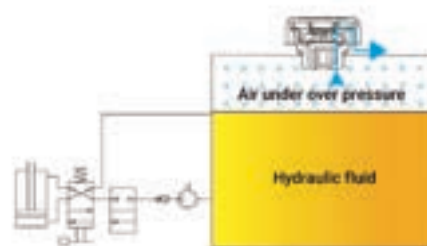
OPERATING DIAGRAM OF THE TMDV-DS BREATHER CAP IN A HYDRAULIC CIRCUIT



Standard operating conditions



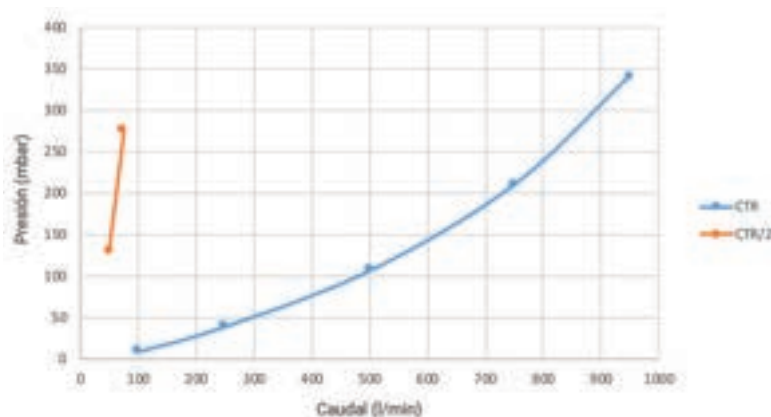
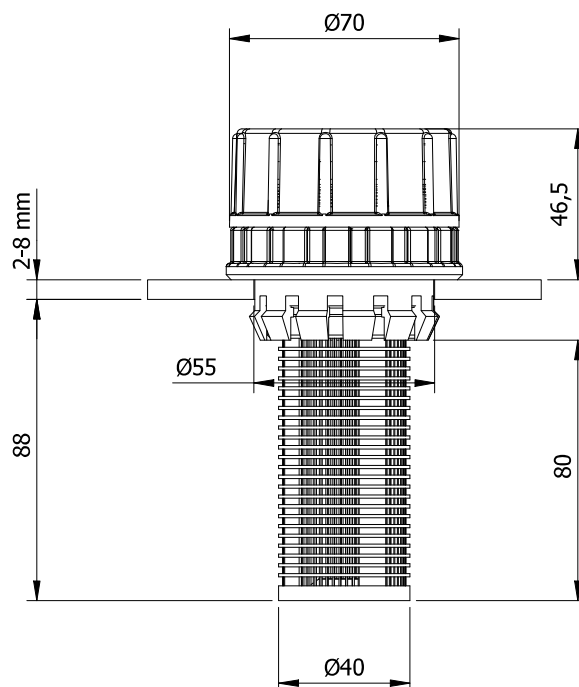
When a depression higher than 8mbar/0.12 PSI is created inside the tank, an air flow enters through the suction valve.



When an overpressure higher than 0.30 bar/4.3 PSI (or 0.10 bar/1.5 PSI) is created inside the tank, the air flow exits through the safety valve.



Code	Version
48000401000	With safety chain
48000400000	Without safety chain

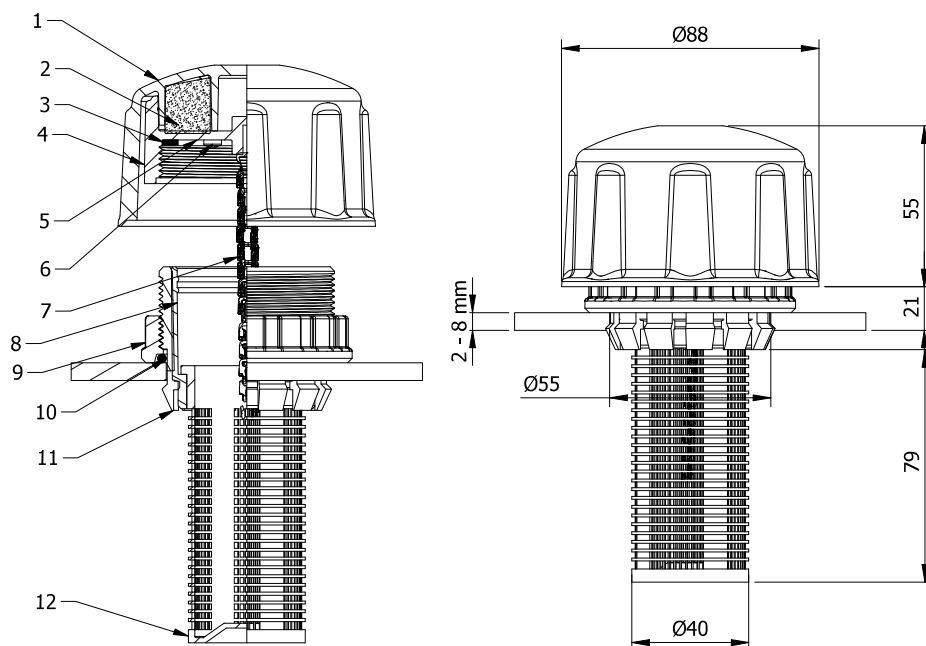


Filler cap with breather for installation on top of tanks, includes filter basket.
It consists of three elements:

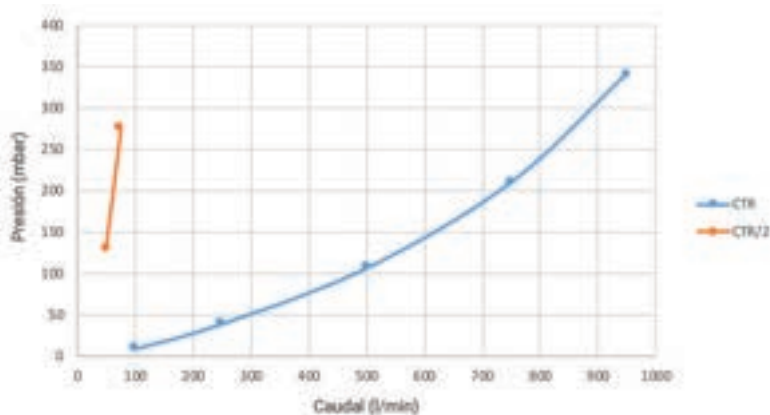
1. Top cover with breather made of Polyamide 66 in black. The polyurethane foam air filter (PPI 60) is housed inside. Flat red cover.
2. Main body made of black technopolymer, includes a threaded fixing ring. This body must be placed in a hole (Ø 55mm 0.3mm) made in the upper part of the tank or reservoir. The thickness of the tank plate must be min. 2mm and max. 8mm No other drilling is necessary to fix the plug. Available version with safety chain that joins the body with the lid.
3. Filter basket made of black polypropylene.
Maximum working temperature of 80°C.
Air flow up to 75 l/min.
The sealing between the main body and the tank is made thanks to a 70 Shore O-ring.



Code	Version
48000201000	Without safety chain
48000200000	With safety chain



Ref.	Description
1	Filler breather cap
2	Polyurethane air filter
3	Inner cap threaded M60x2
4	NBR flat seal
5	Breather holes
6	Self tapping screw (3x)
7	Safety chain
8	Quick fastening coupling
9	Locking ring
10	O-Ring
11	Internal locking ring
12	Filtering basket



Filler cap with breather for installation on top of tanks, includes filter basket.

It consists of three elements:

1. Top cover with breather made of Polyamide 66 in black. The polyurethane foam air filter (PPI 60) is housed inside.
 2. Main body made of black technopolymer, includes a threaded fixing ring. This body must be placed in a hole (Ø 55mm 0.3 mm) made in the upper part of the tank or reservoir. The thickness of the tank plate must be min. 2mm and max. 8mm No other drilling is necessary to fix the plug. Available version with safety chain that joins the body with the lid.
 3. Filter basket made of black polypropylene.
- Maximum working temperature of 80°C.
Air flow up to 950 l/min.
The sealing between the main body and the tank is made thanks to a 70 Shore O-ring.

480061

LOW PROFILE PUSH-FIT FILLER PLUG TPB-TPBS-TPBSF



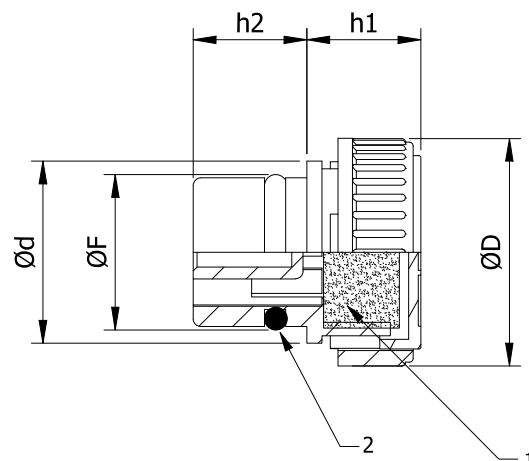
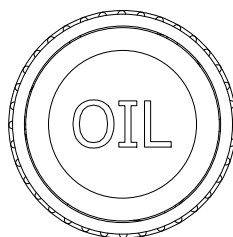
The flat pressure cap is made of polyamide 66.
Maximum working temperature +100°C.

Press fit into the hole per 'F' values given in the table with a tolerance of -0 +0.1mm with 1mm/45° chamfer.
O-ring NBR 70 shore.

The models with breather allow high levels of air renewal. The filter included in the corresponding models is made of polyurethane foam PPI60.

The low profile of the plug makes it very suitable for places where the space above the plug is limited.

Code	Code with breather	Code with breather & filter	F	D	d	h1	h2
48006118001	48006118002	48006118003	18	30	23	14,5	14,0
48006120001	48006120002	48006120003	20	30	24	14,5	15,5
48006126001	48006126002	48006126003	26	30	30	14,5	16,3
48006130001	48006130002	48006130003	30	30	34	15,5	16,3



1 - Air filter.
2 - O-Ring

480077

FILLER BREATHERS Ø70 WITH FILTER / TMDF-70

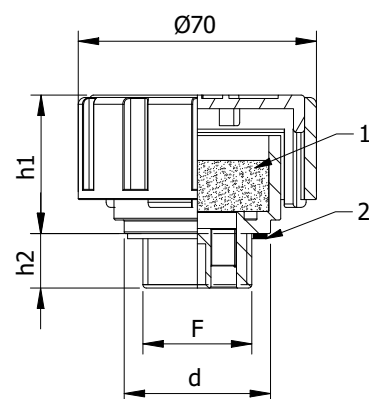
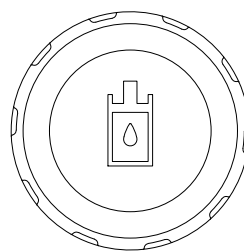


Round headed filler breathers diam. 70 mm with vertical ribs for better grip, threaded connection. Standard production in black with red lid complete with graphic fill symbol and the text "OIL". Manufactured from polyamide 66 ensuring high mechanical resistance at both low and high temperatures (-30°C/-22°F to +100°C/212°F). Oil resistant NBR flat seal 70 Shore durometer.

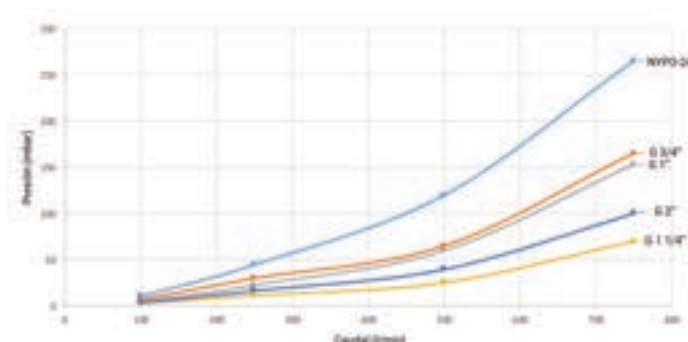
The polyurethane air filter (60 PPI) is located under the lid, easy to remove, clean and reinstall. These filler breathers have been designed where is required a large capacity of air flow as hydraulic tanks subject to rapid changes in the internal fluid volume.

Airflow capacity up to 750 Lt/min (see graphic).

Code	F	d	h1	h2
48007711170	G 3/4"	47	41,5	15,5
48007711370	G 1"	49	40,7	16
48007711470	G 1 1/4"	53	41	14,5
48007711270	G 1 1/2"	43	41	14,5
48007711570	G 2"	69	42	16
48007711670	56x4	69	42	16



1 - Air filter.
2 - NBR flat seal.



480077 AS

FILLER BREATHERS Ø70 WITH FILTER AND INTERNAL ANTI-SPLASH / TMDF-70-AS



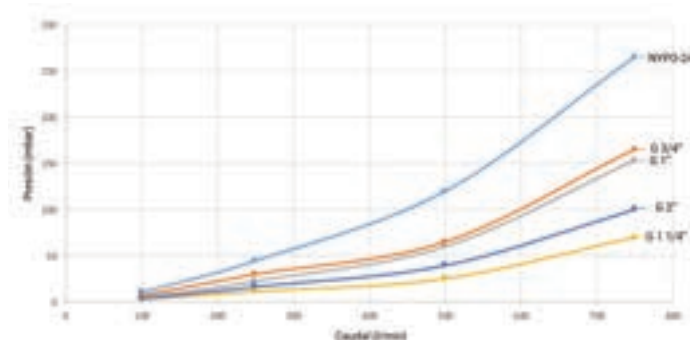
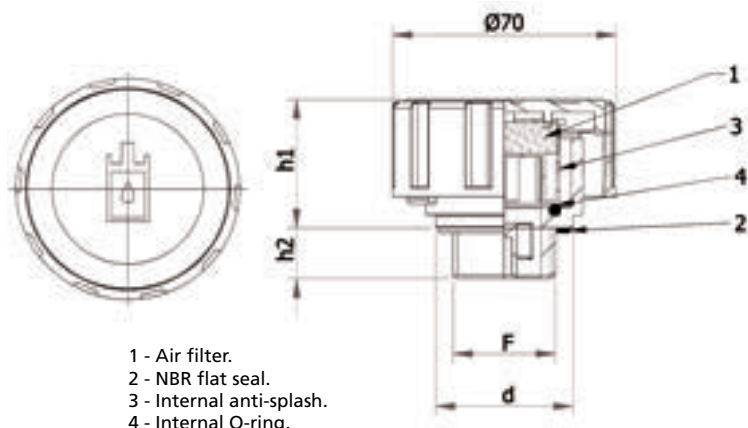
Round headed filler breathers diam. 70 mm with vertical ribs for better grip, threaded connection. Standard production in black with blue lid complete with graphic fill symbol and the text "OIL". Manufactured from polyamide 66 ensuring high mechanical resistance at both low and high temperatures (-30°C/-22°F to +100°C/212°F). Oil resistant NBR flat seal 70 Shore durometer.

The polyurethane air filter (60 PPI) is located under the lid, easy to remove, clean and reinstall. These filler breathers have been designed where is required a large capacity of air flow as hydraulic tanks subject to rapid changes in the internal fluid volume.

This filler has an internal anti-splash system suggested for mobile applications or where the fluid inside is subjected to strong movements.

Airflow capacity up to 750 Lt/min (see graphic).

Code	F	d	h1	h2
48007711171	G 3/4"	47	41,5	15,5
48007711371	G 1"	49	40,7	16
48007711471	G 1 1/4"	53	41	14,5
48007711271	G 1 1/2"	43	41	14,5
48007711571	G 2"	69	42	16
48007711671	56x4	69	42	16



480077 DS70

PRESSURIZED FILLER BREATHERS Ø70 WITH DOUBLE VALVE AND FILTER / TMDV-DS70



Round headed filler breather with vertical ribs for better grip. manufactured from Polyamide 66 ensuring high mechanical resistance at both low and high temperatures (max working temperature 100°C/212 °F). Threaded base connection black colour: with graphic symbol "double-valve" and inscription 'AIR FILTER'.

Poliurethane foam air filter.

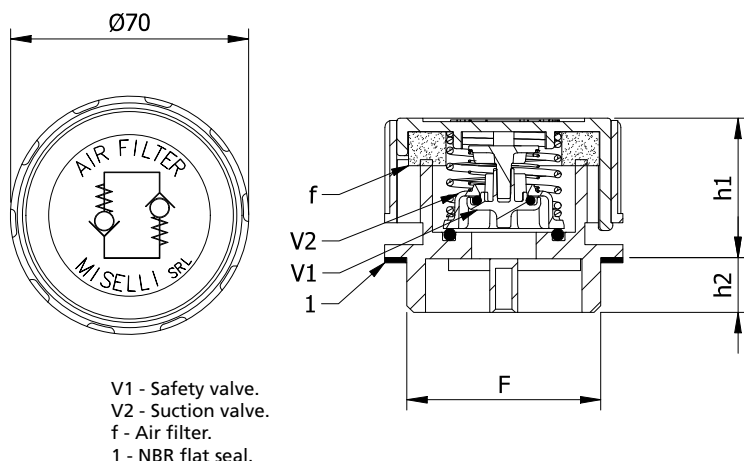
Main benefits:

Provide additional protection from moisture which can condense in your tank, causing oil breakdown and lose performance.

Provide positive head pressure to improve pump inlet suction condition.

You will experience increased breather life due to not breathing in on every hydraulic cycle. Can reduce breathing by as much as 90-95% increasing the life. Performs oil containment function as anti splash.

