HPC

Mechanical components
by mail order

1/5
2025















Mechanical components







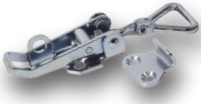












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stainless steel



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Flanged drill bushing p.602

Hygienic®



Hexagonal headed bolt with collar p.610



Hygienic®

Cap nut p.613

Hygienic®



Clamping lever p.614

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Hygienic®



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Hygienic®

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Box of assorted spring pins p.634



Box set of Nitrile O rings p.638





Box set of self tapping inserts p.652

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• Conseils personnalisés de l'équipe commerciale et technique du lundi au vendredi, de 8h à 12h20 et de 13h40 à 18h **+33(0)4 37 496 496.**

• Fourniture à l'unité, petite et moyenne série de pièces : **Sur mesure selon plan / Hors catalogue.**

• Règlement par virement bancaire, carte bancaire ou PayPal.

LIVRAISON RAPIDE

Livraison **24/48h*** - Frais de port **GRATUIT** dès **100€** d'achat*.

*Services soumis à conditions - Livraison en France métropolitaine

INFORMATIONS PRATIQUES

27 chemin des Peupliers
Bât N
69570 Dardilly
Lyon • France

cial2@hpceurope.com
+33(0)4 37 496 496

Engrenages HPC SARL
au capital de 76 224€ SIRET :
38291190700048 • Code APE 4669B
Numéro de TVA : FR 41 382 911 907

IL NOSTRO TEAM AL TUO SERVIZIO

ORDINE FACILE

• Consigli personalizzati del nostro team commerciale e tecnico dal lunedì al venerdì, dalle 8.30 alle 13.00 e dalle 14.00 alle 17.30 allo **+(39) 011.760.95.05**

• Fornitura di componenti all'unità, piccole e medie serie: **/ Su misura a disegno / Non standard.**

• Pagamento con bonifico bancario, carta di credito o PayPal.

CONSEGNA

Spedizione **GRATUITA** a partire da **100€** di acquisto*.
Articoli di lunghezza inferiore a un metro. Eccetto Sicilia, Sardegna e isole minori. *Servizi soggetti a condizioni.

INFORMAZIONI PRATICHE

Ufficio di rappresentanza in Italia
C.so Vittorio Emanuele II N. 71
10128 Torino
Italia

Info2@ctmeca.com
+(39) 011.760.95.05

Engrenages HPC SARL
capital 76 224 Euros SIRET :
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P.IVA : FR 41 382 911 907

OUR TEAM IS AT YOUR SERVICE

EASY TO ORDER

• Personalized advice offered by our sales and technical team from Monday to Friday 08:00 to 12:20 and 13:40 to 18:00 - **telephone +33(0)4 37 496 496.**

• Parts supplied individually and in small and medium series : **custom made according to plan / Non standard.**

• Payment by bank transfer, credit card, PayPal.

RAPID DELIVERY

24/48h hour delivery* - **free of charge** for orders over **100€***.
*Service subject to conditions - mainland France only

USEFUL INFORMATION

27 chemin des Peupliers
Bât N
69570 Dardilly
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Engrenages HPC SARL
au capital de 76 224€ SIRET :
38291190700048 • Code APE 4669B
VAT Numbers : FR 41 382 911 907

INDEX ICONS

Internal bore
- Modifiable
- Non-modifiable

Load
- Axial load
- Radial load
- Heavy duty
- Max load 1 tonne

Delivery time
- 48h
- 3weeks
- In hours or weeks

Method of fabrication
- Moulded
- Machined

Material
- Aci Steel
- Sta Stainless steel
- Alu Aluminium
- Bra Brass
- Brz Bronze
- Nyl Nylon
- Cop Copper
- Pla Plastic
- Del Delrin
- Pk Peek
- Cas Cast iron

Resistant to
- Low temperatures
- High temperatures
- Corrosion
- Shock

Special HPC
- Custom-made
- Stock In stock
- inch In imperial

Angles
- 45°
- 90°
- 17°45

Compatibility
- Robotic industry
- Food industry

Maintenance
- Maintenance free
- No lubrication

Applicable
- Industrial
- Manual

Standards
- DIN DIN
- ISO ISO

Origin
- Japan
- Switzerland

Quality
- 1
- ★★★★ from 1 to 8

Others
- Bi-directional
- Precision
- DUO Duo
- Bearings
- Light
- No fixing
- Size XS Miniature size
- € Eco Low cost range
- Modulable
- High speed of rotation
- Easy assembly

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CLAMPING PIN



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CLAMPING PIN



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BALL PIN SOCKET



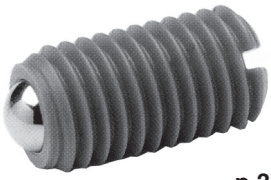
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RETAINING CABLE FOR BALL PIN



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SPRING PLUNGER WITH SLOTTED HEAD



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SPRING OPERATED PLUNGER



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POSITIONING AND INDEXING

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INDEX BOLT



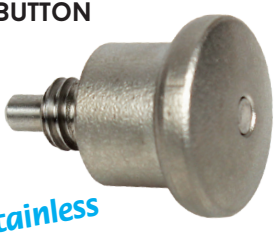
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INDEX BOLT WITH T HANDLE



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MINIATURE INDEXING BUTTON



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Buying guide

Clamping pin



Référence	AFA	BABS303	BABS	BABSS	BAB	BAB	BABV	BABTSS
Type	Fastening pin with ring	compact	compact	classic	classic	adjustable	Lockable	T-handle
Materials (axis)	Chromed steel	stainless steel 303	Hardened 630 Stainless steel	303 Stainless steel	Hardened 630 Stainless steel	Hardened 630 Stainless steel	303 Stainless steel	303 Stainless steel
Diameter (mm)	6 to 8	5 to 20	5 to 20	5 to 16	5 to 16	5 to 16	8 to 16	5 to 12
Length (mm)	15 to 50	10 to 120	10 to 120	10 to 80	10 to 80	0-10 to 70-80	20 to 80	10 to 80
Shear strength (kN)	22 to 28	14 to 244	24 to 403	14 to 155	24 to 257	24 to 257	38 to 153	24 to 87
Advantages	first price (unsecured locking)	compactness	compactness, increased resistance	ergonomic	ergonomic, increased resistance	adjustable locking length	prevents unintentional unlocking of the device	good grip
Quality	☆	☆☆	☆☆☆	☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆
Price	€	€€	€€€	€€	€€€	€€€	€€	€€
Pages	1 p.500	1 p.12	1 p.14	1 p.16	1 p.18	1 p.20	1 p.26	1 p.22

							
BAB$_T$	**BAB$_{PSS}$**	**BAB$_{PASS}$**	**BAB$_A$**	**BAB$_{AM}$**	**BAB$_{FC}$ BABfo**	**BAB$_M$**	**CDR**
T-handle	with protected button	with ring handle	lifting eye for smooth hole	lifting eye for threaded hole	flange receptacle	threaded receptacle	cable
Hardened 630 Stainless steel	stainless steel 301	Hardened 630 Stainless steel	Hardened steel	Hardened steel	stainless steel 303	stainless steel 303	stainless steel
5 to 12	5 to 16	5 to 16	10 to 16	M10 to M16	5 to 16	5 to 20	-
10 to 80	10 to 80	10 to 100	15 to 75	14 to 17	-	-	150 to 300
24 to 144	15 to 153	24 to 257	-	-	-	-	-
good grip, increased resistance	protected against unintentional operation	key ring for easy hanging	quick-fit lifting eye quick release	quick-fit lifting eye quick release	use for thin sheets	for full mass mounting in the ground	secures against loss
☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆
€€€	€€	€€€	€€€	€€€	€€	€€	€€
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Clamping pin, 303 stainless steel

BABS303 — Compact

- **Self locking**
- Materials:
  Shaft: Stainless steel 303
  Spring: Stainless steel
- Working temp: max 150°C



Lower cost material

Advantages

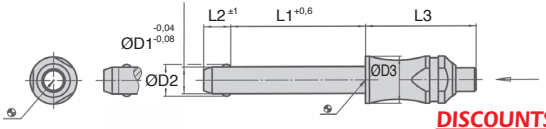
- Press to unlock
- Quick and easy to assemble, block, adjust change and stop
- Simply and quickly to released when performing repetitive operations
- Corrosion resistant
- Compact size with ergonomically designed handle

Options

- BABs Ball pin manufactured from hardened stainless steel (630) offers increased double shear strength

Accessory

- **CDR/S** retaining cable **(tome 1 p.38)**



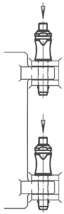
DISCOUNTS

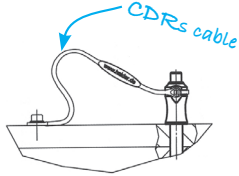
Qty	1+	6+	10+
Disc.	List	-5%	On request

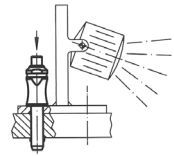
Part number	ØD1	L1	ØD2	ØD3	L2	L3	For bore H11	Double shear strenght (kN)	Weight (g)	Stock*	Price each 1 to 5
BAB5-10/S303	5	10	5,5	10	6,0	26,2	5	14	10	-	22,64 €
BAB5-15/S303	5	15	5,5	10	6,0	26,2	5	14	11	-	22,66 €
BAB5-20/S303	5	20	5,5	10	6,0	26,2	5	14	12	-	22,66 €
BAB5-25/S303	5	25	5,5	10	6,0	26,2	5	14	13	✔	22,66 €
BAB5-30/S303	5	30	5,5	10	6,0	26,2	5	14	13	✔	24,10 €
BAB6-10/S303	6	10	7,0	10	7,0	26,2	6	21	11	-	22,79 €
BAB6-15/S303	6	15	7,0	10	7,0	26,2	6	21	12	-	22,79 €
BAB6-20/S303	6	20	7,0	10	7,0	26,2	6	21	13	-	22,79 €
BAB6-25/S303	6	25	7,0	10	7,0	26,2	6	21	14	-	22,79 €
BAB6-30/S303	6	30	7,0	10	7,0	26,2	6	21	15	✔	25,50 €
BAB6-35/S303	6	35	7,0	10	7,0	26,2	6	21	16	✔	25,50 €
BAB6-40/S303	6	40	7,0	10	7,0	26,2	6	21	17	-	25,50 €
BAB6-45/S303	6	45	7,0	10	7,0	26,2	6	21	18	✔	25,50 €
BAB6-50/S303	6	50	7,0	10	7,0	26,2	6	21	19	✔	25,50 €

*Depending on availability - Dimensions in mm

BABS303







DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-5%	On request

Part number	ØD1	L1	ØD2	ØD3	L2	L3	For bore H11	Double shear strenght (kN)	Weight (g)	Stock*	Price each 1 to 5
BAB8-20/S303	8	20	9,6	14	8,2	33,1	8	38	33	✔	24,58 €
BAB8-25/S303	8	25	9,6	14	8,2	33,1	8	38	34	-	24,58 €
BAB8-30/S303	8	30	9,6	14	8,2	33,1	8	38	36	✔	27,63 €
BAB8-35/S303	8	35	9,6	14	8,2	33,1	8	38	38	-	27,63 €
BAB8-40/S303	8	40	9,6	14	8,2	33,1	8	38	40	✔	27,63 €
BAB8-45/S303	8	45	9,6	14	8,2	33,1	8	38	42	-	27,63 €
BAB8-50/S303	8	50	9,6	14	8,2	33,1	8	38	44	✔	27,63 €
BAB10-20/S303	10	20	12,0	14	9,6	33,1	10	60	39	✔	37,53 €
BAB10-25/S303	10	25	12,0	14	9,6	33,1	10	60	42	-	37,53 €
BAB10-30/S303	10	30	12,0	14	9,6	33,1	10	60	45	-	39,61 €
BAB10-35/S303	10	35	12,0	14	9,6	33,1	10	60	48	-	39,61 €
BAB10-40/S303	10	40	12,0	14	9,6	33,1	10	60	51	-	39,61 €
BAB10-45/S303	10	45	12,0	14	9,6	33,1	10	60	54	-	39,61 €
BAB10-50/S303	10	50	12,0	14	9,6	33,1	10	60	57	-	39,61 €
BAB10-60/S303	10	60	12,0	14	9,6	33,1	10	60	63	✔	41,56 €
BAB12-25/S303	12	25	14,5	20	10,6	39,5	12	87	84	✔	38,31 €
BAB12-30/S303	12	30	14,5	20	10,6	39,5	12	87	88	-	40,15 €
BAB12-35/S303	12	35	14,5	20	10,6	39,5	12	87	92	-	40,15 €
BAB12-40/S303	12	40	14,5	20	10,6	39,5	12	87	96	-	40,15 €
BAB12-45/S303	12	45	14,5	20	10,6	39,5	12	87	101	-	40,15 €
BAB12-50/S303	12	50	14,5	20	10,6	39,5	12	87	105	-	40,15 €
BAB12-60/S303	12	60	14,5	20	10,6	39,5	12	87	113	-	42,11 €
BAB12-70/S303	12	70	14,5	20	10,6	39,5	12	87	122	-	42,11 €
BAB12-80/S303	12	80	14,5	20	10,6	39,5	12	87	130	-	43,78 €
BAB16-30/S303	16	30	19,0	20	14,0	39,5	16	155	120	-	68,47 €
BAB16-35/S303	16	35	19,0	20	14,0	39,5	16	155	127	-	68,47 €
BAB16-40/S303	16	40	19,0	20	14,0	39,5	16	155	135	-	68,47 €
BAB16-45/S303	16	45	19,0	20	14,0	39,5	16	155	143	-	68,47 €
BAB16-50/S303	16	50	19,0	20	14,0	39,5	16	155	150	-	68,47 €
BAB16-60/S303	16	60	19,0	20	14,0	39,5	16	155	166	-	73,80 €
BAB16-70/S303	16	70	19,0	20	14,0	39,5	16	155	181	-	73,80 €
BAB16-80/S303	16	80	19,0	20	14,0	39,5	16	155	196	-	78,37 €
BAB20-60/S303	20	60	25,0	28	20,5	50,1	20	244	322	-	138,65 €
BAB20-80/S303	20	80	25,0	28	20,5	50,1	20	244	370	-	144,25 €
BAB20-100/S303	20	100	25,0	28	20,5	50,1	20	244	414	-	151,30 €
BAB20-120/S303	20	120	25,0	28	20,5	50,1	20	244	466	-	157,04 €

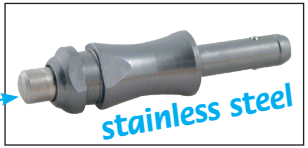
*Depending on availability - Dimensions in mm

Stainless steel clamping pin

BABs

Compact

- **Auto-blocking**
- Material:
  Pin: Hardened stainless steel (630) with resistant finish
  Spring: stainless steel
- Maximum working temperature: 250°C



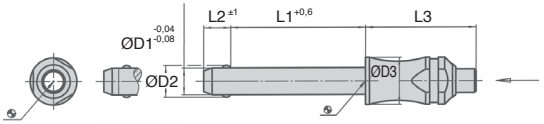
Press to unlock

Advantages

- Released by simple push action. For locking pieces in places easily and quickly
- Quick release mechanism for repeated operations
- Hard wearing treated pin resists wear (Stainless steel 1.4542)
- Works under heavy load conditions
- Corrosion resistant
- Compact size with ergonomically designed handle

Accessory

- **CDR/S** *retaining cable* **(tome 1 p.38)**

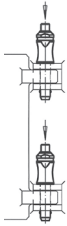


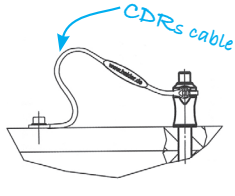
DISCOUNTS

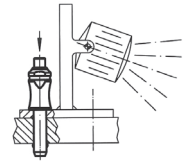
Qty	1+	6+	10+
Disc.	List	-5%	On request

Part number	ØD1	L1	ØD2	ØD3	L2	L3	For bore H11	Double shear strenght (kN)	Weight (g)	Stock*	Price each 1 to 5
BAB5-10/S	5	10	5,5	10	6,0	26,2	5	24	15	✔	35,98 €
BAB5-15/S	5	15	5,5	10	6,0	26,2	5	24	16	-	35,98 €
BAB5-20/S	5	20	5,5	10	6,0	26,2	5	24	17	-	35,98 €
BAB5-25/S	5	25	5,5	10	6,0	26,2	5	24	18	-	35,98 €
BAB5-30/S	5	30	5,5	10	6,0	26,2	5	24	19	✔	38,07 €
BAB6-10/S	6	10	7,0	10	7,0	26,2	6	35	17	-	36,32 €
BAB6-15/S	6	15	7,0	10	7,0	26,2	6	35	18	-	36,32 €
BAB6-20/S	6	20	7,0	10	7,0	26,2	6	35	19	-	36,32 €
BAB6-25/S	6	25	7,0	10	7,0	26,2	6	35	20	✔	36,32 €
BAB6-30/S	6	30	7,0	10	7,0	26,2	6	35	21	-	40,33 €
BAB6-35/S	6	35	7,0	10	7,0	26,2	6	35	22	-	40,33 €
BAB6-40/S	6	40	7,0	10	7,0	26,2	6	35	23	-	40,33 €
BAB6-45/S	6	45	7,0	10	7,0	26,2	6	35	24	-	40,33 €
BAB6-50/S	6	50	7,0	10	7,0	26,2	6	35	25	-	40,33 €

**Depending on availability - Dimensions in mm*







DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-5%	On request

Part number	ØD1	L1	ØD2	ØD3	L2	L3	For bore H11	Double shear strenght (kN)	Weight (g)	Stock*	Price each 1 to 5
BAB8-20/S	8	20	9,6	14	8,2	33,1	8	63	23	-	38,92 €
BAB8-25/S	8	25	9,6	14	8,2	33,1	8	63	25	-	38,92 €
BAB8-30/S	8	30	9,6	14	8,2	33,1	8	63	27	-	43,72 €
BAB8-35/S	8	35	9,6	14	8,2	33,1	8	63	29	-	43,72 €
BAB8-40/S	8	40	9,6	14	8,2	33,1	8	63	30	-	43,72 €
BAB8-45/S	8	45	9,6	14	8,2	33,1	8	63	32	-	43,72 €
BAB8-50/S	8	50	9,6	14	8,2	33,1	8	63	34	-	43,72 €
BAB10-20/S	10	20	12,0	14	9,6	33,1	10	100	35	-	59,71 €
BAB10-25/S	10	25	12,0	14	9,6	33,1	10	100	37	-	59,71 €
BAB10-30/S	10	30	12,0	14	9,6	33,1	10	100	40	-	62,49 €
BAB10-35/S	10	35	12,0	14	9,6	33,1	10	100	43	-	62,49 €
BAB10-40/S	10	40	12,0	14	9,6	33,1	10	100	46	-	62,49 €
BAB10-45/S	10	45	12,0	14	9,6	33,1	10	100	49	-	62,49 €
BAB10-50/S	10	50	12,0	14	9,6	33,1	10	100	52	-	62,49 €
BAB10-60/S	10	60	12,0	14	9,6	33,1	10	100	56	-	65,87 €
BAB12-25/S	12	25	14,5	20	10,6	39,5	12	144	51	-	60,77 €
BAB12-30/S	12	30	14,5	20	10,6	39,5	12	144	55	-	63,43 €
BAB12-35/S	12	35	14,5	20	10,6	39,5	12	144	59	-	63,43 €
BAB12-40/S	12	40	14,5	20	10,6	39,5	12	144	64	-	63,43 €
BAB12-45/S	12	45	14,5	20	10,6	39,5	12	144	68	-	63,43 €
BAB12-50/S	12	50	14,5	20	10,6	39,5	12	144	72	-	63,43 €
BAB12-60/S	12	60	14,5	20	10,6	39,5	12	144	80	-	66,69 €
BAB12-70/S	12	70	14,5	20	10,6	39,5	12	144	89	-	66,69 €
BAB12-80/S	12	80	14,5	20	10,6	39,5	12	144	98	-	69,73 €
BAB16-30/S	16	30	19,0	20	14,0	39,5	16	257	138	-	108,59 €
BAB16-35/S	16	35	19,0	20	14,0	39,5	16	257	147	-	108,59 €
BAB16-40/S	16	40	19,0	20	14,0	39,5	16	257	156	-	108,59 €
BAB16-45/S	16	45	19,0	20	14,0	39,5	16	257	165	-	108,59 €
BAB16-50/S	16	50	19,0	20	14,0	39,5	16	257	175	-	108,59 €
BAB16-60/S	16	60	19,0	20	14,0	39,5	16	257	193	-	117,01 €
BAB16-70/S	16	70	19,0	20	14,0	39,5	16	257	212	-	117,01 €
BAB16-80/S	16	80	19,0	20	14,0	39,5	16	257	233	-	124,05 €
BAB20-60/S	20	60	25,0	28	20,5	50,1	20	403	338	-	247,52 €
BAB20-80/S	20	80	25,0	28	20,5	50,1	20	403	388	-	254,54 €
BAB20-100/S	20	100	25,0	28	20,5	50,1	20	403	438	-	269,00 €
BAB20-120/S	20	120	25,0	28	20,5	50,1	20	403	488	-	279,69 €

*Depending on availability - Dimensions in mm

Clamping pin, 303 stainless steel

BABss

Fast, simple locking

- **Self locking**
- Materials:
  Body: Stainless steel 303
  Spring: Stainless steel
  Handle: PA6 plastic
- Working temp: -30°to 80°C



stainless steel (303)

Lower cost material

Advantages

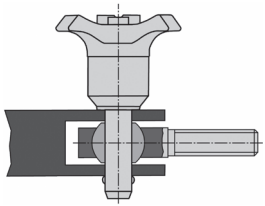
- Press to unlock, Quick to insert, block, change and stop
- Simply and easily released for performing repetitive operations
- Corrosion resistant
- Support extreme loads
- Ergonomic handle
- Handle designed to avoid accidental unlocking

Options

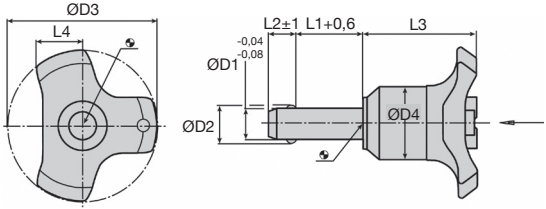
- Possibility of different colour combinations
- BAB Ball pin manufactured from hardened stainless steel (630) offers increased double shear strength

Accessory

- **CDR** retaining cable **(tome 1 p.39)**



Typical application



DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-5%	On request

Part number	ØD1	L1	ØD2	ØD3	ØD4	L2	L3	L4	For bore (H11)	Double shear resistance (kN**)	Stock*	Price each 1 to 5
BAB5-10/SS	5	10	5,5	33,2	14,5	6,0	26,7	10,8	5	14	✔	27,76 €
BAB5-15/SS	5	15	5,5	33,2	14,5	6,0	26,7	10,8	5	14	-	27,76 €
BAB5-20/SS	5	20	5,5	33,2	14,5	6,0	26,7	10,8	5	14	✔	27,76 €
BAB5-25/SS	5	25	5,5	33,2	14,5	6,0	26,7	10,8	5	14	-	27,76 €
BAB5-30/SS	5	30	5,5	33,2	14,5	6,0	26,7	10,8	5	14	-	29,29 €
BAB6-10/SS	6	10	7,0	33,2	14,5	7,0	26,7	10,8	6	21	✔	27,88 €
BAB6-15/SS	6	15	7,0	33,2	14,5	7,0	26,7	10,8	6	21	✔	27,88 €
BAB6-20/SS	6	20	7,0	33,2	14,5	7,0	26,7	10,8	6	21	-	27,88 €
BAB6-25/SS	6	25	7,0	33,2	14,5	7,0	26,7	10,8	6	21	✔	27,88 €
BAB6-30/SS	6	30	7,0	33,2	14,5	7,0	26,7	10,8	6	21	✔	29,29 €
BAB6-35/SS	6	35	7,0	33,2	14,5	7,0	26,7	10,8	6	21	✔	29,29 €
BAB6-40/SS	6	40	7,0	33,2	14,5	7,0	26,7	10,8	6	21	-	29,29 €
BAB6-45/SS	6	45	7,0	33,2	14,5	7,0	26,7	10,8	6	21	✔	29,29 €
BAB6-50/SS	6	50	7,0	33,2	14,5	7,0	26,7	10,8	6	21	✔	29,29 €
BAB8-20/SS	8	20	9,6	39,2	19,3	8,2	33,3	13,4	8	38	-	30,07 €
BAB8-25/SS	8	25	9,6	39,2	19,3	8,2	33,3	13,4	8	38	✔	30,07 €
BAB8-30/SS	8	30	9,6	39,2	19,3	8,2	33,3	13,4	8	38	✔	32,42 €
BAB8-35/SS	8	35	9,6	39,2	19,3	8,2	33,3	13,4	8	38	✔	32,42 €
BAB8-40/SS	8	40	9,6	39,2	19,3	8,2	33,3	13,4	8	38	✔	32,42 €
BAB8-45/SS	8	45	9,6	39,2	19,3	8,2	33,3	13,4	8	38	-	32,42 €
BAB8-50/SS	8	50	9,6	39,2	19,3	8,2	33,3	13,4	8	38	✔	32,42 €
BAB10-20/SS	10	20	12,0	39,2	19,3	9,6	33,3	13,4	10	60	-	47,02 €
BAB10-25/SS	10	25	12,0	39,2	19,3	9,6	33,3	13,4	10	60	-	47,02 €
BAB10-30/SS	10	30	12,0	39,2	19,3	9,6	33,3	13,4	10	60	-	49,29 €
BAB10-35/SS	10	35	12,0	39,2	19,3	9,6	33,3	13,4	10	60	-	49,29 €
BAB10-40/SS	10	40	12,0	39,2	19,3	9,6	33,3	13,4	10	60	-	49,29 €
BAB10-45/SS	10	45	12,0	39,2	19,3	9,6	33,3	13,4	10	60	✔	49,29 €
BAB10-50/SS	10	50	12,0	39,2	19,3	9,6	33,3	13,4	10	60	✔	49,29 €
BAB10-60/SS	10	60	12,0	39,2	19,3	9,6	33,3	13,4	10	60	✔	51,87 €
BAB12-25/SS	12	25	14,5	47,6	26,3	10,6	39,7	16,7	12	87	-	47,84 €
BAB12-30/SS	12	30	14,5	47,6	26,3	10,6	39,7	16,7	12	87	-	50,08 €
BAB12-35/SS	12	35	14,5	47,6	26,3	10,6	39,7	16,7	12	87	-	50,08 €
BAB12-40/SS	12	40	14,5	47,6	26,3	10,6	39,7	16,7	12	87	-	50,08 €
BAB12-45/SS	12	45	14,5	47,6	26,3	10,6	39,7	16,7	12	87	-	50,08 €
BAB12-50/SS	12	50	14,5	47,6	26,3	10,6	39,7	16,7	12	87	-	50,08 €
BAB12-60/SS	12	60	14,5	47,6	26,3	10,6	39,7	16,7	12	87	-	52,68 €
BAB12-70/SS	12	70	14,5	47,6	26,3	10,6	39,7	16,7	12	87	✔	52,68 €
BAB12-80/SS	12	80	14,5	47,6	26,3	10,6	39,7	16,7	12	87	-	54,88 €
BAB16-30/SS	16	30	19,0	47,6	26,3	14,0	39,7	16,7	16	155	-	85,66 €
BAB16-35/SS	16	35	19,0	47,6	26,3	14,0	39,7	16,7	16	155	-	85,66 €
BAB16-40/SS	16	40	19,0	47,6	26,3	14,0	39,7	16,7	16	155	-	85,66 €
BAB16-45/SS	16	45	19,0	47,6	26,3	14,0	39,7	16,7	16	155	-	85,66 €
BAB16-50/SS	16	50	19,0	47,6	26,3	14,0	39,7	16,7	16	155	-	85,66 €
BAB16-60/SS	16	60	19,0	47,6	26,3	14,0	39,7	16,7	16	155	✔	92,33 €
BAB16-70/SS	16	70	19,0	47,6	26,3	14,0	39,7	16,7	16	155	-	92,33 €
BAB16-80/SS	16	80	19,0	47,6	26,3	14,0	39,7	16,7	16	155	-	97,83 €

*Depending on availability - Dimensions in mm

**Resistance acc DIN 50141

Clamping pin, hardened stainless

BAB

Fast, simple locking

- **Self locking**
- Materials:
  Pin: Hardened stainless steel 1.4542
  Spring: stainless steel
  Handle: plastic (PA6)
- Working temperature: -30°C to 80°C



Advantages

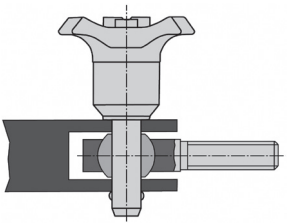
- Released by simple push action. For clamping pieces in place easily and quickly
- Quick release mechanism for repeated operations
- Hard wearing treated pin resists wear (Stainless steel 1.4542)
- Works under heavy load conditions
- Corrosion resistant
- Ergonomically designed handle avoids unintentional release

Options

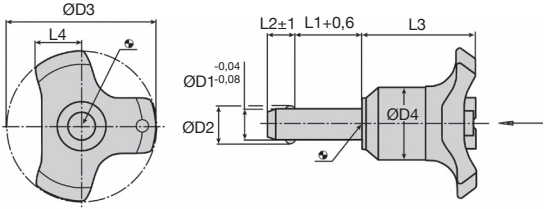
- Many alternative colour combinations available

Accessory

- **CDR** retaining cable **(tome 1 p.39)**



Typical application



DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-5%	On request

Part number	ØD1	L1	ØD2	ØD3	ØD4	L2	L3	L4	For bore (H11)	Double shear resistance (kN**)	Stock*	Price each 1 to 5
BAB5-10	5	10	5,5	33,2	14,5	6,0	26,7	10,8	5	24	✔	52,50 €
BAB5-15	5	15	5,5	33,2	14,5	6,0	26,7	10,8	5	24	-	52,50 €
BAB5-20	5	20	5,5	33,2	14,5	6,0	26,7	10,8	5	24	-	52,50 €
BAB5-25	5	25	5,5	33,2	14,5	6,0	26,7	10,8	5	24	-	52,50 €
BAB5-30	5	30	5,5	33,2	14,5	6,0	26,7	10,8	5	24	-	55,57 €
BAB6-10	6	10	7,0	33,2	14,5	7,0	26,7	10,8	6	35	-	52,50 €
BAB6-15	6	15	7,0	33,2	14,5	7,0	26,7	10,8	6	35	-	52,50 €
BAB6-20	6	20	7,0	33,2	14,5	7,0	26,7	10,8	6	35	-	52,50 €
BAB6-25	6	25	7,0	33,2	14,5	7,0	26,7	10,8	6	35	-	52,50 €
BAB6-30	6	30	7,0	33,2	14,5	7,0	26,7	10,8	6	35	-	55,57 €
BAB6-35	6	35	7,0	33,2	14,5	7,0	26,7	10,8	6	35	-	55,57 €
BAB6-40	6	40	7,0	33,2	14,5	7,0	26,7	10,8	6	35	-	55,57 €
BAB6-45	6	45	7,0	33,2	14,5	7,0	26,7	10,8	6	35	-	55,57 €
BAB6-50	6	50	7,0	33,2	14,5	7,0	26,7	10,8	6	35	✔	55,57 €
BAB8-20	8	20	9,6	39,2	19,3	8,2	33,3	10,8	8	63	-	50,80 €
BAB8-25	8	25	9,6	39,2	19,3	8,2	33,3	10,8	8	63	-	50,80 €
BAB8-30	8	30	9,6	39,2	19,3	8,2	33,3	10,8	8	63	✔	54,33 €
BAB8-35	8	35	9,6	39,2	19,3	8,2	33,3	10,8	8	63	-	54,33 €
BAB8-40	8	40	9,6	39,2	19,3	8,2	33,3	10,8	8	63	✔	54,33 €
BAB8-45	8	45	9,6	39,2	19,3	8,2	33,3	10,8	8	63	✔	54,33 €
BAB8-50	8	50	9,6	39,2	19,3	8,2	33,3	10,8	8	63	-	54,33 €
BAB10-20	10	20	12,0	39,2	19,3	9,6	33,3	13,4	10	100	-	88,88 €
BAB10-25	10	25	12,0	39,2	19,3	9,6	33,3	13,4	10	100	-	88,88 €
BAB10-30	10	30	12,0	39,2	19,3	9,6	33,3	13,4	10	100	✔	93,54 €
BAB10-35	10	35	12,0	39,2	19,3	9,6	33,3	13,4	10	100	-	93,54 €
BAB10-40	10	40	12,0	39,2	19,3	9,6	33,3	13,4	10	100	-	93,54 €
BAB10-45	10	45	12,0	39,2	19,3	9,6	33,3	13,4	10	100	-	93,54 €
BAB10-50	10	50	12,0	39,2	19,3	9,6	33,3	13,4	10	100	-	93,54 €
BAB10-60	10	60	12,0	39,2	19,3	9,6	33,3	13,4	10	100	-	98,05 €
BAB12-25	12	25	14,5	47,6	26,3	10,6	39,7	16,7	12	144	-	90,81 €
BAB12-30	12	30	14,5	47,6	26,3	10,6	39,7	16,7	12	144	-	95,32 €
BAB12-35	12	35	14,5	47,6	26,3	10,6	39,7	16,7	12	144	-	95,32 €
BAB12-40	12	40	14,5	47,6	26,3	10,6	39,7	16,7	12	144	✔	95,32 €
BAB12-45	12	45	14,5	47,6	26,3	10,6	39,7	16,7	12	144	-	95,32 €
BAB12-50	12	50	14,5	47,6	26,3	10,6	39,7	16,7	12	144	-	95,32 €
BAB12-60	12	60	14,5	47,6	26,3	10,6	39,7	16,7	12	144	-	99,62 €
BAB12-70	12	70	14,5	47,6	26,3	10,6	39,7	16,7	12	144	-	99,62 €
BAB12-80	12	80	14,5	47,6	26,3	10,6	39,7	16,7	12	144	-	104,31 €
BAB16-30	16	30	19,0	47,6	26,3	14,0	39,7	16,7	16	257	-	162,55 €
BAB16-35	16	35	19,0	47,6	26,3	14,0	39,7	16,7	16	257	-	162,55 €
BAB16-40	16	40	19,0	47,6	26,3	14,0	39,7	16,7	16	257	-	162,55 €
BAB16-45	16	45	19,0	47,6	26,3	14,0	39,7	16,7	16	257	-	162,55 €
BAB16-50	16	50	19,0	47,6	26,3	14,0	39,7	16,7	16	257	-	162,55 €
BAB16-60	16	60	19,0	47,6	26,3	14,0	39,7	16,7	16	257	-	174,76 €
BAB16-70	16	70	19,0	47,6	26,3	14,0	39,7	16,7	16	257	-	174,76 €
BAB16-80	16	80	19,0	47,6	26,3	14,0	39,7	16,7	16	257	-	185,81 €

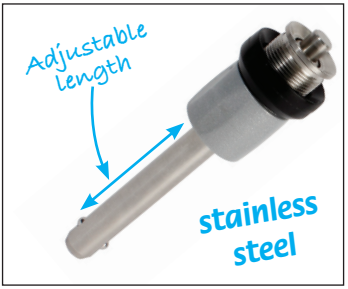
*Depending on availability - Dimensions in mm

**Resistance acc DIN 50141

Adjustable clamping pin hardened stainless steel

BAB — Locking length adjustable

- **Self locking**
- For joining two pieces or to ensure a solid contact against a corresponding support
- Manually adjustable locking length by use of a nut/counter-nut
- Material :
  Shaft: hardened steel 1.4542
  Spring: stainless steel
  Adjusting nut: Silver thermoplastic
  Counter nut: Black thermoplastic
  Working temp range: -30°C to 80°C
- Compatible with H11 bores

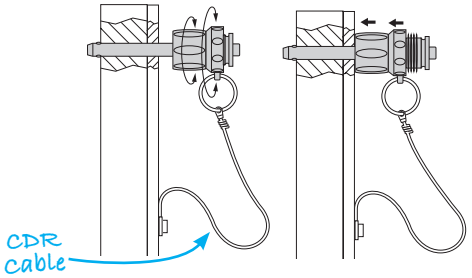


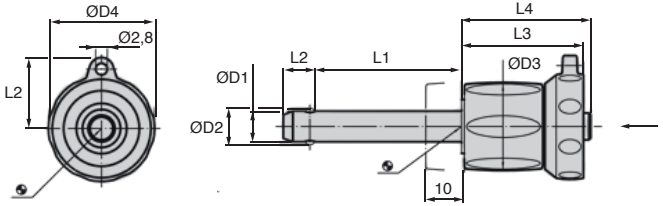
Advantages

- Corrosion free
- Wide working load
- Excellent wear resistance
- Avoid washers or shims

Accessory

- **CDR** retaining cable *(tome 1 p.39)*





DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-5%	On request

Part number	ØD1	L1	ØD2	ØD3	ØD4	L2	L3	L4	L5	Double shear resistance (kN min)*	Weight (g)	Price each 1 to 5
BAB5-0-10	5	0-10	5,5	17,6	23,6	6,0	25,7	26,2	15,9	24	24	57,41 €
BAB5-5-15	5	0-15	5,5	17,6	23,6	6,0	25,7	26,2	15,9	24	25	57,41 €
BAB5-10-20	5	10-20	5,5	17,6	23,6	6,0	25,7	26,2	15,9	24	26	57,41 €
BAB6-15-25	5	15-25	5,5	17,6	23,6	6,0	25,7	26,2	15,9	24	27	57,65 €
BAB5-20-30	5	20-30	5,5	17,6	23,6	6,0	25,7	26,2	15,9	24	27	59,17 €
BAB6-0-10	6	0-10	7,0	17,6	23,6	7,0	25,7	26,2	15,9	35	25	57,65 €
BAB6-5-15	6	5-15	7,0	17,6	23,6	7,0	25,7	26,2	15,9	35	26	57,65 €
BAB6-10-20	6	10-20	7,0	17,6	23,6	7,0	25,7	26,2	15,9	35	27	57,65 €
BAB6-15-25	6	15-25	7,0	17,6	23,6	7,0	25,7	26,2	15,9	35	28	57,65 €
BAB6-20-30	6	20-30	7,0	17,6	23,6	7,0	25,7	26,2	15,9	35	29	60,93 €
BAB6-25-35	6	25-35	7,0	17,6	23,6	7,0	25,7	26,2	15,9	35	30	60,93 €
BAB6-30-40	6	30-40	7,0	17,6	23,6	7,0	25,7	26,2	15,9	35	31	60,93 €
BAB6-35-45	6	35-45	7,0	17,6	23,6	7,0	25,7	26,2	15,9	35	32	60,93 €
BAB6-40-50	6	40-50	7,0	17,6	23,6	7,0	25,7	26,2	15,9	63	33	60,93 €
BAB8-10-20	8	10-20	9,6	23,0	27,6	8,2	31,2	33,1	18,0	63	57	61,17 €
BAB8-15-25	8	15-25	9,6	23,0	27,6	8,2	31,2	33,1	18,0	63	58	61,17 €
BAB8-20-30	8	20-30	9,6	23,0	27,6	8,2	31,2	33,1	18,0	63	60	64,84 €
BAB8-25-35	8	25-35	9,6	23,0	27,6	8,2	31,2	33,1	18,0	63	62	64,84 €
BAB8-30-40	8	30-40	9,6	23,0	27,6	8,2	31,2	33,1	18,0	63	64	64,84 €
BAB8-35-45	8	35-45	9,6	23,0	27,6	8,2	31,2	33,1	18,0	63	66	64,84 €
BAB8-40-50	8	40-50	9,6	23,0	27,6	8,2	31,2	33,1	18,0	63	68	64,84 €
BAB10-10-20	10	10-20	12,0	23,0	27,6	9,6	31,2	33,1	18,0	100	63	77,50 €
BAB10-15-25	10	15-25	12,0	23,0	27,6	9,6	31,2	33,1	18,0	100	66	77,50 €
BAB10-20-30	10	20-30	12,0	23,0	27,6	9,6	31,2	33,1	18,0	100	69	79,81 €
BAB10-25-35	10	25-35	12,0	23,0	27,6	9,6	31,2	33,1	18,0	100	72	79,81 €
BAB10-30-40	10	30-40	12,0	23,0	27,6	9,6	31,2	33,1	18,0	100	75	79,81 €
BAB10-35-45	10	35-45	12,0	23,0	27,6	9,6	31,2	33,1	18,0	100	78	79,81 €
BAB10-40-50	10	40-50	12,0	23,0	27,6	9,6	31,2	33,1	18,0	100	81	79,81 €
BAB10-50-60	10	50-60	12,0	23,0	27,6	9,6	31,2	33,1	18,0	100	87	82,40 €
BAB12-15-25	12	15-25	14,5	29,0	34,6	10,6	36,7	39,5	21,8	144	123	81,14 €
BAB12-20-30	12	20-30	14,5	29,0	34,6	10,6	36,7	39,5	21,8	144	127	83,21 €
BAB12-25-35	12	25-35	14,5	29,0	34,6	10,6	36,7	39,5	21,8	144	131	83,21 €
BAB12-30-40	12	30-40	14,5	29,0	34,6	10,6	36,7	39,5	21,8	144	135	83,21 €
BAB12-35-45	12	35-45	14,5	29,0	34,6	10,6	36,7	39,5	21,8	144	140	83,21 €
BAB12-40-50	12	40-50	14,5	29,0	34,6	10,6	36,7	39,5	21,8	144	144	83,21 €
BAB12-50-60	12	50-60	14,5	29,0	34,6	10,6	36,7	39,5	21,8	144	152	85,79 €
BAB12-60-70	12	60-70	14,5	29,0	34,6	10,6	36,7	39,5	21,8	144	161	85,79 €
BAB12-70-80	12	70-80	14,5	29,0	34,6	10,6	36,7	39,5	21,8	144	169	88,25 €
BAB16-20-30	16	20-30	19,0	29,0	34,6	14,0	36,7	39,5	21,8	257	159	118,81 €
BAB16-25-35	16	25-35	19,0	29,0	34,6	14,0	36,7	39,7	21,8	257	166	118,81 €
BAB16-30-40	16	30-40	19,0	29,0	34,6	14,0	36,7	39,5	21,8	257	174	118,81 €
BAB16-35-45	16	35-45	19,0	29,0	34,6	14,0	36,7	39,5	21,8	257	182	118,81 €
BAB16-40-50	16	40-50	19,0	29,0	34,6	14,0	36,7	39,5	21,8	257	189	118,81 €
BAB16-50-60	16	50-60	19,0	29,0	34,6	14,0	36,7	39,5	21,8	257	205	125,43 €
BAB16-60-70	16	60-70	19,0	29,0	34,6	14,0	36,7	39,5	21,8	257	220	125,43 €
BAB16-70-80	16	70-80	19,0	29,0	34,6	14,0	36,7	39,5	21,8	257	235	131,00 €

Dimensions in mm - Shear resistance acc DIN 50141

Clamping pin, 303 stainless steel

BABTSS — With T handle

- **Self locking**
- Materials:
  Shaft: Stainless steel 303
  Spring: Stainless steel
  Handle: Black aluminium RAL9005
  Button: Black stainless steel
- Working temp: -30°to 150°C



Lower cost material

Advantages

- Press to unlock
- Quick and easy to assemble, block, adjust, change and stop
- Simply and quickly released when performing repetitive operations
- Corrosion resistant
- Resists high loads
- Ergonomic handle
- Handle designed to avoid accidental release

Info

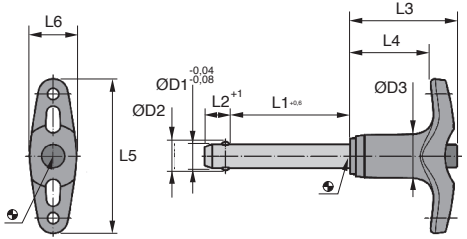
- Shear resistance acc DIN 50141

Options

- BABT Ball pin manufactured from hardened stainless steel (630) offers increased double shear strength

Accessory

- **CDR** retaining cable **(tome 1 p.39)**



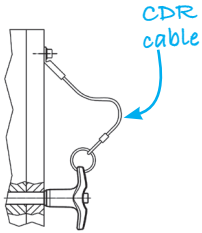
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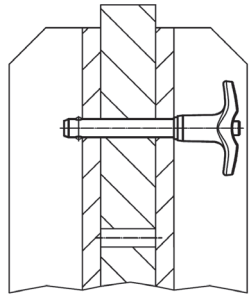
DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-5%	On request

Part number	ØD1	L1	ØD2	ØD3	L2	L3	L4	L5	L6	Corresponding bore H11	Double shear resistance kN min.	Weight (g)	Price each 1 to 5
BAB5-10/T/SS	5	10	5,5	11,8	6,0	31,6	24,1	45,2	12,7	5	14	19	30,07 €
BAB5-15/T/SS	5	15	5,5	11,8	6,0	31,6	24,1	45,2	12,7	5	14	20	30,07 €
BAB5-20/T/SS	5	20	5,5	11,8	6,0	31,6	24,1	45,2	12,7	5	14	20	30,07 €
BAB5-25/T/SS	5	25	5,5	11,8	6,0	31,6	24,1	45,2	12,7	5	14	21	30,07 €
BAB5-30/T/SS	5	30	5,5	11,8	6,0	31,6	24,1	45,2	12,7	5	14	22	32,22 €
BAB6-10/T/SS	6	10	7,0	11,8	7,0	31,6	24,1	45,2	12,7	6	21	20	30,36 €
BAB6-15/T/SS	6	15	7,0	11,8	7,0	31,6	24,1	45,2	12,7	6	21	21	30,36 €
BAB6-20/T/SS	6	20	7,0	11,8	7,0	31,6	24,1	45,2	12,7	6	21	22	30,36 €
BAB6-25/T/SS	6	25	7,0	11,8	7,0	31,6	24,1	45,2	12,7	6	21	23	30,36 €
BAB6-30/T/SS	6	30	7,0	11,8	7,0	31,6	24,1	45,2	12,7	6	21	24	32,22 €

Dimensions in mm





IN STOCK

DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-5%	On request

Part number	ØD1	L1	ØD2	ØD3	L2	L3	L4	L5	L6	Corresponding bore H11	Double shear resistance kN min.	Weight (g)	Price each 1 to 5
BAB6-35/T/SS	6	35	7,0	11,8	7,0	31,6	24,1	45,2	12,7	6	21	25	32,22 €
BAB6-40/T/SS	6	40	7,0	11,8	7,0	31,6	24,1	45,2	12,7	6	21	26	32,22 €
BAB6-45/T/SS	6	45	7,0	11,8	7,0	31,6	24,1	45,2	12,7	6	21	27	32,22 €
BAB6-50/T/SS	6	50	7,0	11,8	7,0	31,6	24,1	45,2	12,7	6	21	28	32,22 €
BAB8-20/T/SS	8	20	9,5	14,7	8,2	35,8	26,9	51,5	15,8	8	38	37	33,12 €
BAB8-25/T/SS	8	25	9,5	14,7	8,2	35,8	26,9	51,5	15,8	8	38	39	33,12 €
BAB8-30/T/SS	8	30	9,5	14,7	8,2	35,8	26,9	51,5	15,8	8	38	41	35,32 €
BAB8-35/T/SS	8	35	9,5	14,7	8,2	35,8	26,9	51,5	15,8	8	38	43	35,32 €
BAB8-40/T/SS	8	40	9,5	14,7	8,2	35,8	26,9	51,5	15,8	8	38	44	35,32 €
BAB8-45/T/SS	8	45	9,5	14,7	8,2	35,8	26,9	51,5	15,8	8	38	46	35,32 €
BAB8-50/T/SS	8	50	9,5	14,7	8,2	35,8	26,9	51,5	15,8	8	38	48	35,32 €
BAB10-20/T/SS	10	20	12,0	14,7	9,6	35,8	26,9	51,5	15,8	10	60	44	49,02 €
BAB10-25/T/SS	10	25	12,0	14,7	9,6	35,8	26,9	51,5	15,8	10	60	47	49,02 €
BAB10-30/T/SS	10	30	12,0	14,7	9,6	35,8	26,9	51,5	15,8	10	60	49	51,50 €
BAB10-35/T/SS	10	35	12,0	14,7	9,6	35,8	26,9	51,5	15,8	10	60	52	51,50 €
BAB10-40/T/SS	10	40	12,0	14,7	9,6	35,8	26,9	51,5	15,8	10	60	55	51,50 €
BAB10-45/T/SS	10	45	12,0	14,7	9,6	35,8	26,9	51,5	15,8	10	60	58	51,50 €
BAB10-50/T/SS	10	50	12,0	14,7	9,6	35,8	26,9	51,5	15,8	10	60	61	51,50 €
BAB10-60/T/SS	10	60	12,0	14,7	9,6	35,8	26,9	51,5	15,8	10	60	67	54,09 €
BAB12-25/T/SS	12	25	14,5	18,2	10,6	35,1	25,3	59,1	20,2	12	87	73	49,77 €
BAB12-30/T/SS	12	30	14,5	18,2	10,6	35,1	25,3	59,1	20,2	12	87	77	52,41 €
BAB12-35/T/SS	12	35	14,5	18,2	10,6	35,1	25,3	59,1	20,2	12	87	81	52,41 €
BAB12-40/T/SS	12	40	14,5	18,2	10,6	35,1	25,3	59,1	20,2	12	87	86	52,41 €
BAB12-45/T/SS	12	45	14,5	18,2	10,6	35,1	25,3	59,1	20,2	12	87	90	52,41 €
BAB12-50/T/SS	12	50	14,5	18,2	10,6	35,1	25,3	59,1	20,2	12	87	94	52,41 €
BAB12-60/T/SS	12	60	14,5	18,2	10,6	35,1	25,3	59,1	20,2	12	87	103	54,77 €
BAB12-70/T/SS	12	70	14,5	18,2	10,6	35,1	25,3	59,1	20,2	12	87	111	54,77 €
BAB12-80/T/SS	12	80	14,5	18,2	10,6	35,1	25,3	59,1	20,2	12	87	119	57,11 €

Dimensions in mm

Hardened stainless steel clamping pin

BABT

With T handle

- **Self locking**
- Materials
  Shaft: Stainless steel 1.4542, precipitation hardened with scratch resistant coating
  Spring: Stainless steel
  Handle: Black aluminium (RAL9005)
  Release button: Black stainless steel
- Working temperature range: -30°C to +150°C



Advantages

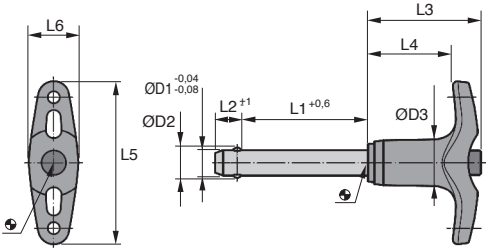
- Push to release
- Easy and quick method of attaching, blocking, adjusting etc... Quickly and easily unlocked for frequently repeated operations.
- Corrosion resistant
- Highly resistant, anti-wear, suitable for heavy duty applications
- Can be used with the **CDR** retaining cable

Info.

- Shear resistance conforms to DIN 50141

Accessory

- **CDR** retaining cable **(tome 1 p.39)**



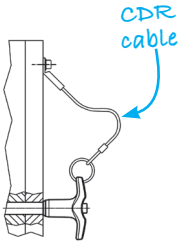
IN STOCK*
Otherwise contact us

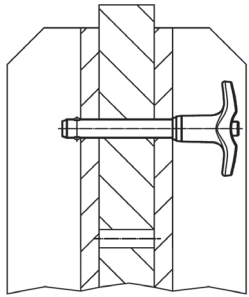
DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-5%	On request

Part number	ØD1	L1	ØD2	ØD3	L2	L3	L4	L5	L6	Corresponding bore H11	Double shear resistance kN min.	Weight (g)	Price each 1 to 5
BAB5-10/T	5	10	5,5	11,8	6,0	31,6	24,1	45,2	12,7	5	24	19	43,24 €
BAB5-15/T	5	15	5,5	11,8	6,0	31,6	24,1	45,2	12,7	5	24	20	43,24 €
BAB5-20/T	5	20	5,5	11,8	6,0	31,6	24,1	45,2	12,7	5	24	20	43,24 €
BAB5-25/T	5	25	5,5	11,8	6,0	31,6	24,1	45,2	12,7	5	24	21	43,24 €
BAB5-30/T	5	30	5,5	11,8	6,0	31,6	24,1	45,2	12,7	5	24	22	45,93 €
BAB6-10/T	6	10	7,0	11,8	7,0	31,6	24,1	45,2	12,7	6	35	20	43,24 €
BAB6-15/T	6	15	7,0	11,8	7,0	31,6	24,1	45,2	12,7	6	35	21	43,24 €
BAB6-20/T	6	20	7,0	11,8	7,0	31,6	24,1	45,2	12,7	6	35	22	43,24 €
BAB6-25/T	6	25	7,0	11,8	7,0	31,6	24,1	45,2	12,7	6	35	23	43,24 €
BAB6-30/T	6	30	7,0	11,8	7,0	31,6	24,1	45,2	12,7	6	35	24	45,93 €

*Depending on availability - Dimensions in mm





IN STOCK*
Otherwise contact us

DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-5%	On request

Part number	ØD1	L1	ØD2	ØD3	L2	L3	L4	L5	L6	Corresponding bore H11	Double shear resistance kN min.	Weight (g)	Price each 1 to 5
BAB6-35/T	6	35	7,0	11,8	7,0	31,6	24,1	45,2	12,7	6	35	25	45,93 €
BAB6-40/T	6	40	7,0	11,8	7,0	31,6	24,1	45,2	12,7	6	35	26	45,93 €
BAB6-45/T	6	45	7,0	11,8	7,0	31,6	24,1	45,2	12,7	6	35	27	45,93 €
BAB6-50/T	6	50	7,0	11,8	7,0	31,6	24,1	45,2	12,7	6	35	28	45,93 €
BAB8-20/T	8	20	9,5	14,7	8,2	35,8	26,9	51,5	15,8	8	63	37	47,75 €
BAB8-25/T	8	25	9,5	14,7	8,2	35,8	26,9	51,5	15,8	8	63	39	47,35 €
BAB8-30/T	8	30	9,5	14,7	8,2	35,8	26,9	51,5	15,8	8	63	41	50,34 €
BAB8-35/T	8	35	9,5	14,7	8,2	35,8	26,9	51,5	15,8	8	63	43	50,34 €
BAB8-40/T	8	40	9,5	14,7	8,2	35,8	26,9	51,5	15,8	8	63	44	50,34 €
BAB8-45/T	8	45	9,5	14,7	8,2	35,8	26,9	51,5	15,8	8	63	46	50,34 €
BAB8-50/T	8	50	9,5	14,7	8,2	35,8	26,9	51,5	15,8	8	63	48	50,34 €
BAB10-20/T	10	20	12,0	14,7	9,6	35,8	26,9	51,5	15,8	10	100	44	69,85 €
BAB10-25/T	10	25	12,0	14,7	9,6	35,8	26,9	51,5	15,8	10	100	47	69,85 €
BAB10-30/T	10	30	12,0	14,7	9,6	35,8	26,9	51,5	15,8	10	100	49	73,52 €
BAB10-35/T	10	35	12,0	14,7	9,6	35,8	26,9	51,5	15,8	10	100	52	73,52 €
BAB10-40/T	10	40	12,0	14,7	9,6	35,8	26,9	51,5	15,8	10	100	55	73,52 €
BAB10-45/T	10	45	12,0	14,7	9,6	35,8	26,9	51,5	15,8	10	100	58	73,52 €
BAB10-50/T	10	50	12,0	14,7	9,6	35,8	26,9	51,5	15,8	10	100	61	73,52 €
BAB10-60/T	10	60	12,0	14,7	9,6	35,8	26,9	51,5	15,8	10	100	67	77,10 €
BAB12-25/T	12	25	14,5	18,2	10,6	35,1	25,3	59,1	20,2	12	144	73	71,29 €
BAB12-30/T	12	30	14,5	18,2	10,6	35,1	25,3	59,1	20,2	12	144	77	74,93 €
BAB12-35/T	12	35	14,5	18,2	10,6	35,1	25,3	59,1	20,2	12	144	81	74,93 €
BAB12-40/T	12	40	14,5	18,2	10,6	35,1	25,3	59,1	20,2	12	144	86	74,93 €
BAB12-45/T	12	45	14,5	18,2	10,6	35,1	25,3	59,1	20,2	12	144	90	74,93 €
BAB12-50/T	12	50	14,5	18,2	10,6	35,1	25,3	59,1	20,2	12	144	94	74,93 €
BAB12-60/T	12	60	14,5	18,2	10,6	35,1	25,3	59,1	20,2	12	144	103	78,38 €
BAB12-70/T	12	70	14,5	18,2	10,6	35,1	25,3	59,1	20,2	12	144	111	78,38 €
BAB12-80/T	12	80	14,5	18,2	10,6	35,1	25,3	59,1	20,2	12	144	119	81,84 €

*Depending on availability - Dimensions in mm

Clamping pin lockable

BABV With simple grip

- ***Lockable version prevents unintentional loosening of the connection***
- *The balls can only be unlocked using a key*
- *Materials :*
  Handle: red thermoplastic (RAL3020)
  Shaft: 303 stainless steel
  Components: stainless steel
  Lock: Die cast zinc
  Key: Zinc-plated steel
- *For H11 bore*

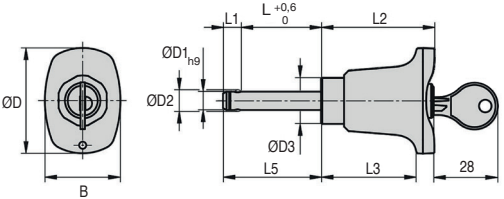


Advantages

- *Press to unlock*
- *Quick and easy to assemble, block, adjust, change and stop*
- *Simply and quickly released when performing repetitive operations*
- *Corrosion resistant*
- *Resists high loads*
- *Ergonomic handle*
- *Can be fitted with* **CDR** *retaining cable* **(tome 1 p.39)**

Infos

- *Shear strength to DIN 50141*
- *The push-button lock has identical locking. All cylinders can be opened with the same key. Lockable locking pins are supplied with two keys*



DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-5%	On request

Part Number	B	ØD	ØD1	ØD2	ØD3	L	L1	L2	L3	L5	Double shear resistance kN min	Price each 1 to 5
BAB8-20/V/R	33	45,9	8	9,5	20	20	7,8	49,5	41,3	27,8	38	45,43 €
BAB8-25/V/R	33	45,9	8	9,5	20	25	7,8	49,5	41,3	32,8	38	45,43 €
BAB8-30/V/R	33	45,9	8	9,5	20	30	7,8	49,5	41,3	37,8	38	48,71 €
BAB8-35/V/R	33	45,9	8	9,5	20	35	7,8	49,5	41,3	42,8	38	48,71 €
BAB8-40/V/R	33	45,9	8	9,5	20	40	7,8	49,5	41,3	47,8	38	48,71 €
BAB8-45/V/R	33	45,9	8	9,5	20	45	7,8	49,5	41,3	52,8	38	48,71 €
BAB8-50/V/R	33	45,9	8	9,5	20	50	7,8	49,5	41,3	57,8	38	48,71 €
BAB10-20/V/R	33	45,9	10	12,0	20	20	8,9	49,5	41,3	28,9	60	63,51 €
BAB10-25/V/R	33	45,9	10	12,0	20	25	8,9	49,5	41,3	33,9	60	63,51 €
BAB10-30/V/R	33	45,9	10	12,0	20	30	8,9	49,5	41,3	38,9	60	66,26 €
BAB10-35/V/R	33	45,9	10	12,0	20	35	8,9	49,5	41,3	43,9	60	66,26 €
BAB10-40/V/R	33	45,9	10	12,0	20	40	8,9	49,5	41,3	48,9	60	66,26 €
BAB10-45/V/R	33	45,9	10	12,0	20	45	8,9	49,5	41,3	53,9	60	66,26 €
BAB10-50/V/R	33	45,9	10	12,0	20	50	8,9	49,5	41,3	58,9	60	66,26 €
BAB10-60/V/R	33	45,9	10	12,0	20	60	8,9	49,5	41,3	68,9	60	69,69 €
BAB12-25/V/R	33	45,9	12	14,5	20	25	9,9	49,5	41,3	34,9	86	57,04 €
BAB12-30/V/R	33	45,9	12	14,5	20	30	9,9	49,5	41,3	39,9	86	60,13 €
BAB12-35/V/R	33	45,9	12	14,5	20	35	9,9	49,5	41,3	44,9	86	60,13 €
BAB12-40/V/R	33	45,9	12	14,5	20	40	9,9	49,5	41,3	49,9	86	60,13 €
BAB12-45/V/R	33	45,9	12	14,5	20	45	9,9	49,5	41,3	54,9	86	60,13 €
BAB12-50/V/R	33	45,9	12	14,5	20	50	9,9	49,5	41,3	59,9	86	60,13 €
BAB12-60/V/R	33	45,9	12	14,5	20	60	9,9	49,5	41,3	69,9	86	63,21 €
BAB12-70/V/R	33	45,9	12	14,5	20	70	9,9	49,5	41,3	79,9	86	63,21 €
BAB12-80/V/R	33	45,9	12	14,5	20	80	9,9	49,5	41,3	89,9	86	65,95 €
BAB16-30/V/R	33	45,9	16	19	20	30	13,1	49,5	41,3	43,1	153	84,52 €
BAB16-35/V/R	33	45,9	16	19	20	35	13,1	49,5	41,3	48,1	153	85,90 €
BAB16-40/V/R	33	45,9	16	19	20	40	13,1	49,5	41,3	53,1	153	85,90 €
BAB16-45/V/R	33	45,9	16	19	20	45	13,1	49,5	41,3	58,1	153	85,90 €
BAB16-50/V/R	33	45,9	16	19	20	50	13,1	49,5	41,3	63,1	153	85,90 €
BAB16-60/V/R	33	45,9	16	19	20	60	13,1	49,5	41,3	73,1	153	91,28 €
BAB16-70/V/R	33	45,9	16	19	20	70	13,1	49,5	41,3	83,1	153	91,28 €
BAB16-80/V/R	33	45,9	16	19	20	80	13,1	49,5	41,3	93,1	153	96,61 €

Dimensions in mm

Clamping pin lockable

BABTV

With T-grip

- **Lockable version prevents unintentional loosening of the connection**
- The balls can only be unlocked using a key
- Materials :
  Handle: red thermoplastic (RAL3020)
  Shaft: 303 stainless steel
  Components: stainless steel
  Lock: Die cast zinc
  Key: Zinc-plated steel
- For H11 bore

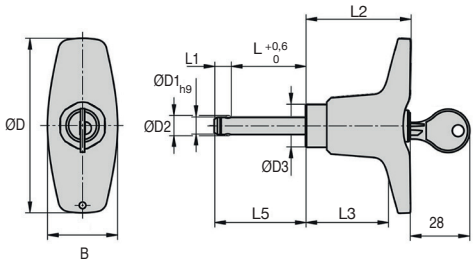


Advantages

- Press to unlock
- Quick and easy to assemble, block, adjust, change and stop
- Simply and quickly released when performing repetitive operations
- Corrosion resistant
- Resists high loads
- Ergonomic handle
- Can be fitted with **CDR** retaining cable **(tome 1 p.39)**

Infos

- Shear strength to DIN 50141
- The push-button lock has identical locking. All cylinders can be opened with the same key. Lockable locking pins are supplied with two keys.



DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-5%	On request

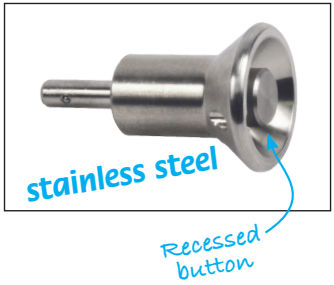
Part Number	B	ØD	ØD1	ØD2	ØD3	L	L1	L2	L3	L5	Double shear resistance kN min	Price each 1 to 5
BAB8-20/T/V/R	33	81,8	8	9,5	20	20	7,8	49,4	38,8	27,8	38	45,43 €
BAB8-25/T/V/R	33	81,8	8	9,5	20	25	7,8	49,4	38,8	32,8	38	45,43 €
BAB8-30/T/V/R	33	81,8	8	9,5	20	30	7,8	49,4	38,8	37,8	38	48,71 €
BAB8-35/T/V/R	33	81,8	8	9,5	20	35	7,8	49,4	38,8	42,8	38	48,71 €
BAB8-40/T/V/R	33	81,8	8	9,5	20	40	7,8	49,4	38,8	47,8	38	48,71 €
BAB8-45/T/V/R	33	81,8	8	9,5	20	45	7,8	49,4	38,8	52,8	38	48,71 €
BAB8-50/T/V/R	33	81,8	8	9,5	20	50	7,8	49,4	38,8	57,8	38	48,71 €
BAB10-20/T/V/R	33	81,8	10	12,0	20	20	8,9	49,4	38,8	28,9	60	63,51 €
BAB10-25/T/V/R	33	81,8	10	12,0	20	25	8,9	49,4	38,8	33,9	60	63,51 €
BAB10-30/T/V/R	33	81,8	10	12,0	20	30	8,9	49,4	38,8	38,9	60	66,26 €
BAB10-35/T/V/R	33	81,8	10	12,0	20	35	8,9	49,4	38,8	43,9	60	66,26 €
BAB10-40/T/V/R	33	81,8	10	12,0	20	40	8,9	49,4	38,8	48,9	60	66,26 €
BAB10-45/T/V/R	33	81,8	10	12,0	20	45	8,9	49,4	38,8	53,9	60	66,26 €
BAB10-50/T/V/R	33	81,8	10	12,0	20	50	8,9	49,4	38,8	58,9	60	66,26 €
BAB10-60/T/V/R	33	81,8	10	12,0	20	60	8,9	49,4	38,8	68,9	60	69,69 €
BAB12-25/T/V/R	33	81,8	12	14,5	20	25	9,9	49,4	38,8	34,9	86	57,04 €
BAB12-30/T/V/R	33	81,8	12	14,5	20	30	9,9	49,4	38,8	39,9	86	60,13 €
BAB12-35/T/V/R	33	81,8	12	14,5	20	35	9,9	49,4	38,8	44,9	86	60,13 €
BAB12-40/T/V/R	33	81,8	12	14,5	20	40	9,9	49,4	38,8	49,9	86	60,13 €
BAB12-45/T/V/R	33	81,8	12	14,5	20	45	9,9	49,4	38,8	54,9	86	60,13 €
BAB12-50/T/V/R	33	81,8	12	14,5	20	50	9,9	49,4	38,8	59,9	86	60,13 €
BAB12-60/T/V/R	33	81,8	12	14,5	20	60	9,9	49,4	38,8	69,9	86	63,21 €
BAB12-70/T/V/R	33	81,8	12	14,5	20	70	9,9	49,4	38,8	79,9	86	63,21 €
BAB12-80/T/V/R	33	81,8	12	14,5	20	80	9,9	49,4	38,8	89,9	86	65,95 €
BAB16-30/T/V/R	33	81,8	16	19,0	20	30	13,1	49,4	38,8	43,1	153	84,52 €
BAB16-35/T/V/R	33	81,8	16	19,0	20	35	13,1	49,4	38,8	48,1	153	85,90 €
BAB16-40/T/V/R	33	81,8	16	19,0	20	40	13,1	49,4	38,8	53,1	153	85,90 €
BAB16-45/T/V/R	33	81,8	16	19,0	20	45	13,1	49,4	38,8	58,1	153	85,90 €
BAB16-50/T/V/R	33	81,8	16	19,0	20	50	13,1	49,4	38,8	63,1	153	85,90 €
BAB16-60/T/V/R	33	81,8	16	19,0	20	60	13,1	49,4	38,8	73,1	153	91,28 €
BAB16-70/T/V/R	33	81,8	16	19,0	20	70	13,1	49,4	38,8	83,1	153	91,28 €
BAB16-80/T/V/R	33	81,8	16	19,0	20	80	13,1	49,4	38,8	93,1	153	96,61 €

Dimensions in mm

301 Stainless steel clamping pin

BABPSS — Recessed button

- **Self locking**
- Materials:
  Body: Stainless steel 303, natural finish
  Spring: Stainless steel 301
  Pin: Stainless steel
- Max working temp: 250°C

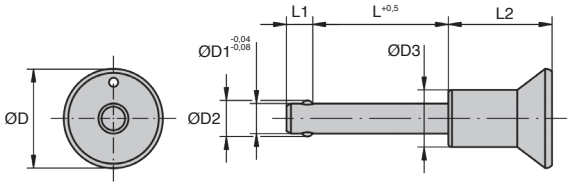


Advantages

- Handle shape protects button to prevent any inadvertent operation
- Press to unlock
- Quick to insert, block, change and stop
- Simply and easily released when performing repetitive operations
- Corrosion resistant

Accessory

- **CDR** retaining cable **(tome 1 p.39)**



DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-5%	On request

Part number	ØD	ØD1	ØD2	ØD3	L	L1	L2	For bore H11	Double shear resistance (kN)	Price each 1 to 5
BAB5-10/P/SS	25	5	5,5	14	10	6	26,5	5	15	20,48 €
BAB5-15/P/SS	25	5	5,5	14	15	6	26,5	5	15	20,86 €
BAB5-20/P/SS	25	5	5,5	14	20	6	26,5	5	15	21,26 €
BAB5-25/P/SS	25	5	5,5	14	25	6	26,5	5	15	22,84 €
BAB5-30/P/SS	25	5	5,5	14	30	6	26,5	5	15	23,13 €

Dimensions in mm

Part number	ØD	ØD1	ØD2	ØD3	L	L1	L2	For bore H11	Double shear resistance (kN)	Price each 1 to 5
BAB6-10/P/SS	25	6	6,85	14	10	7	26,5	6	22	21,82 €
BAB6-15/P/SS	25	6	6,85	14	15	7	26,5	6	22	22,55 €
BAB6-20/P/SS	25	6	6,85	14	20	7	26,5	6	22	23,08 €
BAB6-25/P/SS	25	6	6,85	14	25	7	26,5	6	22	23,57 €
BAB6-30/P/SS	25	6	6,85	14	30	7	26,5	6	22	24,45 €
BAB6-35/P/SS	25	6	6,85	14	35	7	26,5	6	22	25,07 €
BAB6-40/P/SS	25	6	6,85	14	40	7	26,5	6	22	25,57 €
BAB6-45/P/SS	25	6	6,85	14	45	7	26,5	6	22	26,73 €
BAB6-50/P/SS	25	6	6,85	14	50	7	26,5	6	22	27,33 €
BAB8-20/P/SS	25	8	9,5	14	20	8	26,5	8	38	23,30 €
BAB8-25/P/SS	25	8	9,5	14	25	8	26,5	8	38	23,79 €
BAB8-30/P/SS	25	8	9,5	14	30	8	26,5	8	38	24,27 €
BAB8-35/P/SS	25	8	9,5	14	35	8	26,5	8	38	24,75 €
BAB8-40/P/SS	25	8	9,5	14	40	8	26,5	8	38	25,24 €
BAB8-45/P/SS	25	8	9,5	14	45	8	26,5	8	38	25,73 €
BAB8-50/P/SS	25	8	9,5	14	50	8	26,5	8	38	26,24 €
BAB10-20/P/SS	33	10	12	19	20	9	34,6	10	60	24,89 €
BAB10-25/P/SS	33	10	12	19	25	9	34,6	10	60	25,18 €
BAB10-30/P/SS	33	10	12	19	30	9	34,6	10	60	25,67 €
BAB10-35/P/SS	33	10	12	19	35	9	34,6	10	60	26,19 €
BAB10-40/P/SS	33	10	12	19	40	9	34,6	10	60	26,59 €
BAB10-45/P/SS	33	10	12	19	45	9	34,6	10	60	27,01 €
BAB10-50/P/SS	33	10	12	19	50	9	34,6	10	60	28,96 €
BAB10-60/P/SS	33	10	12	19	60	9	34,6	10	60	31,24 €
BAB12-25/P/SS	33	12	14,5	19	25	10	34,6	12	86	30,40 €
BAB12-30/P/SS	33	12	14,5	19	30	10	34,6	12	86	31,04 €
BAB12-35/P/SS	33	12	14,5	19	35	10	34,6	12	86	31,62 €
BAB12-40/P/SS	33	12	14,5	19	40	10	34,6	12	86	32,23 €
BAB12-45/P/SS	33	12	14,5	19	45	10	34,6	12	86	32,87 €
BAB12-50/P/SS	33	12	14,5	19	50	10	34,6	12	86	34,08 €
BAB12-60/P/SS	33	12	14,5	19	60	10	34,6	12	86	36,59 €
BAB12-70/P/SS	33	12	14,5	19	70	10	34,6	12	86	39,21 €
BAB12-80/P/SS	33	12	14,5	19	80	10	34,6	12	86	41,98 €
BAB16-30/P/SS	33	16	19	20	30	13,3	34,6	16	153	79,23 €
BAB16-35/P/SS	33	16	19	20	35	13,3	34,6	16	153	79,72 €
BAB16-40/P/SS	33	16	19	20	40	13,3	34,6	16	153	80,27 €
BAB16-45/P/SS	33	16	19	20	45	13,3	34,6	16	153	82,33 €
BAB16-50/P/SS	33	16	19	20	50	13,3	34,6	16	153	84,62 €
BAB16-60/P/SS	33	16	19	20	60	13,3	34,6	16	153	87,74 €
BAB16-70/P/SS	33	16	19	20	70	13,3	34,6	16	153	91,94 €
BAB16-80/P/SS	33	16	19	20	80	13,3	34,6	16	153	96,07 €

Dimensions in mm

BABPASS With grip ring

Ø5 to Ø12

- **Self-blocking**
- Materials:
  Stainless steel rod 630 hardened 40HRC passivated
  Grip and push button stainless steel 303, passivated
  Stainless steel spring
  stainless steel 440C balls hardened 58HRC and passivated

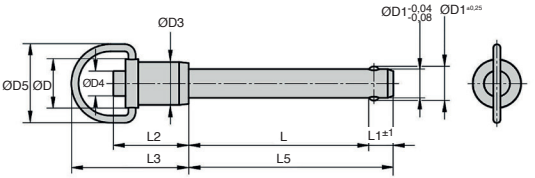


Advantages

- Ball lock pins are used for quick and easy fastening and joining of parts and workpieces.
- The hardened, high-tensile stainless steel pin permits extreme loads with low wear.

Assembly

- The drill hole is machined to tolerance H11



DISCOUNTS

Qty	1+	6+	10+
Disc.	Price	-5%	On request

Part number	ØD1	L	ØD	ØD2	ØD3	ØD4	ØD5	L1	L2	L3	L5	Shearing force double shear (kN)	Price each 1 to 5
BAB5-10/PA/SS	5	10	15	5,54	11,9	5,8	29,5	6	23,4	36,8	16	24,4	41,61 €
BAB5-15/PA/SS	5	15	15	5,54	11,9	5,8	29,5	6	23,4	36,8	21	24,4	41,61 €
BAB5-20/PA/SS	5	20	15	5,54	11,9	5,8	29,5	6	23,4	36,8	26	24,4	41,61 €
BAB5-25/PA/SS	5	25	15	5,54	11,9	5,8	29,5	6	23,4	36,8	31	24,4	41,61 €
BAB5-30/PA/SS	5	30	15	5,54	11,9	5,8	29,5	6	23,4	36,8	36	24,4	42,46 €
BAB5-35/PA/SS	5	35	15	5,54	11,9	5,8	29,5	6	23,4	36,8	41	24,4	42,46 €
BAB5-40/PA/SS	5	40	15	5,54	11,9	5,8	29,5	6	23,4	36,8	46	24,4	42,46 €
BAB5-45/PA/SS	5	45	15	5,54	11,9	5,8	29,5	6	23,4	36,8	51	24,4	42,77 €
BAB5-50/PA/SS	5	50	15	5,54	11,9	5,8	29,5	6	23,4	36,8	56	24,4	42,77 €
BAB5-60/PA/SS	5	60	15	5,54	11,9	5,8	29,5	6	23,4	36,8	66	24,4	47,75 €
BAB5-70/PA/SS	5	70	15	5,54	11,9	5,8	29,5	6	23,4	36,8	76	24,4	47,75 €
BAB5-80/PA/SS	5	80	15	5,54	11,9	5,8	29,5	6	23,4	36,8	86	24,4	47,75 €
BAB5-90/PA/SS	5	90	15	5,54	11,9	5,8	29,5	6	23,4	36,8	96	24,4	49,29 €
BAB5-100/PA/SS	5	100	15	5,54	11,9	5,8	29,5	6	23,4	36,8	106	24,4	56,91 €

Dimensions in mm

Part number	ØD1	L	ØD	ØD2	ØD3	ØD4	ØD5	L1	L2	L3	L5	Shearing force double shear (kN)	Price each 1 to 5
BAB6-10/PA/SS	6	10	15	6,99	11,9	5,8	29,5	7	23,4	36,8	17	35,64	38,28 €
BAB6-15/PA/SS	6	15	15	6,99	11,9	5,8	29,5	7	23,4	36,8	22	35,64	38,28 €
BAB6-20/PA/SS	6	20	15	6,99	11,9	5,8	29,5	7	23,4	36,8	27	35,64	41,34 €
BAB6-25/PA/SS	6	25	15	6,99	11,9	5,8	29,5	7	23,4	36,8	32	35,64	41,34 €
BAB6-30/PA/SS	6	30	15	6,99	11,9	5,8	29,5	7	23,4	36,8	37	35,64	43,90 €
BAB6-35/PA/SS	6	35	15	6,99	11,9	5,8	29,5	7	23,4	36,8	42	35,64	43,90 €
BAB6-40/PA/SS	6	40	15	6,99	11,9	5,8	29,5	7	23,4	36,8	47	35,64	43,90 €
BAB6-45/PA/SS	6	45	15	6,99	11,9	5,8	29,5	7	23,4	36,8	52	35,64	46,40 €
BAB6-50/PA/SS	6	50	15	6,99	11,9	5,8	29,5	7	23,4	36,8	57	35,64	46,40 €
BAB6-60/PA/SS	6	60	15	6,99	11,9	5,8	29,5	7	23,4	36,8	67	35,64	48,28 €
BAB6-70/PA/SS	6	70	15	6,99	11,9	5,8	29,5	7	23,4	36,8	77	35,64	48,28 €
BAB6-80/PA/SS	6	80	15	6,99	11,9	5,8	29,5	7	23,4	36,8	87	35,64	48,28 €
BAB6-90/PA/SS	6	90	15	6,99	11,9	5,8	29,5	7	23,4	36,8	97	35,64	50,50 €
BAB6-100/PA/SS	6	100	15	6,99	11,9	5,8	29,5	7	23,4	36,8	107	35,64	52,83 €
BAB8-10/PA/SS	8	10	15	9,42	11,9	5,8	29,5	8	23,4	36,8	18	63,8	44,27 €
BAB8-15/PA/SS	8	15	15	9,42	11,9	5,8	29,5	8	23,4	36,8	23	63,8	44,27 €
BAB8-20/PA/SS	8	20	15	9,42	11,9	5,8	29,5	8	23,4	36,8	28	63,8	44,27 €
BAB8-25/PA/SS	8	25	15	9,42	11,9	5,8	29,5	8	23,4	36,8	33	63,8	44,27 €
BAB8-30/PA/SS	8	30	15	9,42	11,9	5,8	29,5	8	23,4	36,8	38	63,8	47,75 €
BAB8-35/PA/SS	8	35	15	9,42	11,9	5,8	29,5	8	23,4	36,8	43	63,8	47,75 €
BAB8-40/PA/SS	8	40	15	9,42	11,9	5,8	29,5	8	23,4	36,8	48	63,8	51,21 €
BAB8-45/PA/SS	8	45	15	9,42	11,9	5,8	29,5	8	23,4	36,8	53	63,8	51,21 €
BAB8-50/PA/SS	8	50	15	9,42	11,9	5,8	29,5	8	23,4	36,8	58	63,8	51,21 €
BAB8-60/PA/SS	8	60	15	9,42	11,9	5,8	29,5	8	23,4	36,8	68	63,8	54,79 €
BAB8-70/PA/SS	8	70	15	9,42	11,9	5,8	29,5	8	23,4	36,8	78	63,8	54,79 €
BAB8-80/PA/SS	8	80	15	9,42	11,9	5,8	29,5	8	23,4	36,8	88	63,8	54,79 €
BAB8-90/PA/SS	8	90	15	9,42	11,9	5,8	29,5	8	23,4	36,8	98	63,8	56,08 €
BAB8-100/PA/SS	8	100	15	9,42	11,9	5,8	29,5	8	23,4	36,8	108	63,8	56,08 €
BAB10-15/PA/SS	10	15	16,5	11,86	14,2	7,4	29,5	9	25,7	38,6	24	100,1	47,29 €
BAB10-20/PA/SS	10	20	16,5	11,86	14,2	7,4	29,5	9	25,7	38,6	29	100,1	47,29 €
BAB10-25/PA/SS	10	25	16,5	11,86	14,2	7,4	29,5	9	25,7	38,6	34	100,1	47,29 €
BAB10-30/PA/SS	10	30	16,5	11,86	14,2	7,4	29,5	9	25,7	38,6	39	100,1	53,31 €
BAB10-35/PA/SS	10	35	16,5	11,86	14,2	7,4	29,5	9	25,7	38,6	44	100,1	53,31 €
BAB10-40/PA/SS	10	40	16,5	11,86	14,2	7,4	29,5	9	25,7	38,6	49	100,1	53,31 €
BAB10-45/PA/SS	10	45	16,5	11,86	14,2	7,4	29,5	9	25,7	38,6	54	100,1	53,31 €
BAB10-50/PA/SS	10	50	16,5	11,86	14,2	7,4	29,5	9	25,7	38,6	59	100,1	53,31 €
BAB10-60/PA/SS	10	60	16,5	11,86	14,2	7,4	29,5	9	25,7	38,6	69	100,1	62,62 €
BAB10-70/PA/SS	10	70	16,5	11,86	14,2	7,4	29,5	9	25,7	38,6	79	100,1	62,62 €
BAB10-80/PA/SS	10	80	16,5	11,86	14,2	7,4	29,5	9	25,7	38,6	89	100,1	62,62 €
BAB10-90/PA/SS	10	90	16,5	11,86	14,2	7,4	29,5	9	25,7	38,6	99	100,1	65,07 €
BAB10-100/PA/SS	10	100	16,5	11,86	14,2	7,4	29,5	9	25,7	38,6	109	100,1	65,07 €
BAB12-20/PA/SS	12	20	20,6	14,5	18,3	10,7	36,3	10	32,3	47,8	30,0	144,1	63,01 €
BAB12-25/PA/SS	12	25	20,6	14,5	18,3	10,7	36,3	10	32,3	47,8	35,0	144,1	63,01 €
BAB12-30/PA/SS	12	30	20,6	14,5	18,3	10,7	36,3	10	32,3	47,8	40,0	144,1	68,85 €
BAB12-35/PA/SS	12	35	20,6	14,5	18,3	10,7	36,3	10	32,3	47,8	45,0	144,1	68,85 €
BAB12-40/PA/SS	12	40	20,6	14,5	18,3	10,7	36,3	10	32,3	47,8	50,0	144,1	68,85 €
BAB12-45/PA/SS	12	45	20,6	14,5	18,3	10,7	36,3	10	32,3	47,8	55,0	144,1	80,31 €

Dimensions in mm

Stainless steel clamping pin

BABPASS — With grip ring

Ø12 to Ø16



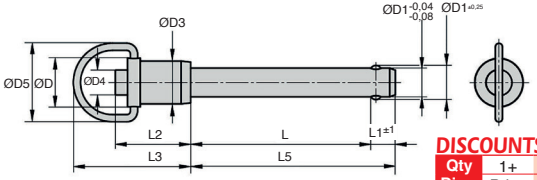
- **Self-blocking**
- Materials:
  Stainless steel rod 630 hardened 40HRC passivated
  Grip and push button stainless steel 303, passivated
  Stainless steel spring
  stainless steel 440C balls hardened 58HRC and passivated

Advantages

- Ball lock pins are used for quick and easy fastening and joining of parts and workpieces.
- The hardened, high-tensile stainless steel pin permits extreme loads with low wear.