Code	F	h1	h2
48007711172	G 3/4"	42	16
48007711372	G 1"	41	15
48007711472	G 1 1/4"	41	15
48007711272	G 1 1/2"	41	15
48007711572	G 2"	42	16
48007711672	56x4	42	16



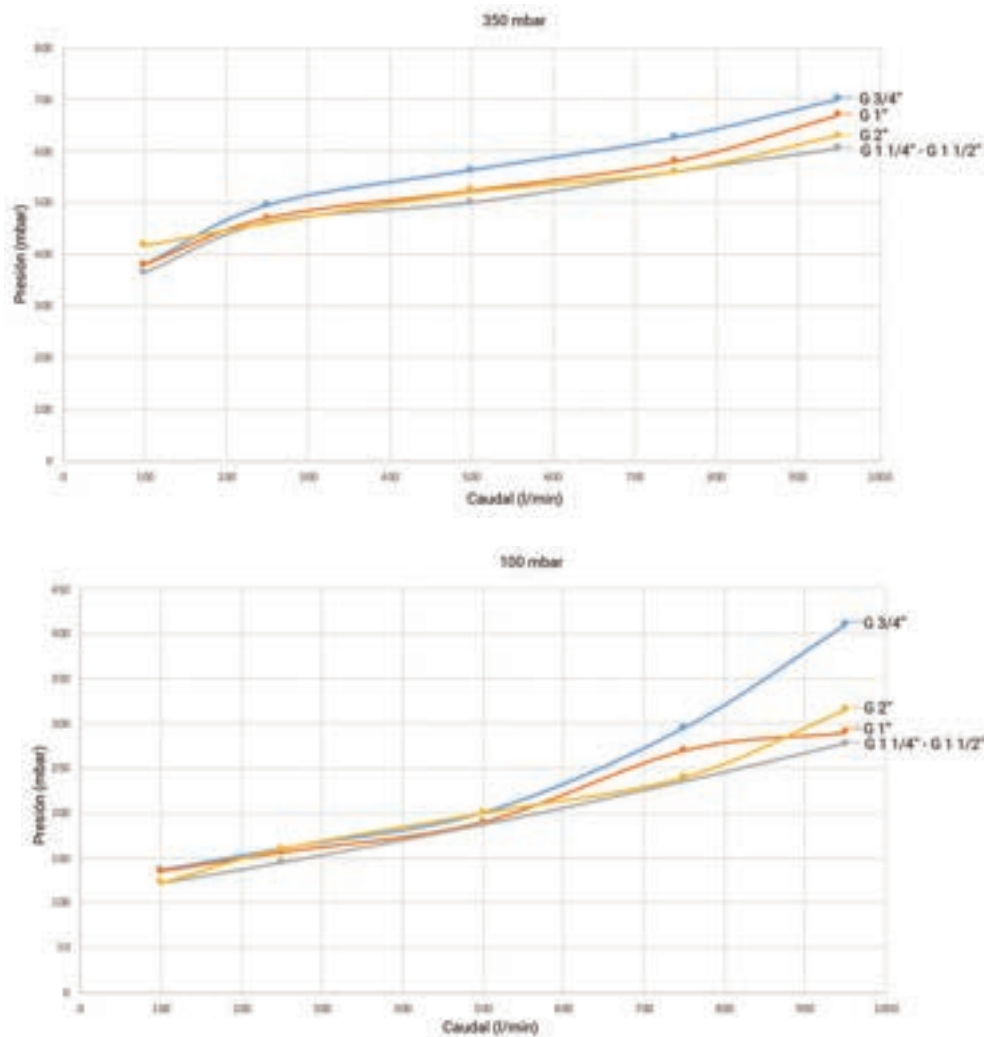
Pressurized breather operation:

The use of the double valve system. minimizes the exchange of the air between the reservoir and the environment, as well the ingress of contamination thus the life of the air filter element is increased.

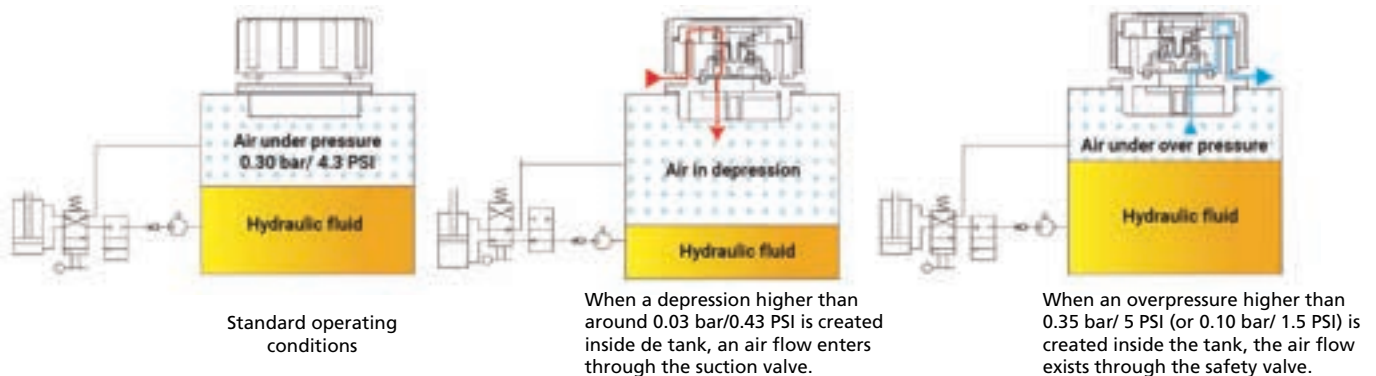
The double valve allows for a 0.03 bar/0.43 PSI pressure to be created in the reservoir to improve the suction conditions for pumps. When the fluid level rises the existing air volume is compressed. and no air is exhausted out the breather until the crack pressure is reached (0.35 bar/5 PSI option 0.10 bar/1.45 PSI).

When the fluid level lowers, the tank pressure drops until a vacuum is created at which point, air will be drawn in trough the breather. Air only escapes when the pressure in the reservoir exceeds the cracking pressure set. and air is only drawn in when the pressure in the reservoir drops below atmosphere.

The system will normally operate between those range most of the time so no breathing will take place. Airflow capacity: up to 950 Lt/min (see graphic).

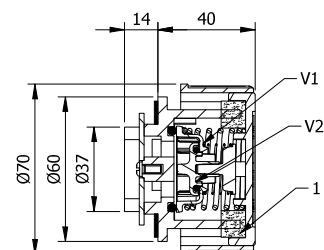
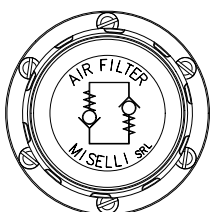
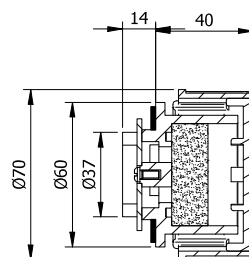
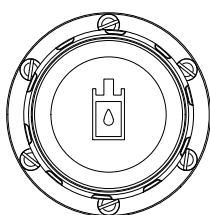


OPERATING DIAGRAM OF THE BREATHER CAP IN A HYDRAULIC CIRCUIT

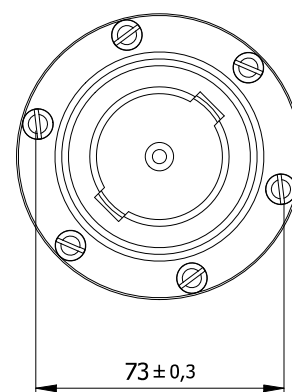
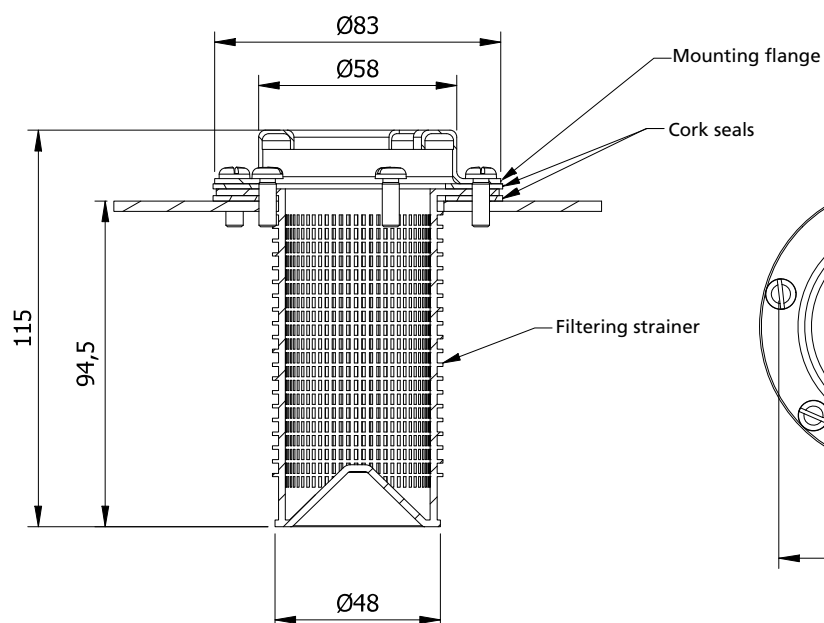


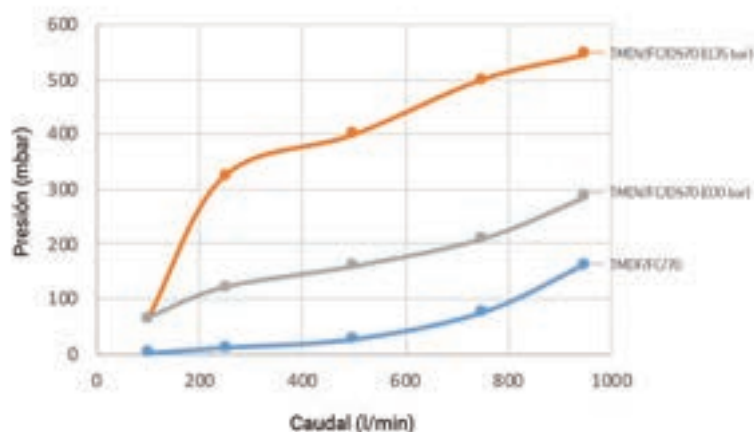


Code	Version
48007770000	70
48007770001	DS70



V1 - Safety valve.
V2 - Suction valve.
1 - Air filter.





Circular head plug with vertical ribs for a better grip. Includes bayonet lock, safety chain, fastening flange with black polypropylene (PP) filter basket and polyurethane air filter located under the lid; Easy removal and placement for cleaning. This filter protects the tank from the entry of dirt and the valves from splashes.

The cap is made of black polyamide 66 that ensures high mechanical resistance at low and high temperatures (max. working temperature +100°C).

The TMDV/FC/70 model incorporates a red cap with the graphic symbol "FILL OIL".

The TMDV/FC/DS70 model incorporates a black cover with the graphic symbol of double valve. This model has a double valve safety system. The safety valve is set around 0.35bar/5 PSI, the suction valve around 0.05bar/0.72 PSI. This model is used in hydraulic applications where the air flow needs to be controlled in both directions, externally when an internal overpressure is generated, internally when a drop in fluid level creates a vacuum.

Air flow up to 750 l/min (See graph).

Flat cork gasket and six zinc plated mounting screws are included.

480059

PUSH-FIT FILLER BREATHER TP-TPF(BR)-TPV



Code without filter	Code with polyurethane filter	Code with valve	F	D	d
48005918001	48005918002	48005918003	18	36	23
48005920001	48005920002	48005920003	20	36	24
48005926001	48005926002	48005926003	26	41	28
48005930001	48005930002	-	30	47	33

Filling cap with vertical ribs for a better grip, it is made of polyamide PA66. Dimensional stability and impact resistance. High mechanical resistance at high and low temperatures.

Maximum working temperature +100°C.

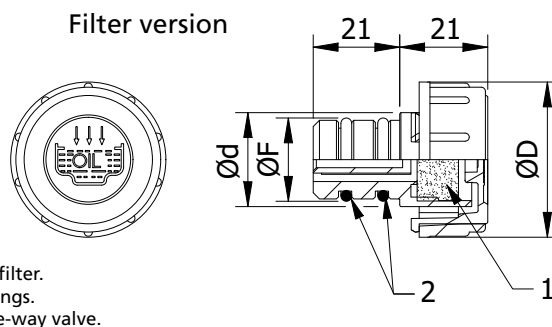
Press fit into the hole according to 'F' values indicated in the table with a tolerance of ± 0.1 mm with 1mm/45° chamfer.

Includes two NBR 70 shore O-rings.

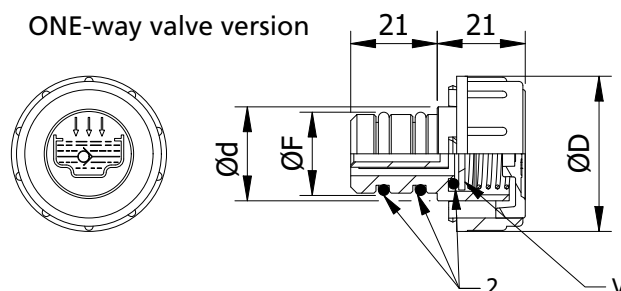
The filter included in the corresponding models is made of polyurethane foam. When the vent hole is subject to heavy splashing, especially during start-up when the oil is still thick, it is recommended that the filter be made of sintered bronze (grade 30 microns) which allows proper ventilation but stops fluid overflow.

The model with valve is used in applications where it is necessary to maintain a certain pressure inside the tank. The valve opens at a pressure of about 0.30 bar and closes when it drops below that value. This behavior allows ventilation but also prevents the entry of dust particles and other forms of atmospheric pollution.

Filter version



ONE-way valve version





Filler cap with vertical ribs for a better grip, it is made of polyamide PA66. Dimensional stability and impact resistance.

High mechanical resistance at high and low temperatures. Maximum working temperature +100°C.

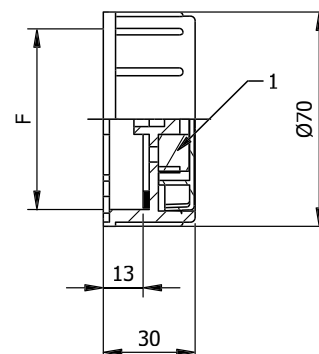
Includes flat gasket NBR 70 shore.

Polyurethane foam filter.

Airflow capacity up to 75 l/min (Data measured with a pressure difference between the outside and inside of 275 mbar).

Code	F
48000750000	G 2"
48000760000	M60x2

480007



- 1 - Air filter.
2 - Internal NBR flat seal.



Filler cap with vertical ribs for a better grip, it is made of polyamide PA66. Dimensional stability and impact resistance.

High mechanical resistance at high and low temperatures. Maximum working temperature +100°C.

Includes flat gasket NBR 70 shore.

Polyurethane foam filter.

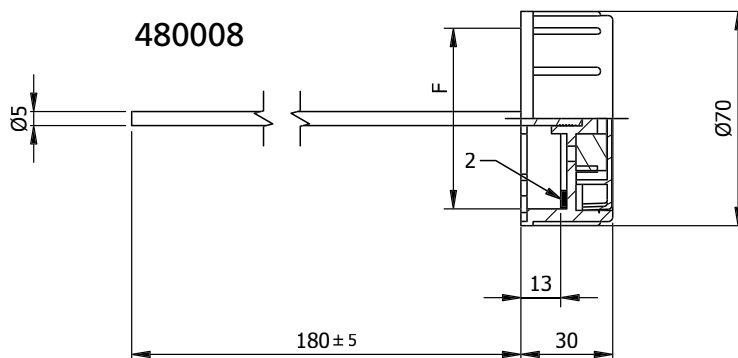
Zinc steel phosphated level dipstick with cylindrical section, rod with a standard length of 180 mm ± 5 .

Upon request, the customized rod with MIN-MAX notches can be supplied. Airflow capacity up to 75 l/min (Data measured with a pressure difference between the outside and inside of 275 mbar).

Code	F
48000850000	G 2"
48000860000	M60x2

- 1 - Air filter.
2 - Internal NBR flat seal.

480008



480083 FILLER BREATHER WITH SPRING RETENTION CLIP



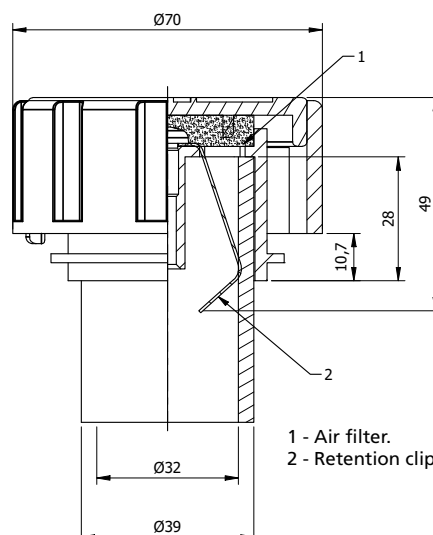
Filler cap with vertical ribs for a better grip, it is made of polyamide PA66. Dimensional stability and impact resistance.

High mechanical resistance at high and low temperatures.
Maximum working temperature +100°C.

Spring retention clip to suit 39 mm Ø and 32 mm Ø steel tube.

Polyurethane foam filter.

Airflow capacity up to 750 Lt/min (data measured with a pressure difference between outside and inside of 275 mbar).



Code
48008307000

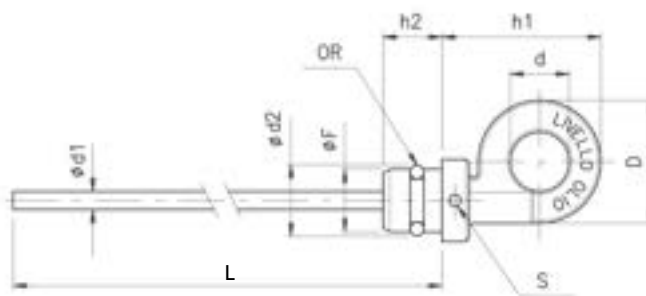
480082-480084 OIL LEVEL DIPSTICK PRESS-FIT



Available version with flexible flat dipstick.

Code without breather	Code with breather	Ø F	D	d	d1	d2	h1	h2	L
48008214000	48008214120	14	27	13	4	17,9	34	13	180 ±5
48008218000	48008218120	18	32	14	5	23,6	45	17	180 ±5
48008220000	48008220120	20	32	14	5	23,6	44,5	18	180 ±5
48008230000	48008230120	30	32	14	5	33,6	45	17	190 ±5
48008412000	-	12	27	14	4	18	36	20	180 ±5
48008414020	48008414120	14	27	13	4	18	34	20	195 ±5
48008418000	48008418118	18	32	14	5	23,5	44	21	195 ±5
48008420000	48008420100	20	32	16	5	23,6	44	21	180 ±5

Version 480082 - 1 O-ring.



S - Breather hole.
OR - O-ring.

Press-fit plug with zinc phosphate surface and cylindrical section dipstick. Made of black polyamide PA66 that gives it high mechanical resistance, dimensional stability and shocks resistance.

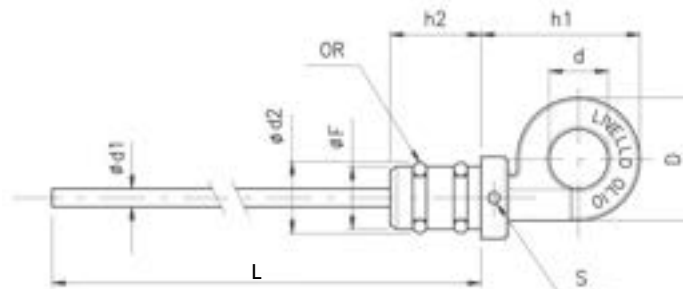
Maximum working temperature 100° C.

NBR 70 shore synthetic rubber retaining O-ring. Versions available with one O-ring or two O-rings. The versions with a breather hole have a 2.5 mm hole located in the flange under the handle.

Upon request and for minimum quantities, a customized dipstick can be supplied with the desired length and/or with MAX./MIN notches.

Available in other colors, consult minimum quantities.

Version 480084 - 2 O-rings.





Hex plugs made from 11S aluminium, supplied with FASIT 202 fiber gasket (aluminum washer available as an option).

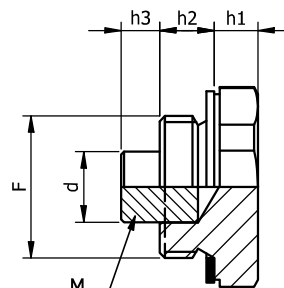
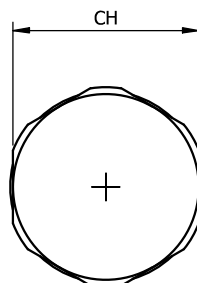
This cap is equipped with a cylindrical anisotropic ferrite magnet, located at the base of the cap.

These plugs are placed at the bottom of the reservoir or tank, and will collect the iron particles that are floating in the oil, helping to protect pumps, valves and cylinders.

Code 48004006000: Alnico magnet.

Code 48004011400: neodymium magnet.

Code	F	Ch	d	h1	h2	h3
48004006000	G 1/4"	19	5	7	10	6
48004009000	G 3/8"	22	8	7	10	7
48004012000	G 1/2"	27	10	8	10	7
48004019000	G 3/4"	34	13	8	10	7
48004025000	G 1"	40	13	8	14	7
48004011400	G 1 1/4"	50	10	10	15	15



M - Magnet.

G - Flat fiber gasket.

480029-34-42

ALUMINIUM FILL AND DRAIN PLUGS M/T(CN-CNS-SN)



Code (CN)	Code (CNS)	Code (SN)	F	Ch	h1	h2
48002906000	48003414000	48004206000	G 1/4"	19	7	10
48002909000	48003409000	48004209000	G 3/8"	22	7	10
48002912000	48003412000	48004212000	G 1/2"	27	8	10
48002919000	48003419000	48004219000	G 3/4"	34	8	10
48002925000	48003425000	48004225000	G 1"	40	8	14

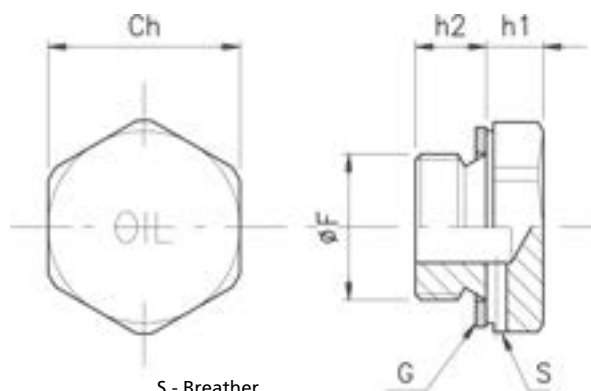
Hex head plugs, with or without breather hole, made of 11S aluminum alloy.

Model CNS includes breather hole.

Models M/TCN - M/TCNS are marked with the inscription OIL, the model M/TSN does not have an inscription.

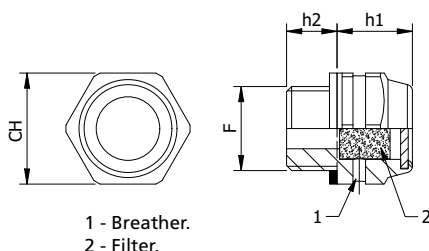
Includes FASIT 202 fiber gasket, oil resistant (flat aluminum washers are optionally available).

Available on request with metric threads (M10-M12-M14-M16-M18-M20).



S - Breather.

G - Flat fiber gasket.



1 - Breather.
2 - Filter.

Code	F	Ch	h1	h2	P(L/min)
48003806000	G 1/4"	18	15,5	9	37
48003809000	G 3/8"	22	14,5	10	33
48003812000	G 1/2"	27	14,5	10	50

Brass filler cap with flat fiber gasket.

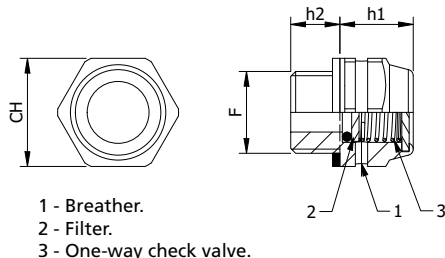
Two breather holes located under the hex head provide adequate airflow.

This version includes an internal metal filter with a filtration degree of 200 microns to avoid pollution in the oil.

These plugs are used in reducers, gearboxes, bearing housings and transmissions of all types.

Q: Air flow.

Available in AISI 316 stainless steel on request.

480044
FILLER PLUG KMV WITH ONE-WAY CHECK VALVE


Code	F	Ch	h1	h2
48004406000	G 1/4"	18	15,5	9
48004409000	G 3/8"	22	14,5	10
48004412000	G 1/2"	27	14,5	10

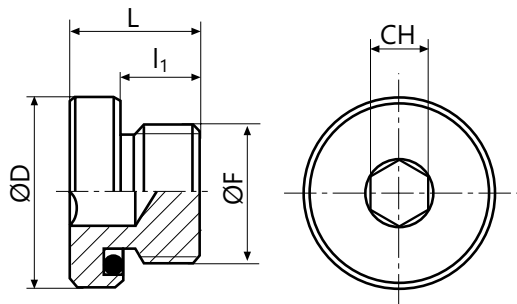
Brass filler cap with flat fiber gasket.

Two breathing holes located under the hexagonal head provide a adequate air flow. This version is used when it is necessary to vent the tank only in case of internal overpressure.

The valve's pre-compressed spring allows the disc to be released from its seat at a pressure of 0.4 bar/5.8 PSI, allowing air to escape and thus reducing the pressure inside the tank. Once the pressure is reduced, the valve closes, preventing both the circulation of air and the accidental release of oil due to movement.

These plugs are used in reducers, gearboxes, bearing housings and transmissions of all types.

Available in AISI 316 stainless steel on request.

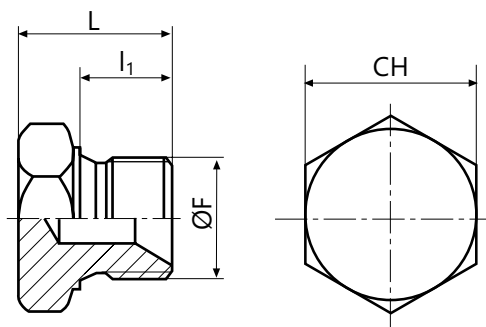
480028
CYLINDRICAL STEEL PLUGS WITH INTERNAL HEX AND RUBBER SEAL TTCE


Code	F	I1	L	D	CH
48002800300	G 1/8"	9	13	15	4
48002800600	G 1/4"	11	16	19	6
48002800900	G 3/8"	11	17	22	6
48002801200	G 1/2"	14	20	27	8
48002801900	G 3/4"	14	20	32	12
48002802500	G 1"	16	22	40	12
48002803100	G 1 1/4"	18	25	50	12
48002803700	G 1 1/2"	17	24	55	24
48002811000	M 10x1	8	12	15	5
48002811200	M 12x1.5	10	16	17	6
48002811400	M 14x1.5	10	16	19	6
48002811600	M 16x1.5	10	16	22	6
48002811800	M 18x1.5	11	17	25	6
48002812000	M 20x1.5	12	18	27	8
48002812200	M 22x1.5	12	18	28	8
48002812600	M 26x1.5	135	20	32	12
48002812700	M 27x2	135	20	32	12
48002813300	M 33x2	15	21	40	17
48002814200	M 42x2	17	24	50	22
48002814800	M 48x2	17	24	55	24

Material: Steel 11SMnPb37.

NBR 90 Shore durometer seal.

Working temperature: -20°C +100°C.

480045
HEX HEAD STEEL PLUG TTE


Code	F	I1	L	CH
48004500300	G 1/8"	8	13	14
48004500600	G 1/4"	11	17	19
48004500900	G 3/8"	12	19	22
48004501200	G 1/2"	14	22	27
48004501900	G 3/4"	16	25	32
48004502500	G 1"	19	29	41
48004503100	G 1 1/4"	20	31	50
48004503700	G 1 1/2"	21	33	55
48004511000	M 10x1	8	12	14
48004511200	M 12x1.5	10	15	17
48004511400	M 14x1.5	11	17	19
48004511600	M 16x1.5	12	19	22
48004511800	M 18x1.5	13	20	24
48004512000	M 20x1.5	14	22	27
48004512200	M 22x1.5	15	23	27
48004512400	M 24x1.5	16	25	30
48004512600	M 26x1.5	16	25	32

Material: Steel 11SMnPb37.

Working temperature: -20°C + 100°C.



FSB/05

FSB/25

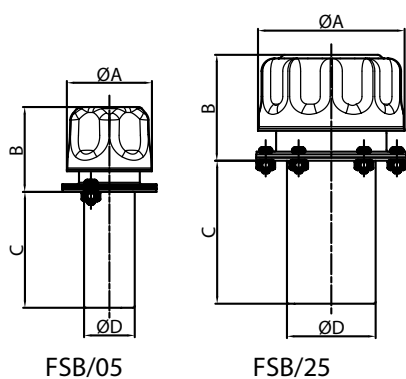


FSB/25/L



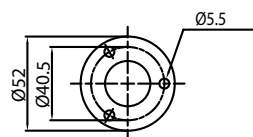
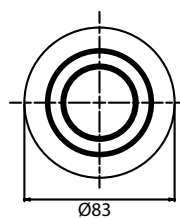
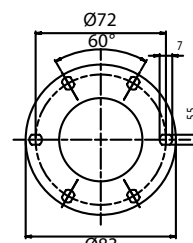
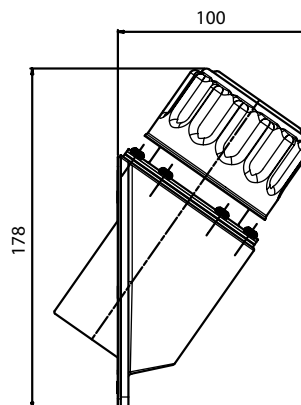
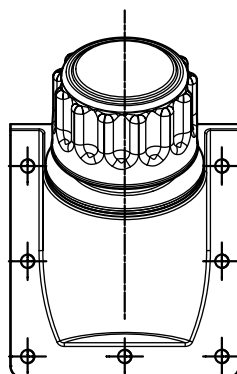
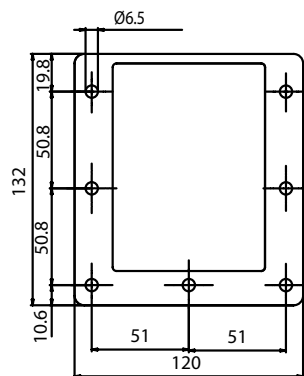
FSB/25 BM

Code	Model	Air flow	A	B	C	D
48001605000	FSB/05	120 Lt/min	46,5	44	65	27,5
48001625000	FSB/25 (L)	600 Lt/min	80	58,5	78,5	49
48001625200	FSB/25SD	600 Lt/min	80	55	105	38
48001625100	FSB/25BM	600 Lt/min	80	55	101	38



FSB/05

FSB/25


 Brida con 3 orificios
para FSB/05

 Brida para soldar
para FSB/25-SD

 Brida con 6 orificios
para FSB/25


Chromed steel ventilated lid.

Polyurethane filter element 40 microns, (10 microns available on request).

Flange mounting with 3 or 6 M5 screws.

Cap with bayonet connection.

The FSB/25SD version is manufactured without holes and prepared to be welded to the tank surface.

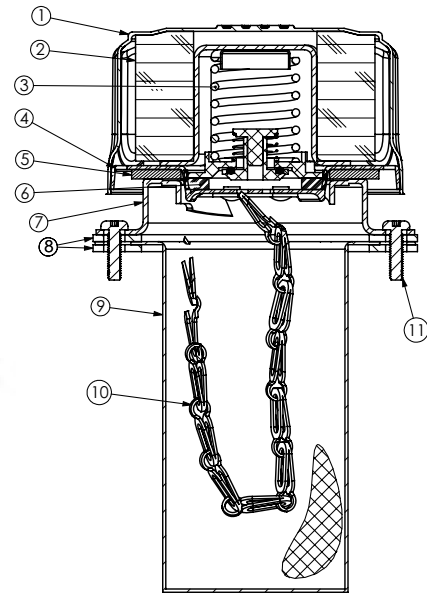
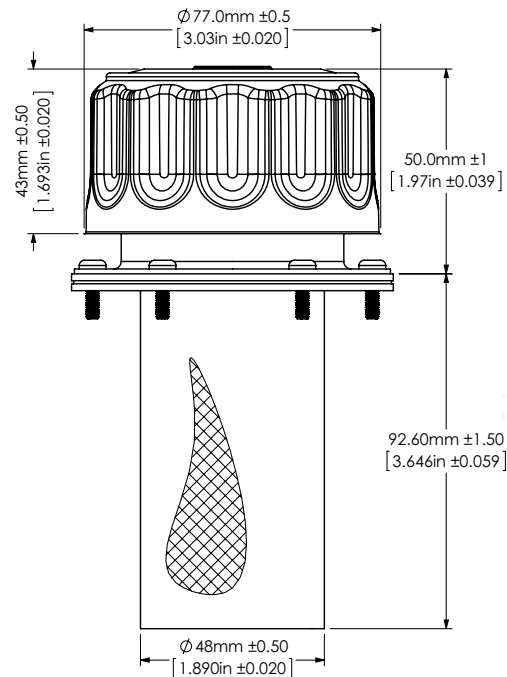
Standard 800 micron filtration grade metal strainer, removable in the FSB/25/38 model.

The rugged cast aluminum housing (model FSB/BM) is intended for side mounting on the tank.

Flat packing ring made of cork impregnated with rubber or, on request, in NBR synthetic rubber.

Available on request model FSB/25/L with safety lock.

Air flow up to 950 Lt/min.



Ref.	Description
1	Chrome plated cap
2	Polyurethane filter element 40μ
3	Security valve 0,35Bar/5 PSI
4	6 breather holes
5	NBR flat seal thickness 2,6mm
6	Internal seal NBR 24x30x5mm
7	Zinc plated cap with bayonet connection
8	NBR seals for flange OD 84x1,8mm thickness
9	Zinc plated strainer
10	Zinc plated chain
11	Zinc plated screws

Pressure fill vent cap, made of chromed steel, is equipped with a 40 micron air filter and a double pressurized valve system that allows to maintain a constant pressure in the tank.

When the liquid level drops, air enters the reservoir through the suction valve and air filter. When the level rises, the pressure increase created is regulated by the safety valve (set at 0.35 Bar / 5 PSI) allowing the airflow to exit the tank only once that pressure is reached.

This pressurization system reduces the volume of air allowed in the tank, and consequently reduces the entry of impurities into the oil, keeping the fluid clean.

Ultimately, this will help the proper functioning of the hydraulic system.

These plugs are recommended for systems operating in extremely dusty environments and mobile applications where leak prevention is a must.

Base, flange mounted with 6 screws. Supplied with rubber gasket and M5 fixing screws.

Avoid contact with water.

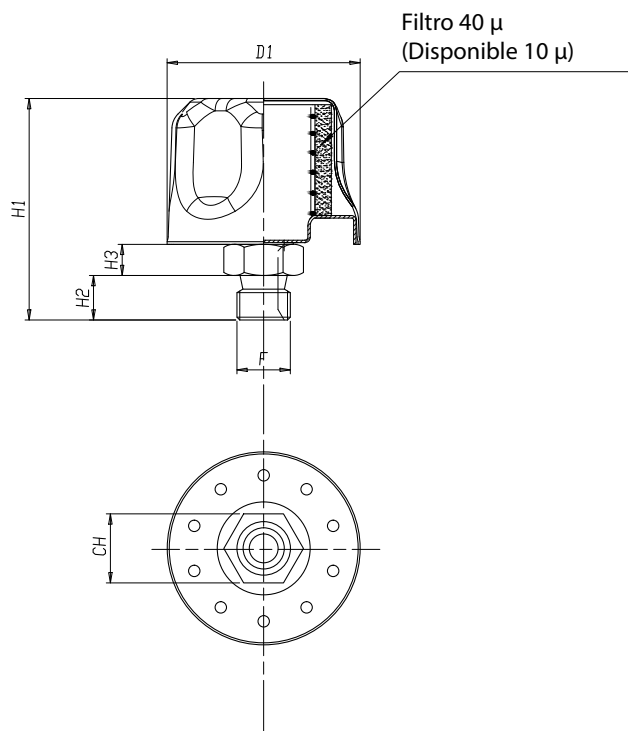
480058-46
METAL FILLER BREATHER TA46


Code	F	Ch	D1	H1	H2	H3	P(l/min)
48005806000	G1/4"	17	46	52	10	7	130
48005809000	G3/8"	19	46	54	12	7	168
48005812000	G1/2"	24	46	56	14	9	175
48005819000	G3/4"	30	46	54	16	8	170

Filler plugs made of zinc-plated steel, chrome-plated plug, screw-on version, equipped with male BSP thread sizes 1/4" to 1".

Air filter element made of polyurethane foam, standard grade filtration 40 microns (10 microns on request), allowing the tank to breathe while protecting it from contamination from harsh environments.

Air flow (P) indicated in the table expressed in litres/minute using a pressure of 50 mbar (0.73 PSI).

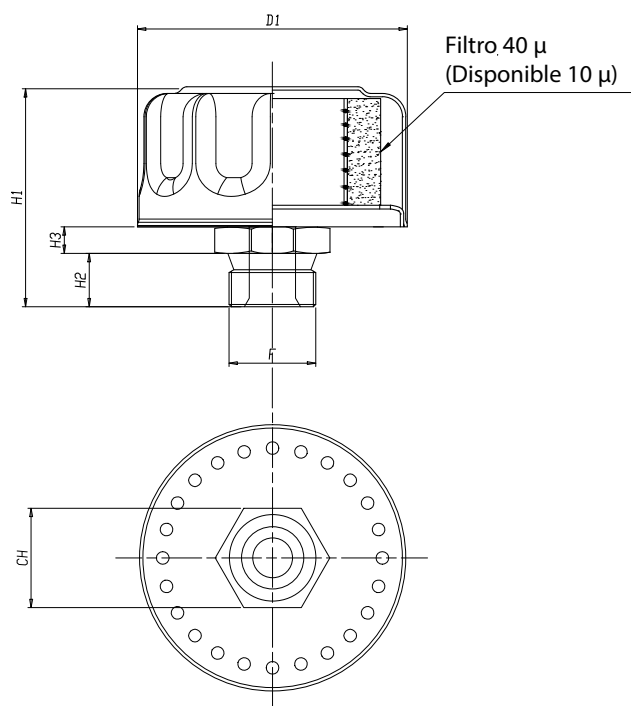

480058-80
METAL FILLER BREATHER TA80

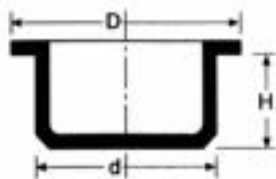

Code	F	Ch	D1	H1	H2	H3	P(l/min)
48005812080	G1/2"	24	80	68	14	8	670
48005819080	G3/4"	30	80	70	16	8	680

Filler plugs made of zinc-plated steel, chrome-plated plug, screw-on version, equipped with male BSP thread sizes 1/4" to 1".

Air filter element made of polyurethane foam, standard grade filtration 40 microns (10 microns on request), allowing the tank to breathe while protecting it from contamination from harsh environments.

Air flow (P) indicated in the table expressed in litres/minute using a pressure of 50 mbar (0.73 PSI).