Assembly

- The drill hole is machined to tolerance H11



DISCOUNTS

Qty	1+	5+	10+
Disc.	Price	-10%	On request

Part number	ØD1	L	ØD	ØD2	ØD3	ØD4	ØD5	L1	L2	L3	L5	Shearing force double shear (kN)	Price each 1 to 5
BAB12-50/PA/SS	12	50	20,6	14,5	18,3	10,7	36,3	10	32,3	47,8	60,0	144,1	80,31 €
BAB12-60/PA/SS	12	60	20,6	14,5	18,3	10,7	36,3	10	32,3	47,8	70,0	144,1	80,31 €
BAB12-70/PA/SS	12	70	20,6	14,5	18,3	10,7	36,3	10	32,3	47,8	80,0	144,1	80,31 €
BAB12-80/PA/SS	12	80	20,6	14,5	18,3	10,7	36,3	10	32,3	47,8	90,0	144,1	80,31 €
BAB12-90/PA/SS	12	90	20,6	14,5	18,3	10,7	36,3	10	32,3	47,8	100,0	144,1	94,26 €
BAB12-100/PA/SS	12	100	20,6	14,5	18,3	10,7	36,3	10	32,3	47,8	110,0	144,1	94,26 €
BAB16-25/PA/SS	16	25	26,9	19,0	23,9	13,7	43,7	14	41,9	65,3	39,0	257,2	92,35 €
BAB16-30/PA/SS	16	30	26,9	19,0	23,9	13,7	43,7	14	41,9	65,3	44,0	257,2	105,33 €
BAB16-35/PA/SS	16	35	26,9	19,0	23,9	13,7	43,7	14	41,9	65,3	49,0	257,2	105,33 €
BAB16-40/PA/SS	16	40	26,9	19,0	23,9	13,7	43,7	14	41,9	65,3	54,0	257,2	105,33 €
BAB16-45/PA/SS	16	45	26,9	19,0	23,9	13,7	43,7	14	41,9	65,3	59,0	257,2	105,33 €
BAB16-50/PA/SS	16	50	26,9	19,0	23,9	13,7	43,7	14	41,9	65,3	64,0	257,2	105,33 €
BAB16-60/PA/SS	16	60	26,9	19,0	23,9	13,7	43,7	14	41,9	65,3	74,0	257,2	118,31 €
BAB16-70/PA/SS	16	70	26,9	19,0	23,9	13,7	43,7	14	41,9	65,3	84,0	257,2	118,31 €
BAB16-80/PA/SS	16	80	26,9	19,0	23,9	13,7	43,7	14	41,9	65,3	94,0	257,2	118,31 €
BAB16-90/PA/SS	16	90	26,9	19,0	23,9	13,7	43,7	14	41,9	65,3	104,0	257,2	131,28 €
BAB16-100/PA/SS	16	100	26,9	19,0	23,9	13,7	43,7	14	41,9	65,3	114,0	257,2	131,28 €

Dimensions in mm

Full range of CASTORS

on HPCEUROPE.COM



- Steel or stainless steel
- With or without a brake
- High temperatures
- Alternative wheel materials
- Range of mounting plates

Mounting collar for clamping pin

Sta

BABFC
BABFO

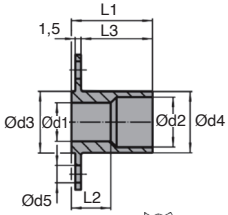
With a round or oval flange

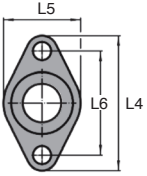
- ***For use on thin sheet metal***
- *These collars offer a quick and securing method of mounting ball pins*
- *For the construction of boxes or other containers*
- *Material: 303, stainless steel*



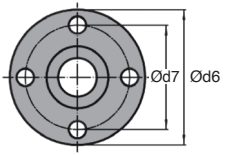
Operation principle

- *The large contact surface area ensures that all the force is spread evenly over thin walled structures*

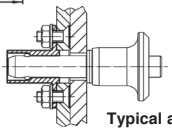




BABFO :
Oval flange



BABFC :
Cylindrical flange



Typical application

DISCOUNTS

Qty	1+	6+	10+	25+
Disc.	List	-5%	-10%	On request

with cylindrical flange

Part number	Ød1	Ød2	Ød3 -0,05	Ød4 -0,1	Ød5	Ød6	Ød7	L1	L2	L3	Weight (g)	Price each 1 to 5
BAB5-8/FC/SS	5	8	10	9,9	3,4	25	19	12	5,4	9,5	9	23,70 €
BAB6-8/FC/SS	6	8	10	9,9	3,4	25	19	13	5,3	10,5	9	23,70 €
BAB8-10/FC/SS	8	10	12	11,9	4,5	30	22	19	10,3	16,5	14	26,37 €
BAB10-13/FC/SS	10	13	16	15,9	4,5	35	27	21	10,2	18,5	24	29,15 €
BAB12-15/FC/SS	12	15	19	18,9	4,5	40	30	27	15,2	24,5	41	33,17 €
BAB16-20/FC/SS	16	20	24	23,9	5,5	50	40	30	15,3	27,5	63	38,98 €

with oval flange

Part number	Ød1	Ød2	Ød3 -0,05	Ød4 -0,1	Ød5	L1	L2	L3	L4	L5	L6	Weight (g)	Price each 1 to 5
BAB5-8/FO/SS	5	8	10	9,9	3,4	12	5,4	9,5	25	15	19	6	27,36 €
BAB6-8/FO/SS	6	8	10	9,9	3,4	13	5,3	10,5	25	15	19	6	27,36 €
BAB8-10/FO/SS	8	10	12	11,9	4,5	19	10,3	16,5	30	18	22	10	30,66 €
BAB10-13/FO/SS	10	13	16	15,9	4,5	21	10,2	18,5	35	20	27	19	33,91 €
BAB12-15/FO/SS	12	15	19	18,9	4,5	27	15,2	24,5	40	24	30	34	37,92 €
BAB16-20/FO/SS	16	20	24	23,9	5,5	30	15,3	27,5	50	30	40	52	41,97 €

Dimensions in mm

Clamping pin socket

Threaded adaptor

BAB

- ***Allows ball pins to be positioned quickly and more securely***
- *Material:*
  Stainless steel 1.4305 (303)

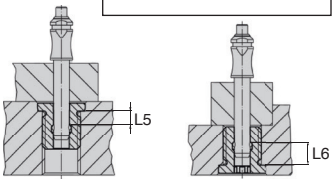
stainless steel



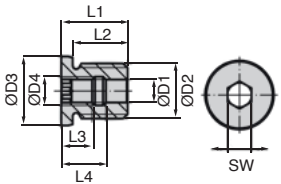
Simple and safe assembly

Advantages

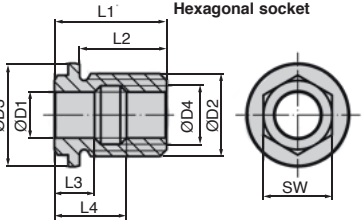
- *Precision collar means optimised centring*
- *Simple and safe assembly*
- *Suitable for use with different materials*
- *Suitable for use with thin walled materials*
- *Corrosion resistant*
- *Wear resistant*
- *Can be mounted from either side*



Hexagonal head



Hexagonal socket



DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-5%	On request

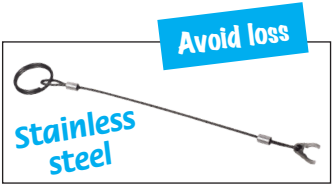
Part number	ØD1 H11	ØD2	ØD3	ØD4	L1	L2	L3	L4	L5	L6	SW	Weight (g)	Price each 1 to 5
Hexagonal head													
BAB5-M12	5	M12	18	6,0	19	15	9,0	13,0	5,1	9,0	5	15	23,43 €
BAB6-M12	6	M12	18	7,5	19	15	9,4	13,0	5,6	8,8	6	13	23,43 €
BAB8-M16	8	M16	22	10,0	25	20	12,0	17,0	7,3	11,7	8	29	34,59 €
BAB10-M24	10	M24	30	12,5	29	24	13,5	19,5	8,9	14,1	10	75	40,16 €
BAB12-M24	12	M24	30	15,0	29	24	14,0	20,0	9,6	14,4	12	66	41,50 €
Hexagonal socket													
BAB16-M30	16	M30	36	19,5	39	29	15,5	23,5	6,1	12,8	24	124	45,69 €
BAB20-M36	20	M36	45	25,5	49	38	17,5	31,5	7,7	19,3	30	208	76,15 €

Dimensions in mm

Retaining cable for clamping pin

CDRs

Avoids loss of ball pin



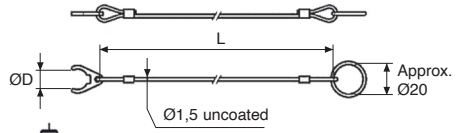
- ***Cable for use with BAB/S and BAB/S303 ball pins***
- *With loop on one end and circlip on the other*
- *Materials:*
  Cable - uncoated stainless steel
  Circlip/Ring - stainless steel
- *T° use max.: 250°C*

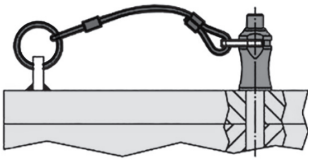
Assembly

- *Use a mallet to secure the circlip to the ball pin, it can be removed using a screwdriver as a lever.*

Accessories

- **BABs, BABs303** *clamping pin* ***(tome 1 p.12- tome 1 p.14)***





Used with
BABs or BABs303 ball pin

DISCOUNTS

Qty	1+	6+	10+	25+
Disc.	List	-5%	-10%	On request

Part number	L	ØD	Use with	Weight (g)	Stock*	Price each 1 to 5
CDR8-150/S	150	8,0	BAB5, BAB6	6	-	12,79 €
CDR11-150/S	150	11,6	BAB8, BAB10	7	-	13,66 €
CDR17-150/S	150	17,0	BAB12, BAB16	8	-	14,78 €
CDR24-150/S	150	24,0	BAB20	12	-	18,02 €
CDR8-200/S	200	8,0	BAB5, BAB6	7	✔	13,16 €
CDR11-200/S	200	11,6	BAB8, BAB10	8	✔	14,03 €
CDR17-200/S	200	17,0	BAB12, BAB16	9	-	15,11 €

**Depending on availability - Dimensions in mm*

Retaining cable for clamping pins

Avoids accidental loss

CDR

- **With fastening loops**
- Materials:
  Cable: stainless steel with transparent PVC covering
  Rings: stainless steel
- Maximum operating temperature: 80°C

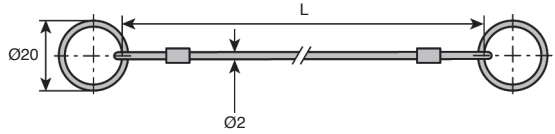


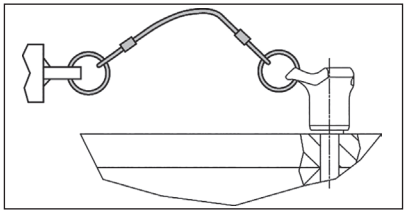
Info.

- This cable attaches to the **BAB** clamping pin (except BAB/S and BAB/S303)
- Avoids pins being misplaced

Accessories

- **BABSS, BAB, BABT, BABTSS, BABPSS** clamping pin
  (from tome 1 p.16)





Typical application

DISCOUNTS

Qty	1+	6+	10+	25+
Disc.	List	-5%	-10%	On request

Part number	L (mm)	Weight (g)	Stock*	Price each 1 to 5
CDR-150	150	5	✔	9,90 €
CDR-200	200	5	✔	10,23 €
CDR-300	300	6	✔	10,75 €

**Depending on availability - Dimensions in mm*

Buying guide

Light indexing

: Indexing pin : balls

					
Part number	**BLM**	**BPMz**	**BPM**	**BPMLOK**	**BPMc**
Type	spring plunger	spring plunger	spring plunger	spring plunger	spring plunger
Characteristic	spring loaded	spring loaded with slot	spring loaded with slot	spring loaded with slot	spring loaded with slot
Advantage	simple assembly	standard	standard	self locking thread	wear resistance
Indexing system	●	●	●	●	●
Thread / Diameter	Ø5 → Ø10	M6 → M8	M6 → M20	M6 → M20	M5 → M16
Material body	steel or **stainless steel**	plastic	steel or **stainless steel**	steel or **stainless steel**	**stainless steel**
Material ball / finger	**Stainless steel** or delrin	**Stainless steel** or delrin	steel or **stainless steel**	steel or **stainless steel**	ceramic
Quality	☆☆	☆	☆☆	☆☆☆	☆☆☆
Price	€	€	€	€	€€
Pages	1 **p.42**	1 **p.43**	1 **p.44**	1 **p.45**	1 **p.46**

					
Part number	**CFC**	**BSM**	**BSMLOK**	**PDD**	**PDD**
Type	detection spring plunger	Spring plunger	Spring plunger	detection spring plunger	detection spring plunger
Characteristic	Electrical contact	with 6 hexagon socket	with 6 hexagon socket	fine pitch	with axis
Advantage	end position sensor	standard	self locking thread	for sensor	rear detection
Indexing system	◢	◢	◢	◢	◢
Thread / Diameter	M6 → M10	M4 → M24	M5 → M16	M12x1 → M16x1	M8 → M16
Material body	steel	steel or **stainless steel**	steel or **stainless steel**	**stainless steel**	steel
Material ball / finger	steel	steel, plastic or **stainless steel**	steel, plastic or **stainless steel**	**stainless steel**	steel
Quality	☆☆☆	☆☆	☆☆☆	☆☆☆	☆☆☆
Price	€€€	€€	€	€€€	€€€
Pages	1 **p.47**	1 **p.48**	1 **p.49**	1 **p.50**	1 **p.51**

						
DIV	**DIL**	**DIA**	**PPG**	**PPJ**	**DILC**	**DILCss**
indexing pin device to be turned	indexing pin	indexing pin ring	indexing pin with flange	indexing pin with flange	Indexing pin with lever	Indexing pin with lever
turn to unlock	pull for unlock	pull for unlock	pull for unlock	pull for unlock	Flip to unlock	Flip to unlock
lockable	lockable	automatable	lockable	automatable	lockable	lockable
M12 ➜ M20	M6 ➜ M16	M8x1 ➜ M20x1,5	flange	flange	M10x1 ➜ M20x1,5	M10x1 ➜ M20x1,5
steel or **stainless steel**	steel	steel or **stainless steel**	die cast zinc	die cast zinc	steel	**stainless steel**
steel or **stainless steel**	steel	steel or **stainless steel**	**stainless steel**	**stainless steel**	steel	**stainless steel**
☆☆☆	☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆
€€	€	€	€€	€€	€€	€€
1 p.52	1 p.54	1 p.55	1 p.56	1 p.57	1 p.58	1 p.60

						
PITA	**SLB**	**SLBS**	**SLBW**	**PPD**	**PPF**	**BIM**
indexing pin handle T	indexing pin with button polymer	**stainless steel** knob indexing pin	indexing pin with knob at weld	indexing pin for sheet metal	indexing pin with flange	indexing pin for sheet metal
pull for unlock	pull for unlock	pull for unlock	pull for unlock	pull for unlock	pull for unlock	pull for unlock
lockable	lockable	**all stainless steel**	weldable	for thin walls	lockable	for thin walls
M12x1,5 ➜ M20x1,5	M10x1 ➜ M20x1,5	M8x1 ➜ M20x1,5	Ø5 ➜ Ø22	Ø10 ➜ Ø12	flange	M8x0,75 ➜ M10x1
steel or **stainless steel**	steel or **stainless steel**	**stainless steel**	steel or **stainless steel**	steel	steel	steel or **stainless steel**
steel or **stainless steel**	steel or **stainless steel**	**stainless steel**	steel or **stainless steel**	**stainless steel**	**stainless steel**	**stainless steel**
☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆
€€	€€	€€€	€€	€€	€€	€€
1 p.62	1 p.64	1 p.65	1 p.68	1 p.70	1 p.71	1 p.73

Smooth spring loaded plunger

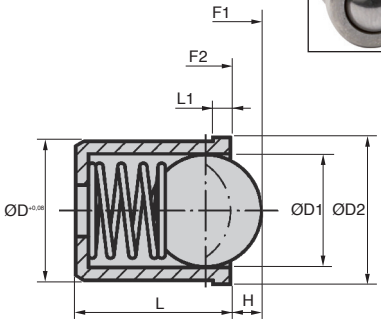
Stock Del Sta

BLM

Ball tip

- ***Plunger for positioning and locating***
- *Materials:*
  Body: Stainless steel or thermosetting plastic
  Spring: Stainless steel
  Ball: Stainless steel or Delrin





DISCOUNTS

Qty	1+	6+	20+	50+	100+	250+	400+
Disc.	List	-5%	-10%	-15%	-25%	-40%	On request

Part number	Ball	ØD	ØD1	ØD2	L	L1	H	Contact pressure initial F1 (N)	Contact pressure final F2 (N)	Weight (g)	Stock*	Price each 1 to 5
Stainless steel body												
BLM5SS	Stainless steel	5	4	5,6	6	1	1,0	4	7	0,60	✔	1,94 €
BLM6SS	Stainless steel	6	5	6,5	7	1	1,5	6	12	1,00	✔	2,07 €
BLM8SS	Stainless steel	8	6,5	8,5	9	1	1,8	6	12	2,00	✔	2,55 €
BLM10SS	Stainless steel	10	8	12,0	13,5	2,5	2,7	10	20	6,00	✔	3,30 €
BLM5P	Delrin	5	4	5,6	6	1	0,6	4	7	0,60	✔	2,24 €
BLM6P	Delrin	6	5	6,5	7	1	1,1	6	12	1,00	✔	2,29 €
BLM8P	Delrin	8	6,5	8,5	9	1	1,5	6	12	2,00	✔	2,86 €
BLM10P	Delrin	10	8	12,0	13,5	2,5	2,3	10	20	6,00	✔	3,61 €
Plastic body												
BLM5PS	Stainless steel	5	4	5,6	6	1	1,0	4	7	0,40	-	1,17 €
BLM6PS	Stainless steel	6	5	6,5	7	1	1,5	6	12	0,70	✔	1,35 €
BLM8PS	Stainless steel	8	6,5	8,5	9	1	1,8	6	12	1,50	✔	1,52 €
BLM10PS	Stainless steel	10	8	12,0	13,5	2,5	2,7	10	20	3,14	✔	2,86 €
BLM5PP	Delrin	5	4	5,6	6	1	1,2	4	7	0,35	✔	1,36 €
BLM6PP	Delrin	6	5	6,5	7	1	1,5	6	12	0,66	✔	1,47 €
BLM8PP	Delrin	8	6,5	8,5	9	1	2	6	12	1,46	✔	1,75 €
BLM10PP	Delrin	10	8	12,0	13,5	2,5	2,7	10	20	1,44	✔	3,37 €

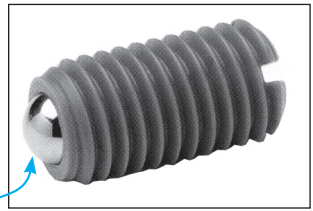
**Depending on availability - Dimensions in mm*

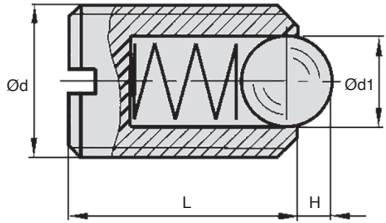
Stock Plastic spring plunger with slotted head

With ball tip

BPM-Z

- ***Positioning and locating screw***
- *Slotted set screw*
- *Working temperature : -30°C to +50°C*
- *Materials :*
  Body : plastic
  Ball : hardened stainless steel or plastic
  Spring : Stainless steel 1,4310





DISCOUNTS

Qty	1+	6+	20+	50+	100+	250+	400+
Disc.	List	-5%	-10%	-15%	-20%	-25%	On request

Part number	Ød	Ød1	L	H	Pressure (N) initial	Pressure (N) final	Stock*	Price each 1 to 5
Hardened stainless steel ball								
BPM6Z/SS	M6	3,5	14	1,0	9	13	✔	1,98 €
BPM8Z/SS	M8	5,0	16	1,5	15	30	✔	2,40 €
BPM10Z/SS	M10	6,0	19	2,0	20	40	✔	2,86 €
Plastic ball								
BPM6Z/P	M6	3,5	14	1,0	9	13	✔	2,25 €
BPM8Z/P	M8	5,0	16	1,5	15	30	✔	2,80 €
BPM10Z/P	M10	6,0	19	2,0	20	40	-	3,10 €

**Depending on availability - Dimensions in mm*

Spring plunger with slotted head

BPM

With ball tip

- **Positioning and locating screw**
- Materials:
  - **Steel version:**
    - Body steel 5.8 black oxidised
    - Ball hardened steel
    - Spring steel
  - **Stainless steel version:**
    - Body stainless steel 303
    - Ball bright hardened stainless steel 420
    - Spring stainless steel



Steel version



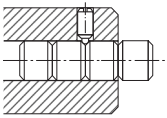
Stainless steel version

Applications

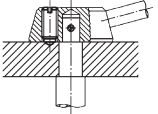
- Shaft positioning
- Locating handles and grips

See also...

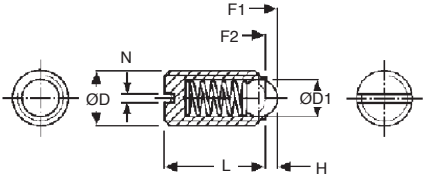
- **BSM, BPMLOK/C/Z, BSMLOK** and **BLM** spring plungers **(tome 1 p.42 to 49)**



Typical application:
adjustable column



Typical application:
positioning pin



DISCOUNTS

Qty	1+	6+	20+	50+	100+	250+	400+
Disc.	List	-5%	-10%	-15%	-25%	-40%	On request

Part number							Pressure (N)		Approx weight	Stock*		Price each 1 to 5	
Steel	Stainless steel	ØD	ØD1	L	H	N	F1 initial	F2 final	(g)	Steel	Stainless steel	Steel	Stainless steel
BPM3	BPM3SS	M3	1,5	7	0,5	0,4	1,5	3	0,2	✔	✔	2,50 €	7,05 €
BPM4	BPM4SS	M4	2,5	9	0,8	0,6	4	10	0,6	✔	✔	1,79 €	5,83 €
BPM5	BPM5SS	M5	3,0	12	0,9	0,8	6	11	0,9	✔	✔	1,79 €	5,87 €
BPM6	BPM6SS	M6	3,5	14	1,0	1,0	9	13	1,5	✔	✔	1,79 €	5,88 €
BPM8	BPM8SS	M8	5,0	16	1,5	1,2	15	30	3,5	✔	✔	2,50 €	7,80 €
BPM10	BPM10SS	M10	6,0	19	2,0	1,6	20	35	7,0	✔	✔	2,59 €	8,75 €
BPM12	BPM12SS	M12	8,0	22	2,5	2,0	30	55	10,0	✔	✔	4,11 €	10,78 €
BPM16	BPM16SS	M16	10,0	24	3,5	2,5	65	125	24,0	✔	✔	5,46 €	12,84 €
BPM20	BPM20SS	M20	12,0	30	4,5	2,5	80	160	44,3	✔	-	8,34 €	16,77 €

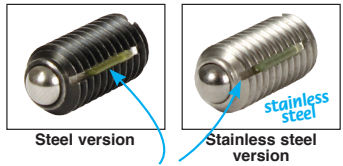
*Depending on availability - Dimensions in mm

Long-Lok slotted spring plunger

With ball tip

BPM LOK

- **Positioning and locating screw LONG-LOK anti-vibration finish**
- *Materials:*
  - **Steel version:**
    - *Body steel 5.8 black oxidised with nylon "Long Lok" threaded lock*
    - *Ball hardened steel*
    - *Spring steel*
  - **Stainless steel version:**
    - *Body stainless steel 303*
    - *Ball bright hardened stainless steel 420 with nylon "Long Lok" threaded lock*
    - *Spring stainless steel*



Steel version

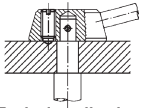
Stainless steel version

Advantages

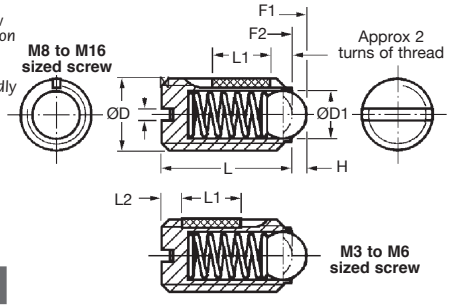
- *Vibration proof*
- *High torque required to unscrew*
- *Mounts securely in any orientation*

Applications

- *Use where plungers are repeatedly installed and removed*



Typical application:
positionning pin



Size	Screwing-in torque (Nm)	Unscrewing torque (Nm)
M3	0,10	0,25
M4	0,10	0,25
M5	0,10	0,25
M6	0,25	0,45
M8	0,40	0,60
M10	0,70	0,80
M12	1,00	1,20
M16	4,20	4,30

DISCOUNTS

Qty	1+	6+	20+	50+	100+	250+	400+
Disc.	List	-5%	-10%	-15%	-25%	-40%	On request

Part number Steel	Part number Stainless steel	ØD	$ØD_1$	L	$L_{\pm 0,5}$	H	N	Pressure (N) F_1 initial	Pressure (N) F_2 final	Stock* Steel	Stock* Stainless steel	Price each 1 to 5 Steel	Price each 1 to 5 Stainless steel
BPM3/LOK	BPM3SS/LOK	M3	1,5	7	4	0,5	0,4	1,5	3	✔	✔	8,17 €	13,53 €
BPM4/LOK	BPM4SS/LOK	M4	2,5	9	5	0,8	0,6	4,0	10	✔	✔	4,16 €	9,27 €
BPM5/LOK	BPM5SS/LOK	M5	3,0	12	6	0,9	0,8	6,0	11	✔	✔	4,30 €	9,35 €
BPM6/LOK	BPM6SS/LOK	M6	3,5	14	7	1,0	1,0	9,0	13	✔	✔	4,39 €	9,35 €
BPM8/LOK	BPM8SS/LOK	M8	5,0	16	8	1,5	1,2	15,0	30	✔	✔	5,35 €	11,93 €
BPM10/LOK	BPM10SS/LOK	M10	6,0	19	9	2,0	1,6	20,0	35	✔	✔	5,60 €	13,64 €
BPM12/LOK	BPM12SS/LOK	M12	8,0	22	10	2,5	2,0	30,0	55	✔	-	15,51 €	22,89 €
BPM16/LOK	BPM16SS/LOK	M16	10,0	24	14	3,5	2,5	65,0	125	-	-	19,87 €	28,71 €

**Depending on availability - Dimensions in mm*

Stainless steel slotted spring plunger

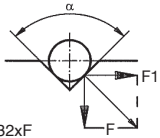
BPMc — With ceramic ball tip

- **Positioning and locating screw**
- Materials:
  Body: Stainless steel 303, natural finish
  Spring: Stainless steel
  Ball: Ceramic (Si3N4)

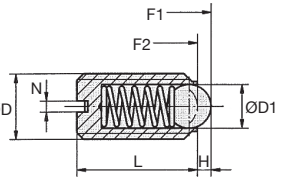
Info

- Use of a SI3N4 ceramic offers high resistance and grip, is hard wearing and is chemically resistant.





α = 60°, F1 = 1,732xF
α = 90°, F1 = F
α = 120°, F1= 0,577xF



DISCOUNTS

Qty	1+	6+	20+	50+	100+	250+	400+
Disc.	List	-5%	-10%	-15%	-30%	-50%	On request

Part number	ØD	ØD1	L	H	N	Pressure (N) Initial F1	Pressure (N) Final F2	Weight (g)	Price each 1 to 5
BPM5SS/C	M5	3	12	0,9	0,8	6	11	0,9	6,83 €
BPM6SS/C	M6	3,5	14	1	1	9	13	1,5	6,83 €
BPM8SS/C	M8	5	16	1,5	1,2	15	30	3,5	9,26 €
BPM10SS/C	M10	6	19	2	1,6	20	35	7	10,54 €
BPM12SS/C	M12	8	22	2,5	2	30	55	10	16,29 €
BPM16SS/C	M16	10	24	3,5	2,5	65	125	24	20,41 €

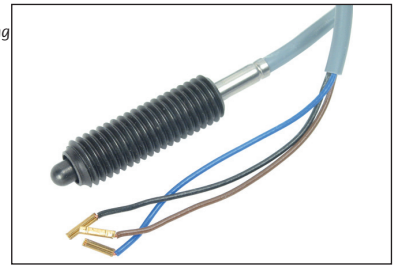
Dimensions in mm

Spring plunger with status sensor

Electrical limit switch

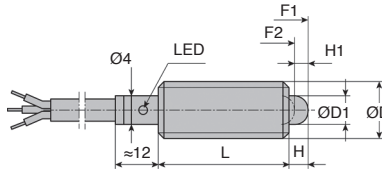
CFC

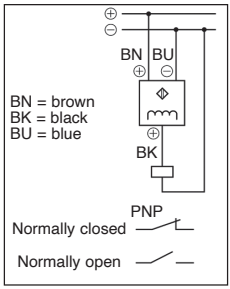
- ***Threaded proximity switch***
- *Inductive limit switch for position sensing*
- *Electrical characteristics:*
- *Supply voltage 10 to 30V dc*
- *Max switching current 200mA*
- *Working temperature: -25°C to +70°C*
- *Ingress protection: IP67*
- *Connecting cable: Ø3.5mm, length 2m*
- *Materials:*
  - *Body: blackened steel*
  - *Spring: steel*
  - *Pin: Hardened steel*



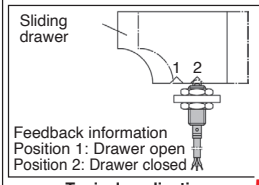
Safety

- *This position switch is not suitable or use in personnel safety applications*





Wiring diagram



Typical application

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-5%	On request

Part number	ØD	ØD1	L	H	H1	L1	Contact pressure (N) initial	Contact pressure (N) final	Stock*	Price each 1 to 5
Type O - contact normally open										
CFC-M6-O	M6	2,5	27,0	3	2	0,5	6	20	✔	83,80 €
CFC-M8-O	M8	4,0	28,5	3	2	0,7	15	30	✔	84,76 €
CFC-M10-O	M10	4,5	32,0	4	3	1,0	9	35	-	89,05 €
Type O - contact normally closed										
CFC-M6-F	M6	2,5	3	3	2	1,2	6	20	✔	83,80 €
CFC-M8-F	M8	4,0	3	3	2	1,5	15	30	-	84,76 €
CFC-M10-F	M10	4,5	4	4	3	2,0	9	35	-	89,05 €

**Depending on availability - Dimensions in mm*

Spring plunger with internal hexagonal socket

Stock*

BSM
BSMP
BSMSS

With pressure pin

stainless steel



Steel body and pin



Steel body plastic pin

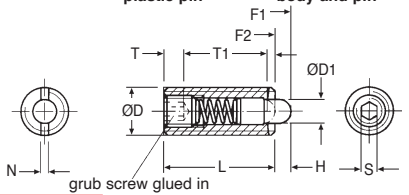


Stainless steel body and pin

- ***Screws for positionig and indexing***
- *Three versions to choose from*
- *Materials:*
  Body: blackened steel (class 5.8) or stainless steel (303)
  Pin: hardened steel, hardened stainless steel or plastic

Uses

- *Locating*
- *Retaining*



DISCOUNTS

Qty	1+	6+	20+	50+	100+	250+	400+
Disc.	List	-5%	-10%	-15%	-30%	-50%	On request

Part number	ØD	$ØD_1$	L	H	T	T_1	N	S	Pressure (N) F1 initial	Pressure (N) F2 final	Stock*	Price each 1 to 5
Steel body / steel pin												
BSM3	M3	1,0	10	1,5	1,5	1,0	0,4	0,7	0,5	3	✔	11,07 €
BSM4	M4	1,5	15	1,5	2,0	0,6	0,6	1,3	5	16	✔	8,45 €
BSM5	M5	2,4	18	2,3	2,0	0,8	0,8	1,5	6	20	✔	8,33 €
BSM6	M6	2,7	20	2,5	2,5	1,0	1,0	2,0	7	20	✔	8,62 €
BSM8	M8	3,5	22	3,0	3,0	1,4	1,2	2,5	9	35	✔	10,11 €
BSM10	M10	4,0	22	3,0	3,5	1,4	1,6	3,0	9	35	✔	11,36 €
BSM12	M12	6,0	28	4,0	5,0	2,0	2,0	4,0	10	55	✔	14,82 €
BSM16	M16	7,5	32	5,0	6,0	2,5	2,5	5,0	45	100	✔	16,39 €
BSM20	M20	10,0	40	7,0	8,0	3,0	2,5	6,0	60	120	✔	19,30 €
BSM24	M24	12,0	52	10,0	10,0	3,0	2,5	8,0	80	160	-	31,17 €
Steel body / plastic pin												
BSM4P	M4	1,5	15	1,5	2,0	1,0	0,6	1,3	5	16	✔	9,98 €
BSM5P	M5	2,4	18	2,3	2,0	0,6	0,8	1,5	6	20	✔	9,55 €
BSM6P	M6	2,7	20	2,5	2,5	0,8	1,0	2,0	7	20	✔	9,98 €
BSM8P	M8	3,5	22	3,0	3,0	1,0	1,2	2,5	9	35	✔	11,54 €
BSM10P	M10	4,0	22	3,0	3,5	1,4	1,6	3,0	9	35	-	13,74 €
BSM12P	M12	6,0	28	4,0	5,0	1,4	2,0	4,0	10	55	-	17,43 €
BSM16P	M16	7,5	32	5,0	6,0	2,0	2,5	5,0	45	100	-	21,35 €
Stainless steel body / stainless steel pin												
BSM5SS	M5	2,4	18	2,3	2,0	0,8	0,8	1,5	5	17	-	24,39 €
BSM6SS	M6	2,7	20	2,5	2,5	1,0	1,0	2,0	6	17	✔	24,33 €
BSM8SS	M8	3,5	22	3,0	3,0	1,4	1,2	2,5	7	29	✔	27,17 €
BSM10SS	M10	4,0	22	3,0	3,5	1,4	1,6	3,0	8	31	-	37,13 €
BSM12SS	M12	6,0	28	4,0	5,0	2,0	2,0	4,0	10	47	✔	50,26 €

**Depending on availability - Dimensions in mm*

Long-Lok spring plunger

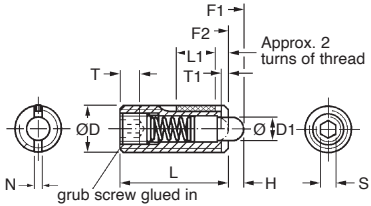
With pressure pin

BSMLOK
BSMSSLOK
BSMPLOK

- ***Screw for positioning and indexing***
- ***Spring plunger with LONG-LOK anti-vibration treatment***
- *For locating and positioning*
- *Hexagonal socket*
- *Materials:*
  Body: blackened steel (class 5.8) or stainless steel (303)
  Pin: hardened steel, hardened stainless steel or plastic
  LONG-LOK nylon thread
- *Finish:*
  Body: black oxide (steel) or polished (stainless steel)

Size	Screwing in torque (Nm)	Unscrewing torque (Nm)
M5	0,10	0,25
M6	0,25	0,45
M8	0,40	0,60
M10	0,70	0,80
M12	1,00	1,20
M16	4,20	4,30





Advantages

- *Vibration proof*
- *High torque required to unscrew*
- *Mounts securely in any orientation*

Application

- *Use where plungers are repeatedly installed and removed*

DISCOUNTS

Qty	1+	6+	20+	50+	100+	250+	400+
Disc.	List	-5%	-10%	-15%	-20%	-25%	On request

Part number	ØD	ØD1	L	L‡ 0,5	H	T	T1	N	S	Pressure (N) F1 initial	Pressure (N) F2 final	Stock*	Price each 1 to 5
Steel body / steel pin													
BSM5/LOK	M5	2,4	18	7	2,3	2,0	0,8	0,8	1,5	6	20	✔	4,61 €
BSM6/LOK	M6	2,7	20	7	2,5	2,5	1,0	1,0	2,0	7	20	✔	4,71 €
BSM8/LOK	M8	3,5	22	8	3,0	3,0	1,4	1,2	2,5	9	35	✔	5,48 €
BSM10/LOK	M10	4,0	22	9	3,0	3,5	1,4	1,6	3,0	9	35	✔	6,02 €
BSM12/LOK	M12	6,0	28	10	4,0	5,0	2,0	2,0	4,0	10	55	✔	9,77 €
BSM16/LOK	M16	7,5	32	14	5,0	6,0	2,5	2,5	5,0	45	100	-	13,66 €
Stainless steel body / stainless steel pin													
BSM5SS/LOK	M5	2,4	18	7	2,3	2,0	0,8	0,8	1,5	5	17	✔	10,44 €
BSM6SS/LOK	M6	2,7	20	7	2,5	2,5	1,0	1,0	2,0	6	17	✔	10,44 €
BSM8SS/LOK	M8	3,5	22	8	3,0	3,0	1,4	1,2	2,5	7	29	-	11,70 €
BSM10SS/LOK	M10	4,0	22	9	3,0	3,5	1,4	1,6	3,0	8	31	-	13,54 €
BSM12SS/LOK	M12	6,0	28	10	4,0	5,0	2,0	2,0	4,0	10	47	✔	19,64 €
Steel body / plastic pin													
BSM5P/LOK	M5	2,4	18	7	2,3	2,0	0,6	0,8	1,5	6	20	✔	5,09 €
BSM6P/LOK	M6	2,7	20	7	2,5	2,5	0,8	1,0	2,0	7	20	✔	5,38 €
BSM8P/LOK	M8	3,5	22	8	3,0	3,0	1,0	1,2	2,5	9	35	✔	6,12 €
BSM10P/LOK	M10	4,0	22	9	3,0	3,5	1,4	1,6	3,0	9	35	-	7,06 €
BSM12P/LOK	M12	6,0	28	10	4,0	5,0	1,4	2,0	4,0	10	55	-	10,92 €
BSM16P/LOK	M16	7,5	32	14	5,0	6,0	2,0	2,5	5,0	45	100	-	24,73 €

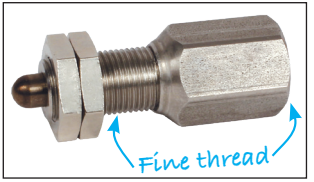
**Depending on availability - Dimensions in mm*

Spring operated plunger, fine thread

PDD

With sensor adaptor

- ***Spring plunger with sensor adaptor***
- *specially designed for flush fitting inductive proximity sensors.*
- *Robust, compact design with fine pitch thread*
- *Switching point is adjusted via the position of the sensor*
- *Sensitivity of switching point can be adjusted over the entire stroke.*
- *Materials:*
  Body and pin: Stainless steel 1.4305
  Spring: Stainless steel
  Nut: Nickel plated brass (ISO 4035)

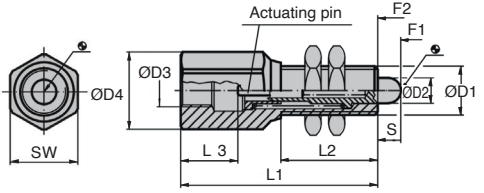


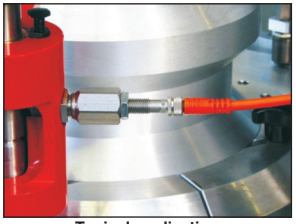
Application

- *Positioning with built in position detection*

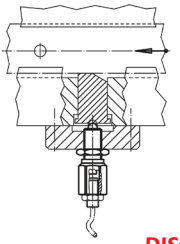
Info

- *Detector not supplied*





Typical application



DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-5%	On request

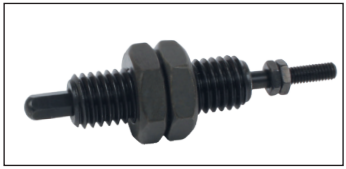
Part number	ØD1	ØD2	ØD3	ØD4	L1	L2	L3	S	SW	Pressure F1(N)	Pressure F2(N)	Weight (g)	Price each 1 to 5
PDD-M12C-M8C	M12x1	6,2	M8x1	19	44	20	15,5	5,6	17	24	41,5	57	66,29 €
PDD-M16C-M12C	M16x1	8,5	M12x1	21,5	65	32	20	7,5	19	32,5	65,5	103	80,11 €

Dimensions in mm

Spring operated plunger

Non-rotating detector shaft — PDD

- ***An actuating plunger suitable for use with a rear mounted detector***
- *Can be used with any type of detector*
- *Materials:*
  Body: Burnished steel
  Spring: Stainless steel
  Nut: Blackened steel (ISO 4035)
  Detector shaft: Black nitride steel

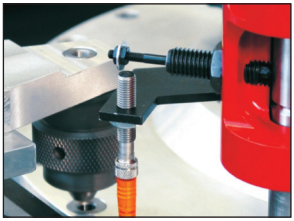


Application

- *Plunger for use in tools where detection is required*

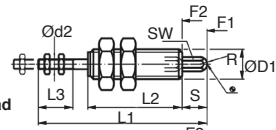
Info

- *Detector not supplied*

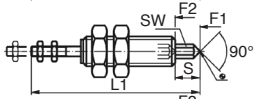


Typical application

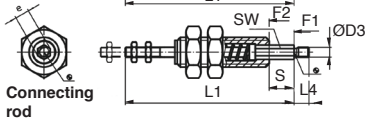
Round head



Pointed head



Connecting rod



DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-5%	On request

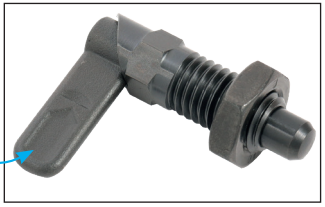
Part number	ØD1	S	ØD2	ØD3	E	L1	L2	L3	L4	R	SW	Pressure F1(N)	Pressure F2(N)	Weight (g)	Price each 1 to 5
With round headed end															
PDD-M8-R	M8	6	M2,5	-	3,5	50	32	9	-	1.75	3	4,1	7,6	15	35,52 €
PDD-M10-R	M10	8	M3	-	4,6	59	35	11	-	2,3	4	5	9	28	36,39 €
PDD-M12-R	M12	10	M4	-	5,8	68	38	14	-	2,9	5	5,1	11	44	37,83 €
PDD-M16-R	M16	12	M5	-	6,9	78	42	16	-	3,5	6	7,5	13,8	87	48,83 €
With pointed end															
PDD-M8-P	M8	6	M2,5	-	3,5	50	32	9	-	-	3	4,1	7,6	14	35,52 €
PDD-M10-P	M10	8	M3	-	4,6	59	35	11	-	-	4	5	9	29	36,39 €
PDD-M12-P	M12	10	M4	-	5,8	68	38	14	-	-	5	5,1	11	44	37,83 €
PDD-M16-P	M16	12	M5	-	6,9	78	42	16	-	-	6	7,5	13,8	88	48,83 €
With a threaded connection															
PDD-M8-F	M8	6	M2,5	M2,5	3,5	50	32	9	4	-	3	4,1	7,6	15	35,52 €
PDD-M10-F	M10	8	M3	M3	4,6	59	35	11	5	-	4	5	9	29	36,65 €
PDD-M12-F	M12	10	M4	M4	5,8	68	38	14	6	-	5	5,1	11	44	38,12 €
PDD-M16-F	M16	12	M5	M5	6,9	78	42	16	7	-	6	7,5	13,8	89	48,83 €

Dimensions in mm

Lockable indexing plunger

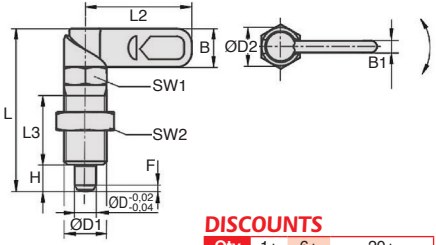
DIV — Threaded body M12-M20X1.5

- **With revolving latch**
- Materials:
  Body: Blackened steel (class 5.8)
  Handle: Powder coated steel
  Pin: Hardened steel
- Locking nut supplied



Uses

- Indexing plungers are used when the indexing pin must be fully retracted.
- Turn the lever through 180° to insert the plunger
- A small pin allows blocking in the open position



DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	ØD	ØD1	ØD2	L	L1	L3	B	B1	H	Fx30°	SW1	SW2	Spring strength initial F1(N)	Spring strength final F2(N)	Stock*	Price each 1 to 5
DIV12-5	5	M12	12	47,4	30	19	10,8	3,6	8	1,8	12	19	8	15	✔	20,08 €
DIV12-6	6	M12	12	47,4	30	19	10,8	3,6	8	1,8	12	19	8	15	✔	20,08 €
DIV12-8	8	M12	12	47,4	30	19	10,8	3,6	8	2,3	12	19	8	15	✔	20,08 €
DIV12X1.5-5	5	M12x1,5	12	47,4	30	19	10,8	3,6	8	1,3	12	19	8	15	-	20,08 €
DIV12X1.5-6	6	M12x1,5	12	47,4	30	19	10,8	3,6	8	1,8	12	19	8	15	-	20,08 €
DIV12X1.5-8	8	M12x1,5	12	47,4	30	19	10,8	3,6	8	2,3	12	19	8	15	-	20,08 €
DIV16-6	6	M16	16	61,2	40	26	14,4	4,8	10	1,8	16	24	15	35	✔	24,05 €
DIV16-8	8	M16	16	61,2	40	26	14,4	4,8	10	2,3	16	24	15	35	✔	24,05 €
DIV16-10	10	M16	16	61,2	40	26	14,4	4,8	10	2,8	16	24	15	35	✔	24,05 €
DIV16X1.5-6	6	M16x1,5	16	61,2	40	26	14,4	4,8	10	1,8	16	24	15	35	-	24,05 €
DIV16X1.5-8	8	M16x1,5	16	61,2	40	26	14,4	4,8	10	2,3	16	24	15	35	-	24,05 €
DIV16X1.5-10	10	M16x1,5	16	61,2	40	26	14,4	4,8	10	2,8	16	24	15	35	-	24,05 €
DIV20-8	8	M20	20	71,0	50	30	18,0	6,0	12	2,3	20	30	20	60	-	27,46 €
DIV20-10	10	M20	20	71,0	50	30	18,0	6,0	12	2,8	20	30	20	60	✔	27,46 €
DIV20-12	12	M20	20	71,0	50	30	18,0	6,0	12	3,0	20	30	20	60	✔	27,46 €
DIV20x1.5-8	8	M20x1,5	20	71,0	50	30	18,0	6,0	12	2,3	20	30	20	60	-	27,46 €
DIV20x1.5-10	10	M20x1,5	20	71,0	50	30	18,0	6,0	12	2,8	20	30	20	60	-	27,46 €
DIV20x1.5-12	12	M20x1,5	20	71,0	50	30	18,0	6,0	12	3,0	20	30	20	60	-	27,46 €

*Depending on availability - Dimensions in mm

Stainless steel indexing plunger

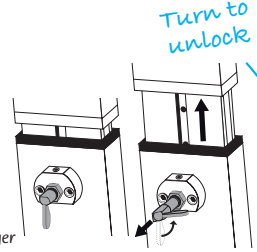
Threaded body M12-M20X1.5

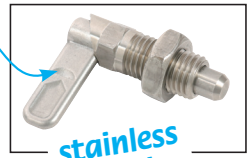
DIVss

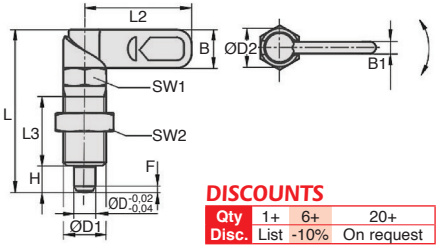
- **With revolving latch**
- Material:
  Stainless steel
- Locking nut supplied

Uses

- Indexing plungers are used when the indexing pin must be fully retracted.
- Turn the lever through 180° to insert the plunger
- A small pin allows blocking







DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	ØD	ØD1	ØD2	L	L1	L3	B	B1	H	Fx30°	SW1	SW2	Spring strength initial F1(N)	Spring strength final F2(N)	Stock*	Price each 1 to 5
DIV12-5/SS	5	M12	12	47,4	30	19	10,8	3,6	8	1,3	12	19	8	15	✔	27,26 €
DIV12-6/SS	6	M12	12	47,4	30	19	10,8	3,6	8	1,8	12	19	8	15	✔	27,26 €
DIV12-8/SS	8	M12	12	47,4	30	19	10,8	3,6	8	2,3	12	19	8	15	✔	27,26 €
DIV12X1.5-5/SS	5	M12x1,5	12	47,4	30	19	10,8	3,6	8	1,3	12	19	8	15	-	27,26 €
DIV12X1.5-6/SS	6	M12x1,5	12	47,4	30	19	10,8	3,6	8	1,8	12	19	8	15	-	27,26 €
DIV12X1.5-8/SS	8	M12x1,5	12	47,4	30	19	10,8	3,6	8	2,3	12	19	8	15	-	27,26 €
DIV16-6/SS	6	M16	16	61,2	40	26	14,4	4,8	10	1,8	16	24	15	35	-	30,58 €
DIV16-8/SS	8	M16	16	61,2	40	26	14,4	4,8	10	2,3	16	24	15	35	✔	30,58 €
DIV16-10/SS	10	M16	16	61,2	40	26	14,4	4,8	10	2,8	16	24	15	35	✔	30,58 €
DIV16X1.5-6/SS	6	M16x1,5	16	61,2	40	26	14,4	4,8	10	1,8	16	24	15	35	-	30,58 €
DIV16X1.5-8/SS	8	M16x1,5	16	61,2	40	26	14,4	4,8	10	2,3	16	24	15	35	-	30,58 €
DIV16X1.5-10/SS	10	M16x1,5	16	61,2	40	26	14,4	4,8	10	2,8	16	24	15	35	-	30,58 €
DIV20-8/SS	8	M20	20	71,0	50	30	18,0	6,0	12	2,3	20	30	20	60	-	38,05 €
DIV20-10/SS	10	M20	20	71,0	50	30	18,0	6,0	12	2,8	20	30	20	60	✔	38,05 €
DIV20-12/SS	12	M20	20	71,0	50	30	18,0	6,0	12	3,0	20	30	20	60	✔	38,05 €
DIV20x1.5-8/SS	8	M20x1,5	20	71,0	50	30	18,0	6,0	12	2,3	20	30	20	60	-	38,05 €
DIV20x1.5-10/SS	10	M20x1,5	20	71,0	50	30	18,0	6,0	12	2,8	20	30	20	60	-	38,05 €
DIV20x1.5-12/SS	12	M20x1,5	20	71,0	50	30	18,0	6,0	12	3,0	20	30	20	60	✔	38,05 €

*Depending on availability - Dimensions in mm

Lever operated indexing plunger

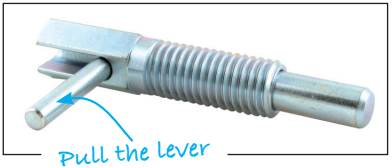
Stock

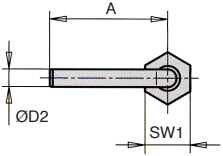
DIL — Threaded body M6-M16

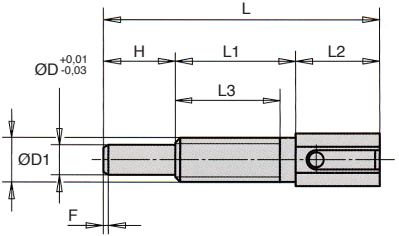
- **Locking indexing plunger**
- Material: steel (class 5.8)
- Finish: blue zinc plated

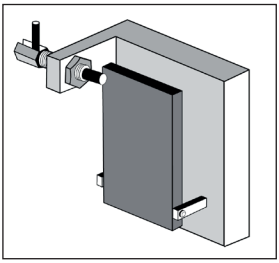
Info.

- Indexing plunger can be used where lateral movement needs to be restricted
- Raising the lever unlocks the bolt

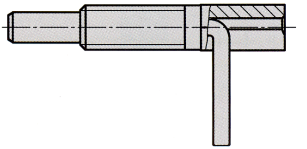








Typical application: locking



DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	ØD	ØD1	ØD2	L	L1	L2	L3	H	A	SW1	Fx30°	Spring strength initial F1 (N)	Spring strength final F2 (N)	Tightening Force max (Nm)	Stock*	Price each 1 to 5
DIL6	4	M6	2,3	41,5	20,0	12,0	17,0	9,5	15,5	6	0,7	3	10	1,6	✔	7,68 €
DIL10	6	M10	3,5	65,0	33,5	17,5	30,0	14,0	22,9	10	1,1	4	16	10,0	✔	8,73 €
DIL12	8	M12	4,7	73,0	31,8	22,2	28,0	19,0	31,2	12	1,3	4	22	13,0	✔	10,02 €
DIL16	10	M16	4,7	102,5	50,5	27,0	44,5	25,0	32,7	16	1,6	4	23	42,0	✔	13,89 €

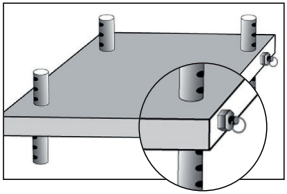
*Depending on availability - Dimensions in mm

- ***Materials:***
  Steel version
  Body : steel (class 5.8)
  Pin: hardened steel
  Stainless steel version
  Body: stainless steel 303
  Pin: Hardened stainless steel 420
  Ring: Stainless steel 301
- *Finish: Steel version*
  Pin: hardened, ground and blackened
  Stainless steel version
  Pin : hardened , polished and ground

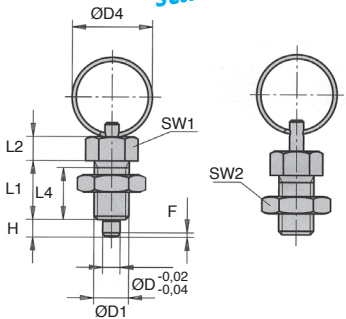


Info.

- *Index plungers are used whenever lateral movement needs to blocked. Once released, another position can be set.*
- *The ring allows the unlocking action to be automated; by using pneumatic cylinder for example or some other remote control mechanism.*



Typical application



DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	ØD	ØD1	ØD4	L1	L2	L4	H	SW1	SW2	Fx30°	Spring strength initial F1 (N)	Spring strength final F2 (N)	Stock*	Price each 1 to 5
Steel, hardened steel pin														
DIA8-4	4	M8x1,0	15	15	6	13	4	10	13	1,0	6	12	✔	11,95 €
DIA10-5	5	M10x1,0	23	17	7	15	5	13	17	1,3	5	12	✔	11,35 €
DIA12-6	6	M12x1,5	23	20	8	17	6	14	19	1,8	6	14	✔	12,63 €
DIA16-8	8	M16x1,5	28	26	10	23	8	19	24	2,3	15	35	✔	16,88 €
DIA20-10	10	M20x1,5	28	28	12	25	10	22	30	2,8	15	40	✔	23,94 €
Stainless steel, hardened stainless steel pin														
DIA8-4/SS	4	M8x1,0	15	15	6	13	4	10	13	1,0	6	12	✔	20,89 €
DIA10-5/SS	5	M10x1,0	23	17	7	15	5	13	17	1,3	5	12	✔	19,92 €
DIA12-6/SS	6	M12x1,5	23	20	8	17	6	14	19	1,8	6	14	✔	23,39 €
DIA16-8/SS	8	M16x1,5	28	26	10	23	8	19	24	2,3	15	35	✔	31,24 €
DIA20-10/SS	10	M20x1,5	28	28	12	25	10	22	30	2,8	15	40	-	51,66 €

**Depending on availability - Dimensions in mm*

Indexing plunger

PPG
PPH

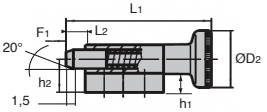
With horizontal mounting flange

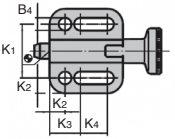
- ***Mounting flange with screw holes***
- *Materials:*
  Body: Die cast zinc with black plastic coating
  Pin: Stainless steel i.4305
  Button : PA6 with black matt finish
- *Working temp range: -30 /+80 °C*



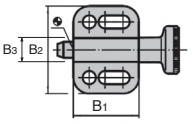
Info

- *For the version that locks in the open position, the button is pulled, turned through 90°, it will be retained by a notch.*

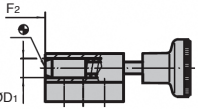




Locking version



Version without locking



IN STOCK* Otherwise contact us

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-5%	-10%	On request

Part number	Locking	ØD1	ØD2	B1	B2	B3	B4 (-0,2)	h1	h2
PPG4-16-22	Without	4	12	16,5	22	6	3,3	4	7
PPG5-22-28	Without	5	16	22	28	8	4,3	4,5	9,5
PPG6-27-32	Without	6	18	27,5	32	10	5,4	5	10,5
PPG8-33-34	Without	8	21	33	34	12	5,4	6	12,5
PPH4-19-22	With	4	12	19	22	6	3,3	4	7
PPH5-25-28	With	5	16	25,5	28	8	4,3	4,5	9,5
PPH6-30-32	With	6	18	30,5	32	10	5,4	5	10,5
PPH8-37-34	With	8	21	37,5	34	12	5,4	6	12,5

Part number	K1 (+/-0,05)	K2	K3	K4	L1	L2	Pressure F1 (N)	Pressure F2 (N)	Weight (g)	Price each 1 to 5
PPG4-16-22	14	4	8	4,5	30,5	4	3	12	11	10,09 €
PPG5-22-28	18	5	10	7	40	5	5	24	20	10,84 €
PPG6-27-32	21	5,5	12	10	49	6	5	21	37	12,44 €
PPG8-33-34	23	5,5	12	15,5	59	8	6	22	61	14,00 €
PPH4-19-22	14	4	8	4,5	33	4	3	12	10	10,18 €
PPH5-25-28	18	5	10	10,5	43,5	5	5	24	26	10,84 €
PPH6-30-32	21	5,5	12	13	52	6	5	21	40	12,44 €
PPH8-37-34	23	5,5	12	20	63,5	8	6	22	67	14,11 €

**Depending on availability - Dimensions in mm*

Indexing plunger with pull ring

With horizontal mounting flange

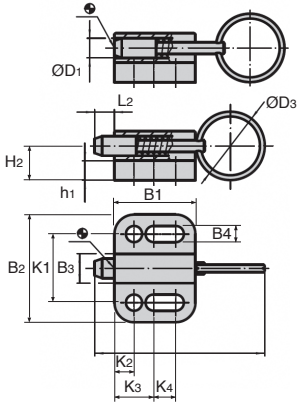
PPJ

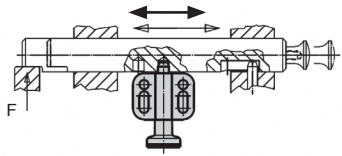
- **Mounting flange with screw holes**
- Materials:
  Body: Die cast zinc with black plastic coating
  Pin: Stainless steel 1.4305
  Pull ring: Stainless steel 1.4305
- Working temp range: -30 /+100 °C



Info

- Thanks to the pull ring, it is possible to automate the action of the index plunger with using a pneumatic actuator or some other remote control system.





Typical application

IN STOCK*
Otherwise contact us

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-5%	-10%	On request

Part number	Locking	ØD1	ØD3	B1	B2	B3	B4 (-0,2)	h1	h2
PPJ4-16-22	Without	4	14	16,5	22	6	3,3	4	7
PPJ5-22-28	Without	5	18	22	28	8	4,3	4,5	9,5
PPJ6-27-32	Without	6	24	27,5	32	10	5,4	5	10,5
PPJ8-33-34	Without	8	30	33	34	12	5,4	6	12,5

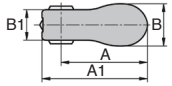
Part number	K1 (+/-0,05)	K2	K3	K4	L1	L2	Pressure F1 (N)	Pressure F2 (N)	Weight (g)	Price each 1 to 5
PPJ4-16-22	14	4	8	4,5	34,5	4	3	12	10	9,62 €
PPJ5-22-28	18	5	10	7	45	5	5	24	20	9,99 €
PPJ6-27-32	21	5,5	12	10	57,5	6	5	21	40	11,26 €
PPJ8-33-34	23	5,5	12	15,5	71	8	6	22	58	12,14 €

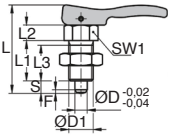
*Depending on availability - Dimensions in mm

Indexing plunger with cam

DILCG — Steel - Black thermoplastic

- ***Indexing plunger with cam lever***
- *The lever makes handling quick and easy*
- *Materials*
  - *Threaded sleeve and locking pin in free-cutting steel*
  - *Handle in glass-fibre reinforced thermoplastic PPA (high temperature resistant)*
- *Operating temperature 160°C (250°C peak)*

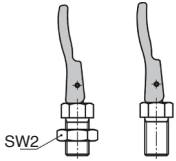






Advantages

- *Quick and easy to use*
- *Suitable for high temperature applications*
- *With integrated locking function*



With or without nut

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	L	L1	L2	L3	SW1	SW2	Fx30°	Spring force initial pressure F1 (N)	Spring force initial pressure F2 (N)
Without nut									
DILC10-41A/G	39	17	7	15	13	-	1,3	5	12
DILC12-41A/G	44	20	8	17	14	-	1,8	6	14
DILC16-68A/G	56,9	26	10	23	19	-	2,3	15	35
DILC20-68A/G	62,9	28	12	25	22	-	2,8	15	34
With nut									
DILC10-41B/G	39	17	7	15	13	17	1,3	5	12
DILC12-41B/G	44	20	8	17	14	19	1,8	6	14
DILC16-68B/G	56,9	26	10	23	19	24	2,3	15	35
DILC20-68B/G	62,9	28	12	25	22	30	2,8	15	34

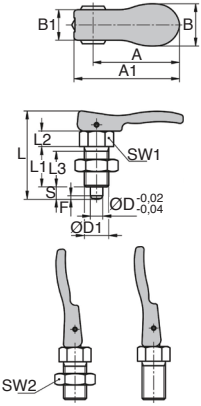
Part number	A	A1	B	B1	ØD	ØD1	Stroke S	Price each 1 to 5
Without nut								
DILC10-41A/G	31,7	41,7	17,8	12,9	5	M10x1	5	15,33 €
DILC12-41A/G	31,6	41,7	17,8	12,9	6	M12x1,5	6	17,03 €
DILC16-68A/G	55,5	67,8	26,9	19,4	8	M16x1,5	8	20,33 €
DILC20-68A/G	53,4	67,8	26,9	19,4	10	M20x1,5	10	33,06 €
With nut								
DILC10-41B/G	31,7	41,7	17,9	12,9	5	M10x1	5	15,55 €
DILC12-41B/G	31,6	41,7	17,9	12,9	6	M12x1,5	6	17,28 €
DILC16-68B/G	55,5	67,8	26,9	19,4	8	M16x1,5	8	20,85 €
DILC20-68B/G	53,4	67,8	26,9	19,4	10	M20x1,5	10	33,71 €

Dimensions in mm

- ***Indexing plunger with cam lever***
- *The lever makes handling quick and easy*
- *Materials*
  - *Threaded sleeve and locking pin in free-cutting steel*
  - *Handle in glass-fibre reinforced thermoplastic PPA (high temperature resistant) (red traffic RAL3020)*
- *Operating temperature 160°C (250°C peak)*

Advantages

- *Quick and easy to use*
- *Suitable for high temperature applications*
- *With integrated locking function*



With or without nut



DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	L	L1	L2	L3	SW1	SW2	Fx30°	Spring force initial pressure F1 (N)	F2 (N)
Without nut									
DILC10-41A/R	39	17	7	15	13	-	1,3	5	12
DILC12-41A/R	44	20	8	17	14	-	1,8	6	14
DILC16-68A/R	56,9	26	10	23	19	-	2,3	15	35
DILC20-68A/R	62,9	28	12	25	22	-	2,8	15	34
With nut									
DILC10-41B/R	39	17	7	15	13	17	1,3	5	12
DILC12-41B/R	44	20	8	17	14	19	1,8	6	14
DILC16-68B/R	56,9	26	10	23	19	24	2,3	15	35
DILC20-68B/R	62,9	28	12	25	22	30	2,8	15	34

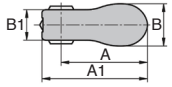
Part number	A	A1	B	B1	ØD	ØD1	Stroke S	Price each 1 to 5
Without nut								
DILC10-41A/R	31,7	41,7	17,8	12,9	5	M10x1	5	15,33 €
DILC12-41A/R	31,6	41,7	17,8	12,9	6	M12x1,5	6	17,03 €
DILC16-68A/R	55,5	67,8	26,9	19,4	8	M16x1,5	8	20,33 €
DILC20-68A/R	53,4	67,8	26,9	19,4	10	M20x1,5	10	33,06 €
With nut								
DILC10-41B/R	31,7	41,7	17,9	12,9	5	M10x1	5	15,55 €
DILC12-41B/R	31,6	41,7	17,9	12,9	6	M12x1,5	6	17,28 €
DILC16-68B/R	55,5	67,8	26,9	19,4	8	M16x1,5	8	20,85 €
DILC20-68B/R	53,4	67,8	26,9	19,4	10	M20x1,5	10	33,71 €

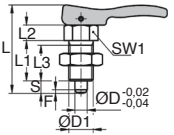
Dimensions in mm

Indexing plunger with cam

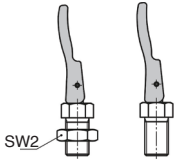
DILCGSS Stainless steel - Black thermoplastic

- ***Indexing plunger with cam lever***
- *The lever makes handling quick and easy*
- *Materials*
  Threaded sleeve and locking pin in 303 stainless steel
  Handle in glass-fibre reinforced thermoplastic PPA (high temperature resistant)
- *Operating temperature 160°C (250°C peak)*









With or without nut

Advantages

- *Quick and easy to use*
- *Suitable for high temperature applications*
- *With integrated locking function*

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	L	L1	L2	L3	SW1	SW2	Fx30°	Spring force initial pressure F1 (N)	Spring force initial pressure F2 (N)
Without nut									
DILC10-41A/G/SS	39	17	7	15	13	-	1,3	5	12
DILC12-41A/G/SS	44	20	8	17	14	-	1,8	6	14
DILC16-68A/G/SS	56,9	26	10	23	19	-	2,3	15	35
DILC20-68A/G/SS	62,9	28	12	25	22	-	2,8	15	34
With nut									
DILC10-41B/G/SS	39	17	7	15	13	17	1,3	5	12
DILC12-41B/G/SS	44	20	8	17	14	19	1,8	6	14
DILC16-68B/G/SS	56,9	26	10	23	19	24	2,3	15	35
DILC20-68B/G/SS	62,9	28	12	25	22	30	2,8	15	34

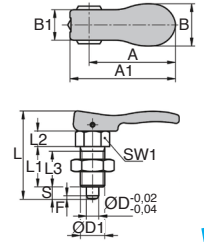
Part number	A	A1	B	B1	ØD	ØD1	Stroke S	Price each 1 to 5
Without nut								
DILC10-41A/G/SS	31,7	41,7	17,8	12,9	5	M10x1	5	22,34 €
DILC12-41A/G/SS	31,6	41,7	17,8	12,9	6	M12x1,5	6	26,41 €
DILC16-68A/G/SS	55,5	67,8	26,9	19,4	8	M16x1,5	8	35,83 €
DILC20-68A/G/SS	53,4	67,8	26,9	19,4	10	M20x1,5	10	69,11 €
With nut								
DILC10-41B/G/SS	31,7	41,7	17,9	12,9	5	M10x1	5	23,64 €
DILC12-41B/G/SS	31,6	41,7	17,9	12,9	6	M12x1,5	6	27,86 €
DILC16-68B/G/SS	55,5	67,8	26,9	19,4	8	M16x1,5	8	38,04 €
DILC20-68B/G/SS	53,4	67,8	26,9	19,4	10	M20x1,5	10	70,39 €

Dimensions in mm

Indexing plunger with cam

Stainless steel - Red thermoplastic DILCRSS

- ***Indexing plunger with cam lever***
- *The lever makes handling quick and easy*
- *Materials*
  Threaded sleeve and locking pin in 303 stainless steel
  Handle in glass-fibre reinforced thermoplastic PPA (high temperature resistant)
- *Operating temperature 160°C (250°C peak) (red traffic RAL3020)*
- *Operating temperature 160°C (250°C peak)*



With or without nut



Advantages

- *Quick and easy to use*
- *Suitable for high temperature applications*
- *With integrated locking function*

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	L	L1	L2	L3	SW1	SW2	Fx30°	Spring force initial pressure F1 (N)	F2 (N)
Without nut									
DILC10-41A/R/SS	39	17	7	15	13	-	1,3	5	12
DILC12-41A/R/SS	44	20	8	17	14	-	1,8	6	14
DILC16-68A/R/SS	56,9	26	10	23	19	-	2,3	15	35
DILC20-68A/R/SS	62,9	28	12	25	22	-	2,8	15	34
With nut									
DILC10-41B/R/SS	39	17	7	15	13	17	1,3	5	12
DILC12-41B/R/SS	44	20	8	17	14	19	1,8	6	14
DILC16-68B/R/SS	56,9	26	10	23	19	24	2,3	15	35
DILC20-68B/R/SS	62,9	28	12	25	22	30	2,8	15	34

Part number	A	A1	B	B1	ØD	ØD1	Stroke S	Price each 1 to 5
Without nut								
DILC10-41A/R/SS	31,7	41,7	17,8	12,9	5	M10x1	5	22,34 €
DILC12-41A/R/SS	31,6	41,7	17,8	12,9	6	M12x1,5	6	26,41 €
DILC16-68A/R/SS	55,5	67,8	26,9	19,4	8	M16x1,5	8	35,83 €
DILC20-68A/R/SS	53,4	67,8	26,9	19,4	10	M20x1,5	10	69,11 €
With nut								
DILC10-41B/R/SS	31,7	41,7	17,9	12,9	5	M10x1	5	23,64 €
DILC12-41B/R/SS	31,6	41,7	17,9	12,9	6	M12x1,5	6	27,86 €
DILC16-68B/R/SS	55,5	67,8	26,9	19,4	8	M16x1,5	8	38,04 €
DILC20-68B/R/SS	53,4	67,8	26,9	19,4	10	M20x1,5	10	70,39 €

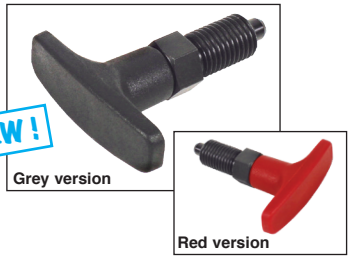
Dimensions in mm

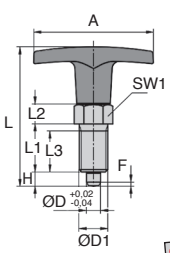
Index bolt with T handle

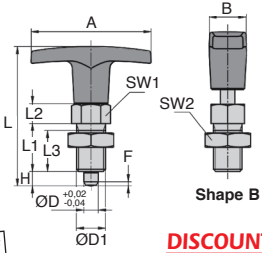
PITA
PITB

Steel - thermoplastic

- ***Indexing bolt with T-handle***
- *The T-handle allows a good grip for easy clamping with low effort*
- *Materials:*
  Burnished steel, class 5.8
  T-handle : thermoplastic dark grey RAL7021 or signal red RAL3020







IN STOCK*
Otherwise contact us

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	Colour	A	B	ØD	ØD1	L	L1	L2	L3	H	SW1	Spring force (N) Initial F1	Spring force (N) Final F2	Price each 1 to 5
Shape A - No nut														
PITA12-50/G	Grey	50	15,5	6	M12x1,5	58	20	8	17	6	14	6	14	10,39 €
PITA16-60/G	Grey	60	18,0	8	M16x1,5	77	26	10	23	8	19	15	35	13,40 €
PITA19-20/G	Grey	72	19,0	10	M20x1,5	84	28	12	25	10	22	15	34	15,56 €
PITA12-50/R	Red	50	15,5	6	M12x1,5	58	20	8	17	6	14	6	14	10,39 €
PITA16-60/R	Red	60	18,0	8	M16x1,5	77	26	10	23	8	19	15	35	13,40 €
PITA19-20/R	Red	72	19,0	10	M20x1,5	84	28	12	25	10	22	15	34	15,56 €
Shape B - With nut														
PITB12-50/G	Grey	50	15,5	6	M12x1,5	58	20	8	17	6	14	6	14	10,75 €
PITB16-60/G	Grey	60	18,0	8	M16x1,5	77	26	10	23	8	19	15	35	14,30 €
PITB19-20/G	Grey	72	19,0	10	M20x1,5	84	28	12	25	10	22	15	34	16,33 €
PITB12-50/R	Red	50	15,5	6	M12x1,5	58	20	8	17	6	14	6	14	10,75 €
PITB16-60/R	Red	60	18,0	8	M16x1,5	77	26	10	23	8	19	15	35	14,30 €
PITB19-20/R	Red	72	19,0	10	M20x1,5	84	28	12	25	10	22	15	34	16,33 €

**Depending on availability - Dimensions in mm*

Index bolt with T handle

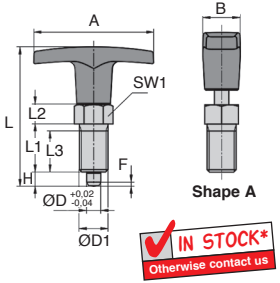
Stainless steel - thermoplastic

PITAss
PITBss

- ***Indexing bolt with T-handle***
- *The T-handle allows a good grip for easy clamping with low effort*
- *Materials:*
  - *303 stainless steel*
  - *T-handle : thermoplastic dark grey RAL7021 or signal red RAL3020*



NEW !



IN STOCK*
Otherwise contact us

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	Colour	A	B	ØD	ØD1	L	L1	L2	L3	H	SW1	Spring force (N) Initial F1	Spring force (N) Final F2	Price each 1 to 5
Shape A - No nut														
PITA12-50/G/SS	Grey	50	15,5	6	M12x1,5	58	20	8	17	6	14	6	14	18,04 €
PITA16-60/G/SS	Grey	60	18,0	8	M16x1,5	77	26	10	23	8	19	15	35	23,92 €
PITA19-20/G/SS	Grey	72	19,0	10	M20x1,5	84	28	12	25	10	22	15	34	32,72 €
PITA12-50/R/SS	Red	50	15,5	6	M12x1,5	58	20	8	17	6	14	6	14	18,04 €
PITA16-60/R/SS	Red	60	18,0	8	M16x1,5	77	26	10	23	8	19	15	35	23,92 €
PITA19-20/R/SS	Red	72	19,0	10	M20x1,5	84	28	12	25	10	22	15	34	32,72 €
Shape B - With nut														
PITB12-50/G/SS	Grey	50	15,5	6	M12x1,5	58	20	8	17	6	14	6	14	19,88 €
PITB16-60/G/SS	Grey	60	18,0	8	M16x1,5	77	26	10	23	8	19	15	35	26,53 €
PITB19-20/G/SS	Grey	72	19,0	10	M20x1,5	84	28	12	25	10	22	15	34	35,06 €
PITB12-50/R/SS	Red	50	15,5	6	M12x1,5	58	20	8	17	6	14	6	14	19,88 €
PITB16-60/R/SS	Red	60	18,0	8	M16x1,5	77	26	10	23	8	19	15	35	26,53 €
PITB19-20/R/SS	Red	72	19,0	10	M20x1,5	84	28	12	25	10	22	15	34	35,06 €

**Depending on availability - Dimensions in mm*

Steel indexing plunger

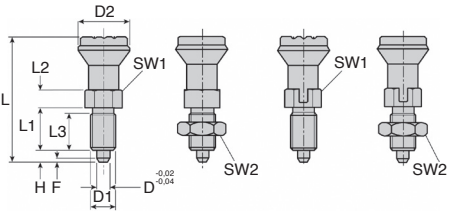
SLB — Threaded body M10x1 - M20x1.5

- ***Manual indexing plunger***
- Exists in 4 different versions
- Materials:
  Bolt: Glass reinforced polyamide
  Body: Blackened steel (class 5.8)
  Tip: Hardened steel
  Spring: Steel
- Working temp: -50°C to +130°C

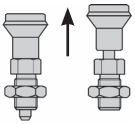


Applications

- Locating and indexing
- Pull to retract locking pin.
- Turn through 90° to retain (Models C + D)



MODEL A — Without lock nut, Without slot
MODEL B — With lock nut, Without slot
MODEL C — Without lock nut, With slot
MODEL D — With lock nut, With slot



Normal Retracted

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	F x 30°	Spring strength initial F1 (N)	Spring strength final F2 (N)	Stock*	Price each 1 to 5
SLB10-A	5	M10x1,0	21	47	17	7	15	5	13	-	1,3	5	12	✔	13,59 €
SLB10-B	5	M10x1,0	21	47	17	7	15	5	13	17	1,3	5	12	✔	14,03 €
SLB10-C	5	M10x1,0	21	47	17	7	15	5	13	-	1,3	5	12	✔	17,20 €
SLB10-D	5	M10x1,0	21	47	17	7	15	5	13	17	1,3	5	12	✔	17,38 €
SLB12-A	6	M12x1,5	25	56	20	8	17	6	14	-	1,8	6	14	✔	15,14 €
SLB12-B	6	M12x1,5	25	56	20	8	17	6	14	19	1,8	6	14	✔	15,64 €
SLB12-C	6	M12x1,5	25	56	20	8	17	6	14	-	1,8	6	14	✔	19,06 €
SLB12-D	6	M12x1,5	25	56	20	8	17	6	14	19	1,8	6	14	✔	19,55 €
SLB16-A	8	M16x1,5	33	74	26	10	23	8	19	-	2,3	15	35	✔	18,64 €
SLB16-B	8	M16x1,5	33	74	26	10	23	8	19	24	2,3	15	35	✔	19,91 €
SLB16-C	8	M16x1,5	33	74	26	10	23	8	19	-	2,3	15	35	✔	21,79 €
SLB16-D	8	M16x1,5	33	74	26	10	23	8	19	24	2,3	15	35	✔	23,04 €
SLB20-A	10	M20x1,5	33	80	28	12	25	10	22	-	2,8	15	40	✔	19,96 €
SLB20-B	10	M20x1,5	33	80	28	12	25	10	22	30	2,8	15	40	✔	20,90 €
SLB20-C	10	M20x1,5	33	80	28	12	25	10	22	-	2,8	15	40	⚠3	22,22 €
SLB20-D	10	M20x1,5	33	80	28	12	25	10	22	30	2,8	15	40	✔	23,01 €

*Depending on availability - Dimensions in mm

Stainless steel indexing plunger

Threaded body M10x1 -M20x1.5

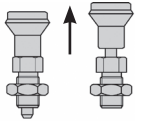
SLBss

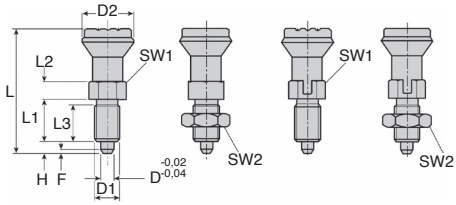
- ***Manual indexing plunger***
- *Exists in 4 different versions*
- *Materials:*
  - *Bolt: Glass reinforced polyamide*
  - *Body: Stainless steel (1.4305 x 10 CrNiS 18 9)*
  - *Tip: Stainless steel (1.4304 x 46 Cr13)*
  - *Spring: Stainless steel (5.8)*
- *Working temp: -50° to +130°C*



Uses

- *Locating and indexing*
- *Pull to retract locking pin.*
- *Turn through 90° to retain (Models C + D)*





MODEL A Without lock nut Without slot

MODEL B With lock nut Without slot

MODEL C Without lock nut With slot

MODEL D With lock nut With slot

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	D	D1	D2	L	L1	L2	L3	H	SW1	SW2	Spring strength F x 30°	Spring strength initial F1 (N)	Spring strength final F2 (N)	Stock*	Price each 1 to 5
SLB10-A/SS	5	M10 x 1,0	21	47	17	7	15	5	13	-	1,3	5	12	✔	22,26 €
SLB10-B/SS	5	M10 x 1,0	21	47	17	7	15	5	13	17	1,3	5	12	✔	24,59 €
SLB10-C/SS	5	M10 x 1,0	21	47	17	7	15	5	13	-	1,3	5	12	✔	25,07 €
SLB10-D/SS	5	M10 x 1,0	21	47	17	7	15	5	13	17	1,3	5	12	✔	27,41 €
SLB12-A/SS	6	M12 x 1,5	25	56	20	8	17	6	14	-	1,8	6	14	✔	26,30 €
SLB12-B/SS	6	M12 x 1,5	25	56	20	8	17	6	14	19	1,8	6	14	✔	28,96 €
SLB12-C/SS	6	M12 x 1,5	25	56	20	8	17	6	14	-	1,8	6	14	✔	29,62 €
SLB12-D/SS	6	M12 x 1,5	25	56	20	8	17	6	14	19	1,8	6	14	✔	32,33 €
SLB16-A/SS	8	M16 x 1,5	33	74	26	10	23	8	19	-	2,3	15	35	✔	33,27 €
SLB16-B/SS	8	M16 x 1,5	33	74	26	10	23	8	19	24	2,3	15	35	✔	36,83 €
SLB16-C/SS	8	M16 x 1,5	33	74	26	10	23	8	19	-	2,3	15	35	✔	38,36 €
SLB16-D/SS	8	M16 x 1,5	33	74	26	10	23	8	19	24	2,3	15	35	✔	42,06 €
SLB20-A/SS	10	M20 x 1,5	33	80	28	12	25	10	22	-	2,8	15	40	-	35,81 €
SLB20-B/SS	10	M20 x 1,5	33	80	28	12	25	10	22	30	2,8	15	40	✔	38,40 €
SLB20-C/SS	10	M20 x 1,5	33	80	28	12	25	10	22	-	2,8	15	40	-	44,37 €
SLB20-D/SS	10	M20 x 1,5	33	80	28	12	25	10	22	30	2,8	15	40	✔	46,72 €

**Depending on availability - Dimensions in mm*

Stainless steel indexing bolt

SLBS — Threaded body M8x1 - M20x1.5

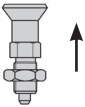
- ***Indexing bolt for manual indexing applications***
- Exists in 4 versions
- Material:
  Body: Stainless steel 303
  Pin: Hardened stainless steel 420
- Finish:
  Ground and blackened
  Mushroom headed button:
  Electropolished finish

Pull the knob to unlock

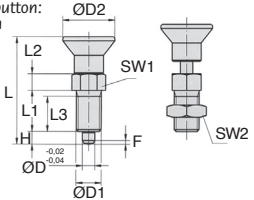


Info.

- These indexing can be used to restrict lateral movement. Raising the handle releases the pin

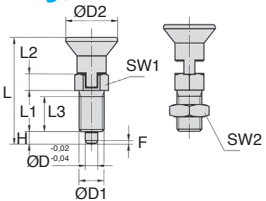


Normal position — Retracted position



Form A Without slot, without lock nut

Form B Without slot, with lock nut



Form C With slot, without lock nut

Form D With slot, with lock nut

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	ØD	ØD1	ØD2	L	L1	L2	L3	H	SW1	SW2	Spring strength F x initial 30° F1 (N)	Spring strength final F2 (N)	Stock*	Price each 1 to 5
SLBS8-A	4	M8 x 1,0	18	43,0	15	6	13	4	10	13	1,0	6	12	✔	24,57 €
SLBS8-B	4	M8 x 1,0	18	43,0	15	6	13	4	10	13	1,0	6	12	✔	27,06 €
SLBS8-C	4	M8 x 1,0	18	38,5	15	6	13	4	10	13	1,0	6	12	✔	29,52 €
SLBS8-D	4	M8 x 1,0	18	38,5	15	6	13	4	10	13	1,0	6	12	✔	32,37 €
SLBS10-A	5	M10 x 1,0	21	50,0	17	7	15	5	13	17	1,3	5	12	✔	21,15 €
SLBS10-B	5	M10 x 1,0	21	50,0	17	7	15	5	13	17	1,3	5	12	✔	23,37 €
SLBS10-C	5	M10 x 1,0	21	43,5	17	7	15	5	13	17	1,3	5	12	-	28,16 €
SLBS10-D	5	M10 x 1,0	21	43,5	17	7	15	5	13	17	1,3	5	12	✔	30,77 €
SLBS12-A	6	M12 x 1,5	25	59,0	20	8	17	6	14	19	1,8	6	14	✔	24,96 €
SLBS12-B	6	M12 x 1,5	25	59,0	20	8	17	6	14	19	1,8	6	14	✔	27,46 €
SLBS12-C	6	M12 x 1,5	25	52,0	20	8	17	6	14	19	1,8	6	14	✔	33,28 €
SLBS12-D	6	M12 x 1,5	25	52,0	20	8	17	6	14	19	1,8	6	14	✔	36,35 €
SLBS16-A	8	M16 x 1,5	33	77,0	26	10	23	8	19	24	2,3	15	35	✔	34,90 €
SLBS16-B	8	M16 x 1,5	33	77,0	26	10	23	8	19	24	2,3	15	35	✔	36,64 €
SLBS16-C	8	M16 x 1,5	33	68,0	26	10	23	8	19	24	2,3	15	35	✔	45,26 €
SLBS16-D	8	M16 x 1,5	33	68,0	26	10	23	8	19	24	2,3	15	35	✔	49,53 €
SLBS20-A	10	M20 x 1,5	33	83,0	28	12	25	10	22	30	2,6	15	40	-	53,64 €
SLBS20-B	10	M20 x 1,5	33	83,0	28	12	25	10	22	30	2,6	15	40	✔	60,64 €
SLBS20-C	10	M20 x 1,5	33	74,0	28	12	25	10	22	30	2,6	15	40	-	78,91 €
SLBS20-D	10	M20 x 1,5	33	74,0	28	12	25	10	22	30	2,6	15	40	✔	83,09 €

*Depending on availability - Dimensions in mm

Spacer for index bolt

Used with SLB and SLBS

SLBE

- **Allows the length of the thread of index bolts to be adapted to the length required for an application (wall thickness)**
- *Material:*
  stainless steel, natural finish

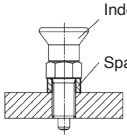


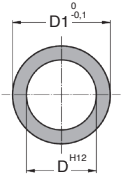
Info

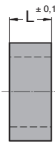
- *Not sold individually, contact us for details*

Accessories

- *Used with* **SLB** *and* **SLBS** *index bolts* **(tome 1 p.64-66)**







DISCOUNTS

Qty	1+	40+	100+	200+
Disc.	List	-5%	-10%	On request

Part number	ØD	ØD1	Length L (mm)	Weight (kg)	Stock*	Price each 1 to 39
SLBE8-11-2/SS	8	11	2	0,6	✔	0,81 €
SLBE8-11-3/SS	8	11	3	0,9	✔	0,87 €
SLBE8-11-4/SS	8	11	4	1,3	✔	0,95 €
SLBE8-11-6/SS	8	11	6	2,0	✔	1,00 €
SLBE8-11-8/SS	8	11	8	2,6	✔	1,08 €
SLBE10-14-2/SS	10	14	2	1,1	-	0,87 €
SLBE10-14-3/SS	10	14	3	1,7	-	1,03 €
SLBE10-14-4/SS	10	14	4	2,2	✔	1,00 €
SLBE10-14-6/SS	10	14	6	3,4	✔	1,11 €
SLBE10-14-8/SS	10	14	8	4,5	✔	1,19 €
SLBE12-15-2/SS	12	15	2	0,9	✔	0,98 €
SLBE12-15-4/SS	12	15	4	1,9	✔	1,08 €
SLBE12-15-5/SS	12	15	5	2,4	✔	1,18 €
SLBE12-15-6/SS	12	15	6	2,8	-	1,19 €
SLBE12-15-8/SS	12	15	8	3,8	-	1,32 €
SLBE12-17-2/SS	12	17	2	1,6	-	1,11 €
SLBE12-17-4/SS	12	17	4	3,4	-	1,19 €
SLBE12-17-5/SS	12	17	5	4,3	-	1,32 €
SLBE12-17-6/SS	12	17	6	5,2	-	1,38 €
SLBE12-17-8/SS	12	17	8	6,9	-	1,52 €
SLBE16-21-4/SS	16	21	4	4,4	-	1,38 €
SLBE16-21-5/SS	16	21	5	5,5	-	1,52 €
SLBE16-21-6/SS	16	21	6	6,6	-	1,63 €
SLBE16-21-8/SS	16	21	8	8,8	-	1,75 €
SLBE16-21-10/SS	16	21	10	11,0	-	1,83 €

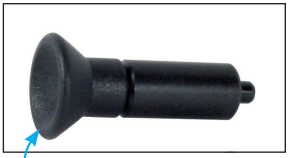
**Depending on availability - Dimensions in mm*

Weldable indexing plunger

SLBW

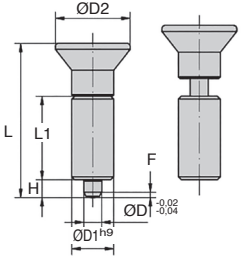
Pull handle to release

- ***Manual indexing plunger, smooth body, no flange***
- *Smooth body for welding*
- *Two versions available*
- *Material :*
  Body: Steel 1.0403 (suitable for welding)
  Pin: Hardened steel, Resistance class 5.
  Head: Dark grey thermosetting plastic

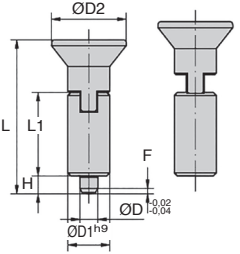


Info.