Protection plugs for female threads.
Material: Low density polyethylene.
Natural colour.

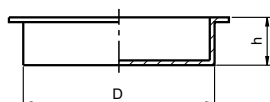
Code	d	D	H	Metric thread			BSP
48000500001	2	6,5	3				
48000500002	2,5	6,5	3,5				
48000500003	3	6,5	4,5				
48000500004	3,5	7	4,5	M4			
48000500005	4	7,5	5				
48000500006	4,5	8	5	M5			
48000500007	5	9	6	M6			
48000500008	5,5	9	6				
48000500009	6	9,5	6	M7			
48000500010	6,5	10	7				
48000500011	7	10	6	M8			
48000500012	7,5	10,5	6,5		M8x1		
48000500013	8	11	7				
48000500014	8,5	11,5	7,5	M10			
48000500015	9	11,5	7,5		M10x1	G1/8"	
48000500016	9,5	12,5	7,5				
48000500017	10	13	8,5				
48000500018	10,5	13,5	8	M12	M12x1,5		
48000500019	11	14	8,5		M12x1,25		
48000500020	11,5	14,5	9		M12x1		
48000500021	12	15	8,5			G1/4"	
48000500022	12,5	15,5	9	M14			
48000500023	13	16	9		M14x1,5		
48000500024	13,5	16,5	9,5				
48000500025	14	17	9,5				
48000500026	14,5	17,5	9,5	M16			
48000500027	15	18	9,5		M16x1,5		
48000500028	15,5	18,5	9,5			G3/8"	
48000500029	16	19,5	10	M18			
48000500030	16,5	19,5	10,5		18x2		
48000500031	17	20,5	10,5		M18x1,5		
48000500032	17,5	20,5	10,5				
48000500033	18	21,5	10,5	M20			
48000500034	18,5	23	10		20x2		
48000500035	19	22	10,5		M20x1,5	G1/2"	
48000500036	19,5	23	10,5				
48000500037	20	23,5	11	M22			
48000500038	20,5	24,5	10,5		22x2		
48000500039	21	24,5	11		M22x1,5	G5/8"	
48000500040	21,5	25,5	11	M24			
48000500041	22	25,5	11				
48000500042	22,5	25,5	10,5		24x2		
48000500043	23	27	10,5		M24x1,5		
48000500044	23,5	27	10,5				
48000500045	24	28	11				
48000500046	24,5	28	10,5	M27		G3/4"	
48000500047	25	28	12			G3/4"	
48000500048	25,5	29	10,5	M27x2			
48000500049	26	30,5	10,5		M27x1,5		
48000500050	26,5	30	10,5				

Code	d	D	H	Metric thread			BSP
48000500051	27	31	9,5	M30		M28x1,5	
48000500052	27,5	31	10,5				
48000500053	28	32,5	10,5				
48000500054	28,5	32	10		M30x2		G7/8"
48000500055	29	32	9,5			M30x1,5	
48000500056	29,5	33	10,5				
48000500057	30	33	9,5	M33			
48000500058	30,5	34	10,5				G1"
48000500059	31	35,5	10,5			M32x1,5	G1"
48000500060	31,5	35	10,5		M33x2		
48000500061	32	37	10,5				
48000500062	32,5	37	10,5	M36			
48000500063	33	38	10,5				
48000500064	33,5	37,5	10,5		M36x3		
48000500065	34	38,5	10,5				
48000500066	34,5	38	10,5				
48000500067	35	40	10,5		M36x2	M36x1,5	
48000500068	35,5	39	10,5	M39			
48000500069	36	41	11				
48000500070	36,5	40	10,5		M39x3		
48000500071	37	42	10,5				
48000500072	37,5	41,5	10,5			M39x2	
48000500073	38	43	10,5	M42		M39x1,5	
48000500074	38,5	42	10,5				
48000500075	39	44	10,5				
48000500076	39,5	43	11		M42x3		G1.1/4"
48000500077	40	44,5	10,5				
48000500078	40,5	45	11		M42x2		
48000500079	41	45,5	10,5	M45		M42x1,5	
48000500080	42	46,5	10,5				
48000500081	43	47,5	10,5				
48000500082	44	49	10,5	M48	M45x2	M45x1,5	
48000500083	45	50,5	10,5				
48000500084	46	50,5	10,5				G1.1/2"
48000500085	47	51,5	10,5	M52	M48x2	M48x1,5	
48000500086	48	52,5	10,5				
48000500176	48,5	53	10,5				
48000500087	49	54,5	11		M52x3		
48000500088	50	54	10				
48000500089	51	56	11	M56	M52x2	M52x1,5	
48000500090	52	57,5	11				
48000500091	53	59	11				
48000500092	54	61	11			M55x1,5	
48000500093	55	61	11			M56x1,5	
48000500094	56	63	12		60x4		
48000500095	57	61	10				
48000500096	58	63	14				G2"
48000500097	58	65	11			M60x2	
48000500098	59	65	11			M60x1,5	
48000500099	60	64	11				

Code	d	D	H	BSP
48000500100	61	68	11	
48000500101	61,5	68	13	
48000500102	62	68	11	
48000500103	62,5	67	9,5	
48000500105	63,5	68	9,5	
48000500106	65	69	10	
48000500107	65,5	71	11	
48000500108	67	73	10	
48000500109	68	75	11	
48000500110	68,5	75	11	
48000500111	69,5	74	11	
48000500112	71	77	11	
48000500114	72	79	12	
48000500115	72,5	77	9,5	
48000500116	74	78	11	G. 2 1/2"
48000500118	75	79		
48000500119	76	80	9,5	
48000500120	77	81	11	
48000500121	78	82	9,5	
48000500122	79	86	11	
48000500123	79,5	84	14	
48000500124	80,5	85	9,5	
48000500125	82	86	9,5	
48000500126	82,5	87	9,5	
48000500127	83,5	90	9,5	
48000500129	84,5	89	10	
48000500130	85,5	92	9,5	G. 3"
48000500131	86	90	11	
48000500132	86	91	9,5	
48000500133	86,5	91	9,5	
48000500134	87	92	9,5	
48000500135	88	93	9,5	
48000500136	89,5	94	9,5	
48000500137	91	95	9,5	
48000500138	92	96	9,5	

Code	d	D	H	BSP
48000500139	93	101	14	
48000500140	94	98	9,5	
48000500141	95	98	9,5	
48000500142	96	104	14	
48000500143	97	101	9,5	
48000500144	98	102	9,5	
48000500145	99	103	9,5	
48000500146	100	104	11	
48000500147	101	105	11	
48000500165	102	104	10	
48000500148	103	113	14	
48000500166	104	107	11	
48000500167	105	108	11	
48000500168	106	109	11	
48000500149	107	115	14	
48000500169	107,5	112	11	
48000500170	110	114	12	
48000500150	111	117	13	G. 4"
48000500171	112	115	10	
48000500151	115	124	15	
48000500152	120	130	16	
48000500172	121	123	12	
48000500153	125	136	16	
48000500173	129	135	13	
48000500154	132	141	14	
48000500155	140	151	16	
48000500156	150	160	16	
48000500157	160	170	16	
48000500158	167	178	18	
48000500174	170	175	14	
48000500159	180	191	16	
48000500160	184	194	16	
48000500161	186	194	16	
48000500175	190	195	14	
48000500162	200	211	15	

480089 PROTECTOR PF



Protective caps for female threaded holes with diameter F, made of low-density polyethylene.

Standard colour: Red.

They protect the threads from the ingress of dust and shock during transport, at a very low cost.

Code	Thread	D	h
48008910002	G 1/8"	9	8,5
48008911002	G 1/4"	12	9
48008915002	G 3/8"	15,5	10,5
48008919002	G 1/2"	19	11,5
48008925002	G 3/4"	25	12,7
48008931002	G 1"	30,5	11
48008940002	G 1 1/4"	39,5	11,5
48008946002	G 1 1/2"	46	11,5
48008914002	M14x1,5	12,5	10
48008916002	M16x1,5	14,2	10
48008918002	M18x1,5	16,5	10
48008920002	M20x1,5	18,5	10
48008922002	M22x1,5	20,2	10



Material: Low density polyethylene.
Natural or yellow colour.
Ask for MOQ.



Code	Ø d	Thread reference	H
48000600001	4		22
48000600002	5		18
48000600003	6		18
48000600004	6,35		18
48000600005	7		18
48000600006	8		19
48000600007	9,6	G.1/8"	18
48000600008	10		18
48000600009	11		15
48000600072	11,5		19,5
48000600010	12		18
48000600011	12,7		18
48000600012	13	G.1/4"	18
48000600013	13,7		18
48000600014	14		20
48000600015	15		19
48000600016	15,5		19,5
48000600017	16		20
48000600018	17	G.3/8"	20
48000600019	18		20
48000600020	18,5		20
48000600021	19		20
48000600022	20		20
48000600023	21,3	G.1/2"	16
48000600024	22		20
48000600025	23,2		19
48000600026	24		20
48000600027	25,4		20
48000600029	26		20
48000600030	26,9	G.3/4"	20
48000600031	28,5		23,5
48000600032	30		25
48000600033	31,8		20
48000600034	33,7	G.1"	20
48000600035	35		25
-	36,5		20

Code	Ø d	Thread reference	H
48000600036	38		20
48000600038	40		25
48000600039	41,3		20
48000600040	42,4	G 1 1/4"	25
48000600041	44,5		25
48000600042	45,4		20
48000600043	47,5		25
48000600044	48,3		25
-	50	G 1 1/2"	28
48000600045	51		27,5
48000600046	52		28
48000600048	54		28
48000600049	55		29
48000600050	57	G 1 3/4"	27
48000600051	59		27
48000600052	60,3		27
48000600053	63,5		27
48000600054	65	G. 2"	35
48000600055	67		35
48000600056	70		35,5
48000600057	73		30
48000600058	75		28
48000600059	76	G. 2 1/2"	30
48000600060	77		35
48000600061	78		29,5
48000600062	80		29,5
48000600063	81		29,5
48000600064	82		30
48000600065	83		30
48000600066	85		30
48000600067	88,9		35
-	90		35
48000600068	92,4		25
48000600069	95	G. 3"	37,5
48000600070	98		37,5
48000600071	100		31



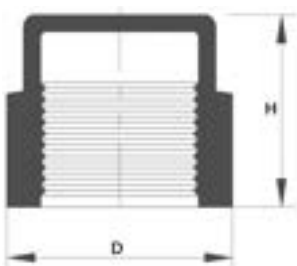
Low density polyethylene.
Red color.
Threaded cap recommended as
protection against dust and
humidity during transport and
storage
Ask for minimum quantities.



Code	Thread	D	H	h
48009718000	1/8" x 28	16,4	10,5	4,2
48009706000	1/4" x 19	18,8	12,8	6,5
48009709000	3/8" x 19	22,9	12	5,5
48009712000	1/2" x 14	28	17,3	10,3
48009758000	5/8" x 14	31,3	18,4	13,9
48009734000	3/4" x 14	32,3	17	11
48009778000	7/8" x 14	38	18,1	13,5
48009725000	1" x 11	39,8	16,9	10,8
48009726000	1,1/4" x 11	49,9	20,9	15
48009727000	1,1/2" x 11	55,2	16,9	18,5
48009750000	2" x 11	73,7	17,5	10,7
48009760000	3" x 11	105	16,5	11,3



Material: Polyethylene.
Yellow colour.
Ask for minimum quantities.



Code	Thread	D	H
48009310800	M8x1	12	12
48009311000	M10x1	14,5	14
48009311200	M12x1	16,5	14
48009311201	M12x1,5	16,5	14
48009311400	M14x1,5	18,5	14
48009311600	M16x1,5	20,5	14
48009311800	M 18x1,5	22	15
48009312000	M 20x1,5	24,5	16
48009312200	M 22x1,5	26,5	16
48009312400	M 24x1,5	28,5	16
48009312600	M 26x1,5	31	15
48009312700	M 27x2	32	15
48009313000	M 30 x1,5	35	16
48009313001	M 30 x 2	35	16
48009313600	M 36x1,5	42	18,5
48009313601	M 36 x 2	42	18,5
48009314200	M 42 x 2	50,5	18
48009314500	M 45 x 1,5	51,5	20,5
48009314501	M 45 x 2	51,5	20,5
48009315200	M 52 x 2	59	20
48009300300	G. 1/8"	13	12
48009300600	G. 1/4"	16	13
48009300900	G. 3/8"	20,5	14,5
48009301200	G. 1/2"	24,5	15,5
48009301500	G. 5/8"	28	15,5
48009301900	G. 3/4"	30,5	16,5
48009302500	G. 1"	40	19,5
48009303100	G. 1 1/4"	48	17,5
48009303700	G 1 1/2"	56	18
48009305000	G 2"	68	19
48009306300	G 2 1/2"	83	31

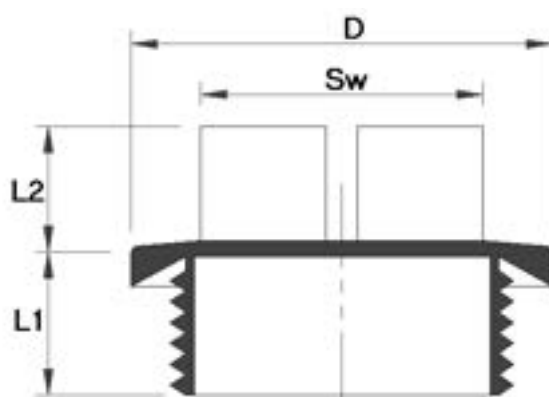


Red Polyethylene (PE) version.
Max working temperature +70°C/+158°F.
Ask for minimum quantities.



Yellow Polyamide (PA6) version.
Max working temperature +90°C/+194°F.
Ask for minimum quantities.

PE Code (Red)	PA6 Code (Yellow)	Thread	D	L1	L2	Sw
48008791000	48008791001	M10x1	14,2	7	10	10
48008791200	48008791201	M12x1,5	17,2	10	10	13
48008791400	48008791401	M14x1,5	19,2	10	10	13
48008791600	48008791601	M16x1,5	22	10	10	17
48008791800	48008791801	M 18x1,5	24	10	11	17
48008792000	48008792001	M 20x1,5	26	10	14	19
48008792200	48008792201	M 22x1,5	27,2	10	14	19
48008792400	48008792401	M 24x1,5	31,5	12	14	24
48008792600	48008792601	M 26x1,5	32	10	14	24
48008792700	48008792701	M 27x2	32,3	13	14	24
48008793300	48008793301	M 33x2	40,4	13	14	27
48008794200	48008794201	M 42x2	50	13	15	36
48008703000	48008703001	G. 1/8"	16,8	9	10	13
48008706000	48008706001	G. 1/4"	19,2	9	10	13
48008709000	48008709001	G. 3/8"	22,2	9	11	17
48008712000	48008712001	G. 1/2"	27,2	12	13	19
48008719000	48008719001	G. 3/4"	32,3	12	13	24
48008725000	48008725001	G. 1"	40	15	14	27
48008731000	48008731001	G. 1 1/4"	50,4	15	15	36
48008737000	48008737001	G 1 1/2"	55,4	15	15	41
48008750000	48008750001	G 2"	68,4	15	15	55



Other components for hydraulics



4800141
One float level switch
with threaded head G 1"



4800142
Two floats level switch
with threaded head G 1"



4800151
One Float level switch
with flange



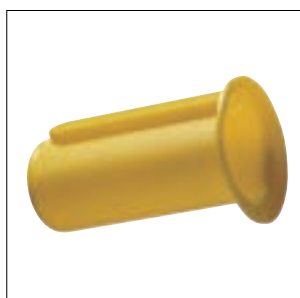
4800152
Two Float level switch
with flange



480046-480048
Breather plug with sintered
bronze filter (50 microns)



480024
Grease nipple cap



480095
Shaft protection cap



480096
EPDM cap



4800681
Protections for
quick coupling



4800682
Protections for
quick coupling



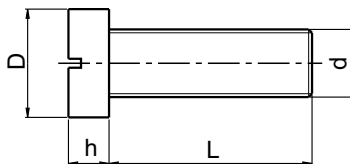
480098
Protections for maximum
pressure valve



FLAT GASKETS
Available in Fasit 202, Rollmart,
NBR and aluminum alloy

See more details on our website

520001 DIN 84 SLTOTTED CHEESE HEAD SCREWS



Material natural polyamide 6.6.

Other lengths: please ask..

*Similar to DIN 84

Code	d	L	h	D	Units/Bag
52000102006	M2	6	1.3	3.8	1000
52000102008	M2	8	1.3	3.8	1000
52000102010	M2	10	1.3	3.8	1000
52000102016	M2	16	1.3	3.8	1000
52000102020	M2	20	1.3	3.8	1000
52000102506	M2,5	6	1.6	4.5	1000
52000102508	M2,5	8	1.6	4.5	1000
52000102510	M2,5	10	1.6	4.5	1000
52000102512	M2,5	12	1.6	4.5	1000
52000103006	M3	6	2	5.5	200
52000103008	M3	8	2	5.5	200
52000103010	M3	10	2	5.5	200
52000103012	M3	12	2	5.5	200
52000103016	M3	16	2	5.5	200
52000103020	M3	20	2	5.5	200
52000103025	M3	25	2	5.5	200
52000103030	M3	30	2	5.5	200
52000104006	M4	6	2.6	7	200
52000104008	M4	8	2.6	7	200
52000104010	M4	10	2.6	7	200
52000104012	M4	12	2.6	7	200
52000104016	M4	16	2.6	7	200
52000104020	M4	20	2.6	7	200
52000104025	M4	25	2.6	7	200
52000104030	M4	30	2.6	7	200
52000104035	M4	35	2.6	7	200
52000104040	M4	40	2.6	7	200
52000105006	M5	6	3.3	8.5	200
52000105008	M5	8	3.3	8.5	200
52000105010	M5	10	3.3	8.5	200
52000105012	M5	12	3.3	8.5	200
52000105014	M5	14	3.3	8.5	200
52000105016	M5	16	3.3	8.5	200

Code	d	L	h	D	Units/Bag
52000105020	M5	20	3.3	8.5	200
52000105025	M5	25	3.3	8.5	200
52000105030	M5	30	3.3	8.5	200
52000105035	M5	35	3.3	8.5	200
52000105040	M5	40	3.3	8.5	200
52000105045	M5	45	3.3	8.5	200
52000105050	M5	50	3.3	8.5	200
52000106006	M6	6	3.9	10	200
52000106008	M6	8	3.9	10	200
52000106010	M6	10	3.9	10	200
52000106012	M6	12	3.9	10	200
52000106016	M6	16	3.9	10	200
52000106020	M6	20	3.9	10	200
52000106025	M6	25	3.9	10	200
52000106030	M6	30	3.9	10	200
52000106035	M6	35	3.9	10	200
52000106040	M6	40	3.9	10	200
52000106045	M6	45	3.9	10	200
52000106050	M6	50	3.9	10	200
52000106060	M6	60	3.9	10	100
52000106070	M6	70	3.9	10	100
52000108010	M8	10	5	13	200
52000108016	M8	16	5	13	200
52000108020	M8	20	5	13	200
52000108025	M8	25	5	13	200
52000108030	M8	30	5	13	200
52000108035	M8	35	5	13	200
52000108040	M8	40	5	13	100
52000108050	M8	50	5	13	100
52000108060	M8	60	5	13	100
52000108080	M8	80	5	13	100
52000110020	M10	20	6	16	500
52000110030	M10	30	6	16	500

520010 DIN 551 GRUB SCREWS



Made of Polyamide 6.6 in natural white color.
On request we can manufacture in other lengths.
*The slot does not reach the ends.
For other measurements, consult minimum quantities and units. / bag.



Code	d	L	Units/Bag
52001003006	M3	6	1000
52001003008	M3	8	1000
52001004006	M4	6	200
52001004008	M4	8	200
52001004010	M4	10	200
52001004012	M4	12	200
52001004016	M4	16	200
52001004020	M4	20	200
52001004025	M4	25	200
52001004030	M4	30	200
52001004035	M4	35	200
52001004040	M4	40	200
52001005006	M5	6	200
52001005008	M5	8	200
52001005010	M5	10	200
52001005012	M5	12	200
52001005016	M5	16	200
52001005020	M5	20	200
52001005025	M5	25	200
52001005030	M5	30	200
52001005035	M5	35	200
52001005040	M5	40	200
52001005045	M5	45	200
52001005050	M5	50	200
52001006005	M6	5	200
52001006008	M6	8	200

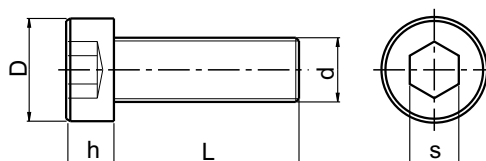
Code	d	L	Units/Bag
52001006010	M6	10	200
52001006012	M6	12	200
52001006016	M6	16	200
52001006020	M6	20	200
52001006025	M6	25	200
52001006030	M6	30	200
52001006035	M6	35	200
52001006040	M6	40	200
52001006045	M6	45	200
52001006050	M6	50	200
52001006060	M6	60	200
52001006070	M6	70	200
52001008010	M8	10	200
52001008016	M8	16	200
52001008020	M8	20	200
52001008025	M8	25	200
52001008030	M8	30	200
52001008035	M8	35	200
52001008040	M8	40	200
52001008050	M8	50	200
52001008060	M8	60	200
52001008080	M8	80	200
52001010020	M10	20	200
52001010025	M10	25	200
52001010030	M10	30	100
52001010040	M10	40	100

520012 DIN 912 SOCKET HEAD SCREWS



Made of Polyamide 6.6 in natural white color.
On request we can manufacture in other lengths.
For other measurements, consult minimum quantities and units. / bag.

Code	d	L	h	D	s	Units/Bag
52001208016	M8	16	8	13	6	1000
52001208030	M8	30	8	13	6	1000
52001210016	M10	16	10	16	8	500
52001210030	M10	30	10	16	8	500
52001212030	M12	30	12	18	10	250
52001212050	M12	50	12	18	10	250
52001212060	M12	60	12	18	10	250

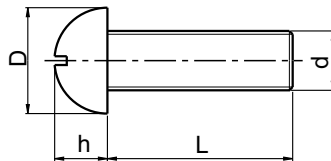


520020**SLOTTED ROUND HEAD SCREWS**

Made of Polyamide 6.6 in natural white color. On request we can manufacture in other lengths.

For other measurements, consult minimum quantities and units. / bag.

Code	d	L	h	D	Units/Bag
52002003006	M3	6	2.7	5.5	1000
52002003010	M3	10	2.7	5.5	1000
52002003016	M3	16	2.7	5.5	1000
52002003020	M3	20	2.7	5.5	1000
52002004010	M4	10	3.5	7	1000
52002004016	M4	16	3.5	7	1000
52002004020	M4	20	3.5	7	1000
52002005010	M5	10	4.5	9	1000
52002005016	M5	16	4.5	9	1000
52002005020	M5	20	4.5	9	1000
52002006016	M6	16	5	10	1000
52002006020	M6	20	5	10	1000
52002006025	M6	25	5	10	1000
52002006030	M6	30	5	10	1000

**520061****CROSS-SLOTTED COUNTERSUNK SCREWS**

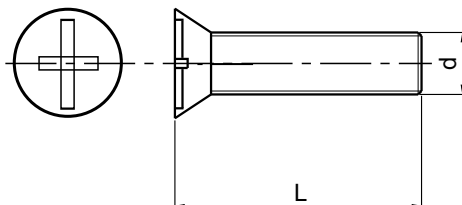
Made of Polyamide 6.6 in natural white color.

On request we can manufacture in other lengths.

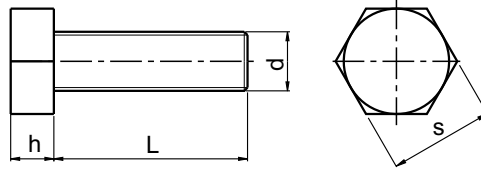
For other measurements, consult minimum quantities and units. / bag.

Similar to DIN 963-965.

Code	d	L	Units/Bag
52006103006	M3	6	200
52006103008	M3	8	200
52006103010	M3	10	200
52006103012	M3	12	200
52006103015	M3	15	200
52006103020	M3	20	200
52006103030	M3	30	200
52006104006	M4	6	200
52006104008	M4	8	200
52006104010	M4	10	200
52006104012	M4	12	200
52006104016	M4	16	200
52006104020	M4	20	200
52006104025	M4	25	200
52006104030	M4	30	200
52006104040	M4	40	200
52006105010	M5	10	200
52006105012	M5	12	200
52006105015	M5	15	200
52006105020	M5	20	200
52006105030	M5	30	200
52006105040	M5	40	200
52006106015	M6	15	200
52006106020	M6	20	200
52006106030	M6	30	200
52006106040	M6	40	200



520030 DIN 933-931 HEXAGONAL HEAD SCREWS

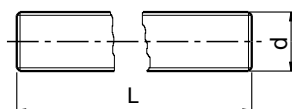


Made of Polyamide 6.6 in natural white color.
On request we can manufacture in other lengths.
For other measurements, consult minimum quantities and units. / bag.

Code	d	L	h	S	Units/Bag
52003003006	M3	6	2	5.5	200
52003003008	M3	8	2	5.5	200
52003003010	M3	10	2	5.5	200
52003003012	M3	12	2	5.5	200
52003003016	M3	16	2	5.5	200
52003003020	M3	20	2	5.5	200
52003003025	M3	25	2	5.5	200
52003003030	M3	30	2	5.5	200
52003004006	M4	6	2.8	7	200
52003004008	M4	8	2.8	7	200
52003004010	M4	10	2.8	7	200
52003004012	M4	12	2.8	7	200
52003004016	M4	16	2.8	7	200
52003004020	M4	20	2.8	7	200
52003004025	M4	25	2.8	7	200
52003004030	M4	30	2.8	7	200
52003004035	M4	35	2.8	7	200
52003004040	M4	40	2.8	7	200
52003005006	M5	6	3.5	8	200
52003005008	M5	8	3.5	8	200
52003005010	M5	10	3.5	8	200
52003005012	M5	12	3.5	8	200
52003005016	M5	16	3.5	8	200
52003005020	M5	20	3.5	8	200
52003005025	M5	25	3.5	8	200
52003005030	M5	30	3.5	8	200
52003005035	M5	35	3.5	8	200
52003005040	M5	40	3.5	8	200
52003005045	M5	45	3.5	8	200
52003005050	M5	50	3.5	8	200
52003006006	M6	6	4	10	200
52003006008	M6	8	4	10	200

Code	d	L	h	S	Units/Bag
52003006010	M6	10	4	10	200
52003006012	M6	12	4	10	200
52003006016	M6	16	4	10	200
52003006020	M6	20	4	10	200
52003006025	M6	25	4	10	200
52003006030	M6	30	4	10	200
52003006035	M6	30	4	10	200
52003006040	M6	40	4	10	200
52003006045	M6	45	4	10	200
52003006050	M6	50	4	10	200
52003006060	M6	60	4	10	200
52003006070	M6	70	4	10	100
52003008010	M8	10	5.3	13	200
52003008016	M8	16	5.3	13	200
52003008020	M8	20	5.3	13	200
52003008025	M8	25	5.3	13	200
52003008030	M8	30	5.3	13	200
52003008035	M8	35	5.3	13	200
52003008040	M8	40	5.3	13	200
52003008050	M8	50	5.3	13	200
52003008060	M8	60	5.3	13	200
52003008080	M8	80	5.3	13	200
52003010020	M10	20	6.5	17	200
52003010025	M10	25	6.5	17	200
52003010030	M10	30	6.5	17	100
52003010040	M10	40	6.5	17	100
52003010050	M10	50	6.5	17	250
52003012040	M12	40	10	19	500
52003012050	M12	50	10	19	250
52003016016	M16	16	10	24	250
52003016030	M16	30	10	24	250
52003016050	M16	50	10	24	250

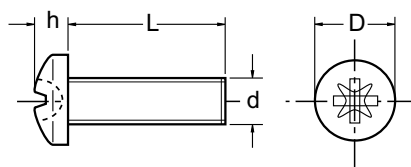
520050 DIN 975 THREADED ROD



Made of Polyamide 6.6 in natural white color.
For other measurements, consult minimum quantities
and units. / bag.

Code	d	L
52005000003	M3	1000
52005000004	M4	1000
52005000005	M5	1000
52005000006	M6	1000
52005000008	M8	1000
52005000010	M10	1000
52005000012	M12	1000
52005000014	M14	1000
52005000016	M16	1000
52005000018	M18	1000
52005000020	M20	1000

520057 CROSSED PAN HEAD SCREWS



Made of Polyamide 6.6 in
natural white color.

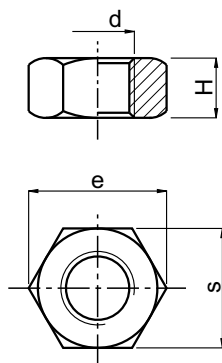
Code	d	L	h	D	Units/Bag
52005702006	M2	6	1.3	3.8	1000
52005702008	M2	8	1.3	3.8	1000
52005702010	M2	10	1.3	3.8	1000
52005702012	M2	12	1.3	3.8	1000
52005702016	M2	16	1.3	3.8	1000
52005702020	M2	20	1.3	3.8	1000
52005702506	M2,5	6	1.6	4.5	1000
52005702508	M2,5	8	1.6	4.5	1000
52005702510	M2,5	10	1.6	4.5	1000
52005702512	M2,5	12	1.6	4.5	1000
52005702516	M2,5	16	1.6	4.5	1000
52005702520	M2,5	20	1.6	4.5	1000
52005703006	M3	6	2.4	5.6	200
52005703008	M3	8	2.4	5.6	200
52005703010	M3	10	2.4	5.6	200
52005703012	M3	12	2.4	5.6	200
52005703016	M3	16	2.4	5.6	200
52005703020	M3	20	2.4	5.6	200
52005703025	M3	25	2.4	5.6	200
52005703030	M3	30	2.4	5.6	200
52005704006	M4	6	3.1	8	200
52005704008	M4	8	3.1	8	200
52005704010	M4	10	3.1	8	200
52005704012	M4	12	3.1	8	200
52005704016	M4	16	3.1	8	200
52005704020	M4	20	3.1	8	200
52005704025	M4	25	3.1	8	200
52005704030	M4	30	3.1	8	200
52005704035	M4	35	3.1	8	200
52005704040	M4	40	3.1	8	200
52005705006	M5	6	3.7	9.5	200
52005705008	M5	8	3.7	9.5	200

Code	d	L	h	D	Units/Bag
52005705010	M5	10	3.7	9.5	200
52005705012	M5	12	3.7	9.5	200
52005705016	M5	16	3.7	9.5	200
52005705020	M5	20	3.7	9.5	200
52005705025	M5	25	3.7	9.5	200
52005705030	M5	30	3.7	9.5	200
52005705035	M5	35	3.7	9.5	200
52005705040	M5	40	3.7	9.5	200
52005705045	M5	45	3.7	9.5	200
52005705050	M5	50	3.7	9.5	200
52005706005	M6	5	4.6	12	200
52005706008	M6	8	4.6	12	200
52005706010	M6	10	4.6	12	200
52005706012	M6	12	4.6	12	200
52005706016	M6	16	4.6	12	200
52005706020	M6	20	4.6	12	200
52005706025	M6	25	4.6	12	200
52005706030	M6	30	4.6	12	200
52005706035	M6	35	4.6	12	200
52005706040	M6	40	4.6	12	200
52005706045	M6	45	4.6	12	200
52005706050	M6	50	4.6	12	200
52005706060	M6	60	4.6	12	200
52005706070	M6	70	4.6	12	200
52005708020	M8	20	6	16	1000
52005708025	M8	25	6	16	1000
52005708030	M8	30	6	16	1000
52005708040	M8	40	6	16	1000
52005708050	M8	50	6	16	1000
52005710020	M10	20	7.5	20	1000
52005710030	M10	30	7.5	20	1000
52005710040	M10	40	7.5	20	1000

520098 DIN 934 HEXAGONAL NUTS



Material natural polyamide 6.6.



Code	d	H	s	e	Units/Bag
52009802000	M2	1,6	4	4,4	1000
52009802500	M2,5	2	5	5,5	1000
52009803000	M3	2,4	5,5	6,1	200
52009804000	M4	3,2	7	8	200
52009805000	M5	4,7	8	9	200
52009806000	M6	5,2	10	11,2	200
52009808000	M8	6,5	13	15	200
52009810000	M10	8,2	16	19,2	200
52009812000	M12	10,8	18	21,2	100
52009814000	M14	12,8	21	24,5	500
52009816000	M16	14,8	24	27	50
52009820000	M20	18	30	33	250
52009824000	M24	21,5	36	41	250

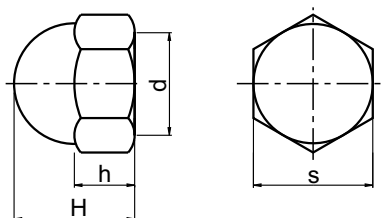
520086 DIN 1587 DOME NUTS



Made of Polyamide 6.6 in natural white color.

* Similar to Din 1587.

For other measurements, consult minimum quantities and units. / bag.



Code	d	s	h	H	Units/Bag
*52008600003	M3	5,5	3	6,5	200
52008600004	M4	7	3,2	7,6	100
52008600005	M5	8	4	9,6	100
52008600006	M6	10	5	11,6	100
52008600008	M8	13	6,5	14,6	100
52008600010	M10	17	8	17,6	100
52008600012	M12	19	10	22	500

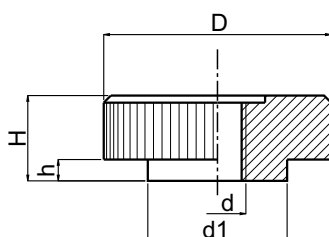
520088 KNURLED THUMB NUT



Material natural polyamide 6.6.

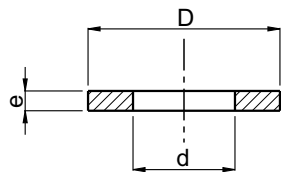
MOQ: Units/Bag

*Similar to DIN 467



Code	d	D	d1	H	h	Units/Bag
52008804000	M4	16	10	6	1,5	500
52008805000	M5	16	10	6	1,5	500
52008806000	M6	16	10	6	1,5	500

520097 DIN 125 WASHERS (PA6.6)

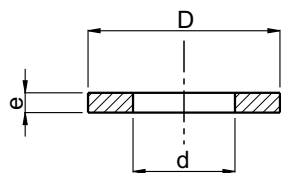


Made of Polyamide 6.6 in natural white color.

For other measurements, consult minimum quantities and units. / bag.

Code	For screw	d	D	e	Units/Bag
52009702200	M2	2,2	5	0,3	1000
52009702700	M2,5	2,7	6	0,5	1000
52009703200	M3	3,2	7	0,5	1000
52009703700	M3,5	3,7	8	0,5	1000
52009704300	M4	4,3	9	0,8	1000
52009705300	M5	5,3	10	1	1000
52009706400	M6	6,4	12	1,6	1000
52009708400	M8	8,4	16	1,6	1000
52009710500	M10	10,5	20	2	1000
52009713000	M12	13	24	2,5	500
52009715000	M14	15	30	3	1000
52009717000	M16	17	30	3	250
52009721000	M20	21	37	3	250

520093 DIN 125 WASHERS (PA6)

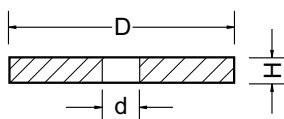


Made of Polyamide 6 in natural white color.

For other measurements, consult minimum quantities and units. / bag.

Code	For screw	d	D	e	Units/Bag
52009303200	M3	3,2	7	0,5	1000
52009304300	M4	4,3	9	0,8	1000
52009305300	M5	5,3	10	1	1000
52009306400	M6	6,4	12	1,6	1000
52009308400	M8	8,4	17	1,6	500
52009310500	M10	10,5	20	2	500
52009313000	M12	13	24	2,5	500
52009317000	M16	17	30	3	500

520073 DIN 9021 WASHERS



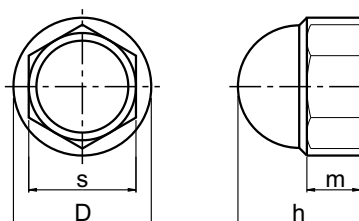
Material natural polyamide 6.6.
MOQ: Units/Bag.

Code	For screw	d	D	H	Units/Bag
52007300700	M3	3,2	9	0.8	1000
52007301600	M4	4,3	12	1	1000
52007302500	M5	5,3	15	1,2	1000
52007303400	M6	6,4	18	1,6	1000
52007303700	M7	7,4	22	2,0	1000
52007304200	M8	8,4	23,8	2	1000
52007304800	M10	10,5	30	2,5	1000
52007305700	M12	13	37	3	500
52007306300	M16	17	50	3	250
52007306800	M20	22	60	4	250
52007307000	M24	26	72	5	250

520070**BLACK DOME NUTS**

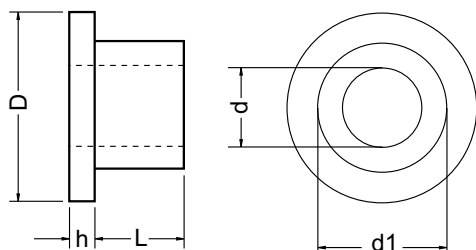
Made of black or white polyethylene.
For other measurements, consult
minimum quantities and units. / bag.