- *Indexing bolts are used where lateral movement is required to be blocked. Pulling the handle releases the pin. The M version allows the pin to be held in the retained position.*
- *Bolts should be welded using a WIG inert gas process.*



"L" type without retaining mechanism



"M" type without retaining mechanism

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	ØD	ØD1	ØD2	L	L1	H	Fx30°	Spring force Initial (N)	Spring force Final (N)	Price each 1 to 5
SLBW10-L	4	10	18	38,5	21	4	1,0	6	12	9,63 €
SLBW10-M	4	10	18	38,5	21	4	1,0	6	12	12,37 €
SLBW12-L	5	12	21	43,5	24	5	1,3	5	12	9,12 €
SLBW12-M	5	12	21	43,5	24	5	1,3	5	12	11,75 €
SLBW14-L	6	14	25	51,7	28	6	1,8	6	14	10,13 €
SLBW14-M	6	14	25	51,7	28	6	1,8	6	14	13,01 €
SLBW18-L	8	18	33	68,0	36	8	2,3	15	35	13,11 €
SLBW18-M	8	18	33	68,0	36	8	2,3	15	35	15,47 €
SLBW22-L	10	22	33	74,0	40	10	2,8	15	40	20,14 €
SLBW22-M	10	22	33	74,0	40	10	2,8	15	40	23,65 €

Dimensions in mm

Stainless steel weldable indexing plunger

Pull handle to release

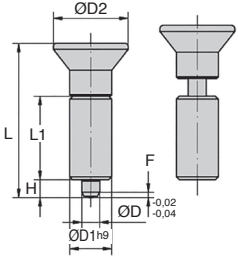
SLBWss

- ***Manual indexing plunger, smooth body, no flange***
- *Smooth body for welding*
- *Two versions available.*
- *Material*
  Body: Stainless steel 303
  Pin: Hardened stainless steel 420
  Head: Dark grey thermosetting plastic

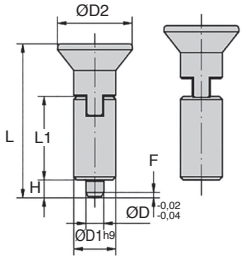


Info.

- *Indexing bolts are used where lateral movement is required to be blocked. Pulling the handle releases the pin. With the M version, the pin can be held in the retained position.*
- *Bolts should be welded using a WIG inert gas process*



"L" type without retaining mechanism



"M" type with retaining mechanism

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	ØD	ØD1	ØD2	L	L1	H	Fx30°	Spring force Initial (N)	Spring force Final (N)	Price each 1 to 5
SLBW10-L/SS	4	10	18	38,5	21	4	1,0	6	12	16,73 €
SLBW10-M/SS	4	10	18	38,5	21	4	1,0	6	12	21,05 €
SLBW12-L/SS	5	12	21	43,5	24	5	1,3	5	12	15,59 €
SLBW12-M/SS	5	12	21	43,5	24	5	1,3	5	12	20,05 €
SLBW14-L/SS	6	14	25	51,7	28	6	1,8	6	14	17,80 €
SLBW14-M/SS	6	14	25	51,7	28	6	1,8	6	14	22,85 €
SLBW18-L/SS	8	18	33	68,0	36	8	2,3	15	35	23,65 €
SLBW18-M/SS	8	18	33	68,0	36	8	2,3	15	35	27,91 €
SLBW22-L/SS	10	22	33	74,0	40	10	2,8	15	40	37,40 €
SLBW22-M/SS	10	22	33	74,0	40	10	2,8	15	40	43,89 €

Dimensions in mm

Indexing pin for sheet metal

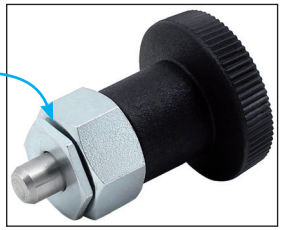
PPD

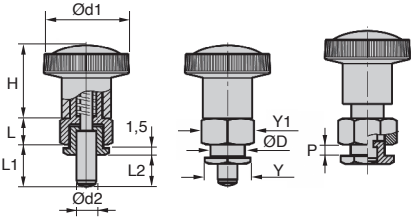
For thin sheets or walls

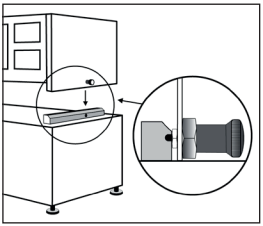
- **With or without possibility to lock in open position**
- Material:
  Polyamide knurled knob, matt surface finish
  Body: Chromed steel
  Pin: stainless steel

Info.

- Locking version: pull and turn to lock.







Typical application: locking

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	Ød1	Ød2	L	H	L1	L2	ØD	Y	Y1	P	Weight (g)	Stock*	Price each 1 to 5
Non-locking													
PPD6-8	26	6	9	23	8,5	6,0	10x1,0	14	16	from 1 to 5	40	✔	27,26 €
PPD6-10	26	6	9	23	10,5	6,0	10x1,0	14	16	from 1 to 5	40	✔	27,26 €
PPD8-10	32	8	8	28	10,0	7,5	12x1,5	16	18	from 1 to 5	62	-	29,98 €
PPD8-12	32	8	8	28	12,0	7,5	12x1,5	16	18	from 1 to 5	65	-	29,98 €
Locking													
PPD6-8/A	26	6	9	23	8,5	6,0	10x1,0	14	16	from 1 to 5	40	✔	27,26 €
PPD6-10/A	26	6	9	23	10,5	6,0	10x1,0	14	16	from 1 to 5	40	✔	27,26 €
PPD8-10/A	32	8	10	28	10,0	7,5	12x1,5	16	18	from 1 to 5	62	-	29,98 €
PPD8-12/A	32	8	10	28	12,0	7,5	12x1,5	16	18	from 1 to 5	65	✔	29,98 €

*Depending on availability - Dimensions in mm

Indexing pin with drilled flange

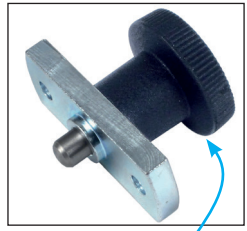
With pre-drilled mounting flange

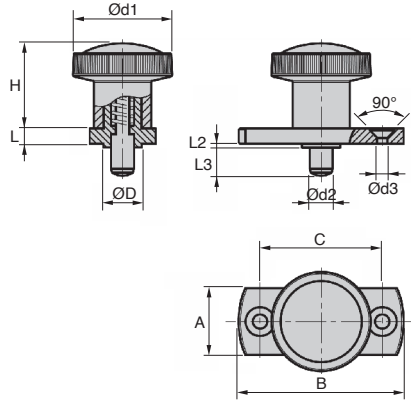
PPF

- **With or without possibility to lock in open position**
- *Material:*
  Polyamide knurled head with matt finish
  Flange: Plated steel
  Pin: Stainless steel

Info.

- *Locking version: pull and turn to lock*





DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	Ød1	Ød2	L	H	L3	ØD	L2	A	B	C	Ød3	Weight (g)	Stock*	Price each 1 to 5
Non-locking														
PPF6-6	26	6	5	23	6	10	2	16	42	30	4,30	40,9	✔	43,40 €
PPF6-14	26	6	5	23	14	10	2	16	42	30	4,30	41,9	✔	43,40 €
PPF8-8	32	8	6	28	8	12	2	20	50	34	5,30	71,4	-	47,79 €
PPF8-18	32	8	6	28	18	12	2	20	50	34	5,30	74,4	✔	47,79 €
Locking														
PPF6-6/A	26	6	5	23	6	10	2	16	42	30	4,30	40,9	✔	41,70 €
PPF6-14/A	26	6	5	23	14	10	2	16	42	30	4,30	42,9	✔	41,70 €
PPF8-8/A	32	8	6	28	8	12	2	20	50	34	5,30	72,4	-	45,89 €
PPF8-18/A	32	8	6	28	18	12	2	20	50	34	5,30	73,4	✔	45,89 €

**Depending on availability - Dimensions in mm*



MINIMUM ORDER 20€*

VOLUME DISCOUNT

1,2,3 PRODUCTS SOLD INDIVIDUALLY

CAD FILES STEP, IGES...

MADE TO MEASURE AVAILABLE

CAD FILES STEP, IGES...

1,2,3 PRODUCTS SOLD INDIVIDUALLY

VOLUME DISCOUNT

MADE TO MEASURE AVAILABLE



FREE CATALOGUES

FREE DELIVREY FOR ORDERS 100€* OR MORE

CAD FILES STEP, IGES...

1,2,3 PRODUCTS SOLD INDIVIDUALLY

FAST QUOTES & ORDERS

VOLUME DISCOUNT

* Certain conditions apply - Deliveries to mainland France only

Miniature



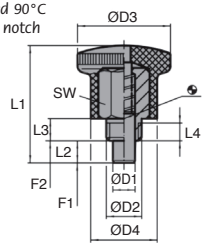
- ***Particularly suitable for screwing into thin-walled parts***
- *Works well in reduced spaces*
- *Non-removable spaces*
- *Materials:*
  Head - matt thermoplastic
  Body - galvanised steel or 303 stainless steel
  Pin - 303 stainless steel

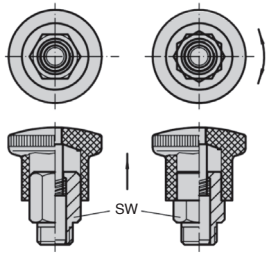
Assembly

- *Screw in as far as possible, then pull on the button to reveal the hexagonal nut for final assembly*

Operation

- *For the locking version, the button is pulled and then turned 90°C where it is retained in a notch*
- *Working temperature range -30°C to 80°C*





DISCOUNTS

Qty	1+	6+	20+
Disc	List	-10%	On request

Part number	ØD1	ØD2	L1	ØD3	ØD4	L2	L3	L4	SW	F1 (N)	F2 (N)	Weight (g)	Stock*	Price each 1 to 5
Non-locking version														
BIM4-8-26.5	4	M8x0,75	26,5	21,0	15,0	5	5	3,5	10	4,5	12	14	✔	10,22 €
BIM5-8-26.5	5	M8x0,75	26,5	21,0	15,0	5	5	3,5	10	4,5	12	14	✔	10,52 €
BIM6-10-34	6	M10x1	34	25,0	18,0	7	7	4,5	12	5	18	25	✔	12,37 €
BIM7-10-34	7	M10x1	34	25,0	18,0	7	7	4,5	12	5	18	26	-	12,98 €
Locking version														
BIM4-8-26.5/LOK	4	M8x0,75	26,5	21,0	15,0	5	5	3,5	10	4,5	12	13	✔	10,22 €
BIM5-8-26.5/LOK	5	M8x0,75	26,5	21,0	15,0	5	5	3,5	10	4,5	12	14	✔	10,52 €
BIM6-10-34/LOK	6	M10x1	34	25,0	18,0	7	7	4,5	12	5	18	24	-	12,37 €
BIM7-10-34/LOK	7	M10x1	34	25,0	18,0	7	7	4,5	12	5	18	25	✔	12,98 €

**Depending on availability - Dimensions in mm*

Stainless steel miniature indexing button

BIMss

For reduced spaces

- ***Particularly suitable for screwing into thin-walled parts.***
- *Works well in reduced spaces*
- *Non-removable button*
- *Materials:*
  Head 304 stainless steel
  Body - 304 stainless steel
  Pin - 303 stainless steel

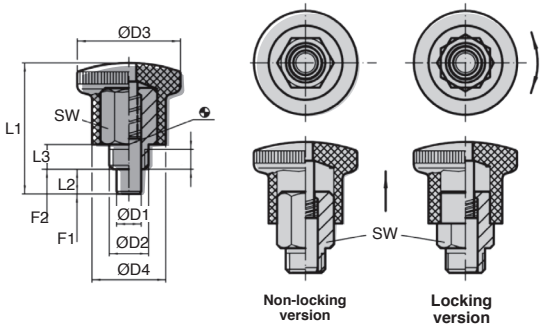


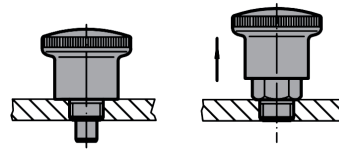
Assembly

- *Screw in as far as possible, then pull on the button to reveal the hexagonal nut for final assembly.*

Operation

- *For the locking version, the button is pulled and then turned 90°C where it is retained in a notch.*
- *Max working temperature 250°C.*





DISCOUNTS

Qty	1+	6+	20+
Disc	List	-10%	On request

Part number	ØD1	ØD2	L1	ØD3	Ød4	L2	L3	SW	F1 (N)	F2 (N)	Weight (g)	Price each 1 to 5
Non-locking version												
BIM4-8-27.5/SS	4	M8	27,5	21,0	15	5	6	10	4	12	28	25,52 €
BIM4-8F-27.5/SS	4	M8x1	27,5	21,0	15	5	6	10	4	12	28	25,52 €
BIM5-10-34/SS	5	M10	34	25,0	18	6	8	12	6	16	49	28,53 €
BIM5-10F-34/SS	5	M10x1	34	25,0	18	6	8	12	6	16	50	28,53 €
BIM6-10-34/SS	6	M10	34	25,0	18	6	8	12	6	16	50	28,53 €
BIM6-10F-34/SS	6	M10x1	34	25,0	18	6	8	12	6	16	50	28,53 €
BIM6-12-40.5/SS	6	M12	40,5	28,0	20	7	10	14	10	23	74	34,86 €
BIM6-12F-40.5/SS	6	M12x1,5	40,5	28,0	20	7	10	14	10	23	75	34,86 €
BIM7-12-40.5/SS	7	M12	40,5	28,0	20	7	10	14	10	23	75	34,28 €
BIM7-12F-40.5/SS	7	M12x1,5	40,5	28,0	20	7	10	14	10	23	75	34,28 €
BIM8-16-47.5/SS	8	M16	47,5	33,0	23	10	12	17	11	34	110	43,04 €
BIM8-16F-47.5/SS	8	M16x1,5	47,5	33,0	23	10	12	17	11	35	113	43,04 €
BIM10-16-47.5/SS	10	M16	47,5	33,0	23	10	12	17	11	35	113	43,04 €
BIM10-16F-47.5/SS	10	M16x1,5	47,5	33,0	23	10	12	17	11	35	113	43,04 €
Locking version												
BIM4-8-27.5/LOK/SS	4	M8	27,5	21,0	15	5	6	10	4	12	27	25,52 €
BIM4-8F-27.5/LOK/SS	4	M8x1	27,5	21,0	15	5	6	10	4	12	28	25,52 €
BIM5-10-34/LOK/SS	5	M10	34	25,0	18	6	8	12	6	16	48	28,53 €
BIM5-10F-34/LOK/SS	5	M10x1	34	25,0	18	6	8	12	6	16	49	28,53 €
BIM6-10-34/LOK/SS	6	M10	34	25,0	18	6	8	12	6	16	49	28,71 €
BIM6-10F-34/LOK/SS	6	M10x1	34	25,0	18	6	8	12	6	16	49	28,71 €
BIM6-12-40.5/LOK/SS	6	M12	40,5	28,0	20	7	10	14	10	23	72	34,86 €
BIM6-12F-40.5/LOK/SS	6	M12x1,5	40,5	28,0	20	7	10	14	10	23	73	34,86 €
BIM7-12-40.5/LOK/SS	7	M12	40,5	28,0	20	7	10	14	10	23	73	34,28 €
BIM7-12F-40.5/LOK/SS	7	M12x1,5	40,5	28,0	20	7	10	14	10	23	74	34,28 €
BIM8-16-47.5/LOK/SS	8	M16	47,5	33,0	23	10	12	17	11	35	110	43,04 €
BIM8-16F-47.5/LOK/SS	8	M16x1,5	47,5	33,0	23	10	12	17	11	35	110	43,04 €
BIM10-16-47.5/LOK/SS	10	M16	47,5	33,0	23	10	12	17	11	35	112	43,04 €
BIM10-16F-47.5/LOK/S	10	M16x1,5	47,5	33,0	23	10	12	17	11	35	114	43,04 €

Dimensions in mm

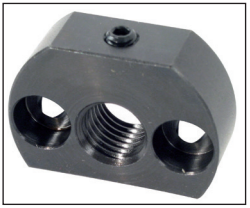
Locating bolt support bracket

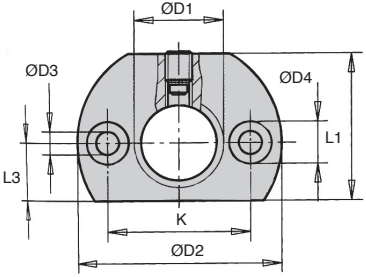
Stock

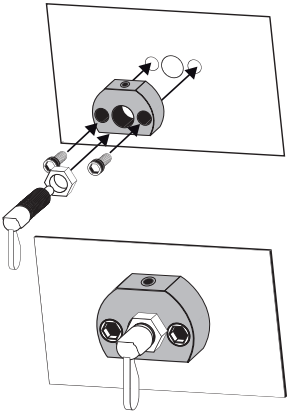
SDA Mounting holes parallel to locating bolt

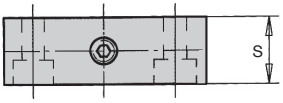
- ***Use of a support bracket allows locating bolts to be positioned quickly***
- *Compatible with all types of locating bolts*
- *Material: blackened steel*

Positioned quickly









DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	ØD1	ØD2	ØD3	ØD4	K	L1	L3	S	Stock*	Price each 1 to 5
SDA12	M12	36	5,5	10	24	25	10	12	✔	14,00 €
SDA12-F	M12 x 1,5	36	5,5	10	24	25	10	12	-	14,00 €
SDA16	M16	46	5,5	10	32	33	13	15	✔	15,19 €
SDA16-F	M16 x 1,5	46	5,5	10	32	33	13	15	✔	15,19 €
SDA20	M20	46	5,5	10	32	33	13	15	✔	19,09 €
SDA20-F	M20 x 1,5	46	5,5	10	32	33	13	15	✔	15,19 €

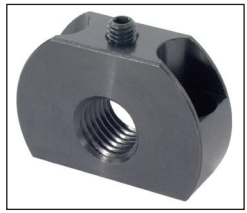
**Depending on availability - Dimensions in mm*

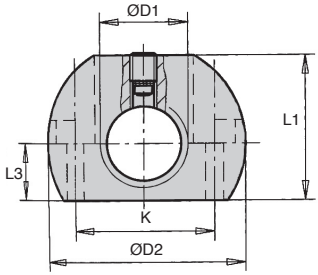
Locating bolt support bracket

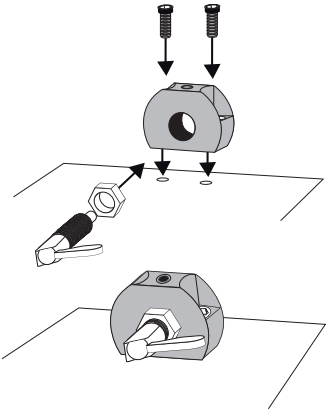
Mounting holes at 90° to locating bolt SDB

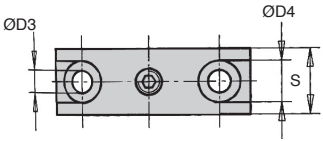
- **Use of a support bracket allows locating bolts to be mounted quickly**
- *Compatible with all types of locating bolts*
- *Material:*
  Body: blackened steel

Positioned quickly









DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	ØD1	ØD2	ØD3	ØD4	K	L1	L3	S	Stock*	Price each 1 to 5
SDB12	M12	36	5,5	10	24	25	10	12	✔	18,45 €
SDB12-F	M12 x 1,5	36	5,5	10	24	25	10	12	✔	18,45 €
SDB16	M16	46	5,5	10	32	33	13	15	✔	18,29 €
SDB16-F	M16 x 1,5	46	5,5	10	32	33	13	15	✔	18,29 €
SDB20	M20	46	5,5	10	32	33	13	15	✔	21,47 €
SDB20-F	M20 x 1,5	46	5,5	10	32	33	13	15	✔	17,82 €

**Depending on availability - Dimensions in mm*

Positioning sleeve for indexing pin

New

SDC

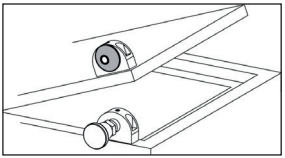
For pin Ø4 to Ø12

- ***Suitable for indexing pins and indexing locks***
- *Low wear due to hardened cone*
- *Materials:*
  Hardened and burnished steel
  Hardened stainless steel

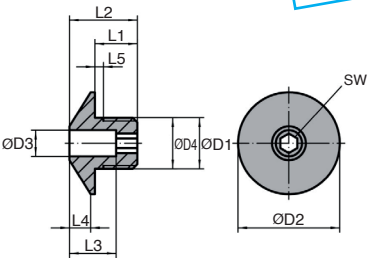


Accessories

- *Compatible with the **SDA** and **SDB** locating bolt support bracket **(tome 1 p.76-77)***
- *Compatible with the HPC range of indexing pins.*



Application example



DISCOUNTS

Qty	1+	6+	20+
Disc.	Price	-10%	On request

Part number	ØD	ØD3 (+0,1)	ØD2	ØD4 (-0,05)	L1	L2	L3	L4	L5 (+0,5)	For pin diam	SW	Weight (g)	Price each 1 to 5
Steel													
SDC12F-4	M12X1,5	4,2	24	12	10	16	11	5	1,5	4	4	17	11,88 €
SDC12F-5	M12X1,5	5,2	24	12	10	16	11	5	1,5	5	4	16	11,95 €
SDC12F-6	M12X1,5	6,2	24	12	10	16	11	5	1,5	6	4	16	11,95 €
SDC16F-8	M16X1,5	8,2	32	16	12	20	13	7	1,5	8	6	32	14,34 €
SDC16F-10	M16X1,5	10,2	32	16	12	20	13	7	1,5	10	6	33	14,24 €
SDC16F-12	M16X1,5	12,2	32	16	12	20	13	7	1,5	12	6	33	14,34 €
Stainless steel													
SDC12F-4/SS	M12X1,5	4,2	24	12	10	16	11	5	1,5	4	4	17	15,95 €
SDC12F-5/SS	M12X1,5	5,2	24	12	10	16	11	5	1,5	5	4	16	15,95 €
SDC12F-6/SS	M12X1,5	6,2	24	12	10	16	11	5	1,5	6	4	16	15,95 €
SDC16F-8/SS	M16X1,5	8,2	32	16	12	20	13	7	1,5	8	6	32	23,19 €
SDC16F-10/SS	M16X1,5	10,2	32	16	12	20	13	7	1,5	10	6	33	23,19 €
SDC16F-12/SS	M16X1,5	12,2	32	16	12	20	13	7	1,5	12	6	33	23,19 €

Dimensions in mm

Find our full range of

BEARINGS

on HPCEUROPE.COM



- Stainless steel
- Plastic
- Steel



CLAMPING LEVER



p.93

CRANK ARM WITH ROTATING HANDLE



p.96

SOLID HANDWHEEL WITH ROTATING HANDLE



p.116

SMALL 6 LOBE THREADED KNOB



p.120

3-LOBE KNOB



p.126

DETECTABLE PLASTIC PALM GRIP



p.136

OPERATING PARTS

P. 82-165

ANTISTATIC KNURLED NUT



p.144

HEXAGONAL HEADED THUMB NUT



p.148

HANDLE FOR USE IN HIGH TEMPERATURES



p.156

RECESSED HANDLE



p.164

Buying guide

Handwheels

				
Part number	**VPRAM**	**SHA** **SHAPT** **SHAPTR**	**V3RA** **V3RAPT** **V3RAPTR**	**HLU** **HLUT**
Handle	rotating	without, revolving, folding revolving	without, revolving, folding revolving	without, rotating
Materials	Black phenolic plastic	Thermoplastic glass fiber reinforced	Thermoplastic glass fiber reinforced	aluminium
Outside diameter (mm)	Ø50 - Ø300	Ø100 - Ø200	Ø100 - Ø375	Ø80 - Ø500
Advantage	High operating temperature	current application	light	large diameter
Custom bore and keyway	✔	✔	✔	✘
Quality index	☆☆☆	☆☆☆	☆☆☆	☆☆☆
Price	€€	€	€	€€
Pages	1 **p.99**	1 **p.100**	1 **p.103**	1 **p.112**

				
VPPT/SS	**HLU/SS**	**MH-MEP**	**MHPGR**	**MHQ-MEP**
rotating	Rotating (to be added)	rotating	folding rotating	rotating
stainless steel	**stainless steel**	Thermoplastic glass fiber reinforced	Thermoplastic glass fiber reinforced	Thermoplastic glass fiber reinforced
Ø76 - Ø254	Ø100 - Ø200	R65-R160	R65-R160	R65-R160
food	food	light	light	square bore
✘	✘	✔	✔	✘
☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆
€€€	€€€	€	€	€
1 **p.116**	1 **p.114**	1 **p.96**	1 **p.98**	1 **p.97**

Buying guide

Locking knobs

					
Part number	**BMF**	**BMM**	**GLB**	**GLP**	**BEA**
Description	knurled knob	knurled knob	small 6-lobe handle	small 6-lobe handle	anti-bacterial star button
Attachment	female, blind or through	male	female, blind or through	male	male / female
Diameter of fastening	M4 ➔ M8	M4 ➔ M8	M6 ➔ M16	M6 ➔ M16	M8
Material	reinforced polyamide	reinforced polyamide	reinforced polyamide	reinforced polyamide	thermoplastic
Material thread	brass	steel or stainless steel	brass or stainless steel	steel or stainless steel	stainless steel
Outside diameter	Ø15 ➔ Ø32	Ø15 ➔ Ø33	Ø30 ➔ Ø70	Ø30 ➔ Ø70	Ø40
Quality index	☆☆	☆☆	☆☆	☆☆	☆☆☆
Price	€	€	€	€	€€
Pages	1 p.119	1 p.118	1 p.120	1 p.121	1 p.134

					
Part number	**EMAS**	**BEAS**	**PDV**	**PDM**	**VB VBFP**
Description	antistatic button	antistatic star button	Visually identifiable blue	Identifiable by metal detectors	Small 6 lobe knob
Attachment	female through	female	male / female	male / female	female, blind or through
Diameter of fastening	M4 ➔ M10	M8	M5 ➔ M10	M5 ➔ M10	M4 ➔ M10
Material	thermoplastic	thermoplastic	blue thermoplastic	thermoplastic	phenolic plastic
Material thread	steel	steel	316L stainless steel	316L stainless steel	brass or stainless steel
Outside diameter	Ø18 ➔ Ø40	Ø40	Ø25 ➔ Ø50	Ø25 ➔ Ø50	Ø20 ➔ Ø70
Quality index	☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆
Price	€€	€€	€€	€€	€
Pages	1 p.144	1 p.135	1 p.138	1 p.136	1 p.128

					
GGB	**GGP**	**VTLF**	**VTLM**	**VTLB**	**BSC**
wing knob	thumbscrew	Small 3-lobe knob	Small 3-lobe knob	3-lobe knob	torque-controlled button
female, blind or through	male	female, blind or through	male	female	male / female
M6 ➜ M8	M6 ➜ M8	M6 ➜ M10	M6 ➜ M10	M8 ➜ M14	M5 ➜ M8
reinforced polyamide	reinforced polyamide	reinforced polyamide	reinforced polyamide	thermoplastic	thermoplastic
brass	steel or **stainless steel**	**brass**	steel	**brass** or **stainless steel**	steel
Ø34 ➜ Ø48	Ø34 ➜ Ø48	Ø45 ➜ Ø55	Ø45 ➜ Ø55	Ø63 ➜ Ø100	Ø26 ➜ Ø34
☆☆	☆☆	☆☆	☆☆	☆☆	☆☆☆
€	€	€	€	€	€€€
1 p.122	1 p.123	1 p.124	1 p.125	1 p.126	1 p.132
					
VP	**EMS$_H$ EMS$_B$**	**VMS**	**EML**	**VML**	**EMR**
Small 6 lobe knob	knurled nut	knurled screw	6-lobe nut	6-lobe screw	quick-release nut
male	female	male	female	male	female
M4 ➜ M14	M3 ➜ M12	M4 ➜ M10	M5 ➜ M12	M6 ➜ M12	M5 ➜ M12
phenolic plastic	**stainless steel**	**stainless steel**	**polished stainless steel**	**polished stainless steel**	steel
steel or **stainless steel**	plain	plain	plain	plain	plain
Ø20 ➜ Ø70	Ø12 ➜ Ø36	Ø16 ➜ Ø36	Ø27 ➜ Ø60	Ø27 ➜ Ø60	Ø20 ➜ Ø40
☆☆	☆☆	☆☆	☆☆☆	☆☆☆	☆☆
€	€	€	€€€	€€€	€
1 p.130	1 p.146	1 p.147	1 p.148	1 p.149	1 p.145

Buying guide

Knobs and handle

For push/pull operation

					
Part number	**GPB**	**GPBSS GPBAL**	**PCH**	**BCH**	**PGNT**
Description	spherical	spherical	mushroom knob	mushroom knob	T grip
Attachment	female	female	female	female	male / female
Diameter of fastening	M4 ➔ M14	M4 ➔ M12	M5 ➔ M8	M3 ➔ M8	M5 ➔ M12
Material	duroplast	aluminium **stainless steel**	reinforced polyamide	**stainless steel**	reinforced polyamide
Material thread	massive or **brass**	massive	**brass**	massive	steel or **brass**
Outside diameter	Ø19 ➔ Ø47	Ø16 ➔ Ø50	Ø26 ➔ Ø32	Ø18 ➔ Ø33	Ø40 ➔ Ø80
Quality index	☆☆	☆☆☆	☆☆	☆☆☆	☆☆
Price	€	€€	€	€€	€
Pages	1 **p.142**	1 **p.143**	1 **p.151**	1 **p.152**	1 **p.150**

Knobs and handle

For push/pull operation

						
Part number	**PO**	**PHT**	**PGMT**	**PGM**	**PGMM4**	**PGMM5**
Description	handle	high temperature handle	handle	handle	handle	handle
Attachment	smooth hole or threaded	smooth hole or threaded	smooth hole	tapped hole	tapped hole	tapped hole
Diameter of fastening	Ø10 ➔ Ø13 M6 ➔ M8	Ø9 M5 ➔ M8	Ø4,3	M5 ➔ M10	M4	M5
Material	reinforced polyamide	thermoplastic	steel or **stainless steel**	thermoplastic	**stainless steel**	**stainless steel** aluminium
Material thread	massive or **brass**	massive or **brass**	massive	**brass**	massive	massive
Outside diameter	93 ➔ 179	100 ➔ 140	107	86 ➔ 179	52 ➔ 120	100 ➔ 180
Quality index	☆☆☆	☆☆☆	☆☆	☆☆	☆☆☆	☆☆☆
Price	€	€€	€	€	€€	€€
Pages	1 **p.154**	1 **p.156**	1 **p.158**	1 **p.159**	1 **p.160**	1 **p.161**

Clamping levers

Rotate a few degrees around an axis









Part number	PCLA-M	PCLA-T	CLB-M	CLB-T	CLASS-M	CLASS-T	CLAHUSS CLATHUSS HYGIENIC
Material	reinforced plastic	reinforced plastic	die cast zinc	die cast zinc	stainless steel	stainless steel	polished stainless steel
Diameter of fastening	threading M4 ➜ M16	threaded rod M5 ➜ M16	threading M4 ➜ M16	threaded rod M5 ➜ M16	threading M5 ➜ M12	threaded rod M5 ➜ M12	M8 / M10
Handle length (mm)	47 ➜ 126	47 ➜ 126	47 ➜ 126	47 ➜ 126	47 ➜ 109	47 ➜ 109	81,5
Quality index	☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆☆	☆☆☆☆	☆☆☆☆
Price	€€	€€	€€	€€	€€€	€€€	€€€
Pages	1 p.88	1 p.89	1 p.90	1 p.91	1 p.92	1 p.93	1 p.614

Carrying handles









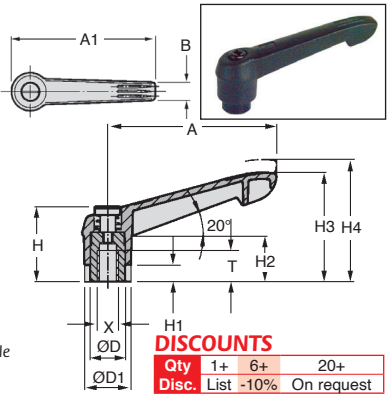
PCA	PSEC	PAS	PENC	PENV	PX	PO
handle	security pull handle	antistatic handle	clip-on handle	screw-on handle	single carrying handle	carrying handle with counter plate
tapped hole	smooth hole	smooth hole	built-in	built-in	smooth hole	smooth hole
M5 ➜ M10	Ø6,5	Ø9	-	-	-	-
thermoplastic	thermoplastic	thermoplastic	thermoplastic	thermoplastic	steel	steel
brass	massive	massive	-	-	-	-
93,5 ➜ 179			79 ➜ 164	94	96	116
☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆	☆☆☆
€	€	€€	€€	€€	€	€€
1 p.162	5 p.283	1 p.163	1 p.164	1 p.165	1 p.153	1 p.153

Plastic clamping lever

PCLAM
PCLAMSS

With threaded insert

- ***Clamping lever with threaded insert***
- *Materials:*
  Insert: steel (class 5.8) or stainless steel (303)
  Handle: glass fibre reinforced polyamide plastic
  Mechanism: splined diecast zinc
- *Finish: Blackened steel*
- *Color : black*



Uses

- *The lever is normally in a locked position*
- *Raise the handle to release the lever and turn to required position*
- *When handle is released, lever will automatically lock in new position*

Info.

- *H4 = clearance height required for handle*

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	Thread X	T	ØD	ØD1	H	H1	H2
PCLA01M4	M4	9	10,0	13,0	24,5	4,0	15,0
PCLA01M5	M5	9	10,0	13,0	24,5	4,0	15,0
PCLA01M6	M6	9	10,0	13,0	24,5	4,0	15,0
PCLA02M6	M6	12	13,5	18,0	28,5	6,5	17,5
PCLA02M8	M8	12	13,5	18,0	28,5	6,5	17,5
PCLA03M8	M8	14	16,0	21,5	37,0	10,0	24,0
PCLA03M10	M10	14	16,0	21,5	37,0	10,0	24,0
PCLA04M10	M10	17	19,0	25,5	43,0	10,0	26,0
PCLA04M12	M12	17	19,0	25,5	43,0	10,0	26,0
PCLA05M12	M12	23	23,0	30,0	49,0	12,0	33,0
PCLA05M16	M16	23	23,0	30,0	49,0	12,0	33,0

Part number							Stock*		Price each 1 to 5	
Steel	Stainless	H3	H4	A	A1	B	Steel	StS	Steel	Stainless
PCLA01M4	-	30,0	33,5	40	47,0	7,5	✔	-	9,23 €	-
PCLA01M5	PCLA01M5SS	30,0	33,5	40	47,0	7,5	✔	-	9,23 €	14,39 €
PCLA01M6	PCLA01M6SS	30,0	33,5	40	47,0	7,5	✔	-	9,23 €	14,39 €
PCLA02M6	PCLA02M6SS	41,5	45,5	65	75,0	9,5	✔	-	10,91 €	16,95 €
PCLA02M8	PCLA02M8SS	41,5	45,5	65	75,0	9,5	✔	✔	10,91 €	16,95 €
PCLA03M8	PCLA03M8SS	53,5	58,0	80	91,5	11,0	✔	-	13,39 €	20,89 €
PCLA03M10	PCLA03M10SS	53,5	58,0	80	91,5	11,0	✔	-	13,39 €	20,89 €
PCLA04M10	PCLA04M10SS	61,0	66,0	95	109,0	13,0	✔	-	17,15 €	30,19 €
PCLA04M12	PCLA04M12SS	61,0	66,0	95	109,0	13,0	✔	-	17,15 €	30,19 €
PCLA05M12	PCLA05M12SS	72,0	77,0	110	126,0	15,5	✔	-	20,69 €	36,41 €
PCLA05M16	PCLA05M16SS	72,0	77,0	110	126,0	15,5	✔	-	20,69 €	36,41 €

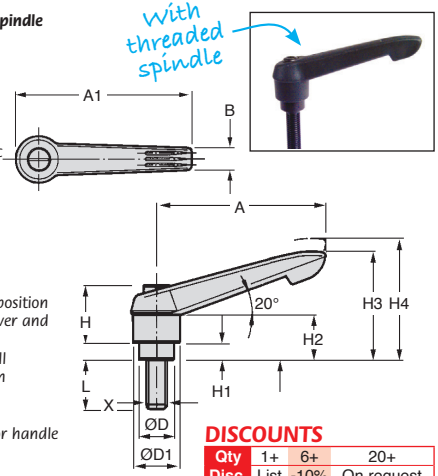
**Depending on availability - Dimensions in mm*

Plastic clamping lever

With threaded spindle

PCLAT
PCLATss

- ***Clamping lever with threaded spindle and tapered tip as per DIN 78***
- *Materials:*
  Spindle: steel (class 5.8) or stainless steel (303)
  Handle: glass fibre reinforced polyamide plastic
  Mechanism: splined diecast zinc
- *Finish: Blackened steel, fine grained surface*
- *Fine grained mat surfact finish*
- *Colour: black*
- *Working temp.: –50°C to +130°C*



Uses

- *The lever is normally in a locked position*
- *Raise the handle to release the lever and turn to required position*
- *When handle is released, lever will automatically lock in new position*

Info.

- *H4 = clearance height required for handle*

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number		Threaded	L					
Steel	Stainless	bolt X	H1	Steel	Stainless	ØD	ØD1	H
PCLA01T5	PCLA01T5SS	M5	4,0	50	25	10,0	13,0	24,5
PCLA01T6	PCLA01T6SS	M6	4,0	50	50	10,0	13,0	24,5
PCLA02T8	PCLA02T8SS	M8	6,5	60	60	13,5	18,0	28,5
PCLA02T10	PCLA02T10SS	M10	6,5	60	60	13,5	18,0	28,5
PCLA03T10	PCLA03T10SS	M10	10,0	60	60	16,0	21,5	37,0
PCLA04T10	-	M10	10,0	90	-	19,0	25,5	43,0
PCLA04T12	PCLA04T12SS	M12	10,0	90	60	19,0	25,5	43,0
PCLA05T12	-	M12	12,0	90	-	23,0	30,0	49,0
PCLA05T16	PCLA05T16SS	M16	12,0	90	60	23,0	30,0	49,0

Part number								Stock*		Price each 1 to 5	
Steel	Stainless	A	H2	H3	H4	A1	B	Steel	Stainless	Steel	Stainless
PCLA01T5	PCLA01T5SS	40	15,0	30,0	33,5	47,0	7,5	✔	✔	11,21 €	15,35 €
PCLA01T6	PCLA01T6SS	40	15,0	30,0	33,5	47,0	7,5	✔	✔	11,21 €	16,59 €
PCLA02T8	PCLA02T8SS	65	17,5	41,5	45,5	75,0	9,5	✔	✔	13,07 €	19,85 €
PCLA02T10	PCLA02T10SS	65	17,5	41,5	45,5	75,0	9,5	✔	✔	13,07 €	19,85 €
PCLA03T10	PCLA03T10SS	80	24,0	53,5	58,0	91,5	11,0	✔	✔	16,13 €	24,59 €
PCLA04T10	-	95	26,0	61,0	66,0	109,0	13,0	✔	-	21,37 €	-
PCLA04T12	PCLA04T12SS	95	26,0	61,0	66,0	109,0	13,0	✔	✔	21,37 €	35,99 €
PCLA05T12	-	110	33,0	72,0	77,0	126,0	15,5	-	-	26,47 €	-
PCLA05T16	PCLA05T16SS	110	33,0	72,0	77,0	126,0	15,5	-	-	26,47 €	42,55 €

**Depending on availability - Dimensions in mm*

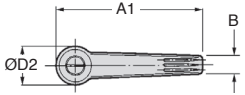
Zamak clamping lever

Stock*

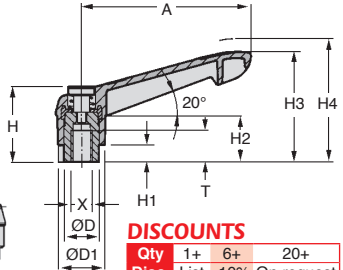
CLBM
CLBMSS

With threaded insert

- ***Clamping lever with threaded insert***
- *Materials:*
  Insert: steel (class5.8)
  or stainless steel (303)
  Handle: diecast zinc, complies with DIN 1743
- *Finish:*
  Steel: blackened steel
  Handle : black plastic coating





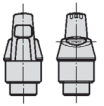


Uses

- *The lever is normally in a locked position*
- *Raise the handle to release the lever and turn to required position*
- *When handle is released, lever will automatically lock in new positior*

Info.

- *H4 = clearance height required for handle*



DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	Thread X	T	ØD	ØD1	ØD2	H	H1	H2
CLB01M4	M4	9	10,0	13,0	14,5	24,5	4,0	15,0
CLB01M5	M5	9	10,0	13,0	14,5	24,5	4,0	15,0
CLB01M6	M6	9	10,0	13,0	14,5	24,5	4,0	15,0
CLB02M6	M6	12	13,5	18,0	19,5	28,5	6,5	17,5
CLB02M8	M8	12	13,5	18,0	19,5	28,5	6,5	17,5
CLB03M8	M8	14	16,0	21,5	23,0	37,0	10,0	24,0
CLB03M10	M10	14	16,0	21,5	23,0	37,0	10,0	24,0
CLB04M10	M10	17	19,0	25,5	27,5	43,0	10,0	26,0
CLB04M12	M12	17	19,0	25,5	27,5	43,0	10,0	26,0
CLB05M12	M12	23	23,0	30,0	32,5	49,0	12,0	33,0
CLB05M16	M16	23	23,0	30,0	32,5	49,0	12,0	33,0

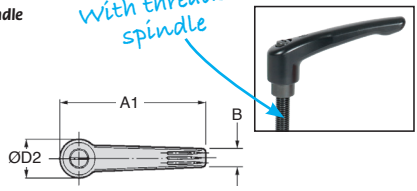
Part number							N° of	Stock*		Price each 1 to 5	
Steel	Stainless	H3	H4	A	A1	B	teeth	Steel	Sts	Steel	Stainless
CLB01M4	-	30,0	33,5	40	47,0	7,5	16	-	-	13,04 €	-
CLB01M5	CLB01M5SS	30,0	33,5	40	47,0	7,5	16	✔	-	13,04 €	18,32 €
CLB01M6	CLB01M6SS	30,0	33,5	40	47,0	7,5	16	✔	-	13,04 €	18,32 €
CLB02M6	CLB02M6SS	41,5	45,5	65	75,0	9,5	20	✔	-	16,48 €	22,78 €
CLB02M8	CLB02M8SS	41,5	45,5	65	75,0	9,5	20	✔	-	16,48 €	22,78 €
CLB03M8	CLB03M8SS	53,5	58,0	80	91,5	11,0	22	✔	-	18,05 €	25,82 €
CLB03M10	CLB03M10SS	53,5	58,0	80	91,5	11,0	22	✔	-	18,05 €	25,82 €
CLB04M10	CLB04M10SS	61,0	66,0	95	109,0	13,0	24	✔	-	20,43 €	33,59 €
CLB04M12	CLB04M12SS	61,0	66,0	95	109,0	13,0	24	✔	-	20,43 €	33,59 €
CLB05M12	CLB05M12SS	72,0	77,0	110	126,0	15,5	26	✔	-	25,36 €	40,91 €
CLB05M16	CLB05M16SS	72,0	77,0	110	126,0	15,5	26	✔	-	25,36 €	41,00 €

**Depending on availability - Dimensions in mm*

With threaded spindle

CLBT
CLBTss

- ***Clamping lever with threaded spindle and flat end as per DIN78***
- *Materials:*
  Spindle: steel (class 5.8) or stainless steel (303)
  Handle: diecast zinc, complies with DIN 1743
- *Finish: Blackened steel*

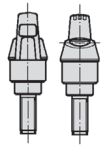


Uses

- *The lever is normally in a locked position*
- *Raise the handle to release the lever and turn to required position*
- *When handle is released, lever will automatically lock in new position*

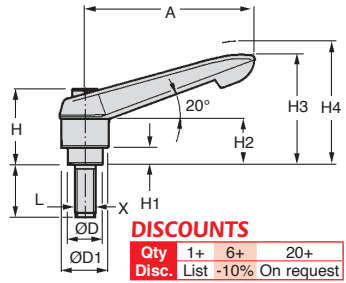
Options

- *Alternate lengths of threaded spindle available for orders of more than 10 pieces*



Info.

- *H4 = clearance height required for handle*



DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number Steel	Part number Stainless	Threaded rod X	H1	L Steel	L Stainless	ØD	ØD1	ØD2
CLB01T5	CLB01T5SS	M5	4,0	50	25	10,0	13,0	14,5
CLB01T6	CLB01T6SS	M6	4,0	50	50	10,0	13,0	14,5
CLB02T8	CLB02T8SS	M8	6,5	60	60	13,5	18,0	19,5
CLB02T10	CLB02T10SS	M10	6,5	60	60	13,5	18,0	19,5
CLB03T10	CLB03T10SS	M10	10,0	60	60	16,0	21,5	23,0
CLB04T10	-	M10	10,0	90	-	19,0	25,5	27,5
CLB04T12	CLB04T12SS	M12	10,0	90	60	19,0	25,5	27,5
CLB05T12	-	M12	12,0	90	-	23,0	30,0	32,5
CLB05T16	CLB05T16SS	M16	12,0	90	60	23,0	30,0	32,5

Part number Steel	Part number Stainless	H	H2	H3	H4	A	A1	B	N° of teeth	Stock* Steel	Stock* Sts	Price each 1 to 5 Steel	Price each 1 to 5 Stainless
CLB01T5	CLB01T5SS	24,5	15,0	30,0	33,5	40	47,0	7,5	16	✔	✔	15,13 €	19,43 €
CLB01T6	CLB01T6SS	24,5	15,0	30,0	33,5	40	47,0	7,5	16	✔	✔	15,13 €	20,93 €
CLB02T8	CLB02T8SS	28,5	17,5	41,5	45,5	65	75,0	9,5	20	✔	✔	18,70 €	25,89 €
CLB02T10	CLB02T10SS	28,5	17,5	41,5	45,5	65	75,0	9,5	20	✔	-	18,70 €	25,82 €
CLB03T10	CLB03T10SS	37,0	24,0	53,5	58,0	80	91,5	11,0	22	✔	-	20,67 €	29,52 €
CLB04T10	-	43,0	26,0	61,0	66,0	95	109,0	13,0	24	✔	-	24,77 €	-
CLB04T12	CLB04T12SS	43,0	26,0	61,0	66,0	95	109,0	13,0	24	✔	✔	24,77 €	37,95 €
CLB05T12	-	49,0	33,0	72,0	77,0	110	126,0	15,5	26	✔	-	31,16 €	-
CLB05T16	CLB05T16SS	49,0	33,0	72,0	77,0	110	126,0	15,5	26	✔	-	31,16 €	48,43 €

**Depending on availability - Dimensions in mm*

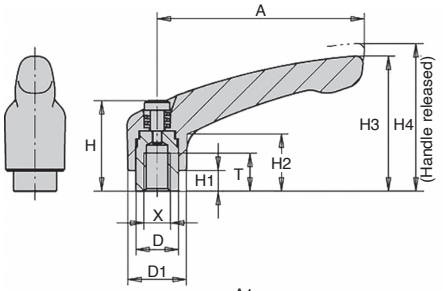
Stainless steel clamping lever

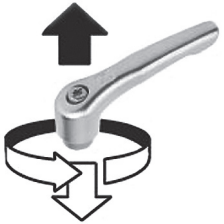
CLAss

With threaded insert

- ***Stainless steel indexing handle with threaded insert***
- *Materials:*
  Precision cast handle: stainless steel 304
  Other components: stainless steel 303
- *Finish:*
  Handle: electrolytically polished stainless steel
  Other components: polished stainless steel







DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

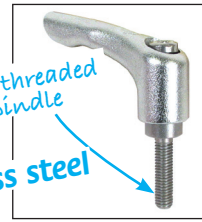
Part number	Thread X	T	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	N° of teeth	Stock*	Price each 1 to 5
CLA01M5/SS	M5	9	10,0	13,0	14,0	24,5	4,0	14,5	31,0	34,0	40	47,0	7	16	-	25,97 €
CLA01M6/SS	M6	9	10,0	13,0	14,0	24,5	4,0	14,5	31,0	34,0	40	47,0	7	16	-	25,97 €
CLA02M6/SS	M6	12	13,5	18,5	19,0	28,5	6,5	17,5	42,5	45,5	65	74,5	10	20	✔	34,98 €
CLA02M8/SS	M8	12	13,5	18,5	19,0	28,5	6,5	17,5	42,5	45,5	65	74,5	10	20	✔	34,98 €
CLA03M8/SS	M8	14	16,0	21,0	22,0	37,0	10,0	24,0	54,5	58,5	80	91,0	11	22	✔	42,17 €
CLA03M10/SS	M10	14	16,0	21,0	22,0	37,0	10,0	24,0	54,5	58,5	80	91,0	11	22	-	42,17 €
CLA04M10/SS	M10	17	19,0	27,0	27,5	43,0	10,0	27,0	63,0	67,5	95	109,0	13	24	✔	49,37 €
CLA04M12/SS	M12	17	19,0	27,0	27,5	43,0	10,0	27,0	63,0	67,5	95	109,0	13	24	-	49,37 €

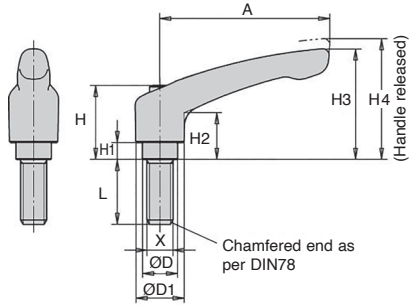
**Subject to availability - Dimensions in mm*

With threaded spindle

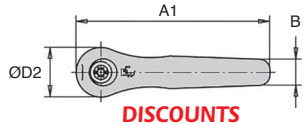
CLAss

- ***Stainless steel indexing handle with threaded spindle***
- *Materials:*
  Precision cast handle: stainless steel 304
  Other components: stainless steel 303
- *Finish:*
  Handle: electrolytically polished stainless steel
  Other components: polished stainless steel









DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	Thread X	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	N° of teeth	Thread length L	Stock*	Price each 1 to 5
CLA01T5/SS	M5	10,0	13,0	14,0	24,5	4,0	14,5	31,0	34,0	40	47,0	7	16	20	-	26,71 €
CLA01T6/SS	M6	10,0	13,0	14,0	24,5	4,0	14,5	31,0	34,0	40	47,0	7	16	30	✔	26,71 €
CLA02T6/SS	M6	13,5	18,5	19,0	28,5	6,5	17,5	42,5	45,5	65	74,5	10	20	50	✔	37,15 €
CLA02T8/SS	M8	13,5	18,5	19,0	28,5	6,5	17,5	42,5	45,5	65	74,5	10	20	50	✔	37,15 €
CLA02T10/SS	M10	13,5	18,5	19,0	28,5	6,5	17,5	42,5	45,5	65	74,5	10	20	50	✔	37,15 €
CLA03T8/SS	M8	16,0	21,0	22,0	37,0	10,0	24,0	54,5	58,5	80	91,0	11	22	50	✔	44,57 €
CLA03T10/SS	M10	16,0	21,0	22,0	37,0	10,0	24,0	54,5	58,5	80	91,0	11	22	50	✔	44,57 €
CLA04T12/SS	M12	19,0	27,0	27,5	43,0	10,0	27,0	63,0	67,5	95	109,0	13	24	50	✔	52,35 €

**Subject to availability - Dimensions in mm*

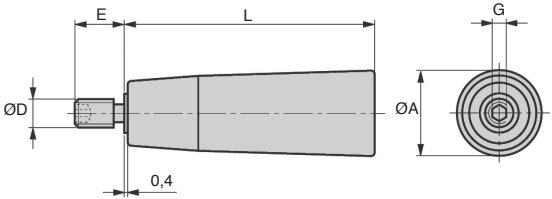
Cylindrical revolving handle

MEP

Technopolymer with steel or stainless steel spindle

- **Cylindrical revolving handle with hexagonal blocking insert**
- Operating element
- Material :
  Black polyamide matt surface
  Threaded shaft: Plated steel or stainless steel





DISCOUNTS

Qty	1+	6+	10+	20+
Disc.	List	-5%	-10%	On request

Part number Steel	Part number Stainless steel	ØA	L	ØD	E	G	Stock* Steel	Stock* Stainless steel	Price each 1 to 5 Steel	Price each 1 to 5 Stainless steel
MEP21-50	MEP21-50/SS	21	50	M6	13	3	✔	✔	7,78 €	23,10 €
MEP23-70	MEP23-70/SS	23	70	M8	14	4	✔	✔	8,97 €	25,56 €
MEP26-90	MEP26-90/SS	26	90	M10	17	5	✔	✔	10,17 €	29,01 €

*Subject to availability - Dimensions in mm

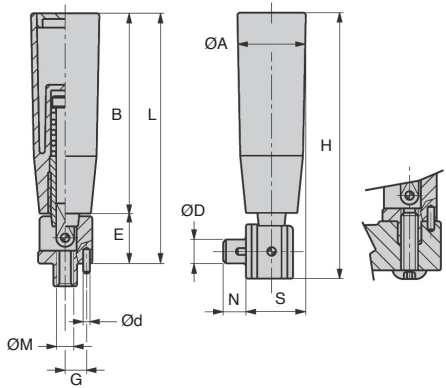
Stock Folding cylindrical revolving handle

Technopolymer with steel or stainless steel spindle

PGR

- ***Folding cylindrical revolving handle with release mechanism***
- *Operating element*
- *Material :*
  Body: Black polyamide matt surface
  Mechanism: Chromed steel or stainless steel





DISCOUNTS

Qty	1+	6+	10+	20+
Disc.	List	-5%	-10%	On request

Part number Steel	Part number Stainless steel	ØA	H	S	ØD	N	ØM	Ød	G	F	E	B	L	Stock* Steel	Price each 1 to 5 Steel	Price each 1 to 5 Stainless steel
PGR21-50	PGR21-50/SS	21	69	19	7	8	M5	2,5	6,3	4	16,5	50	66,5	✔	40,83 €	84,81 €
PGR23-70	PGR23-70/SS	23	92	21	8	8	M6	2,5	7,5	4	16,5	70	86,5	✔	41,29 €	85,47 €
PGR26-90	PGR26-90/SS	26	114	24	8	10	M6	2,5	7,5	4	20	90	110	✔	48,45 €	94,39 €

**Subject to availability - Dimensions in mm*

Crank arm with rotating handle

MH MEP Thermoplastic glass fiber reinforced

- ***Arm with rotating handle***
- *Operating elements*
- *Material:*
  Black glass fibre reinforced polyamide
  Matt surface finish



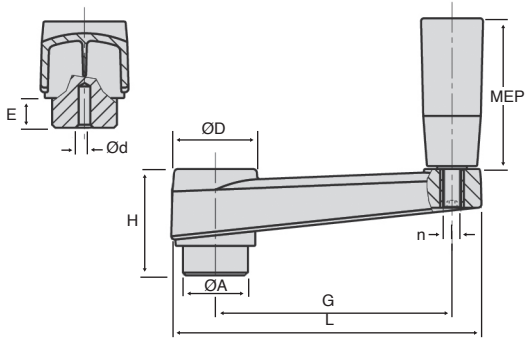
Options

- *Alternative bores on request*
- *Industry standard keyways available*

Modifiable bore



Price (tome 1 p.108)



DISCOUNTS

Qty	1+	10+	20+
Disc.	List	-5%	On request

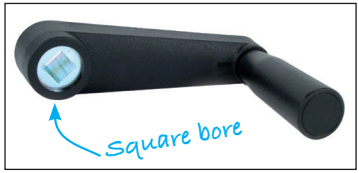
Part number	G	L	ØA	ØD	E	H	Prebored Ød	MEP	n	Stock*	Price each 1 to 9
MH65-MEP	65	87	18	27	10	33	4	21x50	M6	✔	20,10 €
MH80-MEP	80	105	22	30	10	36	4	21x50	M6	✔	22,92 €
MH100-MEP	100	128	24	34	10	40	4	23x70	M8	✔	26,22 €
MH130-MEP	130	162	28	40	14	49	6	26x90	M8	✔	37,00 €
MH160-MEP	160	196	34	45	15	55	6	26x90	M10	✔	46,82 €

**Depending on availability - Dimensions in mm*

Crank arm with rotating handle

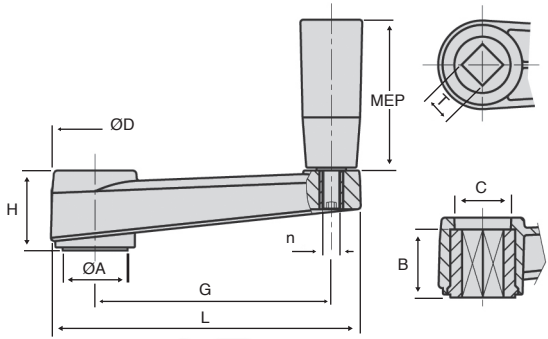
Square bore, thermoplastic glass fiber reinforced MHQMEP

- ***Crank arm with rotating handle and a square through-bored hole***
- *Operating elements*
- *Material:*
  Black glass fibre reinforced polyamide
  Matt surface finish



Options

- *Alternative bores on request*
- *Industry standard keyways available*



DISCOUNTS

Qty	1+	10+	20+
Disc.	List	-5%	On request

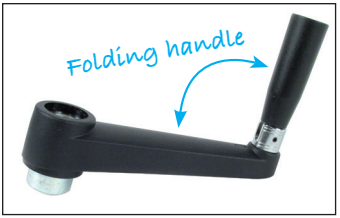
Part number	G	L	ØA	ØD	H	T	B	C	MEP	n	Stock*	Price each 1 to 9
MHQ65-MEP	65	87	18	27	23	8x8	20	16	21x50	M6	✔	21,00 €
MHQ80-MEP	80	105	22	30	26	10x10	22	19	21x50	M6	✔	23,47 €
MHQ100-MEP	100	128	24	34	30	12x12	27	22	23x70	M8	✔	27,90 €
MHQ130-MEP	130	162	28	40	35	14x14	30	25	26x90	M8	✔	37,39 €
MHQ160-MEP	160	196	34	45	40	17x17	34	28	26x90	M10	✔	48,54 €

**Depending on availability - Dimensions in mm*

Crank arm with folding rotating handle

MHPGR Thermoplastic glass fiber reinforced

- **Crank arm with folding rotating handle**
- Operating elements
- Material:
  Black glass fibre reinforced polyamide
  Matt surface finish



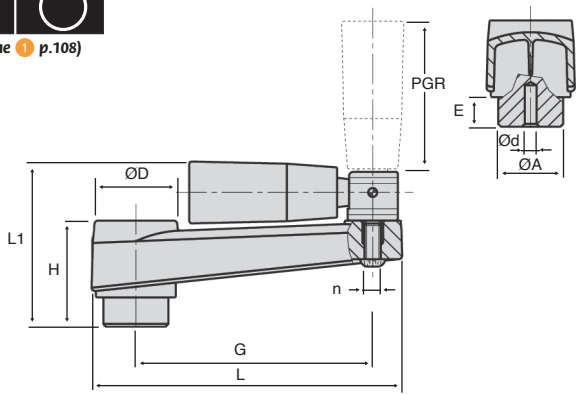
Options

- Alternative bores on request
- Industry standard keyways available

Modifiable bore



Price (tome 1 p.108)



DISCOUNTS

Qty	1+	10+	20+
Disc.	List	-5%	On request

Part number	G	L	L1	ØA	ØD	E	H	Prebored Ød	PGR	n	Stock*	Price each 1 to 9
MH80-PGR	80	105	55	22	30	10	36	4	21x50	M5	-	66,29 €
MH100-PGR	100	128	63	24	34	10	40	4	23x70	M6	✔	67,12 €
MH130-PGR	130	162	74	28	40	14	49	6	23x70	M6	-	78,17 €
MH160-PGR	160	196	86	34	45	15	55	6	26x90	M6	✔	87,14 €

**Depending on availability - Dimensions in mm*

Handwheel with rotating handle

Black phenolic plastic

VPRAM



- ***Handwheel with handle for manual use***
- *Pre-bored*
- *Working temperature: -20°C to +140°C*
- *Materials:*
  - *Wheel: thermosetting plastic*
  - *Hub: galvanised steel or stainless steel*
  - *Handle: thermosetting plastic*
  - *Axle: galvanised steel*

Options

- *Different bore diameters*
- *Keyway*
- *See modification info*

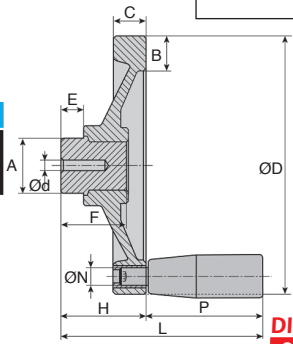
Application

- *All types of machines*

Modifiable bore



Price (tome 1 p.108)



DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-5%	On request

Part number	ØD	H	L	C	B	ØA	Ød	E	F	P	ØN	Stock*	Price each 1 to 5
Steel													
VPRA50-M	50	23	50	11	10	16	4	9	20	13x27	M6	✔	16,75 €
VPRA65-M	65	28	55	13	13	20	4	10	24	13x27	M6	✔	19,55 €
VPRA80-M	80	31	71	14	15	20	4	10	27	17x40	M6	✔	21,39 €
VPRA100-M	100	35	85	14	16	24	4	11	29	21x50	M8	✔	26,50 €
VPRA125-M	125	44	99	16	18	32	6	13	35	23x55	M8	✔	33,73 €
VPRA150-M	150	48	113	18	20	32	6	13	37	25x65	M10	✔	41,63 €
VPRA200-M	200	58	143	21	24	40	6	16	44	28x85	M10	✔	65,84 €
VPRA250-M	250	66	151	22	30	48	6	17	49	28x85	M10	-	93,06 €
VPRA300-M	300	76	161	24	35	58	6	18	55	28x85	M10	-	144,26 €
Stainless steel													
VPRA100-M/SS	100	35	85	14	16	24	4	11	29	21x50	M8	-	46,70 €
VPRA150-M/SS	150	48	113	18	20	32	6	13	37	25x65	M10	-	62,14 €
VPRA200-M/SS	200	58	143	21	24	40	6	16	44	28x85	M10	-	90,81 €

**Depending on availability - Dimensions in mm*

Solid handwheel with revolving handle

Stock*

SHAPT Thermoplastic glass fiber reinforced

- ***Manual operating element***
- *Materials:*
  Wheel: glass fibre reinforced polyamide
  Hub: galvanised steel

Options

- *Different bore diameters*
- *Keyways*
- *See modification*

Application

- *All types of machines*

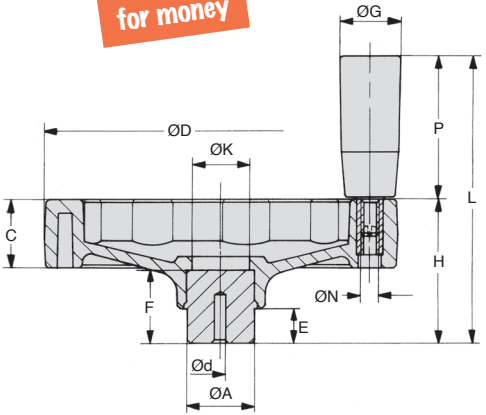


Great value for money

Bore modifications



Price (tome 1 p.110)



DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-5%	On request

Part number	Ød Pre-bore	ØD	H	C	ØA	E	F	ØK	L	ØG	P	ØN	Stock*	Price each 1 to 5
SHA-100-PT	4	100	46	20	24	12	24	18	96	21	50	M6	✔	21,54 €
SHA-125-PT	6	125	51	24	24	12	28	20	101	21	50	M6	✔	26,04 €
SHA-160-PT	6	160	61	28	32	15	31	30	131	23	70	M8	✔	33,84 €
SHA-200-PT	6	200	74	32	40	15	40	35	164	26	90	M10	✔	48,62 €

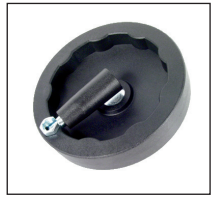
**Subject to availability - Dimensions in mm*

Solid handwheel with folding handle

Thermoplastic glass fiber reinforced SHAPTR

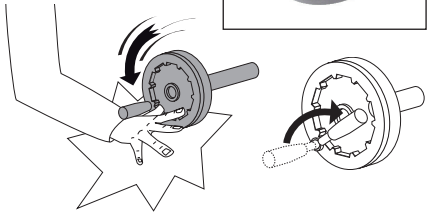
- **Manual operating element**
- Materials:
  Wheel: glass fibre reinforced polyamide
  Hub: galvanised steel

Great value for money



Info.

- Revolving handle folds away for safety



Options

- Different bore diameters
- Keyways
- See modification

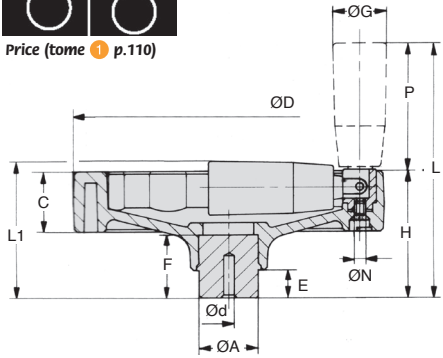
Application

- All types of machines

Bore modifications



Price (tome 1 p.110)



DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-5%	On request

Part number	Ød Pre-bore	ØD	H	C	ØA	E	F	L	L1	ØG	P	ØN	Stock*	Price each 1 to 5
SHA-100-PTR	4	100	46	20	24	12	24	98	50	21	52	M4	✔	50,78 €
SHA-125-PTR	6	125	51	24	24	12	28	103	54	21	52	M4	✔	56,39 €
SHA-160-PTR	6	160	61	28	32	15	31	133	65	23	72	M5	✔	63,97 €
SHA-200-PTR	6	200	74	32	40	15	40	166	79	26	92	M6	✔	80,19 €

**Subject to availability - Dimensions in mm*

Solid handwheel without handle

SHA Thermoplastic glass fiber reinforced

- ***Manual operating element***
- *Materials:*
  Wheel: glass fibre reinforced polyamide
  Hub: galvanised steel

Great value for money



Options

- *Different bore diameters*
- *Keyways*
- *See modification info*

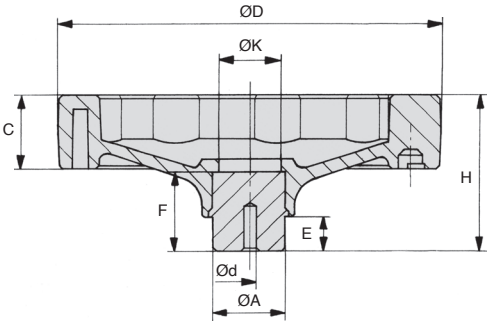
Application

- *All types of machines*

Bore modifications



Price (tome 1 p.110)



DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-5%	On request

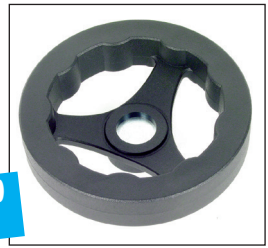
Part number	Ød Pre-bore	ØD	H	C	ØA	E	F	ØK	Stock*	Price each 1 to 5
SHA-100	4	100	46	20	24	12	24	18	✔	14,49 €
SHA-125	6	125	51	24	24	12	28	20	-	17,02 €
SHA-160	6	160	61	28	32	15	31	30	-	25,19 €
SHA-200	6	200	74	32	40	15	40	35	✔	38,17 €

**Subject to availability - Dimensions in mm*

3 spoked handwheel without handle

Thermoplastic glass fiber reinforced V3RA

- ***Manual operating element***
- *Materials:*
  Wheel: glass fibre reinforced polyamide
  Hub: galvanised steel



New Ø300
Ø375

Options

- *Different bore diameters*
- *Keyways*
- *See modification info*

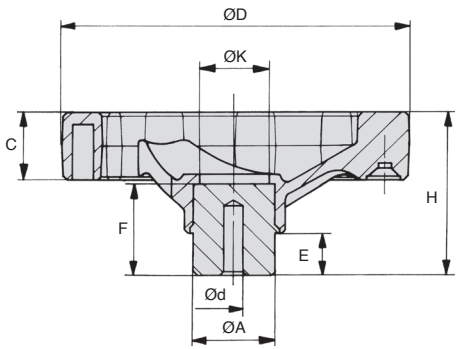
Application

- *All types of machines*

Bore modifications



Price (tome 1 p.110)



DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-5%	On request

Part number	Ød pre-bore	ØD	H	C	ØA	E	F	ØK	Stock*	Price each 1 to 5
V3RA-100	4	100	46	20	24	12	24	18	✔	11,65 €
V3RA-125	6	125	51	24	24	12	28	20	✔	14,69 €
V3RA-160	6	160	61	28	32	15	31	30	✔	20,76 €
V3RA-200	6	200	74	32	40	15	40	35	✔	31,30 €
V3RA-250	6	250	83	34	48	17	49	35	-	47,77 €
V3RA-300	6	300	93	36	58	18	53	48	New -	77,73 €
V3RA-375	6	375	104	38	58	18	53	48	New -	115,32 €

**Subject to availability - Dimensions in mm*

3 spoked handwheel with revolving handle

V3RAPT Thermoplastic glass fiber reinforced

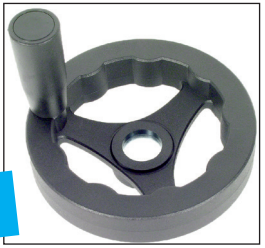
- ***Manual operating element***
- *Freely revolving handle for manual operation*
- *Materials:*
  Wheel: glass fibre reinforced polyamide
  Hub: galvanised steel

Options

- *Different bore diameters*
- *Keyways*
- *See modification info*

Application

- *All types of machines*

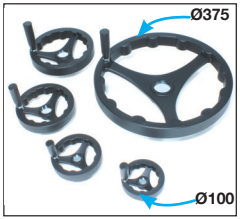


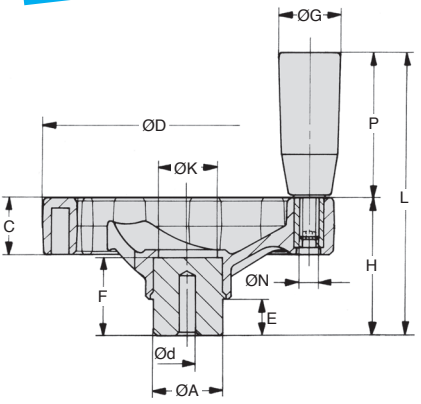
New Ø300 Ø375

Bore modifications



Price (tome 1 p.110)





DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-5%	On request

Part number	Ød pre-bore	ØD	H	C	ØA	E	F	ØK	L	ØG	P	ØN	Stock*	Price each 1 to 5
V3RA-100-PT	4	100	46	20	24	12	24	18	96	21	50	M6	✔	19,32 €
V3RA-125-PT	6	125	51	24	24	12	28	20	101	21	50	M6	✔	22,36 €
V3RA-160-PT	6	160	61	28	32	15	31	30	131	23	70	M8	✔	28,81 €
V3RA-200-PT	6	200	74	32	40	15	40	35	164	26	90	M10	✔	40,00 €
V3RA-250-PT	6	250	83	34	48	17	49	35	173	26	90	M10	-	56,80 €
V3RA-300-PT	6	300	93	36	58	18	53	48	183	26	90	M10	New -	90,25 €
V3RA-375-PT	6	375	104	38	58	18	53	48	194	26	90	M10	New -	132,87 €

**Subject to availability - Dimensions in mm*

3 spoked handwheel with folding handle

Thermoplastic glass fiber reinforced V3RAPTR

- **Manual operating element**
- Freely revolving handle for manual operation
- Materials:
  Wheel: glass fibre reinforced polyamide
  Hub: galvanised steel



New Ø300
Ø375

Info.

- Revolving handle folds away for safety

Options

- Different bore diameters
- Keyways
- See modification info

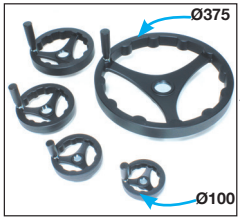
Application

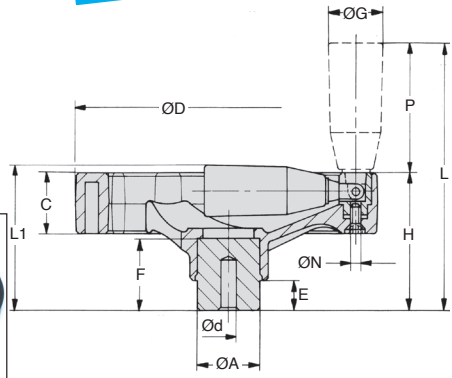
- All types of machines

Bore modifications



Price (tome 1 p.110)





DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-5%	On request

Part number	Ød pre-bore	ØD	H	C	ØA	E	F	L	L1	ØG	P	ØN	Stock*	Price each 1 to 5
V3RA-100-PTR	4	100	46	20	24	12	24	100	50	21	52	M4	✔	45,71 €
V3RA-125-PTR	6	125	51	24	24	12	28	105	54	21	52	M4	✔	50,49 €
V3RA-160-PTR	6	160	61	28	32	15	31	135	65	23	74	M5	✔	57,36 €
V3RA-200-PTR	6	200	74	32	40	15	40	168	79	26	94	M6	✔	68,63 €
V3RA-250-PTR	6	250	83	34	48	17	49	173	89	26	94	M6	-	82,64 €
V3RA-300-PTR	6	300	93	36	58	18	53	184	100	26	94	M6	New	117,01 €
V3RA-375-PTR	6	375	104	38	58	18	53	195	110	26	94	M6	New	148,05 €

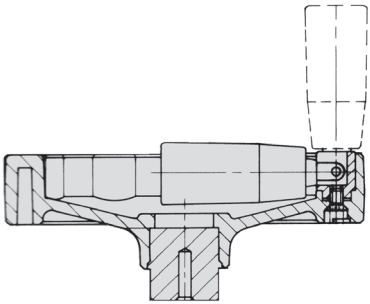
**Subject to availability - Dimensions in mm*

HANDWHEELS
PLEASE FILL IN THE DETAILS

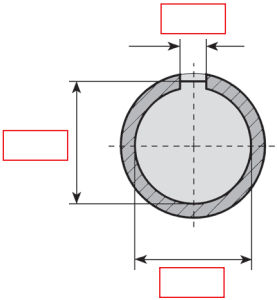
Please complete this form and return it to us!
Email address: cial2@hpceurope.com
Tel: +33(0)4 37 496 496

Wheel diameter

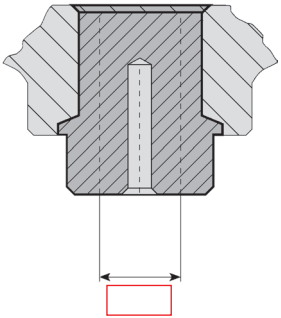
Ø50		Ø200	
Ø65		Ø250	
Ø80		Ø300	
Ø100		Ø375	
Ø125			
Ø150			



Keyway

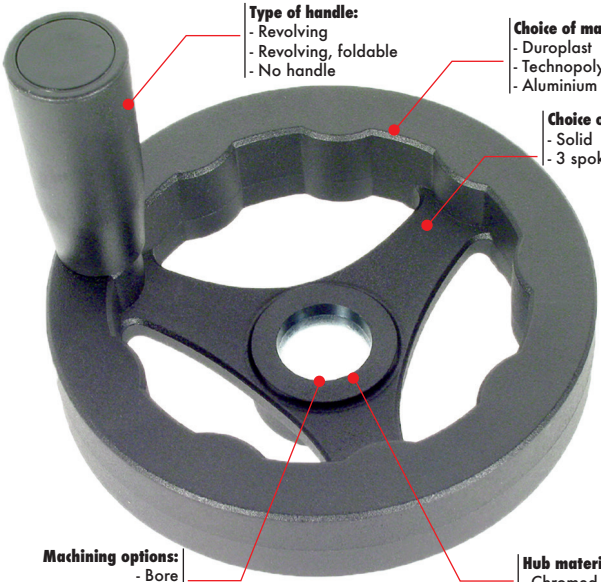


Bore modifications



MODIFIED

HANDWHEELS



EXAMPLES OF HAND WHEELS ALREADY SUPPLIED



Handwheels and cranks

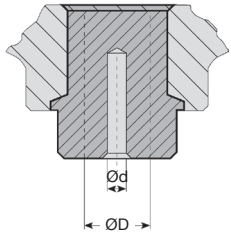
MH VPRA

Bore modifications

Info.

Bore modifications valid for VPRA series handwheels and MH cranks.

Order example:
VPRA-100-M-14: *Handwheel with rotating handle, ext. diam. 100mm, bore diam. 14mm*



DISCOUNTS MH

Qty	1+	10+	20+
Disc.	List	-5%	On request

DISCOUNTS VPRA

Qty	1+	6+	20+
Disc.	List	-5%	On request

Part number	Ød Pre-bore	ØD Max. bore	ØD Possible	Price each
Crank				
MH65	4	14	6-8-9-10-12-14	27,73 €
MH80	4	16	6-8-9-10-12-14	30,41 €
			15-16	31,84 €
MH100	4	18	6-8-9-10-12-14	33,23 €
			15-16-18	34,66 €
MH130	6	20	8-9-10-12-13-14	43,36 F
			15-16-18-20	44,79 €
MH160	6	25	10-12-13-14	52,85 €
			15-16-18-20	54,27 €
			22-24-25	64,53 €
Handwheel				
VPRA50	4	10	6-8-9-10	22,19 €
VPRA65	4	10	6-8-9-10	25,00 €
VPRA80	4	10	6-8-9-10	26,84 €
VPRA100	4	15	8-9-10-12-13-14	31,95 €
			15	32,90 €
VPRA125	6	18	8-9-10-12-14	39,18 €
			15-16-18	40,13 €
VPRA150	6	20	8-9-10-12-14	47,08 €
			15-16-18-19-20	48,03 €
VPRA200	6	26	15-16-18-19-20	72,24 €
			22-24-25	79,00 €
			26	82,86 €
VPRA250	6	30	15-16-18-19-20	99,45 €
			22-24-25	106,22 €
			26-28-30	110,09 €
VPRA300	6	46	22-25	157,42 €
			26-28-30	161,28 €

Dimensions in mm

Bore modification and keyways

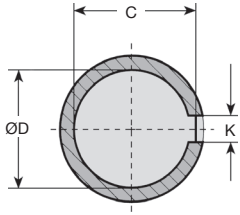
MH
VPRA

Info.

Bore modifications valid for VPRA series handwheels and MH cranks.

Order example:

VPRA-100-M-14K : *Handwheel with rotating handle, ext. diam. 100mm, bore diam. 14mm, normal keyway 5mm.*



DISCOUNTS MH

Qty	1+	10+	20+
Disc.	List	-5%	On request

DISCOUNTS VPRA

Qty	1+	6+	20+
Disc.	List	-5%	On request

Part number	Ød Pre-bore	ØD Max. bore	Maxi. K	Maxi. C 0/+0,1	ØD Possible	Price each
Crank						
MH65	4	12	4	13,8	6-8-9-10-12	57,72 €
MH80	4	12	4	13,8	6-8-9-10-12	60,39 €
MH100	4	14	5	16,3	6-8-9-10-12-14	63,21 €
MH130	6	18	6	20,8	8-9-10-12-13-14	73,34 €
					15-16-18	78,10 €
MH160	6	20	6	22,8	10-12-13-14	82,83 €
					15-16-18-20	87,59 €
Handwheel						
VPRA50	4	6	2	8	6	42,00 €
VPRA65	4	8	2	9	6-8	44,80 €
VPRA80	4	8	2	9	6-8	46,64 €
VPRA100	4	12	4	13,8	8-9-10-12	55,90 €
VPRA125	6	14	5	16,8	8-9-10-12-14	61,19 €
VPRA150	6	18	6	20,8	8-9-10-12-14-15-16	69,08 €
					15-16-18	70,03 €
VPRA200	6	20	6	22,8	15-16-18-19-20	94,24 €
VPRA250	6	26	8	29,3	15-16-18-19-20	121,46 €
					22-24-25	128,23 €
					26	132,09 €
VPRA300	6	42	12	45,7	20-22-25	183,82 €
					26-28-30	187,69 €
					32-35-40-42	On request

Dimensions in mm

Hand wheels

V3RA SHA

Modification to bores

Info.

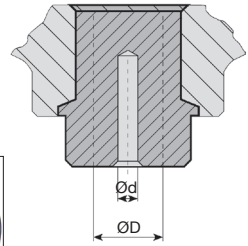
It is possible to modify the bores of the V3RA and SHA series to suit your requirements. This is possible for versions without a handle, with a revolving handle and with a folding revolving handle.

Ordering example

V3RA-125-PT-16: *A 3 spoke hand wheel with revolving handle, external diameter 125mm and 16mm bore diameter*







DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-5%	On request

Part number	Ød Pre-bore	ØD Max. bore	Bore	Price each 1 to 5
V3RA-100	4	18	8-9-10-11-12-13-14	20,30 €
			15-16-17-18	21,42 €
V3RA-125	6	18	8-9-10-11-12-13-14	22,53 €
			15-16-17-18	23,69 €
V3RA-160	6	24	8-9-10-11-12-13-14	28,61 €
			15-16-17-18-19-20	29,74 €
			21-22-23-24	39,26 €
V3RA-200	6	32	8-9-10-11-12-13-14	39,21 €
			15-16-17-18-19-20	40,36 €
			21-22-23-24-25	49,83 €
			26-27-28-29-30	55,22 €
V3RA-250	6	36	15-16-17-18-19-20 New	52,76 €
			21-22-23-24-25 New	59,52 €
			26-27-28-29-30-32 New	63,38 €
V3RA-300	6	36	15-16-17-18-19-20 New	84,10 €
			21-22-23-24-25 New	90,87 €
			26-27-28-29-30-32 New	94,72 €
V3RA-375	6	36	15-16-17-18-19-20 New	121,69 €
			21-22-23-24-25 New	128,45 €
			26-27-28-29-30-32 New	132,31 €
SHA-100	4	18	8-9-10-11-12-13-14	22,36 €
			15-16-17-18	23,50 €
SHA-125	6	18	8-9-10-11-12-13-14	24,89 €
			15-16-17-18	26,02 €
SHA-160	6	24	8-9-10-11-12-13-14	33,08 €
			15-16-17-18-19-20	34,19 €
			21-22-23-24	43,71 €
SHA-200	6	32	8-9-10-11-12-13-14	46,06 €
			15-16-17-18-19-20	47,20 €
			21-22-23-24-25	56,69 €
			26-27-28-29-30	62,10 €

Dimensions in mm

Modification to bores

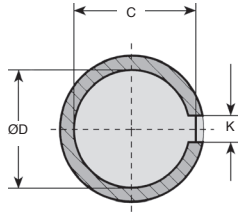
V3RA SHA

Info.