White Code	Black Code	For screw	s	D	m	h	Units/Bag
52007004001	52007004000	M4	7	10,7	6,3	9,4	200
52007005001	52007005000	M5	8	10,6	5,9	9,5	200
52007006001	52007006000	M6	10	12,9	6	13	500
52007008001	52007008000	M8	13	16,8	9	15	500
52007010001	52007010000	M10	17	21,3	9	19,5	250
52007012001	52007012000	M12	19	23,6	11	21,5	250
52007014001	52007014000	M14	21	27,5	13	25	250
52007016001	52007016000	M16	24	29,8	14	27	100
52007020001	52007020000	M20	29	37,6	19,2	36,2	100
-	52007024000	M24	34,5	43,9	20,2	39,3	100

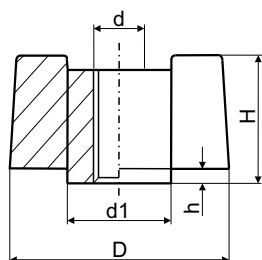
**520090****BUSHES**

Material natural polyamide 6.6.

Code	d	d1	D	h	L	Units/Bag
52009000014	3,1	3,6	5,8	0,4	1,2	1000
52009000019	3,1	4	6,2	1	7	1000
52009000018	3,1	4	6,2	1	6	1000
52009000042	4,1	6	8,2	1,5	5	1000
52009000047	4,2	4,9	10	1,3	1,7	1000
52009000051	4,2	6,3	12,7	3,2	11,1	1000
52009000091	5	9	12	2	2,9	1000
52009000072	5,2	6,9	15	1,5	2	1000
52009000105	6,4	9,5	16	1,6	4,8	1000
52009000125	8,1	10	14,2	2,5	4	1000
52009000126	8,1	10	14,2	2,5	8	1000
52009000127	8,1	10	14,2	2,5	10	1000
52009000153	10	12	16	2	4	1000
52009000156	10	14	20	2	8	1000
52009000184	12,1	17,7	23,9	2,6	13	1000
52009000185	12,2	13,8	25	2	2	1000
52009000263	12,5	14	17,5	1	8	1000
52009000264	16,2	17,8	32	3	6	1000
52009000240	20,1	26,7	31,9	3,1	20,8	500
52009000265	24,5	33	50	6	7,5	500

**520082****WING NUTS**

Material Polyamide 6.6
blanca RAL 9010.



Code	D	d	d1	H	h	Units/Bag
52008210004	25	M4	11	13	1.5	500
52008210005	25	M5	11	13	1.5	500
52008210006	25	M6	11	13	1.5	500

Keys - Key bars - Pins

PARALLEL KEYS



DIN 6885
Available in C45 Steel
and in stainless steel
AISI 304 and AISI 316

KEY BARS



DIN 6880
Available in C45 steel
and in stainless steel
AISI 304 and AISI 316

KEY KITS



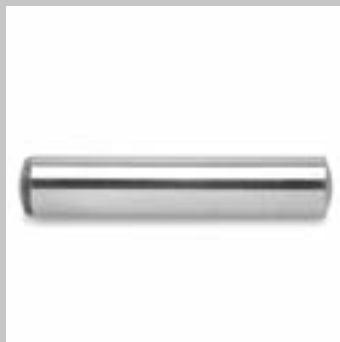
DIN 6885-A
Available in C45 steel
and in stainless steel
AISI 304

DOWEL PINS WITH INTERNAL THREAD



DIN 7979 / ISO 8735
Available in 58-62HRC
hardened steel
and stainless steel

GROUND DOWEL PINS



ISO 2338 / DIN 7
Available in steel
and in stainless steel

SHOULDER SCREWS



ISO 7379
Available in 12.9 quality
steel and 70Kg stainless
steel

Consult for more information about these products

Tube Connectors

Simple, fast assembly and variable compatibility

The components of the RV pipe connector system are made of high-quality aluminum alloys according to DIN 1725, whereby a high degree of stability is achieved despite their low weight. The natural corrosion resistance of the system components is further enhanced by the use of stainless steel fittings.

Simple quick assembly (or disassembly) and variable combinability of the individual system elements allows a variety of uses in a variety of areas, for example in mechanical and plant engineering as a safety railing or also in trade fair, vehicle and shop construction.

Grups



RV Tube connectors

ø30 mm
ø35 mm
ø40 mm
ø42.4 mm
ø48.3 mm
ø50 mm



RV-BR Tube connectors

ø40 mm



Tubes and Tubular endcap

ø30 – ø50 mm

Finishing options



Rough state
Code: 0
(Ex.: 1040 -0)



Barrel polished
Code: -1
(Ex.: 1040 -1)



High-gloss polished
Code: -1.1
(Ex.: 1040 -1.1)



Vibratory ground, dull finished and technically anodized
Code: -2
(Ex.: 1040 -2)

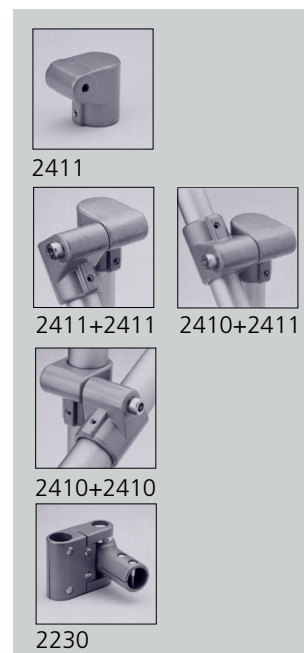
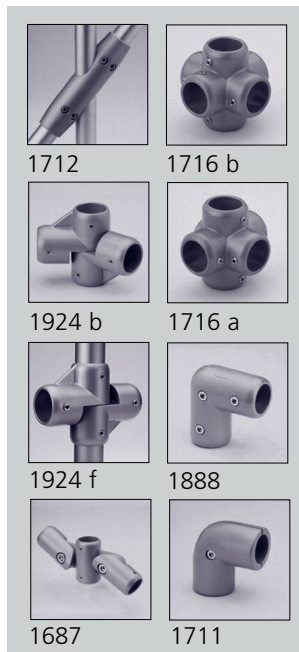


Polished and anodized
Code: -2.1
(Ex.: 1040 -2.1)



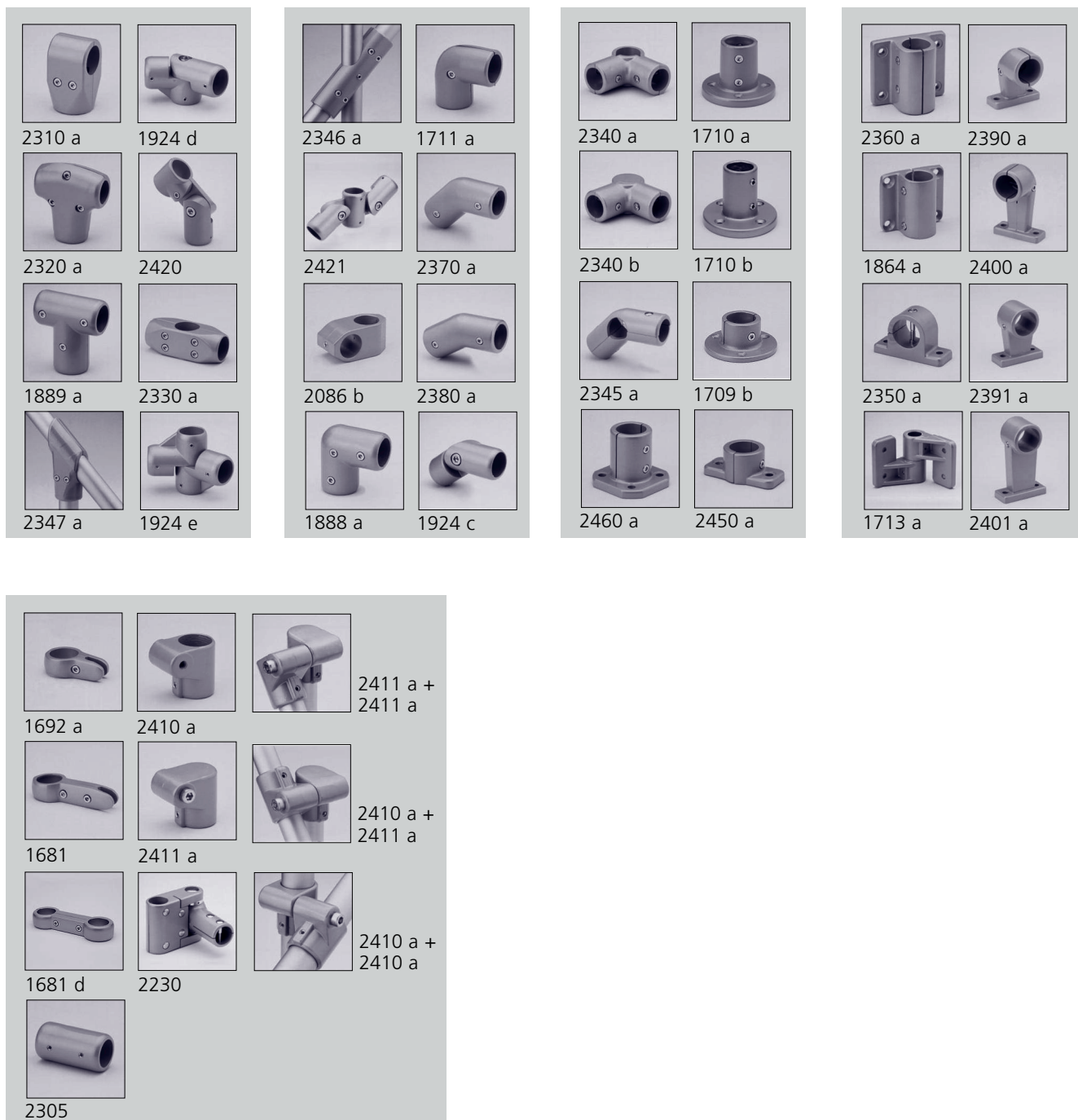
Powder-coatings
Code: -3-RAL...
(Ex.: 1040 -3-RAL 5005)

Tube connectors RV Ø 30mm



To know measurements and other details about these items
you can consult our website
www.tecnodin.es

Tube connectors RV Ø 35mm

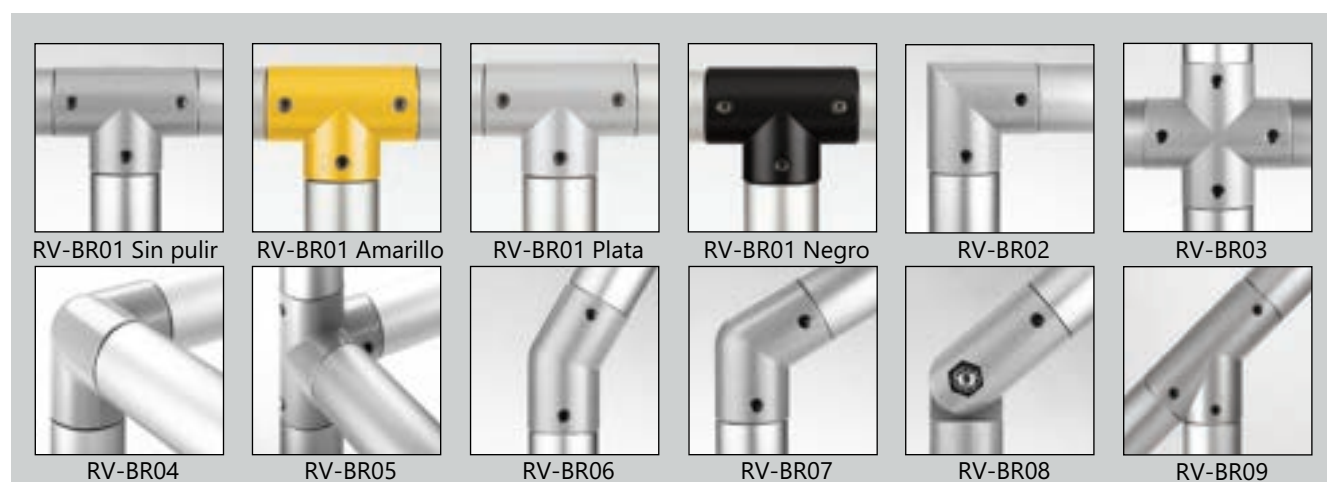


To know measurements and other details about these items
you can consult our website
www.tecnodin.es

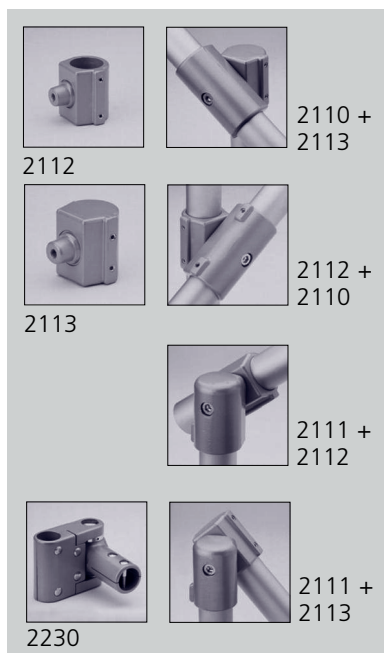
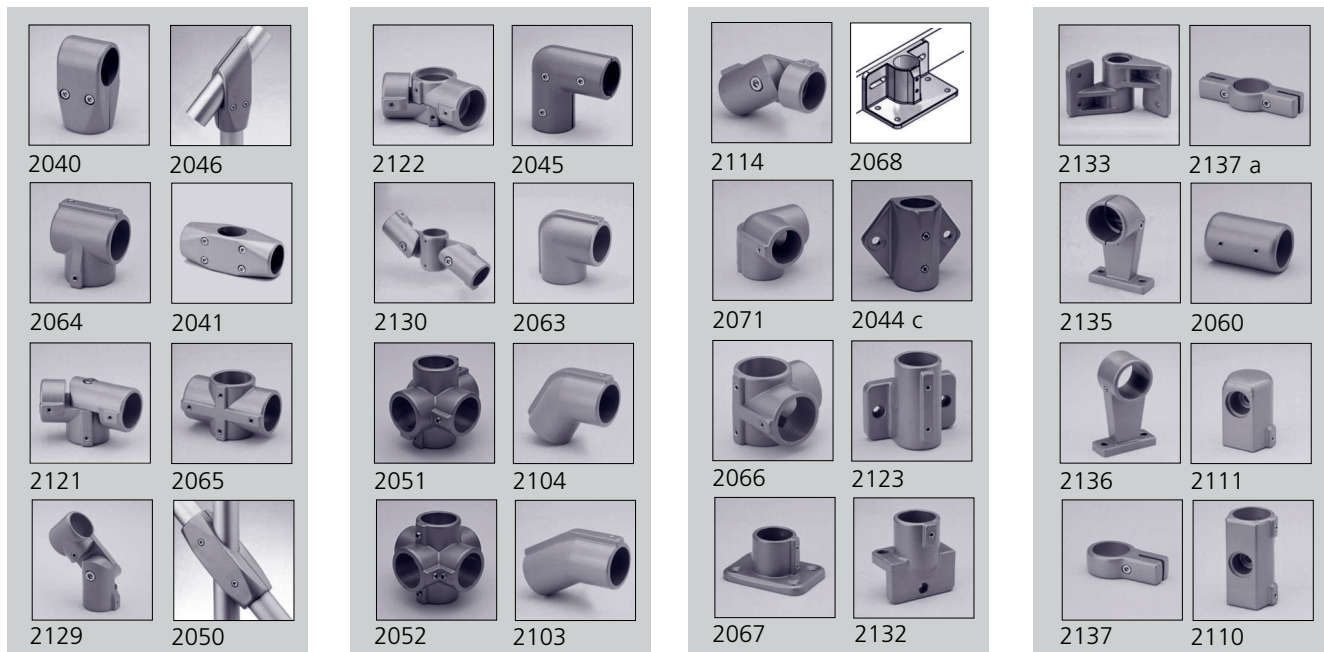
Tube connectors RV Ø 40mm



Tube connectors RV-BR Ø 40mm



Tube connectors RV Ø 42,4mm



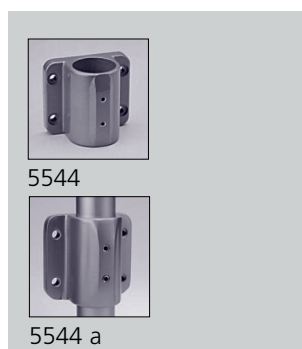
**To know measurements and other details about these items
you can consult our website
www.tecnodin.es**

Tube connectors RV Ø 48,3 / 50mm

Ø 48,3mm



Ø 50mm



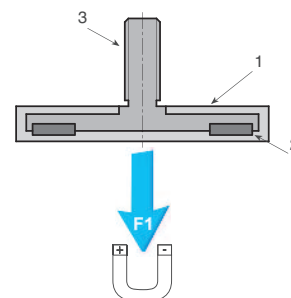
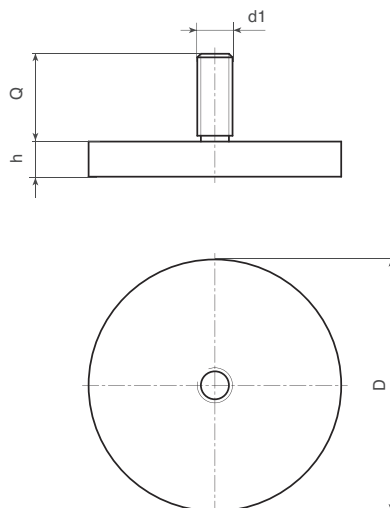
Endcaps



To know measurements and other details about these items
you can consult our website
www.tecnodin.es

47007301

COATED NEODYMIUM ROUND DISC MAGNET WITH THREADED STUD

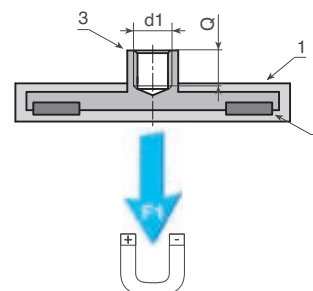
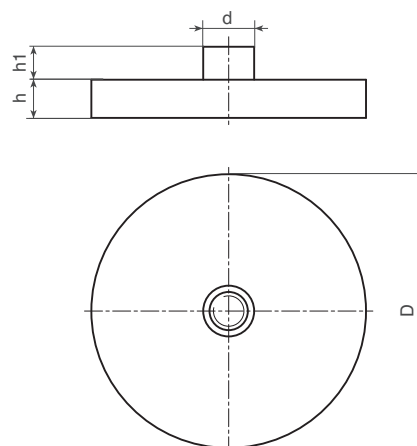


(1) Thermoplastic rubber TPE (75 Shore).
 (2) Flat neodymium magnet (NdFeB).
 (3) Turned galvanised steel base, with threaded stud (thread tolerance 6g).
 Color:
 Black (RAL 9011).
 White (RAL 9010).
 Working temperature between -20°C and +60°C.