It is possible to modify the bores and keyways of the V3RA and SHA series to suit your requirements. This is possible for versions without a handle, with a revolving handle and with a folding revolving handle

Ordering example

V3RA-125-PT-14K: *A 3 spoke hand wheel with revolving handle, external diameter 125mm, 14mm bore diameter and 5mm standardised keyway*







DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-5%	On request

Part number	Ød Pre-bore	ØD Max. bore	K max.	C 0/+0,1 max.	Bore	Price each 1 to 5
V3RA-100	4	14	5	16,3	8-9-10-11-12-13-14	51,16 €
V3RA-125	6	14	5	16,3	8-9-10-11-12-13-14	53,41 €
V3RA-160	6	20	6	22,8	8-9-10-11-12-13-14	59,43 €
					15-16-17-18-19-20	60,60 €
V3RA-200	6	28	8	31,3	8-9-10-11-12-13-14	70,06 €
					15-16-17-18-19-20	71,18 €
					21-22-23-24-25	80,69 €
					26-27-28	86,12 €
V3RA-250	6	32	10	35,3	15-16-17-18-19-20 New	74,72 €
					21-22-23-24-25 New	81,48 €
					26-27-28-29-30-32 New	85,33 €
V3RA-300	6	32	10	35,3	15-16-17-18-19-20 New	106,06 €
					21-22-23-24-25 New	112,83 €
					26-27-28-29-30-32 New	116,68 €
V3RA-375	6	32	10	35,3	15-16-17-18-19-20 New	143,65 €
					21-22-23-24-25 New	150,41 €
					26-27-28-29-30-32 New	154,27 €
SHA-100	4	14	5	16,3	8-9-10-11-12-13-14	53,24 €
SHA-125	6	14	5	16,3	8-9-10-11-12-13-14	55,74 €
SHA-160	6	20	6	22,8	8-9-10-11-12-13-14	63,90 €
					15-16-17-18-19-20	34,19 €
SHA-200	6	28	8	31,3	8-9-10-11-12-13-14	76,91 €
					15-16-17-18-19-20	78,04 €
					21-22-23-24-25	87,59 €
					26-27-28	93,01 €

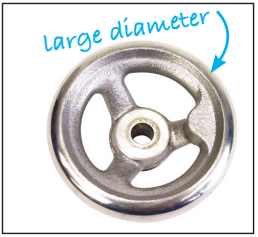
Dimensions in mm

Handwheel without handle

HLU

Aluminium

- ***Hand wheel***
- *Material: aluminium*
- *Finish: edges machined and polished*
- *Keyway conforms to DIN6885-1*

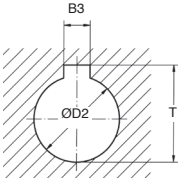


Advantages

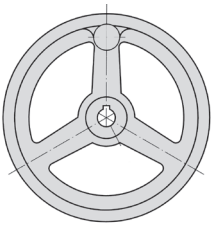
- *Light*

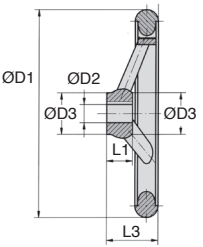
Options

- *A version with a revolving handle exists, see* ***HLUT (tome 1 p.113)***



Keyway





DISCOUNTS

Qty	1+	6+	15+	20+
Disc.	List	-5%	-10%	On request

Part number with keyway	Part number without keyway	ØD1	ØD2 (H7)	ØD3	L1	L3	B3 (P9)	T	Stock* with keyway	Stock* without keyway	Price each 1 to 5 with keyway	Price each 1 to 5 without keyway
With 3 spokes												
HLU80-10K	HLU80-10	80	10	24	16	29	3	11,4	-	-	22,36 €	19,09 €
HLU100-10K	HLU100-10	100	10	26	17	33	3	11,4	✔	-	24,52 €	20,85 €
HLU125-12K	HLU125-12	125	12	28	18	36	4	13,8	✔	✔	30,08 €	26,18 €
HLU140-14K	HLU140-14	140	14	30	19	39	5	16,3	✔	-	35,25 €	31,25 €
HLU160-14K	HLU160-14	160	14	32	20	40	5	16,3	-	-	41,26 €	37,05 €
HLU180-16K	HLU180-16	180	16	35	22	43	5	18,3	-	-	49,00 €	44,74 €
HLU200-18K	HLU200-18	200	18	38	24	45	6	20,8	✔	-	59,93 €	55,37 €
With 5 spokes												
HLU250-22K	HLU250-22	250	22	45	28	50	6	24,8	-	✔	96,87 €	90,90 €
HLU315-26K	HLU315-26	315	26	53	33	56	8	29,3	-	-	151,63 €	145,82 €
HLU400-30K	HLU400-30	400	30	65	38	63	8	33,3	-	-	277,93 €	269,17 €
HLU500-34K	HLU500-34	500	34	78	45	72	10	37,3	-	-	464,60 €	453,77 €

**Subject to availability - Dimensions in mm*

Alu Handwheel with revolving handle

Aluminium

HLUT

- ***Hand wheel with revolving handle***
- *Materials:*
  Wheel: aluminium
  Handle: aluminium with steel axle
- *Finish: edges machined and polished*
- *Keyway conforms to DIN6885-1*

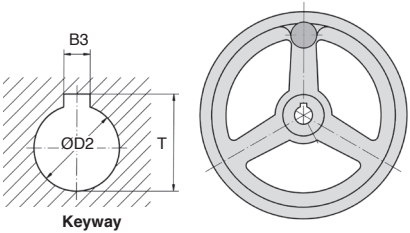


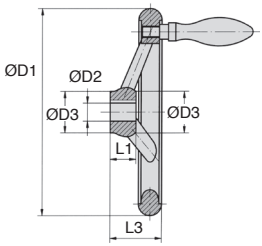
Advantages

- *Light*

Options

- *Handwheel without handle* **HLU** ***(tome 1 p.112)***





DISCOUNTS

Qty	1+	6+	15+	20+
Disc.	List	-5%	-10%	On request

Part number With keyway	Part number Without keyway	Revolving handle	ØD1	ØD2 (H7)	ØD3	L1	B3 L3 (P9)	B3 T	Stock* With keyway	Stock* Without keyway	Price each 1 to 5 With keyway	Price each 1 to 5 Without keyway
With 3 spokes												
HLUT80-10K	HLUT80-10	Ø16xM6x54,5	80	10	24	16	29	3 11,4	✔	-	46,34 €	42,86 €
HLUT100-10K	HLUT100-10	Ø16xM6x54,5	100	10	26	17	33	3 11,4	✔	-	49,38 €	44,52 €
HLUT125-12K	HLUT125-12	Ø20xM8x67,0	125	12	28	18	36	4 13,8	✔	-	59,49 €	54,14 €
HLUT140-14K	HLUT140-14	Ø20xM8x67,0	140	14	30	19	39	5 16,3	✔	-	66,37 €	60,73 €
HLUT160-14K	HLUT160-14	Ø25xM10x83,0	160	14	32	20	40	5 16,3	✔	✔	77,73 €	73,74 €
HLUT180-16K	HLUT180-16	Ø25xM10x83,0	180	16	35	22	43	5 18,3	✔	-	89,70 €	85,56 €
HLUT200-18K	HLUT200-18	Ø25xM10x83,0	200	18	38	24	45	6 20,8	✔	✔	100,66 €	95,68 €
With 5 spokes												
HLUT250-22K	HLUT250-22	Ø32xM12x105,5	250	22	45	28	50	6 24,8	-	✔	151,02 €	145,42 €
HLUT315-26K	HLUT315-26	Ø32xM12x105,5	315	26	53	33	56	8 29,3	-	-	206,16 €	200,33 €
HLUT400-30K	HLUT400-30	Ø36xM16x117,0	400	30	65	38	63	8 33,3	-	-	340,86 €	334,28 €
HLUT500-34K	HLUT500-34	Ø36xM16x117,0	500	34	78	45	72	10 37,3	-	-	531,93 €	518,91 €

**Subject to availability - Dimensions in mm*

Spoked handwheel

HLUss

316 stainless steel

- ***Handwheel (only)***
- *Conforms to DIN950*
- *Versions with and without DIN6885-1 keyways*
- *Material:*
  Stainless steel 1.4401 (316)
  Finish: turned and polished

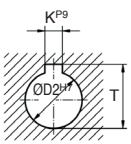
316 stainless steel

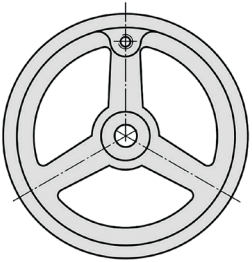


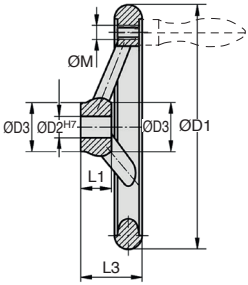
Accessory

- ***HLUMss** rotating handle*
(tome 1 p.115)

DIN 6885-1







DISCOUNTS

Qty	1+	3+	5+	10+
Disc.	List	-5%	-10%	On request

Part number	ØD1	ØD2	ØD3	L1	L3	M	K	T	N° of spokes	Price each 1 to 2
No keyway										
HLU100-10/SS	100	10	26	17	33	M6	-	-	3	65,57 €
HLU125-12/SS	125	12	28	18	36	M8	-	-	3	94,02 €
HLU160-16/SS	160	16	32	20	40	M10	-	-	3	138,63 €
HLU200-18/SS	200	18	38	24	45	M10	-	-	3	243,37 €
With keyway										
HLU100-10K/SS	100	10	26	17	33	M6	3	11,4	3	68,85 €
HLU125-12K/SS	125	12	28	18	36	M8	4	13,8	3	97,34 €
HLU160-16K/SS	160	16	32	20	40	M10	5	18,3	3	141,92 €
HLU200-18K/SS	200	18	38	24	45	M10	6	20,8	3	248,25 €

All dimensions in mm

Rotating handle for spoked handwheel

316 stainless steel

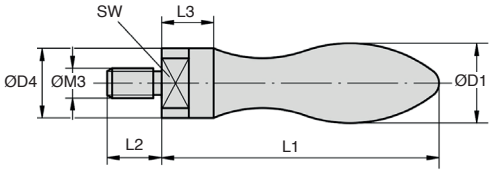
HLUMss

- **Rotating handle (only)**
- Similar to DIN98
- Material:
  1.4401 (316) stainless steel
  Polished finish

Accessory

- See stainless steel spoked handwheel **HLUss (tome 1 p.114)**





DISCOUNTS

Qty	1+	3+	5+	10+
Disc.	List	-5%	-10%	On request

Part number	ØD1	ØM3	ØD4	L1	L2	L3	SW	Price each 1 to 2
HLUM-M6/SS	16	M6	11	57	12	11,45	8	27,20 €
HLUM-M8/SS	21	M8	14	71	14	13,45	10	34,38 €
HLUM-M10/SS	25	M10	16	86	16	14,45	11	44,15 €

All dimensions in mm

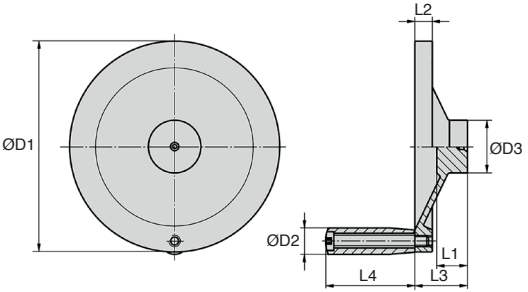
Solid handwheel with rotating handle Sta

VPPTss

304 stainless steel

- ***Handwheel with rotating handle***
- *Finish: turned, natural*
- *Solid hub with centering point*
- *Material:*
  1.4301 stainless steel





DISCOUNTS

Qty	1+	3+	5+	10+
Disc.	List	-5%	-10%	On request

Part number	ØD1	ØD2	ØD3	L1	L2	L3	L4	Price each 1 to 2
VPPT76/SS	76,20	9,91	22,1	17,02	6,10	27,9	37,90	76,63 €
VPPT101/SS	101,60	11,94	25,9	18,03	7,87	31,7	39,88	86,12 €
VPPT151/SS	152,40	19,05	38,1	22,10	12,70	38,1	63,50	171,31 €
VPPT203/SS	203,20	22,10	45,7	24,13	14,22	45,7	76,20	220,71 €
VPPT254/SS	254,00	22,10	50,8	26,67	15,75	50,8	76,20	344,83 €

All dimensions in mm



FREE CATALOGUES

1, 2, 3 PRODUCTS SOLD INDIVIDUALLY

€ VOLUME DISCOUNT



MINIMUM ORDER 20€*



MADE TO MEASURE AVAILABLE



FAST QUOTES & ORDERS

* Certain conditions apply - Deliveries to mainland France only

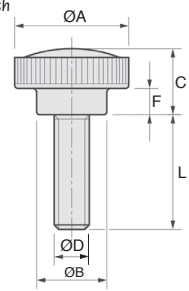
Knurled knob, male

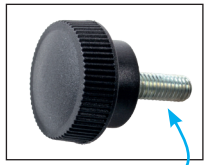
BMM Technopolymer, steel or stainless steel stud

- ***Small fixing knob***
- *Materials:*
  Black polyamide, matt surface finish
  Threaded stud: chromed steel or stainless steel

Info

- *Can be used with* ***BMF*** *female knurled knobs to make a manual bolted assembly*





DISCOUNTS

Qty	1+	10+	20+	50+	100+	200+
Disc.	Net	-5%	-10%	-15%	-20%	On request

Part number								Weight	Price each 1 to 9	
Steel	Stainless steel	ØA	ØB	C	ØD	L	F	(g)	Steel	Stainless steel
BMM15-M4-10		15	11	14	M4	10	7	4	1,33 €	
BMM15-M4-15		15	11	14	M4	15	7	4	1,42 €	
BMM15-M5-10		15	11	14	M5	10	7	4	1,37 €	
BMM22-M4-10		22	15	14	M4	10	6	6	1,42 €	
BMM22-M4-25		22	15	14	M4	25	6	6	1,50 €	
BMM22-M5-10	BMM22-M5-10/SS	22	15	14	M5	10	6	7	1,42 €	3,75 €
BMM22-M5-15		22	15	14	M5	15	6	7	1,42 €	
BMM22-M6-10		22	15	14	M6	10	6	8	1,50 €	
BMM22-M6-20		22	15	14	M6	20	6	9	1,50 €	
BMM22-M6-30		22	15	14	M6	30	6	11	1,61 €	
BMM22-M6-40		22	15	14	M6	40	6	13	1,66 €	
BMM26-M5-10		26	16	15	M5	10	6	9	1,66 €	
BMM26-M5-25		26	16	15	M5	25	6	11	1,66 €	
BMM26-M6-10		26	16	15	M6	10	6	10	1,66 €	
BMM26-M6-20	BMM26-M6-20/SS	26	16	15	M6	20	6	12	1,66 €	3,88 €
BMM26-M6-40		26	16	15	M6	40	6	15	1,75 €	
BMM26-M8-25		26	16	15	M8	25	6	17	1,84 €	
BMM32-M6-20		32	19	18	M6	20	8	14	1,84 €	
BMM32-M6-40		32	19	18	M6	40	8	18	1,94 €	
BMM32-M8-15		32	19	18	M8	15	8	19	2,03 €	
BMM32-M8-40		32	19	18	M8	40	8	27	2,17 €	

All dimensions in mm

Knurled knob, female

Technopolymer, brass insert

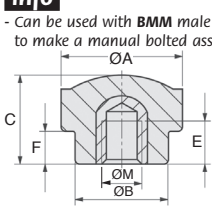
BMF

- ***Small fixing knob***
- *Materials:*
  Black polyamide, matt surface finish
  Brass insert

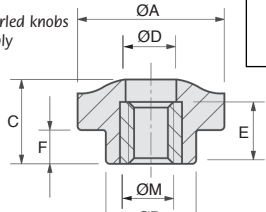


Info

- *Can be used with* ***BMM*** *male knurled knobs to make a manual bolted assembly*



Blind



Through threaded

DISCOUNTS

Qty	1+	10+	20+	50+	100+	200+
Disc.	Net	-5%	-10%	-15%	-20%	On request

Part number	ØA	ØB	C	ØM	ØD	E	F	Weight (g)	Price each 1 to 9
Blind									
BMF15-M4	15	11	14	M4	-	9	7	4	1,46 €
BMF15-M5	15	11	14	M5	-	9	7	4	1,50 €
BMF22-M5	22	15	14	M5	-	8	6	8	1,71 €
BMF22-M6	22	15	14	M6	-	8	6	8	1,71 €
BMF22-M8	22	15	14	M8	-	8	6	7	1,84 €
BMF26-M5	26	16	15	M5	-	8	6	11	1,75 €
BMF26-M6	26	16	15	M6	-	8	6	11	1,90 €
BMF26-M8	26	16	15	M8	-	8	6	10	1,90 €
BMF32-M6	32	19	18	M6	-	9	8	13	1,94 €
BMF32-M8	32	19	18	M8	-	9	8	14	2,03 €
Through threaded									
BMF15-M4/FP	15	11	14	M4	7	11	7	4	2,07 €
BMF15-M5/FP	15	11	14	M5	7	11	7	4	2,17 €
BMF22-M5/FP	22	15	14	M5	9	11	6	7	2,27 €
BMF22-M6/FP	22	15	14	M6	9	11	6	7	2,31 €
BMF22-M8/FP	22	15	14	M8	9	11	6	7	2,35 €
BMF26-M5/FP	26	16	15	M5	9	11	6	9	2,35 €
BMF26-M6/FP	26	16	15	M6	9	11	6	9	2,40 €
BMF26-M8/FP	26	16	15	M8	9	11	6	9	2,40 €
BMF32-M6/FP	32	19	18	M6	9	11	8	11	2,44 €
BMF32-M8/FP	32	19	18	M8	9	11	8	12	2,49 €

All dimensions in mm

Small 6 lobe threaded handle

GLB Technopolymer with brass insert

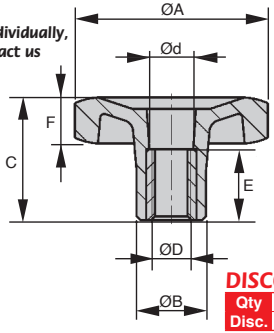
- **Small 6 lobe handle with a tapped insert (blind or fully threaded)**
- Material :
  Matt black polyamide with brass or stainless steel insert

Brass or stainless steel insert



Info.

- **Not sold individually, please contact us for details**



DISCOUNTS

Qty	1+	10+	20+	50+	100+	200+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number Steel	S/steel	ØA	ØB	C	F	ØD	E	Ød	Stock* Steel	Price each 1 to 9 Steel	S/steel
Handle, blind thread											
GLB30-M6	GLB30-M6/SS	30	14	24	15	M6	13	-	✔	2,88 €	7,28 €
GLB30-M8	-	30	14	24	15	M8	13	-	✔	3,03 €	-
GLB40-M6	GLB40-M6/SS	40	16	28	18	M6	13	-	✔	3,38 €	8,24 €
GLB40-M8	GLB40-M8/SS	40	16	28	18	M8	13	-	✔	3,38 €	8,28 €
GLB50-M8	GLB50-M8/SS	50	18	32	20	M8	15	-	✔	3,98 €	10,44 €
GLB50-M10	GLB50-M10/SS	50	18	32	20	M10	16	-	✔	4,26 €	10,44 €
GLB60-M12	GLB60-M12/SS	60	20	36	22	M12	18	-	✔	5,75 €	16,92 €
GLB70-M12	-	70	23	40	24	M12	18	-	✔	7,18 €	-
GLB70-M14	-	70	23	40	24	M14	20	-	✔	8,98 €	-
GLB70-M16	-	70	23	40	24	M16	20	-	✔	9,60 €	-
Handle fully threaded											
GLB30-M6/FP	GLB30-M6/FP/SS	30	14	24	15	M6	11	8	✔	3,57 €	12,36 €
GLB30-M8/FP	-	30	14	24	15	M8	11	10	✔	3,90 €	-
GLB40-M6/FP	GLB40-M6/FP/SS	40	16	28	18	M6	15	7	✔	4,38 €	13,74 €
GLB40-M8/FP	GLB40-M8/FP/SS	40	16	28	18	M8	15	11	✔	4,66 €	14,61 €
GLB50-M8/FP	GLB50-M8/FP/SS	50	18	32	20	M8	18	11	✔	5,63 €	16,04 €
GLB50-M10/FP	GLB50-M10/FP/SS	50	18	32	20	M10	18	11	✔	5,81 €	16,92 €
GLB60-M12/FP	-	60	20	36	22	M12	25	13	✔	7,75 €	-
GLB70-M12/FP	-	70	23	40	24	M12	25	14	✔	9,68 €	-
GLB70-M14/FP	-	70	23	40	24	M14	25	15	✔	11,80 €	-
GLB70-M16/FP	-	70	23	40	24	M16	25	17	✔	13,75 €	-

*Subject to availability - Dimensions in mm

Small 6 lobe male handle

Technopolymer with steel spindle

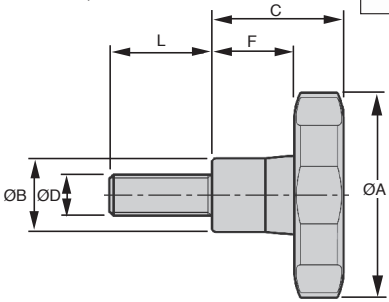
GLP

- **Small 6 lobe male handle with steel spindle**
- Material :
  Matt black polyamide
  Spindle: zinc plated steel or stainless steel



Option

- Stainless steel or polyamide coloured (min quantity applies) insert on quantities



DISCOUNTS

Qty	1+	10+	20+	50+	100+	200+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number								Stock*	Price each 1 to 9	
Steel	Stainless steel	ØA	ØB	C	F	ØD	L	Steel	Steel	Stainless steel
GLP30-M6-20	GLP30-M6-20/SS	30	14	24	15	M6	20	✔	2,65 €	6,40 €
GLP30-M6-30	GLP30-M6-30/SS	30	14	24	15	M6	30	✔	2,88 €	6,55 €
GLP30-M8-20	-	30	14	24	15	M8	20	✔	2,88 €	-
GLP30-M8-30	-	30	14	24	15	M8	30	✔	2,93 €	-
GLP40-M8-20	GLP40-M8-20/SS	40	16	28	18	M8	20	✔	3,20 €	7,58 €
GLP40-M8-30	GLP40-M8-30/SS	40	16	28	18	M8	30	✔	3,28 €	8,02 €
GLP40-M8-40	-	40	16	28	18	M8	40	✔	3,38 €	-
GLP50-M10-20	-	50	18	32	20	M10	20	✔	4,47 €	-
GLP50-M10-30	GLP50-M10-30/SS	50	18	32	20	M10	30	✔	4,60 €	11,97 €
GLP50-M10-40	GLP50-M10-40/SS	50	18	32	20	M10	40	✔	4,72 €	12,14 €
GLP60-M12-30	GLP60-M12-30/SS	60	20	36	22	M12	30	✔	7,69 €	14,61 €
GLP60-M12-50	GLP60-M12-50/SS	60	20	36	22	M12	50	✔	8,38 €	16,92 €
GLP70-M12-30	-	70	23	40	24	M12	30	-	8,38 €	-
GLP70-M12-50	-	70	23	40	24	M12	50	✔	8,98 €	-

*Subject to availability - Dimensions in mm

Female wing knob

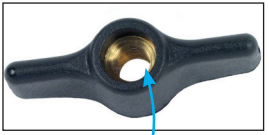
GGB Technopolymer with brass insert

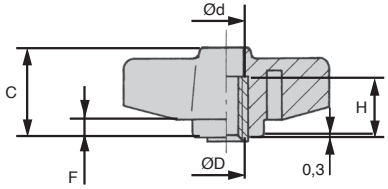
- ***Female wing knob with tapped hole (blind or fully threaded)***
- *For manual tightening*
- *Material:*
  Matt black polyamide with brass insert

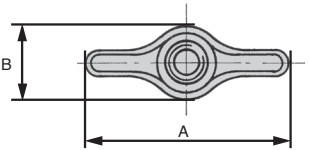
Info.

- ***Not sold individually, please contact us for details***









Brass insert

DISCOUNTS

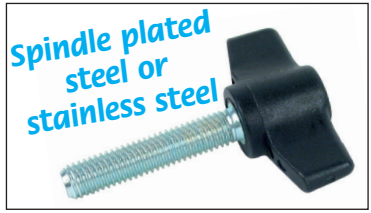
Qty	1+	10+	20+	50+	100+	200+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	A	B	C	ØD	Ød	H	F	Stock*	Price each 1 to 9
Knob with blind thread									
GGB34-M6	34	14	18	M6	-	9	4	✔	2,22 €
GGB34-M8	34	14	18	M8	-	9	4	-	2,22 €
GGB40-M6	40	15	19	M6	-	9	4	✔	2,34 €
GGB40-M8	40	15	19	M8	-	9	4	-	2,34 €
GGB48-M6	48	17	20	M6	-	13	4	-	2,46 €
GGB48-M8	48	17	20	M8	-	13	4	✔	2,46 €
Knob, fully threaded									
GGB34-M6/FP	34	14	18	M6	7	15	4	✔	2,46 €
GGB40-M6/FP	40	15	19	M6	9	15	4	✔	2,53 €
GGB40-M8/FP	40	15	19	M8	9	15	4	✔	2,53 €
GGB48-M6/FP	48	17	20	M6	9	15	4	✔	2,65 €
GGB48-M8/FP	48	17	20	M8	9	15	4	✔	2,65 €

**Subject to availability - Dimensions in mm*

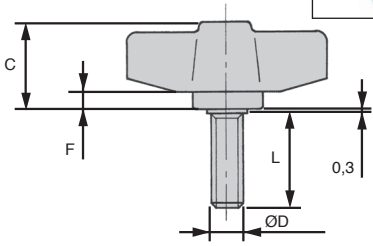
Technopolymer, with steel or stainless steel spindle

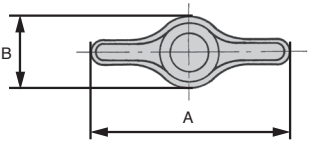
- ***Male wing knob***
- *For manual tightening*
- *Material:*
  Matt black polyamide
  Threaded shaft: zinc plated steel or stainless steel



Info.

- ***Not sold individually, please contact us for details***





DISCOUNTS

Qty	1+	10+	20+	50+	100+	200+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	A	B	C	ØD	L	F	Stock*	Price each 1 to 9
Steel								
GGP34-M6-25	34	14	18	M6	25	4	✔	2,46 €
GGP34-M8-25	34	14	18	M8	25	4	✔	2,65 €
GGP40-M8-25	40	15	19	M8	25	4	-	2,88 €
GGP48-M8-25	48	17	20	M8	25	4	✔	3,38 €
GGP48-M8-40	48	17	20	M8	40	4	✔	3,44 €
Stainless steel								
GGP34-M6-20/SS	34	14	18	M6	20	4	✔	5,34 €
GGP34-M6-30/SS	34	14	18	M6	30	4	-	5,62 €

**Subject to availability - Dimensions in mm*

Small 3-lobe knob

VTLF — Black polyamide with brass insert

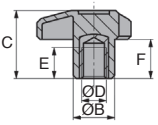
- ***Operating element***
- *Materials:*
  Black polyamide
  Brass insert

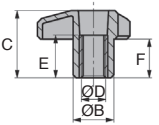
Improved tightening

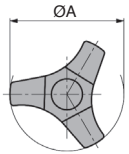


Advantages

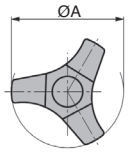
- *Highly resistant, increased tightening force*
- *Suitable for all hand sizes*
- *Can be used outside*







Blind tapped brass insert



Through tapped brass insert

DISCOUNTS

Qty	1+	10+	20+	50+	100+	200+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	ØD	ØA	ØB	C	F	E	Weight (g)	Stock*	Price each 1 to 9
Blind tapped brass insert									
VTLFB6-45	M6	45	18	27	16	14	13,8	✔	3,01 €
VTLFB8-45	M8	45	18	27	16	14	15,6	✔	3,13 €
VTLFB10-45	M10	45	18	27	16	14	17,2	-	3,47 €
VTLFB8-55	M8	55	20	33	19	14	22,8	-	3,51 €
VTLFB10-55	M10	55	20	33	19	14	23,4	✔	3,86 €
VTLFB12-55	M12	55	20	33	19	14	25,6	✔	4,14 €
Through tapped brass insert									
VTLF6-45	M6	45	18	27	16	14	12,4	-	3,51 €
VTLF8-45	M8	45	18	27	16	14	13,2	✔	3,47 €
VTLF10-45	M10	45	18	27	16	14	13,2	✔	3,81 €
VTLF8-55	M8	55	20	33	19	14	18,2	-	3,81 €
VTLF10-55	M10	55	20	33	19	14	19,2	✔	3,93 €
VTLF12-55	M12	55	20	33	19	14	19,8	✔	4,31 €

**Depending on availability - Dimensions in mm*

Small 3-lobe knob

Black polyamide with steel insert — VTLM

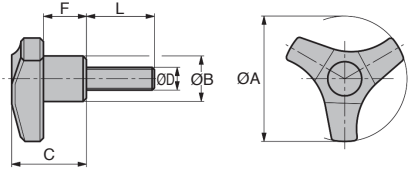
Improved tightening

- ***Operating element***
- *Materials:*
  Black polyamide, matt surface finish
  Chromed steel thread



Advantages

- *Highly resistant, increased tightening force*
- *Suitable for all hand sizes*



DISCOUNTS

Qty	1+	10+	20+	50+	100+	200+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	ØD	ØA	ØB	C	F	L	Weight (g)	Stock*	Price each 1 to 9
VTLM6-15-45	M6	45	18	27	16	15	15,4	✔	2,20 €
VTLM6-20-45	M6	45	18	27	16	20	16,4	✔	2,20 €
VTLM6-25-45	M6	45	18	27	16	25	17,0	-	2,29 €
VTLM6-30-45	M6	45	18	27	16	30	17,4	-	2,29 €
VTLM6-40-45	M6	45	18	27	16	40	20,0	✔	2,29 €
VTLM8-15-45	M8	45	18	27	16	15	19,0	-	2,29 €
VTLM8-20-45	M8	45	18	27	16	20	20,2	-	2,46 €
VTLM8-30-45	M8	45	18	27	16	30	23,6	✔	2,46 €
VTLM8-40-45	M8	45	18	27	16	40	27,0	-	2,51 €
VTLM10-20-45	M10	45	18	27	16	20	30,0	-	2,55 €
VTLM10-30-45	M10	45	18	27	16	30	35,0	-	2,68 €
VTLM6-20-55	M6	55	20	33	19	20	22,8	-	2,51 €
VTLM6-25-55	M6	55	20	33	19	25	23,6	-	2,59 €
VTLM6-40-55	M6	55	20	33	19	40	26,8	-	2,59 €
VTLM8-20-55	M8	55	20	33	19	20	27,2	-	2,59 €
VTLM8-30-55	M8	55	20	33	19	30	30,0	-	2,59 €
VTLM8-40-55	M8	55	20	33	19	40	33,4	✔	2,68 €
VTLM10-15-55	M10	55	20	33	19	15	32,0	-	2,86 €
VTLM10-20-55	M10	55	20	33	19	20	36,4	-	2,86 €
VTLM10-30-55	M10	55	20	33	19	30	42,0	-	2,93 €

**Depending on availability - Dimensions in mm*

3-lobe knob

VTLB

Thermoplastic

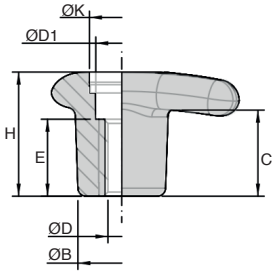
- ***Operating element***
- *Insert with tapped through hole*
- *Working T° range -30°C to +130°C*
- *Materials*
  Black polyamide PA6 glass fiber reinforced
  Brass or stainless steel 303 insert

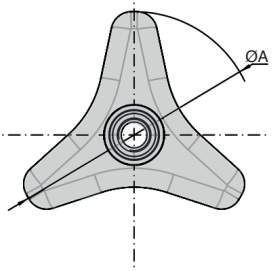
Strong tightening



Advantages

Handwheel size up to 100mm diameter provides excellent grip and clamping force





DISCOUNTS

Qty	1+	10+	20+	50+	100+
Disc.	List	-5%	-10%	-15%	On request

Part number Brass insert	Stainless steel insert	ØA	ØB	C	ØD	E	H	ØD1	ØK	Weight (g)	Price each 1 to 9 Brass	Stainless steel
VTLB8-63	VTLB8-63/SS	63	21	21	M8	18,5	30	12,5	Ø15	30	7,48 €	13,34 €
VTLB10-63	-	63	21	21	M10	18,5	30	12,5	Ø15	34	7,74 €	-
VTLB10-80	VTLB10-80/SS	80	26	23	M10	25	35	13	Ø20	59	9,11 €	13,62 €
VTLB12-80	-	80	26	23	M12	25	35	13	Ø20	61	9,88 €	-
VTLB12-100	VTLB12-100/SS	100	30	25	M12	25	38	17	Ø25	87	12,83 €	18,53 €
VTLB14-100	-	100	30	25	M14	25	38	17	Ø25	89	13,88 €	-

Dimensions in mm

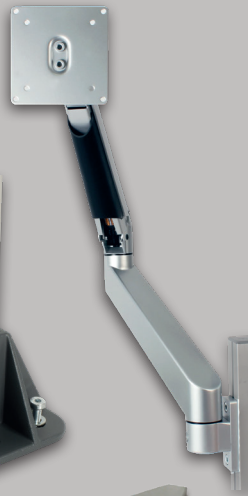
Wide range of

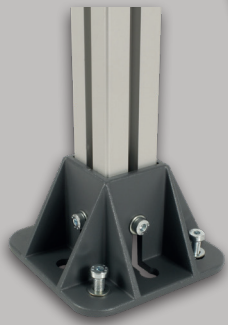
ACCESSORIES FOR ALUMINIUM PROFILE

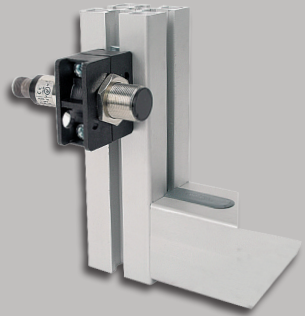
sur **HPCEUROPE.COM**

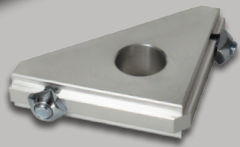
- Tool holders
- Wheels
- Locks
- Mounting supports
- Right angled brackets











Small 6 lobe knob

VB

Black Duroplast blind insert

- ***Operating element***
- *Materials:*
  Black phenolic Duraplast
  Insert: brass or stainless steel

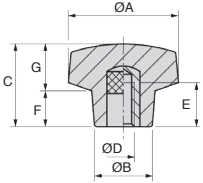
Good resistance

brass or stainless steel insert

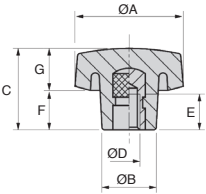


Advantages

- *Good grip*
- *Temperature resistant*
- *Good chemical resistance*
- *Easier to clean than technopolymer equivalent*
- *In machining applications, less likely to retain swarf*



VB20-VB50



VB60-VB70

DISCOUNTS

Qty	1+	10+	20+	50+	100+	200+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	ØA	ØB	C	ØD	E	F	G	Weight (g)	Stock*	Price each 1 to 9
Brass insert										
VB20-M4	20	13	15	M4	9	7	8	5	✔	3,52 €
VB20-M5	20	13	15	M5	9	7	8	5	-	3,67 €
VB20-M6	20	13	15	M6	9	7	8	5	-	3,77 €
VB30-M6	30	17	24	M6	9	11	13	15	✔	4,64 €
VB30-M8	30	17	24	M8	15	11	13	17	✔	4,77 €
VB40-M8	40	21	28	M8	15	12	16	34	✔	5,80 €
VB40-M10	40	21	28	M10	16	12	16	36	✔	5,92 €
VB50-M8	50	25	33	M8	15	13	20	54	✔	7,05 €
VB50-M10	50	25	33	M10	16	13	20	56	✔	7,05 €
VB50-M12	50	25	33	M12	18	13	20	58	-	7,47 €
VB60-M12	60	28	35	M12	18	15	20	70	✔	9,27 €
VB70-M12	70	32	42	M12	18	21	21	95	-	11,43 €
VB70-M14	70	32	42	M14	20	21	21	100	-	12,71 €
VB70-M16	70	32	42	M16	20	21	21	102	✔	13,12 €
Stainless steel insert										
VB20-M5/SS	20	13	15	M5	9	7	8	5	-	7,24 €
VB20-M6/SS	20	13	15	M6	9	7	8	5	-	7,61 €
VB30-M6/SS	30	17	24	M6	9	11	13	15	-	10,03 €
VB40-M8/SS	40	21	28	M8	15	12	16	33	-	11,52 €
VB50-M10/SS	50	25	33	M10	15	13	20	54	✔	19,56 €
VB60-M12/SS	60	28	37	M12	18	15	22	85	-	On request

**Depending on availability - Dimensions in mm*

Black Duroplast through bored insert

VBFP

- ***Operating element***
- *Materials:*
  Black phenolic Duraplast
  Insert; brass or stainless steel

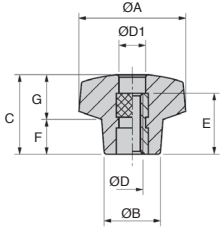
Good resistance

brass or stainless steel insert

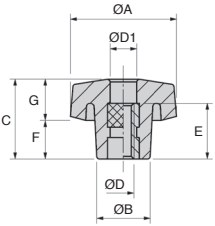


Advantages

- *Good grip*
- *Temperature resistant*
- *Good chemical resistance*
- *Easier to clean than technopolymer equivalent*
- *In machining applications, less likely to retain swarf*



VBFP20-VBFP30-VBFP/SS



VBFP40 to VBFP70

DISCOUNTS

Qty	1+	10+	20+	50+	100+	200+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	ØA	ØB	C	ØD	E	F	G	ØD1	Weight (g)	Stock*	Price each 1 to 9
Brass insert											
VBFP20-M4	20	13	15	M4	11	7	8	7,5	6	-	4,86 €
VBFP20-M5	20	13	15	M5	11	7	8	7,5	7	✔	5,04 €
VBFP20-M6	20	13	15	M6	11	7	8	7,5	10	-	5,12 €
VBFP30-M6	30	17	24	M6	15	11	12,5	9	16	✔	5,88 €
VBFP30-M8	30	17	24	M8	15	11	12,5	9	17	✔	6,17 €
VBFP40-M8	40	21	28	M8	18	13	15	11	29	✔	7,15 €
VBFP40-M10	40	21	28	M10	18	13	15	11	31	✔	7,19 €
VBFP50-M8	50	25	33	M8	18	15	18	13	43	-	8,90 €
VBFP50-M10	50	25	33	M10	18	15	18	13	45	✔	9,00 €
VBFP50-M12	50	25	33	M12	18	15	18	13	47	✔	9,00 €
VBFP60-M12	60	28	35	M12	25	15	20	13	70	-	11,25 €
VBFP70-M12	70	32	42	M12	25	21	21	13	96	-	13,68 €
VBFP70-M14	70	32	42	M14	25	21	21	15	94	-	13,68 €
VBFP70-M16	70	32	42	M16	25	21	21	17	93	✔	15,14 €
Stainless steel insert											
VBFP20-M6/SS	20	13	15	M6	11	7	8	7,5	10	-	11,20 €
VBFP30-M6/SS	30	17	24	M6	15	11	12,5	9	16	-	11,97 €
VBFP40-M8/SS	40	21	28	M8	18	13	15	11	34	-	13,42 €
VBFP50-M8/SS	50	25	33	M8	18	15	18	13	49	-	14,52 €
VBFP50-M10/SS	50	25	33	M10	18	15	18	13	52	-	15,25 €

**Depending on availability - Dimensions in mm*

Small 6-lobe knob

VP — Black Duroplast steel spindle

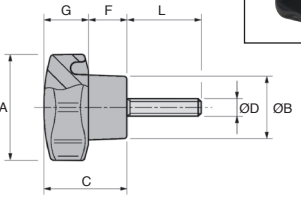
- ***Operating element***
- *Materials:*
  Black phenolic Duraplast
  Threaded stud: chromed steel

Good resistance



Advantages

- *Easy grip*
- *Temperature resistant*
- *Good chemical resistance*
- *Easier to clean than technopolymer equivalent*
- *In machining applications, less likely to retain swarf*



DISCOUNTS

Qty	1+	10+	20+	50+	100+	200+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	ØA	ØB	C	ØD	F	G	L	Weight (g)	Stock*	Price each 1 to 9
VP20-M4-15	20	13	15	M4	7	8	15	5	✔	3,27 €
VP20-M4-25	20	13	15	M4	7	8	25	6	-	3,27 €
VP20-M5-15	20	13	15	M5	7	8	15	7	✔	3,52 €
VP20-M5-25	20	13	15	M5	7	8	25	8	✔	3,63 €
VP20-M6-15	20	13	15	M6	7	8	15	8	✔	3,52 €
VP20-M6-25	20	13	15	M6	7	8	25	11	-	3,63 €
VP30-M6-15	30	17	24	M6	11	13	15	18	-	4,14 €
VP30-M6-25	30	17	24	M6	11	13	25	21	-	4,24 €
VP30-M6-35	30	17	24	M6	11	13	35	23	✔	4,33 €
VP30-M8-20	30	17	24	M8	11	13	20	25	✔	4,46 €
VP30-M8-30	30	17	24	M8	11	13	30	27	-	4,46 €
VP40-M8-20	40	21	28	M8	13	15	20	38	✔	5,50 €
VP40-M8-30	40	21	28	M8	13	15	30	40	✔	5,61 €
VP40-M8-40	40	21	28	M8	13	15	40	44	✔	5,71 €
VP50-M8-20	50	25	33	M8	15	18	20	52	✔	6,44 €
VP50-M8-30	50	25	33	M8	15	18	30	56	-	6,48 €
VP50-M8-40	50	25	33	M8	15	18	40	60	✔	6,48 €
VP50-M10-20	50	25	33	M10	15	18	20	61	-	6,58 €
VP50-M10-30	50	25	33	M10	15	18	30	65	✔	6,76 €
VP50-M10-40	50	25	33	M10	15	18	40	70	-	7,19 €
VP60-M12-20	60	28	35	M12	15	20	20	101	-	9,09 €
VP60-M12-30	60	28	35	M12	15	20	30	107	-	9,27 €
VP60-M12-40	60	28	35	M12	15	20	40	115	-	9,32 €
VP70-M12-30	70	32	42	M12	21	21	30	133	-	11,17 €
VP70-M12-40	70	32	42	M12	21	21	40	138	-	11,35 €
VP70-M12-50	70	32	42	M12	21	21	50	145	-	11,52 €
VP70-M14-50	70	32	42	M14	21	21	50	181	-	15,89 €

**Depending on availability - Dimensions in mm*

Small 6-lobe knob

Black Duroplast, threaded spindle — VPss

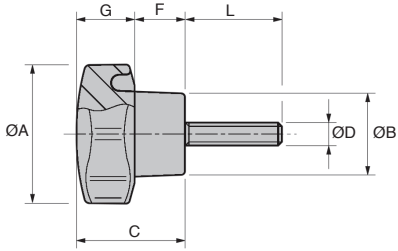
- ***Operating element***
- *Materials:*
  Black phenolic Duraplast
  Threaded stud: stainless steel



Advantages

- *Easy grip*
- *Temperature resistant*
- *Good chemical resistance*
- *Easier to clean than technopolymer equivalent*
- *In machining applications, less likely to retain swarf*

Good resistance



DISCOUNTS

Qty	1+	10+	20+	50+	100+	200+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	ØA	ØB	C	ØD	F	G	L	Weight (g)	Stock*	Price each 1 to 9
VP20-M5-15/SS	20	13	15	M5	7	8	15	9	✔	5,43 €
VP20-M6-15/SS	20	13	15	M6	7	8	15	10	✔	5,61 €
VP20-M6-20/SS	20	13	15	M6	7	8	20	13	-	5,61 €
VP30-M6-15/SS	30	17	24	M6	11	13	15	20	-	6,44 €
VP30-M6-20/SS	30	17	24	M6	11	13	20	21	✔	6,66 €
VP30-M6-35/SS	30	17	24	M6	11	13	35	22	✔	6,87 €
VP40-M8-20/SS	40	21	28	M8	12	16	20	42	✔	8,09 €
VP40-M8-30/SS	40	21	28	M8	12	16	30	46	✔	8,83 €
VP40-M8-45/SS	40	21	28	M8	12	16	45	51	✔	9,85 €
VP50-M10-20/SS	50	25	33	M10	13	20	20	73	✔	10,87 €
VP50-M10-30/SS	50	25	33	M10	13	20	30	78	✔	12,05 €
VP50-M10-40/SS	50	25	33	M10	13	20	40	83	✔	12,95 €
VP60-M12-30/SS	60	28	37	M12	15	22	30	118	-	17,46 €
VP60-M12-40/SS	60	28	37	M12	15	22	40	125	-	18,77 €

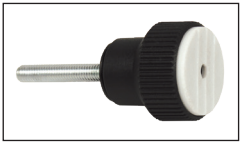
**Depending on availability - Dimensions in mm*

Knurled threaded torque Knob

BSC

Adjustable torque

- **Knurled knob with coloured insert**
- Materials:
  Dark grey thermoplastic
  Thread: steel blue chromed

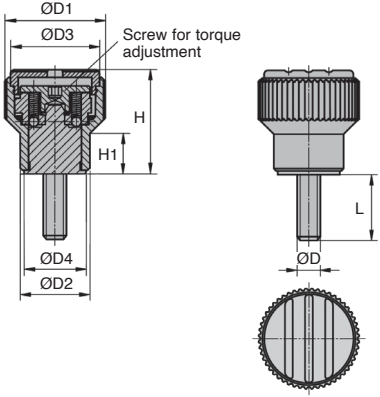


Info.

- The required torque is adjusted by means of a screw.
- As soon as this torque is reached, the knurled knob will start to slip.

Options

- Versions with different coloured inserts are available, signal red, dark grey, yellow



DISCOUNTS

Qty	1+	6+	10+	25+
Disc.	List	-5%	-10%	On request

Part number	ØD	L	ØD1	ØD2	ØD3	ØD4	H	H1	T	Torque range (Nm)	Price each 1 to 5
Grey insert											
BSC26-M5-30	M5	30	26	18	23	16	27	10,5	5	0,1 - 0,3	52,43 €
BSC26-M5-50	M5	50	26	18	23	16	27	10,5	5	0,1 - 0,3	52,72 €
BSC26-M6-30	M6	30	26	18	23	16	27	10,5	6	0,1 - 0,3	52,43 €
BSC34-M6-40	M6	40	34	22	31	20	37,5	14,5	10	0,1 - 0,3	82,57 €
BSC34-M6-50	M6	50	34	22	31	20	37,5	14,5	10	0,1 - 0,3	52,72 €
BSC34-M6-60	M6	60	34	22	31	20	37,5	14,5	10	0,1 - 0,3	58,22 €
BSC34-M8-40	M8	40	34	22	31	20	37,5	14,5	14	0,1 - 0,3	57,77 €
BSC34-M8-60	M8	60	34	22	31	20	37,5	14,5	14	0,1 - 0,3	58,22 €

Dimensions in mm

Knurled tapped torque Knob

Adjustable torque

BSC

- ***Knurled knob with coloured insert***
- *Materials:*
  Dark grey thermoplastic
  Tapped insert: black oxidised steel 5.8

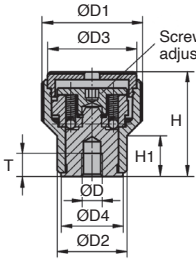


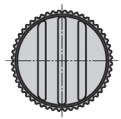
Info.

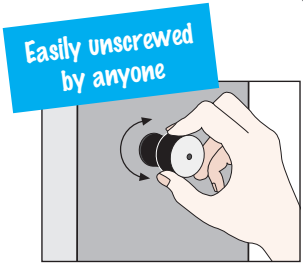
- *The required torque is adjusted by means of a screw.*
- *As soon as this torque is reached, the knurled knob will start to slip.*

Options

- *Versions with different coloured inserts are available, signal red, dark grey, yellow*







Same tightening torque

DISCOUNTS

Qty	1+	6+	10+	25+
Disc.	List	-5%	-10%	On request

Part number	ØD	ØD1	ØD2	ØD3	ØD4	H	H1	T	Torque range (Nm)	Price each 1 to 5
Grey insert										
BSC26-M5	M5	26	18	23	16	27	10,5	5	0,1 - 0,3	51,50 €
BSC26-M6	M6	26	18	23	16	27	10,5	6	0,1 - 0,3	51,50 €
BSC34-M6	M6	34	22	31	20	37,5	14,5	10	0,1 - 0,3	56,82 €
BSC34-M8	M8	34	22	31	20	37,5	14,5	14	0,1 - 0,3	56,82 €

Dimensions in mm

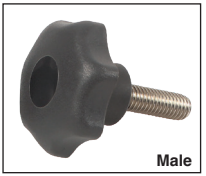
Star shaped anti-bacterial button

Stock

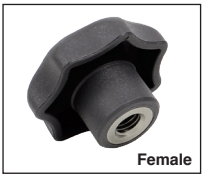
BEA

Similar to DIN 6336

- ***Reduces risk of presence of germs***
- *Materials:*
  Slate grey thermo-plastic
  Insert/thread - 303 stainless steel



Male



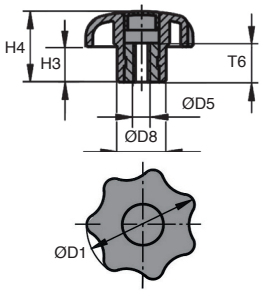
Female

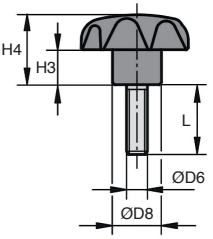
Uses

- *The use of a plastic containing silver ions is highly effective against a large number of harmful micro-organisms such as bacteria, fungi and viruses.*
  Thus the risk of any infection due to contact with the handle between two cleaning operations is considerably reduced.

Advantages

- *Resistant to moisture and cleaning products*
- *No undesirable toxic effects.*
- ***Fields of application:***
  Hygienic areas, hospitals, medical practices, rehabilitation zones, food manufacturing, nursing homes, day care centres.





DISCOUNTS

Qty	1+	10+	20+	50+	100+	200+
Disc	List	-5%	-10%	-15%	-20%	On request

Part number	ØD1	ØD5	ØD8	H3	H4	T6	L	Stock*	Price each 1 to 9
Female									
BEA-8F	40	M8	18	13	25	14	-	✔	4,96 €
Male									
BEA-8M	40	M8	18	13	25	-	25	✔	6,48 €

**Depending on availability - Dimensions in mm*

Star shaped anti-static button

Prevents occurrence of electrostatic spark BEAS

- ***Eliminates electric charges***
- *Materials:*
  Thermoplastic, black graphic finish
  Thread - 5.8 steel
- *Similar to DIN6336*

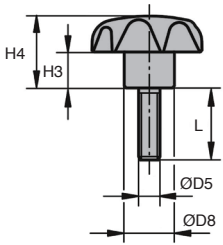
Advantages

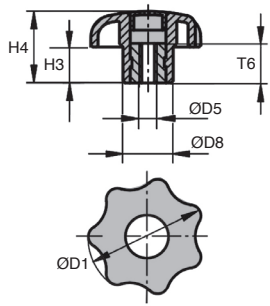
- *These products can be used for discharging electrostatic charges in areas classified as ESD Protected Areas (EPA) in accordance with DIN EN61340-5-1*
- *For clear, unambiguous identification, the yellow ESD logo is printed of the side of the handle*






Antistatic





DISCOUNTS

Qty	1+	10+	20+	50+	100+	200+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	ØD1	ØD5	ØD8	H3	H4	T6	L	Stock*	Price each 1 to 9
Female									
BEAS-8	40	M8	18	13	25	14	-	✔	3,26 €
Male									
BEAS-8-25	40	M8	18	13	25	-	25	New	4,26 €

**Depending on availability - Dimensions in mm*

Detectable plastic palm grip

New

PDM

Identifiable by metal detectors

- ***Operating element for sensitive sectors***
- *In the event of breakage during production in sensitive sectors such as the food industry, the plastic fragments are easily identified by metal detectors, enabling them to be disposed of quickly*
- *Material :*
  Detectable thermoplastic (glass-fibre reinforced polyamide), EU10/2011 and FDA compliant (colour RAL7021)
  Components in polished 316L stainless steel
- *Operating temperature: -20°C to +100°C*

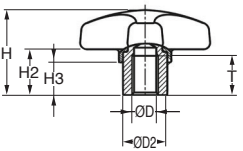


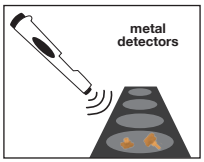
Application

- *Food industry*
- *Pharmaceutical industry*
- *Packaging industry*

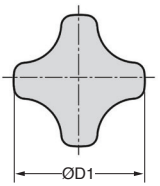
Info.

- *Metal detectable plastic*
- *Detection volume ≥ 0.027 cm³*
- *Food-grade materials*





Typical application



DISCOUNTS

Qty	1+	6+	10+	25+
Disc.	List	-5%	-10%	On request

Part Number	ØD	ØD1	ØD2	H	H2	H3	T	Price each 1 to 5
PDM25-5	M5	25	10,0	18	9	7,0	9	11,24 €
PDM32-6	M6	32	13,5	22	12	9,5	12	13,70 €
PDM40-6	M6	40	13,5	26	14	10,0	12	17,06 €
PDM40-8	M8	40	13,5	26	14	10,0	12	17,06 €
PDM50-8	M8	50	19,0	32	18	12,0	17	23,21 €
PDM50-10	M10	50	19,0	32	18	12,0	17	23,21 €

Dimensions in mm

New

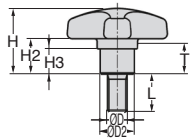
Detectable plastic palm grip

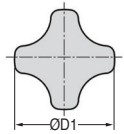
Identifiable by metal detectors

PDM

- ***Operating element for sensitive sectors***
- *In the event of breakage during production in sensitive sectors such as the food industry, the plastic fragments are easily identified by metal detectors, enabling them to be disposed of quickly*
- *Material :*
  Detectable thermoplastic (glass-fibre reinforced polyamide), EU10/2011 and FDA compliant (colour RAL7021)
  Components in polished 316L stainless steel
- *Operating temperature: -20°C to +100°C*





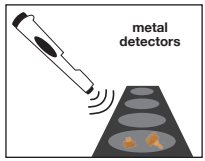


Application

- *Food industry*
- *Pharmaceutical industry*
- *Packaging industry*

Info.

- *Metal detectable plastic*
- *Detection volume*
  ≥ 0.027 cm³
- *Food-grade materials*



Typical application

DISCOUNTS

Qty	1+	6+	10+	25+
Disc.	List	-5%	-10%	On request

Part Number	ØD	ØD1	ØD2	H	H2	H3	L	Price each 1 to 5
PDM25-5-10	M5	25	10	18	9	7	10	11,64 €
PDM25-5-15	M5	25	10	18	9	7	15	11,64 €
PDM25-5-20	M5	25	10	18	9	7	20	11,64 €
PDM32-6-10	M6	32	13,5	22	12	9,5	10	12,70 €
PDM32-6-15	M6	32	13,5	22	12	9,5	15	12,70 €
PDM32-6-20	M6	32	13,5	22	12	9,5	20	12,70 €
PDM32-6-25	M6	32	13,5	22	12	9,5	25	13,39 €
PDM32-6-30	M6	32	13,5	22	12	9,5	30	13,39 €
PDM40-8-15	M8	40	13,5	26	14	10	15	15,91 €
PDM40-8-20	M8	40	13,5	26	14	10	20	16,36 €
PDM40-8-25	M8	40	13,5	26	14	10	25	16,70 €
PDM40-8-30	M8	40	13,5	26	14	10	30	17,00 €
PDM40-8-40	M8	40	13,5	26	14	10	40	17,79 €
PDM40-8-50	M8	40	13,5	26	14	10	50	18,15 €
PDM50-10-20	M10	50	19	32	18	12	20	21,39 €
PDM50-10-25	M10	50	19	32	18	12	25	21,69 €
PDM50-10-30	M10	50	19	32	18	12	30	22,06 €
PDM50-10-40	M10	50	19	32	18	12	40	22,51 €
PDM50-10-50	M10	50	19	32	18	12	50	22,85 €
PDM50-10-60	M10	50	19	32	18	12	60	23,21 €

Dimensions in mm

Detectable plastic palm grip

New

PDV

Visually identifiable

- ***Ultramarine blue operating element for sensitive sectors***
- *In the event of breakage during production in sensitive sectors such as the food industry, plastic fragments are easily identified visually, enabling them to be removed quickly*
- *Materials :*
  Visually detectable thermoplastic (glass-fibre reinforced polyamide), EU10/2011 and FDA compliant (RAL5002 colour)
  Components in polished 316L stainless steel
- *Operating temperature: -20°C to +100°C*

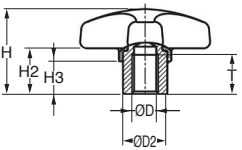


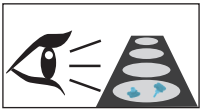
Application

- *Food industry*
- *Pharmaceutical industry*
- *Packaging industry*

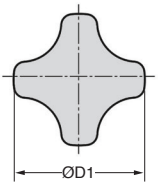
Info.

- *Food-grade materials*





Typical application



DISCOUNTS

Qty	1+	6+	10+	25+
Disc.	List	-5%	-10%	On request

Part Number	ØD	ØD1	ØD2	H	H2	H3	T	Price each 1 to 5
PDV25-5	M5	25	10	18	9	7	9	10,51 €
PDV32-6	M6	32	13,5	22	12	9,5	12	12,79 €
PDV40-6	M6	40	13,5	26	14	10	12	15,97 €
PDV40-8	M8	40	13,5	26	14	10	12	15,97 €
PDV50-8	M8	50	19	32	18	12	17	21,66 €
PDV50-10	M10	50	19	32	18	12	17	21,66 €

Dimensions in mm

New

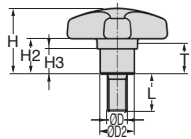
Detectable plastic palm grip

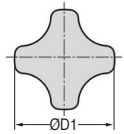
Visually identifiable

PDV

- ***Ultramarine blue operating element for sensitive sectors***
- *In the event of breakage during production in sensitive sectors such as the food industry, plastic fragments are easily identified visually, enabling them to be removed quickly*
- *Materials :*
  Visually detectable thermoplastic (glass-fibre reinforced polyamide), EU10/2011 and FDA compliant (RAL5002 colour)
  Components in polished 316L stainless steel
- *Operating temperature: -20°C to +100°C*





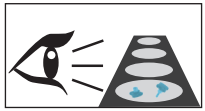


Application

- *Food industry*
- *Pharmaceutical industry*
- *Packaging industry*

Info.

- *Food-grade materials*



Typical application

DISCOUNTS

Qty	1+	6+	10+	25+
Disc.	List	-5%	-10%	On request

Part Number	ØD	ØD1	ØD2	H	H2	H3	L	Price each 1 to 5
PDV25-5-10	M5	25	10,0	18	9	7,0	10	10,85 €
PDV25-5-15	M5	25	10,0	18	9	7,0	15	10,85 €
PDV25-5-20	M5	25	10,0	18	9	7,0	20	10,85 €
PDV32-6-10	M6	32	13,5	22	12	9,5	10	11,79 €
PDV32-6-15	M6	32	13,5	22	12	9,5	15	11,79 €
PDV32-6-20	M6	32	13,5	22	12	9,5	20	11,79 €
PDV32-6-25	M6	32	13,5	22	12	9,5	25	12,48 €
PDV32-6-30	M6	32	13,5	22	12	9,5	30	12,48 €
PDV40-8-15	M8	40	13,5	26	14	10,0	15	14,85 €
PDV40-8-20	M8	40	13,5	26	14	10,0	20	15,27 €
PDV40-8-25	M8	40	13,5	26	14	10,0	25	15,57 €
PDV40-8-30	M8	40	13,5	26	14	10,0	30	15,91 €
PDV40-8-40	M8	40	13,5	26	14	10,0	40	16,57 €
PDV40-8-50	M8	40	13,5	26	14	10,0	50	16,94 €
PDV50-10-20	M10	50	19,0	32	18	12,0	20	19,97 €
PDV50-10-25	M10	50	19,0	32	18	12,0	25	20,21 €
PDV50-10-30	M10	50	19,0	32	18	12,0	30	20,60 €
PDV50-10-40	M10	50	19,0	32	18	12,0	40	21,03 €
PDV50-10-50	M10	50	19,0	32	18	12,0	50	21,33 €
PDV50-10-60	M10	50	19,0	32	18	12,0	60	21,66 €

Dimensions in mm

Fixed cylindrical handle

PCM

Black Duroplast

Stock

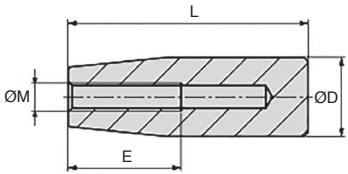
Good resistance

- **Fixed non-turning handle**
- Material:
  Black Duroplast



Advantages

- Good grip
- Easier to clean than technopolymer alternatives
- No retention of swarf in a machining environment.



DISCOUNTS

Qty	1+	6+	20+	50+	100+	250+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	ØM	ØD	L	E	Weight (g)	Stock*	Price each 1 to 5
PCM5-13-27	M5	13	27	14	4	✔	2,71 €
PCM6-13-27	M6	13	27	14	4	-	2,71 €
PCM6-17-40	M6	17	40	20	9	✔	2,71 €
PCM8-17-40	M8	17	40	25	8	✔	2,71 €
PCM6-21-50	M6	21	50	25	20	✔	3,38 €
PCM8-21-50	M8	21	50	25	19	-	3,38 €
PCM10-21-50	M10	21	50	25	18	✔	3,38 €
PCM6-23-55	M6	23	55	25	25	-	3,71 €
PCM8-23-55	M8	23	55	25	24	-	3,71 €
PCM10-23-55	M10	23	55	25	24	-	3,71 €
PCM8-25-65	M8	25	65	30	36	✔	3,93 €
PCM10-25-65	M10	25	65	30	35	✔	3,93 €
PCM12-25-65	M12	25	65	30	34	✔	3,93 €
PCM8-28-85	M8	28	85	40	61	✔	5,12 €
PCM10-28-85	M10	28	85	40	59	-	5,12 €
PCM12-28-85	M12	28	85	40	56	-	5,12 €
PCM14-28-85	M14	28	85	40	52	✔	5,12 €
PCM8-29-115	M8	29	115	40	92	-	8,79 €
PCM10-29-115	M10	29	115	40	88	✔	8,79 €
PCM12-29-115	M12	29	115	40	84	✔	8,79 €

*Depending on availability - Dimensions in mm

Lever with cylindrical handle

Black Duroplast steel lever

LPCM

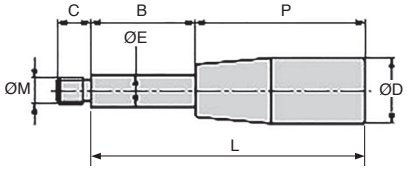
Good resistance



- ***Operating element***
- *Materials:*
  Handle - Black Duroplast
  Lever - galvanised steel

Advantages

- *Good grip*
- *Easier to clean than technopolymer alternatives*
- *No retention of swarf in a machining environment.*



DISCOUNTS

Qty	1+	6+	20+	50+	100+	250+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	ØM	ØD	L	P	B	C	ØE	Weight (g)	Stock*	Price each 1 to 5
LPCM8-17-75	M8	17	75	40	35	12	10	38	✔	8,54 €
LPCM8-21-85	M8	21	85	50	35	12	10	49	-	8,96 €
LPCM8-21-95	M8	21	95	50	45	12	10	56	✔	9,18 €
LPCM8-21-125	M8	21	125	50	75	12	10	74	-	10,95 €
LPCM8-23-130	M8	23	130	55	75	12	10	80	✔	12,29 €
LPCM10-23-90	M10	23	90	55	35	14	12	68	-	10,61 €
LPCM10-25-100	M10	25	100	65	35	14	12	76	-	10,88 €
LPCM10-25-110	M10	25	110	65	45	14	12	86	✔	11,57 €
LPCM10-25-140	M10	25	140	65	75	14	12	112	✔	13,66 €
LPCM12-25-78	M12	25	78	65	13	15	15	72	-	10,99 €
LPCM12-25-105	M12	25	105	65	40	15	15	108	-	12,00 €
LPCM12-25-140	M12	25	140	65	75	15	15	157	✔	13,60 €
LPCM12-28-98	M12	28	98	85	13	15	15	96	-	13,98 €
LPCM12-28-125	M12	28	125	85	40	15	15	132	-	14,77 €
LPCM12-28-160	M12	28	160	85	75	15	15	181	✔	16,51 €
LPCM12-28-190	M12	28	190	85	105	15	15	219	-	18,04 €
LPCM14-25-78	M14	25	78	65	13	15	15	73	-	11,57 €
LPCM14-25-105	M14	25	105	65	40	15	15	118	-	12,34 €
LPCM14-25-140	M14	25	140	65	75	15	15	161	-	15,24 €
LPCM14-28-98	M14	28	98	85	13	15	15	98	-	14,28 €
LPCM14-28-125	M14	28	125	85	40	15	15	143	-	16,05 €

**Depending on availability - Dimensions in mm*

Threaded spherical knob

GPB

Technopolymer

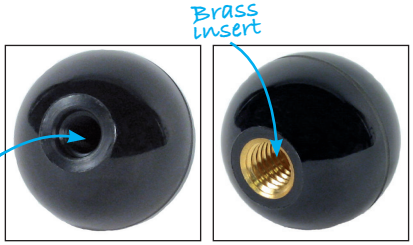
- ***Spherical knob with moulded thread or brass insert***
- *Small central groove*
- *Material :*
  Black Duroplast with brass insert

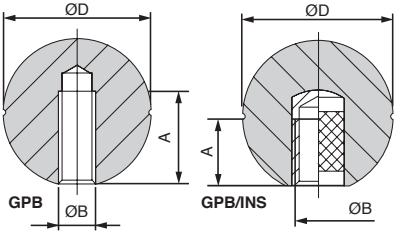
Option

- *Stainless steel or polyamide coloured insert (min quantity applies)*

Info.

- ***Not sold individually, please contact us for details***





DISCOUNTS

Qty	1+	10+	20+	50+	100+	200+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	ØD	A	ØB	Stock*	Price each 1 to 9
Moulded thread					
GPB19-M4	19	10	M4	✔	2,04 €
GPB19-M5	19	10	M5	✔	2,04 €
GPB19-M6	19	10	M6	✔	2,04 €
GPB25-M6	25	17	M6	✔	2,25 €
GPB25-M8	25	17	M8	✔	2,25 €
GPB32-M8	32	20	M8	✔	2,53 €
GPB32-M10	32	20	M10	✔	2,53 €
GPB32-M12	32	20	M12	✔	2,53 €
GPB41-M10	41	20	M10	✔	3,35 €
GPB41-M12	41	20	M12	✔	3,35 €
GPB47-M14	47	23	M14	✔	4,49 €
Threaded insert					
GPB19-M6/INS	19	9	M6	✔	3,27 €
GPB25-M8/INS	25	15	M8	✔	3,43 €
GPB32-M8/INS	32	15	M8	✔	3,51 €
GPB32-M10/INS	32	16	M10	✔	3,90 €
GPB41-M10/INS	41	16	M10	✔	5,18 €
GPB41-M12/INS	41	18	M12	✔	6,04 €

**Depending on availability - Dimensions in mm*

Threaded spherical knob, with fixing moulded thread

Stainless steel 304 or aluminium

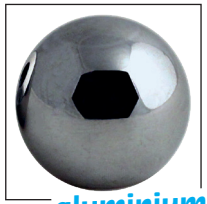
GPBss
GPBAL

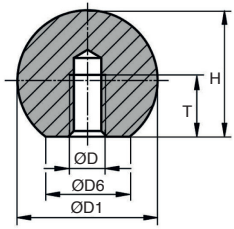
- Operating element
- Material:
  Inox 304
  Aluminium
- Finishing: polished

Advantages

- Does not retain dirt or dust







DISCOUNTS

Qty	1+	6+	10+	20+
Disc.	Price	-5%	-10%	On request

Part number	ØD	ØD1	ØD6	H	T	Price per unit 1 to 5
304 Stainless steel						
GPB16-M4/SS	M4	16	8	15,0	7,2	8,98 €
GPB20-M5/SS	M5	20	12	18,0	9,1	9,95 €
GPB25-M6/SS	M6	25	15	22,5	11,0	14,55 €
GPB32-M8/SS	M8	32	18	29,0	14,5	21,64 €
GPB40-M10/SS	M10	40	22	37,0	18,0	38,40 €
GPB50-M12/SS	M12	50	28	46,0	21,0	60,12 €
Aluminium						
GPB16-M4/AL	M4	16	8	15,0	7,2	6,35 €
GPB20-M5/AL	M5	20	12	18,0	9,1	6,55 €
GPB25-M6/AL	M6	25	15	22,5	11,0	9,17 €
GPB32-M8/AL	M8	32	18	29,0	14,5	13,19 €
GPB40-M10/AL	M10	40	22	37,0	18,0	18,96 €
GPB50-M12/AL	M12	50	28	46,0	21,0	27,51 €

Dimensions in mm

Antistatic knurled nut

EMAS Prevents occurrence of electrostatic spark

Eliminates electrical charges

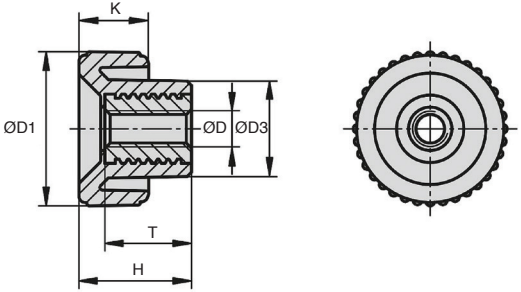
- *Materials :*
  Reinforced PA thermoplastic, graphite black
  Tapped bush in steel trivalent blue passivated

Advantages

- *These products can be used for electrostatic discharge applications or areas where electrostatic discharge protection (EPA) in accordance with DIN EN61340-5-1*
- *The knurled nuts can be tightened or loosened without tools*



Antistatic



DISCOUNTS

Qty	1+	10+	20+	50+	100+	200+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	ØD	ØD1	ØD3	H	K	T	Price each 1 to 9
EMAS18-M4	M4	18	11	13	8	10	6,33 €
EMAS20-M5	M5	20	13,6	15	9	10	6,85 €
EMAS25-M6	M6	25	14	17	10	10	7,48 €
EMAS32-M8	M8	32	18	22	13	14	8,57 €
EMAS40-M10	M10	40	19	25	14	14	9,33 €

Dimensions in mm

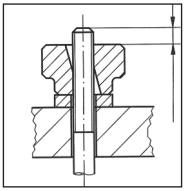
Tightening knurled nut

Threads M5-M12

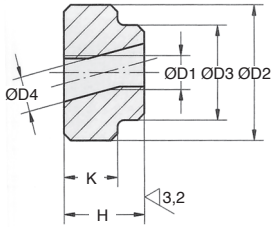
EMR

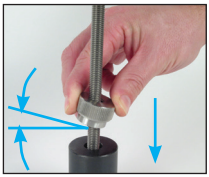
- ***For use in applications that do not require very high clamping forces***
- *Material: hardened steel*
- *Finish: hardened and blackened*



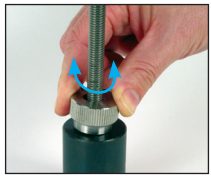


Threaded rod should be much longer than dimension “H”

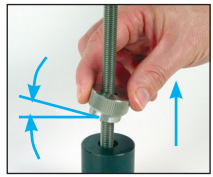




1) Tilt, and slide down.



2) Level and tighten or loosen.



3) Tilt, and slide back up.

DISCOUNTS

Qty	1+	6+	20+	40+	60+	101+
Disc.	List	-10%	-15%	-20%	-25%	On request

Part number	ØD1	ØD2	ØD3	ØD4	H	K	Weight (g)	Stock*	Price each 1 to 5
EMR-5	M5	20	14	5,2	12	8	25	✔	10,12 €
EMR-6	M6	24	16	6,2	14	10	38	✔	10,91 €
EMR-8	M8	30	20	8,2	17	12	75	✔	14,10 €
EMR-10	M10	36	28	10,3	20	14	130	✔	15,52 €
EMR-12	M12	40	32	12,3	24	16	185	✔	19,46 €

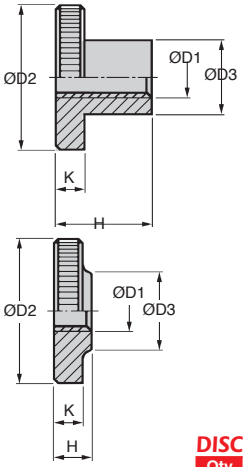
**Depending on availability - Dimensions in mm*

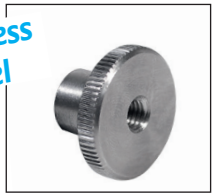
Stainless steel knurled thumb nut

EMSH
EMSB

Threads M3 to M12

- ***One-piece knurled nut***
- *Material: stainless steel 18.9*





Long version EMS-H



Short version EMS-B

DISCOUNTS

Qty	1+	6+	20+	40+	60+	101+
Disc.	List	-10%	-15%	-20%	-25%	On request

Part number	ØD1	ØD2	ØD3	H	K	Stock*	Price each 1 to 5
Long version							
EMS-3H	M3	12	6	7,5	2,5	✔	1,18 €
EMS-4H	M4	16	8	9,5	3,5	✔	1,81 €
EMS-5H	M5	20	10	11,5	4,0	✔	2,10 €
EMS-6H	M6	24	12	15,0	5,0	✔	3,31 €
EMS-8H	M8	30	16	18,0	6,0	✔	7,27 €
EMS-10H	M10	36	20	23,0	8,0	✔	11,88 €
EMS-12H	M12	36	20	23,0	8,0	✔	23,03 €
Short version							
EMS-4B	M4	16	8	4,0	3,5	✔	1,36 €
EMS-5B	M5	20	10	5,0	4,0	✔	1,86 €
EMS-6B	M6	24	12	6,0	5,0	✔	2,93 €
EMS-8B	M8	30	16	8,0	6,0	✔	7,15 €
EMS-10B	M10	36	20	10,0	8,0	✔	12,92 €
EMS-12B	M12	36	20	10,0	8,0	✔	19,46 €

**Subject to availability - Dimensions in mm*

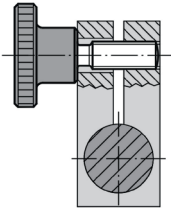
Stainless steel knurled thumb screw

Threads M4 to M10

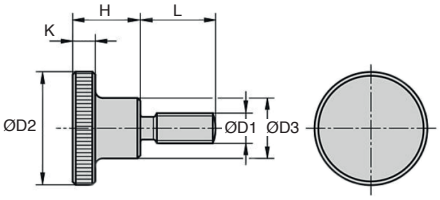
VMS

- ***One-piece threaded screw***
- *Material: Polished stainless steel 303*
- *Operating element*
- *Conforms to DIN 464*
- *** These thumb screws are supplied with shaft threaded along the entire length (no undercut)*





Typical application



DISCOUNTS

Qty	1+	6+	20+	40+	60+	101+
Disc.	List	-10%	-15%	-20%	-25%	On request

Part number	ØD1	ØD2	ØD3	H	K	L	Stock*	Price each 1 to 5
VMS4-10	M4	16	8	9,5	3,5	10	✔	2,81 €
VMS4-16	M4	16	8	9,5	3,5	16	✔	3,12 €
VMS4-20	M4	16	8	9,5	3,5	20**	✔	3,41 €
VMS5-10	M5	20	10	11,5	4,0	10	✔	3,47 €
VMS5-16	M5	20	10	11,5	4,0	16	✔	4,13 €
VMS5-20	M5	20	10	11,5	4,0	20**	✔	4,99 €
VMS6-10	M6	24	12	15,0	5,0	10	✔	7,50 €
VMS6-16	M6	24	12	15,0	5,0	16	✔	5,83 €
VMS6-20	M6	24	12	15,0	5,0	20	✔	10,57 €
VMS6-25	M6	24	12	15,0	5,0	25**	✔	8,59 €
VMS8-16	M8	30	16	18,0	6,0	16	✔	13,38 €
VMS8-20	M8	30	16	18,0	6,0	20	✔	14,51 €
VMS8-25	M8	30	16	18,0	6,0	25	✔	13,79 €
VMS10-20	M10	36	20	23,0	8,0	20	✔	24,37 €
VMS10-25	M10	36	20	23,0	8,0	25	✔	27,43 €

**Subject to availability - Dimensions in mm*

Stainless steel hexagonal headed thumb nut Stock*

EML

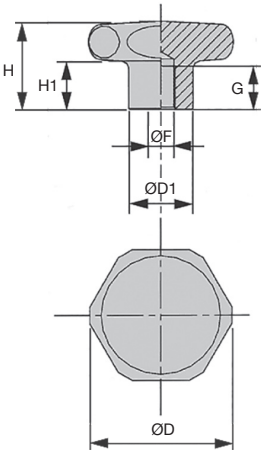
Threads M5 to M12

- ***One piece construction***
- *Material: stainless steel 304*
- *Finish: polished*

Advantages

- *Does not retain dirt or dust*





Polished finish

DISCOUNTS

Qty	1+	6+	10+	25+
Disc.	List	-5%	-10%	On request

Part number	ØF	ØD	ØD1	H	H1	G	Stock*	Price each 1 to 5
EML5-27	M5	27	15	19	10,0	10	✔	26,09 €
EML6-33	M6	33	19	23	12,0	12	✔	32,73 €
EML8-40	M8	40	21	27	15,0	13	✔	40,85 €
EML10-50	M10	50	25	33	17,5	17	✔	53,69 €
EML12-60	M12	60	27	37	20,0	20	✔	70,12 €

**Subject to availability - Dimensions in mm*

Sta Stock Stainless steel hexagonal headed thumb screw

Threads M6 to M12

VML

- **One piece construction**
- Operating elements
- Material: stainless steel 304
- Finish: polished

Advantages

- Does not retain dirt or dust

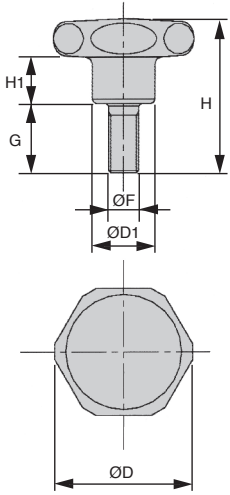
Applications

- Chemical, pharmaceutical and food industries

Polished finish



Solid stainless steel



DISCOUNTS

Qty	1+	6+	10+	25+
Disc.	List	-5%	-10%	On request

Part number	ØF	ØD	ØD1	H	H1	G	Stock*	Price each 1 to 5
VML6-27	M6	27	15	30	10,0	10	✔	30,35 €
VML8-33	M8	33	19	43	11,0	20	✔	37,33 €
VML8-40	M8	40	21	47	15,0	20	✔	51,37 €
VML10-50	M10	50	25	63	17,5	30	✔	60,69 €
VML12-60	M12	60	27	77	20,0	40	✔	84,20 €

*Subject to availability - Dimensions in mm

Thermoplastic T handle

PGNT

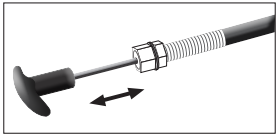
Push-pull operation

- ***Handle with threaded insert or threaded spindle***
- *Material:*
  Black glass fibre reinforced thermoplastic
  Threaded insert: brass
  Threaded spindle: Chromed steel

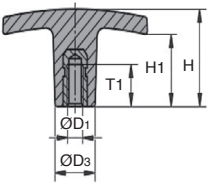


Advantages

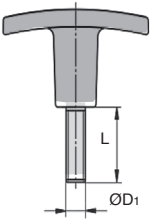
- *Excellent grip*
- *Mechanical linkage applications*



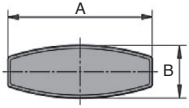
Typical application



T handle with insert female



T handle with threaded spindle male



DISCOUNTS

Qty	1+	10+	20+	50+	100+	200+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	A	B	ØD1	ØD3	H	H1	T1	L	Weight (kg)	Stock*	Price each 1 to 9
With threaded insert female											
PGNT40-M5	40	13	M5	13	30,5	20	10	-	0,011	✔	2,86 €
PGNT50-M5	50	15	M5	14	24	16	10	-	0,013	✔	2,96 €
PGNT60-M6	60	17	M6	16	31,5	23	12	-	0,017	✔	3,96 €
PGNT71-M8	71	19,5	M8	20	36	19	20	-	0,028	✔	6,16 €
PGNT71-M10	71	19,5	M10	20	36	19	20	-	0,030	-	6,77 €
PGNT80-M10	80	26	M10	26	39,5	26	25	-	0,048	✔	7,91 €
PGNT80-M12	80	26	M12	26	39,5	26	25	-	0,056	-	9,22 €
With threaded spindle male											
PGNT40-M5-15	40	13	M5	13	30,5	20	-	15	-	✔	1,53 €
PGNT50-M5-20	50	15	M5	14	24	16	-	20	-	✔	2,70 €
PGNT50-M6-25	60	17	M6	16	31,5	23	-	25	-	✔	3,05 €
PGNT71-M8-30	71	19,5	M8	20	36	19	-	30	-	✔	4,56 €
PGNT71-M10-30	71	19,5	M10	20	36	19	-	30	-	✔	5,22 €
PGNT80-M10-30	80	26	M10	26	39,5	26	-	30	-	✔	6,03 €
PGNT80-M12-40	80	26	M12	26	39,5	26	-	40	-	-	7,16 €

**Depending on availability - Dimensions in mm*

Technopolymer female mushroom head knob

Push-pull operation

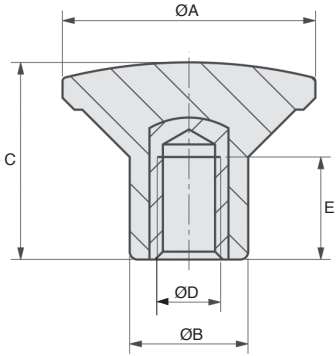
PCH

- ***Handle for push/pull operations***
- *Material:*
  Black polyamide, matt surface finish
  Brass insert

Info

- *For larger threads, see* **GPB** *spherical handles* ***(tome 1 p.142)***





DISCOUNTS

Qty	1+	10+	20+	50+	100+	200+
Disc.	Net	-5%	-10%	-15%	-20%	On request

Part number	ØA	ØB	C	ØD	E	Weight (g)	Price each 1 to 9
PCH26-M5	26	12	17	M5	8	8	1,50 €
PCH26-M6	26	12	17	M6	8	8	1,50 €
PCH32-M6	32	15	24	M6	13	13	2,07 €
PCH32-M8	32	15	24	M8	13	13	2,13 €

All dimensions in mm

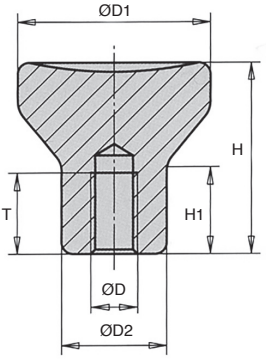
Stainless steel mushroom headed button

BCHss

Push/pull fonction

- ***Suitable for linear (push/pull) operations***
- *Material:*
  Stainless steel 303
  Finish: Electrolytically polish





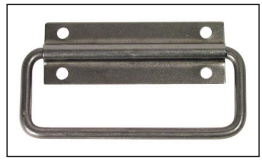
DISCOUNTS

Qty	1+	10+	20+	50+
Disc.	List	-10%	-20%	On request

Part number	ØD	ØD1	ØD2	H	H1	T	Stock*	Price each 1 to 9
BCH3-18/SS	M3	18	10	18	8,6	7,5	✔	10,70 €
BCH4-21/SS	M4	21	12	21	10,0	10,0	✔	11,74 €
BCH5-21/SS	M5	21	12	21	10,0	12,5	✔	11,74 €
BCH6-25/SS	M6	25	14	25	12,0	12,0	✔	13,12 €
BCH8-33/SS	M8	33	18	33	16,0	16,0	✔	19,12 €

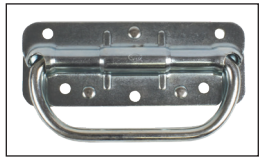
**Subject to availability - Dimensions in mm*

Handle PX399-BR:
- *The plate and ring of the handle are not solidly attached*
- *Plate: 1mm thick formed steel*
- *Ring: formed wire Ø4.9mm*

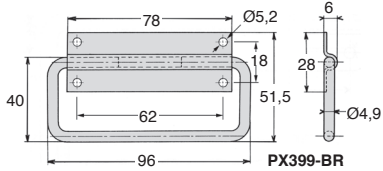


Handle PX399-BR

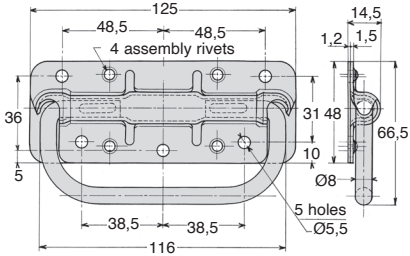
Handle PO301-ZB:
- *Reduced height saves space*
- *Ring is secured to plate*
- *Pressed plate, 1.5mm*
- *5 fixing holes Ø5.5mm*
- *Ring: steel wire 8mm*
- *Plate secured using 4 x light alloy rivets Ø3mm*



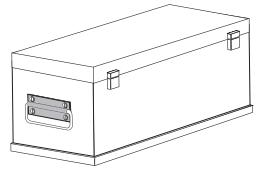
Handle PO301-ZB



PX399-BR



PO301-ZB



Typical application

DISCOUNTS

Qty	1+	6+	20+	50+	250+	400+
Disc.	List	-5%	-10%	-15%	-25%	On request

Part number	Finish	Fixing	Max. load per handle (kgf)	Weight (kg)	Stock*	Price each 1 to 5
Ordinary carry handle						
PX399-BR	Unfinished	With holes	10	0,049	✔	1,73 €
Riveted carrying handle						
PO301-ZB	White zinc	With holes	60	0,023	✔	9,58 €

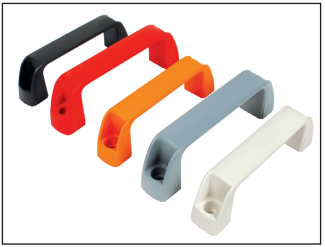
**Subject to availability - Dimensions in mm*

Multi-sector enclosure/door handle

PO

Back to back mounting

- Ideal for back mounting, i.e. a PO handle used on one side with a PO-M handle on the other (see typical application)
- *Colour: matt black*
- *Materials:*
  Handle: Fibreglass reinforced Technopolymer
  Insert: Brass (PO-M version)
- ***PO** version has a smooth bored hole for socket head screw*
- ***PO-M** has a blind threaded insert*





PO version



PO-M version



Black



Red: safety
Add: **/R**
to end of part number



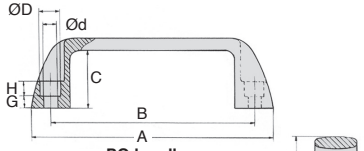
Orange: furniture, kitchens
Add: **/O**
to end of part number



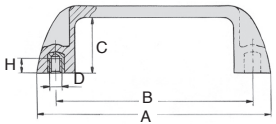
Grey: food industry
Add: **/G**
to end of part number



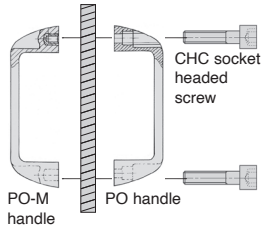
White: medical
Add: **/W**
to end of part number



PO handle



PO-M handle



Back to back mounting

DISCOUNTS

Qty	1+	6+	20+	50+	100+	250+
Disc.	List	-5%	-10%	-15%	-20%	On request

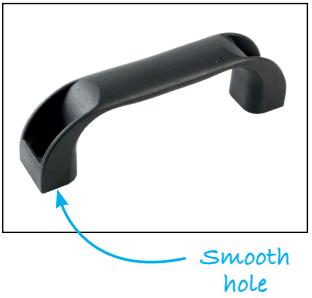
Part number	B	A	E	F	C	G	H	ØD	Ød	Stock*	Price each 1 to 5
With smooth hole											
PO93-6	93,5	112	21	36	30	6	7	10,5	6,5	✔	4,16 €
PO117-6	117	139	26	41	34	6	9	10,5	6,5	✔	4,53 €
PO117-8	117	139	26	41	34	6	9	13,0	8,5	✔	4,53 €
PO132-6	132	156	27	45	37	9	7	10,5	6,5	✔	6,18 €
PO132-8	132	156	27	45	37	7	9	13,0	8,5	✔	9,09 €
PO179-8	179	204	28	50	42	8	9	13,0	8,5	✔	9,09 €
With threaded hole											
PO93-M5	93,5	112	21	36	30	-	9	M5	-		5,35 €
PO93-M6	93,5	112	21	36	30	-	9	M6	-	✔	6,38 €
PO117-M6	117	139	26	41	34	-	9	M6	-	✔	6,70 €
PO117-M8	117	139	26	41	34	-	9	M8	-	✔	6,70 €
PO132-M6	132	156	27	45	37	-	9	M6	-	✔	7,49 €
PO132-M8	132	156	27	45	37	-	9	M8	-	✔	7,49 €
PO179-M8	179	204	28	50	42	-	9	M8	-	✔	10,84 €

**Depending on availability - Dimensions in mm*

Push/pull handle

PHT For use in high temperatures up to 250°C

- ***Heavy-duty handle, resists high temperatures***
- *Working temperature:*
  Continuous operation: max + 150/160°C
  Occasional use: + 250°C max
- *Material:*
  Thermoplastic PPA, glass-fibre renforced, black finish



Applications

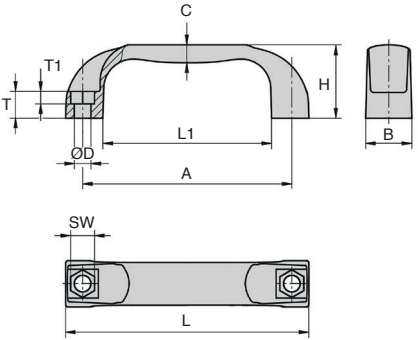
-Ovens
- *Machines generating heat*

Mounting

- *The mounting hole allows the handle to be secured with either a cylindrical or hexagonal headed screw.*
- *Front or rear mounting*

150°C Continuously

250°C For short periods



DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	Net	-5%	-15%	On request

Part number	A	B	C	ØD	H	L	L1	SW	T	T1	Load (N)	Stock*	Price each 1 to 5
PHT-117	117	26	10	9	41	136	94	13	15	8	1500	✔	9,13 €
PHT-132	132	27	11	9	44	154	112	13	16	8	1500	✔	14,49 €

**Depending on availability - Dimensions in mm*

Push/pull handle

For use in high temperatures up to 250°C PHTss

- ***Heavy-duty handle, resists high temperatures***
- *Working temperature:*
  Continuous operation: max + 150/160°C
  Occasional use: + 250°C max
- *Material:*
  Thermoplastic PPA, glass-fibre renforced, black finish
  Threaded insert: stainless steel





Applications

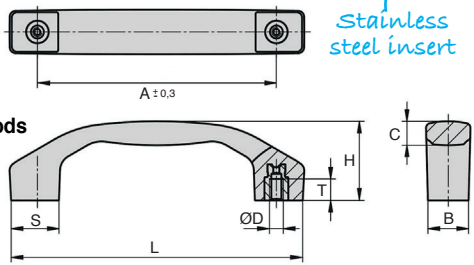
- *This handle is larger than most and has an ergonomic design.*
- *Easy to clean thanks to a closed and smooth design.*
- *For use in the food or medical industries.*

Mounting

- *Rear mounting*

150°C Continuously

250°C For short periods



DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	Net	-5%	-15%	On request

Part number	A	B	C	ØD	H	L	S	T	Load (N)	Stock*	Price each 1 to 5
PHT-100/SS	100	17	10,3	M5	34,0	122,5	20	9	1000	-	19,45 €
PHT-120/SS	120	21	12,4	M6	41,0	146,0	24	12	1000	✔	23,31 €
PHT-140/SS	140	24	15,4	M8	46,5	170,0	28	12	1000	✔	32,10 €

**Depending on availability - Dimensions in mm*

Front fixing handle

Stock € Eco

PGMT

Steel or stainless steel

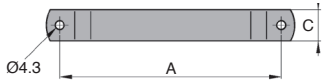
- **Push/pull handle**
- Front fixing
- Materials:
  Galvanised steel
  Stainless steel, 304

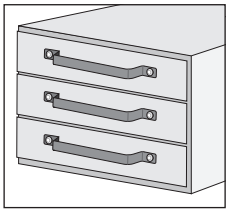
Info.

- The handle is made from pre-galvanized steel.
- Cut edges and holes may therefore not be galvanised









Typical application

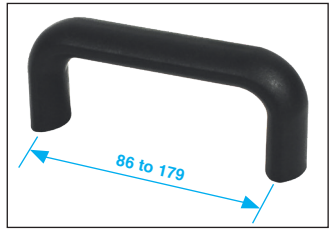
DISCOUNTS

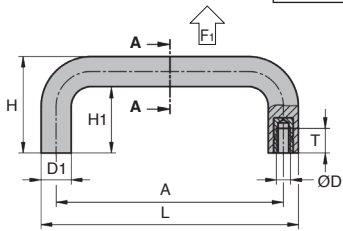
Qty	1+	6+	20+	50+
Disc.	List	-5%	-15%	On request

Part number	Material	Finish	A	B	C	F	Weight (g)	Stock*	Price each 1 to 5
PGMT107-4/AG	Galvanised steel	Natural	107	21	15	120	32	✔	4,43 €
PGMT107-4/SS	Stainless steel 304	Deburred	107	21	15	120	32	✔	8,49 €

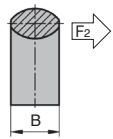
*Depending on availability - Dimensions in mm

- ***Gripping handle for both pushing and pulling***
- *Rear mounting*
- *Material:*
  Black glass-fibre reinforced thermoplastic, brass threaded insert





Section A-A



DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-5%	-15%	On request

Part number	A	B	ØD	D1	H	H1	L	T	F1 (N)	F2 (N)	Stock*	Price each 1 to 5
PGM86-M5	86	20	M5	12,5	40	28	98,5	10	4000	1500	✔	7,90 €
PGM86-M6	86	20	M6	12,5	40	28	98,5	9	4000	1500	✔	8,30 €
PGM94-M5	94	20	M5	12,5	40	28	106,5	10	3300	1600	✔	8,27 €
PGM94-M6	94	20	M6	12,5	40	28	106,5	9	3300	1600	✔	8,52 €
PGM117-M5	117	25	M5	16,0	50	34	134,0	10	4400	1800	✔	8,80 €
PGM117-M6	117	25	M6	16,0	50	34	134,0	9	4400	1800	-	9,32 €
PGM117-M8	117	25	M8	16,0	50	34	134,0	14	4400	1800	✔	9,57 €
PGM120-M5	120	25	M5	16,0	50	34	134,0	10	5200	2400	-	9,07 €
PGM120-M6	120	25	M6	16,0	50	34	134,0	9	5200	2400	✔	9,57 €
PGM120-M8	120	25	M8	16,0	50	34	134,0	14	5200	2400	✔	9,82 €
PGM132-M5	132	25	M5	16,0	50	34	148,0	10	3700	2600	✔	9,32 €
PGM132-M6	132	25	M6	16,0	50	34	148,0	9	3700	2600	✔	10,07 €
PGM132-M8	132	25	M8	16,0	50	34	148,0	14	3700	2600	-	10,35 €
PGM150-M6	150	29	M6	18,0	58	40	168,0	15	5900	1900	-	11,03 €
PGM150-M8	150	29	M8	18,0	58	40	168,0	14	5900	1900	-	11,15 €
PGM150-M10	150	29	M10	18,0	58	40	168,0	14	5900	1900	-	11,89 €
PGM179-M8	179	29	M8	18,0	58	40	197,0	14	3800	3200	✔	12,84 €
PGM179-M10	179	29	M10	18,0	58	40	197,0	14	3800	3200	-	13,19 €

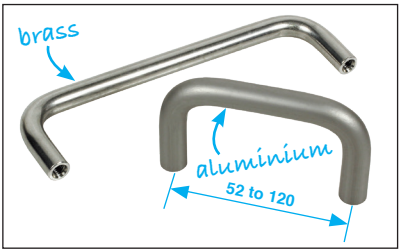
**Depending on availability - Dimensions in mm*

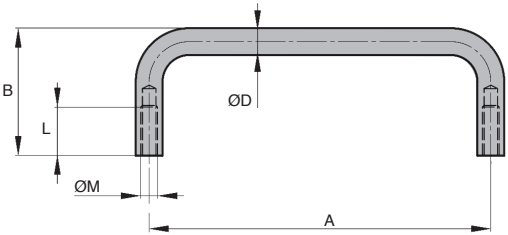
Push/pull handle

PGM

Aluminium or brass

- ***Gripping handle for both pushing and pulling***
- *Rear mounting*
- *Materials:*
  - *Aluminium, natural finish*
  - *Aluminium, polished*
  - *Chromed brass*
  - *Nickel plated brass*





DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-5%	-15%	On request

Part number	Material	Finish	A	B	ØD	L	ØM	Weight (g)	Stock*	Price each 1 to 5
PGM52-M4/ALA	aluminium	anodized, natural	52	34	8	10	M4	14	✔	9,99 €
PGM80-M4/ALA	aluminium	anodized, natural	80	34	8	12	M4	17	-	8,41 €
PGM100-M4/ALP	aluminium	polished	100	30	7	8	M4	14	✔	6,01 €
PGM100-M4/ALA	aluminium	anodized, natural	100	34	8	12	M4	20	✔	8,89 €
PGM100-M4/BRC	brass	chromed	100	30	7	8	M4	44	✔	8,79 €
PGM100-M4/BRN	brass	nickel plated	100	30	7	8	M4	44	-	10,33 €
PGM120-M4/ALA	aluminium	anodized, natural	120	34	8	10	M4	23	✔	9,45 €

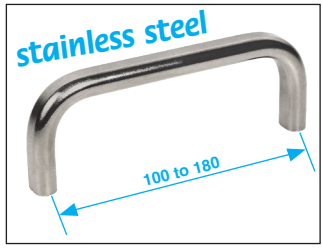
**Depending on availability - Dimensions in mm*

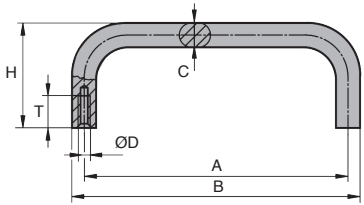
Stainless steel push/pull handle

Stainless steel

PGMSS

- ***Gripping handle for both pushing and pulling***
- *Rear mounting*
- *Material:*
  Stainless steel 304, satin polished







DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-5%	-15%	On request

Part number	A	B	C	C1	ØD	H	T	Load (N)	Stock*	Price each 1 to 5
PGM100-M5/SS	100	108	8	12	M5	39	10	1000	✔	18,92 €
PGM120-M5/SS	120	128	8	12	M5	39	10	1000	✔	19,50 €
PGM150-M5/SS	150	160	10	15	M5	39	10	1000	✔	21,09 €
PGM180-M5/SS	180	190	10	15	M5	39	10	1000	✔	22,79 €

**Depending on availability - Dimensions in mm*

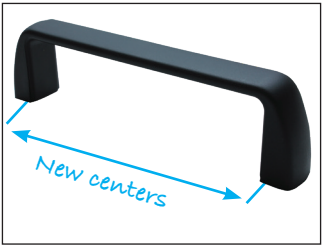
Push/pull handle

PCA

Thermoplastic

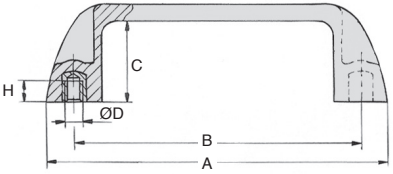
Gripping handle for both pushing and pulling

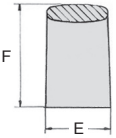
- *Rear mounting*
- *Working T° -30°C to +130°C*
- *Materials:*
  Thermoplastic PA6 glass fiber reinforced
  Brass inserts with tapped blind hole



Advantages

- *Very strong*
- *110mm and 120mm centres correspond to German standards*
- *No product retention*





DISCOUNTS

Qty	1+	6+	20+	50+	100+	250+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	B	A	E	F	C	H	ØD	Weight (g)	Stock*	Price each 1 to 5
PCA93-M5	93,5±0,5	111	23	36	29	9	M5	41	-	5,41 €
PCA93-M6	93,5±0,5	111	23	36	29	9	M6	42	-	5,41 €
PCA105-M5	105±0,5	121	26	37	29	9	M5	46	-	5,79 €
PCA105-M6	105±0,5	121	26	37	29	9	M6	48	-	5,79 €
PCA110-M5	110±0,5	133	26	40	32	9	M5	58	-	6,30 €
PCA110-M6	110±0,5	133	26	40	32	9	M6	60	-	6,30 €
PCA117-M5	117±1	133	26	40	32	9	M5	57	-	6,51 €
PCA117-M6	117±1	133	26	40	32	9	M6	59	-	6,51 €
PCA117-M8	117±1	133	26	40	32	9	M8	61	-	6,51 €
PCA120-M8	120±1	137	26	40	32,5	9	M8	58	-	6,61 €
PCA132-M8	132±1	150	26	45	37	9	M8	68	-	7,52 €
PCA150-M8	150±1	169	27	45	37	9	M8	76	-	8,41 €
PCA179-M8	179±1	200	28	51	42	9	M8	101	-	9,61 €
PCA179-M10	179±1	200	28	51	42	13	M10	101	-	9,64 €

**Depending on availability - Dimensions in mm*

Push/pull handle antistatic

Prevents occurrence of electrostatic spark PAS

Eliminates electrical charges

- *Materials :*
  Reinforced PA thermoplastic, graphite black (RAL9011)

Mounting

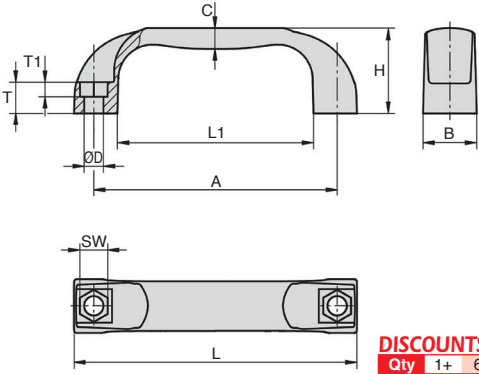
- *Front or rear mounting*

Advantages

- *These products can be used for electrostatic discharge applications applications or areas where electrostatic discharge protection (EPA) in accordance with DIN EN61340-5-1*
- *The fastening hole is designed to accept the head of a cap or hexagon head screw or a hexagon nut*



Antistatic



DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-5%	-15%	On request

Part number	A	B	C	ØD	H	L	L1	SW	T	T1	Load (N)	Price each 1 to 5
PAS117-9	117	26	10	9	41	136	94	13	15	8	1500	11,82 €
PAS150-9	150	27	11	9	44	172	132	13	16	8	1500	16,37 €

Dimensions in mm

Recessed handle, clip-in

PENC

Thermoplastic

- ***Handle for carrying or push/pull operations, mounting by clipping into a panel***
  Material:
  Black thermoplastic (ABS)

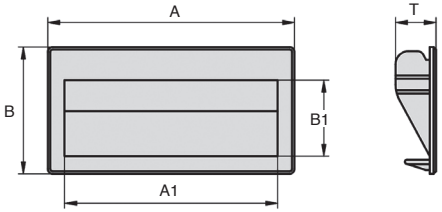


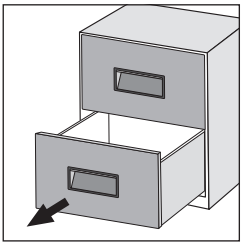
Info.

- *Gripping force is 750N per pair in steel and sheet metal housings*

Applications

- *Ideal for use on metal enclosures or drawers*
- *The PENC56-110 and PENC79-187 handles are supplied with fixing clips.*





Typical application

DISCOUNTS

Qty	1+	6+	20+	50+	100+	250+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	A	A1	B	B1	T	Mounting hole	For wall thickness (mm)	Load (N)	Stock*	Price each 1 to 5
PENC40-90	90	79	40,0	30,0	16	83X34	0,75 to 1,5	375	✔	5,82 €
PENC56-110	110	95	56,3	33,8	18	103X49	0,75 to 1,5	375	✔	6,60 €
PENC79-187	187	164	79,0	54,0	22	171X73	1,5 to 2	375	✔	8,57 €

**Depending on availability - Dimensions in mm*

Recessed handle, screw fixing

Thermoplastic PENV

Improved grip



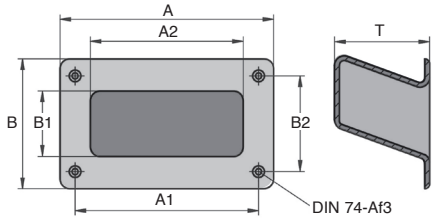
- ***Handle for carrying or push/pull operations, mounts by clipping into a panel.***
- *Material:*
  Black thermoplastic (ABS)

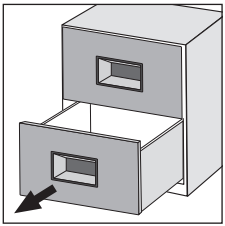
Info.

- *Maximum load: 500N per pair*

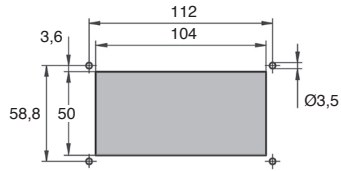
Applications

- *Ideal for use on metal enclosures or drawers*





Typical application



Mounting holes

DISCOUNTS

Qty	1+	6+	20+	50+	100+	250+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	A	A1	A2	B	B1	B2	T	Load (N)	Stock*	Price each 1 to 5
PENV79-131	131	112	94	79,0	40,0	58,8	58	250	✔	7,60 €

**Depending on availability - Dimensions in mm*

TOGGLE LATCH



p.178



p.182

RUBBER LATCH CLAMP



p.190

ROTATING BENT LEVER



p.194

TOOGLE CLAMP





p.201

p.204

LOCKING AND CLAMPING

P. 168-217

ADJUSTABLE CAM LEVER



stainless steel

p.211

RETAINING CLAMP



p.212

CAPTIVE C WASHER



p.214

ADJUSTABLE SCREW STOP



p.217

Buying guide

Toogle latch

Manual lock for hanging







Part number	GE1006	GE5 GE18	GE14	GP22 GP23 GP75	GE32
Type	elastic ring	elastic ring	elastic ring	spring	rigid
Charactéristic	slot fastening	standard	with holder-padlock	Recommended in absence of seal	in case of vibration
Material	steel or stainless steel	steel or stainless steel	steel	steel or stainless steel	steel or stainless steel
Max. tension	550N	300 ➜ 500N	500N	450 ➜ 750N	2500N
Stroke	-	-	-	-	-
Quality index	☆☆	☆☆	☆☆	☆☆	☆☆
Price	€	€	€	€€	€
Pages	1 p.170	1 p.171	1 p.172	1 p.175	1 p.178

Toogle clamp

Easily provide effective manual clamping or locking







Part number	SLV	SLH	SEH	SEV	SCH
Type	vertical lever	horizontal lever	horizontal bracket	vertical bracket	horizontal hook
Immobilisation by	pression	pression	hanging	hanging	hanging
Material	steel or stainless steel	steel	steel or stainless steel	steel or stainless steel	steel or stainless steel
Force	700 ➜ 8000N	320 ➜ 650N	1800 ➜ 4500N	1800 ➜ 4500N	1500 ➜ 4000N
Quality index	☆☆	☆☆	☆☆	☆☆	☆☆
Price	€€	€€	€€€	€€€	€€€
Pages	1 p.198	1 p.200	1 p.203	1 p.202	1 p.201

							
	GAC	**SRG**	**SVG**	**GEC**	**ACM**	**GT64**	**GT64R**
	rigid	rigid	rigid	rubber	rubber	turn-to-open	turn-to-open
	Lockable	adjustable	adjustable	simple	simple	standard	with spring
	steel or stainless steel	steel or stainless steel	steel or stainless steel	elastomer	elastomer	steel or stainless steel	steel or stainless steel
	-	-	-	-	-	80N	80N
	-	77,3 ➜ 83 117,4 ➜ 128	82 ➜ 92 174 ➜ 190	-	3	6	6
	☆☆	☆☆	☆☆	☆	☆	☆	☆☆
	€€	€€	€€	€€	€	€	€
	1 p.180	1 p.182	1 p.186	1 p.190	1 p.191	1 p.194	1 p.195

				
	SLVVLOK	**SLVHLOK**	**SLHVLOK**	**SLHHLOK**
	With locking mechanism	With locking mechanism	With locking mechanism	With locking mechanism
	pression	pression	pression	pression
	steel	steel	steel	steel
	1350 ➜ 5500N	1350 ➜ 5500N	1350 ➜ 5500N	1350 ➜ 5500N
	☆☆☆	☆☆☆	☆☆☆	☆☆☆
	€€€	€€€	€€€	€€€
	1 p.207	1 p.206	1 p.205	1 p.204

Flexible toggle latche

GE1006

Slot fastening

- **Hook fastening**
- Ring is slightly flexible
- Material:
  White zinc steel or stainless steel 303

Steel or stainless steel

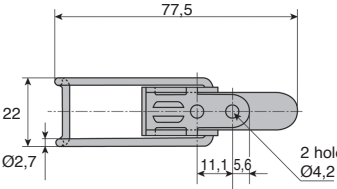


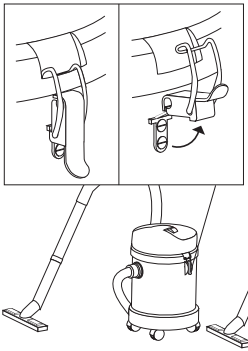
Assembly

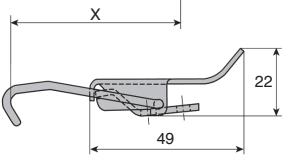
- Approx mounting dimension:
  X = 56.6mm to withstand a tension of 400N

Info.

- **Not sold individually, please contact us for details**







DISCOUNTS

Qty	1+	51+	101+	250+	400+	500+
Disc.	List	-10%	-15%	-20%	-25%	On request

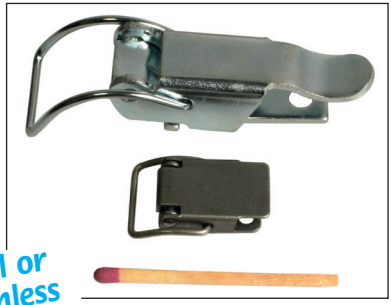
Part number	Wire Ø	Lever thickness	Back-plate thickness	Max. Tension (N)	Weight (g)	Stock*	Price each 1 to 50
Steel							
GE1006-ZB	2,7	15/10th	20/10th	550	25	✔	2,00 €
Stainless steel							
GE1006-SS	2,5	15/10th	20/10th	550	24	✔	9,58 €

Subject to availability - Dimensions in mm

Standard and miniature versions

GE5
GE18

- **Hook *fastening***
- *Material:*
  White zinc steel or stainless steel 303



Assembly

- **GE5-ZB** *and* **GE5-SS** *are used with* **AC121-ZB** *and* **AC121-SS** *hooks, dimension X = 77.5mm to withstand a tension up to 350N*
- **GE18-ZB** *and* **GE18-SS** *are used with* **AC118-ZB** *and* **AC118-SS** *hooks, dimension X = 31.1mm to withstand a tension up to 150N*
- *Dimension X taken on the first hole of the hook.*

Advantages

- *Very flexible*

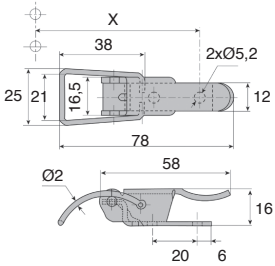
steel or stainless steel

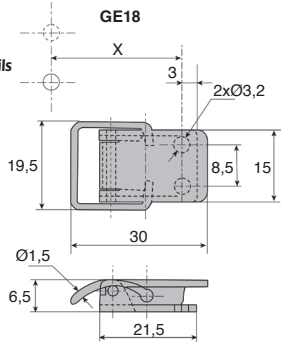
Info.

- ***Not sold individually, please contact us for details***

Accessories

- Hooks **AC121, AC118** *(tome 1 p.174)*





DISCOUNTS

Qty	1+	51+	101+	250+	400+	500+
Disc.	List	-10%	-15%	-20%	-25%	On request

Part number	Material	wireØ	Lever thickness mm	Back-plate thickness	Max tension (N)	Weight (g)	Stock*	Price each 1 to 50
Standard								
GE5-ZB	steel	2,0	20/10th	20/10th	500	36,0	✔	3,64 €
GE5-SS	stainless steel	2,0	20/10th	20/10th	500	36,0	✔	7,35 €
Miniature								
GE18-ZB	steel	1,5	8/10th	10/10th	300	6,5	✔	2,15 €
GE18-SS	stainless steel	1,5	8/10th	10/10th	300	6,5	✔	3,47 €

**Subject to availability - Dimensions in mm*

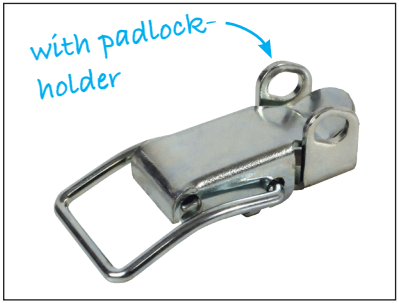
Flexible toggle latche

With padlock-holder

Stock Sta Ste

GE14

- ***Hook fastening***
- *Material:*
  White zinc steel



Assembly

- **GE14-ZB** *is used with* **AC101-ZB** *hook, dimension X = 53.9mm to withstand a tension up to 350N*
- *Dimension X taken on the first hole of the hook.*

Advantages

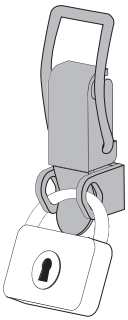
- *Flexible positioning*
- *Can be operated many times without loss of clamping force*
- *Extended tolerance on positioning*

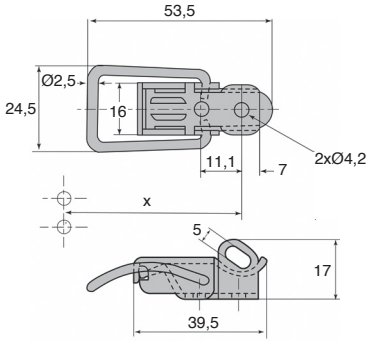
Info.

- ***Not sold individually, please contact us for details***

Accessory

- *Hooks* **AC101** **(tome 1 p.173)**





DISCOUNTS

Qty	1+	51+	101+	250+	400+	500+
Disc.	List	-10%	-15%	-20%	-25%	On request

Part number	Wire Ø	Lever thickness	Back-plate thickness	Max. tension (N)	Weight (g)	Stock*	Price each 1 to 50
With padlock-holder							
GE14-ZB	2,5	15/10th	2mm	500	21,9	✔	3,84 €

**Subject to availability - Dimensions in mm*

Hook for latch

Widths: 12, 13, 18 and 20mm

ACZB
ACSS

- **Hook fastening**
- Material:
  White zinc steel or stainless steel 303

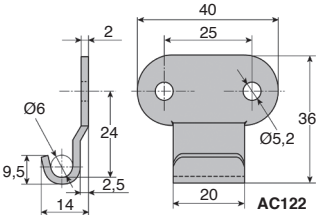


Selection

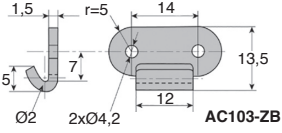
- Choose your own hook/latch combination by simply verifying the interior width of the ring and selecting a hook with a smaller width

Info.

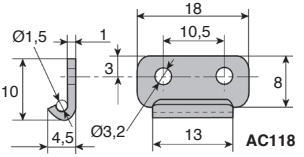
- **Not sold individually, please contact us for details**



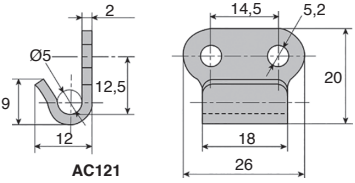
AC122



AC103-ZB



AC118



AC121

DISCOUNTS

Qty	1+	51+	101+	250+	400+	500+
Disc.	List	-10%	-15%	-20%	-25%	On request

Part number	Suitable for latch	Weight (g)	Stock*	Price each 1 to 50
Steel				
AC103-ZB	-	3,4	-	0,30 €
AC118-ZB	GE18-ZB	1,5	✔	0,22 €
AC121-ZB	GE5-ZB	9,4	✔	0,49 €
AC122-ZB	GP22-ZB and GP23-ZB	1,9	✔	0,93 €
Stainless steel				
AC118-SS	GE18-SS	1,5	✔	0,45 €
AC121-SS	GE5-SS	9,4	✔	1,33 €
AC122-SS	GP22-SS and GP23-SS	1,9	✔	2,60 €

*Subject to availability - Dimensions in mm

Hook for latch

Stock Sta Ste

ACZB
ACSS

15mm wide versions

- **Hook fastening**
- Material:
  White zinc steel or stainless steel 303

Selection

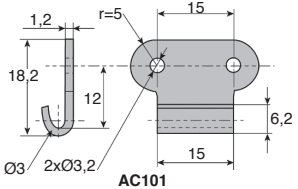
- Choose your own hook/latch combination by simply verifying the interior width of the ring and selecting a hook with a smaller width

Info.

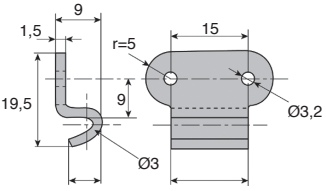
- **Not sold individually, please contact us for details**

steel or stainless steel

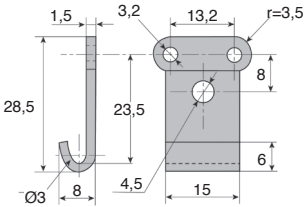




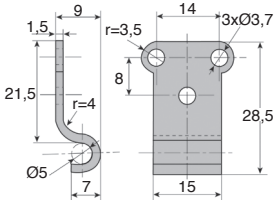
AC101



AC106-ZB



AC109-ZB



AC111-ZB

DISCOUNTS

Qty	1+	51+	101+	250+	400+	500+
Disc.	List	-10%	-15%	-20%	-25%	On request

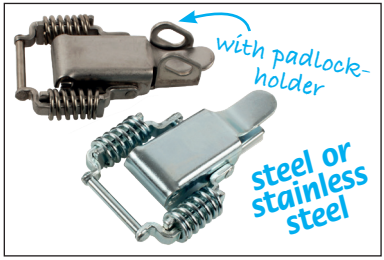
Part number	Suitable for latch	Weight (g)	Stock*	Price each 1 to 50
Steel				
AC101-ZB	GE14-ZB	4,7	✔	0,68 €
AC106-ZB	GE14-ZB	5,2	✔	1,08 €
AC109-ZB	GE14-ZB	6,2	✔	0,93 €
AC111-ZB	GE14-ZB	6,8	✔	1,44 €
Stainless steel				
AC101-SS	GE1006-SS	4,7	✔	0,68 €

*Subject to availability - Dimensions in mm

Recommended in case of vibration

GP22
GP23

- **Wide positioning tolerances**
- Very adaptable
- Suitable for vibrations
- Materials:
  White zinc steel or stainless steel 303



Assembly

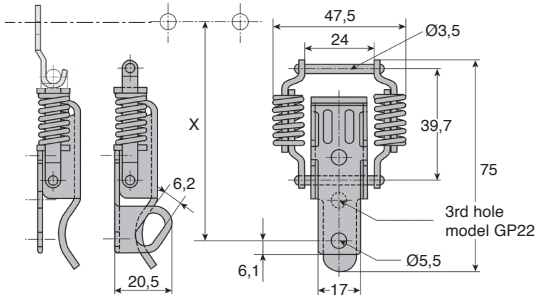
- When used with **AC122** hook, dimension X= 87mm to withstand a tension of 350N
- Dimension X taken on the first hole of the hook.

Info

- **Not sold individually, please contact us for details**

Accessory

- Hooks **AC122** **(tome 1 p.174)**



DISCOUNTS

Qty	1+	51+	101+	250+	400+	500+
Disc.	List	-10%	-15%	-20%	-25%	On request

Part number	Material	Wire Ø	Lever thickness	Back-plate thickness	Max. tension (N)	Weight (g)	Stock*	Price each 1 to 50
With padlock holder								
GP22-ZB	Steel	1,7	20/10th	25/10th	450	75	✔	8,59 €
GP22-SS	Stainless steel	2,7	20/10th	25/10th	450	75	✔	17,71 €
Without padlock holder								
GP23-ZB	Steel	2,5	20/10th	25/10th	450	75	✔	8,83 €
GP23-SS	Stainless steel	3,5	20/10th	25/10th	450	75	✔	18,23 €

**Subject to availability - Dimensions in mm*

Sprung toggle latch with connecting link

Sta Ste

GP75 Recommended in case of vibration

- ***High retaining strength for a spring latch***
- *Lever can be locked to the mounting bracket by retractable handle*
- *Easy operation of the release handle*
- *Can be locked*
- *Large spring range*
- *Wide positioning tolerance*
- *Suitable for vibrations*
- *Materials:*
  White zinc plated steel
  18/8 stainless steel, natural finish



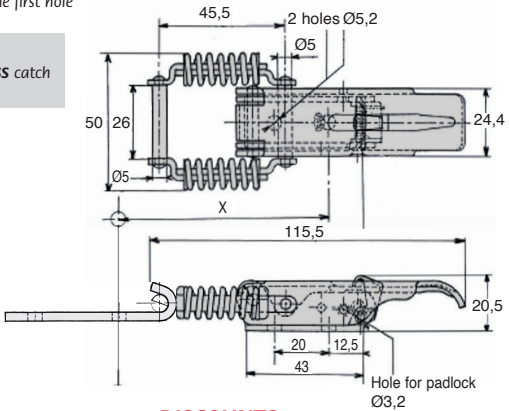
Steel or stainless steel

Installation

- *Approximate mounting dimension: Using an AC144 catch plate, X = 82.5 mm for a tension of about 550N*
- *Dimension X taken on the first hole of the hook.*

Accessories

- **AC144-ZZB** *and* **AC144-SS** *catch plates* **(tome 1 p.177)**



DISCOUNTS

Qty	1+	51+	101+	250+	400+
Disc.	List	-10%	-15%	-20%	On request

Part number	Material	Wire Ø	Lever thickness	Mounting plate thickness	Max tension (N)	Weight (g)	Stock*	Price each 1 to 50
GP75-ZB	Steel	5,00	20/10th	20/10th	750	125	✔	12,31 €
GP75-SS	Stainless steel	5,00	20/10th	20/10th	750	125	✔	21,06 €

**Depending on availability - Dimensions in mm*

Sta Ste Flat catch plate for toggle latch

22mm wide version

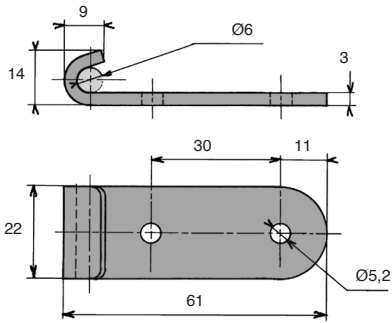
AC144

- **Closed by latching**
- Materials:
  White zinc plated steel
  18/8 stainless steel, natural finish

Accessories

- **GP75-ZB** and **GP75-SS** toggle latches
  (tome 1 p.176)





DISCOUNTS

Qty	1+	51+	101+	250+	400+
Disc.	List	-10%	-15%	-20%	On request

Part number	Material	Suitable for latch	Weight (g)	Stock*	Price each 1 to 50
Flat					
AC144-ZB	Steel	GP75-ZB	35	✔	0,98 €
AC144-SS	Stainless steel	GP75-SS	35	✔	3,10 €

**Depending on availability - Dimensions in mm*

Rigid toggle latch

GE32 For bonnet closures with crushable seals

Sta Ste

- **Closed by latching**
- High strength
- Lever locks on the mounting bracket
- Can be locked
- "Ammunition box" style clasp
- Materials:
  White zinc plated steel
  18/8 stainless steel, natural finish

Steel or stainless steel

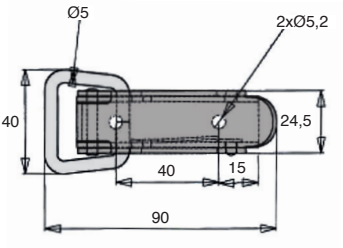


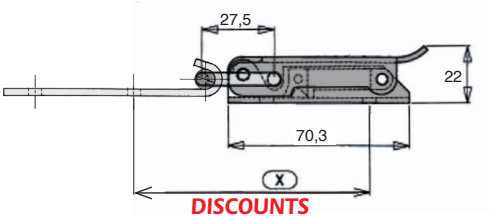
Installation

- Approximate mounting dimension: Using an AC157 catch plate, X = 94 mm for a tension of about 150daN (for the long version)
- Dimension X taken on the first hole of the hook.

Accessories

- **AC156-ZB**, **AC156-SS**, **AC157-ZB** and **AC157-SS** catch plates
  (tome 1 p.179





DISCOUNTS

Qty	1+	51+	101+	250+	400+
Disc.	List	-10%	-15%	-20%	On request

Part number	Material	Wire Ø	Lever thickness	Mounting plate thickness	Max tension (N)	Weight (g)	Stock*	Price each 1 to 50
GE32-ZB	Steel	5,00	20/10th	20/10th	2500	103	✔	3,17 €
GE32-SS	Stainless steel	5,00	20/10th	20/10th	2500	109	✔	13,02 €

*Depending on availability - Dimensions in mm

Catch plate for toggle latch

25.5mm wide version

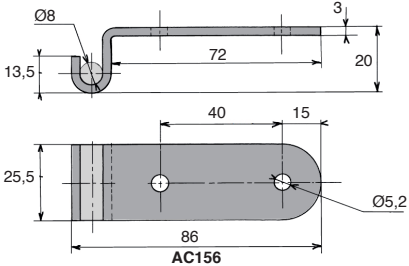
AC156
AC157

- **Closed by latching**
- Materials:
  White zinc plated steel
  18/8 stainless steel, natural finish

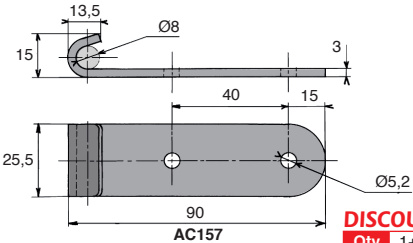
Accessories

- **GE32-ZB** and **GE32-SS** toggle latches
  (tome 1 p.178)





AC156



AC157

DISCOUNTS

Qty	1+	51+	101+	250+	400+
Disc.	List	-10%	-15%	-20%	On request

Part number	Material	Suitable for latch	Weight (g)	Stock*	Price each 1 to 50
Right angled					
AC156-ZB	Steel	GE32-ZB	59	✔	1,24 €
AC156-SS	Stainless steel	GE32-SS	59	✔	4,67 €
Flat					
AC157-ZB	Steel	GE32-ZB	59	✔	1,01 €
AC157-SS	Stainless steel	GE32-SS	59	✔	4,67 €

**Depending on availability - Dimensions in mm*

Latch clamp with lock

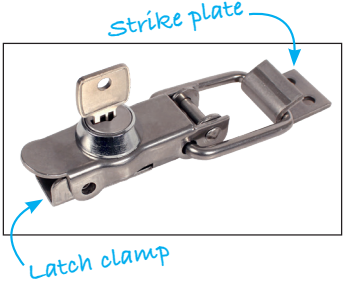
GAC

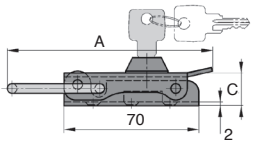
Lockable

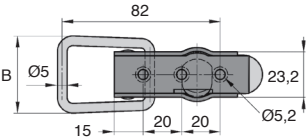
- ***Snap closing***
- *Supplied with 2 identical keys*
- *Latch clamp and strike plates supplied separately*
- *Material:*
  Galvanised steel

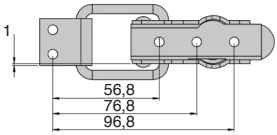
Advantage

- *Can be locked using a key*

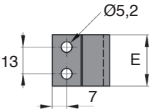


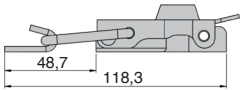












Hole layout

DISCOUNTS

Qty	1+	10+	20+	50+	100+
Disc	List	-3%	-5%	-10%	On request

Part number	Material	Finish	A	B	C	D	E	Weight (g)	Stock*	Price each 1 to 9
Latch clamp										
GAC-106	steel	Galvanized	106,5	40,0	17,0	-	-	132	✔	18,81 €
Strike plate										
GAC-106G	steel	Galvanized	-	-	-	28	25	24	✔	4,11 €

**Depending on availability - Dimensions in mm*

MINIMUM ORDER 20€*

FREE DELIVERY FOR ORDERS 100€* OR MORE

€ VOLUME DISCOUNT

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MADE TO MEASURE AVAILABLE



DELIVERY 24/48 H*

* Certain conditions apply - Deliveries to mainland France only

Adjustable rigid latch clamp

Stock Ste Sta

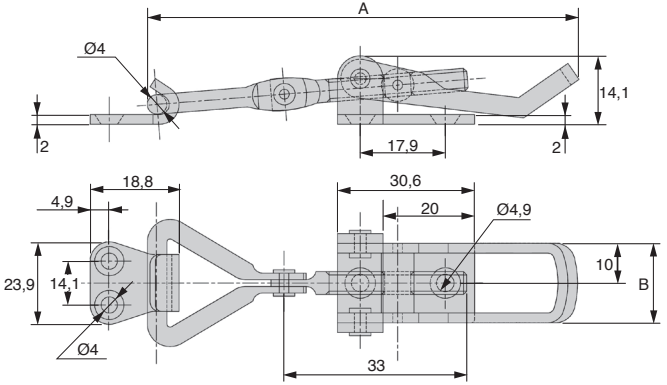
SRG20 Span adjustable from 77.3mm to 83mm

- **Adjustable latch clamp with cath-plate**
- Rigid latch clamp
- Includes 1 latch clamp and 1 cath-plate
- Materials:
  Galvanised steel
  Stainless steel 304



Application

- Clamping system for industrial applications
- Fold down the handle after attaching the hook
- Span is adjusted by turning the hook



DISCOUNTS

Qty	1+	10+	20+	50+
Disc.	List	-3%	-5%	On request

Part number	A	B	Material	Finish	Weight (g)	Stock*	Price each 1 to 9
SRG20-77-83	77,3 to 83	20	Steel	Galvanised	46	✔	7,12 €
SRG20-77-83/SS	77,3 to 83	20	S-Steel 304	Natural	46	✔	11,88 €

*Subject to availability - Dimensions in mm

Adjustable rigid latch clamp

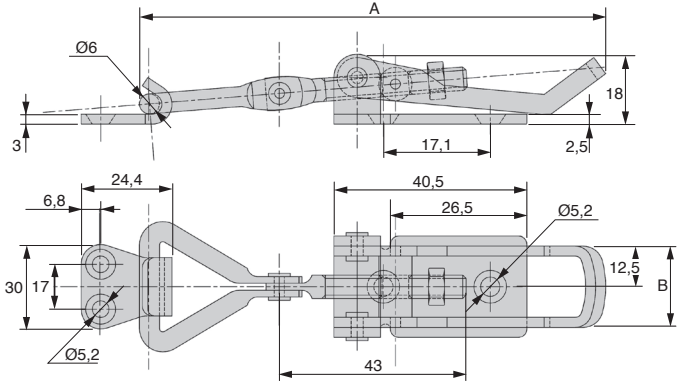
Span adjustable from 96mm to 121.7mm SRG25

- **Adjustable latch clamp with cath-plate**
- Rigid latch clamp
- Includes 1 latch clamp and 1 cath-plate
- Materials:
  Galvanised steel
  Stainless steel 304



Application

- Clamping system for industrial applications
- Fold down the handle after attaching the hook
- Span is adjusted by turning the hook



DISCOUNTS

Qty	1+	10+	20+	50+
Disc.	List	-3%	-5%	On request

Part number	A	B	Material	Finish	Weight (g)	Stock*	Price each 1 to 9
SRG25-96-121	96 to 121,7	25	Steel	Galvanised	90	✔	8,55 €
SRG25-96-121/SS	96 to 121,7	25	S-Steel 304	Natural	90	✔	19,53 €

*Subject to availability - Dimensions in mm

Adjustable rigid latch clamp

Stock Ste Sta

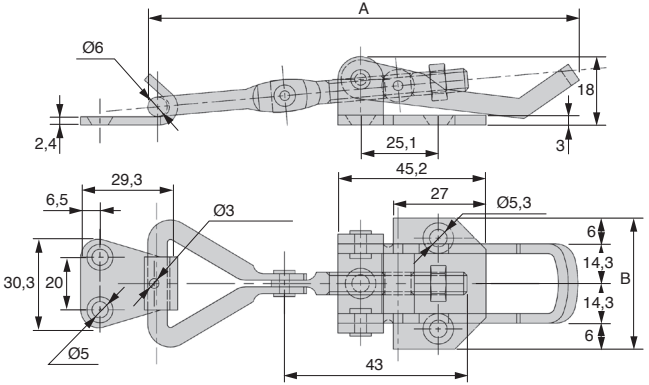
SRG40 Span adjustable from 117.4mm to 128mm

- ***Adjustable latch clamp with cath-plate***
- *Rigid latch clamp*
- *Includes 1 latch clamp and 1 cath-plate*
- *Materials:*
  Galvanised steel
  Stainless steel 304



Application

- *Clamping system for industrial applications*
- *Fold down the handle after attaching the hook*
- *Span is adjusted by turning the hook*



DISCOUNTS

Qty	1+	10+	20+	50+
Disc.	List	-3%	-5%	On request

Part number	A	B	Material	Finish	Weight (g)	Stock*	Price each 1 to 9
SRG40-117-128	117,4 to 128	40,6	Steel	Galvanised	130	✔	9,54 €
SRG40-117-128/SS	117,4 to 128	40,6	S-Steel 304	Natural	130	✔	27,10 €

**Subject to availability - Dimensions in mm*

Adjustable rigid latch clamp

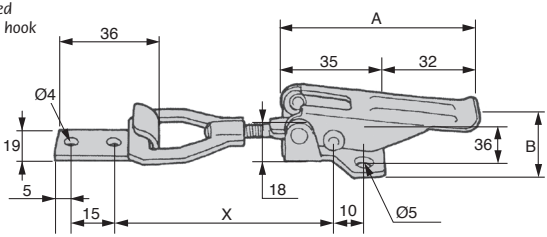
Span adjustable from 78mm to 90mm SRG52

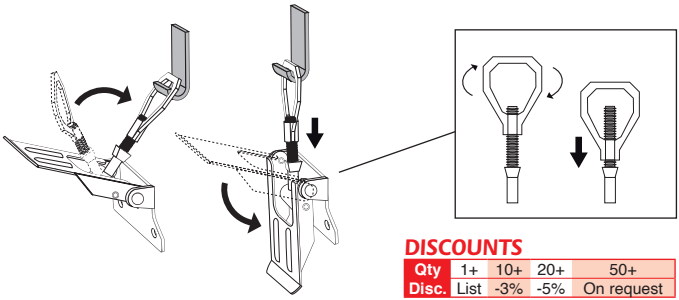
- ***Adjustable latch clamp with cath-plate***
- *Rigid latch clamp*
- *Includes 1 latch clamp and 1 cath-plate*
- *Materials:*
  Galvanised steel
  Stainless steel 304



Application

- *Clamping system for industrial applications*
- *Fold down the handle after attaching the hook*
- *Span is adjusted by turning the hook*





DISCOUNTS

Qty	1+	10+	20+	50+
Disc.	List	-3%	-5%	On request

Part number	X	A	B	Material	Finish	Weight (g)	Stock*	Price each 1 to 9
SRG52-78-90	78 to 90	67	52	Steel	Galvanised	100	✔	16,33 €
SRG52-78-90/SS	78 to 90	67	52	S-Steel 304	Natural	100	✔	31,92 €

**Subject to availability - Dimensions in mm*

Adjustable rigid latch clamp

Sta Sta

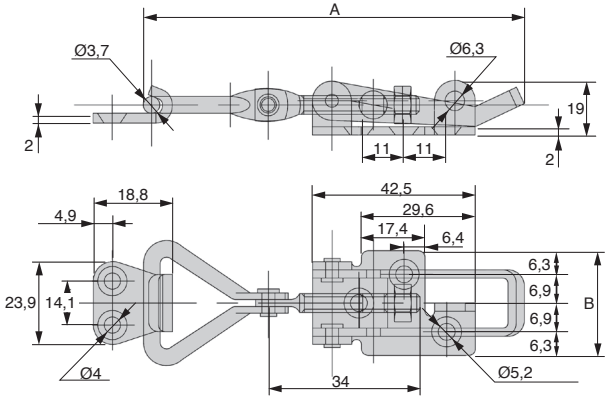
SVG26 Span adjustable from 82mm to 92mm

- **Adjustable latch clamp with cath-plate**
- Rigid latch clamp
- Includes 1 latch clamp and 1 cath-plate
- Materials:
  Galvanised steel
  Stainless steel 304



Application

- Clamping system for industrial applications
- Fold down the handle after attaching the hook
- Span is adjusted by turning the hook



DISCOUNTS

Qty	1+	10+	20+	50+
Disc.	List	-3%	-5%	On request

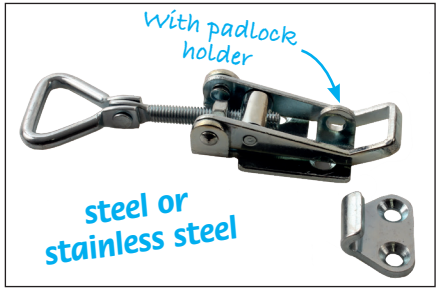
Part number	A	B	Material	Finish	Weight (g)	Stock*	Price each 1 to 9
SVG26-82-92	82 to 92	26,4	Steel	Galvanised	48	✔	8,39 €
SVG26-82-92/SS	82 to 92	26,4	S-Steel 304	Natural	48	✔	12,82 €

*Subject to availability - Dimensions in mm

Adjustable rigid latch clamp

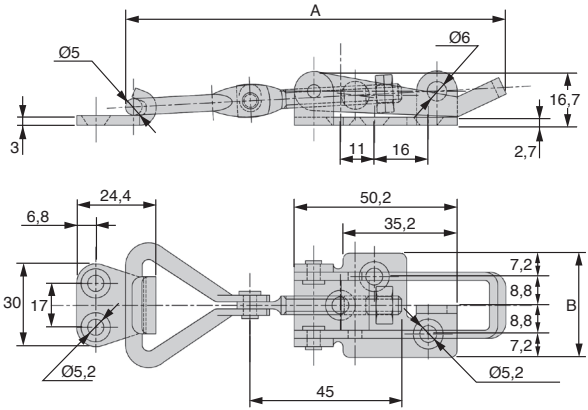
Span adjustable from 106.7mm to 121.4mm SVG32

- ***Adjustable latch clamp with cath-plate***
- *Rigid latch clamp*
- *Includes 1 latch clamp and 1 cath-plate*
- *Materials:*
  Galvanised steel
  Stainless steel 304



Application

- *Clamping system for industrial applications*
- *Fold down the handle after attaching the hook*
- *Span is adjusted by turning the hook*



DISCOUNTS

Qty	1+	10+	20+	50+
Disc.	List	-3%	-5%	On request

Part number	A	B	Material	Finish	Weight (g)	Stock*	Price each 1 to 9
SVG32-106-121	106,7 to 121,4	32	Steel	Galvanised	102	✔	8,20 €
SVG32-106-121/SS	106,7 to 121,4	32	S-Steel 304	Natural	102	✔	19,46 €

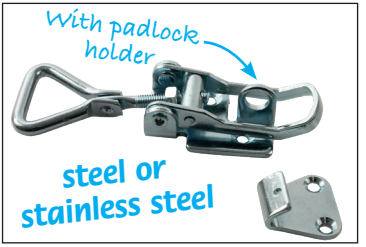
**Subject to availability - Dimensions in mm*

Adjustable rigid latch clamp

Ste Sta

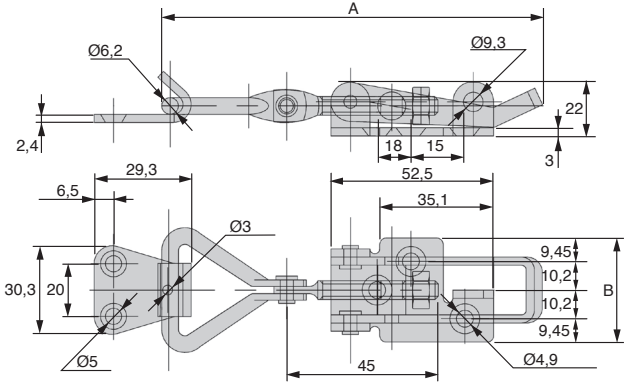
SVG39 Span adjustable from 118mm to 130.5mm

- **Adjustable latch clamp with cath-plate**
- Rigid latch clamp
- Includes 1 latch clamp and 1 cath-plate
- Materials:
  Galvanised steel
  Stainless steel 304



Application

- Clamping system for industrial applications
- Fold down the handle after attaching the hook
- Span is adjusted by turning the hook



DISCOUNTS

Qty	1+	10+	20+	50+
Disc.	List	-3%	-5%	On request

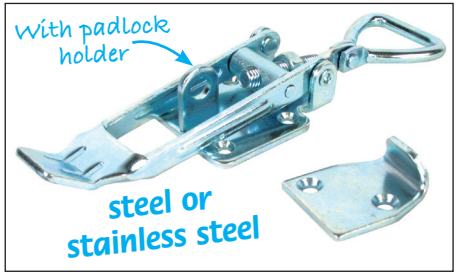
Part number	A	B	Material	Finish	Weight (g)	Stock*	Price each 1 to 9
SVG39-118-130	118 to 130,5	39,3	Steel	Galvanised	124	✔	12,43 €
SVG39-118-130/SS	118 to 130,5	39,3	S-Steel 304	Natural	124	✔	26,00 €

*Subject to availability - Dimensions in mm

Adjustable rigid latch clamp

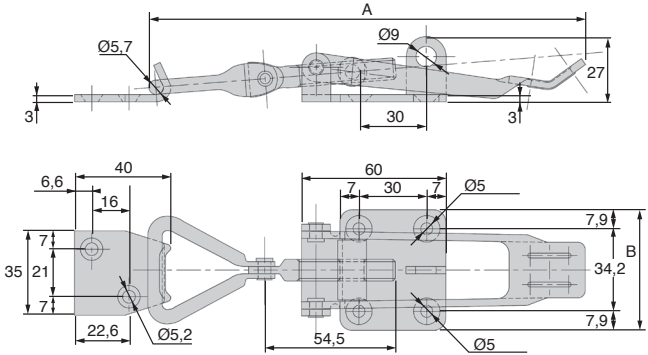
Span adjustable from 174mm to 190mm SVG50

- **Adjustable latch clamp with cath-plate**
- Rigid latch clamp
- Includes 1 latch clamp and 1 cath-plate
- Screw fixing
- Materials:
  Galvanised steel
  Stainless steel 304



Application

- Clamping system for industrial applications
- Fold down the handle after attaching the hook
- Span is adjusted by turning the hook



DISCOUNTS

Qty	1+	10+	20+	50+
Disc.	List	-3%	-5%	On request

Part number	A	B	Material	Finish	Weight (g)	Stock*	Price each 1 to 9
SVG50-174-190	174 to 190	50	Steel	Galvanised	236	✔	18,41 €
SVG50-174-190/SS	174 to 190	50	S-Steel 304	Natural	236	✔	49,78 €

*Subject to availability - Dimensions in mm

Rubber latch clamp with strike plate

GEC

Easy fastening

Suitable for outdoor use

- ***Snap to close***
- *Strike plate supplied*
- *Materials:*
  Black elastomer latch clamp
  Stainless steel strike plate

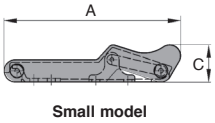
Advantages

- *Internal mechanism: once closed, the hook does not show*
- *Outdoor use*

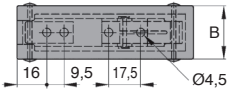


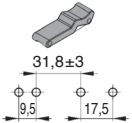
With strike plate

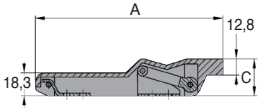




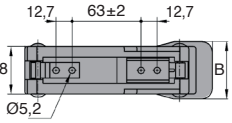
Small model

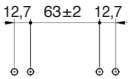






Large model





DISCOUNTS

Qty	1+	10+	20+	50+	100+
Disc.	List	-3%	-5%	-10%	On request

Part number	Material	Finish	A	B	C	Weight (g)	Stock*	Price each 1 to 9
Small model								
GEC-96	elastomer	black	96,5	29,0	20,0	36	✔	23,05 €
Large model								
GEC-151	elastomer	black	151	45,7	29,5	130	✔	32,53 €

**Depending on availability - Dimensions in mm*

Rubber manual bonnet fastener

Easy fastening

ACM-TRI

- **Manually fastened using a hook**
- **Split pin supplied**
- Material :
  Black rubber, Shore 65/70





Advantage

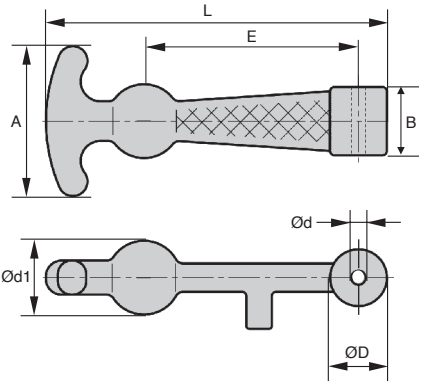
- Very easy to use

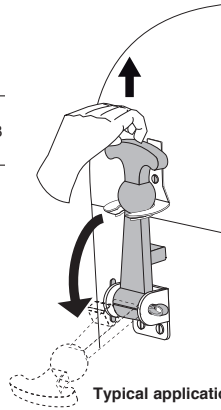
Info.

- **Not sold individually, please contact us for details**

Accessories

- See **ACM-AZ-32** and **ACM-BZ-32** hooks and **ACM-BZ-23** bracket **(tome 1 p.192, tome 1 p.193)**





Typical application

DISCOUNTS

Qty	1+	51+	101+	250+
Disc.	List	-10%	-15%	On request

Part number	L	E At rest	E Under tension	A	B	ØD	Ød1	Ød	Stock*	Price each 1 to 50
ACM-TRI-120	120	74	$77^{+/-2}$	54	25	19	25	4	✔	6,83 €

*Depending on availability - Dimensions in mm

Hook for bonnet fastener

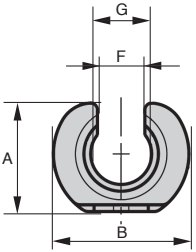
ACM-AZ
ACM-BZ

Easy fastening

- ***Material : Plated steel***
- *For use with the* **ACM-TRI-120** *bonnet fastener* **(tome 1 p.191)**

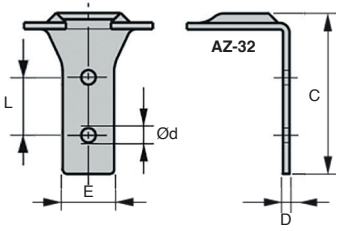
Info.

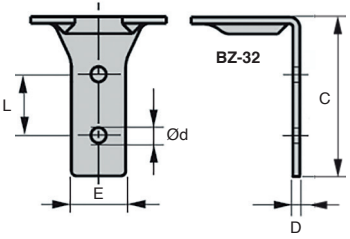
- **Not sold individually, please contact us for details**

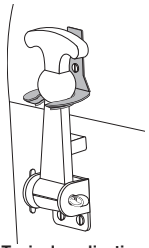












Typical application

DISCOUNTS

Qty	1+	51+	101+	250+
Disc.	List	-10%	-15%	On request

Part number	A	B	C	D	E	Ød	F	G	L	Stock*	Price each 1 to 50
ACM-AZ-32	32	40	50	2	16	4	15	18	18	✔	2,51 €
ACM-BZ-32	32	38	44	2	16	4	15	18	18	✔	2,51 €

**Depending on availability - Dimensions in mm*

Clip for bonnet fastener

Easy fastening

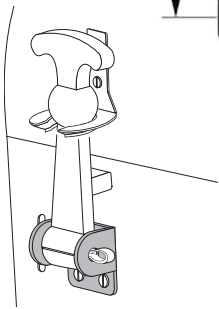
ACM-DZ

- **Material : Plated steel**
- Used to mount the **ACM-TRI-120** bonnet fastener **(tome 1 p.191)**

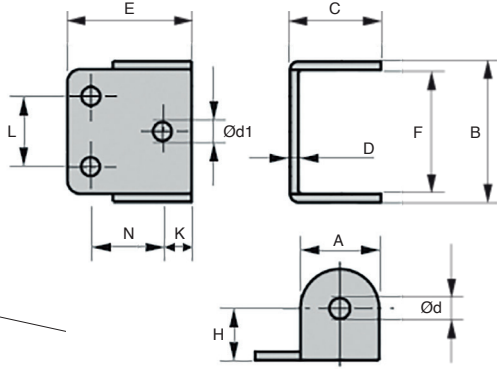


Info.

- **Not sold individually, please contact us for details**



Typical application



DISCOUNTS

Qty	1+	51+	101+	250+
Disc.	List	-10%	-15%	On request

Part number	A	B	C	D	E	F	Ød	Ød1	H	L	N	K	Stock*	Price each 1 to 50
ACM-DZ-23	19	34	22	2	30	30	5	4	12	18	15	7	✔	2,75 €

**Depending on availability - Dimensions in mm*

Turn-to-open bent lever

GT64
AC161

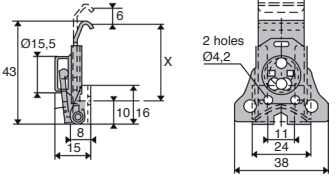
Common applications

- **Closure by eccentric cam by turning the butterfly handle**
- Automatic return of the butterfly nut by a spring system.
- Model designed to be hung in a recess (use of an **AC161 hook** is possible but not essential)
- Good tensile strength.
- Easy to operate
- Smaller footprint
- In the open position, the unit folds down completely.
- Very high safety against accidental opening (e.g. during vibration).
- Allows for seamless use and greater flexibility in positioning tolerances.
- Material:
  White galvanised steel or stainless steel

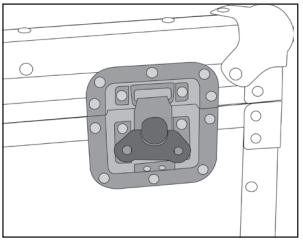


Info

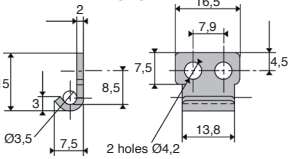
- The approximate fitting size: X = 32,7 mm for a tension of about 60 daN.
- Usable hook: **AC161**



GT64



Typical application



AC161

DISCOUNTS

Qty	1+	10+	20+	50+
Disc.	Price	-3%	-5%	On request

Part number	Material	Thickness latching tab	Thickness retaining bracket	Stroke	Max. tension (daN)	Weight (g)	Price each 1 to 9
Turn-to-open draw latch							
GT64-ZB	White galvanised steel	15/10	12/10	6	80	39	11,55 €
GT64-SS	Rough 303 stainless steel	15/10	12/10	6	80	39	13,94 €
Hook							
AC161-ZB	White galvanised steel	15/10	12/10	-	-	3,7	0,32 €
AC161-SS	Rough 303 stainless steel	15/10	12/10	-	-	3,7	0,49 €

Dimensions in mm

Turn-to-open bent lever with spring

Increased fitting tolerances

GT64R
AC161



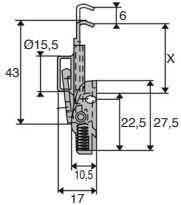
- **Closure by eccentric cam by turning the butterfly handle**
- Automatic return of the butterfly nut by a spring system.
- Model designed to be hung in a recess (use of an **AC161 hook** is possible but not essential)
- Good tensile strength.
- Easy to operate
- Smaller footprint
- In the open position, the unit folds down completely.
- Lead sealing option
- Very high safety against accidental opening (e.g. during vibration).
- Allows for seamless use and greater flexibility in positioning tolerances.
- Material:
  White galvanised steel or stainless steel

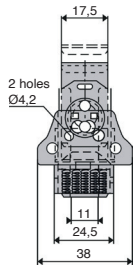
Advantage

- Compensation for tolerances on fitting sizes by 4 springs.

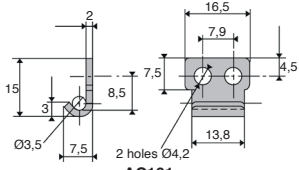
Info

- The approximate fitting size: X = 31,4 mm for a tension of about 60 daN.
- Usable hook: **AC161**





GT64R



AC161

DISCOUNTS

Qty	1+	10+	20+	50+
Disc.	Price	-3%	-5%	On request

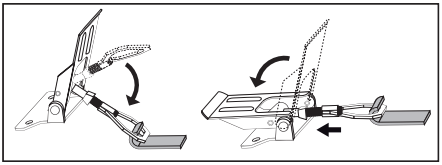
Part number	Material	Thickness latching tab	Thickness retaining bracket	Stroke	Max. tension (daN)	Weight (g)	Price each 1 to 9
Turn-to-open draw latch							
GT64R-ZB	White galvanised steel	15/10	20/10	6	80	39	13,49 €
GT64R-SS	Rough 303 stainless steel	15/10	20/10	6	80	39	16,38 €
Hook							
AC161-ZB	White galvanised steel	15/10	20/10	-	-	3,7	0,32 €
AC161-SS	Rough 303 stainless steel	15/10	20/10	-	-	3,7	0,49 €

Dimensions in mm

Toogle latch

Which toogle latch for which application?

The toogle latches allow the fixing of 2 components or a closure by hooking a cover thanks to a lever system and a hook, also called a catch-plate. The principle is based either on the deformation of the toggle (elastic ring, spring, rubber...), or on the deformation of the structure to be assembled (joint).



Rigid toogle latches

- *The ring is rigid and does not deform when the lever is operated.*



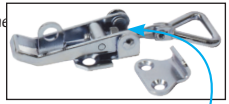
Rigid ring

Advantages :
- *High tensile forces.*
- ***Recommended for bonnet closures with crushable seals.***

See toogle latches:
- ***GE32 & GAC (tome 1 p.178-180)***
- ***SRG & SVG (tome 1 p.182-189)***

Adjustable latches clamp

- *These toogle latches are rigid toogle latches, with the to adjust the stroke before powering up.*



Adjustable stroke

Advantages:
- *For mounting with very wide tolerances.*
- ***Allows for adjustment** after a long period of use.*

See toogle latch:
- ***SRG & SVG (tome 1 p.182-189)***

Flexible toggle latches

- *The material or shape of the ring allows it to be deformed when tensioned.*



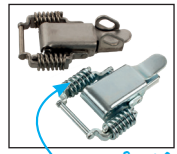
Elastic ring

Advantages:
- ***The two parts to be joined can be rigid or with medium tolerances.***
- *The attachment point can be either a hook or a groove.*

See toogle latches:
- ***GE5 & GE18 & GE14 & GE1006 (tome 1 p.171-170)***

Spring toogle latches

- The ring has built-in springs that compress when tensioned.



Advantages:
- The springs ensure a constant force.
- Toogle latches **very suitable for use in case of vibrations** or for systems with large assembly tolerances.

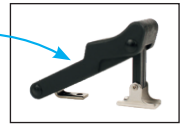
See toogle latches:
- **GP22 & GP23 (tome 1 p.175) & GP75 (tome 1 p.176)**

Rubber latches clamp

- The elasticity of these toogle latches comes from the rubber they are made of.

Advantages:
- ***Very easy to use.***
- Can withstand high stresses.

See toogle latches:
- **GEC & ACM (tome 1 p.190 & 191)**



Turn-to-open draw latch

- Closing is done by turning a butterfly which catches a hook.



Advantages:
- Once closed, the butterfly can be folded down, ***thus preventing any unintentional opening.***

See toogle latch:
- **GT64 & GT64R (tome 1 p.194)**

	Toogle latches					
	Rigid	Adjus-table	Elastic	Springs	Rubber	Turn-to-open
Increased tolerances	☹	😐	😐	☺	☺	☹
Traction force	☺	☺	😐	☺	😐	☺

Vertical toggle clamp

SLV

Retained by pressure

- ***Two materials to choose from***
- *Materials:*
  SLV *body: zinc plated steel*
  SCH/SS *body: stainless steel 18.9 (303)*
  Rivets: stainless steel
  Fastening pin and nuts: phosphated steel
  Handle: oil-resistant plastic
- *With fixing base and adjustable fastening pin*

steel or stainless steel

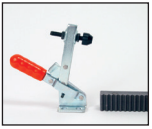


Advantages

- *The angle between retaining arm to the handle can be adjusted by removing the gudgeon*

Options

- *Mounting bracket (please ask us)*



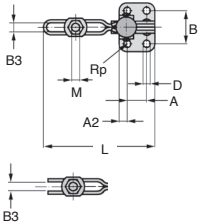


Typical application

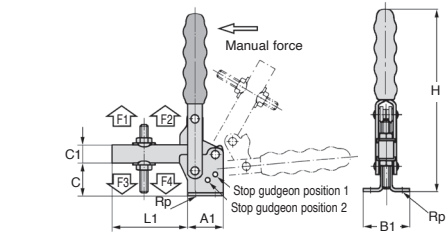
Part number Steel	Part number Stainless steel	Opening angle of retaining arm Pos.1	Opening angle of retaining arm Pos.2	Opening angle of retaining arm without gudgeon	Opening angle of handle Pos.1	Opening angle of handle Pos.2	Opening angle of handle without gudgeon	A1	B1	H
SLV-0075	SLV-0075SS	130°	-	160°	90°	-	100°	25	34	94
SLV-0100	-	95°	-	185°	65°	-	105°	29	34	98
SLV-0150	SLV-0150SS	95°	-	185°	75°	-	110°	27	38	121
SLV-0200	-	105°	-	175°	70°	-	95°	35	42	135
SLV-0250	SLV-0250SS	95°	125°	160°	70°	85°	100°	35	45	175
SLV-0300	-	105°	-	160°	65°	-	90°	43	53	186
SLV-0350	-	90°	120°	180°	70°	80°	110°	50	64	220
SLV-0450	-	90°	125°	180°	70°	85°	110°	53	64	228
SLV-0550	-	90°	120°	180°	65°	80°	110°	76	95	312

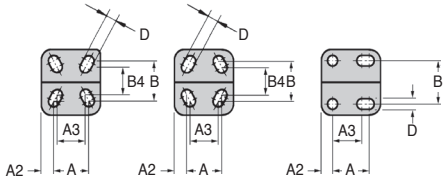
Part number Steel	Part number Stainless steel	Manual force (N)	Holding force F1(N)	Holding force F2(N)	Locking force F3(N)	Locking force F4(N)	C	C1	L1
SLV-0075	SLV-0075SS	80	700	1100	500	750	16	9,0	32
SLV-0100	-	80	700	1000	500	800	22	9,5	38
SLV-0150	SLV-0150SS	120	1350	1650	800	1050	23	11,0	43
SLV-0200	-	100	1000	2200	950	1350	30	12,7	44
SLV-0250	SLV-0250SS	190	1000	2800	900	1700	32	17,5	75
SLV-0300	-	130	2000	3700	900	1850	34	19,0	100
SLV-0350	-	230	2200	4500	1400	3000	43	22,0	95
SLV-0450	-	260	3200	7000	1400	3000	51	25,0	124
SLV-0550	-	290	3000	8000	1800	3900	84	32,0	156

**Subject to availability - Dimensions in mm*



Securing arm open for SLV-0100, SLV-0200, and SLV-0300





Hole template for part number SLV-0100

Hole template for part number SLV-0200

Hole template for part number SLV-0300

DISCOUNTS

Qty	1+	6+	15+	20+
Disc.	List	-5%	-10%	On request

Part number	A	A2	A3	B	B3	B4	D	L	M	Stock*	Price each 1 to 5
Steel											
SLV-0075	16,0	5,0	-	24,0	5,5	-	4,4	57	M5x35	✔	23,10 €
SLV-0100	16,0	6,0	14,0	24,0	5,5	17,5	4,8	67	M5x35	✔	22,84 €
SLV-0150	12,7	7,0	-	27,0	6,4	-	5,1	70	M6x50	✔	26,30 €
SLV-0200	19,0	8,0	12,7	27,0	6,3	25,0	5,5	79	M6x50	✔	26,32 €
SLV-0250	19,0	8,0	-	32,0	8,8	-	7,1	110	M8x60	✔	40,64 €
SLV-0300	25,0	9,0	19,0	34,5	8,8	-	8,0	143	M8x60	✔	48,95 €
SLV-0350	32,0	9,0	-	45,0	10,6	-	8,3	145	M10x80	✔	54,65 €
SLV-0450	32,0	10,0	-	45,0	12,7	-	8,7	177	M12x100	✔	69,46 €
SLV-0550	51,0	12,5	-	70,0	16,5	-	12,3	232	M16x150	-	93,19 €
Stainless steel											
SLV-0075SS	16,0	5,0	-	24,0	5,5	-	4,4	57	M5x35	✔	58,46 €
SLV-0150SS	12,7	7,0	-	27,0	6,4	-	5,1	70	M6x50	✔	75,14 €
SLV-0250SS	19,0	8,0	-	32,0	8,8	-	7,1	110	M8x60	✔	105,12 €

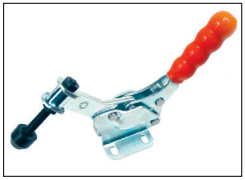
**Subject to availability - Dimensions in mm*

Horizontal toggle clamp

SLH

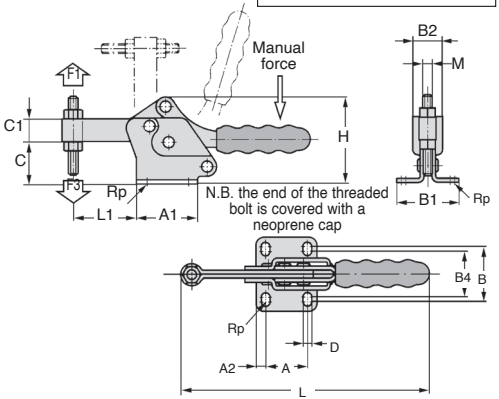
Secures by direct pressure

- *Materials:*
  Body: zinc plated steel
  Fastening pin and nuts: phosphated steel
  Handle: Oil resistant plastic
- *With fixing base and adjustable fastening pin*



Options

- *Mounting bracket (please ask us)*



DISCOUNTS

Qty.	1+	6+	15+	20+
Disc.	List	-5%	-10%	On request

Part number	Opening angle of securing arm Pos. 1	Opening angle of handle Pos. 1	Manual force (N)	Manual force F1(N)	Securing force F3(N)
SLH-0075	90°	75°	80	750	320
SLH-0150	90°	80°	140	1500	650

Part number	A	A1	A2	B	B1	B2	B4	C	C1	D	H	L	L1	M	Stock*	Price each 1 to 5
SLH-0075	13,5	25	5,7	16,8	27	16	-	19	9,5	5,2	38	108	24,5	M5x35	✔	26,30 €
SLH-0150	26,0	38	6,0	28,0	40	20	22	25	14,0	5,5	53	155	38,0	M6x50	✔	31,01 €

**Depending on availability - Dimensions in mm*

- **2 materials to choose from**
- Materials:
  SCH body: zinc plated steel
  SCH/SS body: stainless steel 18.9 (303)
  Handle: Oil-resistant plastic
- Supplied with anchoring base

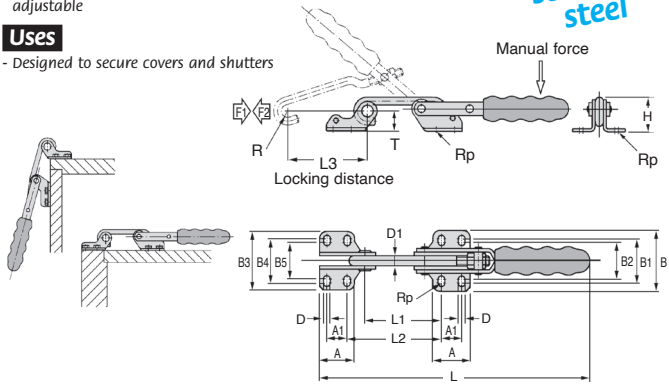


Advantages

- Distance of hook from toggle clamp easily adjustable

Uses

- Designed to secure covers and shutters



DISCOUNTS

Qty	1+	6+	15+	20+
Disc.	List	-5%	-10%	On request

Size	Traction force F1 (N)	Pressure F2 (N)	Manual force (N)	Handle opening angle	L	L1	L2	Locking distance L3	A	A1
SCH-01	1500	2000	100	155°	161	45	58	70	26	13
SCH-02	3000	4000	160	155°	248	68	84	90	35	19
SCH-04	4000	7000	200	155°	310	84	104	115	51	32

Part number Steel	Part number Stainless steel	B	B1	B2	B3	B4	B5	D	D1	H	R	T	Stock* Steel	Stock* StS	Price each 1 to 5 Steel	Price each 1 to 5 StS
SCH-0130	SCH-0130SS	39	27,0	22,2	43	31	26	5,2	6	26	6	13,5	✔	✔	56,66 €	66,07 €
SCH-0270	SCH-0270SS	52	36,0	29,0	57	41	34	6,5	8	35	7	20,0	✔	✔	83,73 €	99,85 €
SCH-0430	SCH-0430SS	72	52,5	43,5	78	59	50	8,5	12	49	10	27,0	-	-	106,05 €	208,47 €

*Depending on availability - Dimensions in mm

Vertical stirrup toggle clamp

SEV

Hook fastening

- ***2 materials to choose from***
- *Materials:*
  SEV *body: zinc plated steel*
  SEV/SS *body: stainless steel 18.9 (303)*
  Handle: Oil-resistant plastic
- *Supplied with anchoring base*

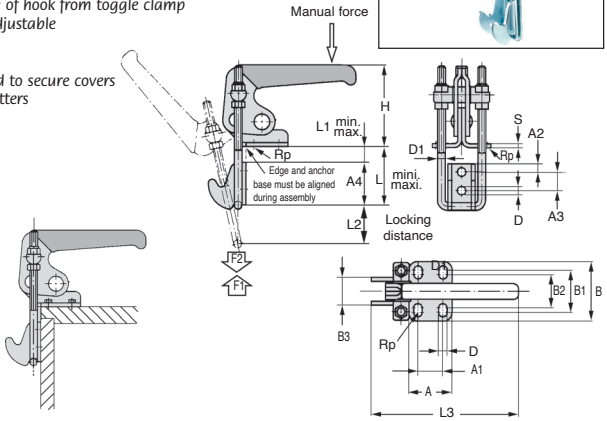


Advantages

- *Distance of hook from toggle clamp easily adjustable*

Uses

- *Designed to secure covers and shutters*



DISCOUNTS

Qty	1+	6+	15+	20+
Disc.	List	-5%	-10%	On request

Size	Traction force F1(N)	Pressure F2(N)	Manual force (N)	Opening angle of handle	Adjustable distance L Min.	L Max.	L1 Min.	L1 Max.	Locking distance L2	L3
SEV-01	1800	2000	100	145°	25	49	1	25	22	76
SEV-02	2700	4000	150	145°	33	60	1	28	34	115
SEV-04	4500	7000	200	145°	41	80	1	40	45	152

Part number Steel	Part number Stainless steel	A	A1	A2	A3	A4	B	B1	B2	B3	D	D1	H	S	Price each 1 to 5 Steel	Price each 1 to 5 StS
SEV-0140	SEV-0140SS	26	13	4,5	11	24	36	24	19	16	5,2	4	42	2,5	52,74 €	68,27 €
SEV-0250	SEV-0250SS	35	19	6,0	14	32	48	33	26	21	6,5	6	64	3,0	77,93 €	96,04 €
SEV-0450	SEV-0450SS	51	32	8,0	19	40	64	45	36	28	8,5	8	85	4,0	130,58 €	182,27 €

Dimensions in mm

Hook fastening

SEH



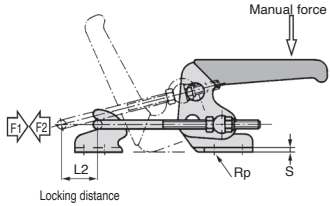
- ***2 materials to choose from***
- *Materials:*
  SEH *body: zinc plated steel*
  SEH/SS *body: stainless steel 18.9 (303)*
  Handle: Oil-resistant plastic
- *Supplied with anchoring base*

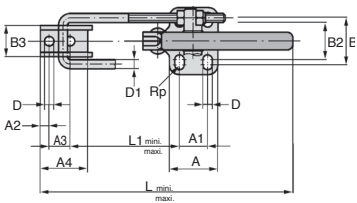
Advantages

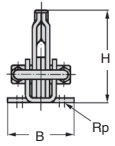
- *Distance of hook from toggle clamp easily adjustable*

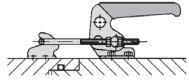
Uses

- *Designed to secure covers and shutters*









DISCOUNTS

Qty.	1+	6+	15+	20+
Disc.	List	-5%	-10%	On request

Size	Traction force F1(N)	Pressure F2(N)	Manual force (N)	Opening angle	B	B1	B2	H	Adjustable distance L min.	L max.	L1 min.	L1 max.	Locking distance L2
SEH-01	1800	2000	100	120°	36	24	19	42	105	135	38	68	16
SEH-02	2700	4000	150	120°	48	33	26	64	145	185	45	85	24
SEH-04	4500	7000	200	120°	64	45	36	85	190	250	65	120	32

Part number Steel	Part number Stainless steel	A	A1	A2	A3	A4	B3	D	D1	S	Price each 1 to 5 Steel	Price each 1 to 5 StS
SEH-0140	SEH-0140SS	26	13	4,5	11,0	23	16	5,2	4	2,5	52,74 €	59,73 €
SEH-0250	SEH-0250SS	35	19	6,0	14,0	32	21	6,5	6	3,0	77,93 €	89,47 €
SEH-0450	SEH-0450SS	51	32	8,0	19,0	40	28	8,5	8	4,0	130,58 €	181,97 €

Dimensions in mm

Horizontal toggle clamp

SLHH LOK — With locking mechanism

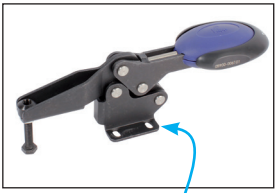
High quality swivel bush with horizontal foot and adjustable spindle

Constant level of force during both opening and closing

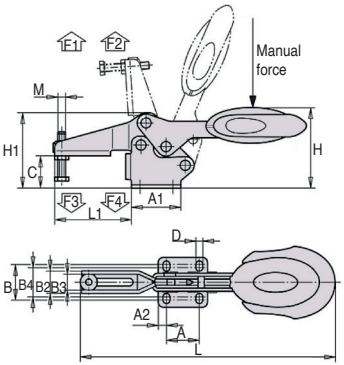
Increased stability thanks to U-shaped clamping arm

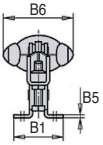
Fitted with automatic locking mechanism

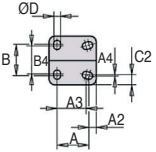
- *Materials :*
  - *Nitro carburised steel with blackened finish*
  - *Polyamide handle*
  - *Locking mechanism TPE*



Horizontal base







Hole positions

DISCOUNTS

Qty	1+	6+	15+	20+
Disc.	List	-5%	-10%	On request

Part number	Opening angle Holding arm	Handle	Manual force N	Holding force F1 (N)	Holding force F2 (N)	Clamping force F3 (N)	Clamping force F4 (N)	H	H1	L	L1
SLHH-6/LOK	87°	68°	160	1350	1900	720	1200	63,3	59,5	193,3	60,5
SLHH-8/LOK	86°	66°	200	2000	2800	830	1400	73,9	70	230,3	74,9
SLHH-10/LOK	90°	71°	250	2200	4500	1200	2800	94,8	87,9	286	103,9
SLHH-12/LOK	88°	68°	280	2400	5500	1000	2800	104,9	101,6	321,3	122

Part number	M	A	A1	A2	A3	A4	B	B1	B2	B3	B4	B5	B6	C	C2	ØD	Price each 1 to 5
SLHH-6/LOK	M6x35	26	39	6,5	-	-	28	39	17,5	12,4	24,6	53,4	53,4	25,5	-	5,5	72,60 €
SLHH-8/LOK	M8x45	26	44	9	-	-	31	45	21	15,7	26,1	51,1	51,1	32,2	-	6,2	73,90 €
SLHH-10/LOK	M10x55	41,5	59	9	-	-	43	59	26	18,7	39	56,5	56,5	40	-	8,8	99,13 €
SLHH-12/LOK	M12x70	44	65	10	40	1	42	67	28	20,9	40	56,5	56,5	52,3	13,5	8,5	103,39 €

Dimensions in mm

Horizontal toggle clamp

With locking mechanism — SLHV LOK

High quality swivel bush with horizontal foot and adjustable spindle

Constant level of force during both opening and closing

Increased stability thanks to U-shaped clamping arm

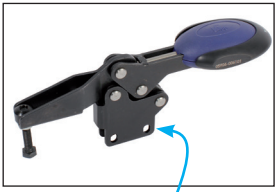
Fitted with automatic locking mechanism

-Material :

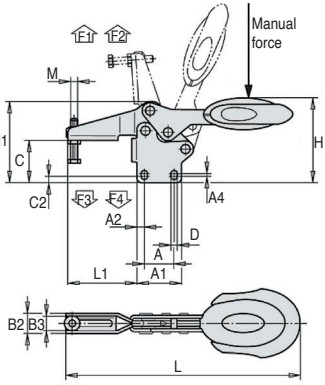
Nitro carburised steel with blackened finish

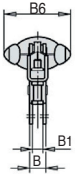
Polyamide handle

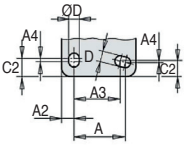
Locking mechanism TPE



Vertical base







Hole positions

DISCOUNTS

Qty	1+	6+	15+	20+
Disc.	List	-5%	-10%	On request

Part number	Opening angle Holding arm	Handle	Manual force N	Holding force F1 (N)	Holding force F2 (N)	Clamping force F3 (N)	Clamping force F4 (N)	H	H1	L	L1
SLHV-6/LOK	87°	68°	160	1350	1900	720	1200	74,3	71	193,7	60,5
SLHV-8/LOK	86°	66°	200	2000	2800	830	1400	88,3	84,4	230,3	74,9
SLHV-10/LOK	90°	71°	250	2200	4500	1200	2800	114,4	107,5	286,4	103,9
SLHV-12/LOK	88°	68°	280	2400	5500	1000	2800	128,5	125,2	321,3	122

Part number	M	A	A1	A2	A3	A4	B	B1	B2	B3	B6	C	C2	ØD	Price each 1 to 5
SLHV-6/LOK	M6x35	26	39	6,5	-	2,5	14,1	9,1	17,5	12,4	53,4	37	5,5	5,5	72,60 €
SLHV-8/LOK	M8x45	26	44	9	-	3,5	14,1	9,1	21	15,7	51,1	46,5	7	6,2	73,90 €
SLHV-10/LOK	M10x55	41,5	59	9	-	2	16,2	9,2	26	18,7	56,5	59,6	8	8,8	99,13 €
SLHV-12/LOK	M12x70	44	65	10	40	1	16,2	9,2	28	20,9	56,5	75,9	13,5	8,5	103,39 €

Dimensions in mm

Vertical toggle clamp

SLVH LOK — With locking mechanism

High quality swivel bush with vertical foot and adjustable spindle

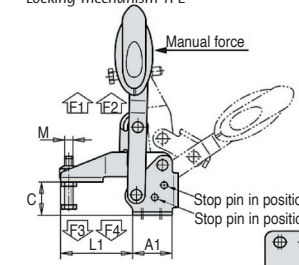
Constant level of force during both opening and closing

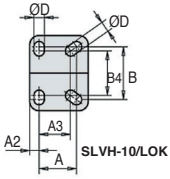
Increased stability thatks to U-shaped clamping arm

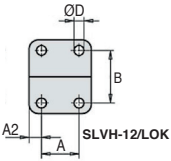
Fitted with automatic locking mechanism

- *Material :*
  - *Nitro carburised steel with blackened finish*
  - *Polyamide handle*
  - *Locking mechanism TPE*









DISCOUNTS

Qty	1+	6+	15+	20+
Disc.	List	-5%	-10%	On request

Part number	Opening angle (holding arm) Pos. 1	Pos. 2	Stop pin removed	Opening angle (Handle) Pos. 1	Pos. 2	Stop pin removed	Manual force (N)	Holding force F1 (H)	F2 (H)	Clamping force F3 (H)	F4 (H)
SLVH-6/LOK	56°	83°	156°	46°	56°	84°	160	1350	1650	920	1050
SLVH-8/LOK	13°	93°	157°	26°	61°	86°	190	2000	2800	940	1350
SLVH-10/LOK	6°	97°	175°	19°	59°	91°	250	2500	4500	1500	2800
SLVH-12/LOK	11°	88°	163°	24°	60°	91°	280	3000	5500	1400	2800

Part number	M	A	A1	A2	A3	B	B1	B2	B3	B4	B6	C	ØD	H	L	L1	Price each 1 to 5
SLVH-6/LOK	M6x35	14	29	7	12	27	38	17,5	12,4	-	53,4	24,7	5,5	162,9	86,5	53	70,38 €
SLVH-8/LOK	M8x45	21	39	9	19	32	45	20,6	15,5	-	51,1	32,7	6,8	191,4	107	62	73,44 €
SLVH-10/LOK	M10x55	32	50	8	27	45	64	25,5	18,4	38	56,5	38,7	9	230,5	153	95	100,63 €
SLVH-12/LOK	M12x70	32	53	10,5	-	45	63	28	20,9	-	56,5	46,7	8,8	249,1	173,5	113,5	104,03 €

Dimensions in mm

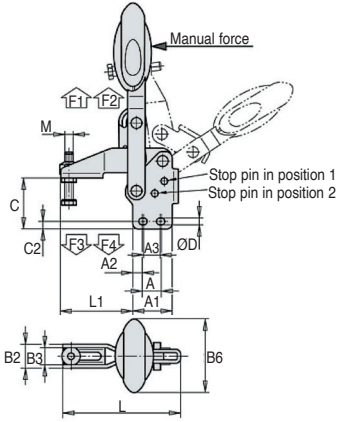
Vertical toggle clamp

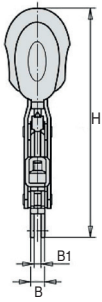
With locking mechanism — SLVV LOK

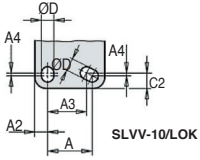
High quality swivel bush with vertical foot and adjustable spindle

Constant level of force during both opening and closing
Increased stability thanks to U-shaped clamping arm
Fitted with automatic locking mechanism
- *Material :*
  Nitro carburised steel with blackened finish
  Polyamide handle
  Locking mechanism TPE

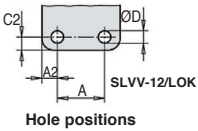








Hole positions



Hole positions

DISCOUNTS

Qty	1+	6+	15+	20+
Disc.	List	-5%	-10%	On request

Part number	Opening angle (Holding arm) Pos. 1	Pos. 2	Stop pin removed	Opening angle (Handle) Pos. 1	Pos. 2	Manual force (N)	Holding force F1 (N)	F2 (N)	Clamping force F3 (N)	F4 (N)
SLVV-6/LOK	56°	83°	156°	46°	56°	160	1350	1650	920	1050
SLVV-8/LOK	13°	93°	157°	26°	61°	190	2000	2800	940	1350
SLVV-10/LOK	6°	97°	175°	19°	59°	250	2500	4500	1500	2800
SLVV-12/LOK	11°	88°	163°	24°	60°	280	3000	5500	1400	2800

Part number	M	A	A1	A2	A3	A4	B	B1	B2	B3	B6	C	C2	ØD	H	L	L1	Price each 1 to 5
SLVV-6/LOK	M6x35	14	29	7	12	-	10,2	5,2	17,5	12,4	53,4	37,6	5,5	5,5	175,7	86,5	53	70,38 €
SLVV-8/LOK	M8x45	21	39	9	19	-	10,2	5,2	20,6	15,5	51,1	49	6,5	6,8	207,6	107	62	73,44 €
SLVV-10/LOK	M10x55	32	50	8	27	3,5	14,1	7,1	25,5	18,4	56,5	62,3	13	9	254	153	95	100,63 €
SLVV-12/LOK	M12x70	32	53	10,5	-	-	14,1	7,1	28	20,9	56,5	69,8	9	8,8	271,9	173,5	113,5	104,03 €

Dimensions in mm

Nut for toggle clamps

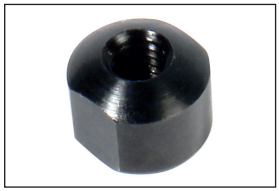
SLH-M

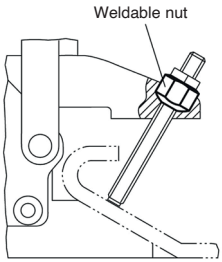
Round ended nut

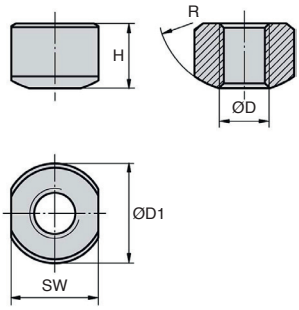
- **Nut for toggle clamps**
- Material : steel
- Finish : oxidised

Advantage

- Nut can be welded







DISCOUNTS

Qty	1+	6+	15+	20+
Disc.	List	-5%	-10%	On request

Part number	ØD	H	ØD1	SW	R	Price each 1 to 5
SLH-M4	M4	5,2	8	7	7	3,36 €
SLH-M5	M5	6,7	10	9	9	3,55 €
SLH-M6	M6	9,5	13,5	12,2	10	3,89 €
SLH-M8	M8	12,8	18	15,3	12	4,44 €
SLH-M10	M10	12,1	20	18,2	14	4,74 €
SLH-M12	M12	14,8	23	20	16	5,14 €

Dimensions in mm

Durable and reliable: *More reliable, more user-friendly and safer. These clamps are quick to use, reliable and accurate. The use of high quality materials ensures a long working life.*

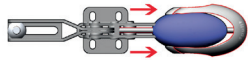
Advantages

- ***Extrememly tough :*** *All models will withstand 300,000 clamping cycles without problems*
- ***Durable:*** *high quality scratch resistant hinge pin*
- ***Extremely robust :*** *tCorrosion-resistant NITROX coating*
- ***Easy to use:*** *The fixed headed nut facilitates spindle adjustment*
- ***Reliable:*** *Constant level of force during both opening and closing*
- ***Ideal where space is restricted:*** *The slim design allows sufficient space for safe operation*
- ***Robust by design:*** *Thanks to use of U-shaped conical clamping arm*
- ***Safe to use:*** *No sharp edges prevent risk of anything getting trapped*
- ***Quick to put into operation:*** *Can be easily modified thanks to a wide range of accessories*
- ***Ergonomic design:*** *Easy to operate whilst wearing work gloves*
- ***Reflection free finish:*** *Suitable for use around lasers*
- ***Risk free use:*** *With increased space between clamping arm and handle avoids risks of squashing*
- ***Extremely adaptable:*** *Rectangular mounting holes allows installation on existing fixing points*
- ***Efficient clamping and locking:*** *The integrated design avoids any risks of squashing. Easy to use even whilst wearing gloves.*

Locking mechanism - Principal of operation:



1. Locked in closed position. Redesigned handle ensures safe operation as the smooth contours avoid any risk of anything being trapped.