Black Code	White Code	D	h	d1 6g	Q	P (g)	F1 (N)
47007301001	47007301101	12	7	M04	8	4,5	13
47007301002	47007301102	18	6	M04	6	7,5	37
47007301003	47007301103	22	6	M04	6,5	11	58
47007301004	47007301104	43	6	M06	15	32	100
47007301006	47007301106	66	8,5	M08	15	107	250
47007301007	47007301107	88	8,5	M08	15	193	550

47007302

COATED NEODYMIUM ROUND DISC MAGNET WITH THREADED HOLE

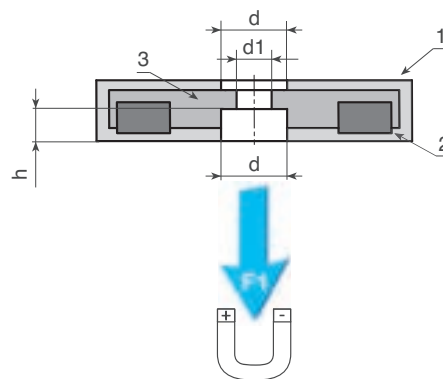


(1) Thermoplastic rubber TPE (75 Shore).
 (2) Flat neodymium magnet (NdFeB).
 (3) Turned galvanised steel base, with female threaded hole (thread tolerance 6H).
 Color:
 Black (RAL 9011).
 White (RAL 9010).
 Working temperature between -20°C and +60°C.

Black Code	White Code	D	d	h	h1	d1 6H	Q	P (g)	F1 (N)
47007302001	47007302101	12	8	7	7,5	M04	6	6	13
47007302002	47007302102	18	8	6	5,5	M04	5	9	37
47007302003	47007302103	22	8	6	5,5	M04	5	13	58
47007302004	47007302104	31	8	6	5,5	M04	5	22	89
47007302005	47007302105	43	8	6	4,5	M04	5	30	100
47007302006	47007302106	57	10	7,5	7	M05	6	82	200
47007302007	47007302107	66	10	8,5	6,5	M05	8	105	250
47007302008	47007302108	88	12	8,5	8,5	M08	11	192	550

47007303

COATED NEODYMIUM ROUND DISC MAGNET WITH SMOOTH THROUGH BORE

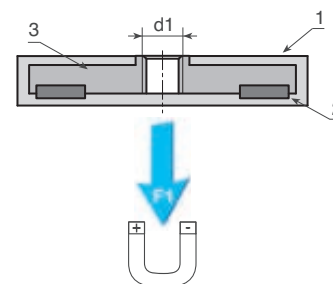


- (1) Thermoplastic rubber TPE (75 Shore).
 (2) Flat neodymium magnet (NdFeB).
 (3) Turned galvanised steel base, with female threaded hole (thread tolerance 6H).
 Color:
 Black (RAL 9011).
 White (RAL 9010).
 Working temperature between -20°C and +60°C.

Black Code	White Code	D	H	h	d	d1	P (g)	F1 (N)
47007303001	47007303101	18	6	3	8	3	5,5	25
47007303002	47007303102	22	6	3,5	8,2	4	8	38
47007303003	47007303103	31	6	3,5	9	6	20	89
47007303004	47007303104	57	7,5	3,3	25,3	8	77	200
47007303005	47007303105	66	8,5	3,2	22	5,5	100	250

47007304

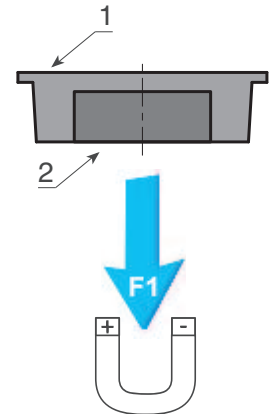
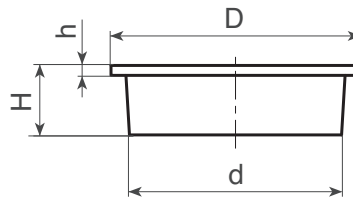
COATED NEODYMIUM ROUND DISC MAGNET WITH FEMALE THREADED HOLE



- (1) Thermoplastic rubber TPE (75 Shore).
 (2) Flat neodymium magnet (NdFeB).
 (3) Turned galvanised steel base, with female threaded hole (thread tolerance 6H).
 Color:
 Black (RAL 9011).
 White (RAL 9010).
 Working temperature between -20°C and +60°C.

Black Code	White Code	D	H	d1	P (g)	F1 (N)
47007304001	47007304101	18	6	M04	6	25
47007304002	47007304102	22	6	M04	9	38
47007304003	47007304103	31	6	M05	22	89
47007304004	47007304104	43	6	M04	30	100
47007304005	47007304105	57	7,5	M05	80	200
47007304006	47007304106	66	8,5	M06	105	250
47007304007	47007304107	88	8,5	M06	190	550

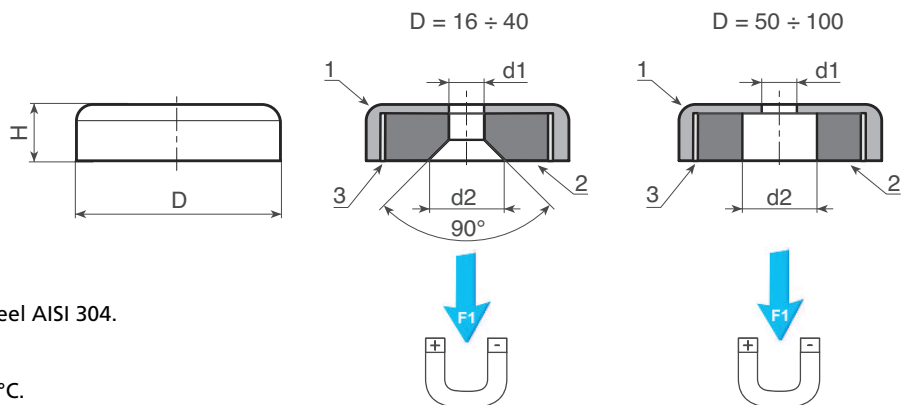
47007305 COATED NEODYMIUM ROUND FLAT MAGNET



(1) Polyamide-based plastic casing. Resistant to oils and greases.
 (2) Flat neodymium magnet (NdFeB).
 Color:
 Black (RAL 9011).
 Red (RAL 3000).
 White (RAL 9010).
 Working temperature between -20°C and +80°C.

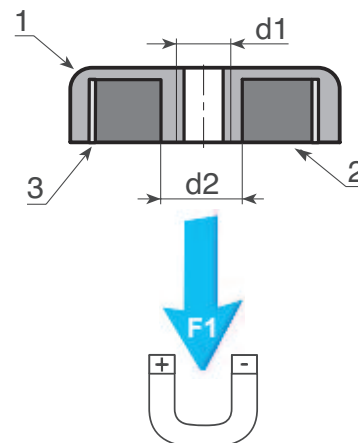
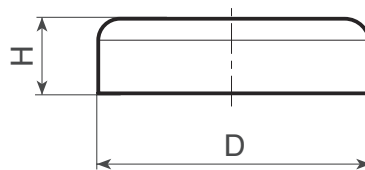
Black Code	Red Code	White Code	D	H	d	h	P (g)	F1 (N)
47007305001	47007305201	47007305101	18	8	14	2	3	10
47007305002	47007305202	47007305102	25	8	22	2	5	14
47007305003	47007305203	47007305103	30	7,5	28,5	2	8	27
47007305004	47007305204	47007305104	36	8,5	32,5	2	9	35
47007305005	47007305205	47007305105	40	7,8	36	2	10,5	35

47007310 FERRITE ROUND DISC MAGNET WITH STEEL SHELL AND SMOOTH THROUGH BORE



(1) Turned free-cutting steel shell or stainless steel AISI 304.
 (2) Flat ferrite magnet.
 (3) Plastic spacer.
 Working temperature between -20°C and +200°C.

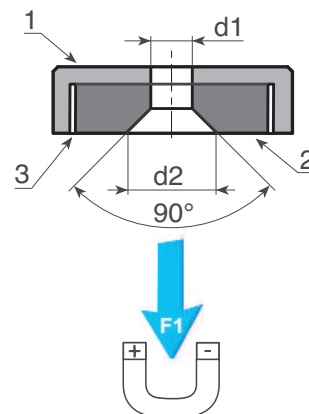
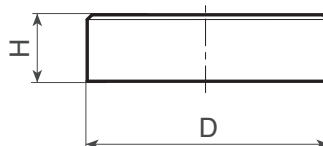
Code	SS Code	D	H+0,5/-0,2	d2	d1±0,2	P (g)	F1 (N)
47007310001	-	16±0,1	4,5	6,5+1	3,5	4	14
47007310002	47007310102	20±0,1	6	9,4+1	4,1	9	27
47007310003	47007310103	25±0,1	7	11,5+1	5,5	17	36
47007310004	47007310104	32±0,1	7	11,5+1	5,5	27	72
47007310005	47007310105	40±0,1	8	12,5+1	5,5	52	90
47007310006	47007310106	50+0,2/-0,1	10	22	8,5	85	180
47007310007	47007310107	63+0,3/-0,1	14	24	6,5	197	290
47007310008	-	80+0,3/-0,1	18	11,5	6,5	458	540
47007310009	-	100+0,5/-0,1	22	34	10,5	815	680

47007310 M
**FERRITE ROUND DISC MAGNET WITH STEEL SHELL
AND THREADED THROUGH HOLE**


- (1) Turned free-cutting steel shell.
(2) Flat ferrite magnet.
(3) Plastic spacer.

Working temperature between -20°C and +200°C.

Code	D	H+0,5/-0,2	d2	d1	P (g)	F1 (N)
47007310301	25±0,1	7	5,2	M04	18	36
47007310302	32±0,1	7	5,2	M04	29	75
47007310303	40+0,2/-0,1	8	5,2	M04	53	90
47007310304	50+0,2/-0,1	10	12	M06	94	170
47007310305	50+0,2/-0,1	10	12	M08	94	170
47007310306	63+0,3/-0,1	14	13	M08	206	290
47007310307	80+0,3/-0,1	18	14,5	M08	472	550
47007310308	80+0,3/-0,1	18	14,5	M10	466	550

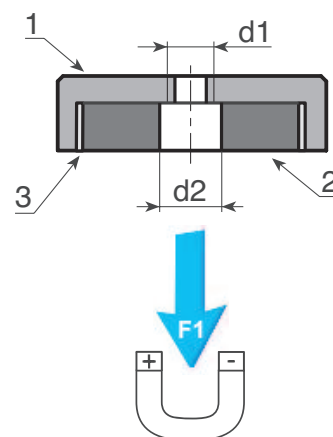
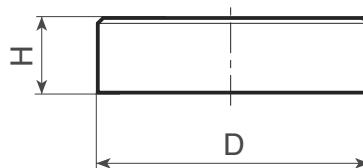
47007311
**NEODYMIUM ROUND DISC MAGNET WITH STEEL SHELL
AND SMOOTH THROUGH BORE**


- (1) Turned free-cutting steel shell.
(2) Flat neodymium magnet (NdFeB).
(3) Plastic spacer.

Working temperature between -20°C and +60°C.

Available with Samarium-Cobalt magnet (SmCo /-20°C a +280°C)
Code **47007312**.

Code	D±0,1	H±0,2	d2+1	d1±0,1	P (g)	F1 (N)
47007311001	10	4,5	5,2	2,6	2	19
47007311002	13	4,5	6,6	3,5	4	40
47007311003	16	4,5	6,6	3,5	6	75
47007311004	20	6	9,3	4,5	13	105
47007311005	25	7	9	4,5	24	160
47007311006	32	7	11	5,5	39	310
47007311007	40	8	10,3	5,5	73	500

47007311 M
NEODYMIUM ROUND DISC MAGNET WITH STEEL SHELL AND THREADED THROUGH HOLE


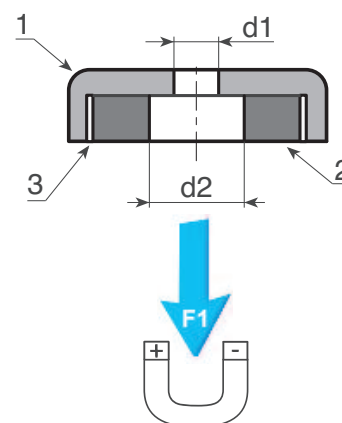
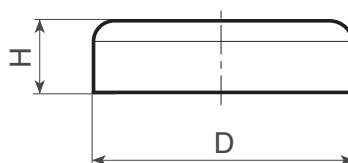
- (1) Turned free-cutting steel shell.
(2) Flat neodymium magnet (NdFeB).
(3) Plastic spacer.

Working temperature between -20°C and +80°C.

Code	D $\pm 0,1$	H $\pm 0,2$	d2	d1 $\pm 0,1$	P (g)	F1 (N)
47007311301	10	4,5	4,5	M03	2	19
47007311302	13	4,5	4,5	M03	4	40
47007311303	20	6	6	M04	13	105
47007311304	25	7	4,5	M04	24	160
47007311305	32	7	5,5	M05	40	330
47007311306	40	8	10,5	M05	74	500
47007311307	50	10	10,5	M08	140	800
47007311308	63	14	11,7	M10	315	1.100
47007311309	74,6	15	11,7	M10	479	1.750

47007312 PIN
SAMARIUM-COBALT ROUND DISC MAGNET WITH STAINLESS STEEL SHELL AND SMOOTH THROUGH BORE


INOX
Stainless
Steel



- (1) Turned stainless steel shell (AISI 304).
(2) Flat samarium-cobalt magnet (SmCo).
(3) Plastic spacer.

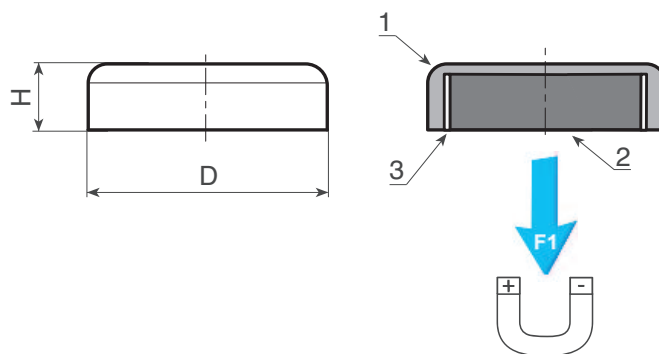
Working temperature between -20°C and +350°C.

Code	D $\pm 0,1$	H $\pm 0,2$	h	d2 $\pm 0,1$	d1 $\pm 0,1$	P (g)	F1 (N)
47007312101	20	6	3,5	8	4,5	13	60
47007312102	25	7	4	8	4,5	24	80
47007312103	32	7	4	11	5,5	39	200
47007312104	40	8	4	10,5	5,5	75	420

47007314 NEODYMIUM ROUND DISC MAGNET WITH STEEL SHELL



- (1) Turned free-cutting steel shell.
 (2) Flat neodymium magnet (NdFeB).
 (3) Plastic spacer.



Working temperature between -20°C and +80°C.

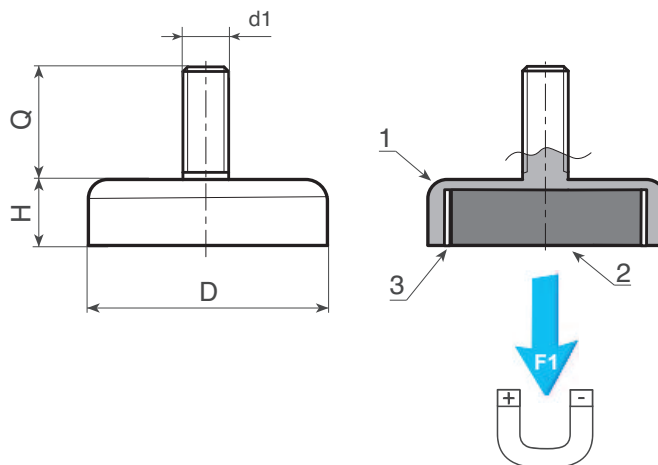
Available with Samarium-Cobalt magnet (SmCo /-20°C a +280°C) - Cód. **47007315** or with Ferrite magnet (-20°C a +200°C) - Cód. **47007313**.

Code	D $\pm 0,1$	H $\pm 0,2$	P (g)	F1 (N)
47007314001	6	4,5	1	5
47007314002	8	4,5	2	13
47007314003	10	4,5	2,5	25
47007314004	13	4,5	4	60
47007314005	16	4,5	6	95
47007314006	20	6	14	140
47007314007	25	7	25	200
47007314008	32	7	41	350

47007317 NEODYMIUM ROUND DISC MAGNET WITH GALVANISED STEEL SHELL AND THREADED STUD



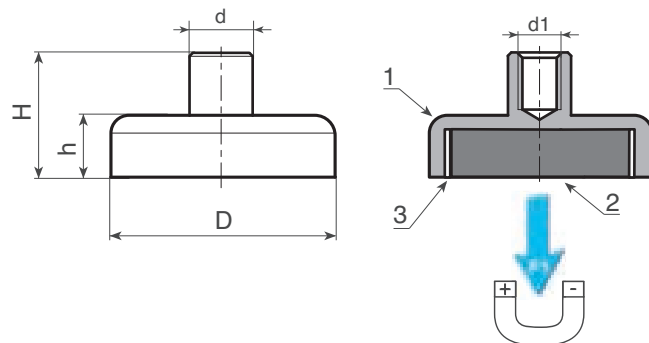
- (1) Turned free-cutting steel shell.
 (2) Flat neodymium magnet (NdFeB).
 (3) Plastic spacer.



Working temperature between -20°C and +80°C.

Available with Ferrite magnet (-20°C a +200°C) - Cód. **47007316**

Code	D $\pm 0,1$	H $\pm 0,2$	d1	Q $\pm 0,5$	P (g)	F1 (N)
47007317501	6	4,5	M03	7	1,3	5
47007317502	8	4,5	M04	8	2,3	13
47007317503	10	4,5	M03	7	2,5	25
47007317504	10	4,5	M04	8	3	25
47007317505	13	4,5	M05	8	5	60
47007317506	16	4,5	M06	8	8	95
47007317507	20	6	M06	10	15	140
47007317508	25	7	M06	10	27	200
47007317509	32	7	M06	10	42	350
47007317510	40	8	M08	12	80	670

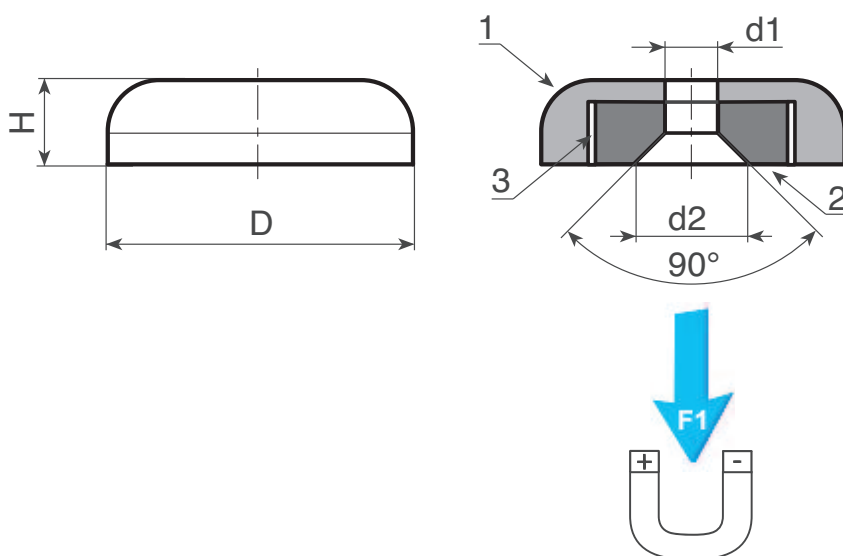
47007319**NEODYMIUM ROUND DISC MAGNET WITH GALVANISED STEEL SHELL AND FEMALE THREADED STUD**

- (1) Turned free-cutting steel shell.
 (2) Flat neodymium magnet (NdFeB).
 (3) Plastic spacer.