2. Inner locking mechanism with automatic safety catch. The lock is released by pulling the handle.



3. Locked in open position. Releasing the handle engages the locking mechanism.



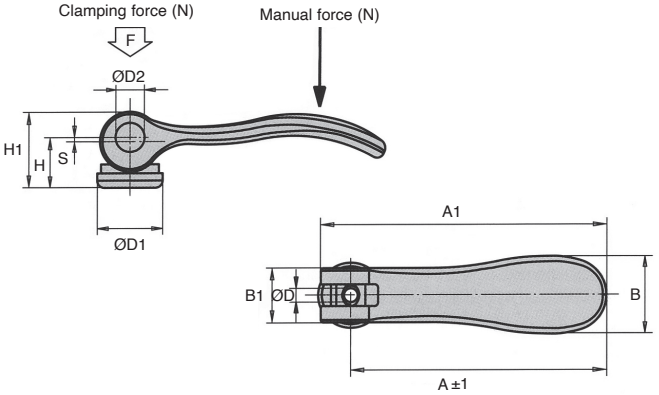
Stainless steel cam lever

LACMss

With threaded hole

- ***Manual locking element***
- *Materials*
  Handle: stainless steel 304 electrolytically polished
  Thrust washer high performance carbon-fibre reinforced thermoplastic
  Pin threaded stud and washer: polished stainless steel 303





DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	Thread ØD	ØD1	ØD2	B	B1	H	H1	A	A1	Clamping force F (kN)	Manual force N	Stroke S	Stock*	Price each 1 to 5
LAC-M5/SS	M5	18	9	21,5	15	14,7	22,2	70,4	79,2	4	120	1,2	✔	32,05 €
LAC-M6/SS	M6	18	9	33,3	15	14,7	28,8	70,4	79,2	4	120	1,2	✔	32,05 €
LAC-M8/SS	M8	27	11	33,3	24	18,3	28,8	96,0	108,0	8	350	1,5	✔	44,51 €

**Depending on availability - Dimensions in mm*

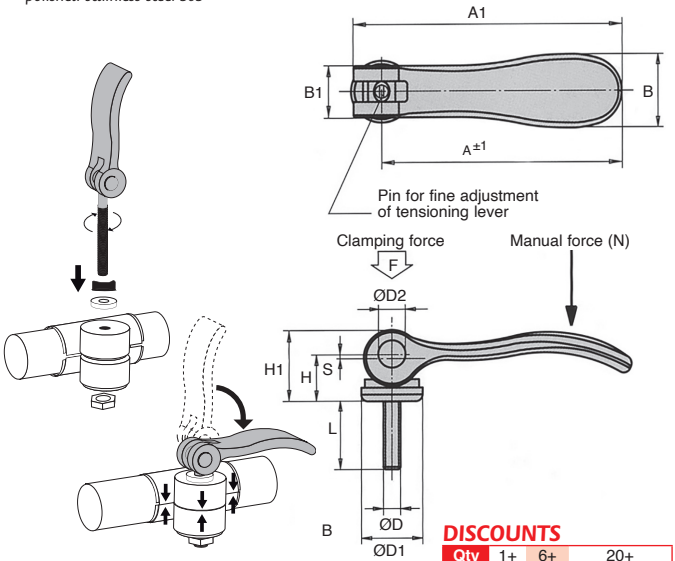
Stock Adjustable stainless steel cam lever

With male thread

LACTss

- ***Manual locking element***
- *Quick fixing*
- *Materials*
  Handle: stainless steel 304 electrolytically polished
  Thrust washer high performance carbon-fibre reinforced thermoplastic
  Pin threaded stud and washer: polished stainless steel 303





DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	Thread Ø D	Ø D1	Ø D2	B	B1	H	H1	A	A1	Clamping force F (kN)	Manual force N	Stroke S	L	Stock*	Price each 1 to 5
LAC-T5/SS	M5	16	9	21,5	15	14,7	22,2	70,4	79,2	4	120	1,2	40	✔	37,50 €
LAC-T6/SS	M6	16	9	21,5	15	14,7	22,2	70,4	79,2	4	120	1,2	40	✔	37,50 €
LAC-T8/SS	M8	25	11	33,3	24	18,3	28,8	96,0	108,0	8	350	1,5	50	✔	50,63 €
LAC-T10/SS	M10	25	11	33,3	24	18,3	28,8	96,0	108,0	8	350	1,5	50	✔	50,63 €

**Depending on availability - Dimensions in mm*

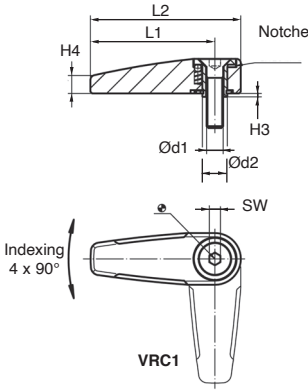
Retaining catch, single sided

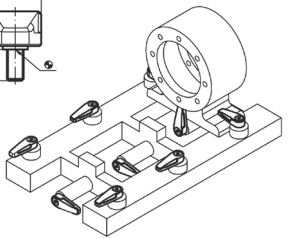
VRC1 — Indexed 4 x 90°

Adjustable retaining catch

- *To be used for door locking, drawers and as handling aid.*
- *Material :*
  Body :
  Die cast zinc, black similar to RAL 9005
  Die cast zinc, silver similar to RAL 9006
  Internal pieces : Sintered metal
  Screw : A2 stainless steel (ISO 10642)







Typical application

IN STOCK*
Otherwise contact us

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	Colour	Ød1	Ød2	L1	L2	B	H1	H2	H3	H4	SW	Weight (g)	Price each 1 to 5
VRC1-M6/A	Silver	M6	9	45	55	19,0	12	13,3	0,8	6,5	4	59	30,05 €
VRC1-M8/A	Silver	M8	14	65	78	25,2	14	15,8	0,8	9,0	5	136	37,59 €
VRC1-M6/N	Black	M6	9	45	55	19,0	12	13,3	0,8	6,5	4	59	30,05 €
VRC1-M8/N	Black	M8	14	65	78	25,2	14	15,8	0,8	9,0	5	136	37,59 €

**Depending on availability - Dimensions in mm*

Retaining catch, dual sided

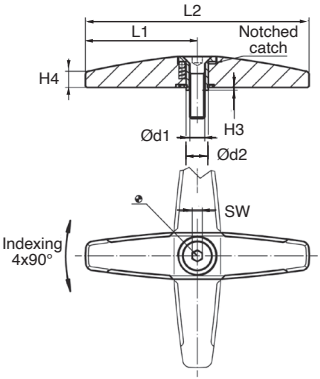
Indexed 4 x 90°

VRC2

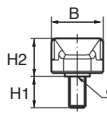
Adjustable retaining catch

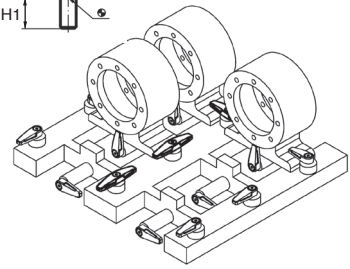
- *To be used for door locking, drawers and as handling aid.*
- *Material :*
  Body :
  Die cast zinc, black similar to RAL 9005
  Die cast zinc, silver similar to RAL 9006
  Internal pieces : Sintered metal
  Screw : A2 stainless steel (ISO 10642)





VRC2





Typical application

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	Colour	Ød1	Ød2	L1	L2	B	H1	H2	H3	H4	SW	Weight (g)	Price each 1 to 5
VRC2-M6/A	Silver	M6	9	45	90	19,0	12	13,3	0,8	6,5	4	93	33,62 €
VRC2-M8/A	Silver	M8	14	65	130	25,2	14	15,8	0,8	9,0	5	220	43,50 €
VRC2-M6/N	Black	M6	9	45	90	19,0	12	13,3	0,8	6,5	4	93	33,62 €
VRC2-M8/N	Black	M8	14	65	130	25,2	14	15,8	0,8	9,0	5	220	43,50 €

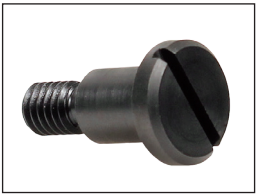
Dimensions in mm

Slotted flat headed shoulder screw DIN 923

HAS

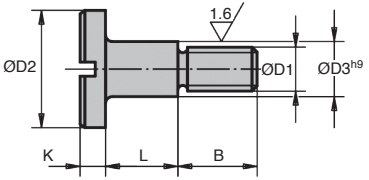
Steel

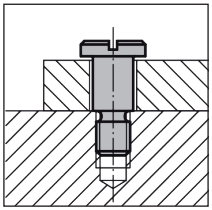
- **Fixes to a frame and allows rotation around the shoulder**
- Conforms to DIN 923
- Material:
  Burnished steel, resistance class 5.8



Accessory

- Used with **HAR** captive C washer
  (tome 1 p.214)





DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	ØD1	ØD2	ØD3	L	B	K	Weight (g)	For captive washer	Stock*	Price each 1 to 5
HAS6-8-10	M6	13	8,9	10 +0,07/+0,15	9	3,1	9	HAR9	✔	2,73 €
HAS8-10-12	M8	16	10,9	12 +0,1/+0,2	11	3,8	17	HAR11	✔	3,09 €
HAS10-13-16	M10	20	13,0	16 +0,1/+0,2	13,5	4,6	33	-	-	4,14 €

*Depending on availability - Dimensions in mm

Captive C washer DIN 6371

Steel

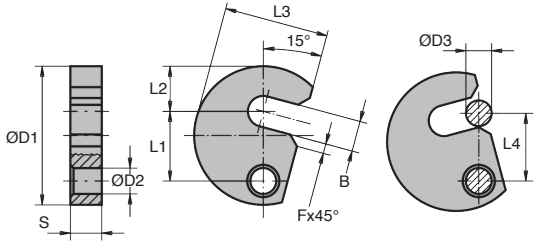
HAR

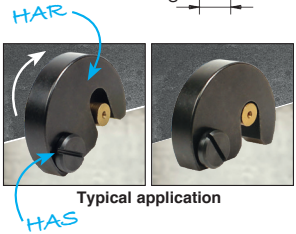
- **Allows a shaft to be held with simple pivoting action**
- Conforms to DIN 6371
- Material:
  Burnished steel



Accessory

- Used with **HAS** shoulder screw (acc DIN 923) **(tome 1 p.215)**





Typical application

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	B	ØD1	ØD2	ØD3	F	L1	L2	L3	L4	S	Weight (g)	Stock*	Price each 1 to 5
HAR9-38	7,5	38	9	6	3	19,6	11	29	19	9,8	0,061	✔	27,33 €
HAR9-43	9,5	43	9	8	3	21,6	14	32,5	21	9,8	0,076	-	28,67 €
HAR9-48	11,5	48	9	10	3	23,6	17	36,5	23	9,8	0,09	✔	32,17 €
HAR11-61	13,5	61	11	12	3	29,6	22	45	29	11,8	0,18	✔	40,23 €
HAR11-65	15,5	65	11	14	3	31,6	23	49	31	11,8	0,2	-	43,15 €
HAR11-68	17,5	68	11	16	3	33,6	25	50	33	11,8	0,21	-	45,58 €
HAR11-74	21,5	74	11	20	4	36,6	28	55	36	11,8	0,23	-	58,19 €

*Depending on availability - Dimensions in mm

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Adjustable screw stop

Steel

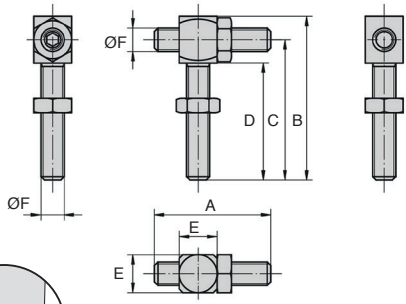
BVR

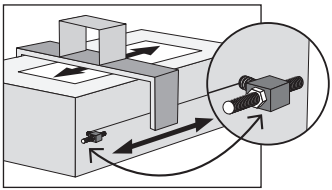
- **Allows to easily create a stop that is adjustable over a 50mm range**
- *Material:*
  Burnished treated steel



Application

- *Can be adjusted over the full range*
- *Final position is locked using a counter-nut.*





Travel stop

DISCOUNTS

Qty	1+	6+	15+	20+
Disc.	List	-5%	-10%	On request

Part number	A	B	C	D	E	ØF	Price each 1 to 5
BVR6-30-30	30	44	37	30	10	M6	23,06 €
BVR8-40-40	40	56	48	40	13	M8	29,97 €
BVR10-50-50	50	70	60	50	17	M10	35,14 €
BVR12-60-60	60	84	72	60	19	M12	45,55 €
BVR16-80-80	80	112	96	80	24	M16	69,69 €

Dimensions in mm

LOCK PIN FOR CLAMPING



p.221

MOUNTING SLEEVE



p 223

QUARTER-TURN CLAMP LOCK



p.224

LOCKING PIN FOR BUSHES



p.228

PIN FOR MAGNETIC BUSH



p.231

SLIDING LOCK ADJUSTMENT SYSTEM



p.232

LOCKING SYSTEMS AND MAGNETS

P. 220-248

SLIDING LOCK ADJUSTMENT SYSTEM



p.233

MAGNETIC SCREW



p.240

MAGNETIC STUD



p.242

Lock pin for clamping

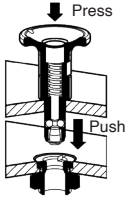
GAR

Introduction

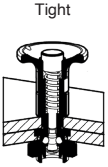
*The **locking pins** are ergonomic items designed for the quick clamping of 2 plates. The system can be used for tool changing devices in the assembly area or for other manual movements, such as conversion to automatic installations. The **GAR-BAB** are lock pins based on the principle of a ball lock pin, offering excellent grip and easy handling. The **GAR-QT** are based on a quarter turn lock, with an On/Off indication. Although the model **GAR-DLL** can be used without the mounting sleeves, they still allow optimum use of the lock pins.*



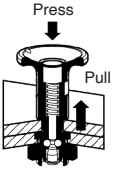




Button pressed, insert the locking pin into the fixing sleeve

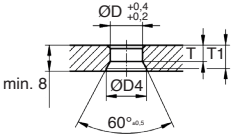


Release the button to clamp the plates



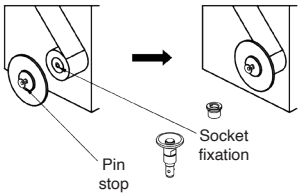
To remove, button pressed, pull the locking pin out of the fixing sleeve.

Use without fixing sleeve
Counterpart mounting dimensions



For locking pins ØD=	ØD	ØD4 min.	T	T1
6	6	12,5	4,9	~6,6
10	10	8	5	~7,2

Example of use
Quick mounting and removal of folded edge plates for paper rolls..



Lock pin for clamping

Ball lock pin type — GARBAB

- ***Ball lock pins for clamping***
- *Locking element*
- *Materials :*
  Body and button, nickel-plated steel .
  Spring, balls and retaining ring in stainless stell
  O-ring FKM
- *Working temperature: max 180°C*



Advantages

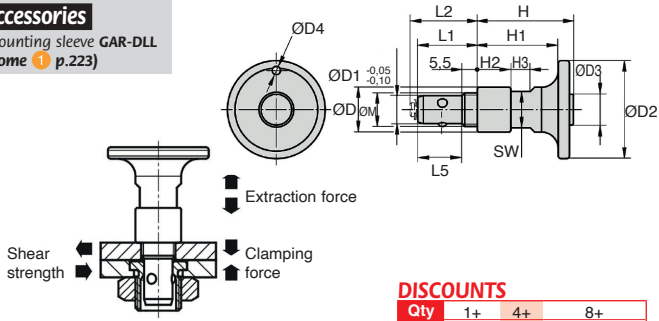
- *Allows tool-free locking or unlocking and without screws by simple pressing.*
- *Saves time by avoiding the handling of tools.*

Infos

- *The specified forces apply only for use with the* ***GAR-DLL*** *sleeves.*

Accessories

- *Mounting sleeve* ***GAR-DLL*** ***(tome 1 p.223)***



DISCOUNTS

Qty	1+	4+	8+
Disc.	Price	-5%	On request

Part number	ØD	ØD1	ØD2	ØD3	ØD4	ØM	L1	L2	L5	H	H1
GAR6-10/BAB	12	6	25	8	-	M8	19.0	21	13.5	22.2	18
GAR10-16/BAB	16	10	35	11	3	M12x1.5	21.5	23.5	16.0	34.4	29

Part number	H2	H3	SW	ØD5	ØD6	Tmax	Clamping force (N)	Shear strength (kN)	Extraction force (kN)	Price per unit 1 to 3
GAR6-10/BAB	6	5.5	10	80	13	10	30	3	0.5	53,81 €
GAR10-16/BAB	12	7.0	13	12	17	16	50	9	1.5	55,32 €

Dimensions in mm

Quarter turn type lock pin

GARQT — For clamping

- ***Quarter turn pin for clamping***
- *Locking element*
- *Materials :*
  Nickel-plated steel body.
  Spring and balls in stainless stell
  Button in black PA polyamide (glass-fibre reinforced)
- *Working temperature: max 130°C*



Advantages

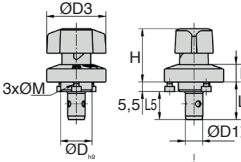
- *Allows to change and lock quickly without tools and without screws in 1/4 turn.*
- *On/Off display of the lock.*
- *Saves time by avoiding the handling of tools.*

Infos

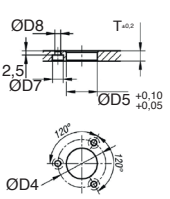
- *Screws M2 or M3 are supplied*
- *The specified forces apply only for use with the* **GAR-DLL** *sleeves.*

Accessories

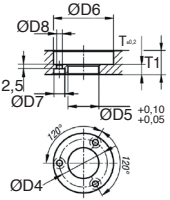
- *Mounting sleeve* **GAR-DLL** **(tome 1 p.223)**



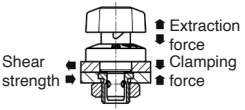




Mounting form A:
for 6mm to 12 mm plates



Mounting form B:
for plates up to 20mm



DISCOUNTS

Qty	1+	4+	8+
Disc.	Price	-5%	On request

Part number	ØD	ØD1	ØD2	ØD3	ØD4	H	H1	L2	L5	ØM
GAR6-14/QT	14	6	25	25	21	24.5	6.5	19.5	14	M2x3
GAR10-16/QT	18	10	34	34	28	31	10	21.5	16	M3x4
GAR10-22/QT	18	10	34	34	28	31	10	27.5	22	M3x4

Part number	ØD5	ØD6	ØD7	ØD8	T	T1	Clamping force (N)	Shear strength (kN)	Extraction force (kN)	Price per unit 1 to 3
GAR6-14/QT	14	26	4.4	2.4	6	6-10	30	3	0.5	61,48 €
GAR10-16/QT	18	35	6.5	3.4	6	6-14	50	9	1.5	64,59 €
GAR10-22/QT	18	35	6.5	3.4	12	12-20	50	9	1.5	64,59 €

Dimensions in mm

Mounting sleeve for lock pin

Makes it easy to hold the lock pins GARDLL

- **Sleeve for locking pin GAR**
- Surface mounted or flush mounted in a counter-bored hole
- Materials:
  Nickel-plated steel
  Stainless steel

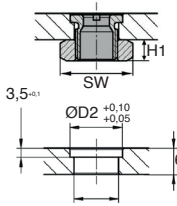


Advantages

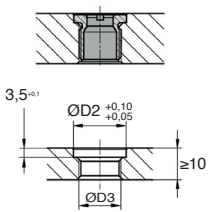
- Allows optimum retention of the locking pins **GAR**.

Accessories

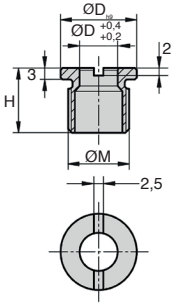
- Quarter-turn lock pins **GAR-QT (tome 1 p.222)** and the lock pins **GAR-BAB (tome 1 p.221)**



Mounting form A
for plates with a 10 mm thickness



Mounting form B
for plates thicker than 10mm or in a blind hole



DISCOUNTS

Qty	1+	4+	8+
Disc.	Price	-5%	On request

Part number	ØD	ØD1	ØM	H	ØD2	ØD3	H1	SW	Price per unit 1 to 3
Steel									
GAR6-DLL	6	16	M12x1.5	15	16	13	-	-	8,46 €
GAR10-DLL	10	20	M16x1.5	17	20	17	-	-	9,40 €
DLL-M12-EC	Nut for GAR6-DLL						6	19	0,59 €
DLL-M16-EC	Nut for GAR10-DLL						8	24	0,78 €
Stainless steel									
GAR6-DLL/SS	6	16	M12x1.5	15	16	13			12,28 €
GAR10-DLL/SS	10	20	M16x1.5	17	20	17			15,35 €
DLL-M12-EC/SS	Nut for GAR6-DLL/SS						6	19	0,65 €
DLL-M16-EC/SS	Nut for GAR10-DLL/SS						8	24	1,10 €
Assembly tools									
DLL-M16-TOOL	Tools for GAR6-DLL and GAR10-DLL								23,48 €

Dimensions in mm

Quarter-turn clamp lock

VQT Plastic or stainless steel button

- ***Quarter-tour lock with handle***
- *Locking element*
- *Materials:*
  Nickel-plated steel body
  Steel pins
  Button in black glass fiber reinforced PA or stainless steel
- *Working T°*
  Plastic button +130°C max.
  Stainless steel button +200°C max.



Advantages

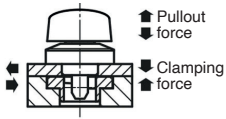
- *Allows locking or unlocking without tools and without quarter-tour screws.*
- *Lock On/Off display.*
- *Saves time by avoiding the handling of tools.*

Infos

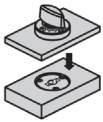
- *The M2 or M3 fixing screws are supplied*
- *Mounting option A for 6mm to 12 mm plates.*
- *Mounting option B for 12 to 20mm plates.*
- *The specified forces apply only for use with the* ***VQT PLQ*** *sleeves.*

Accessories

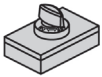
- *Clamping plates* **VQT-PLQ** ***(tome 1 p.226-227)***



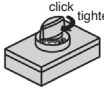
Use



Make sure the handle is in the “OFF” position.



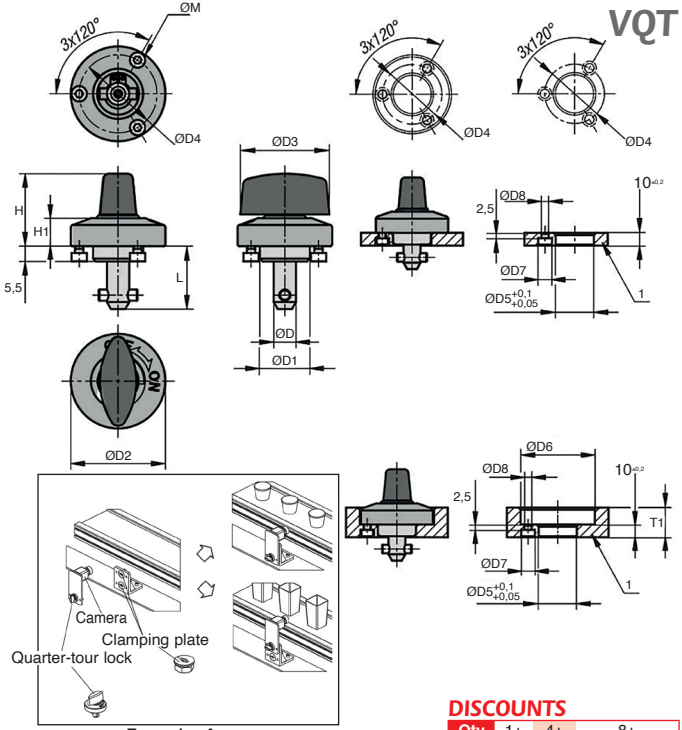
Press the pin of the quarter-turn lock into the clamping plate.



To lock the components, turn the handle to the “ON” position. A click indicates the opening/closing

Part number	Clamping force (N)	Resistance shearing (kN)	Pullout force (kN)	H	H1	ØM
Plastic button						
VQT5-15/PA	60	1,8	1,2	19,0	6,5	M2x3
VQT8-17/PA	90	3,2	2,6	26,0	10,0	M3x4
VQT8-23/PA	90	3,2	2,6	26,0	10,0	M3x4
Stainless steel button						
VQT5-15/SS	60	1,8	1,2	19,0	6,5	M2x3
VQT8-17/SS	90	3,2	2,6	25,5	10,0	M3x4
VQT8-23/SS	90	3,2	2,6	25,5	10,0	M3x4

Dimensions in mm



Example of use:
change the positions of the camera

DISCOUNTS

Qty	1+	4+	8+
Disc.	List	-5%	On request

Part number	ØD	L	ØD1	ØD2	ØD3	ØD4	ØD5	ØD6	ØD7	ØD8	T	T1	Price each 1 to 3
Plastic button													
VQT5-15/PA	5	15,5	14	25	20	21	14	26	4,4	2,4	6	6-10	53,82 €
VQT8-17/PA	8	17,0	18	34	32	28	18	35	6,5	3,4	6	6-14	55,33 €
VQT8-23/PA	8	23,0	18	34	32	28	18	35	6,5	3,4	12	12-20	55,33 €
Stainless steel button													
VQT5-15/SS	5	15,5	14	25	20	21	14	26	4,4	2,4	6	6-10	67,63 €
VQT8-17/SS	8	17,0	18	34	32	28	18	35	6,5	3,4	6	6-14	70,72 €
VQT8-23/SS	8	23,0	18	34	32	28	18	35	6,5	3,4	12	12-20	70,72 €

Dimensions in mm

Quarter-turn clamp lock - Clamping plate

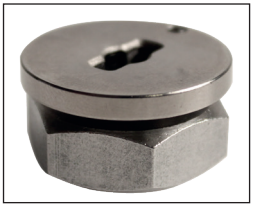
VQTPLQ/P

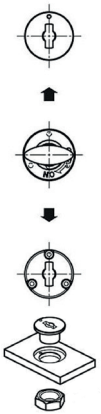
Wall mounting

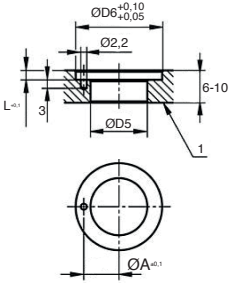
- ***Clamping plate for VQT quarter-turn lock***
- *Mounting for plate thickness 6 to 10mm.*
- *Materials:*
  Nickel-plated steel body
  Stainless steel nut

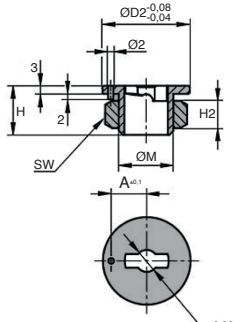
Accessories

- ***VQT** quarter-tour lock*
  (tome 1 p.224)









Surface-mounted clamping plate for 6 to 10mm plates.

DISCOUNTS

Qty	1+	4+	8+
Disc.	List	-5%	On request

Part number	ØD	ØD2	ØD4	A	M	H2	SW
VQT5-PLQ/P	5	25	21	10,5	M14X1,5	8	22
VQT8-PLQ/P	8	32	26	13,0	M20X1,5	10	30

Part number	H	H1	ØD5	ØD6	L	Price each 1 to 3
VQT5-PLQ/P	16	4,5	15	25	3,5	26,02 €
VQT8-PLQ/P	18	5,5	21	32	3,5	26,75 €

Dimensions in mm

Quarter-turn clamp lock - Clamping plate

Flush mounting

VQTPLQ/N

- ***Clamping plate for VQT quarter-turn lock***
- *Mounting for plate thickness over 10mm.*
- *Materials:*
  Nickel-plated steel body

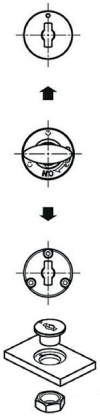


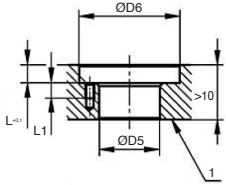
Infos

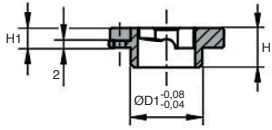
- *The M2 or M3 fixing screws are supplied*

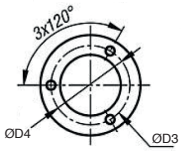
Accessories

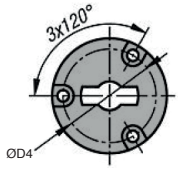
- **VQT** *quarter-tour lock*
  (tome 1 p.224)











Surface-mounted clamping plate ≥10mm plates.

DISCOUNTS

Qty	1+	4+	8+
Disc.	List	-5%	On request

Part number	ØD	ØD1	ØD2	ØD4	H2	SW
VQT5-PLQ/N	5	14	25	21	8	22
VQT8-PLQ/N	8	20	32	26	10	30

Part number	H	H1	ØD3 for screw DIN912	ØD5	ØD6	L	L1	Price each 1 to 3
VQT5-PLQ/N	9	4,5	M2	14	26	5	4	24,13 €
VQT8-PLQ/N	11	5,5	M3	20	33	6	5	25,63 €

Dimensions in mm

Locking pin for bushes

BFD — Fast and light spring locking

- ***Holding and centering pin***
- *Locking element*
- *Materials:*
  Natural finish steel
- *Temperature range: +180°C*

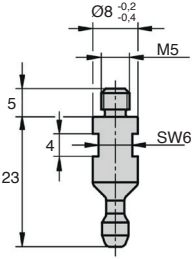
Info

- *Repeatability +/-0.25mm*

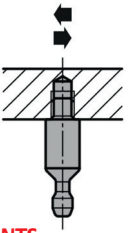
Accessory

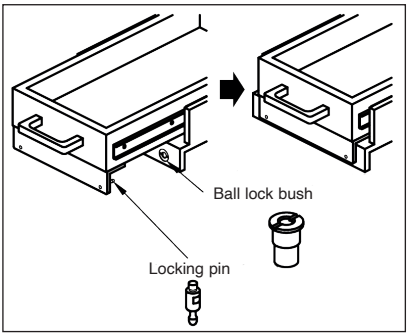
- *Mounting pin* **BFD8-DLL**
  (tome 1 p.229)





Shear strength





Example of use :
Attachment of a sliding unit

DISCOUNTS

Qty	1+	4+	8+
Disc.	Price	-5%	On request

Part number	Shear strength (kN)	Price each 1 to 3
BFD8-23	1.8	5,29 €

Dimensions in mm

- **Locking element to be associated with the BFD locking pin.**
- The 3 balls inside the bush hold the locking pin with the specified retaining force.
- Materials:
  - Housing and locking element nickel-plated steel
  - Ball: hardened stainless steel
  - Spring: stainless steel
- Working temperature: up to 180 °C

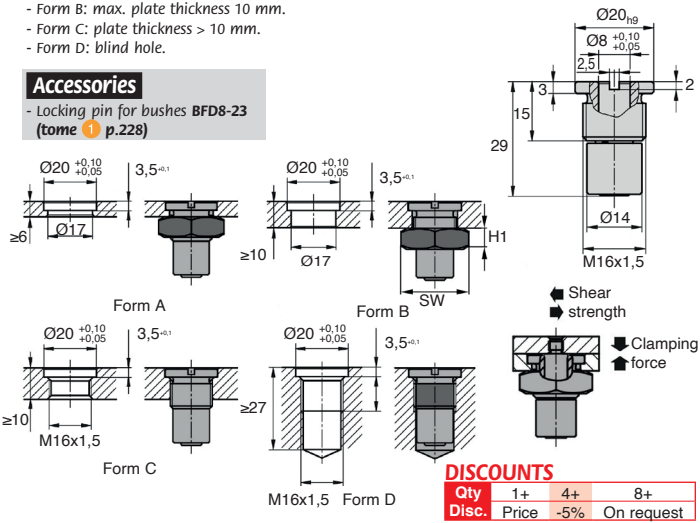


Assembly

- Form A: min. plate thickness 6 mm.
- Form B: max. plate thickness 10 mm.
- Form C: plate thickness > 10 mm.
- Form D: blind hole.

Accessories

- Locking pin for bushes **BFD8-23** **(tome 1 p.228)**



DISCOUNTS

Qty	1+	4+	8+
Disc.	Price	-5%	On request

Part number	Clamping force (N)	Shearing force (kN)	H1	SW	Price each 1 to 3
BFD8-7/DLL	7	1.8	-	-	33,85 €
BFD8-15/DLL	15	1.8	-	-	33,85 €
DLL-M16-EC	Nut for BFD8		8	24	0,78 €
DLL-M16-TOOL	Assembly tool				23,48 €

Dimensions in mm

Pin for magnetic bush

BDM Fast and light magnetic locking

- **Pin for magnetic bush**
- Fastening element used to hold panels or thin plates. The pin is held in the bush housing by a magnet.
- Materials:
  Natural finish steel

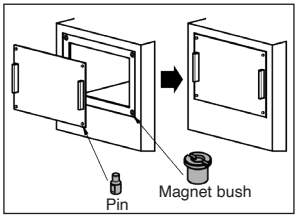


Info

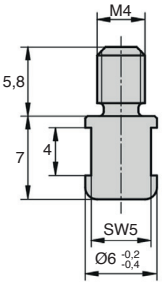
- The pin is attracted to the magnetic bush **BDM6-7/DLL**.
- Mounting option with nut (not included) or by screwing directly into the workpiece.

Accessory

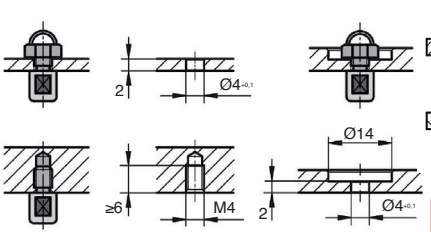
- Mounting pin **BDM6-7/DLL** *(tome 1 p.231)*



Typical application:
Quick assembly or removal of valves



Recommended mounting tolerances:



DISCOUNTS

Qty	1+	4+	8+
Disc.	Price	-5%	On request

Part number	Shear force (kN)	Price each 1 to 3
BDM6-7	0.9	3,61 €

Dimensions in mm

Pin for magnetic bush

Fast and light magnetic locking BDM DLL

- ***Magnetic bush***
- ***The pin BDM6-7** is held in the bush housing by a magnet which holds it with the specified clamping force.*
- *Materials:*
  Body in stainless steel natural finish
  Neodymium magnet
- *Working temperature range: max 80°C*



Assembly

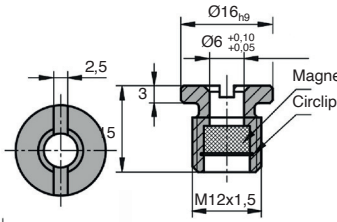
- *Form A: min. plate thickness 6 mm.*
- *Form B: max. plate thickness 10 mm.*
- *Form C: plate thickness > 10 mm.*
- *Form D: blind hole.*

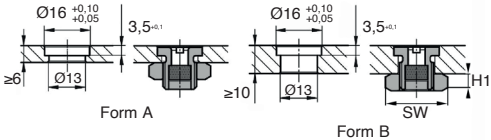
Info

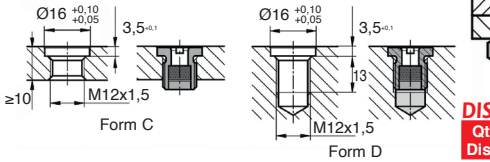
- *Repeatability +/-0.25m*

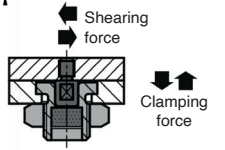
Accessory

- *Pin for magnetic bush* **BDM6-7**
  (tome** 1 **p.230)









DISCOUNTS

Qty	1+	4+	8+
Disc.	Price	-5%	On request

Part number	Clamping force (N)	Shearing force (kN)	H1	SW	Price each 1 to 3
BDM6-7/DLL	7	0.8	-	-	14,21 €
DLL-M12-EC/SS	Nut for BDM6-7/DLL		6	19	0,65 €
DLL-M16-TOOL	Assembly tools for BDM6-7/DLL				23,48 €

Dimensions in mm

Sliding lock adjustment system

VDS — Sliding lock for oblong hole

- ***Clamping lock for oblong hole***
- *Materials:*
  High pressure die-cast zinc body, chrome-plated Button in black or orange thermoplastic polyamide Stainless steel tightening pins and wedges POM plunger
- *Temperature of use: Max. 90°C*

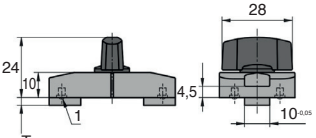


Advantages

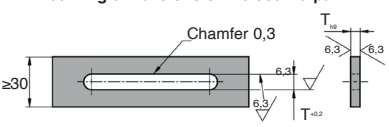
- *Allows locking or unlocking without tools and without screws by simply turning the button*
- *Saves time by avoiding the handling of tools.*

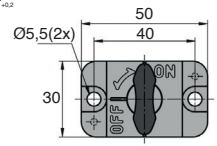
Accessories

- *Blocking wedge* ***VDS-CB*** *(tome 1 p.233)*

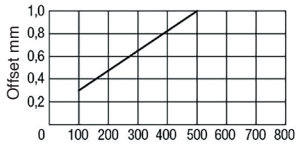


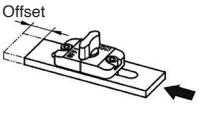
Mounting dimensions of the counterpart





Offset with static load in one direction





Forces apply to steel or stainless steel plates

DISCOUNTS

Qty	1+	4+	8+
Disc.	List	-5%	On request

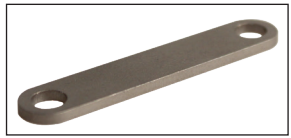
Part number	T1	T2	Holding force (N)		Price each 1 to 3
Black button					
VDS50-3/N	3	3	500	-	81,76 €
VDS50-6/N	6	6	500	-	81,76 €
Orange button					
VDS50-3/O	3	3	500	-	81,76 €
VDS50-6/O	6	6	500	-	81,76 €

**Depending on availability - Dimensions in mm*

Sliding lock adjustment system

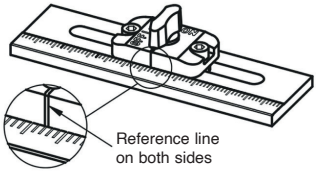
Blocking wedge for sliding lock for oblong hole VDSCB

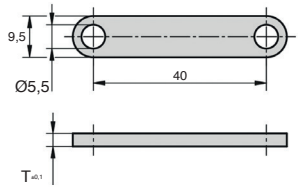
- **Blocking wedge necessary for sliding locks for oblong holes with plates thicker than 3mm or 6mm.**
- *Materials:*
  Stainless steel natural finish



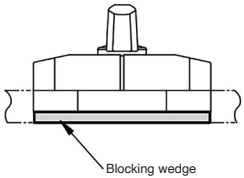
Accessories

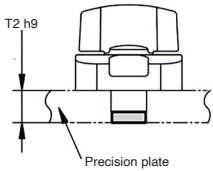
- *Sliding lock* ***VDS*** **(tome 1 p.232)**





Application example





Sliding lock for oblong hole	Suitable blocking wedge	Precision plate T2 (mm)
VDS50-3/N	-	$3_{-0,25}$
VDS50-3/O	VDS50-2/CB	$5_{-0,3}$
VDS50-6/N	-	$6_{-0,3}$
VDS50-6/O	VDS50-2/CB	$8_{-0,36}$
	VDS50-3/CB	$9_{-0,36}$

DISCOUNTS

Qty	1+	4+	8+
Disc.	List	-5%	On request

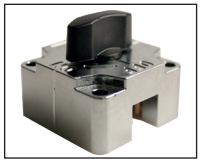
Part number	T	Price each 1 to 3
VDS50-2/CB	2	7,12 €
VDS50-3/CB	3	7,65 €

**Depending on availability - Dimensions in mm*

Sliding lock adjustment system

VDSQ Sliding lock for square profile

- ***Clamping lock for square profile***
- *Materials:*
  High pressure die-cast zinc body, chrome-plated
  Button in black or orange thermoplastic polyamide
  Stainless steel locking pins and wedges
  Phosphated bronze leaf spring
- *Temperature of use: Max. 90°C*



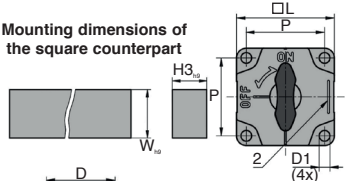
Advantages

- *Allows locking or unlocking without tools and without screws by simply turning the button*
- *Saves time by avoiding the handling of tools.*

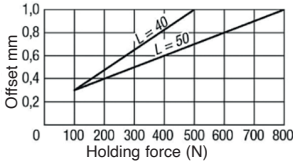
Accessories

- *Blocking wedge* ***VDSQ-CB (tome 1 p.235)***

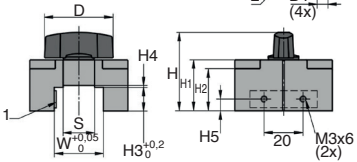
Mounting dimensions of the square counterpart



Offset with static load in one direction



Forces apply to steel or stainless steel square elements



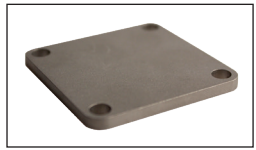
DISCOUNTS

Qty	1+	4+	8+
Disc.	List	-5%	On request

Part number	L	ØD	ØD1	H	H1	H2	H3	H4	H5	P	W	S	Holding force (N)	Price each 1 to 3
Black button														
VDSQ40-12-12/N	40	28	4,5	36	22	18,5	12	-	6,0	32	12	-	500	94,15 €
VDSQ40-16-16/N	40	28	4,5	40	26	22,5	16	-	8,0	32	16	-	500	94,15 €
VDSQ50-9-25/N	50	35	5,5	37	23	18,5	9	1	4,5	40	25	16	800	101,28 €
VDSQ50-12-25/N	50	35	5,5	40	26	21,5	12	1	6,0	40	25	16	800	101,28 €
VDSQ50-12-32/N	50	35	5,5	40	26	21,5	12	1	6,0	40	32	16	800	101,28 €
VDSQ50-16-32/N	50	35	5,5	44	30	25,5	16	1	8,0	40	32	16	800	101,28 €
Orange button														
VDSQ40-12-12/O	40	28	4,5	36	22	18,5	12	-	6,0	32	12	-	500	94,15 €
VDSQ40-16-16/O	40	28	4,5	40	26	22,5	16	-	8,0	32	16	-	500	94,15 €
VDSQ50-9-25/O	50	35	5,5	37	23	18,5	9	1	4,5	40	25	16	800	101,28 €
VDSQ50-12-25/O	50	35	5,5	40	26	21,5	12	1	6,0	40	25	16	800	101,28 €
VDSQ50-12-32/O	50	35	5,5	40	26	21,5	12	1	6,0	40	32	16	800	101,28 €
VDSQ50-16-32/O	50	35	5,5	44	30	25,5	16	1	8,0	40	32	16	800	101,28 €

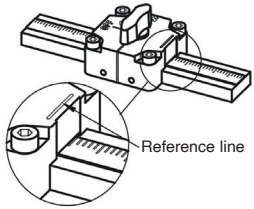
Dimensions in mm

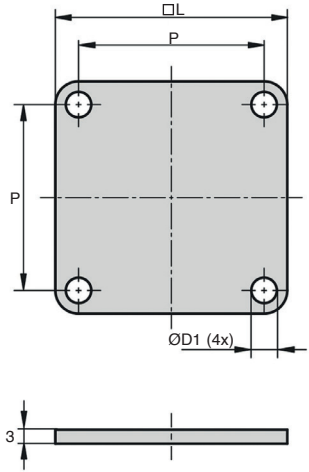
- **Blocking wedge**
- A locking wedge is required for clamp bolts for square profile with a 3mm thick plate.
- They are used to move the clamping lock on a fixed square.
- Materials:
  Stainless steel natural finish



Accessories

- Sliding clamping lock **VDSQ (tome 1 p.234)**





DISCOUNTS

Qty	1+	4+	8+
Disc.	List	-5%	on request

Part number	L	ØD1	P	Price each 1 to 3
VDSQ40-32/CB	40	4,5	32	10,10 €
VDSQ50-40/CB	50	5,5	40	11,89 €

Dimensions in mm

One-touch sliding locks

VDSQ

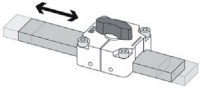
Principle

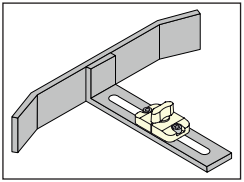
Locking system allowing a ruler to slide in relation to a lock.
By setting the knob to "ON", the clamping bolt is tightened.

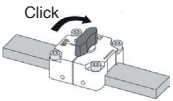
Operating principle :
Clamp locks can be used in two different operating modes :

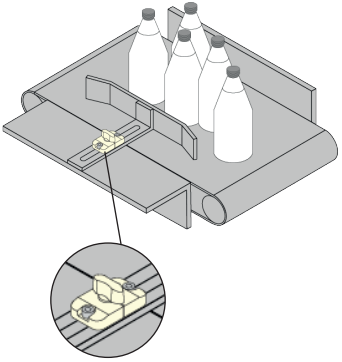
*- **Operating mode 1 :** The clamping bolt slides.*
It moves on a plate with an oblong hole or on a square profile.

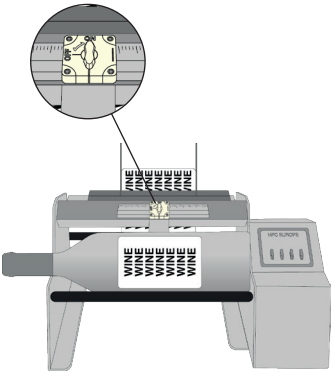
*- **Operating mode 2 :** The clamping bolt is fixed.*
If the clamping bolt is screwed (fixed) directly onto a plate, the square profile or plate can be slid.











VDS Adjustment of a bottleneck

VDSQ Print head adjustment

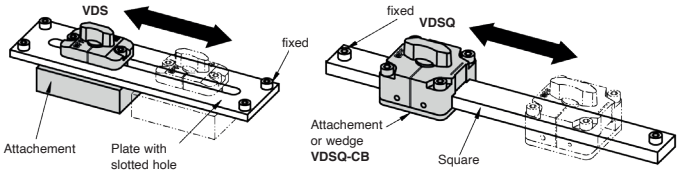
Example of application

Two versions of sliding locks are available:

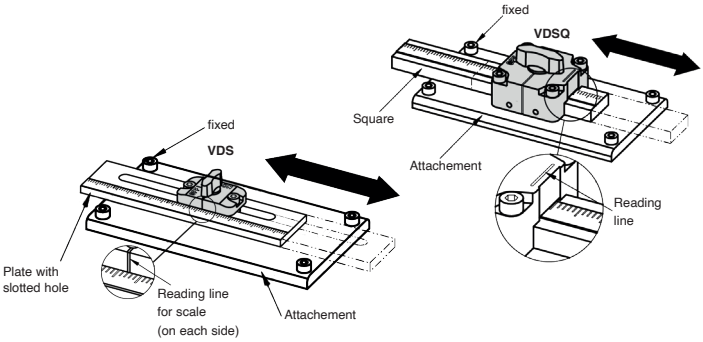
- ***Sliding locks for slotted holes** are pressed into a plate with a groove 10 mm wide, then secured with the locking wedge. During assembly of the element the knob must be set to "OFF". Sliding locks 3 or 6 mm thick are used for precision plates. For other thicknesses, the VDS-CB shims should be used.*

- ***Sliding locks for square profile** are placed on a 12mm to 32mm wide ruler. A 3mm thick VDSQ-CB blocking shim can be used to prevent the rule from disengaging.*

Sliding lock with movable clamping elements - Plates fixed by oblong or square hole



Movable plates with slotted or square hole - Sliding lock fixed with locking elements

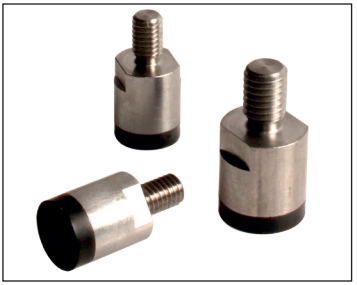


VDS example of application **VDSQ example of application**

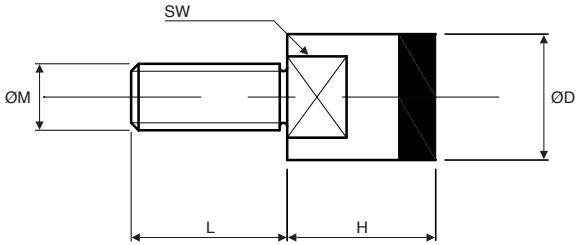
Magnetic head screw

VTAP — With rubber coating

- ***Magnetic screw with rubber coating***
- *With magnet incorporated in the screw head*
- *According to DIN EN ISO 4017-8,8*
- *Temperature of use: Max. 80°C*
- *Materials:*
  Zinc-plated steel body
  NdFeB Magnet







DISCOUNTS

Qty	1+	5+	20+	40+	60+
Disc.	List	-15%	-20%	-30%	On request

Part number	ØM	ØD	L	H	SW	F (N)	Weight (g)	Price each 1 to 4
VTAP6-13	M6	13	10	16	11	15	13	17,48 €
VTAP8-16	M8	16	12	18	13	23	23	20,97 €
VTAP10-20	M10	20	14	20	17	46	44	25,80 €

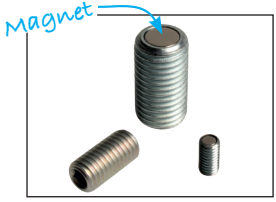
Tolerances +/-0.2mm - Dimensions in mm

Magnetic screw with socket

Steel

HCA

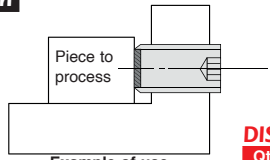
- ***Magnetic screw with socket hexagonal head***
- *With magnet incorporated at the end of the screw.*
- *According to DIN EN ISO 4017-8,8*
- *Temperature of use: Max. 80°C*
- *Materials:*
  Zinc-plated steel body
  NdFeB Magnet



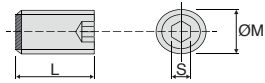
Application

- *Sensor counter*
- *Fixtures*





Example of use: Fixtures



DISCOUNTS

Qty	1+	5+	20+	40+	60+
Disc.	List	-15%	-20%	-30%	On request

Part number	ØM	L	S	F (N)	Weight (g)	Price each 1 to 4
HCA6-12	M6	12	3	2,5	2	6,87 €
HCA6-16	M6	16	3	2,5	3	6,94 €
HCA6-20	M6	20	3	2,5	4	7,01 €
HCA6-25	M6	25	3	2,5	5	7,15 €
HCA6-30	M6	30	3	2,5	6	7,22 €
HCA8-16	M8	16	4	7,0	6	7,15 €
HCA8-20	M8	20	4	7,0	8	7,29 €
HCA8-25	M8	25	4	7,0	10	7,37 €
HCA8-30	M8	30	4	7,0	11	7,52 €
HCA8-40	M8	40	4	7,0	15	7,90 €
HCA10-20	M10	20	5	11,0	12	7,68 €
HCA10-25	M10	25	5	11,0	15	7,90 €
HCA10-30	M10	30	5	11,0	18	8,01 €
HCA10-40	M10	40	5	11,0	24	8,36 €
HCA10-50	M10	50	5	11,0	30	8,82 €
HCA12-25	M12	25	6	17,0	21	8,51 €
HCA12-30	M12	30	6	17,0	25	8,75 €
HCA12-40	M12	40	6	17,0	34	9,25 €
HCA12-50	M12	50	6	17,0	43	9,74 €
HCA12-60	M12	60	6	17,0	52	10,24 €
HCA16-30	M16	30	8	35,0	45	11,24 €
HCA16-40	M16	40	8	35,0	60	14,52 €
HCA16-50	M16	50	8	35,0	76	12,59 €
HCA16-60	M16	60	8	35,0	92	13,26 €
HCA16-80	M16	80	8	35,0	123	14,61 €

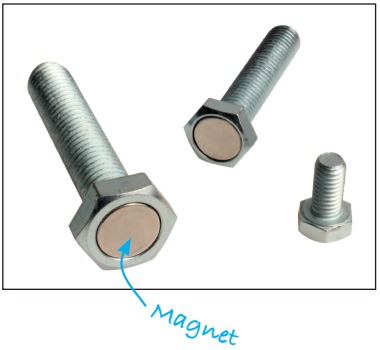
Dimensions in mm

Magnetic screw with hexagonal head

VTHA

Steel

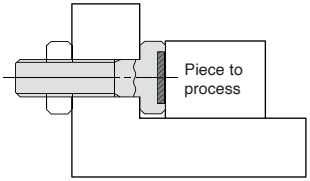
- ***Magnetic screw with hexagonal head***
- *With magnet incorporated in the screw head*
- *According to DIN EN ISO 4017-8,8*
- *Temperature of use: Max. 80°C*
- *Materials:*
  Zinc-plated steel body
  NdFeB Magnet



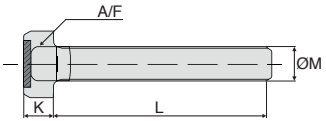
Application

- *Sensor counter*
- *Fixtures*





Example of use:
Fixtures



DISCOUNTS

Qty	1+	5+	20+	40+	60+
Disc.	List	-15%	-20%	-30%	On request

Part number	ØM	L	K	A/F	F (N)	Weight (g)	Price each 1 to 4
VTHA6-12	M6	12	4,3	10	25	6	7,75 €
VTHA6-16	M6	16	4,3	10	25	6	7,82 €
VTHA6-20	M6	20	4,3	10	25	7	7,90 €
VTHA6-25	M6	25	4,3	10	25	8	8,01 €
VTHA6-30	M6	30	4,3	10	25	10	8,08 €

Dimensions in mm

DISCOUNTS

Qty	1+	5+	20+	40+	60+
Disc.	List	-15%	-20%	-30%	On request

Part number	ØM	L	K	A/F	F (N)	Weight (g)	Price each 1 to 4
VTHA8-16	M8	16	4,3	13	50	11	8,44 €
VTHA8-20	M8	20	4,3	13	50	12	8,60 €
VTHA8-25	M8	25	4,3	13	50	15	8,68 €
VTHA8-30	M8	30	4,3	13	50	17	8,82 €
VTHA8-40	M8	40	4,3	13	50	21	9,18 €
VTHA10-20	M10	20	6,3	17	75	24	9,95 €
VTHA10-25	M10	25	6,3	17	75	27	10,10 €
VTHA10-30	M10	30	6,3	17	75	31	10,24 €
VTHA10-40	M10	40	6,3	17	75	37	10,68 €
VTHA10-50	M10	50	6,3	17	75	43	11,03 €
VTHA12-25	M12	25	7,5	19	110	40	11,60 €
VTHA12-30	M12	30	7,5	19	110	45	11,83 €
VTHA12-40	M12	40	7,5	19	110	54	11,97 €
VTHA12-50	M12	50	7,5	19	110	62	12,44 €
VTHA12-60	M12	60	7,5	19	110	71	12,96 €
VTHA16-30	M16	30	10,0	24	145	86	14,18 €
VTHA16-40	M16	40	10,0	24	145	100	14,92 €
VTHA16-50	M16	50	10,0	24	145	117	14,92 €
VTHA16-60	M16	60	10,0	24	145	133	16,27 €
VTHA16-80	M16	80	10,0	24	145	165	17,62 €

Dimensions in mm

Magnetic stud with threaded hole

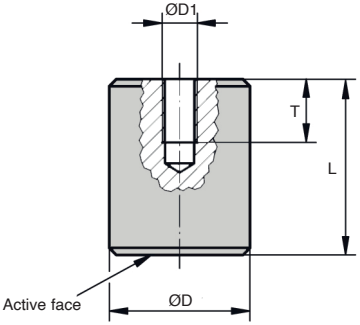
PLM

AlNiCo

- ***Solid magnet reinforced steel housing***
- *Shielded system*
- *These magnetic studs can be used for holding, lifting or assembly of components*
- *Max working temp +450°C*
- ***Material, finish:***
  Steel body, red lacquered finish
  Magnetic core AlNiCo







DISCOUNTS

Qty	1+	6+	20+	40+	60+
Disc.	List	-15%	-20%	-30%	On request

Part number	ØD	ØD1	L	T	Attraction force (N)	Weight (g)	Stock*	Price each 1 to 5
PLM17-16/A	17	M6	16	4	18	26	✔	9,09 €
PLM21-19/A	21	M6	19	5	28	50	✔	9,66 €
PLM27-25/A	27	M6	25	6	65	110	✔	14,60 €
PLM35-30/A	35	M6	30	9	115	215	✔	26,49 €
PLM65-43/A	65	M12	43	13	400	1080	-	108,52 €

**Depending on availability - Dimensions in mm*

Magnetic stud with central hole

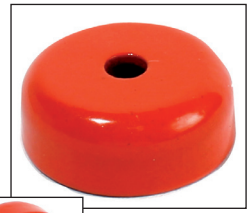
AlNico

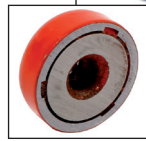
VAP

- **AlNiCo magnets with central through drilled mounting hole**
- Both faces are machine finished and have a strong attraction force in a reduced size
- Working temperature -50°C to +450°C
- Good shock resistance

For recessed mounting, following precautions should be observed

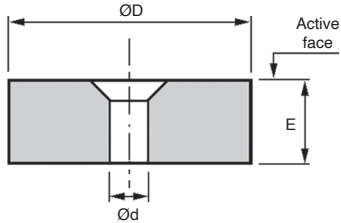
- in a non-ferrous support: none specified
- in a ferrous support: magnet should be isolated from the support by an air gap or non-ferrous material





Applications

- Suitable for fixing or positioning of components in reduced spaces and possibly subject to high temperatures
- Positioning of inserts in moulding machines...



DISCOUNTS

Qty	1+	6+	20+	40+	60+
Disc.	List	-15%	-20%	-30%	On request

Part number	ØD	Ød	E	F (daN)	Weight (g)	Stock*	Price each 1 to 5
VAP19-8	19	3,5	8,0	3,0	18	✔	8,77 €
VAP28-9	29	5,0	9,0	5,0	46	✔	13,07 €
VAP38-11	38	5,0	10,5	9,5	97	-	19,35 €

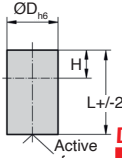
**Depending on availability - Dimensions in mm*

Cylindrical holding magnets

Stock

PLM — AlNiCo, calibrated external diameter

- ***Cylindrical gripping magnet***
- *Shielded system*
- *Can be fixed using a press, shrink fitting or adhesive*
- *Dimension "H" can be reduced without affecting adhesive force*
- *Max working temp : 450°C*
- ***Material, finish***
  Galvanised steel body, Magnetic core AlNiCo





DISCOUNTS

Qty	1+	6+	20+	40+	60+
Disc.	List	-15%	-20%	-30%	On request

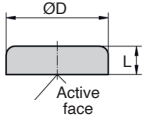
Part number	ØD	L	H	Attraction force (N)	Weight (g)	Stock*	Price each. 1 to 5
PLM6-10/C	6	10	2	1,5	2	✔	6,52 €
PLM8-12/C	8	12	3	3,5	4	✔	7,07 €
PLM10-16/C	10	16	6	7,0	9	-	7,55 €
PLM13-18/C	13	18	7	10,0	17	-	8,57 €
PLM16-20/C	16	20	5	18,0	29	-	10,89 €
PLM20-25/C	20	25	6	42,0	57	-	14,27 €
PLM25-30/C	25	30	5	96,0	110	-	25,12 €
PLM32-35/C	32	35	3	180,0	200	-	42,03 €
PLM40-45/C	40	45	5	240,0	420	-	94,39 €
PLM50-50/C	50	50	2	420,0	720	-	183,85 €

Flat gripping magnet

Stock

PLM — Hard ferrite core

- ***Flat magnet with no threaded core***
- *Shielded system*
- *These holding magnets can be force fitted or glued into positioning holes*
- *Max working temp : +200°C*
- ***Material, finish :***
  Galvanised steel body, Hard ferrite magnetic core





DISCOUNTS

Qty	1+	6+	20+	40+	60+
Disc.	List	-15%	-20%	-30%	On request

Part number	ØD	L	Attraction force (N)	Weight (g)	Stock*	Price each. 1 to 5
PLM10-4/P	10$^{+0,15}$	4,5	4	2,0	✔	2,88 €
PLM13-4/P	13$^{+0,15}$	4,5	10	3,0	✔	3,16 €
PLM16-4/P	16$^{+0,15}$	4,5	18	4,5	-	3,80 €
PLM20-6/P	20$^{+0,15}$	6,0	30	10,0	✔	4,57 €
PLM25-7/P	25$^{+0,15}$	7,0	40	19,0	-	5,06 €
PLM32-7/P	32$^{+0,20}$	7,0	80	30,0	✔	5,48 €
PLM40-8/P	40$^{+0,20}$	8,0	125	55,0	-	7,41 €
PLM50-10/P	50$^{+0,20}$	10,0	220	100,0	-	9,38 €
PLM63-14/P	63$^{+0,20}$	14,0	350	230,0	-	16,43 €

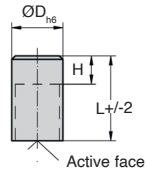
**Depending on availability - Dimensions in mm*

Cylindrical magnet

SmCo

PLM

- ***Smooth finish, shielded system***
- *Do not press fit directly into an iron support as a magnetic short circuit will reduce the adhesive force*
- *Suitable for use in spot welding machines.*
- *Dimension "H" can be reduced with no loss of adhesive force*
- *Max working temp : +200°C*
- ***Material, finish***
  Galvanised steel body,
  Magnetic core SmCo





DISCOUNTS

Qty	1+	6+	20+	40+	60+
Disc.	List	-15%	-20%	-30%	On request

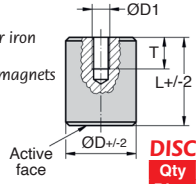
Part number	ØD	L	H	Attraction force (N)	Separation from iron support	Weight (g)	Stock*	Price each 1 to 5
PLM6-20/SC	6	20	10,0	8	1,5	4,5	✔	7,93 €
PLM8-20/SC	8	20	10,0	22	1,5	8,0	-	9,97 €
PLM10-20/SC	10	20	8,0	40	2,0	12,0	✔	12,23 €
PLM13-20/SC	13	20	6,0	60	2,5	20,0	-	16,27 €
PLM16-20/SC	16	20	2,0	125	3,0	30,0	-	22,11 €
PLM20-25/SC	20	25	5,0	250	4,0	60,0	-	35,38 €
PLM25-35/SC	25	35	7,0	400	5,0	134,0	-	79,71 €
PLM32-40/SC	32	40	4,5	600	6,0	251,0	-	145,41 €

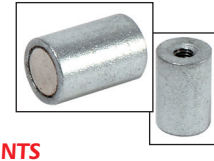
Threaded cylindrical magnet

NdFeB

PLM

- ***Shielded system***
- *Suitable for mounting in steel or iron supports*
- *Can also be used as blind-hole magnets*
- *Max working temp : +80°C*
- ***Material, finish***
  Galvanised steel body,
  Magnetic core NeFeB





DISCOUNTS

Qty	1+	6+	20+	40+	60+
Disc.	List	-15%	-20%	-30%	On request

Part number	ØD	ØD1	L	T	Attraction force (N)	Weight (g)	Stock*	Price each. 1 to 5
PLM8-12/N	8	M3	12	5	12	7	✔	9,00 €
PLM10-16/N	10	M4	16	7	24	8	✔	10,31 €
PLM13-18/N	13	M4	18	7	60	18	✔	11,80 €
PLM16-20/N	16	M4	20	7	90	30	✔	12,53 €
PLM20-25/N	20	M5	25	9	135	60	-	21,70 €
PLM25-30/N	25	M6	30	9	190	110	-	46,30 €
PLM35-40/N	35	M8	40	13	300	290	-	80,15 €

**Depending on availability - Dimensions in mm*

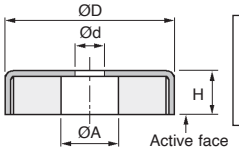
Magnetic stud with central hole

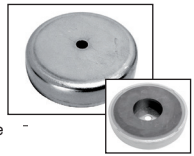
Stock

PLC

Ferrite

- ***Cup mounted Ferrite magnet with smooth bored hole***
- *Working temperature: -50°C to +100°C*
- *Good corrosion resistance*
- *Good mechanical resistance*





Uses

- *Mounting of objects where space is limited or mounting notice boards, protective covers etc*
- *Positioning of stops or inserts used in moulding machines*

DISCOUNTS

Qty	1+	6+	20+	40+	60+
Disc.	List	-15%	-20%	-30%	On request

Part number	ØD	H	Ød	ØA	F (daN)	Weight (g)	Stock*	Price each 1 to 5
PLC50-10	50	10	8,5	22,0	18	85	✔	11,30 €
PLC63-14	63	14	6,5	24,0	29	197	✔	20,15 €
PLC80-18	80	18	6,5	11,5	54	458	✔	39,10 €

**Depending on availability - Dimensions in mm*

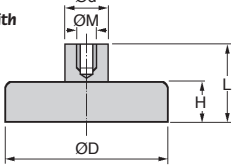
Magnetic stud with threaded hole

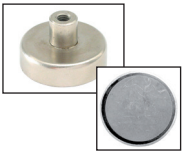
Stock

PLT

Ferrite

- ***Cup mounted Ferrite magnet with smooth bored hole***
- *Working temp.: -50°C to +100°C*
- *Good corrosion resistance*
- *Good mechanical resistance*





Uses

- *Mounting of protective casings, machine tools, cable supports*
- *Positioning of stops and inserts*
- *Holding components on inaccessible places or for transport*

DISCOUNTS

Qty	1+	6+	20+	40+	60+
Disc.	List	-15%	-20%	-30%	On request

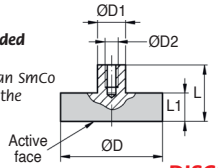
Part number	ØD	L	H	Ød	ØM	F (daN)	Weight (g)	Stock*	Price each 1 to 5
PLT25-15	25	15	7	8	M4	4,0	22	✔	6,72 €
PLT32-15	32	15	7	8	M4	8,0	32	✔	7,62 €
PLT40-18	40	18	8	10	M5	12,5	60	✔	10,21 €
PLT50-22	50	22	10	12	M6	22,0	110	✔	12,34 €
PLT63-30	63	30	14	15	M8	35,0	240	✔	23,12 €
PLT80-34	80	34	18	20	M10	60,0	520	✔	40,99 €
PLT100-42	100	42	22	22	M12	90,0	940	-	94,97 €

**Depending on availability - Dimensions in mm*

Flat magnet with threaded hole

SmCo — PLM

- ***Flat gripping magnet, shielded case***
- *Flat gripping magnets with an SmCo core have three to five times the adhesive force of AlNiCo or hard ferrite magnets*
- *Max working temp +200°C*
- ***Material, finish***
  Galvanised steel body, Magnetic core SmCo





DISCOUNTS

Qty	1+	6+	20+	40+	60+
Disc.	List	-15%	-20%	-30%	On request

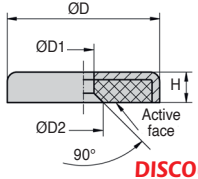
Part number	ØD	ØD1	ØD2	L	L1	Attraction force (N)	Stock*	Price each 1 to 5
PLM6-4-M3/SC	6±0,15	6	M3	11,5	4,5	5	✔	6,33 €
PLM8-4-M3/SC	8±0,15	6	M3	11,5	4,5	11	-	7,29 €
PLM10-4-M3/SC	10±0,15	6	M3	11,5	4,5	20	✔	10,21 €
PLM13-4-M3/SC	13±0,15	6	M3	11,5	4,5	40	-	12,08 €
PLM16-4-M4/SC	16±0,15	8	M4	11,5	4,5	60	-	15,59 €
PLM20-6-M4/SC	20±0,15	8	M4	13,0	6,0	90	✔	25,12 €
PLM25-7-M4/SC	25±0,15	8	M4	14,0	7,0	150	✔	38,26 €
PLM32-7-M5/SC	32±0,20	10	M5	15,5	7,0	220	-	55,90 €

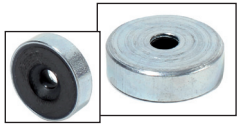
**Depending on availability - Dimensions in mm*

Flat with countersunk hole magnet

With milled bore — PLM

- ***Shielded system***
- *Maw working temp : +200°C*
- ***Material, finish***
  Galvanised steel body, Hard ferrite magnetic core





DISCOUNTS

Qty	1+	6+	20+	40+	60+
Disc.	List	-15%	-20%	-30%	On request

Part number	ØD	ØD1	ØD2	H	Attraction force (N)	Weight (g)	Stock*	Price each 1 to 5
PLM16-4/F	16±0,15	3,3	7	4,5	14	4	✔	5,14 €
PLM20-6/F	20±0,15	4,2	9	6,0	27	9	✔	5,40 €
PLM25-7/F	25±0,15	5,5	11	7,0	36	17	✔	5,73 €
PLM32-7/F	32±0,20	5,5	11	7,0	72	27	✔	6,26 €
PLM40-8/F	40±0,20	5,5	11	8,0	90	52	✔	8,24 €

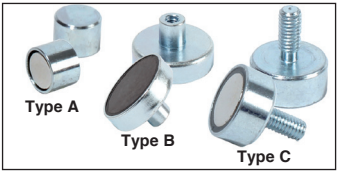
**Depending on availability - Dimensions in mm*

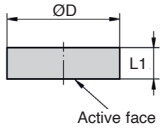
Flat magnet

PLA

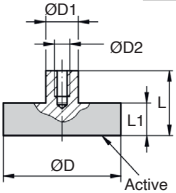
NdFeB

- ***Shielded system***
- NdFeB magnets offer 10-20% more attraction force than SmCo magnets
- Max working temp : +80°C
- ***Material, finish***
  Galvanised steel body,
  Magnetic core NeFeB

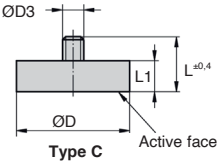




Type A



Type B



Type C

DISCOUNTS

Qty	1+	6+	20+	40+	60+
Disc.	List	-15%	-20%	-30%	On request

Part number	Type	ØD	ØD1	ØD2	ØD3	L	L1	Attraction force (N)	Weight (g)	Stock*	Price each 1 to 5
PLA6-4/A	A	6±0,15	-	-	-	-	4,5	5	1,0	✔	3,98 €
PLA8-4/A	A	8±0,15	-	-	-	-	4,5	13	1,5	✔	4,13 €
PLA10-4/A	A	10±0,15	-	-	-	-	4,5	25	2,5	✔	4,83 €
PLA13-4/A	A	13±0,15	-	-	-	-	4,5	60	4,5	✔	5,00 €
PLA16-4/A	A	16±0,15	-	-	-	-	4,5	95	6,5	-	5,96 €
PLA20-6/A	A	20±0,15	-	-	-	-	6,0	140	15,0	-	8,99 €
PLA25-7/A	A	25±0,15	-	-	-	-	7,0	200	22,0	-	13,48 €
PLA32-7/A	A	32±0,20	-	-	-	-	7,0	350	40,0	✔	21,18 €
PLA6-4/B	B	6±0,15	6	M3	-	11,5	4,5	5	1,5	-	5,00 €
PLA8-4/B	B	8±0,15	6	M3	-	11,5	4,5	13	2,0	✔	5,14 €
PLA10-4/B	B	10±0,15	6	M3	-	11,5	4,5	25	3,0	✔	5,91 €
PLA13-4/B	B	13±0,15	6	M3	-	11,5	4,5	60	5,0	✔	6,17 €
PLA16-4/B	B	16±0,15	6	M4	-	11,5	4,5	95	7,5	✔	7,20 €
PLA20-6/B	B	20±0,15	8	M4	-	13,0	6,0	140	16,0	✔	12,26 €
PLA25-7/B	B	25±0,15	8	M4	-	14,0	7,0	200	25,0	-	18,26 €
PLA32-7/B	B	32±0,20	10	M5	-	15,5	7,0	350	48,0	✔	24,67 €
PLA10-4/C	C	10±0,15	-	-	M3	11,5	4,5	25	3,0	✔	5,58 €
PLA13-4/C	C	13±0,15	-	-	M5	12,5	4,5	60	5,0	✔	6,17 €
PLA16-4/C	C	16±0,15	-	-	M6	12,5	4,5	95	8,0	✔	7,24 €
PLA20-6/C	C	20±0,15	-	-	M6	16,0	6,0	140	16,0	✔	12,31 €
PLA25-7/C	C	25±0,15	-	-	M6	17,0	7,0	200	25,0	✔	18,26 €
PLA32-7/C	C	32±0,20	-	-	M6	17,0	7,0	350	48,0	✔	25,16 €

** Depending on availability - Dimensions in mm*

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MINIMUM ORDER 20€*

* Certain conditions apply - Deliveries to mainland France only

INDICATOR

P. 251-267

MECHANICAL-DIGITAL POSITION INDICATOR



p.252

ELECTRONIC DIGITAL POSITION INDICATOR



p.260

MULTIFUNCTION DISPLAY



p.262

Buying guide

Position indicator

				
Part number	**OP3**	**OP6**	**OP7**	**EP7**
Description	mechanical indicator	mechanical indicator	fine mechanical indicator	electronic indicator
Display	4 digit display	5 digit display	5 digit display	5 digit display
Hollow shaft diameter (mm)	Ø14	Ø20	Ø20	Ø20
Quality	☆☆☆	☆☆☆	☆☆☆	☆☆☆
Price	€ €	€ €	€ €	€ € €
Pages	1 **p.252**	1 **p.254**	1 **p.256**	1 **p.260**

Position transducer

			
Part number	**F7-E**	**F7-I**	
Description	electronic display	electronic display	
Sensor	external	internal	
Quality	☆☆☆	☆☆☆	
Price	€ €	€ €	
Pages	1 **p.263**	1 **p.264**	

Mechanical-digital position indicator

Size XS Stack

OP3DX
OP3SX

4 digit display

- **4 digit display (9999) with red digits for tenths/hundredths**
- Shaft driven position indicator
- Displays linear or angular movement by use of mechanism driven by a rotating shaft
- Nonflammable polycarbonate case Protection IP64
  Max. temperature 80°C
- Colour: orange
- Height of digits: 5mm
- Standard bore for shaft 14H7, smaller bores will require use of reducing sleeve

Stainless steel version available on request

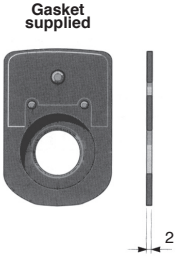


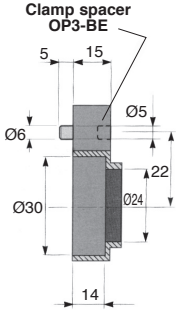
Options

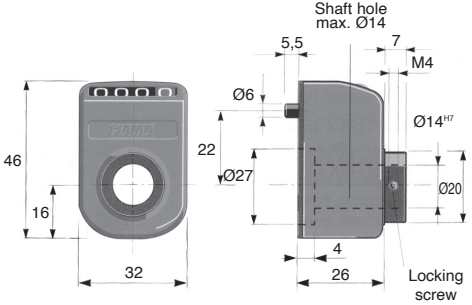
- Version with stainless steel parts available
- Anti-rotation pin Ø6mm

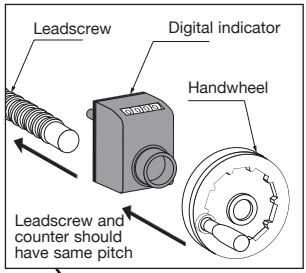
Assembly

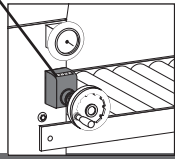
- Insert the indicator on to the shaft ensuring that the torque pin is inserted into the 5mm hole that should have been provided. Reset the display to zero and secure the fixing screw.

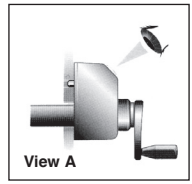


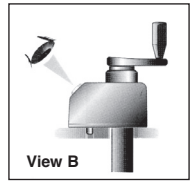












DISCOUNTS

Qty	1+	5+	+10
Disc.	List	-15%	On request

Part number	View	Pitch (mm)	Display after one turn (mm)	Max. speed (rpm)	Counting direction	Stock*	Price each 1 to 4
OP3-A10-DX	A	1	001 0	300	clockwise	✔	69,41 €
OP3-A20-DX	A	2	002 0	300	clockwise	✔	69,41 €
OP3-A40-DX	A	4	004 0	250	clockwise	✔	69,41 €
OP3-A50-DX	A	5	005 0	200	clockwise	✔	69,41 €
OP3-A100-DX	A	10	010 0	150	clockwise	✔	69,41 €
OP3-B10-DX	B	1	001 0	300	clockwise	✔	69,41 €
OP3-B20-DX	B	2	002 0	300	clockwise	✔	69,41 €
OP3-B40-DX	B	4	004 0	250	clockwise	✔	69,41 €
OP3-B50-DX	B	5	005 0	200	clockwise	-	69,41 €
OP3-B100-DX	B	10	010 0	150	clockwise	-	69,41 €
OP3-A10-SX	A	1	001 0	300	anticlockwise	✔	69,41 €
OP3-A20-SX	A	2	002 0	300	anticlockwise	-	69,41 €
OP3-A40-SX	A	4	004 0	250	anticlockwise	✔	69,41 €
OP3-A50-SX	A	5	005 0	200	anticlockwise	-	69,41 €
OP3-A100-SX	A	10	010 0	150	anticlockwise	✔	69,41 €
OP3-B10-SX	B	1	001 0	300	anticlockwise	-	69,41 €
OP3-B20-SX	B	2	002 0	300	anticlockwise	-	69,41 €
OP3-B40-SX	B	4	004 0	250	anticlockwise	-	69,41 €
OP3-B50-SX	B	5	005 0	200	anticlockwise	-	69,41 €
OP3-B100-SX	B	10	010 0	150	anticlockwise	-	69,41 €
Spacer							
OP3-BE	-	-	-	-	-	-	14,74 €

**Depending on availability - Dimensions in mm*

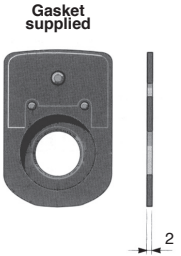
Mechanical-digital position indicator

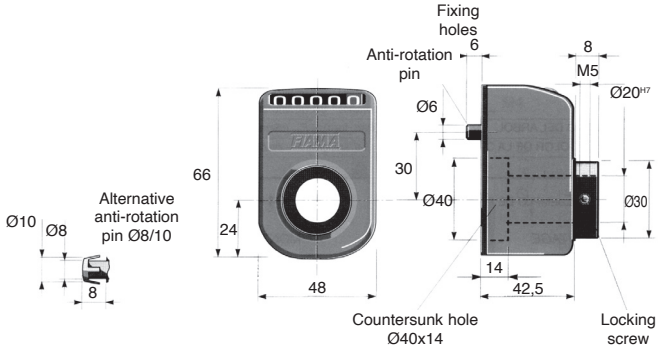
OP6DX
OP6SX

5 digit display

- ***5 digit display (99999) with red digits for tenths/hundredths***
- *Shaft driven position indicator*
- *Displays linear or angular movement by use of mechanism driven by a rotating shaft*
- *Nonflammable polycarbonate case Protection IP64 Max. temperature 80°C*
- *Colour: orange*
- *Height of digits: 6mm.*
- *Standard bore for shaft 20H7, smaller bores will require use of reducing sleeve*







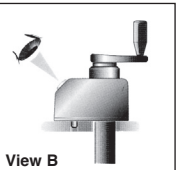
Options

- Version with stainless steel parts available

Assembly

- Insert the indicator on to the shaft ensuring that the anti-rotation pin is inserted into the 6mm hole that should have been drilled previously. Reset the display to zero and secure the fixing screw.


View A


View B

DISCOUNTS

Qty	1+	5+	+10
Disc.	List	-15%	On request

Part number	View	Pitch (mm)	Display after one turn (mm)	Max. speed (rpm)	Counting direction	Stock*	Price each 1 to 4
OP6-A10-DX	A	1	001 0	300	clockwise	✔	71,89 €
OP6-A20-DX	A	2	002 0	300	clockwise	✔	71,89 €
OP6-A40-DX	A	4	004 0	200	clockwise	✔	71,89 €
OP6-A50-DX	A	5	005 0	200	clockwise	✔	71,89 €
OP6-A100-DX	A	10	010 0	150	clockwise	✔	71,89 €
OP6-B10-DX	B	1	001 0	300	clockwise	✔	71,89 €
OP6-B20-DX	B	2	002 0	300	clockwise	✔	71,89 €
OP6-B40-DX	B	4	004 0	200	clockwise	✔	71,89 €
OP6-B50-DX	B	5	005 0	200	clockwise	-	71,89 €
OP6-B100-DX	B	10	010 0	150	clockwise	-	71,89 €
OP6-A10-SX	A	1	001 0	300	anticlockwise	-	71,89 €
OP6-A20-SX	A	2	002 0	300	anticlockwise	-	71,89 €
OP6-A40-SX	A	4	004 0	200	anticlockwise	✔	71,89 €
OP6-A50-SX	A	5	005 0	200	anticlockwise	✔	71,89 €
OP6-A100-SX	A	10	010 0	150	anticlockwise	-	71,89 €
OP6-B10-SX	B	1	001 0	300	anticlockwise	-	71,89 €
OP6-B20-SX	B	2	002 0	300	anticlockwise	-	71,89 €
OP6-B40-SX	B	4	004 0	200	anticlockwise	-	71,89 €
OP6-B50-SX	B	5	005 0	200	anticlockwise	-	71,89 €
OP6-B100-SX	B	10	010 0	150	anticlockwise	-	71,89 €

*Depending on availability - Dimensions in mm

Mechanical-digital position indicator

OP7DX
OP7SX

5 digit display

- **5 digit display (red digit displays tenths, black digit displays hundredth), displays up to 99999**
- Shaft driven position indicator
- 5 digit display to display and control a linear movement (or an angle) that is driven by a rotating control shaft.
- Non-flammable shock-proof polycarbonate housing
- Max temperature: 80 °C
- Coulor : orange
- Height of digits: 6 mm with
- Standard shaft hole 20H7, other holes smaller than 20mm with reducing sleeve.

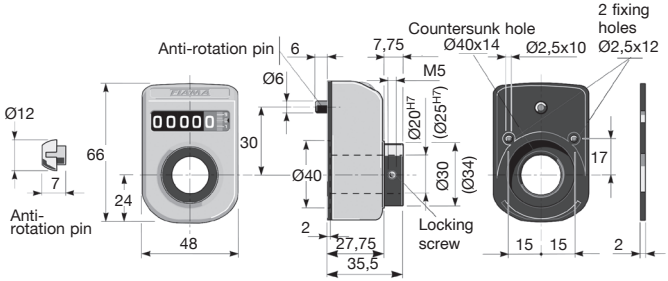


Stainless steel version on request



Avantages

- Interchangeable with the OP6 but with a smaller, more compact shape.
- The overall height of the OP7 fitted with the OP6-FL locking clamp is the same as the OP6



Options

- Version with stainless steel parts available

Assembly

- Insert the indicator on to the shaft ensuring that the anti-rotation pin is inserted into the 6mm hole that should have been drilled previously. Reset the display to zero and secure the fixing screw.



View A



View B

DISCOUNTS

Qty	1+	5+	+10
Disc.	List	-15%	On request

Part number	View	Pitch (mm)	Display after one turn (mm)	Max. speed (rpm)	Counting direction	Price each 1 to 4
OP7-A10-DX	A	1	001 0	300	clockwise	73,59 €
OP7-A20-DX	A	2	002 0	300	clockwise	73,59 €
OP7-A40-DX	A	4	004 0	200	clockwise	73,59 €
OP7-A50-DX	A	5	005 0	200	clockwise	73,59 €
OP7-A100-DX	A	10	010 0	150	clockwise	73,59 €
OP7-B10-DX	B	1	001 0	300	clockwise	73,59 €
OP7-B20-DX	B	2	002 0	300	clockwise	73,59 €
OP7-B40-DX	B	4	004 0	200	clockwise	73,59 €
OP7-B50-DX	B	5	005 0	200	clockwise	73,59 €
OP7-B100-DX	B	10	010 0	150	clockwise	73,59 €
OP7-A10-SX	A	1	001 0	300	anticlockwise	73,59 €
OP7-A20-SX	A	2	002 0	300	anticlockwise	73,59 €
OP7-A40-SX	A	4	004 0	200	anticlockwise	73,59 €
OP7-A50-SX	A	5	005 0	200	anticlockwise	73,59 €
OP7-A100-SX	A	10	010 0	150	anticlockwise	73,59 €
OP7-B10-SX	B	1	001 0	300	anticlockwise	73,59 €
OP7-B20-SX	B	2	002 0	300	anticlockwise	73,59 €
OP7-B40-SX	B	4	004 0	200	anticlockwise	73,59 €
OP7-B50-SX	B	5	005 0	200	anticlockwise	73,59 €
OP7-B100-SX	B	10	010 0	150	anticlockwise	73,59 €

Dimensions in mm

Reducing sleeve for OP indicators

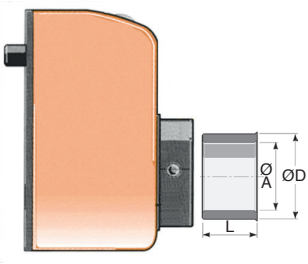
Stock*

OP
OPF

For bore 6mm to 18mm

- ***Reducing sleeve for use with digital position indicators***
- *Material:*
  Nylon





DISCOUNTS

Qty	1+	5+	10+	15+	25+
Disc.	List	-6%	-12%	-20%	On request

Part number	Bore ØA	ØD	L	Stock*	Price each 1 to 4
For indicator OP3					
OP3-14-06	6	14	12	✔	7,04 €
OP3-14-08	8	14	12	✔	4,15 €
OP3-14-10	8	14	12	✔	4,15 €
OP3-14-12	12	14	12	✔	4,15 €
For indicator OP6 and OP7					
OP6-20-10	10	20	12	-	7,68 €
OP6-20-12	12	20	12	✔	7,68 €
OP6-20-14	14	20	12	✔	4,24 €
OP6-20-16	16	20	12	✔	4,24 €
OP6-20-17	17	20	12	-	4,24 €
OP6-20-18	18	20	12	-	4,24 €

**Depending on availability- Dimensions in mm*

Clamping plate and operating knob

OPFL
OPPM

Clamping plate
- *Placed on the back of the indicator.*
- *Allows shaft to be blocked in desired position*
- *Can be mounted in positions* **A** *or* **B**.
- *Materials: Zirtel® and die cast zinc*

Operating knob
- *The knob attaches directly to the indicator shaft*
- *Allows manual operation of the position indicator*
- *An adhesive sticker attached to the knob indicates the direction in which to turn to increase or decrease the displayed value*
- *Material: anodised black aluminium*



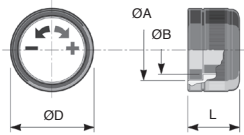
OP-PM manual operating knob

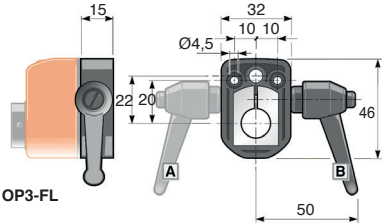


OP-FL Clamping plate

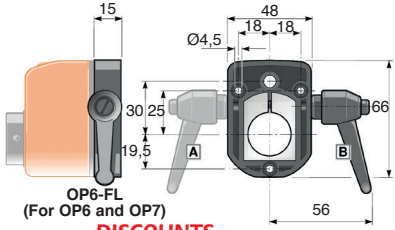


Assembly OP and OP-PM





OP3-FL



OP6-FL (For OP6 and OP7)

DISCOUNTS

Qty	1+	5+	10+	15+	25+
Disc.	List	-6%	-12%	-20%	On request

Part number	ØD	ØA	ØB	L	Stock*	Price each 1 to 4
Clamping plate						
OP3-FL	-	-	-	15,0	✔	70,50 €
OP6-FL	-	-	-	15,0	✔	70,50 €
Manual operating knob						
OP3-PM	31,8	20	16	17,5	✔	27,07 €
OP6-PM	44,0	30	26	27,5	-	34,43 €

**Depending on availability - Dimensions in mm*

Electronic digital position indicator

EP7

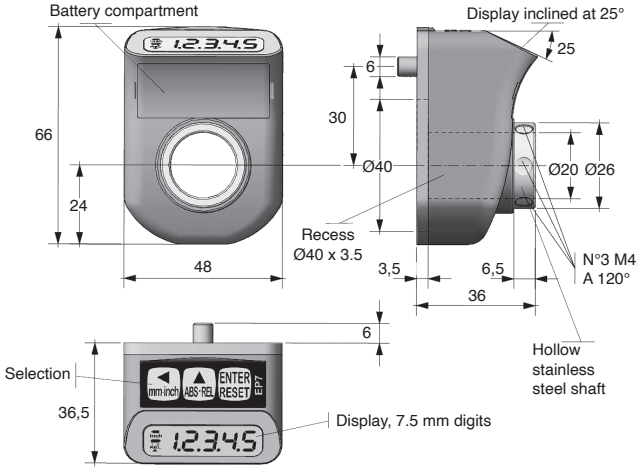
5 digit display

- **A position transducer and display in same enclosure**
- For measuring small linear or angular displacements
- Easy mounting
- Easy to programme using 3 pushbuttons
- Max temperature: 80 °C
- Solid inflammable shockproof housing



Application

- Packaging machines or those used for wood treatment or aluminium and sheet metal processing



- **Power supply: ½AA battery 3,6V**
- Battery life: 4 years (continuous use)
- Max speed: 400 rpm (continuous), 1,000 rpm (for short periods)
- Display range: -99999 to +999999
- Display: 7.5 mm LCD
- Keypad: 3 keys for programming and function selection
- Functions available:
  - Reset/preset
  - Absolute/relative reference mm/inch conversion
  - Display in degrees
  - 3 different start points when using different tools
  - Compensation for tool wear
- Working temperature range: 0 to 50 °C
- Working humidity range: 35 to 85 %RH
- Ingress protection: IP54
- EMC Compatibility; Complies to 2004/108/CE


View A


View B

Also available in orange

DISCOUNTS

Qty	1+	5+
Disc.	List	On request

Part number	View	Resolution (pulses/rev)	Shaft diameter	Enclosure colour	Weight (kg)	Stock*	Price each
EP7-F20-A-G	A	4000	20	black	0,11	-	328,68 €
EP7-F20-A-R	A	4000	20	orange	0,11	-	328,68 €
EP7-F20-B-G	B	4000	20	black	0,11	-	328,68 €
EP7-F20-B-R	B	4000	20	orange	0,11	-	328,68 €

*Depending on availability - Dimensions in mm

Multifunction display

F7 Displays position or distance

- ***Used to display either linear or angular displacement, the F7 is a position indicator which is available with either an internal or external sensor and is used with the P25 magnetic band or the AM magnetic ring.***
- *The measurement direction, position of the decimal point, unit of measure (inches or mm), absolute/relative measurement can be all be selected using a keypad. There is also a reset/preset feature.*
- *A corrective coefficient of between 0.0001 and 99999 can also be applied to the displayed value.*
- *The electronics are housed in a robust enclosure made from self extinguishing plastic.*
- *Two versions are available:*
  - *F7-E which has an external sensor connected by a fixed cable*
  - *F7-I which has an integrated sensor*
- *The indicator can either be mounted using the 2 threaded holes on the back of the enclosure or the optional SM support bracket, SF mounting flange bracket or SN swivel support.*
- *The indicator is powered from a single 3.6V ½AA battery which should last 4 years. A low battery icon will be displayed when the battery requires replacing which can be done without losing the displayed values or current configuration.*



F7-E-A with rear support **(F7-SF),** magnetic band **(F7-P25/10-500)** and band support **(F7-SB-500)**

Applications

- *Wood working machinery, printing machines*



F7-I-A with mounting flange **F7-SF** and magnetic band **F7-P25/10-500** and band end-caps **F7-TB**



F7-E-A with magnetic ring **F7-AM**

Multifunction display

With external sensor

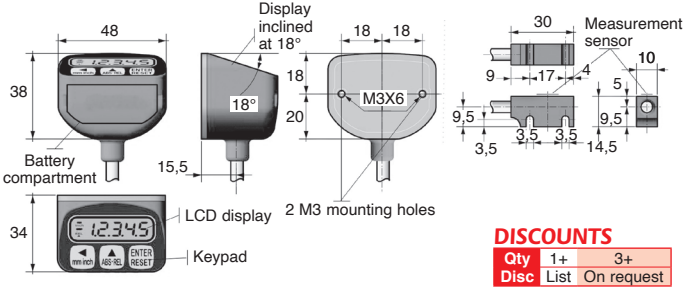
F7-E



- ***Indicator with an external sensor***
- *Resolution: 0.1mm*
- *Max speed: 2.5m/s*
- *Display range: -99999 to 99999*
- *Display: LCD, character height 7.5mm*
- *Max distance between sensor and band: 1mm*
- *3 button tactile keypad*
- *Sensor IP rating: IP67*
- *Indicator IP protection: IP54*
- *Working temperature: 0 to 50°C*
- *Relative humidity: 35-85%*
- *EMC protection: 2004/108/EC*
- *Power supply: ½AA 3.6V battery (Lithium-thionyl chloride)*
- *Battery life: Approx 4 years*
- *Material:*
  Sensor: Black anodised aluminium
  Display housing: Plastic

Parameters

- *Reset/preset, absolute/incremental, mm/inch/degrees, 3 origin points*



DISCOUNTS

Qty	1+	3+
Disc	List	On request

Part number	View	Length of sensor (mm)	Price each 1 to 2
F7-E-A-500	A	500	422,96 €
F7-E-A-1000	A	1000	422,96 €
F7-E-A-3000	A	3000	447,88 €
F7-E-A-5000	A	5000	472,79 €
F7-E-B-500	B	500	422,96 €
F7-E-B-1000	B	1000	422,96 €
F7-E-B-3000	B	3000	447,88 €
F7-E-B-5000	B	5000	472,79 €

Dimensions in mm

Multifunction display

F7-I With internal sensor

- ***Indicator with integrated sensor***
- *Resolution: 0.1mm*
- *Max speed: 2.5m/s*
- *Display range: -99999 to 99999*
- *Display: LCD, character height 7.5mm*
- *Max distance between sensor and band: 1mm*
- *3 button tactile keypad*
- *Sensor IP rating: IP67*
- *Indicator IP protection: IP54*
- *Working temperature: 0 to 50°C*
- *Relative humidity: 35-85%*
- *EMC protection: 2004/108/EC*
- *Power supply: ½AA 3.6V battery ((Lithium-thionyl chloride)*
- *Battery life: Approx 4 years*
- *Material:*
  Sensor: Black anodised aluminium
  Display housing: Plastic



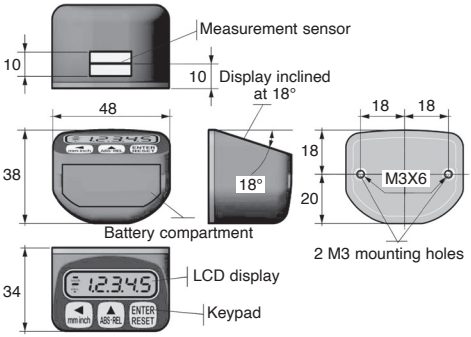
View A



View B

Parameters

- *Reset/preset, absolute/incremental, mm/inch/degrees, 3 origin points*



DISCOUNTS

Qty	1+	3+
Disc	List	On request

Part number	View	Price each 1 to 2
F7-I-A	A	362,89 €
F7-I-B	B	362,89 €

Dimensions in mm

- Magnetic strip

- The sensor contains magnetoresistive bridges which read information from the magnetic band which is transmitted to an electronic conversion circuit.

- The P25 magnetic band, which contains a 2.5mm magnetic pole, comprises of

A: A flexible magnetised plasto-ferrite band

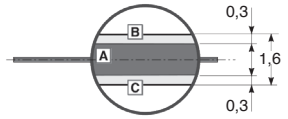
B: A metallic strip to provide protection against dirt and any risk of mechanical friction, this is recommended and should be installed by the customer

C: A factory assembled corrosion resistant metal strip to be fixed in place on the machine or in the modular support

- Other lengths available, please ask for details







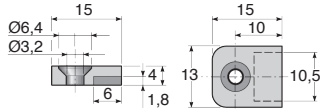
Magnetic band F7-P25/10-500

End-cap

- For an aesthetic finish

Butt jointed modular support

- Material: anodised aluminium



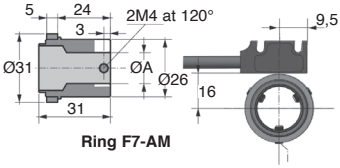
Band end-cap (2 pieces)

Magnetic ring-shaped sensor

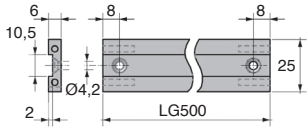
- For measuring the angular displacement (in degrees) of a Ø14 or Ø20 shaft

- To be used with a multifunction display with external sensor only F7-E

Sensor 120 steps (pitch 3°)



Ring F7-AM



Modular support F7-SB-500

DISCOUNTS

Qty	1+	3+
Disc	List	On request

Part number	Type	Length (mm)	Shaft diameter ØA	Price each 1 to 2
F7-P25/10-500	Magnetic band	500	-	67,28 €
F7-TB	End-cap	-	-	7,41 €
F7-SB-500	Modular support	500	-	87,20 €
F7-AM14	Magnetic ring	-	14	59,79 €
F7-AM20	Magnetic ring	-	20	59,79 €

Dimensions in mm

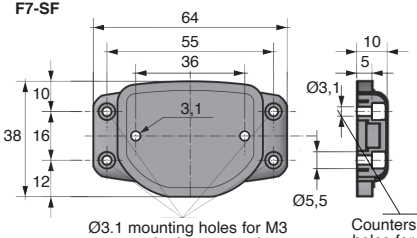
Mounting bracket front mounting or right angled

F7SF F7SM

For multifunction display

- ***Mounting bracket for either front or right angled mounting***
- *Material:*
  Brilliant grey polycarbonate

F7-SF



Ø3.1 mounting holes for M3 screws for front mounting

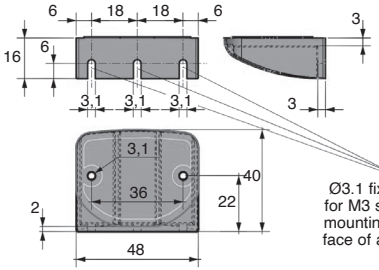
Countersunk holes for M3 hexagonal screws



Front mounting



F7-SM



Ø3.1 fixing slots for M3 screws for mounting on front face of a machine



Right angled



DISCOUNTS

Qty	1+	3+
Disc	List	On request

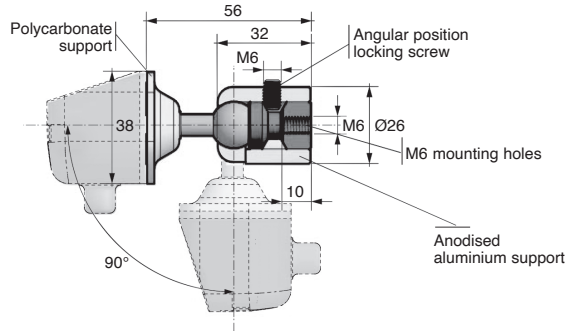
Part number	Type	Price each 1 to 2
F7-SF	Mounting bracket for front mounting	29,88 €
F7-SM	Right angled mounting bracket	29,88 €

Dimensions in mm

For multifunction display F7SN

- ***Adjustable support bracket allowing view from any position***
- *Material:*
  Brilliant grey polycarbonate
  Anodised aluminium base









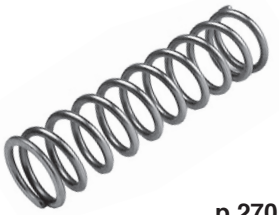
DISCOUNTS

Qty	1+	3+
Disc	List	On request

Part number	Type	Price each 1 to 2
F7-SN	Articulated support	79,73 €

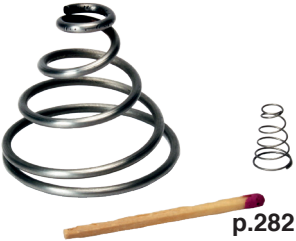
Dimensions in mm

COMPRESSION SPRING



p.270

CONICAL COMPRESSION SPRING



p.282

EXTENTION SPRING



p.288

TORSION SPRING



p.298

DIE SPRING



p.300

DISC SPRING



p.308

SPRING

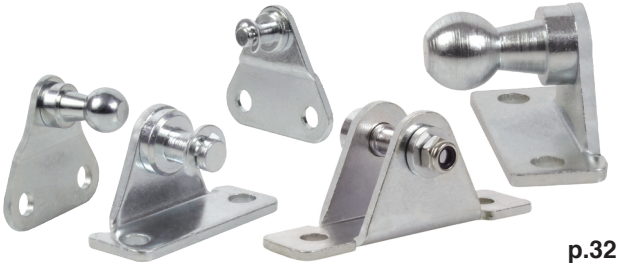
P. 270-331

ADJUSTABLE GAS SPRING



p315

GAS SPRING ACCESSORIES



p.321

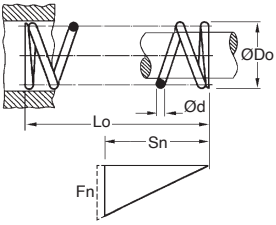
Compression spring DIN 2095

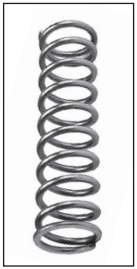
CD
Ø0,5-Ø0,8

Stainless steel piano wire

- ***Materials:***
  Piano wire: stainless steel conforming to DIN 17224, Stainless steel XCrNi7
- *Wound: right hand*
- *Ends:*
  Wire ≤ 0.8mm squared, not ground
  Wire > 0.8mm squared and ground
- *Loads: Load values indicated are based on a life of 50,000 cycles at 50% of max. load*
- *Tolerances: All sizes and strengths in accordance with DIN 2095 (Grade 2)*

100+ pieces Contact us





Info.

- *Please contact us for custom made springs for your application. (Minimum order quantities may apply)*

DISCOUNTS

Qty	1+	5+	25+	50+	100+
Disc.	List	-10%	-20%	-30%	On request

Part number	Wire Ød	External Ø Do	N° active coils	Free length Lo	Rate C N/mm	Max. deflection Sn (mm)	Max. load Fn (N)	Stock*	Price each 1 to 4
CD2110	0,50	3,00	3,50	4,40	9,94	0,90	8,93	✔	9,32 €
CD2111	0,50	3,00	5,50	6,10	6,37	1,40	8,93	✔	9,32 €
CD2112	0,50	3,00	8,50	8,70	4,12	2,20	8,93	✔	9,32 €
CD2113	0,50	3,00	12,50	12,00	2,81	3,00	8,93	✔	9,32 €
CD2114	0,50	3,00	18,50	17,50	1,90	4,70	8,93	✔	9,32 €
CD2115	0,50	3,70	3,50	5,50	4,78	1,80	8,59	-	9,32 €
CD2116	0,50	3,70	5,50	7,90	3,03	2,80	8,59	✔	9,32 €
CD2117	0,50	3,70	8,50	11,50	1,96	4,40	8,59	✔	9,32 €
CD2118	0,50	3,70	12,50	16,00	1,34	6,20	8,59	✔	9,32 €
CD2119	0,50	3,70	18,50	23,50	0,90	9,50	8,59	✔	9,32 €
CD2120	0,50	4,50	3,50	7,00	2,43	3,30	8,00	✔	9,32 €
CD2121	0,50	4,50	5,50	10,00	1,55	4,90	8,00	✔	9,32 €
CD2122	0,50	4,50	8,50	15,00	1,00	7,90	8,00	✔	9,32 €
CD2123	0,50	4,50	12,50	21,50	0,68	11,70	8,00	✔	9,32 €
CD2124	0,50	4,50	18,50	31,00	0,46	17,00	8,00	✔	9,32 €
CD2125	0,50	5,50	3,50	9,40	1,25	5,50	6,91	✔	9,32 €
CD2126	0,50	5,50	5,50	14,00	0,80	8,60	6,91	✔	9,32 €
CD2127	0,50	5,50	8,50	20,50	0,52	12,90	6,91	✔	9,32 €
CD2128	0,50	5,50	12,50	30,00	0,35	19,40	6,91	✔	9,32 €
CD2129	0,50	5,50	18,50	44,50	0,23	29,40	6,91	✔	9,32 €

**Depending on availability - Dimensions in mm*

Part number	Wire Ød	External Ø Do	N° active coils	Free length Lo	Rate C N/mm	Max. deflection Sn (mm)	Max. load Fn (N)	Stock*	Price each 1 to 4
CD2130	0,50	6,80	3,50	13,50	0,63	9,20	5,64	✔	9,32 €
CD2131	0,50	6,80	5,50	20,00	0,40	14,00	5,64	✔	9,32 €
CD2132	0,50	6,80	8,50	30,00	0,26	21,30	5,64	✔	9,32 €
CD2133	0,50	6,80	12,50	44,00	0,18	31,80	5,64	✔	9,32 €
CD2134	0,50	6,80	18,50	65,00	0,12	47,60	5,64	✔	9,32 €
CD2135	0,63	3,83	3,50	5,50	12,04	1,50	18,00	-	9,32 €
CD2136	0,63	3,83	5,50	7,80	7,64	2,40	18,00	✔	9,32 €
CD2137	0,63	3,83	8,50	11,00	4,96	3,50	18,00	✔	9,32 €
CD2138	0,63	3,83	12,50	15,50	3,38	5,20	18,00	✔	9,32 €
CD2139	0,63	3,83	18,50	22,50	2,28	7,80	18,00	-	9,32 €
CD2140	0,63	4,63	3,50	6,70	6,15	2,40	14,80	✔	9,32 €
CD2141	0,63	4,63	5,50	9,60	3,91	3,80	14,80	✔	9,32 €
CD2142	0,63	4,63	8,50	14,00	2,53	5,80	14,80	✔	9,32 €
CD2143	0,63	4,63	12,50	20,00	1,72	8,70	14,80	✔	9,32 €
CD2144	0,63	4,63	18,50	29,00	1,16	12,80	14,80	✔	9,32 €
CD2145	0,63	5,63	3,50	8,50	3,17	4,20	13,30	✔	9,32 €
CD2146	0,63	5,63	5,50	12,50	2,02	6,70	13,30	✔	9,32 €
CD2147	0,63	5,63	8,50	18,50	1,30	10,30	13,30	✔	9,32 €
CD2148	0,63	5,63	12,50	26,00	0,88	14,70	13,30	✔	9,32 €
CD2149	0,63	5,63	18,50	38,50	0,60	22,30	13,30	✔	9,32 €
CD2150	0,63	6,93	3,50	11,50	1,57	6,90	10,70	✔	9,32 €
CD2151	0,63	6,93	5,50	17,00	1,00	10,80	10,70	✔	9,32 €
CD2152	0,63	6,93	8,50	25,50	0,65	16,60	10,70	✔	9,32 €
CD2153	0,63	6,93	12,50	36,50	0,44	24,20	10,70	✔	9,32 €
CD2154	0,63	6,93	18,50	54,00	0,29	36,30	10,70	✔	9,32 €
CD2155	0,63	8,63	3,50	16,00	0,76	10,90	8,60	✔	9,32 €
CD2156	0,63	8,63	5,50	24,50	0,49	17,40	8,60	✔	9,32 €
CD2157	0,63	8,63	8,50	37,00	0,32	26,80	8,60	✔	9,32 €
CD2158	0,63	8,63	12,50	55,00	0,21	40,70	8,60	✔	9,32 €
CD2159	0,63	8,63	18,50	80,50	0,15	59,90	8,60	✔	9,32 €
CD2160	0,80	4,80	3,50	6,90	15,92	1,70	27,40	-	9,67 €
CD2161	0,80	4,80	5,50	9,70	10,20	2,70	27,40	✔	9,67 €
CD2162	0,80	4,80	8,50	14,00	6,59	4,20	27,40	✔	9,67 €
CD2163	0,80	4,80	12,50	19,50	4,48	6,00	27,40	✔	9,67 €
CD2164	0,80	4,80	18,50	28,00	3,02	8,90	27,40	✔	9,67 €
CD2165	0,80	5,80	3,50	8,30	8,19	2,70	22,30	-	9,67 €
CD2166	0,80	5,80	5,50	12,00	5,21	4,30	22,30	✔	9,67 €
CD2167	0,80	5,80	8,50	17,50	3,37	6,60	22,30	✔	9,67 €
CD2168	0,80	5,80	12,50	24,50	2,29	9,40	22,30	✔	9,67 €
CD2169	0,80	5,80	18,50	36,00	1,55	14,50	22,30	✔	9,67 €
CD2170	0,80	7,10	3,50	10,50	4,10	4,90	20,60	✔	9,67 €
CD2171	0,80	7,10	5,50	15,50	2,60	7,80	20,60	✔	9,67 €
CD2172	0,80	7,10	8,50	23,00	1,68	12,10	20,60	✔	9,67 €
CD2173	0,80	7,10	12,50	33,00	1,14	17,90	20,60	✔	9,67 €
CD2174	0,80	7,10	18,50	48,00	0,77	26,50	20,60	✔	9,67 €

*Depending on availability - Dimensions in mm

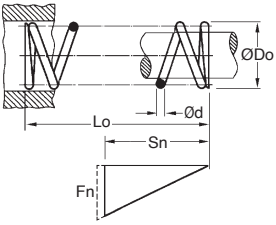
Compression spring DIN 2095

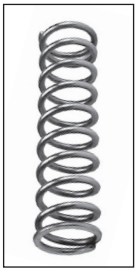
CD
Ø0,8-Ø1,6

Stainless steel piano wire

- ***Materials:***
  Piano wire: stainless steel conforming to DIN 17224, Stainless steel XCrNi7
- *Wound: right hand*
- *Ends:*
  Wire ≤ 0.8mm squared, not ground
  Wire > 0.8mm squared and ground
- *Loads: Load values indicated are ba on a life of 50,000 cycles at 50% of max. load*
- *Tolerances: All sizes and strengths in accordance with DIN 2095 (Grade 2)*

100+ pieces Contact us





Info.

- *Please contact us for custom made springs for your application. (Minim order quantities may apply)*

DISCOUNTS

Qty	1+	5+	25+	50+	100+
Disc.	List	-10%	-20%	-30%	On request

Part number	Wire Ød	External Ø Do	N° active coils	Free length Lo	Rate C N/mm	Max. deflection Sn (mm)	Max. load Fn (N)	Stock*	Price each 1 to 4
CD2175	0,80	8,80	3,50	14,50	1,99	8,40	16,70	✔	9,67 €
CD2176	0,80	8,80	5,50	21,50	1,27	13,10	16,70	✔	9,67 €
CD2177	0,80	8,80	8,50	32,00	0,82	20,00	16,70	✔	9,67 €
CD2178	0,80	8,80	12,50	47,00	0,56	30,30	16,70	✔	9,67 €
CD2179	0,80	8,80	18,50	68,00	0,38	44,20	16,70	✔	9,67 €
CD2180	0,80	10,80	3,50	20,00	1,03	13,10	13,20	✔	9,32 €
CD2181	0,80	10,80	5,50	30,00	0,65	20,20	13,20	✔	9,32 €
CD2182	0,80	10,80	8,50	45,50	0,42	31,20	13,20	✔	9,32 €
CD2183	0,80	10,80	12,50	66,00	0,28	46,10	13,20	✔	9,32 €
CD2184	0,80	10,80	18,50	96,50	0,20	68,00	13,20	-	9,67 €
CD2185	1,00	6,00	3,50	8,50	20,00	1,90	38,00	-	12,31 €
CD2186	1,00	6,00	5,50	12,00	12,72	3,00	38,00	✔	12,31 €
CD2187	1,00	6,00	8,50	17,00	8,22	4,40	38,00	✔	12,31 €
CD2188	1,00	6,00	12,50	24,00	5,59	6,60	38,00	✔	12,31 €
CD2189	1,00	6,00	18,50	34,50	3,78	9,90	38,00	✔	12,31 €
CD2190	1,00	7,30	3,50	10,00	9,94	2,70	29,00	✔	12,31 €
CD2191	1,00	7,30	5,50	14,50	6,35	4,40	29,00	✔	12,31 €
CD2192	1,00	7,30	8,50	21,50	4,11	7,20	29,00	✔	12,31 €
CD2193	1,00	7,30	12,50	30,50	2,80	10,60	29,00	✔	12,31 €
CD2194	1,00	7,30	18,50	43,50	1,89	15,20	29,00	✔	12,31 €

**Depending on availability - Dimensions in mm*

Part number	Wire Ød	External Ø Do	N° active coils	Free length Lo	Rate C N/mm	Max. deflection Sn (mm)	Max. load Fn (N)	Stock*	Price each 1 to 4
CD2195	1,00	9,00	3,50	13,00	4,88	5,70	28,00	✔	12,31 €
CD2196	1,00	9,00	5,50	19,00	3,10	8,90	28,00	✔	12,31 €
CD2197	1,00	9,00	8,50	28,50	2,00	14,20	28,00	✔	12,31 €
CD2198	1,00	9,00	12,50	40,50	1,37	20,60	28,00	✔	12,31 €
CD2199	1,00	9,00	18,50	59,00	0,93	30,70	28,00	✔	12,31 €
CD2200	1,00	11,00	3,50	17,50	2,49	9,50	23,00	✔	12,31 €
CD2201	1,00	11,00	5,50	26,00	1,59	14,80	23,00	✔	12,31 €
CD2202	1,00	11,00	8,50	39,00	1,03	23,00	23,00	✔	12,31 €
CD2203	1,00	11,00	12,50	56,00	0,70	33,60	23,00	✔	12,31 €
CD2204	1,00	11,00	18,50	81,50	0,47	49,50	23,00	✔	12,31 €
CD2205	1,00	13,50	3,50	24,00	1,28	14,60	19,00	✔	12,31 €
CD2206	1,00	13,50	5,50	36,50	0,82	23,10	19,00	✔	12,31 €
CD2207	1,00	13,50	8,50	55,50	0,52	36,10	19,00	✔	12,31 €
CD2208	1,00	13,50	12,50	80,50	0,35	53,10	19,00	✔	12,31 €
CD2209	1,00	13,50	18,50	115,00	0,24	75,60	19,00	✔	12,31 €
CD2210	1,25	7,55	3,50	12,00	24,93	4,80	114,00	✔	11,85 €
CD2211	1,25	7,55	5,50	17,00	15,49	7,20	114,00	✔	11,85 €
CD2212	1,25	7,55	8,50	25,00	10,10	11,20	114,00	✔	11,85 €
CD2213	1,25	7,55	12,50	35,50	6,95	16,30	114,00	✔	11,85 €
CD2214	1,25	7,55	18,50	51,50	4,63	24,20	114,00	✔	11,85 €
CD2215	1,25	9,25	3,50	15,00	12,30	7,60	90,00	✔	11,85 €
CD2216	1,25	9,25	5,50	22,00	7,66	11,50	90,00	✔	11,85 €
CD2217	1,25	9,25	8,50	33,00	5,01	18,10	90,00	✔	11,85 €
CD2218	1,25	9,25	12,50	47,50	3,40	26,50	90,00	✔	11,85 €
CD2219	1,25	9,25	18,50	69,00	2,31	39,00	90,00	✔	11,85 €
CD2220	1,25	11,25	3,50	20,00	6,09	12,30	73,00	✔	11,85 €
CD2221	1,25	11,25	5,50	29,50	3,87	18,70	73,00	✔	11,85 €
CD2222	1,25	11,25	8,50	44,50	2,51	29,30	73,00	✔	11,85 €
CD2223	1,25	11,25	12,50	64,00	1,71	42,90	73,00	✔	11,85 €
CD2224	1,25	11,25	18,50	93,50	1,15	63,50	73,00	✔	11,85 €
CD2225	1,25	13,75	3,50	27,00	3,12	18,80	59,00	✔	11,85 €
CD2226	1,25	13,75	5,50	41,50	1,98	29,90	59,00	✔	11,85 €
CD2227	1,25	13,75	8,50	62,50	1,28	46,00	59,00	✔	11,85 €
CD2228	1,25	13,75	12,50	90,50	0,88	67,40	59,00	✔	11,85 €
CD2229	1,25	13,75	18,50	130,00	0,59	97,10	59,00	✔	11,85 €
CD2230	1,25	17,25	3,50	40,50	1,49	31,40	46,00	✔	11,85 €
CD2231	1,25	17,25	5,50	62,00	0,94	49,10	46,00	✔	11,85 €
CD2232	1,25	17,25	8,50	94,00	0,62	75,50	46,00	✔	11,85 €
CD2233	1,25	17,25	12,50	140,00	0,41	114,00	46,00	✔	11,85 €
CD2234	1,25	17,25	18,50	205,00	0,27	168,00	46,00	✔	11,85 €
CD2235	1,60	9,60	3,50	14,50	32,00	5,50	182,00	✔	11,17 €
CD2236	1,60	9,60	5,50	21,50	20,38	8,90	182,00	✔	11,17 €
CD2237	1,60	9,60	8,50	31,50	13,23	13,60	182,00	✔	11,17 €
CD2238	1,60	9,60	12,50	45,00	8,93	20,20	182,00	✔	11,17 €
CD2239	1,60	9,60	18,50	65,50	6,06	30,30	182,00	✔	11,17 €

*Depending on availability - Dimensions in mm

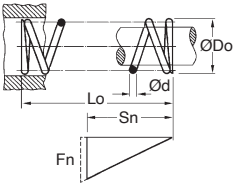
Compression spring DIN 2095

CD
Ø1,6-Ø2

Stainless steel piano wire

- ***Materials***:
  Piano wire: stainless steel conforming to DIN 17224, Stainless steel XCrNi7
- Wound: right hand
- Ends:
  Wire ≤ 0.8mm squared, not ground
  Wire > 0.8mm squared and ground
- Loads: Load values indicated are based on a life of 50,000 cycles at 50% of max. load
- Tolerances: All sizes and strengths in accordance with DIN 2095 (Grade 2)
- Custom designs: Please contact us for custom made springs for your application. (Minimum order quantities may apply)





DISCOUNTS

Qty	1+	5+	25+	50+	100+
Disc.	List	-10%	-20%	-30%	On request

Part number	Wire Ød	External ØDo	N° active coils	Free length Lo	Rate C N/mm	Max. deflection Sn (mm)	Max. load Fn (N)	Stock*	Price each 1 to 4
CD2240	1,60	11,60	3,50	18,50	16,42	9,10	146,00	✔	11,17 €
CD2241	1,60	11,60	5,50	27,00	10,44	13,80	146,00	✔	11,17 €
CD2242	1,60	11,60	8,50	40,50	6,76	21,60	146,00	✔	11,17 €
CD2243	1,60	11,60	12,50	58,50	4,58	32,00	146,00	✔	11,17 €
CD2244	1,60	11,60	18,50	85,00	3,10	47,10	146,00	✔	11,17 €
CD2245	1,60	14,10	3,50	24,00	8,38	14,00	116,00	✔	11,17 €
CD2246	1,60	14,10	5,50	36,00	5,35	21,90	116,00	✔	11,17 €
CD2247	1,60	14,10	8,50	53,50	3,47	33,40	116,00	✔	11,17 €
CD2248	1,60	14,10	12,50	78,00	2,34	50,00	116,00	✔	11,17 €
CD2249	1,60	14,10	18,50	115,00	1,58	75,10	116,00	✔	11,17 €
CD2250	1,60	17,60	3,50	34,00	3,99	23,00	91,00	✔	11,17 €
CD2251	1,60	17,60	5,50	51,50	2,53	36,00	91,00	✔	11,17 €
CD2252	1,60	17,60	8,50	77,50	1,65	55,30	91,00	✔	11,17 €
CD2253	1,60	17,60	12,50	110,00	1,12	78,80	91,00	✔	11,17 €
CD2254	1,60	17,60	18,50	165,00	0,76	120,00	91,00	✔	11,17 €
CD2255	1,60	21,60	3,50	48,00	2,04	35,60	73,00	✔	9,72 €
CD2256	1,60	21,60	5,50	73,50	1,31	55,90	73,00	✔	9,72 €
CD2257	1,60	21,60	8,50	110,00	0,85	84,50	73,00	✔	9,72 €
CD2258	1,60	21,60	12,50	165,00	0,58	129,00	73,00	✔	16,33 €
CD2259	1,60	21,60	18,50	240,00	0,39	188,00	73,00	✔	16,33 €
CD2260	2,00	12,00	3,50	18,00	40,00	6,80	273,00	✔	10,14 €
CD2261	2,00	12,00	5,50	26,50	25,52	10,90	273,00	✔	10,14 €
CD2262	2,00	12,00	8,50	38,50	16,51	16,50	273,00	✔	10,14 €
CD2263	2,00	12,00	12,50	55,00	11,20	24,40	273,00	✔	10,14 €
CD2264	2,00	12,00	18,50	79,50	7,67	36,10	273,00	✔	10,14 €
CD2265	2,00	14,50	3,50	22,50	20,55	10,80	218,00	✔	10,14 €
CD2266	2,00	14,50	5,50	33,00	13,06	16,60	218,00	✔	10,14 €
CD2267	2,00	14,50	8,50	49,50	8,43	26,00	218,00	✔	10,14 €
CD2268	2,00	14,50	12,50	71,00	5,75	38,00	218,00	✔	11,18 €
CD2269	2,00	14,50	18,50	105,00	3,88	57,80	218,00	✔	11,18 €

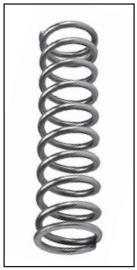
*Depending on availability - Dimensions in mm

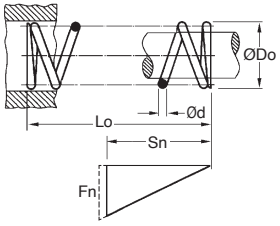
Stainless steel piano wire

CD

- ***Material:***
  Piano springs: Stainless steel conforming to DIN17224, Stainless steel XCrNi7
- Right hand wound
- Ends:
  Wire ≤ 0.8mm squared, not ground
  Wire > 0.8mm, squared and ground
- Operating temperature : 60°C max
- These springs are recommended for static or medium dynamic loads
- Tolerances: All the dimensions and load values given conform to DIN2095 (Grade 2)

25+ pieces Contact us





Info.

- These springs are not preset
- Free length Lo will reduce slightly af first operations under load
- For custom made springs, please contact us (Minimum quantity may apply)

DISCOUNTS

Qty	1+	5+	10+	25+
Disc.	List	-5%	-20%	On request

Part number	Wire Ød	External ØDo	N° active coils	Free length Lo	Rate C N/mm	Max. deflection Sn (mm)	Max. load Fn (N)	Stock*	Price each 1 to 4
CD2270	2,00	18,00	3,5	30,00	9,77	17,50	170,00	✔	8,81 €
CD2271	2,00	18,00	5,5	45,00	6,22	27,30	170,00	✔	8,81 €
CD2272	2,00	18,00	8,5	68,00	4,03	42,50	170,00	✔	8,81 €
CD2273	2,00	18,00	12,5	98,00	2,74	62,10	170,00	✔	9,09 €
CD2274	2,00	18,00	18,5	145,00	1,86	93,60	170,00	✔	9,64 €
CD2275	2,00	22,00	3,5	41,00	5,01	27,40	137,00	✔	8,81 €
CD2276	2,00	22,00	5,5	62,00	3,19	42,80	137,00	✔	8,81 €
CD2277	2,00	22,00	8,5	94,00	2,05	66,40	137,00	✔	9,09 €
CD2278	2,00	22,00	12,5	135,00	1,40	96,20	137,00	✔	9,64 €
CD2279	2,00	22,00	18,5	200,00	0,95	144,00	137,00	-	9,64 €
CD2280	2,00	27,00	3,5	58,00	2,56	43,00	110,00	✔	8,81 €
CD2281	2,00	27,00	5,5	88,50	1,63	67,10	110,00	-	9,09 €
CD2282	2,00	27,00	8,5	135,00	1,06	104,00	110,00	✔	9,64 €
CD2283	2,00	27,00	12,5	195,00	0,71	151,00	110,00	-	9,64 €
CD2284	2,00	27,00	18,5	290,00	0,49	227,00	110,00	-	10,22 €
CD2285	2,20	11,00	3,5	16,20	85,89	3,50	292,00	-	9,10 €
CD2286	2,20	11,00	5,5	23,00	54,58	5,30	292,00	-	9,10 €
CD2287	2,20	11,00	9,5	36,50	31,67	9,10	292,00	-	9,10 €
CD2288	2,20	11,00	15,5	56,80	19,38	15,10	292,00	-	9,10 €

**Depending on availability - Dimensions in mm*

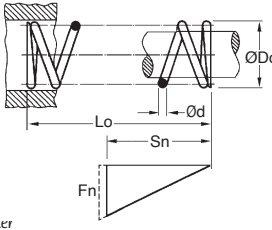
Compression spring DIN 2095

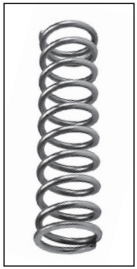
CD Ø2,2-Ø3,2

Stainless steel piano wire

- ***Material :***
  Piano springs: Stainless steel conforming to DIN17224, Stainless steel XCrNi7
- *Right hand wound*
- *Ends:*
  Wire ≤ 0.8mm squared, not ground
  Wire > 0.8mm, squared and ground
- *Operating temperature : 60°C max*
- *These springs are recommended for static or medium dynamic loads*
- *Tolerances: All the dimensions and load values given conform to DIN2095 (Grade 2)*

25+ pieces Contact us





Info.

- *These springs are not preset*
- *Free length Lo will reduce slightly after first operations under load*
- *For custom made springs, please contact us (Minimum quantity may apply)*

DISCOUNTS

Qty	1+	5+	10+	25+
Disc.	List	-5%	-20%	On request

Part number	Wire Ød	External ØDo	N° active coils	Free length Lo	Rate C N/mm	Max. deflection Sn (mm)	Max. load Fn (N)	Stock*	Price each 1 to 4
CD2289	2,20	15,00	3,50	20,00	27,88	7,60	222,00	✔	9,10 €
CD2290	2,20	15,00	5,50	30,20	17,77	12,50	222,00	✔	9,10 €
CD2291	2,20	15,00	9,50	48,90	10,27	21,60	222,00	✔	9,10 €
CD2292	2,20	24,00	3,50	39,20	5,64	25,00	142,00	✔	9,10 €
CD2293	2,20	24,00	5,50	59,10	3,60	39,50	142,00	✔	9,10 €
CD2294	2,50	15,00	3,50	22,00	50,12	8,00	402,00	✔	9,34 €
CD2295	2,50	15,00	5,50	32,00	31,93	12,50	402,00	✔	9,34 €
CD2296	2,50	15,00	8,50	47,50	20,64	19,70	402,00	-	9,34 €
CD2297	2,50	15,00	12,50	67,50	13,98	28,80	402,00	✔	9,34 €
CD2298	2,50	15,00	18,50	98,00	9,43	42,90	402,00	✔	9,34 €
CD2299	2,50	18,50	3,50	27,50	23,83	12,90	313,00	-	9,34 €
CD2300	2,50	18,50	5,50	41,00	15,16	20,50	313,00	✔	9,34 €
CD2301	2,50	18,50	8,50	61,00	9,85	31,70	313,00	✔	9,34 €
CD2302	2,50	18,50	12,50	88,00	6,68	46,90	313,00	✔	9,34 €
CD2303	2,50	18,50	18,50	130,00	4,51	71,10	313,00	✔	9,66 €
CD2304	2,50	22,50	3,50	36,00	12,21	20,50	251,00	✔	9,34 €
CD2305	2,50	22,50	5,50	54,00	7,77	32,10	251,00	✔	9,34 €
CD2306	2,50	22,50	8,50	81,50	5,02	50,00	251,00	✔	9,34 €
CD2307	2,50	22,50	12,50	120,00	3,42	75,70	251,00	✔	9,66 €
CD2308	2,50	22,50	18,50	175,00	2,31	111,00	251,00	✔	9,66 €

**Depending on availability - Dimensions in mm*

Part number	Wire Ød	External ØDo	N° active coils	Free length Lo	Rate C N/mm	Max. deflection Sn (mm)	Max. load Fn (N)	Stock*	Price each 1 to 4
CD2309	2,50	27,50	3,5	49,00	6,26	32,20	200,00	✔	9,34 €
CD2310	2,50	27,50	5,5	74,50	3,99	50,50	200,00	✔	9,34 €
CD2311	2,50	27,50	8,5	115,00	2,58	80,20	200,00	✔	9,34 €
CD2312	2,50	27,50	12,5	165,00	1,75	116,00	200,00	✔	9,66 €
CD2313	2,50	27,50	18,5	240,00	1,19	169,00	200,00	-	9,66 €
CD2314	2,50	34,50	3,5	71,50	2,99	52,20	156,00	✔	9,66 €
CD2315	2,50	34,50	5,5	110,00	1,91	82,10	156,00	✔	9,66 €
CD2316	2,50	34,50	8,5	170,00	1,23	129,00	156,00	✔	9,66 €
CD2317	2,50	34,50	12,5	245,00	0,83	87,00	156,00	-	9,66 €
CD2318	2,50	34,50	18,5	360,00	0,57	276,00	156,00	-	9,97 €
CD2319	2,80	14,00	3,5	20,50	109,50	4,10	446,00	-	10,22 €
CD2320	2,80	14,00	5,5	29,00	66,48	6,70	446,00	-	10,22 €
CD2321	2,80	14,00	9,5	45,90	40,27	11,10	446,00	-	10,22 €
CD2322	2,80	14,00	15,5	71,40	24,68	18,00	446,00	-	10,22 €
CD2323	2,80	20,00	3,5	27,20	30,16	11,00	326,00	✔	11,35 €
CD2324	2,80	20,00	5,5	39,50	19,20	17,00	326,00	-	10,22 €
CD2325	2,80	20,00	9,5	64,20	11,11	29,00	326,00	✔	10,22 €
CD2326	2,80	30,00	3,5	47,00	7,63	29,00	222,00	✔	10,22 €
CD2327	2,80	30,00	5,5	70,70	4,85	45,00	222,00	✔	10,22 €
CD2328	3,20	19,20	3,5	27,50	63,84	9,70	620,00	-	10,22 €
CD2329	3,20	19,20	5,5	40,00	40,69	15,10	620,00	-	10,22 €
CD2330	3,20	19,20	8,5	59,00	26,36	23,60	620,00	-	10,22 €
CD2331	3,20	19,20	12,5	83,50	17,86	34,50	620,00	✔	10,22 €
CD2332	3,20	19,20	18,5	120,00	12,13	50,60	620,00	-	10,22 €
CD2333	3,20	23,20	3,5	33,50	32,77	15,00	496,00	-	10,22 €
CD2334	3,20	23,20	5,5	49,50	20,80	23,60	496,00	✔	10,22 €
CD2335	3,20	23,20	8,5	74,00	13,48	36,90	496,00	✔	10,22 €
CD2336	3,20	23,20	12,5	105,00	9,18	53,40	496,00	✔	10,22 €
CD2337	3,20	23,20	18,5	155,00	6,19	81,80	496,00	✔	10,22 €
CD2338	3,20	28,20	3,5	42,50	16,68	23,40	396,00	✔	10,22 €
CD2339	3,20	28,20	5,5	63,50	10,62	37,20	396,00	✔	10,22 €
CD2340	3,20	28,20	8,5	94,50	6,89	57,40	396,00	✔	10,22 €
CD2341	3,20	28,20	12,5	135,00	4,68	83,40	396,00	✔	10,22 €
CD2342	3,20	28,20	18,5	200,00	3,16	127,00	396,00	✔	10,55 €
CD2343	3,20	35,20	3,5	58,50	8,00	38,70	310,00	✔	10,22 €
CD2344	3,20	35,20	5,5	88,50	5,08	61,10	310,00	-	10,22 €
CD2345	3,20	35,20	8,5	135,00	3,28	96,20	310,00	✔	10,55 €
CD2346	3,20	35,20	12,5	190,00	2,24	136,00	310,00	-	10,55 €
CD2347	3,20	35,20	18,5	280,00	1,51	203,00	310,00	-	10,55 €
CD2348	3,20	43,20	3,5	82,00	4,09	60,80	247,00	-	10,22 €
CD2349	3,20	43,20	5,5	125,00	2,60	95,30	247,00	-	10,22 €
CD2350	3,20	43,20	8,5	190,00	1,68	148,00	247,00	-	10,22 €
CD2351	3,20	43,20	12,5	275,00	1,14	216,00	247,00	-	10,55 €
CD2352	3,20	43,20	18,5	405,00	0,77	321,00	247,00	-	10,55 €

*Depending on availability - Dimensions in mm

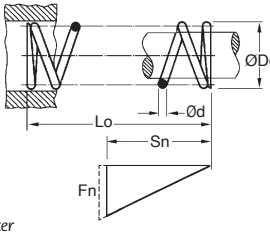
Compression spring DIN 2095

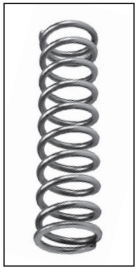
CD
Ø4-Ø6,3

Stainless steel piano wire

- ***Material :***
  Piano springs: Stainless steel conforming to DIN17224, Stainless steel XCrNi7
- *Right hand wound*
- *Ends:*
  Wire ≤ 0.8mm squared, not ground
  Wire > 0.8mm, squared and ground
- *Operating temperature : 60°C max*
- *These springs are recommended for static or medium dynamic loads*
- *Tolerances: All the dimensions and load values given conform to DIN2095 (Grade 2)*

25+ pieces Contact us





Info.

- *These springs are not preset*
- *Free length Lo will reduce slightly after first operations under load*
- *For custom made springs, please contact us (Minimum quantity may apply)*

DISCOUNTS

Qty	1+	5+	10+	25+
Disc.	List	-5%	-20%	On request

Part number	Wire Ød	External ØDo	N° active coils	Free length Lo	Rate C N/mm	Max. deflection Sn (mm)	Max. load Fn (N)	Stock*	Price each 1 to 4
CD2353	4,00	24,00	3,50	33,50	79,94	11,30	918,00	✔	35,20 €
CD2354	4,00	24,00	5,50	49,00	50,87	18,00	918,00	✔	35,20 €
CD2355	4,00	24,00	8,50	72,00	32,93	27,80	918,00	✔	35,20 €
CD2356	4,00	24,00	12,50	105,00	22,41	43,30	918,00	-	34,06 €
CD2357	4,00	24,00	18,50	150,00	15,07	62,30	918,00	-	34,02 €
CD2358	4,00	29,00	3,50	41,00	40,93	18,10	732,00	-	33,79 €
CD2359	4,00	29,00	5,50	60,50	26,02	28,30	732,00	-	33,79 €
CD2360	4,00	29,00	8,50	89,50	16,84	43,50	732,00	✔	33,79 €
CD2361	4,00	29,00	12,50	130,00	1,46	65,50	732,00	✔	36,69 €
CD2362	4,00	29,00	18,50	185,00	7,75	92,90	732,00	-	36,69 €
CD2363	4,00	36,00	3,50	53,50	19,54	29,50	572,00	-	33,79 €
CD2364	4,00	36,00	5,50	79,50	12,39	46,20	572,00	✔	33,79 €
CD2365	4,00	36,00	8,50	120,00	8,03	72,80	572,00	✔	33,79 €
CD2366	4,00	36,00	12,50	170,00	5,45	104,00	572,00	✔	33,79 €
CD2367	4,00	36,00	18,50	250,00	3,69	156,00	572,00	-	34,75 €
CD2368	4,00	44,00	3,50	71,00	10,02	45,80	458,00	✔	33,79 €
CD2369	4,00	44,00	5,50	105,00	6,36	69,90	458,00	-	33,79 €
CD2370	4,00	44,00	8,50	160,00	4,11	110,00	458,00	-	34,20 €
CD2371	4,00	44,00	12,50	235,00	2,80	165,00	458,00	-	34,85 €
CD2372	4,00	44,00	18,50	340,00	1,89	240,00	458,00	-	34,85 €

**Depending on availability - Dimensions in mm*

Part number	Wire Ød	External ØDo	N° active coils	Free length Lo	Rate C N/mm	Max. deflection Sn (mm)	Max. load Fn (N)	Stock*	Price each 1 to 4
CD2373	4,00	44,00	18,50	340,00	1,89	240,00	458,00	-	33,79 €
CD2374	4,00	54,00	3,50	99,00	5,11	71,60	367,00	-	33,79 €
CD2375	4,00	54,00	5,50	150,00	3,26	111,00	367,00	-	34,20 €
CD2376	4,00	54,00	8,50	230,00	2,10	175,00	367,00	-	34,85 €
CD2377	4,00	54,00	12,50	335,00	1,43	257,00	367,00	-	35,94 €
CD2378	4,00	54,00	18,50	490,00	0,97	379,00	367,00	-	33,79 €
CD2379	5,00	30,00	3,50	41,00	100,23	13,40	1348,00	-	33,79 €
CD2380	5,00	30,00	5,50	60,00	63,59	21,50	1348,00	-	34,70 €
CD2381	5,00	30,00	8,50	87,50	41,11	32,60	1348,00	-	34,70 €
CD2382	5,00	30,00	12,50	125,00	27,99	48,30	1348,00	-	37,17 €
CD2383	5,00	30,00	18,50	180,00	18,87	71,00	1348,00	-	33,79 €
CD2384	5,00	37,00	3,50	51,00	47,59	22,30	1053,00	✔	34,70 €
CD2385	5,00	37,00	5,50	75,00	30,31	34,80	1053,00	-	34,70 €
CD2386	5,00	37,00	8,50	110,00	19,63	52,50	1053,00	-	35,10 €
CD2387	5,00	37,00	12,50	160,00	13,30	79,50	1053,00	-	37,03 €
CD2388	5,00	37,00	18,50	230,00	9,01	115,00	1053,00	-	33,79 €
CD2389	5,00	45,00	3,50	64,00	24,34	34,40	843,00	-	34,75 €
CD2390	5,00	45,00	5,50	95,50	15,49	54,40	843,00	-	35,10 €
CD2391	5,00	45,00	8,50	140,00	10,02	81,60	843,00	-	36,13 €
CD2392	5,00	45,00	12,50	205,00	6,82	124,00	843,00	-	37,48 €
CD2393	5,00	45,00	18,50	300,00	4,60	184,00	843,00	-	34,75 €
CD2394	5,00	55,00	3,50	85,00	12,46	54,10	674,00	-	34,75 €
CD2395	5,00	55,00	5,50	130,00	7,94	86,80	674,00	-	36,13 €
CD2396	5,00	55,00	8,50	195,00	5,14	133,00	674,00	-	37,17 €
CD2397	5,00	55,00	12,50	280,00	3,50	194,00	674,00	-	38,62 €
CD2398	5,00	55,00	18,50	410,00	2,36	287,00	674,00	-	34,75 €
CD2399	5,00	68,00	3,50	120,00	6,24	87,70	535,00	-	35,10 €
CD2400	5,00	68,00	5,50	180,00	3,98	135,00	535,00	-	37,48 €
CD2401	5,00	68,00	8,50	275,00	2,57	210,00	535,00	-	37,49 €
CD2402	5,00	68,00	12,50	395,00	1,74	304,00	535,00	-	40,71 €
CD2403	5,00	68,00	18,50	585,00	1,18	455,00	535,00	-	34,70 €
CD2404	6,30	38,30	3,50	50,00	120,40	15,00	1990,00	-	34,70 €
CD2405	6,30	38,30	5,50	75,00	76,50	26,00	1990,00	-	37,48 €
CD2406	6,30	38,30	8,50	110,00	49,60	41,00	1990,00	-	37,49 €
CD2407	6,30	38,30	12,50	155,00	32,70	58,00	1990,00	-	39,56 €
CD2408	6,30	38,30	18,50	225,00	22,80	88,00	1990,00	-	34,70 €
CD2409	6,30	46,30	3,50	60,00	61,60	24,00	1590,00	-	36,13 €
CD2410	6,30	46,30	5,50	90,00	39,20	40,00	1590,00	-	37,03 €
CD2411	6,30	46,30	8,50	135,00	25,30	63,00	1590,00	-	39,20 €
CD2412	6,30	46,30	12,50	195,00	17,30	95,00	1590,00	-	42,03 €
CD2413	6,30	46,30	18,50	280,00	11,60	137,00	1590,00	-	34,70 €
CD2414	6,30	56,30	3,50	80,00	31,50	42,00	1270,00	-	37,49 €
CD2415	6,30	56,30	5,50	115,00	20,00	62,00	1270,00	-	38,49 €
CD2416	6,30	56,30	8,50	175,00	13,00	100,00	1270,00	-	40,71 €
CD2417	6,30	56,30	12,50	250,00	8,90	145,00	1270,00	-	42,01 €

*Depending on availability - Dimensions in mm

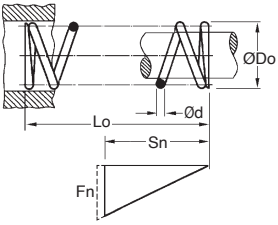
Compression spring DIN 2095

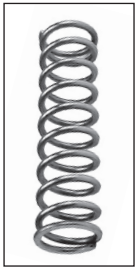
CD Ø6,3-Ø10

Stainless steel piano wire

- ***Material :***
  Piano springs: Stainless steel conforming to DIN17224, Stainless steel XCrNi7
- *Right hand wound*
- *Ends:*
  Wire ≤ 0.8mm squared, not ground
  Wire > 0.8mm, squared and ground
- *Operating temperature : 60°C max*
- *These springs are recommended for static or medium dynamic loads*
- *Tolerances: All the dimensions and load values given conform to DIN2095 (Grade 2)*

25+ pieces Contact us





Info.

- *These springs are not preset*
- *Free length Lo will reduce slightly af first operations under load*
- *For custom made springs, please contact us (Minimum quantity may apply)*

DISCOUNTS

Qty	1+	5+	10+	25+
Disc.	List	-5%	-20%	On request

Part number	Wire Ød	External Ø Do	N° active coils	Free length Lo	Rate C N/mm	Max. deflection Sn (mm)	Max. load Fn (N)	Price each 1 to 4
CD2418	6,30	56,30	18,50	365,00	5,90	215,00	1270,00	37,49 €
CD2419	6,30	69,30	3,5	105,00	15,70	65,00	1010,00	38,49 €
CD2420	6,30	69,30	5,5	155,00	10,50	99,00	1010,00	40,71 €
CD2421	6,30	69,30	8,5	253,00	6,50	155,00	1010,00	41,92 €
CD2422	6,30	69,30	12,5	340,00	4,40	227,00	1010,00	44,48 €
CD2423	6,30	69,30	18,5	500,00	3,00	339,00	1010,00	38,49 €
CD2424	6,30	86,30	3,5	145,00	7,70	103,00	800,00	38,09 €
CD2425	6,30	86,30	5,5	220,00	4,90	160,00	800,00	40,66 €
CD2426	6,30	86,30	8,5	335,00	3,20	260,00	800,00	44,48 €
CD2427	6,30	86,30	12,5	490,00	2,20	370,00	800,00	47,93 €
CD2428	6,30	86,30	18,5	720,00	1,50	548,00	800,00	38,02 €
CD2429	8,00	48,00	3,5	65,00	159,00	21,00	3030,00	39,87 €
CD2430	8,00	48,00	5,5	90,00	102,20	29,00	3030,00	42,18 €
CD2431	8,00	48,00	8,5	135,00	66,10	48,00	3030,00	44,66 €
CD2432	8,00	48,00	12,5	190,00	44,70	68,00	3030,00	46,41 €
CD2433	8,00	48,00	18,5	275,00	30,10	101,00	3030,00	41,84 €
CD2434	8,00	58,00	3,5	75,00	81,90	30,00	2425,00	39,83 €
CD2435	8,00	58,00	5,5	110,00	52,20	46,00	2425,00	43,39 €
CD2436	8,00	58,00	8,5	160,00	33,70	70,00	2425,00	44,65 €
CD2437	8,00	58,00	12,5	230,00	22,90	103,00	2425,00	48,44 €

Dimensions in mm

Part number	Wire Ød	External Ø Do	N° active coils	Free length Lo	Rate C N/mm	Max. deflection Sn (mm)	Max. load Fn (N)	Price each 1 to 4
CD2438	8,00	71,00	3,50	95,00	41,00	48,00	1920,00	40,71 €
CD2439	8,00	71,00	5,50	140,00	26,00	74,00	1920,00	42,01 €
CD2440	8,00	71,00	8,50	205,00	16,80	112,00	1920,00	44,98 €
CD2441	8,00	71,00	12,50	300,00	11,40	169,00	1920,00	47,83 €
CD2442	8,00	71,00	18,50	435,00	8,00	248,00	1920,00	74,57 €
CD2443	8,00	88,00	3,50	125,00	19,90	76,00	1515,00	42,01 €
CD2444	8,00	88,00	5,50	180,00	12,70	111,00	1515,00	44,98 €
CD2445	8,00	88,00	8,50	285,00	8,30	186,00	1515,00	46,00 €
CD2446	8,00	88,00	12,50	410,00	5,60	271,00	1515,00	53,38 €
CD2447	8,00	88,00	18,50	600,00	3,80	401,00	1515,00	116,46 €
CD2448	8,00	108,00	3,50	170,00	10,20	118,00	1210,00	43,78 €
CD2449	8,00	108,00	5,50	260,00	6,50	187,00	1210,00	44,48 €
CD2450	8,00	108,00	8,50	390,00	4,20	286,00	1210,00	48,19 €
CD2451	8,00	108,00	12,50	570,00	2,80	423,00	1210,00	100,95 €
CD2452	8,00	108,00	18,50	835,00	2,00	625,00	1210,00	153,39 €
CD2453	10,00	60,00	3,50	75,00	200,00	20,00	4470,00	39,69 €
CD2454	10,00	60,00	5,50	110,00	127,00	34,00	4470,00	44,40 €
CD2455	10,00	60,00	8,50	165,00	82,20	56,00	4470,00	46,91 €
CD2456	10,00	60,00	12,50	230,00	55,90	78,00	4470,00	53,04 €
CD2457	10,00	60,00	18,50	335,00	37,80	118,00	4470,00	96,37 €
CD2458	10,00	73,00	3,50	96,00	99,60	39,00	3540,00	43,78 €
CD2459	10,00	73,00	5,50	135,00	63,60	56,00	3540,00	44,98 €
CD2460	10,00	73,00	8,50	200,00	41,10	88,00	3540,00	50,02 €
CD2461	10,00	73,00	12,50	285,00	28,00	120,00	3540,00	83,82 €
CD2462	10,00	73,00	18,50	410,00	18,90	185,00	3540,00	118,92 €
CD2463	10,00	90,00	3,50	115,00	49,00	56,00	2790,00	44,48 €
CD2464	10,00	90,00	5,50	175,00	30,90	92,00	2790,00	48,19 €
CD2465	10,00	90,00	8,50	255,00	20,10	136,00	2790,00	79,83 €
CD2466	10,00	90,00	12,50	370,00	13,70	203,00	2790,00	101,27 €
CD2467	10,00	90,00	18,50	540,00	9,30	302,00	2790,00	144,21 €
CD2468	10,00	110,00	3,50	150,00	24,90	87,00	2230,00	46,25 €
CD2469	10,00	110,00	5,50	230,00	16,30	141,00	2230,00	46,42 €
CD2470	10,00	110,00	8,50	345,00	10,30	217,00	2230,00	93,61 €
CD2471	10,00	110,00	12,50	500,00	7,00	320,00	2230,00	118,92 €
CD2472	10,00	110,00	18,50	730,00	4,70	472,00	2230,00	153,39 €
CD2473	10,00	135,00	3,50	205,00	12,80	138,00	1790,00	50,02 €
CD2474	10,00	135,00	5,50	315,00	8,20	220,00	1790,00	83,82 €
CD2475	10,00	135,00	8,50	475,00	5,20	338,00	1790,00	118,92 €
CD2476	10,00	135,00	12,50	690,00	3,60	497,00	1790,00	144,21 €
CD2477	10,00	135,00	18,50	1015,00	2,40	738,00	1790,00	153,39 €

Dimensions in mm

Conical compression spring

CDC
Ø0,3-Ø1,2

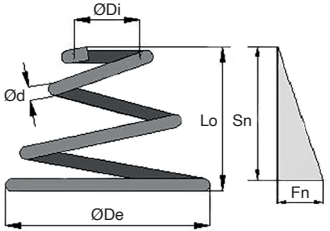
Stainless steel piano wire

- ***Cone shaped compression spring***
- *Very low height under load*
- *Almost uniform stiffness*
- *Right-hand wound*
- *Materials:*
  Stainless steel 1.4310 (301)



Advantages

- *Long stroke*
- *Height when under load is lower than a conventional spring*
- *Almost constant stiffness*



DISCOUNTS

Qty	1+	5+	10+	25+	50+
Disc.	Net	-5%	-20%	-40%	On request

Part number	Wire dia ød	N°of coils	Min ext dia øDi	Max ext dia øDe	No load length Lo	length under load	Max load	Price each 1 to 4
CDC001/SS	0,30	5,00	1,80	6,00	6,00	0,30	2,60	13,60 €
CDC002/SS	0,30	6,00	1,80	6,00	9,00	0,30	2,50	13,60 €
CDC003/SS	0,30	7,20	1,80	6,00	12,00	1,00	3,50	13,60 €
CDC004/SS	0,30	3,30	2,70	6,00	3,00	0,30	1,70	13,60 €
CDC005/SS	0,30	5,00	2,70	6,00	6,00	0,60	1,30	13,60 €
CDC006/SS	0,30	6,20	2,70	6,00	9,00	0,90	1,60	13,60 €
CDC007/SS	0,40	5,00	2,40	8,00	8,00	0,40	5,00	13,60 €
CDC008/SS	0,40	6,00	2,40	8,00	12,00	0,40	5,50	13,60 €
CDC009/SS	0,40	8,00	2,40	8,00	16,00	1,60	6,40	13,60 €
CDC010/SS	0,40	3,50	3,50	8,00	4,00	0,40	2,90	13,60 €
CDC011/SS	0,40	4,60	3,50	8,00	8,00	0,40	2,90	13,60 €
CDC012/SS	0,40	6,50	3,50	8,00	12,00	1,80	3,60	13,60 €

Dimensions in mm

DISCOUNTS

Qty	1+	5+	10+	25+	50+
Disc.	Net	-5%	-20%	-40%	On request

Part number	Wire dia ød	N°of coils	Min ext dia øDi	Max ext dia øDe	No load length Lo	length under load	Max load	Price each 1 to 4
CDC013/SS	0,50	5,00	2,00	9,00	8,00	15,00	0,50	13,60 €
CDC014/SS	0,50	5,00	3,00	10,00	10,00	13,00	0,50	13,60 €
CDC015/SS	0,50	6,50	3,00	10,00	15,00	13,00	1,20	13,60 €
CDC016/SS	0,50	7,50	3,00	10,00	20,00	13,00	1,50	13,60 €
CDC017/SS	0,50	3,50	4,50	10,00	5,00	4,00	0,50	13,60 €
CDC018/SS	0,50	4,50	4,50	10,00	10,00	6,00	0,50	13,60 €
CDC019/SS	0,50	6,00	4,50	10,00	15,00	6,00	1,80	13,60 €
CDC020/SS	0,60	5,00	2,50	11,00	10,00	17,00	0,60	13,60 €
CDC021/SS	0,60	5,00	3,50	12,00	12,00	15,00	0,60	13,60 €
CDC022/SS	0,60	6,50	3,50	12,00	18,00	15,00	1,50	13,60 €
CDC023/SS	0,60	7,50	3,50	12,00	24,00	15,00	1,80	13,60 €
CDC024/SS	0,60	3,30	5,40	12,00	6,00	7,00	0,60	13,60 €
CDC025/SS	0,60	4,75	5,40	12,00	12,00	8,00	0,60	13,60 €
CDC026/SS	0,60	6,00	5,40	12,00	18,00	8,00	2,10	13,60 €
CDC027/SS	0,75	5,00	3,00	13,00	12,00	29,00	0,75	13,88 €
CDC028/SS	0,75	5,00	4,50	15,00	15,00	19,00	1,80	13,88 €
CDC029/SS	0,75	6,50	4,50	15,00	22,00	19,00	1,80	13,88 €
CDC030/SS	0,75	7,50	4,50	15,00	30,00	19,00	2,20	13,88 €
CDC031/SS	0,75	4,00	6,50	15,00	8,00	10,00	0,75	13,88 €
CDC032/SS	0,75	4,50	6,50	15,00	15,00	15,00	0,75	13,88 €
CDC033/SS	0,75	5,70	6,50	15,00	22,00	15,00	3,00	13,88 €
CDC034/SS	1,00	5,00	4,00	18,00	15,00	49,00	1,00	13,88 €
CDC035/SS	1,00	5,00	6,00	20,00	20,00	37,00	1,00	13,88 €
CDC036/SS	1,00	6,50	6,00	20,00	30,00	37,00	2,50	13,88 €
CDC037/SS	1,00	7,50	6,00	20,00	40,00	37,00	3,00	13,88 €
CDC038/SS	1,00	3,30	9,00	20,00	10,00	22,00	1,00	13,88 €
CDC039/SS	1,00	4,50	9,00	20,00	20,00	22,00	1,00	13,88 €
CDC040/SS	1,00	5,70	9,00	20,00	30,00	26,00	2,50	13,88 €
CDC041/SS	1,20	5,00	5,00	22,00	20,00	68,00	1,20	14,23 €
CDC042/SS	1,20	5,00	7,00	25,00	25,00	54,00	1,20	14,23 €
CDC043/SS	1,20	6,50	7,00	25,00	38,00	54,00	2,80	14,23 €
CDC044/SS	1,20	7,50	7,00	25,00	50,00	54,00	3,60	14,23 €
CDC045/SS	1,20	3,50	11,00	25,00	13,00	22,00	1,20	14,23 €
CDC046/SS	1,20	4,00	11,00	25,00	25,00	36,00	1,20	14,23 €
CDC047/SS	1,20	5,50	11,00	25,00	38,00	36,00	2,20	14,23 €

Dimensions in mm

Conical compression spring

CDC Ø1,5-Ø2,5

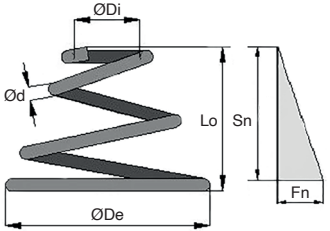
Stainless steel piano wire

- ***Cone shaped compression spring***
- *Very low height under load*
- *Almost uniform stiffness*
- *Right-hand wound*
- *Materials:*
  Stainless steel 1.4310 (301)



Advantages

- *Long stroke*
- *Height when under load is lower than a conventional spring*
- *Almost constant stiffness*



DISCOUNTS

Qty	1+	5+	10+	25+	50+
Disc.	Net	-5%	-20%	-40%	On request

Part number	Wire dia ød	N°of coils	Min ext dia øDi	Max ext dia øDe	No load length Lo	Length under load	Max load	Price each 1 to 4
CDC052/SS	1,50	3,50	13,00	30,00	15,00	1,50	35,00	14,23 €
CDC053/SS	1,50	4,50	13,00	30,00	30,00	1,50	56,00	14,23 €
CDC054/SS	1,50	5,50	13,00	30,00	45,00	3,30	56,00	14,23 €
CDC055/SS	1,80	5,50	7,00	32,00	30,00	1,80	156,00	14,23 €
CDC056/SS	1,80	5,50	11,00	35,00	35,00	1,80	117,00	14,23 €
CDC057/SS	1,80	7,00	11,00	35,00	52,00	4,50	117,00	14,23 €
CDC058/SS	1,80	8,00	11,00	35,00	70,00	5,40	117,00	14,23 €
CDC059/SS	1,80	3,50	16,00	35,00	18,00	1,80	45,00	14,23 €
CDC060/SS	1,80	4,30	16,00	35,00	35,00	1,80	80,00	14,23 €
CDC061/SS	1,80	6,00	16,00	35,00	52,00	3,60	90,00	14,23 €
CDC063/SS	2,00	5,50	12,00	40,00	45,00	2,00	147,00	14,23 €
CDC064/SS	2,00	7,00	12,00	40,00	68,00	5,00	147,00	14,23 €

Dimensions in mm

DISCOUNTS

Qty	1+	5+	10+	25+	50+
Disc.	Net	-5%	-20%	-40%	On request

Part number	Wire dia ød	N°of coils	Min ext dia øDi	Max ext dia øDe	No load length Lo	Length under load	Max load	Price each 1 to 4
CDC065/SS	2,00	8,00	12,00	40,00	90,00	147,00	6,00	14,23 €
CDC066/SS	2,00	3,60	18,00	40,00	22,00	60,00	2,00	14,23 €
CDC067/SS	2,00	4,70	18,00	40,00	45,00	90,00	2,00	14,23 €
CDC068/SS	2,00	6,50	18,00	40,00	68,00	120,00	4,00	14,69 €
CDC069/SS	2,00	7,50	18,00	40,00	90,00	120,00	6,00	14,69 €
CDC070/SS	2,50	5,00	10,00	45,00	40,00	310,00	2,50	14,69 €
CDC071/SS	2,50	5,00	15,00	50,00	50,00	200,00	2,50	14,69 €
CDC072/SS	2,50	6,60	15,00	50,00	75,00	200,00	6,30	14,69 €
CDC073/SS	2,50	7,50	15,00	50,00	100,00	200,00	7,50	14,69 €
CDC074/SS	2,50	4,50	22,00	50,00	25,00	60,00	2,50	14,69 €
CDC075/SS	2,50	4,50	22,00	50,00	50,00	140,00	2,50	14,69 €
CDC076/SS	2,50	6,50	22,00	50,00	75,00	190,00	6,30	14,69 €

Dimensions in mm

Compression springs by the metre

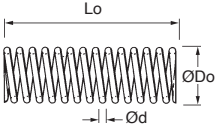
Sta Ste Stock

D19-D29 Ø0,4-Ø3,2

Steel or stainless steel piano wire

- ***Spring to be cut to desired length***
- *Length each: 1000mm*
- *Materials:*
  Steel piano wire
  In accordance with DIN 17223
  Class C. No 1,1200
  Stainless steel in accordance with
  DIN 17224 No 1,4310
  (Stainless steel 302 AMS)





DISCOUNTS

Qty	1+	6+	+10
Disc.	List	-10%	On request

Part number		Outside Ø	Wire Ø	Free length	Max. load (N)		Stock*		Price each 1 to 5	
Steel	Stainless	Do	d	Lo	Steel	Stainless	Steel	Stainless	Steel	Stainless
D19000	D29000	2,40	0,40	1000	11,24	9,65	✔	✔	30,87 €	32,72 €
D19010	D29010	3,60	0,40	1000	4,90	4,25	-	✔	30,87 €	32,72 €
D19020	D29020	3,70	0,50	1000	18,46	10,91	✔	✔	30,87 €	32,72 €
D19030	D29030	4,50	0,50	1000	9,90	8,56	✔	✔	30,87 €	32,72 €
D19040	D29040	4,63	0,63	1000	19,30	16,57	✔	✔	30,87 €	32,72 €
D19050	D29050	5,63	0,63	1000	9,60	8,25	✔	✔	30,87 €	32,72 €
D19060	D29060	5,80	0,80	1000	29,20	25,04	✔	✔	32,21 €	34,77 €
D19070	D29070	7,10	0,80	1000	14,10	12,41	✔	✔	32,21 €	34,77 €
D19080	D29080	7,30	1,00	1000	34,20	29,34	✔	✔	31,31 €	34,14 €
D19090	D29090	9,00	1,00	1000	30,00	22,24	✔	✔	31,31 €	34,14 €
D19100	D29100	9,25	1,25	1000	85,00	72,99	✔	✔	32,21 €	34,52 €
D19110	D29110	11,25	1,25	1000	57,30	49,19	✔	✔	32,21 €	34,52 €
D19120	D29120	11,60	1,60	1000	129,60	111,30	✔	✔	32,65 €	33,17 €
D19130	D29130	14,10	1,60	1000	78,20	67,19	✔	✔	32,65 €	33,17 €
D19140	D29140	14,50	2,00	1000	207,00	177,80	✔	✔	32,70 €	35,90 €
D19150	D29150	18,00	2,00	1000	144,00	123,70	✔	✔	32,70 €	35,90 €
D19160	D29160	15,00	2,20	1000	166,00	142,60	-	-	34,14 €	44,09 €
D19170	D29170	24,00	2,20	1000	166,60	143,10	✔	-	34,14 €	44,09 €
D19180	D29180	18,50	2,50	1000	301,70	259,10	✔	✔	34,52 €	50,16 €
D19190	D29190	22,50	2,50	1000	200,70	172,30	✔	✔	34,52 €	50,16 €
D19200	D29200	20,00	2,80	1000	363,60	312,30	✔	-	35,71 €	58,38 €
D19210	D29210	30,00	2,80	1000	202,10	173,60	✔	✔	35,71 €	58,38 €
D19220	D29220	28,20	3,20	1000	251,70	216,20	✔	✔	35,90 €	63,89 €
D19230	D29230	35,20	3,20	1000	230,60	198,10	✔	✔	35,90 €	63,89 €

**Depending on availability - Dimensions in mm*

Extension spring by the metre

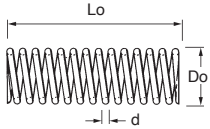
Steel or stainless steel piano wire

T39-T49
Ø0,4-Ø3,2

- ***Spring to be cut to desired length***
- *Length each: 1000mm*
- *Materials:*
  Steel piano wire conforming to DIN 17223 Class C No 1.1200
  Stainless steel piano wire conforming to DIN 17224 No 1.4310 (Stainless steel 302 AMS)



steel or stainless steel



DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-10%	On request

Part number		Ø Outside	Wire Ø	Free length	Stock*		Price each 1 to 5	
Steel	S/steel	Do	d	Lo	Steel	S/steel	Steel	S/steel
T39000	T49000	2,40	0,40	1000	✔	✔	35,67 €	35,90 €
T39010	T49010	3,40	0,40	1000	-	✔	35,67 €	35,90 €
T39020	T49020	3,50	0,50	1000	✔	✔	37,28 €	40,81 €
T39030	T49030	5,50	0,50	1000	✔	✔	37,28 €	40,81 €
T39040	T49040	4,53	0,63	1000	✔	✔	40,37 €	44,10 €
T39050	T49050	7,03	0,63	1000	✔	✔	40,37 €	44,10 €
T39060	T49060	5,50	0,80	1000	-	✔	40,81 €	50,26 €
T39070	T49070	9,00	0,80	1000	✔	✔	40,81 €	50,26 €
T39080	T49080	7,00	1,00	1000	-	✔	44,10 €	51,89 €
T39090	T49090	11,00	1,00	1000	✔	✔	44,10 €	51,89 €
T39100	T49100	8,55	1,25	1000	✔	-	49,36 €	63,13 €
T39110	T49110	13,05	1,25	1000	✔	-	49,36 €	63,13 €
T39120	T49120	11,00	1,60	1000	✔	-	52,36 €	63,68 €
T39130	T49130	17,00	1,60	1000	✔	✔	52,36 €	63,68 €
T39140	T49140	14,00	2,00	1000	✔	-	54,06 €	69,99 €
T39150	T49150	22,00	2,00	1000	✔	-	54,06 €	69,99 €
T39160	T49160	15,00	2,20	1000	✔	-	60,22 €	68,08 €
T39170	T49170	24,00	2,20	1000	-	-	60,22 €	68,08 €
T39180	T49180	18,00	2,50	1000	✔	✔	63,89 €	74,79 €
T39190	T49190	28,00	2,50	1000	-	-	63,89 €	74,79 €
T39200	T49200	20,00	2,80	1000	✔	-	68,84 €	75,40 €
T39210	T49210	30,00	2,80	1000	✔	-	68,84 €	75,40 €
T39220	T49220	22,00	3,20	1000	-	-	72,37 €	83,22 €
T39230	T49230	36,00	3,20	1000	✔	-	72,37 €	83,22 €

**Depending on availability - Dimensions in mm*

Extension springs DIN 2097

ET Ø0,5-Ø0,8

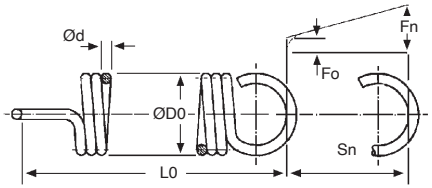
Stainless steel piano wire

- ***Materials:***
  Piano springs: Stainless steel conforming to DIN17224, Stainless steel 12CrNi17.7
- *Ends: Closed German loops conforming to DIN 2097. Position may vary.*
- *Tolerances: All the dimensions and load values given conform to DIN2097 (Grade 2)*
- *Initial tension Fo = Max load x 0.08*
- *These springs are recommended for static or medium dynamic loads*



Info.