Working temperature between -20°C and $+80^{\circ}\text{C}$.

Available with Samarium-Cobalt magnet (SmCo -20°C a $+280^{\circ}\text{C}$) Cód. **47007320** or with Ferrite magnet (-20°C a $+200^{\circ}\text{C}$) - Cód. **47007318**.

Code	D	$h \pm 0,2$	H	$d \pm 0,2$	d1	P (g)	F1 (N)
47007319301	$6 \pm 0,1$	4,5	$11,5 + 0,3 / - 0,2$	6	M03	2	5
47007319302	$8 \pm 0,1$	4,5	$11,5 + 0,3 / - 0,2$	6	M03	3	13
47007319303	$10 \pm 0,1$	4,5	$11,5 + 0,3 / - 0,2$	6	M03	4	25
47007319304	$13 \pm 0,1$	4,5	$11,5 + 0,3 / - 0,2$	6	M03	5	60
47007319305	$16 \pm 0,1$	4,5	$11,5 + 0,3 / - 0,2$	6	M04	7	95
47007319306	$20 \pm 0,1$	6	$13 + 0,3 / - 0,2$	8	M04	16	140
47007319307	$25 \pm 0,1$	7	$14 + 0,5 / - 0,3$	8	M04	27	200
47007319308	$32 \pm 0,2$	7	$15 + 0,5 / - 0,3$	10	M05	45	350
47007319309	$40 \pm 0,2$	8	$18 + 0,5 / - 0,3$	10	M06	80	670

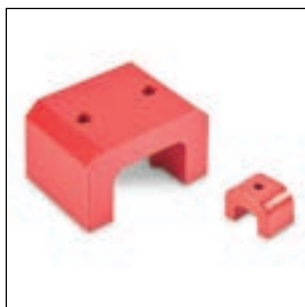
47007323**AINiCo FLAT ROUND DISC MAGNET WITH PAINTED STEEL SHELL AND SMOOTH THROUGH BORE**

- (1) Red painted standard steel shell.
 (2) Flat aluminium-nickel-cobalt magnet (AlNiCo).
 (3) Brass spacer.

Working temperature between -20°C and $+180^{\circ}\text{C}$.

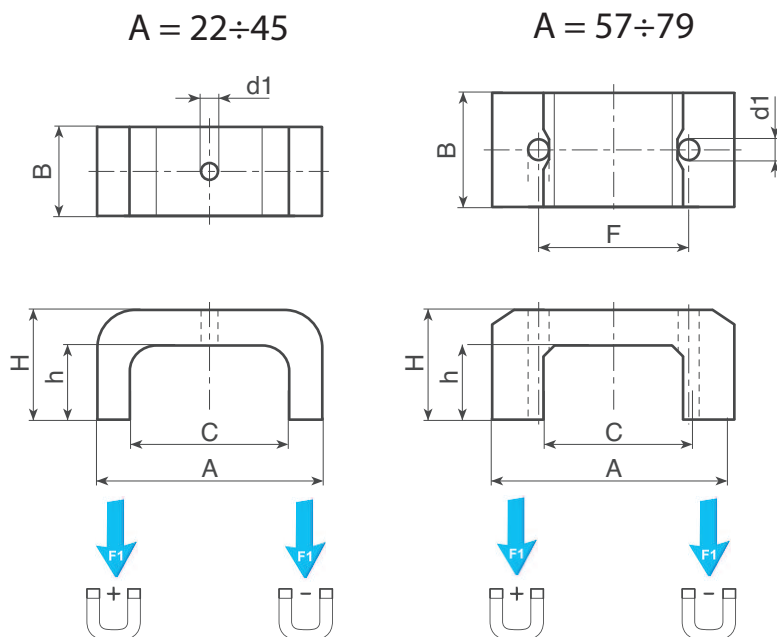
Code	$D \pm 1$	$H \pm 0,5$	d2	d1	P (g)	F1 (N)
47007323001	19,1	7,5	8,7	3,7	17	30
47007323002	28,6	8,5	10,5	4,8	43	40
47007323003	38,1	10,4	10,5	4,8	82	80

47007324 PAINTED RED ONE-PIECE AlNiCo BRIDGE MAGNET



Aluminium-nickel-cobalt magnet (AlNiCo).
Red color painted.

Working temperature between -20°C and +180°C.



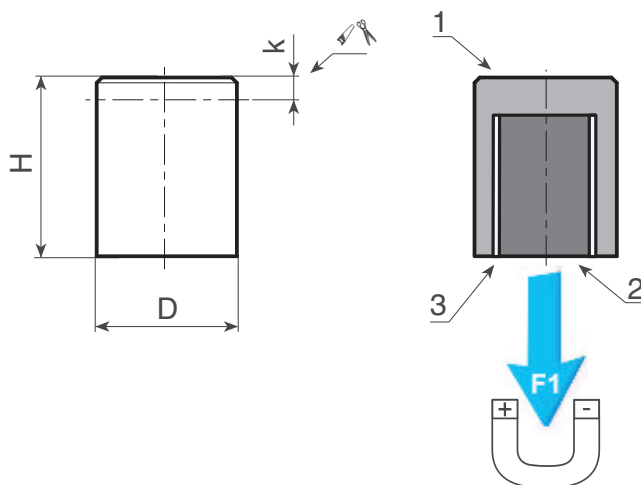
Code	A	B	H	C	F	h	d1	P (g)	F1 (N)
47007324001	22	25	17	8	-	9	7	64	30
47007324002	30	20	20	15	-	11	5	56	45
47007324003	39	25	25	19	-	14	4,7	140	90
47007324004	45	30	30	22	-	17	5,2	209	120
47007324005	57	44,5	35	27,8	35	23	8	500	180
47007324006	70	57	41	35	41	25	8	905	320
47007324007	79,6	82	54	38,5	47,6	36	9,5	1570	470

47007330 ALUMINIUM-NICKEL-COBALT CYLINDRICAL MAGNET WITH GALVANISED STEEL SHELL



- (1) Turned free-cutting steel shell.
(2) Aluminium-Nickel-Cobalt cylindrical magnet (AlNiCo).
(3) Brass spacer.

The magnet can be made shorter or machined to value k without sustaining damage.
Working temperature between -20°C and +450°C.



Code	D±0,1	H±0,2	k	P (g)	F1 (N)
47007330001	6	20	12	4,5	2
47007330002	8	20	11	7,5	4
47007330003	10	20	10	12	8,5
47007330004	13	20	8	19	12
47007330005	16	20	6	30	20
47007330006	20	25	5	58	40
47007330007	25	35	13	125	60
47007330008	32	40	9	220	160
47007330009	40	50	10	440	240
47007330010	50	60	10	813	400
47007330011	63	65	10	1306	660

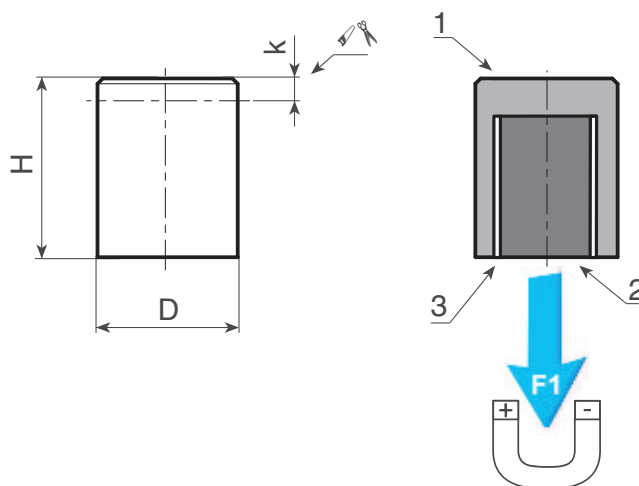
47007332 NEODYMIUM CYLINDRICAL MAGNET WITH GALVANISED STEEL SHELL



- (1) Turned free-cutting steel shell.
 (2) Neodymium cylindrical magnet (NdFeB).
 (3) Brass spacer.

The magnet can be made shorter or machined to value k without sustaining damage.

Working temperature between -20°C and $+80^{\circ}\text{C}$.



Code	$D \pm 0,1$	$H \pm 0,2$	k	P (g)	F1 (N)
47007332001	4	20	15	2	2,5
47007332002	5	20	15	3	4,5
47007332003	6	20	15	4,5	6
47007332004	8	20	15	8	12
47007332005	10	20	15	12	24
47007332006	13	20	15	21	60
47007332007	16	20	15	31	90
47007332008	20	25	18	61	135
47007332009	25	35	27	133	190
47007332010	32	40	32	249	340

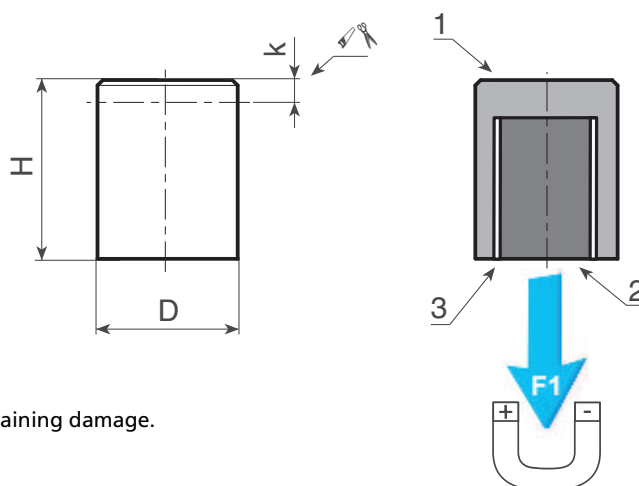
47007333 NEODYMIUM CYLINDRICAL MAGNET WITH GALVANISED STEEL SHELL WITH h6 TOLERANCE



- (1) Turned free-cutting steel shell with tolerance h6.
 (2) Neodymium cylindrical magnet (NdFeB).
 (3) Plastic spacer.

The magnet can be made shorter or machined to value k without sustaining damage.
 Working temperature between -20°C and $+80^{\circ}\text{C}$.

*Available with Samarium-Cobalt magnet (SmCo / -20°C a $+200^{\circ}\text{C}$) - Cod. **47007329** or
 Aluminium-Nickel-Cobalt magnet (AlNiCo / -20°C a $+450^{\circ}\text{C}$). - Cod. **47007331**



Code	Dh6	$H \pm 0,2$	k	P (g)	F1 (N)
47007333001	4	10	7	1	2,5
47007333002	5	10	6	1,5	4,5
47007333003	6	10	5	2	6
47007333004	8	12	7	5	12
47007333005	10	16	11	10	24
47007333006	13	18	13	18	60
47007333007	16	20	15	31	90
47007333008	20	25	18	61	135
47007333009	25	30	22	114	190
47007333010	32	35	27	217	340

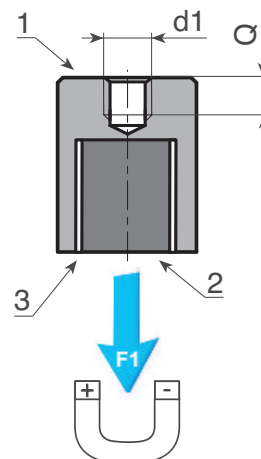
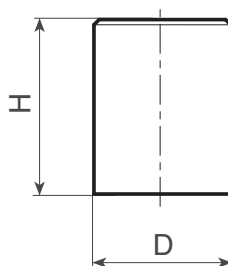
47007334

ALUMINIUM-NICKEL-COBALT CYLINDRICAL MAGNET WITH GALVANISED STEEL SHELL WITH FEMALE THREADED HOLE



- (1) Turned free-cutting steel shell.
- (2) Aluminium-Nickel-Cobalt cylindrical magnet (AlNiCo).
- (3) Brass spacer.

Working temperature between -20°C and +450°C.



Code	D $\pm$ 0,1	H $\pm$ 0,2	d1	Q	P (g)	F1 (N)
47007334301	6	20	M03	5	4	2
47007334302	8	20	M03	5	7,5	4
47007334303	10	20	M04	7	11	8,5
47007334304	13	20	M04	7	19	12
47007334305	16	20	M04	5	30	20
47007334306	20	25	M06	7	55	40
47007334307	25	35	M06	9	121	60
47007334308	32	40	M08	9	220	160
47007334309	40	50	M08	12	436	240
47007334310	50	60	M10	12	794	400
47007334311	63	65	M12	14	1274	660

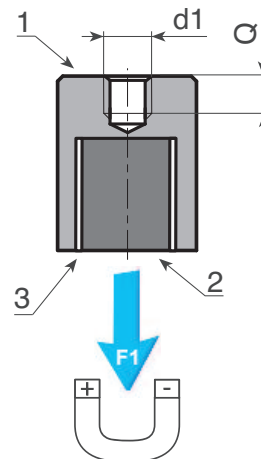
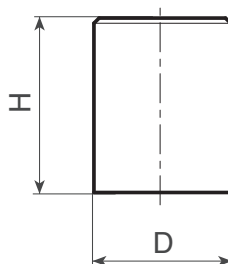
47007336

NEODYMIUM CYLINDRICAL MAGNET WITH GALVANISED STEEL SHELL WITH FEMALE THREADED HOLE



- (1) Turned free-cutting steel shell.
- (2) Neodymium cylindrical magnet (NdFeB).
- (3) Brass spacer.

Working temperature between -20°C and +80°C.

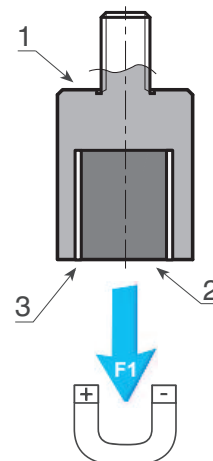
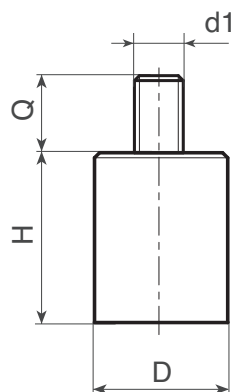


Code	D $\pm$ 0,1	H $\pm$ 0,2	d1	Q	P (g)	F1 (N)
47007336301	6	20	M03	6	4	6
47007336302	8	20	M03	5	7,5	12
47007336303	10	20	M04	7	11	24
47007336304	13	20	M04	7	20	60
47007336305	16	20	M04	7	30	90
47007336306	20	25	M06	9	58	135
47007336307	25	35	M06	9	131	190
47007336308	32	40	M08	12	243	340
47007336309	40	50	M08	12	480	700
47007336310	50	60	M10	12	900	1000
47007336311	63	65	M12	14	1560	1700

47007338**AlNiCo CYLINDRICAL MAGNET WITH GALVANISED STEEL SHELL WITH THREADED STUD**

- (1) Turned free-cutting steel shell with threaded stud (thread tolerance 6g).
 (2) Cylindrical Aluminium-Nickel-Cobalt magnet (AlNiCo).
 (3) Brass spacer.

Working temperature between -20°C and +450°C.



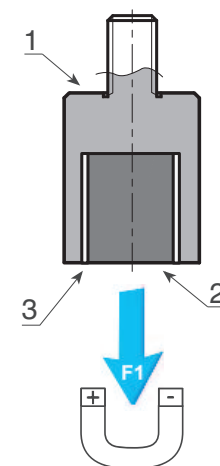
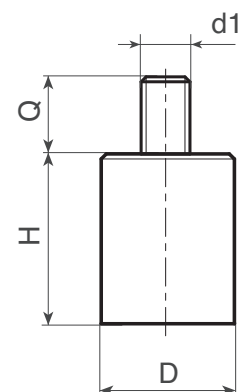
Code	D $\pm 0,1$	H $\pm 0,2$	d1	Q	q	F1 (N)
47007338501	6	20	M03	7	4,5	2
47007338502	8	20	M03	7	8	4
47007338503	10	20	M04	8	11,5	8,5
47007338504	13	20	M04	8	19,5	12
47007338505	16	20	M04	10	31	20
47007338506	20	25	M06	10	58	40
47007338507	25	35	M06	10	124	60
47007338508	32	40	M08	12	228	160
47007338510	50	60	M10	15	807	400
47007338511	63	65	M12	20	1293	660

47007340**NEODYMIUM CYLINDRICAL MAGNET WITH GALVANISED STEEL SHELL WITH THREADED STUD**

- (1) Turned free-cutting steel shell with threaded stud (thread tolerance 6g).
 (2) Cylindrical neodymium-iron-boron magnet (NdFeB).
 (3) Brass spacer.

Working temperature between -20°C and +80°C.

Available with Aluminium-Nickel-Cobalt magnet (AlNiCo / -20°C a +450°C). - Cod. **47007338**.



Code	D $\pm 0,1$	H $\pm 0,2$	d1	Q	P (g)	F1 (N)
47007340501	6	20	M03	7	4	6
47007340502	8	20	M03	7	7,5	12
47007340503	10	20	M04	8	11	24
47007340504	13	20	M04	8	20	60
47007340505	16	20	M04	10	30	90
47007340506	20	25	M06	10	58	135
47007340508	32	40	M08	12	243	340
47007340510	50	60	M10	15	915	1000
47007340511	63	65	M12	20	1579	1700

Representatives

PAÍS VASCO

Zamakola Kalea, 6

48003 BILBAO - BIZKAIA (SPAIN)

Phone: 93 212 75 08 - Mobile: 600 762 418

E-mail: tecnodin@tecnodin.es / dperez@tecnodin.es

MADRID

C/Ciudad de Frías, 24-32, Nave 65

28021 MADRID (SPAIN)

Phone: 91 679 33 95 - Fax: 91 187 71 38

E-mail: tecnodinmadrid@tecnodin.es

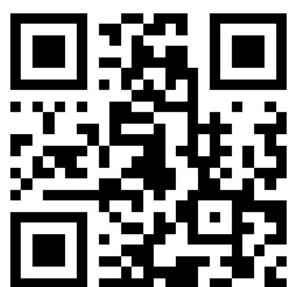
VALENCIA

P.I.Moncada III - C/Fornets,5 - Nave 5

46113 MONCADA - VALENCIA (SPAIN)

Phone: 96 365 32 33 - Fax: 96 365 23 65

E-mail: tecnodinvalencia@tecnodin.es



TECNODIN SL

CALLE MERCURI 4 - 08940 CORNELLA DE LLOBREGAT - BARCELONA (SPAIN)

PHONE : +34 932 127 508 / FAX: +34 934 185 600

E-MAIL: TECNODIN@TECNODIN.ES

WEB: WWW.TECNODIN.ES