- *Springs should not be stretched greater than the maximum elongation value or permanent damage may result.*
- *For custom made springs, please contact us (Minimum quantity may apply)*



DISCOUNTS

Qty	1+	5+	25+	50+	100+
Disc.	List	-10%	-20%	-30%	On request

Part number	Wire Ød	External Ø D0	Free length L0	Rate C N/mm	Max. deflection (mm)	Max. load (N)	Stock*	Price each 1 to 4
ET4080	0,50	2,50	7,90	6,85	1,70	14,00	✔	12,01 €
ET4081	0,50	2,50	10,90	4,28	2,70	14,00	-	12,01 €
ET4082	0,50	2,50	15,40	2,74	4,30	14,00	-	12,01 €
ET4083	0,50	3,50	9,50	2,02	4,30	10,00	✔	12,01 €
ET4084	0,50	3,50	12,50	1,26	6,90	10,00	✔	12,01 €
ET4085	0,50	3,50	17,00	0,81	10,80	10,00	-	12,01 €
ET4086	0,50	3,50	24,50	0,51	17,30	10,00	✔	12,01 €
ET4087	0,50	3,50	290,00	0,04	210,00	10,00	-	12,01 €
ET4088	0,50	5,50	12,70	0,44	13,10	7,00	✔	12,01 €
ET4089	0,50	5,50	15,70	0,27	20,90	7,00	✔	13,15 €
ET4090	0,50	5,50	20,20	0,18	32,70	7,00	✔	12,01 €
ET4091	0,50	5,50	27,70	0,11	52,30	7,00	✔	12,01 €
ET4092	0,50	5,50	37,70	0,08	78,40	7,00	✔	12,01 €

**Depending on availability - Dimensions in mm*

Part number	Wire Ød	External Ø D0	Free length L0	Rate C N/mm	Max. deflection (mm)	Max. load (N)	Stock*	Price each 1 to 4
ET4093	0,55	2,80	8,80	7,03	2,00	16,00	-	13,97 €
ET4094	0,55	2,80	12,10	4,39	3,20	16,00	-	13,97 €
ET4095	0,55	2,80	17,00	2,81	5,00	16,00	-	13,97 €
ET4096	0,55	3,50	9,90	3,12	3,70	13,00	-	13,97 €
ET4097	0,55	3,50	13,20	1,95	5,90	13,00	-	13,97 €
ET4098	0,55	3,50	18,10	1,25	9,20	13,00	-	13,97 €
ET4099	0,55	3,50	26,40	0,77	14,70	13,00	-	13,97 €
ET4100	0,55	6,00	13,90	0,50	14,10	8,00	✔	13,97 €
ET4101	0,55	6,00	17,20	0,31	22,50	8,00	✔	13,97 €
ET4102	0,55	6,00	22,10	0,20	35,10	8,00	✔	13,97 €
ET4103	0,55	6,00	30,40	0,13	56,20	8,00	✔	13,97 €
ET4104	0,55	6,00	41,40	0,09	84,30	8,00	✔	13,38 €
ET4105	0,63	3,00	9,00	10,39	1,92	25,90	-	13,38 €
ET4106	0,63	3,00	13,50	6,45	3,00	22,00	-	13,38 €
ET4107	0,63	3,00	19,20	4,13	4,60	22,00	-	13,38 €
ET4108	0,63	4,50	12,10	2,38	5,70	15,00	✔	13,38 €
ET4109	0,63	4,50	15,90	1,49	9,00	15,00	✔	13,38 €
ET4110	0,63	4,50	21,60	0,95	14,11	15,00	✔	13,38 €
ET4111	0,63	4,50	31,00	0,60	22,60	15,00	✔	13,38 €
ET4112	0,63	7,00	16,10	0,53	16,60	10,00	✔	13,38 €
ET4113	0,63	7,00	19,90	0,33	26,60	10,00	✔	13,38 €
ET4114	0,63	7,00	25,60	0,21	41,60	10,00	✔	13,38 €
ET4115	0,63	7,00	35,00	0,14	66,50	10,00	✔	13,38 €
ET4116	0,63	7,00	47,60	0,09	99,70	10,00	✔	13,38 €
ET4117	0,70	3,50	11,10	9,53	2,40	26,00	-	13,38 €
ET4118	0,70	3,50	15,30	5,97	3,80	26,00	-	13,38 €
ET4119	0,70	3,50	21,60	3,81	5,90	26,00	-	13,38 €
ET4120	0,70	5,00	13,50	2,64	6,30	19,00	-	13,38 €
ET4121	0,70	5,00	17,70	1,65	10,00	19,00	✔	13,38 €
ET4122	0,70	5,00	24,00	1,06	15,60	19,00	-	13,38 €
ET4123	0,70	5,00	34,50	0,66	25,00	19,00	✔	13,38 €
ET4124	0,70	7,50	17,50	0,67	16,90	13,00	✔	13,38 €
ET4125	0,70	7,50	21,70	0,42	27,00	13,00	✔	13,38 €
ET4126	0,70	7,50	28,00	0,27	42,20	13,00	✔	13,97 €
ET4127	0,70	7,50	38,50	0,17	67,50	13,00	✔	13,97 €
ET4128	0,70	7,50	52,50	0,11	101,00	13,00	✔	13,97 €
ET4129	0,80	4,00	12,60	10,91	2,70	34,00	✔	13,38 €
ET4130	0,80	4,00	17,40	6,87	4,30	34,00	-	13,38 €
ET4131	0,80	4,00	24,60	4,38	6,70	34,00	-	13,38 €
ET4132	0,80	5,50	15,00	3,44	6,40	26,00	✔	13,38 €
ET4133	0,80	5,50	19,80	2,15	10,20	26,00	✔	13,38 €
ET4134	0,80	5,50	27,00	1,37	16,00	26,00	✔	13,38 €
ET4135	0,80	5,50	39,00	0,86	25,60	26,00	✔	13,38 €
ET4136	0,80	5,50	290,000	0,09	225,00	26,00	✔	17,76 €

*Depending on availability - Dimensions in mm

Extension springs DIN 2097

ET Ø0,8-Ø1

Stainless steel piano wire

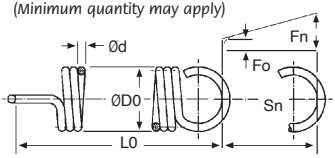
- ***Materials:***
  Piano springs: Stainless steel conforming to DIN17224, Stainless steel 12CrNi17.7
- *Ends: Closed German loops conforming to DIN 2097. Position may vary.*
- *Tolerances: All the dimensions and load values given conform to DIN2097 (Grade 2)*
- *Initial tension Fo = Max load x 0.08*
- *These springs are recommended for static or medium dynamic loads*

stainless steel



Info.

- *Springs should not be stretched greater than the maximum elongation value or permanent damage may result.*
- *For custom made springs, please contact us (Minimum quantity may apply)*



100+ pieces Contact us.

DISCOUNTS

Qty	1+	5+	25+	50+	100+
Disc.	List	-10%	-20%	-30%	On request

Part number	Wire Ød	External Ø D0	Free length L0	Rate C N/mm	Max. deflection (mm)	Max. load (N)	Stock*	Price each 1 to 4
ET4137	0,80	9,00	20,60	0,65	21,40	16,00	✔	12,81 €
ET4138	0,80	9,00	25,40	0,40	34,30	16,00	✔	12,81 €
ET4139	0,80	9,00	32,60	0,26	53,50	16,00	✔	12,81 €
ET4140	0,80	9,00	44,60	0,16	85,60	16,00	✔	12,81 €
ET4141	0,80	9,00	60,60	0,11	128,00	16,00	✔	13,38 €
ET4142	0,90	4,50	14,20	12,28	3,00	42,00	-	13,38 €
ET4143	0,90	4,50	19,60	7,70	4,70	42,00	-	13,38 €
ET4144	0,90	4,50	27,70	4,92	7,40	42,00	-	13,38 €
ET4145	0,90	6,30	17,10	3,63	7,40	31,00	-	13,38 €
ET4146	0,90	6,30	22,50	2,28	11,90	31,00	-	13,38 €
ET4147	0,90	6,30	30,60	1,46	18,60	31,00	-	13,38 €
ET4148	0,90	6,30	44,10	0,91	29,70	31,00	✔	13,38 €
ET4149	0,90	10,00	23,00	0,76	23,10	20,00	✔	13,38 €
ET4150	0,90	10,00	28,40	0,47	36,90	20,00	✔	13,38 €
ET4151	0,90	10,00	36,50	0,30	57,60	20,00	✔	13,38 €
ET4152	0,90	10,00	50,00	0,20	92,20	20,00	✔	13,38 €
ET4153	0,90	10,00	68,00	0,13	138,00	20,00	✔	13,38 €
ET4154	1,00	5,00	15,80	13,66	3,30	51,00	-	11,64 €
ET4155	1,00	5,00	21,80	8,50	5,20	51,00	✔	11,64 €
ET4156	1,00	5,00	30,80	5,47	8,10	51,00	✔	11,64 €
ET4157	1,00	7,00	19,00	4,05	8,20	38,00	✔	11,64 €
ET4158	1,00	7,00	25,00	2,53	13,10	38,00	✔	11,64 €
ET4159	1,00	7,00	34,00	1,57	20,40	38,00	✔	11,64 €

**Depending on availability - Dimensions in mm*

Extension springs DIN 2097

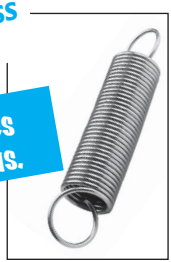
Stainless steel piano wire

ET
Ø1-Ø1,1

- ***Materials:***
  Piano springs: Stainless steel conforming to DIN17224, Stainless steel 12CrNi17.7
- *Ends: Closed German loops conforming to DIN 2097. Position may vary.*
- *Tolerances: All the dimensions and load values given conform to DIN2097 (Grade 2)*
- *Initial tension Fo = Max load x 0.08*
- *These springs are recommended for static or medium dynamic loads*

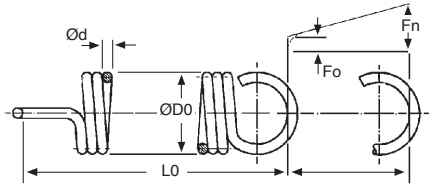
stainless steel

25+ pieces Contact us.



Info.

- *Springs should not be stretched greater than the maximum elongation value or permanent damage may result.*
- *For custom made springs, please contact us (Minimum quantity may apply)*



DISCOUNTS

Qty	1+	5+	10+	25+
Disc.	List	-5%	-20%	On request

Part number	Wire Ød	External Ø D0	Free length L0	Rate C N/mm	Max. deflection (mm)	Max. load (N)	Stock*	Price each 1 to 4
ET4160	1,00	7,00	49,00	1,01	32,70	38,00	-	8,69 €
ET4161	1,00	7,00	290,00	0,16	220,00	38,00	-	8,68 €
ET4162	1,00	11,00	25,40	0,88	24,80	25,00	✔	8,69 €
ET4163	1,00	11,00	31,40	0,55	39,60	25,00	✔	8,69 €
ET4164	1,00	11,00	40,40	0,35	61,90	25,00	✔	8,69 €
ET4165	1,00	11,00	55,40	0,22	99,00	25,00	✔	8,69 €
ET4166	1,00	11,00	75,40	0,15	149,00	25,00	✔	8,69 €
ET4167	1,10	5,50	17,40	15,03	3,50	61,00	-	8,69 €
ET4168	1,10	5,50	24,00	9,45	5,70	61,00	-	8,69 €
ET4169	1,10	5,50	33,90	6,01	8,80	61,00	-	8,69 €
ET4170	1,10	7,50	20,60	4,89	8,30	47,00	-	8,69 €
ET4171	1,10	7,50	27,20	3,05	13,30	47,00	✔	8,69 €
ET4172	1,10	7,50	37,10	1,96	20,80	47,00	✔	8,69 €
ET4173	1,10	7,50	53,60	1,22	33,20	47,00	-	8,69 €

**Depending on availability - Dimensions in mm*

Extension springs DIN 2097

ET Ø1,1-Ø1,8

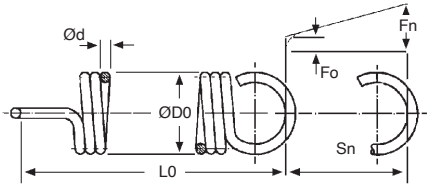
Stainless steel piano wire

- ***Materials:***
  Piano springs: Stainless steel conforming to DIN17224, Stainless steel 12CrNi17.7
- *Ends: Closed German loops conforming to DIN 2097. Position may vary.*
- *Tolerances: All the dimensions and load values given conform to DIN2097 (Grade 2)*
- *Initial tension Fo = Max load x 0.08*
- *These springs are recommended for static or medium dynamic loads*



Info.

- *Springs should not be stretched greater than the maximum elongation value or permanent damage may result.*
- *For custom made springs, please contact us (Minimum quantity may apply)*



DISCOUNTS

Qty	1+	5+	10+	25+
Disc.	List	-5%	-20%	On request

Part number	Free Wire Ød	Rate Ø D0	Max length L0	Max C N/mm	deflection (mm)	load (N)	Stock*	Price each 1 to 4
ET4174	1,10	12,00	27,80	0,99	26,40	30,00	-	8,69 €
ET4175	1,10	12,00	34,40	0,62	42,30	30,00	✔	8,69 €
ET4176	1,10	12,00	44,30	0,40	66,10	30,00	✔	8,69 €
ET4177	1,10	12,00	60,80	0,24	106,00	30,00	✔	8,69 €
ET4178	1,10	12,00	82,80	0,17	159,00	30,00	✔	8,69 €
ET4179	1,20	6,00	19,00	16,40	3,80	72,00	-	8,69 €
ET4180	1,20	6,00	26,20	10,31	6,10	72,00	-	8,69 €
ET4181	1,20	6,00	37,00	6,55	9,50	72,00	-	8,69 €
ET4182	1,20	8,50	23,00	4,66	9,90	53,00	✔	9,52 €
ET4183	1,20	8,50	30,20	2,91	15,80	53,00	✔	9,52 €
ET4184	1,20	8,50	41,00	1,86	24,60	53,00	✔	9,52 €
ET4185	1,20	8,50	59,00	1,16	39,60	53,00	-	9,52 €
ET4186	1,20	8,50	290,00	0,21	225,00	53,00	-	9,52 €

**Depending on availability - Dimensions in mm*

Part number	Free Wire Ød	Rate Ø D0	Max length L0	Max C N/mm	deflection (mm)	load (N)	Stock*	Price each 1 to 4
ET4187	1,20	13,00	30,20	1,10	27,90	36,00	-	9,52 €
ET4188	1,20	13,00	37,40	0,69	44,70	36,00	-	9,52 €
ET4189	1,20	13,00	48,20	0,44	69,80	36,00	✔	9,52 €
ET4190	1,20	13,00	66,20	0,27	112,00	36,00	✔	9,52 €
ET4191	1,20	13,00	90,20	0,18	168,00	36,00	-	9,52 €
ET4192	1,40	7,00	22,10	19,15	4,40	95,00	-	9,52 €
ET4193	1,40	7,00	30,50	11,94	7,00	95,00	-	9,52 €
ET4194	1,40	7,00	43,10	7,65	10,90	95,00	✔	9,52 €
ET4195	1,40	10,00	26,90	5,27	11,60	70,00	-	9,52 €
ET4196	1,40	10,00	35,30	3,29	18,50	70,00	-	9,52 €
ET4197	1,40	10,00	47,90	2,11	28,90	70,00	✔	9,52 €
ET4198	1,40	10,00	68,90	1,32	46,20	70,00	-	9,52 €
ET4199	1,40	10,00	290,00	0,27	220,00	70,00	-	9,52 €
ET4200	1,40	15,00	34,90	1,33	31,20	48,00	-	9,52 €
ET4201	1,40	15,00	43,30	0,83	50,00	48,00	✔	9,52 €
ET4202	1,40	15,00	55,90	0,53	78,10	48,00	✔	9,52 €
ET4203	1,40	15,00	76,90	0,33	125,00	48,00	✔	9,52 €
ET4204	1,40	15,00	105,00	0,22	187,00	48,00	✔	10,10 €
ET4205	1,60	8,00	25,30	21,82	4,90	122,00	-	9,52 €
ET4206	1,60	8,00	34,90	13,66	7,80	122,00	-	9,52 €
ET4207	1,60	8,00	49,30	8,76	12,20	122,00	✔	9,52 €
ET4208	1,60	11,00	30,10	6,91	11,70	93,00	-	9,52 €
ET4209	1,60	11,00	39,70	4,31	18,70	93,00	-	9,52 €
ET4210	1,60	11,00	54,10	2,77	29,30	93,00	✔	9,52 €
ET4211	1,60	11,00	78,10	1,73	46,80	93,00	✔	9,52 €
ET4212	1,60	17,00	39,70	1,56	34,30	63,00	-	9,05 €
ET4213	1,60	17,00	49,30	0,98	54,80	63,00	✔	9,05 €
ET4214	1,60	17,00	63,70	0,63	85,60	63,00	-	9,05 €
ET4215	1,60	17,00	87,70	0,40	137,00	63,00	✔	9,05 €
ET4216	1,60	17,00	120,00	0,26	205,00	63,00	-	9,05 €
ET4217	1,80	9,00	28,40	24,56	5,40	152,00	-	9,05 €
ET4218	1,80	9,00	39,20	15,29	8,60	152,00	-	9,05 €
ET4219	1,80	9,00	55,40	9,88	13,40	152,00	-	9,05 €
ET4220	1,80	12,00	33,20	8,67	11,90	119,00	-	9,05 €
ET4221	1,80	12,00	44,00	5,39	19,00	119,00	✔	9,05 €
ET4222	1,80	12,00	60,20	3,45	29,70	119,00	✔	9,05 €
ET4223	1,80	12,00	87,20	2,16	47,60	119,00	✔	9,05 €
ET4224	1,80	12,00	290,00	0,58	175,00	119,00	-	9,05 €
ET4225	1,80	20,00	46,00	1,53	41,90	73,00	-	9,05 €
ET4226	1,80	20,00	56,80	0,95	67,00	73,00	✔	9,05 €
ET4227	1,80	20,00	73,00	0,61	105,00	73,00	✔	9,29 €
ET4228	1,80	20,00	100,00	0,38	167,00	73,00	-	9,60 €
ET4229	1,80	20,00	136,00	0,25	251,00	73,00	-	9,60 €

*Depending on availability - Dimensions in mm

Extension springs DIN 2097

ET Ø2-Ø3,2

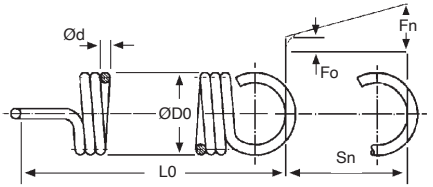
Stainless steel piano wire

- ***Materials:***
  Piano springs: Stainless steel conforming to DIN17224, Stainless steel 12CrNi17.7
- *Ends: Closed German loops conforming to DIN 2097. Position may vary.*
- *Tolerances: All the dimensions and load values given conform to DIN2097 (Grade 2)*
- *Initial tension Fo = Max load x 0.08*
- *These springs are recommended for static or medium dynamic loads*



Info.

- *Springs should not be stretched greater than the maximum elongation value or permanent damage may result.*
- *For custom made springs, please contact us (Minimum quantity may apply)*



DISCOUNTS

Qty	1+	5+	10+	25+
Disc.	List	-5%	-20%	On request

Part number	Free Wire Ød	Rate Ø D0	Max length L0	Max C N/mm	deflection (mm)	load (N)	Stock*	Price each 1 to 4
ET4230	2,00	10,00	31,60	27,31	5,90	185,00	✔	8,94 €
ET4231	2,00	10,00	43,60	17,09	9,40	185,00	-	8,94 €
ET4232	2,00	10,00	61,60	10,99	14,70	185,00	✔	8,94 €
ET4233	2,00	14,00	38,00	8,09	14,70	138,00	-	8,94 €
ET4234	2,00	14,00	50,00	5,05	23,60	138,00	-	8,94 €
ET4235	2,00	14,00	68,00	3,24	36,90	138,00	✔	8,94 €
ET4236	2,00	14,00	98,00	2,02	59,00	138,00	-	8,94 €
ET4237	2,00	22,00	50,80	1,74	44,70	90,00	-	9,10 €
ET4238	2,00	22,00	62,80	1,09	71,50	90,00	✔	9,10 €
ET4239	2,00	22,00	80,80	0,70	112,00	90,00	-	9,64 €
ET4240	2,00	22,00	111,00	0,44	179,00	90,00	✔	9,64 €
ET4241	2,00	22,00	151,00	0,29	268,00	90,00	-	9,89 €

**Depending on availability - Dimensions in mm*

Part number	Free Wire Ød	Rate Ø D0	Max length L0	Max C N/mm	deflection (mm)	load (N)	Stock*	Price each 1 to 4
ET4242	2,20	11,00	34,80	30,06	6,30	220,00	-	9,10 €
ET4243	2,20	11,00	48,00	18,81	10,10	220,00	-	9,10 €
ET4244	2,20	11,00	67,80	12,02	15,80	220,00	-	9,10 €
ET4245	2,20	15,00	41,20	9,79	14,80	168,00	✔	9,10 €
ET4246	2,20	15,00	54,40	6,10	23,70	168,00	✔	9,10 €
ET4247	2,20	15,00	74,20	3,91	37,00	168,00	-	9,10 €
ET4248	2,20	15,00	107,00	2,44	59,20	168,00	✔	9,64 €
ET4249	2,20	24,00	55,60	1,98	47,10	108,00	-	9,64 €
ET4250	2,20	24,00	68,80	1,24	75,30	108,00	-	9,64 €
ET4251	2,20	24,00	88,60	0,79	118,00	108,00	✔	9,64 €
ET4252	2,20	24,00	122,00	0,50	188,00	108,00	✔	9,64 €
ET4253	2,20	24,00	166,00	0,33	282,00	108,00	-	10,22 €
ET4254	2,50	13,00	40,30	29,46	7,80	270,00	-	9,64 €
ET4255	2,50	13,00	55,30	18,47	12,50	270,00	-	9,64 €
ET4256	2,50	13,00	77,80	11,77	19,60	270,00	-	9,64 €
ET4257	2,50	18,00	48,30	9,19	18,90	200,00	-	9,64 €
ET4258	2,50	18,00	63,30	5,73	30,30	200,00	✔	9,64 €
ET4259	2,50	18,00	85,80	3,67	47,30	200,00	✔	9,64 €
ET4260	2,50	18,00	123,00	2,29	75,70	200,00	-	9,64 €
ET4261	2,50	28,00	64,30	2,05	55,60	133,00	-	10,17 €
ET4262	2,50	28,00	79,30	1,29	88,90	133,00	-	10,17 €
ET4263	2,50	28,00	102,00	0,82	139,00	133,00	-	10,17 €
ET4264	2,50	28,00	139,00	0,52	222,00	133,00	-	10,43 €
ET4265	2,50	28,00	189,00	0,34	333,00	133,00	-	10,79 €
ET4266	2,80	14,00	44,20	38,31	7,70	340,00	-	10,17 €
ET4267	2,80	14,00	61,00	23,96	12,20	340,00	-	10,17 €
ET4268	2,80	14,00	86,20	15,37	19,10	340,00	-	10,17 €
ET4269	2,80	20,00	53,80	10,56	20,30	250,00	-	10,17 €
ET4270	2,80	20,00	70,60	6,60	32,40	250,00	✔	10,17 €
ET4271	2,80	20,00	95,80	4,22	50,60	250,00	✔	10,17 €
ET4272	2,80	20,00	138,00	2,64	81,00	250,00	-	10,17 €
ET4273	2,80	30,00	69,80	2,67	54,70	170,00	-	10,17 €
ET4274	2,80	30,00	86,60	1,67	87,60	170,00	-	10,17 €
ET4275	2,80	30,00	112,00	1,07	137,00	170,00	-	10,17 €
ET4276	2,80	30,00	154,00	0,67	219,00	170,00	-	10,79 €
ET4277	2,80	30,00	210,00	0,45	328,00	170,00	-	11,31 €
ET4278	3,20	16,00	50,60	43,72	8,50	435,00	-	10,17 €
ET4279	3,20	16,00	69,80	27,31	13,60	435,00	-	10,17 €
ET4280	3,20	16,00	98,60	17,52	21,30	435,00	-	10,17 €
ET4281	3,20	22,00	60,20	13,83	20,50	330,00	-	10,43 €
ET4282	3,20	22,00	79,40	8,59	32,70	330,00	-	10,43 €
ET4283	3,20	22,00	108,00	5,57	51,10	330,00	✔	10,43 €
ET4284	3,20	22,00	156,00	3,45	81,80	330,00	-	10,79 €

*Depending on availability - Dimensions in mm

Extension springs DIN 2097

ET Ø3,2-Ø5

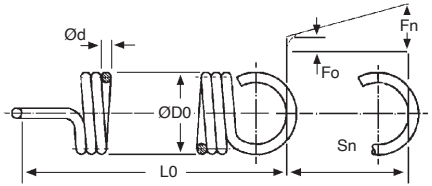
Stainless steel piano wire

- ***Materials:***
  Piano springs: Stainless steel conforming to DIN17224, Stainless steel 12CrNi17.7
- *Ends: Closed German loops conforming to DIN 2097. Position may vary.*
- *Tolerances: All the dimensions and load values given conform to DIN2097 (Grade 2)*
- *Initial tension Fo = Max load x 0.08*
- *These springs are recommended for static or medium dynamic loads*



Info.

- *Springs should not be stretched greater than the maximum elongation value or permanent damage may result.*
- *For custom made springs, please contact us (Minimum quantity may apply)*



DISCOUNTS

Qty	1+	5+	10+	25+
Disc.	List	-5%	-20%	On request

Part number	Free Wire Ød	Rate Ø D0	Max. length L0	Max. C N/mm	deflection (mm)	load (N)	Price each 1 to 4
ET4285	3,20	36,00	82,60	2,59	68,40	205,00	33,51 €
ET4286	3,20	36,00	102,00	1,62	109,00	205,00	35,16 €
ET4287	3,20	36,00	131,00	1,04	171,00	205,00	35,20 €
ET4288	3,20	36,00	179,00	0,65	274,00	205,00	37,54 €
ET4289	3,20	36,00	243,00	0,43	410,00	205,00	37,99 €
ET4290	3,60	18,00	56,90	49,13	9,40	540,00	33,79 €
ET4291	3,60	18,00	78,50	30,75	15,00	540,00	33,79 €
ET4292	3,60	18,00	111,00	19,67	23,40	540,00	34,75 €
ET4293	3,60	25,00	68,10	15,03	23,00	405,00	33,79 €
ET4294	3,60	25,00	89,70	9,36	36,80	405,00	34,75 €
ET4295	3,60	25,00	122,00	6,00	57,60	405,00	34,75 €
ET4296	3,60	25,00	176,00	3,75	92,10	405,00	35,21 €

Dimensions in mm

Part number	Free Wire Ød	Rate Ø D0	Max. length L0	Max. C N/mm	deflection (mm)	load (N)	Price each 1 to 4
ET4297	3,60	40,00	92,10	3,04	72,90	260,00	34,75 €
ET4298	3,60	40,00	114,00	1,91	117,00	260,00	34,75 €
ET4299	3,60	40,00	146,00	1,22	182,00	260,00	35,21 €
ET4300	3,60	40,00	200,00	0,76	292,00	260,00	38,22 €
ET4301	3,60	40,00	272,00	0,51	437,00	260,00	40,26 €
ET4302	4,00	20,00	63,20	54,63	10,10	650,00	34,20 €
ET4303	4,00	20,00	87,20	34,10	16,20	650,00	34,20 €
ET4304	4,00	20,00	123,00	21,82	25,30	650,00	34,20 €
ET4305	4,00	28,00	76,00	16,15	25,40	480,00	35,21 €
ET4306	4,00	28,00	100,00	10,13	40,70	480,00	35,21 €
ET4307	4,00	28,00	136,00	6,48	63,60	480,00	34,70 €
ET4308	4,00	28,00	196,00	4,05	102,00	480,00	36,13 €
ET4309	4,00	45,00	103,00	3,25	81,20	310,00	36,13 €
ET4310	4,00	45,00	127,00	2,03	130,00	310,00	36,13 €
ET4311	4,00	45,00	163,00	1,30	203,00	310,00	35,94 €
ET4312	4,00	45,00	223,00	0,81	325,00	310,00	38,29 €
ET4313	4,00	45,00	303,00	0,54	487,00	310,00	43,78 €
ET4314	4,50	22,00	70,30	66,91	10,40	810,00	36,13 €
ET4315	4,50	22,00	97,30	41,83	16,60	810,00	39,20 €
ET4316	4,50	22,00	138,00	26,80	25,90	810,00	39,20 €
ET4317	4,50	32,00	86,30	17,26	29,00	580,00	35,94 €
ET4318	4,50	32,00	113,00	10,82	46,40	580,00	35,94 €
ET4319	4,50	32,00	154,00	6,90	72,60	580,00	36,35 €
ET4320	4,50	32,00	221,00	4,30	116,00	580,00	37,49 €
ET4321	4,50	50,00	115,00	3,80	86,40	380,00	53,36 €
ET4322	4,50	50,00	142,00	2,38	138,00	380,00	53,39 €
ET4323	4,50	50,00	183,00	1,53	216,00	380,00	53,89 €
ET4324	4,50	50,00	250,00	0,95	346,00	380,00	53,60 €
ET4325	4,50	50,00	340,00	0,64	518,00	380,00	53,82 €
ET4326	5,00	25,00	79,00	68,28	11,90	940,00	42,47 €
ET4327	5,00	25,00	109,00	42,69	19,00	940,00	42,47 €
ET4328	5,00	25,00	154,00	27,31	29,70	940,00	49,55 €
ET4329	5,00	36,00	96,60	18,38	32,20	685,00	49,01 €
ET4330	5,00	36,00	127,00	11,42	51,50	685,00	49,55 €
ET4331	5,00	36,00	172,00	7,33	80,40	685,00	53,68 €
ET4332	5,00	36,00	247,00	4,59	129,00	685,00	53,60 €
ET4333	5,00	55,00	127,00	4,37	90,60	460,00	46,57 €
ET4334	5,00	55,00	157,00	2,73	145,00	460,00	46,86 €
ET4335	5,00	55,00	202,00	1,75	226,00	460,00	48,49 €
ET4336	5,00	55,00	277,00	1,10	362,00	460,00	48,44 €
ET4337	5,00	55,00	377,00	0,72	544,00	460,00	84,01 €

Dimensions in mm

Torsion spring

TO
Ø0,3-Ø0,89

Stainless steel

- Material:
  Stainless steel 302 AMS 5688
- Standard springs are right hand wound

Options

- For left hand wound springs, replace R in the part number with L
- ***Custom made springs***

Info.

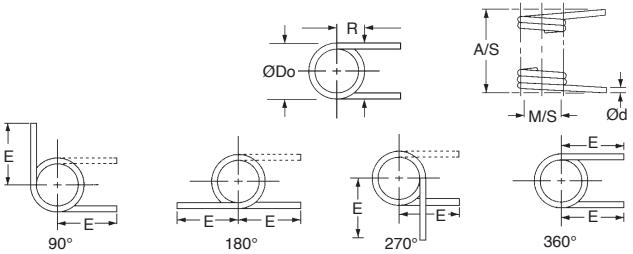
- *A/S = spring width
- Not supplied individually, contact us for details



TO-L: Left hand wound spring (Option)



TO-R: Right hand wound spring (Standard)



DISCOUNTS

Qty	1+	10+	25+	50+
Disc.	List	-15%	-45%	On request

Part number	Wire Ød	Outside Ø Do	Torque (N/mm) T	Loaded position R	M/S recommended pin ø	Leg Length E (mm)	A/S Min. axle length (mm)*	Fleet angle	Stock*	Price each 1 to 9
T0120-900-55R	**0,30**	2,36	5,31	4,75	1,40	9,52	1,17	90°	✔	12,23 €
T0121-800-67R	**0,30**	2,77	5,31	4,75	1,70	9,52	2,18	180°	-	12,23 €
T0122-700-62R	**0,30**	2,59	5,31	4,75	1,57	9,52	3,53	270°	-	12,46 €
T0121-801-09R	**0,30**	4,22	5,31	6,35	2,77	12,70	1,50	180°	✔	12,46 €
T0122-701-09R	**0,30**	4,32	5,31	6,35	2,77	12,70	2,18	270°	-	12,46 €
T0123-601-09R	**0,30**	4,42	5,31	6,35	2,77	12,70	2,81	360°	-	12,46 €

*Depending on availability - Dimensions in mm

DISCOUNTS

Qty	1+	10+	25+	50+
Disc.	List	-15%	-45%	On request

Part number	Wire Ød	Outside Ø Do	Torque (N/mm) T	Loaded position R	M/S recommended pin ø	Leg Length E (mm)	A/S Min. axle length (mm)*	Fleet angle	Stock*	Price each 1 to 9
T0170-900-93R	**0,43**	4,06	13,22	6,35	2,36	12,70	2,06	90°	✔	12,46 €
T0171-800-93R	**0,43**	4,37	13,22	6,35	2,36	12,70	3,23	180°	-	12,46 €
T0172-700-93R	**0,43**	4,06	13,22	6,35	2,36	12,70	4,88	270°	-	12,46 €
T0171-801-56R	**0,43**	6,32	13,22	9,52	3,96	19,05	2,39	180°	✔	21,25 €
T0172-701-56R	**0,43**	6,58	13,22	9,52	3,96	19,05	3,13	270°	-	21,25 €
T0173-601-40R	**0,43**	5,97	13,22	9,52	3,56	19,05	4,32	360°	-	21,25 €
T0200-901-09R	**0,51**	4,85	21,10	9,52	2,77	19,05	2,41	90°	✔	12,46 €
T0201-801-09R	**0,51**	4,55	21,10	9,52	2,77	19,05	4,32	180°	✔	12,46 €
T0202-700-93R	**0,51**	4,45	21,10	9,52	2,36	19,05	6,22	270°	-	12,46 €
T0201-801-40R	**0,51**	6,15	21,10	12,70	3,56	25,40	3,30	180°	✔	21,25 €
T0202-701-72R	**0,51**	6,81	21,10	12,70	4,37	25,40	4,19	270°	-	21,25 €
T0203-601-56R	**0,51**	6,45	21,10	12,70	3,96	25,40	6,35	360°	-	21,25 €
T0250-901-40R	**0,64**	5,97	42,40	9,52	3,56	19,05	2,44	90°	✔	12,46 €
T0251-801-40R	**0,64**	5,69	42,40	9,52	3,56	19,05	5,23	180°	✔	12,46 €
T0252-701-40R	**0,64**	5,56	42,40	9,52	3,56	19,05	8,03	270°	✔	12,46 €
T0251-802-03R	**0,64**	7,72	42,40	12,70	5,16	25,40	3,84	180°	✔	21,25 €
T0252-702-18R	**0,64**	8,64	42,40	12,70	5,54	25,40	5,23	270°	-	21,25 €
T0253-602-18R	**0,64**	8,23	42,40	12,70	5,54	25,40	7,32	360°	-	21,25 €
T0320-901-72R	**0,81**	7,32	92,70	12,70	4,34	25,40	3,86	90°	✔	21,25 €
T0321-801-56R	**0,81**	6,86	92,70	12,70	3,96	25,40	6,91	180°	-	21,25 €
T0322-701-56R	**0,81**	6,71	92,70	12,70	3,96	25,40	9,70	270°	-	21,25 €
T0321-802-18R	**0,81**	9,30	92,70	12,70	5,54	25,40	5,28	180°	✔	22,91 €
T0322-702-18R	**0,81**	8,99	92,70	12,70	5,54	25,40	7,52	270°	✔	22,91 €
T0323-602-34R	**0,81**	9,70	92,70	12,70	5,95	25,40	8,94	360°	✔	22,91 €
T0350-901-87R	**0,89**	8,00	113,00	15,88	4,75	31,75	3,43	90°	✔	21,25 €
T0351-801-87R	**0,89**	7,70	113,00	15,88	4,75	31,75	7,37	180°	✔	21,25 €
T0352-701-87R	**0,89**	7,90	113,00	15,88	4,75	31,75	11,23	270°	✔	21,25 €
T0351-802-81R	**0,89**	11,43	113,00	15,88	7,14	31,75	5,38	180°	✔	22,91 €
T0352-702-81R	**0,89**	11,05	113,00	15,88	7,14	31,75	8,33	270°	✔	22,69 €
T0353-603-12R	**0,89**	11,96	113,00	15,88	7,92	31,75	10,29	360°	✔	22,91 €

*Depending on availability - Dimensions in mm

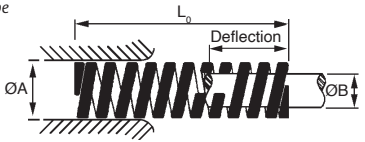
Die spring ISO 10243

R

Green: light duty

- ***ISO green standard (ISO 10243)***
- *Extra-rigid spring*
- *For light loads*
- *Trapezoidal wire*
- *Ends squared and ground*
- *Withstands shocks*
- *Tolerates shaking*
- *Easy to compress to solid height*
- *Material: chromium-vanadium steel*





Advantages

- *The trapezoidal wire permits optimum deflection whilst protecting against the risk of damage caused by overloading the spring.*
- *Hardness sufficient to allow heavy loads to be withstood.*
- *Heat resistant up to 230°C.*
- *Uniform spring performance.*
- *Uniform stiffness ratio*
- *Greater load accuracy for a given height.*
- *Reliable performance.*
- *Reduced risk of breakage.*

Option

- ***Other sizes***

IN STOCK

DISCOUNTS

Qty	1+	5+	10+	25+	50+
Disc.	List	-8%	-12%	-20%	On request

					Load table								
					Optimum life (25% free length Lo)		Long life (30% free length Lo)		Max. working (35% free length Lo)		Max. deflection		
Part number	Hole ØA (mm)	Rod ØB (mm)	Free length Lo (mm)	Load at 1 mm deflection (N)	Load (N)	Deflection (mm)	Load (N)	Deflection (mm)	Load (N)	Deflection (mm)	Load (N)	Deflection (mm)	Price each 1 to 4
R203104	10,0	5,0	25	10,0	62,5	6,3	75,0	7,5	87,5	8,8	103,0	10,3	3,13 €
R203106	10,0	5,0	38	6,8	64,6	9,5	77,5	11,4	90,4	13,3	106,1	15,6	3,55 €
R203108	10,0	5,0	51	5,0	63,8	12,8	76,5	15,3	89,3	17,9	104,5	20,9	3,80 €
R203112	10,0	5,0	76	3,2	60,8	19,0	73,0	22,8	85,1	26,6	99,8	31,2	4,61 €
R203204	12,5	6,3	25	17,9	111,9	6,3	134,3	7,5	156,6	8,8	184,4	10,3	3,67 €
R203206	12,5	6,3	38	13,6	129,2	9,5	155,0	11,4	180,9	13,3	212,2	15,6	4,35 €
R203208	12,5	6,3	51	11,4	145,4	12,8	174,4	15,3	203,5	17,9	238,3	20,9	5,01 €
R203212	12,5	6,3	76	7,1	134,9	19,0	161,9	22,8	188,9	26,6	221,5	31,2	6,29 €
R203248	12,5	6,3	305	1,4	106,8	76,3	128,1	91,5	149,5	106,8	175,0	125,0	17,41 €
R203304	16,0	8,0	25	23,4	146,8	6,3	175,5	7,5	204,8	8,8	241,0	10,3	4,25 €
R203306	16,0	8,0	38	19,3	183,4	9,5	220,0	11,4	256,7	13,3	301,1	15,6	5,01 €
R203308	16,0	8,0	51	15,7	200,2	12,8	240,2	15,3	280,2	17,9	328,1	20,9	5,75 €
R203312	16,0	8,0	76	10,0	190,0	19,0	228,0	22,8	266,0	26,6	312,0	31,2	6,98 €
R203316	16,0	8,0	102	7,8	198,9	25,5	238,7	30,6	278,5	35,7	326,0	41,8	8,08 €
R203404	20,0	10,0	25	55,8	348,8	6,3	418,5	7,5	488,3	8,8	569,2	10,2	4,61 €
R203406	20,0	10,0	38	33,3	316,4	9,5	379,6	11,4	442,9	13,3	499,5	15,0	5,29 €

**Depending on availability - Dimensions in mm*

Part number	Hole ØA (mm)	Rod ØB (mm)	Free length Lo (mm)	Load at 1 mm deflection (N)	Load table								Price each 1 to 5
					Optimum life (25% free length Lo)		Long life (30% free length Lo)		Max. working (35% free length Lo)		Max. deflection		
					Load (N)	Deflection (mm)	Load (N)	Deflection (mm)	Load (N)	Deflection (mm)	Load (N)	Deflection (mm)	
R203408	20,0	10,0	51	24,5	312,4	12,8	374,9	15,3	437,3	17,9	490,0	20,0	5,80 €
R203412	20,0	10,0	76	16,0	304,0	19,0	364,8	22,8	425,6	26,6	480,0	30,0	7,54 €
R203416	20,0	10,0	102	12,0	306,0	25,5	367,2	30,6	428,4	35,7	492,0	41,0	9,02 €
R203420	20,0	10,0	127	9,5	301,6	31,8	362,0	38,1	422,3	44,5	484,5	51,0	10,86 €
R203424	20,0	10,0	152	7,5	285,0	38,0	342,0	45,6	399,0	53,2	457,5	61,0	12,09 €
R203448	20,0	10,0	305	4,0	305,0	76,3	366,0	91,5	427,0	106,8	488,0	122,0	36,36 €
R203504	25,0	12,5	25	100,0	625,0	6,3	750,0	7,5	875,0	8,8	1020,0	10,2	5,16 €
R203505	25,0	12,5	32	80,3	642,4	8,0	770,9	9,6	899,4	11,2	1003,8	12,5	5,85 €
R203506	25,0	12,5	38	62,0	589,0	9,5	706,8	11,4	824,6	13,3	930,0	15,0	6,57 €
R203507	25,0	12,5	44	52,9	581,9	11,0	698,3	13,2	814,7	15,4	952,2	18,0	7,42 €
R203508	25,0	12,5	51	44,0	561,0	12,8	673,2	15,3	785,4	17,9	880,0	20,0	8,31 €
R203510	25,0	12,5	64	35,2	563,2	16,0	675,8	19,2	788,5	22,4	880,0	25,0	9,19 €
R203512	25,0	12,5	76	28,0	532,0	19,0	638,4	22,8	744,8	26,6	840,0	30,0	10,42 €
R203514	25,0	12,5	89	24,0	534,0	22,3	640,8	26,7	747,6	31,2	840,0	35,0	12,12 €
R203516	25,0	12,5	102	21,1	538,1	25,5	645,7	30,6	753,3	35,7	865,1	41,0	13,42 €
R203518	25,0	12,5	115	18,7	537,6	28,8	645,2	34,5	752,7	40,3	860,2	46,0	14,77 €
R203520	25,0	12,5	127	16,7	530,2	31,8	636,3	38,1	742,3	44,5	851,7	51,0	16,34 €
R203522	25,0	12,5	139	15,3	531,7	34,8	638,0	41,7	744,3	48,7	856,8	56,0	18,20 €
R203524	25,0	12,5	152	14,0	532,0	38,0	638,4	45,6	744,8	53,2	854,0	61,0	19,56 €
R203528	25,0	12,5	178	12,5	556,3	44,5	667,5	53,4	778,8	62,3	887,5	71,0	21,21 €
R203532	25,0	12,5	203	10,4	527,8	50,8	633,4	60,9	738,9	71,1	842,4	81,0	23,72 €
R203548	25,0	12,5	305	7,0	533,8	76,3	640,5	91,5	747,3	106,8	854,0	122,0	49,52 €
R203606	32,0	16,0	38	94,0	893,0	9,5	1071,6	11,4	1250,2	13,3	1410,0	15,0	8,53 €
R203607	32,0	16,0	44	79,5	874,5	11,0	1049,4	13,2	1224,3	15,4	1431,0	18,0	9,19 €
R203608	32,0	16,0	51	67,0	854,3	12,8	1025,1	15,3	1196,0	17,9	1340,0	20,0	10,16 €
R203610	32,0	16,0	64	53,0	848,0	16,0	1017,6	19,2	1187,2	22,4	1325,0	25,0	11,55 €
R203612	32,0	16,0	76	44,0	836,0	19,0	1003,2	22,8	1170,4	26,6	1320,0	30,0	13,01 €
R203616	32,0	16,0	102	32,0	816,0	25,5	979,2	30,6	1142,4	35,7	1312,0	41,0	16,37 €
R203620	32,0	16,0	127	25,0	793,8	31,8	952,5	38,1	1111,3	44,5	1275,0	51,0	21,21 €
R203624	32,0	16,0	152	21,5	817,0	38,0	980,4	45,6	1143,8	53,2	1311,5	61,0	24,69 €
R203632	32,0	16,0	203	15,8	801,9	50,8	962,2	60,9	1122,6	71,1	1279,8	81,0	31,34 €
R203648	32,0	16,0	305	10,3	785,4	76,3	942,5	91,5	1099,5	106,8	1256,6	122,0	52,69 €
R203708	40,0	20,0	51	92,0	1173,0	12,8	1407,6	15,3	1642,2	17,9	1840,0	20,0	12,09 €
R203712	40,0	20,0	76	63,0	1197,0	19,0	1436,4	22,8	1675,8	26,6	1890,0	30,0	16,93 €
R203716	40,0	20,0	102	43,0	1096,5	25,5	1315,8	30,6	1535,1	35,7	1763,0	41,0	23,11 €
R203720	40,0	20,0	127	37,0	1174,8	31,8	1409,7	38,1	1644,7	44,5	1887,0	51,0	29,57 €
R203724	40,0	20,0	152	28,0	1064,0	38,0	1276,8	45,6	1489,6	53,2	1708,0	61,0	33,88 €
R203732	40,0	20,0	203	22,7	1152,0	50,8	1382,4	60,9	1612,8	71,1	1838,7	81,0	42,47 €
R203748	40,0	20,0	305	14,8	1128,5	76,3	1354,2	91,5	1579,9	106,8	1805,6	122,0	64,96 €
R203810	50,0	25,0	64	156,0	2496,0	16,0	2995,2	19,2	3494,4	22,4	3900,0	25,0	23,26 €
R203814	50,0	25,0	89	109,0	2425,3	22,3	2910,3	26,7	3395,4	31,2	3815,0	35,0	30,51 €
R203818	50,0	25,0	115	81,0	2328,8	28,8	2794,5	34,5	3260,3	40,3	3726,0	46,0	38,55 €
R203822	50,0	25,0	139	66,5	2310,9	34,8	2773,1	41,7	3235,2	48,7	3724,0	56,0	45,55 €
R203828	50,0	25,0	178	52,0	2314,0	44,5	2776,8	53,4	3239,6	62,3	3692,0	71,0	54,20 €
R203840	50,0	25,0	254	35,0	2222,5	63,5	2667,0	76,2	3111,5	88,9	3570,0	102,0	78,20 €
R203912	63,0	38,0	76	189,0	3591,0	19,0	4309,2	22,8	5027,4	26,6	5670,0	30,0	51,36 €
R203916	63,0	38,0	102	131,0	3340,5	25,5	4008,6	30,6	4676,7	35,7	5371,0	41,0	72,28 €
R203920	63,0	38,0	127	103,0	3270,3	31,8	3924,3	38,1	4578,4	44,5	5253,0	51,0	81,10 €
R203928	63,0	38,0	178	71,5	3181,8	44,5	3818,1	53,4	4454,5	62,3	5076,5	71,0	102,27 €
R203940	63,0	38,0	254	47,0	2984,5	63,5	3581,4	76,2	4178,3	88,9	4794,0	102,0	149,65 €

*Depending on availability - Dimensions in mm

Die spring ISO 10243

R

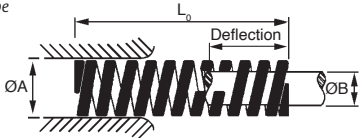
Blue: medium duty

- **ISO blue standard (ISO 10243)**
- Extra-rigid spring
- For medium loads
- Trapezoidal wire
- Ends squared and ground
- Withstands shocks
- Tolerates shaking
- Easy to compress to solid height
- Material: chromium-vanadium steel



Advantages

- The trapezoidal wire permits optimum deflection whilst protecting against the risk of damage caused by overloading the spring.
- Hardness sufficient to allow heavy loads to be withstood.
- Heat resistant up to 230°C.
- Uniform spring performance.
- Uniform stiffness ratio
- Greater load accuracy for a given height.
- Reliable performance.
- Reduced risk of breakage.



Option

- **Other sizes**

IN STOCK

DISCOUNTS

Qty	1+	5+	10+	25+	50+
Disc.	List	-8%	-12%	-20%	On request

Part number	Hole ØA (mm)	Rod ØB (mm)	Free length Lo (mm)	Load at 1 mm deflection (N)	Load table: Optimum life (25% free length Lo) Load (N)	Optimum life (25% free length Lo) Deflection (mm)	Long life (30% free length Lo) Load (N)	Long life (30% free length Lo) Deflection (mm)	Max. working (35% free length Lo) Load (N)	Max. working (35% free length Lo) Deflection (mm)	Max. deflection Load (N)	Max. deflection Deflection (mm)	Price each 1 to 4
R204104	10,0	5,0	25	16,0	80,0	5,0	100,0	6,3	120,0	7,5	152,0	9,5	3,31 €
R204106	10,0	5,0	38	11,9	90,4	7,6	113,1	9,5	135,7	11,4	171,4	14,4	3,81 €
R204108	10,0	5,0	51	8,9	90,8	10,2	113,5	12,8	136,2	15,3	172,7	19,4	4,57 €
R204112	10,0	5,0	76	5,3	80,6	15,2	100,7	19,0	120,8	22,8	153,2	28,9	5,66 €
R204204	12,5	6,3	25	30,0	150,0	5,0	187,5	6,3	225,0	7,5	285,0	9,5	3,90 €
R204206	12,5	6,3	38	21,4	162,6	7,6	203,3	9,5	244,0	11,4	308,2	14,4	4,61 €
R204208	12,5	6,3	51	15,5	158,1	10,2	197,6	12,8	237,2	15,3	300,7	19,4	5,29 €
R204212	12,5	6,3	76	10,2	155,0	15,2	193,8	19,0	232,6	22,8	294,8	28,9	6,87 €
R204248	12,5	6,3	305	2,1	128,1	61,0	160,1	76,3	192,2	91,5	243,6	116,0	24,07 €
R204304	16,0	8,0	25	49,4	247,0	5,0	308,8	6,3	370,5	7,5	469,3	9,5	5,01 €
R204306	16,0	8,0	38	33,9	257,6	7,6	322,1	9,5	386,5	11,4	488,2	14,4	5,66 €
R204308	16,0	8,0	51	26,4	269,3	10,2	336,6	12,8	403,9	15,3	512,2	19,4	6,29 €
R204312	16,0	8,0	76	17,8	270,6	15,2	338,2	19,0	405,8	22,8	514,4	28,9	7,54 €
R204316	16,0	8,0	102	13,5	275,4	20,4	344,3	25,5	413,1	30,6	523,8	38,8	8,90 €
R204404	20,0	10,0	25	98,0	490,0	5,0	612,5	6,3	735,0	7,5	921,2	9,4	5,24 €
R204406	20,0	10,0	38	56,0	425,6	7,6	532,0	9,5	638,4	11,4	784,0	14,0	6,10 €

*Depending on availability - Dimensions in mm

Part number	Hole ØA (mm)	Rod ØB (mm)	Free length Lo (mm)	Load at 1 mm deflection (N)	Load table								Price each 1 to 5
					Optimum life (25% free length Lo)		Long life (30% free length Lo)		Max. working (35% free length Lo)		Max. deflection		
					Load (N)	Deflection (mm)	Load (N)	Deflection (mm)	Load (N)	Deflection (mm)	Load (N)	Deflection (mm)	
R204408	20,0	10,0	51	41,7	425,3	10,2	531,7	12,8	638,0	15,3	792,3	19,0	6,87 €
R204412	20,0	10,0	76	25,1	381,5	15,2	476,9	19,0	572,3	22,8	702,8	28,0	8,39 €
R204416	20,0	10,0	102	19,8	403,9	20,4	504,9	25,5	605,9	30,6	752,4	38,0	10,42 €
R204420	20,0	10,0	127	16,6	421,6	25,4	527,1	31,8	632,5	38,1	796,8	48,0	12,79 €
R204424	20,0	10,0	152	13,2	401,3	30,4	501,6	38,0	601,9	45,6	752,4	57,0	14,81 €
R204504	25,0	12,5	25	147,0	735,0	5,0	918,8	6,3	1102,5	7,5	1381,8	9,4	5,19 €
R204506	25,0	12,5	38	93,0	706,8	7,6	883,5	9,5	1060,2	11,4	1302,0	14,0	7,04 €
R204507	25,0	12,5	44	80,8	711,0	8,8	888,8	11,0	1066,6	13,2	1333,2	16,5	7,99 €
R204508	25,0	12,5	51	68,6	699,7	10,2	874,7	12,8	1049,6	15,3	1303,4	19,0	8,66 €
R204510	25,0	12,5	64	53,0	678,4	12,8	848,0	16,0	1017,6	19,2	1272,0	24,0	9,82 €
R204512	25,0	12,5	76	43,2	656,6	15,2	820,8	19,0	985,0	22,8	1209,6	28,0	10,78 €
R204514	25,0	12,5	89	38,2	680,0	17,8	850,0	22,3	1019,9	26,7	1260,6	33,0	12,79 €
R204516	25,0	12,5	102	33,0	673,2	20,4	841,5	25,5	1009,8	30,6	1254,0	38,0	14,19 €
R204518	25,0	12,5	115	28,0	644,0	23,0	805,0	28,8	966,0	34,5	1204,0	43,0	15,78 €
R204520	25,0	12,5	127	25,9	657,9	25,4	822,3	31,8	986,8	38,1	1243,2	48,0	17,06 €
R204522	25,0	12,5	139	23,2	645,0	27,8	806,2	34,8	967,4	41,7	1206,4	52,0	18,96 €
R204524	25,0	12,5	152	20,8	632,3	30,4	790,4	38,0	948,5	45,6	1185,6	57,0	20,10 €
R204528	25,0	12,5	178	17,8	633,7	35,6	792,1	44,5	950,5	53,4	1192,6	67,0	21,95 €
R204532	25,0	12,5	203	15,8	641,5	40,6	801,9	50,8	962,2	60,9	1200,8	76,0	24,38 €
R204548	25,0	12,5	305	10,2	622,2	61,0	777,8	76,3	933,3	91,5	1162,8	114,0	54,62 €
R204606	32,0	16,0	38	185,0	1406,0	7,6	1757,5	9,5	2109,0	11,4	2590,0	14,0	9,33 €
R204607	32,0	16,0	44	158,0	1390,4	8,8	1738,0	11,0	2085,6	13,2	2607,0	16,5	10,42 €
R204608	32,0	16,0	51	134,0	1366,8	10,2	1708,5	12,8	2050,2	15,3	2546,0	19,0	11,34 €
R204610	32,0	16,0	64	99,0	1267,2	12,8	1584,0	16,0	1900,8	19,2	2376,0	24,0	12,79 €
R204612	32,0	16,0	76	80,5	1223,6	15,2	1529,5	19,0	1835,4	22,8	2254,0	28,0	13,90 €
R204616	32,0	16,0	102	58,8	1199,5	20,4	1499,4	25,5	1799,3	30,6	2234,4	38,0	17,94 €
R204620	32,0	16,0	127	44,8	1137,9	25,4	1422,4	31,8	1706,9	38,1	2150,4	48,0	23,93 €
R204624	32,0	16,0	152	37,8	1149,1	30,4	1436,4	38,0	1723,7	45,6	2154,6	57,0	26,82 €
R204632	32,0	16,0	203	28,9	1173,3	40,6	1466,7	50,8	1760,0	60,9	2196,4	76,0	33,40 €
R204648	32,0	16,0	305	18,3	1116,3	61,0	1395,4	76,3	1674,5	91,5	2086,2	114,0	60,99 €
R204708	40,0	20,0	51	181,6	1852,3	10,2	2315,4	12,8	2778,5	15,3	3450,4	19,0	13,34 €
R204712	40,0	20,0	76	108,0	1641,6	15,2	2052,0	19,0	2462,4	22,8	3024,0	28,0	17,71 €
R204716	40,0	20,0	102	81,0	1652,4	20,4	2065,5	25,5	2478,6	30,6	3078,0	38,0	24,87 €
R204720	40,0	20,0	127	62,7	1592,6	25,4	1990,7	31,8	2388,9	38,1	3009,6	48,0	31,57 €
R204724	40,0	20,0	152	51,6	1568,6	30,4	1960,8	38,0	2353,0	45,6	2941,2	57,0	35,29 €
R204732	40,0	20,0	203	36,7	1490,0	40,6	1862,5	50,8	2235,0	60,9	2789,2	76,0	44,66 €
R204748	40,0	20,0	305	24,6	1500,6	61,0	1875,8	76,3	2250,9	91,5	2804,4	114,0	73,37 €
R204810	50,0	25,0	64	209,0	2675,2	12,8	3344,0	16,0	4012,8	19,2	5016,0	24,0	25,81 €
R204814	50,0	25,0	89	140,0	2492,0	17,8	3115,0	22,3	3738,0	26,7	4620,0	33,0	33,17 €
R204818	50,0	25,0	115	106,0	2438,0	23,0	3047,5	28,8	3657,0	34,5	4558,0	43,0	41,76 €
R204822	50,0	25,0	139	87,0	2418,6	27,8	3023,3	34,8	3627,9	41,7	4524,0	52,0	49,83 €
R204828	50,0	25,0	178	69,5	2474,2	35,6	3092,8	44,5	3711,3	53,4	4656,5	67,0	60,25 €
R204836	50,0	25,0	229	50,9	2331,2	45,8	2914,0	57,3	3496,8	68,7	4377,4	86,0	81,92 €
R204848	50,0	25,0	305	38,6	2354,6	61,0	2943,3	76,3	3531,9	91,5	4400,4	114,0	128,22 €
R204912	63,0	38,0	76	312,0	4742,4	15,2	5928,0	19,0	7113,6	22,8	8736,0	28,0	61,61 €
R204916	63,0	38,0	102	221,0	4508,4	20,4	5635,5	25,5	6762,6	30,6	8398,0	38,0	74,75 €
R204920	63,0	38,0	127	168,0	4267,2	25,4	5334,0	31,8	6400,8	38,1	8064,0	48,0	82,64 €
R204928	63,0	38,0	178	114,0	4058,4	35,6	5073,0	44,4	6087,6	53,4	7638,0	67,0	113,32 €
R204936	63,0	38,0	229	89,2	4085,4	45,8	5106,7	57,3	6128,0	68,7	7671,2	86,0	140,17 €
R204948	63,0	38,0	305	64,7	3946,7	61,0	4933,4	76,3	5920,1	91,5	7375,8	114,0	194,96 €

*Depending on availability - Dimensions in mm

Die spring ISO 10243

R

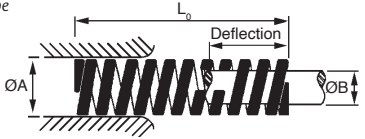
Red: heavy duty

- **ISO red standard (ISO 10243)**
- Extra-rigid spring
- For heavy loads
- Trapezoidal wire
- Ends squared and ground
- Withstands shocks
- Tolerates shaking
- Easy to compress to solid height
- Material: chromium-vanadium steel



Advantages

- The trapezoidal wire permits optimum deflection whilst protecting against the risk of damage caused by overloading the spring.
- Hardness sufficient to allow heavy loads to be withstood.
- Heat resistant up to 230°C.
- Uniform spring performance.
- Uniform stiffness ratio
- Greater load accuracy for a given height.
- Reliable performance.
- Reduced risk of breakage.



Option

- **Other sizes**

IN STOCK

DISCOUNTS

Qty	1+	5+	10+	25+	50+
Disc.	List	-8%	-12%	-20%	On request

Part number	Hole ØA (mm)	Rod ØB (mm)	Free length Lo (mm)	Load at 1 mm deflection (N)	Load table: Optimum life (25% free length Lo) Load (N)	Optimum life (25% free length Lo) Deflection (mm)	Long life (30% free length Lo) Load (N)	Long life (30% free length Lo) Deflection (mm)	Max. working (35% free length Lo) Load (N)	Max. working (35% free length Lo) Deflection (mm)	Max. deflection Load (N)	Max. deflection Deflection (mm)	Price each 1 to 4
R205104	10,0	5,0	25	22,1	82,9	3,8	110,5	5,0	138,1	6,3	165,8	7,5	3,67 €
R205106	10,0	5,0	38	17,1	97,5	5,7	130,0	7,6	162,5	9,5	194,9	11,4	4,35 €
R205108	10,0	5,0	51	12,8	97,9	7,7	130,6	10,2	163,2	12,8	195,8	15,3	4,91 €
R205112	10,0	5,0	76	7,5	85,5	11,4	114,0	15,2	142,5	19,0	171,0	22,8	6,43 €
R205204	12,5	6,3	25	42,1	157,9	3,8	210,5	5,0	263,1	6,3	315,8	7,5	4,61 €
R205206	12,5	6,3	38	29,3	167,0	5,7	222,7	7,6	278,4	9,5	334,0	11,4	5,29 €
R205208	12,5	6,3	51	19,6	149,9	7,7	199,9	10,2	249,9	12,8	299,9	15,3	5,85 €
R205212	12,5	6,3	76	13,2	150,5	11,4	200,6	15,2	250,8	19,0	301,0	22,8	7,42 €
R205248	12,5	6,3	305	2,8	128,1	45,8	170,8	61,0	213,5	76,3	256,2	91,5	35,22 €
R205304	16,0	8,0	25	75,7	283,9	3,8	378,5	5,0	473,1	6,3	567,8	7,5	5,75 €
R205306	16,0	8,0	38	48,5	276,5	5,7	368,6	7,6	460,8	9,5	552,9	11,4	6,29 €
R205308	16,0	8,0	51	37,1	283,8	7,7	378,4	10,2	473,0	12,8	567,6	15,3	6,87 €
R205312	16,0	8,0	76	25,7	293,0	11,4	390,6	15,2	488,3	19,0	586,0	22,8	8,42 €
R205316	16,0	8,0	102	19,3	295,3	15,3	393,7	20,4	492,2	25,5	590,6	30,6	9,80 €
R205404	20,0	10,0	25	216,0	810,0	3,8	1080,0	5,0	1350,0	6,3	1620,0	7,5	6,01 €
R205406	20,0	10,0	38	129,0	735,3	5,7	980,4	7,6	1225,5	9,5	1419,0	11,0	7,19 €

*Depending on availability - Dimensions in mm

Part number	Hole ØA (mm)	Rod ØB (mm)	Free length Lo (mm)	Load at 1 mm deflection (N)	Load table								Price each 1 to 5
					Optimum life (25% free length Lo)		Long life (30% free length Lo)		Max. working (35% free length Lo)		Max. deflection		
					Load (N)	Deflection (mm)	Load (N)	Deflection (mm)	Load (N)	Deflection (mm)	Load (N)	Deflection (mm)	
R205408	20,0	10,0	51	94,0	719,1	7,7	958,8	10,2	1198,5	12,8	1410,0	15,0	8,42 €
R205410	20,0	10,0	64	72,1	692,2	9,6	922,9	12,8	1153,6	16,0	1369,9	19,0	9,19 €
R205412	20,0	10,0	76	59,7	680,6	11,4	907,4	15,2	1134,3	19,0	1373,1	23,0	10,18 €
R205414	20,0	10,0	89	50,5	674,2	13,4	898,9	17,8	1123,6	22,3	1363,5	27,0	11,95 €
R205416	20,0	10,0	102	44,2	676,3	15,3	901,7	20,4	1127,1	25,5	1370,2	31,0	13,07 €
R205418	20,0	10,0	115	38,4	662,4	17,3	883,2	23,0	1104,0	28,8	1344,0	35,0	14,51 €
R205420	20,0	10,0	127	34,1	649,6	19,1	866,1	25,4	1082,7	31,8	1295,8	38,0	16,09 €
R205422	20,0	10,0	139	31,0	646,4	20,9	861,8	27,8	1077,3	34,8	1302,0	42,0	17,38 €
R205424	20,0	10,0	152	28,2	643,0	22,8	857,3	30,4	1071,6	38,0	1297,2	46,0	18,27 €
R205448	20,0	10,0	305	15,0	686,3	45,8	915,0	61,0	1143,8	76,3	1365,0	91,0	48,34 €
R205504	25,0	12,5	25	375,0	1406,3	3,8	1875,0	5,0	2343,8	6,3	2812,5	7,5	6,52 €
R205505	25,0	12,5	32	297,0	1425,6	4,8	1900,8	6,4	2376,0	8,0	2851,2	9,6	7,80 €
R205506	25,0	12,5	38	219,0	1248,3	5,7	1664,4	7,6	2080,5	9,5	2409,0	11,0	8,50 €
R205507	25,0	12,5	44	187,0	1234,2	6,6	1645,6	8,8	2057,0	11,0	2431,0	13,0	9,71 €
R205508	25,0	12,5	51	156,0	1193,4	7,7	1591,2	10,2	1989,0	12,8	2340,0	15,0	10,54 €
R205510	25,0	12,5	64	123,0	1180,8	9,6	1574,4	12,8	1968,0	16,0	2337,0	19,0	11,55 €
R205512	25,0	12,5	76	99,0	1128,6	11,4	1504,8	15,2	1881,0	19,0	2277,0	23,0	12,79 €
R205514	25,0	12,5	89	84,0	1121,4	13,4	1495,2	17,8	1869,0	22,3	2268,0	27,0	13,58 €
R205516	25,0	12,5	102	73,0	1116,9	15,3	1489,2	20,4	1861,5	25,5	2263,0	31,0	15,64 €
R205518	25,0	12,5	115	65,0	1121,3	17,3	1495,0	23,0	1868,8	28,8	2275,0	35,0	17,36 €
R205520	25,0	12,5	127	57,7	1099,2	19,1	1465,6	25,4	1832,0	31,8	2192,6	38,0	19,48 €
R205522	25,0	12,5	139	52,7	1098,8	20,9	1465,1	27,8	1831,3	34,8	2213,4	42,0	21,33 €
R205524	25,0	12,5	152	47,8	1089,8	22,8	1453,1	30,4	1816,4	38,0	2198,8	46,0	23,28 €
R205528	25,0	12,5	178	41,0	1094,7	26,7	1459,6	35,6	1824,5	44,5	2173,0	53,0	27,10 €
R205532	25,0	12,5	203	35,8	1090,1	30,5	1453,5	40,6	1816,9	50,8	2183,8	61,0	31,06 €
R205548	25,0	12,5	305	22,9	1047,7	45,8	1396,9	61,0	1746,1	76,3	2083,9	91,0	59,21 €
R205606	32,0	16,0	38	388,0	2211,6	5,7	2948,8	7,6	3686,0	9,5	4268,0	11,0	11,55 €
R205607	32,0	16,0	44	324,0	2138,4	6,6	2851,2	8,8	3564,0	11,0	4212,0	13,0	12,50 €
R205608	32,0	16,0	51	272,0	2080,8	7,7	2774,4	10,2	3468,0	12,8	4080,0	15,0	13,09 €
R205610	32,0	16,0	64	212,0	2035,2	9,6	2713,6	12,8	3392,0	16,0	4028,0	19,0	15,12 €
R205612	32,0	16,0	76	172,0	1960,8	11,4	2614,4	15,2	3268,0	19,0	3956,0	23,0	17,38 €
R205614	32,0	16,0	89	141,0	1882,4	13,4	2509,8	17,8	3137,3	22,3	3807,0	27,0	19,48 €
R205618	32,0	16,0	115	107,0	1845,8	17,3	2461,0	23,0	3076,3	28,8	3745,0	35,0	25,38 €
R205622	32,0	16,0	139	86,0	1793,1	20,9	2390,8	27,8	2988,5	34,8	3612,0	42,0	30,49 €
R205628	32,0	16,0	178	67,2	1794,2	26,7	2392,3	35,6	2990,4	44,5	3561,6	53,0	37,54 €
R205640	32,0	16,0	254	46,4	1767,8	38,1	2357,1	50,8	2946,4	63,5	3526,4	76,0	48,02 €
R205708	40,0	20,0	51	350,0	2677,5	7,7	3570,0	10,2	4462,5	12,8	5250,0	15,0	16,09 €
R205712	40,0	20,0	76	219,0	2496,6	11,4	3328,8	15,2	4161,0	19,0	5037,0	23,0	22,35 €
R205716	40,0	20,0	102	163,0	2493,9	15,3	3325,2	20,4	4156,5	25,5	5053,0	31,0	30,78 €
R205720	40,0	20,0	127	128,0	2438,4	19,1	3251,2	25,4	4064,0	31,8	4864,0	38,0	39,79 €
R205724	40,0	20,0	152	105,0	2394,0	22,8	3192,0	30,4	3990,0	38,0	4830,0	46,0	43,85 €
R205732	40,0	20,0	203	77,0	2344,7	30,5	3126,2	40,6	3907,8	50,8	4697,0	61,0	54,06 €
R205748	40,0	20,0	305	51,0	2333,3	45,8	3111,0	61,0	3888,8	76,3	4641,0	91,0	85,69 €
R205810	50,0	25,0	64	413,0	3964,8	9,6	5286,4	12,8	6608,0	16,0	7847,0	19,0	31,57 €
R205814	50,0	25,0	89	288,0	3844,8	13,4	5126,4	17,8	6408,0	22,3	7776,0	27,0	41,37 €
R205818	50,0	25,0	115	215,0	3708,8	17,3	4945,0	23,0	6181,3	28,8	7525,0	35,0	51,04 €
R205822	50,0	25,0	139	168,0	3502,8	20,9	4670,4	27,8	5838,0	34,8	7056,0	42,0	68,22 €
R205828	50,0	25,0	178	134,0	3577,8	26,7	4770,4	35,6	5963,0	44,5	7102,0	53,0	74,91 €
R205840	50,0	25,0	254	89,0	3390,9	38,1	4521,2	50,8	5651,5	63,5	6764,0	76,0	109,22 €
R205848	50,0	25,0	305	73,0	3339,8	45,8	4453,0	61,0	5566,3	76,3	6643,0	91,0	143,35 €

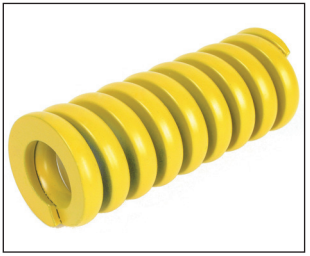
*Depending on availability - Dimensions in mm

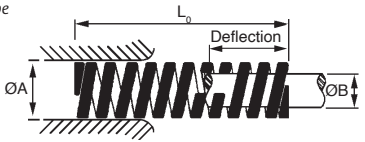
Die spring ISO 10243

R

Yellow: extra-heavy duty

- **ISO yellow standard (ISO 10243)**
- Extra-rigid spring
- For extra-heavy loads
- Trapezoidal wire
- Ends squared and ground
- Withstands shocks
- Tolerates shaking
- Easy to compress to solid height
- Material: chromium-vanadium steel





Advantages

- The trapezoidal wire permits optimum deflection whilst protecting against the risk of damage caused by overloading the spring.
- Hardness sufficient to allow heavy loads to be withstood.
- Heat resistant up to 230°C.
- Uniform spring performance.
- Uniform stiffness ratio
- Greater load accuracy for a given height.
- Reliable performance.
- Reduced risk of breakage.

Option

- **Other sizes**

IN STOCK

DISCOUNTS

Qty	1+	5+	10+	25+	50+
Disc.	List	-8%	-12%	-20%	On request

				Load table								
				Optimum life (25% free length Lo)		Long life (30% free length Lo)		Max. working (35% free length Lo)		Max. deflection		
Part number	Hole ØA (mm)	Rod ØB (mm)	Free length Lo (mm)	Load at 1 mm deflection (N)	Load (N)	Deflection (mm)	Load (N)	Deflection (mm)	Load (N)	Deflection (mm)	Load (N)	Deflection (mm)	Price each 1 to 4
R206104	10,0	5,0	25,0	36,8	138,0	3,8	156,4	4,3	184,0	5,0	228,2	6,2	4,35 €
R206106	10,0	5,0	38,0	23,7	135,1	5,7	153,1	6,5	180,1	7,6	225,2	9,5	5,29 €
R206108	10,0	5,0	51,0	16,5	126,2	7,7	143,1	8,7	168,3	10,2	214,5	13,0	6,29 €
R206112	10,0	5,0	76,0	10,9	124,3	11,4	140,8	12,9	165,7	15,2	207,1	19,0	7,54 €
R206204	12,5	6,3	25,0	58,5	219,4	3,8	248,6	4,3	292,5	5,0	362,7	6,2	5,29 €
R206206	12,5	6,3	38,0	36,0	205,2	5,7	232,6	6,5	273,6	7,6	342,0	9,5	6,29 €
R206208	12,5	6,3	51,0	26,2	200,4	7,7	227,2	8,7	267,2	10,2	340,6	13,0	7,19 €
R206212	12,5	6,3	76,0	17,1	194,9	11,4	220,9	12,9	259,9	15,2	324,9	19,0	8,66 €
R206248	12,5	6,3	305,0	4,3	196,7	45,8	223,0	51,9	262,3	61,0	326,8	76,0	38,11 €
R206305	16,0	8,0	32,0	89,0	427,2	4,8	484,2	5,4	569,6	6,4	712,0	8,0	6,70 €
R206307	16,0	8,0	44,0	60,9	401,9	6,6	455,5	7,5	535,9	8,8	669,9	11,0	7,69 €
R206310	16,0	8,0	64,0	41,2	395,5	9,6	448,3	10,9	527,4	12,8	659,2	16,0	8,98 €
R206314	16,0	8,0	89,0	29,5	393,8	13,4	446,3	15,1	525,1	17,8	649,0	22,0	10,00 €
R206348	16,0	8,0	305,0	8,4	384,3	45,8	435,5	51,9	512,4	61,0	638,4	76,0	39,81 €
R206404	20,0	10,0	25,0	293,0	1098,8	3,8	1245,3	4,3	1465,0	5,0	1816,6	6,2	7,42 €
R206405	20,0	10,0	32,0	224,0	1075,2	4,8	1218,6	5,4	1433,6	6,4	1792,0	8,0	8,26 €

*Depending on availability - Dimensions in mm

Part number	Hole ØA (mm)	Rod ØB (mm)	Free length Lo (mm)	Load at 1 mm deflection (N)	Load table								Price each 1 to 5
					Optimum life (25% free length Lo)		Long life (30% free length Lo)		Max. working (35% free length Lo)		Max. deflection		
					Load (N)	Deflection (mm)	Load (N)	Deflection (mm)	Load (N)	Deflection (mm)	Load (N)	Deflection (mm)	
R206406	20,0	10,0	38,0	177,0	1008,9	5,7	1143,4	6,5	1345,2	7,6	1681,5	9,5	8,66 €
R206407	20,0	10,0	44,0	149,0	983,4	6,6	1114,5	7,5	1311,2	8,8	1639,0	11,0	9,07 €
R206408	20,0	10,0	51,0	128,0	979,2	7,7	1109,8	8,7	1305,6	10,2	1664,0	13,0	10,00 €
R206410	20,0	10,0	64,0	99,0	950,4	9,6	1077,1	10,9	1267,2	12,8	1584,0	16,0	10,78 €
R206412	20,0	10,0	76,0	81,7	931,4	11,4	1055,6	12,9	1241,8	15,2	1552,3	19,0	11,55 €
R206414	20,0	10,0	89,0	69,5	927,8	13,4	1051,5	15,1	1237,1	17,8	1529,0	22,0	13,34 €
R206416	20,0	10,0	102,0	60,6	927,2	15,3	1050,8	17,3	1236,2	20,4	1575,6	26,0	14,26 €
R206418	20,0	10,0	115,0	53,0	914,3	17,3	1036,2	19,6	1219,0	23,0	1537,0	29,0	15,78 €
R206420	20,0	10,0	127,0	47,5	904,9	19,1	1025,5	21,6	1206,5	25,4	1520,0	32,0	17,36 €
R206422	20,0	10,0	139,0	43,0	896,9	20,9	1016,1	23,6	1195,4	27,8	1505,0	35,0	18,96 €
R206424	20,0	10,0	152,0	39,0	889,2	22,8	1007,8	25,8	1185,6	30,4	1482,0	38,0	21,13 €
R206448	20,0	10,0	305,0	21,2	969,9	45,8	1099,2	51,9	1293,2	61,0	1611,2	76,0	55,13 €
R206505	25,0	12,5	32,0	374,4	1797,1	4,8	2036,7	5,4	2396,2	6,4	2995,2	8,0	8,90 €
R206506	25,0	12,5	38,0	346,0	1972,2	5,7	2235,2	6,5	2629,6	7,6	3287,0	9,5	10,00 €
R206507	25,0	12,5	44,0	244,0	1610,4	6,6	1825,1	7,5	2147,2	8,8	2684,0	11,0	10,78 €
R206508	25,0	12,5	51,0	207,5	1587,4	7,7	1799,0	8,7	2116,5	10,2	2697,5	13,0	11,95 €
R206510	25,0	12,5	64,0	161,0	1545,6	9,6	1751,7	10,9	2060,8	12,8	2576,0	16,0	12,80 €
R206512	25,0	12,5	76,0	130,8	1491,1	11,4	1689,9	12,9	1988,2	15,2	2485,2	19,0	14,19 €
R206514	25,0	12,5	89,0	110,5	1475,2	13,4	1671,9	15,1	1966,9	17,8	2431,0	22,0	15,78 €
R206516	25,0	12,5	102,0	96,3	1473,4	15,3	1669,8	17,3	1964,5	20,4	2503,8	26,0	17,36 €
R206518	25,0	12,5	115,0	85,7	1478,3	17,3	1675,4	19,6	1971,1	23,0	2485,3	29,0	19,37 €
R206520	25,0	12,5	127,0	76,3	1453,5	19,1	1647,3	21,6	1938,0	25,4	2441,6	32,0	21,34 €
R206524	25,0	12,5	152,0	63,5	1447,8	22,8	1640,8	25,8	1930,4	30,4	2413,0	38,0	24,38 €
R206528	25,0	12,5	178,0	53,9	1439,1	26,7	1631,0	30,3	1918,8	35,6	2371,6	44,0	27,74 €
R206532	25,0	12,5	203,0	47,0	1431,2	30,5	1622,0	34,5	1908,2	40,6	2397,0	51,0	31,04 €
R206548	25,0	12,5	305,0	30,9	1413,7	45,8	1602,2	51,9	1884,9	61,0	2348,4	76,0	63,85 €
R206606	32,0	16,0	38,0	528,2	3010,7	5,7	3412,2	6,5	4014,3	7,6	5017,9	9,5	13,09 €
R206607	32,0	16,0	44,0	424,4	2801,0	6,6	3174,5	7,5	3734,7	8,8	4668,4	11,0	14,19 €
R206608	32,0	16,0	51,0	353,0	2700,5	7,7	3060,5	8,7	3600,6	10,2	4589,0	13,0	15,64 €
R206610	32,0	16,0	64,0	269,2	2584,3	9,6	2928,9	10,9	3445,8	12,8	4307,2	16,0	17,38 €
R206612	32,0	16,0	76,0	218,5	2490,9	11,4	2823,0	12,9	3321,2	15,2	4151,5	19,0	19,89 €
R206614	32,0	16,0	89,0	180,3	2407,0	13,4	2727,9	15,1	3209,3	17,8	3966,6	22,0	22,24 €
R206616	32,0	16,0	102,0	155,0	2371,5	15,3	2687,7	17,3	3162,0	20,4	4030,0	26,0	24,82 €
R206618	32,0	16,0	115,0	140,0	2415,0	17,3	2737,0	19,6	3220,0	23,0	4060,0	29,0	27,74 €
R206620	32,0	16,0	127,0	124,0	2362,2	19,1	2677,2	21,6	3149,6	25,4	3968,0	32,0	30,71 €
R206624	32,0	16,0	152,0	102,0	2325,6	22,8	2635,7	25,8	3100,8	30,4	3876,0	38,0	36,52 €
R206628	32,0	16,0	178,0	88,2	2354,9	26,7	2668,9	30,3	3139,9	35,6	3880,8	44,0	42,02 €
R206632	32,0	16,0	203,0	76,0	2314,2	30,5	2622,8	34,5	3085,6	40,6	3876,0	51,0	47,50 €
R206640	32,0	16,0	254,0	60,8	2316,5	38,1	2625,3	43,2	3088,6	50,8	3891,2	64,0	54,39 €
R206708	40,0	20,0	51,0	628,0	4804,2	7,7	5444,8	8,7	6405,6	10,2	8164,0	13,0	18,48 €
R206712	40,0	20,0	76,0	379,0	4320,6	11,4	4986,7	12,9	5760,8	15,2	7201,0	19,0	25,99 €
R206716	40,0	20,0	102,0	281,0	4299,3	15,3	4872,5	17,3	5732,4	20,4	7306,0	26,0	35,75 €
R206720	40,0	20,0	127,0	221,0	4210,1	19,1	4771,4	21,6	5613,4	25,4	7072,0	32,0	46,72 €
R206732	40,0	20,0	203,0	132,0	4019,4	30,5	4555,3	34,5	5359,2	40,6	6732,0	51,0	62,10 €
R206748	40,0	20,0	305,0	87,8	4016,9	45,8	4552,4	51,9	5355,8	61,0	6672,8	76,0	100,77 €
R206810	50,0	25,0	64,0	709,0	6806,4	9,6	7713,9	10,9	9075,2	12,8	11344,0	16,0	37,45 €
R206814	50,0	25,0	89,0	475,0	6541,3	13,4	7186,8	15,1	8455,0	17,8	10450,0	22,0	50,00 €
R206818	50,0	25,0	115,0	352,0	6072,0	17,3	6881,6	19,6	8096,0	23,0	10208,0	29,0	62,10 €
R206824	50,0	25,0	152,0	239,0	5449,2	22,8	6175,8	25,8	7265,6	30,4	9082,0	38,0	80,99 €
R206840	50,0	25,0	254,0	153,0	5829,3	38,1	6606,5	43,2	7772,4	50,8	9792,0	64,0	131,15 €

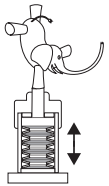
*Depending on availability - Dimensions in mm

Disc springs DIN 2093

RBS

Steel

- **Disc spring washer**
- Belleville (spring) washer conforming to DIN 2093
- **Sold in packs**



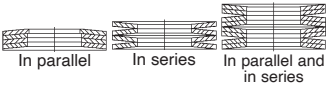


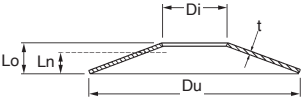
Advantages

- Exerts large forces
- Usable under severe conditions

Info.

- When compressed, internal Di reduces while outside diameter Du increases
- Dynamic washers can be assembled into columns of multiple washers in different configurations to obtain the performance required, e.g. a longer stroke than a single washer would give or a higher force for a shorter stroke.





DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-10%	On request

Part number	Diameter Outside Du	Diameter Internal Di	Thickness t	Free length Lo	Loaded length Ln	Load in Ln (N) Fn	Qty per pack	Stock*	Price per pack
RBS8214/L	8,00	3,20	0,30	0,55	0,36	106	200	✔	28,09 €
RBS8215/L	8,00	3,20	0,40	0,60	0,45	185	200	-	28,09 €
RBS8216/L	8,00	4,20	0,30	0,55	0,36	118	200	✔	28,09 €
RBS8217/L	8,00	4,20	0,40	0,60	0,45	206	200	-	28,09 €
RBS8227/L	10,00	3,20	0,30	0,65	0,39	100	200	-	32,76 €
RBS8228/L	10,00	3,20	0,40	0,70	0,47	181	200	-	32,76 €
RBS8229/L	10,00	3,20	0,50	0,75	0,56	282	200	-	32,76 €
RBS8230/L	10,00	4,20	0,40	0,50	0,47	191	200	-	32,76 €
RBS8231/L	10,00	4,20	0,50	0,75	0,56	296	200	-	32,76 €
RBS8232/L	10,00	4,20	0,60	0,85	0,66	490	200	-	32,76 €
RBS8233/L	10,00	5,20	0,40	0,70	0,53	209	200	✔	32,76 €
RBS8234/L	10,00	5,20	0,50	0,75	0,56	326	200	✔	32,76 €
RBS8239/L	12,00	4,20	0,40	0,80	0,50	181	200	-	32,76 €
RBS8240/L	12,00	4,20	0,50	0,85	0,59	288	200	-	32,76 €
RBS8242/L	12,00	5,20	0,50	0,90	0,60	349	200	-	32,76 €
RBS8243/L	12,00	5,20	0,60	0,95	0,69	581	200	✔	32,76 €
RBS8244/L	12,50	6,20	0,50	0,85	0,59	331	200	✔	32,76 €
RBS8247/L	12,50	6,20	0,70	1,00	0,77	659	200	✔	42,14 €
RBS8256/L	14,00	7,20	0,50	0,90	0,60	279	200	✔	42,14 €
RBS8257/L	14,00	7,20	0,80	1,10	0,87	796	200	-	42,14 €

*Depending on availability - Dimensions in mm

DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-10%	On request

Part number	Diameter Outside Du	Diameter Internal Di	Thickness t	Free length Lo	Loaded length Ln	Load in Ln (N) Fn	Qty per pack	Stock*	Price per pack
RBS8259/L	15,00	5,20	0,40	0,95	0,54	178	200	-	42,14 €
RBS8260/L	15,00	5,20	0,50	1,00	0,62	279	200	-	42,14 €
RBS8261/L	15,00	5,20	0,60	1,05	0,71	407	200	-	42,14 €
RBS8262/L	15,00	5,20	0,70	1,10	0,80	563	200	-	42,14 €
RBS8263/L	15,00	6,20	0,50	1,00	0,62	292	200	-	42,14 €
RBS8264/L	15,00	6,20	0,60	1,05	0,71	424	200	✔	42,14 €
RBS8265/L	15,00	6,20	0,70	1,10	0,80	583	200	✔	42,14 €
RBS8266/L	15,00	8,20	0,70	1,10	0,80	666	200	-	42,14 €
RBS8267/L	15,00	8,20	0,80	1,20	0,90	1005	200	✔	46,85 €
RBS8272/L	16,00	8,20	0,60	1,05	0,71	410	200	-	42,14 €
RBS8273/L	16,00	8,20	0,90	1,25	0,99	1010	200	✔	46,85 €
RBS8275/L	18,00	6,20	0,40	1,00	0,55	141	200	✔	42,14 €
RBS8276/L	18,00	6,20	0,50	1,10	0,65	245	200	-	42,14 €
RBS8277/L	18,00	6,20	0,60	1,20	0,75	400	200	-	46,85 €
RBS8278/L	18,00	6,20	0,70	1,25	0,84	561	200	-	46,85 €
RBS8279/L	18,00	6,20	0,80	1,30	0,92	735	200	-	52,89 €
RBS8280/L	18,00	8,20	0,70	1,25	0,84	601	200	✔	46,85 €
RBS8281/L	18,00	8,20	1,00	1,30	0,92	781	200	✔	51,53 €
RBS8282/L	18,00	9,20	0,70	1,20	0,82	566	200	-	46,85 €
RBS8283/L	18,00	9,20	1,00	1,40	1,10	1255	200	-	51,53 €
RBS8291/L	20,00	8,20	0,60	1,30	0,77	413	200	✔	46,85 €
RBS8292/L	20,00	8,20	0,70	1,35	0,86	577	200	-	46,85 €
RBS8293/L	20,00	8,20	0,80	1,40	0,95	760	200	✔	51,53 €
RBS8295/L	20,00	10,20	0,80	1,35	0,94	748	200	-	51,53 €
RBS8296/L	20,00	10,20	0,90	1,45	1,04	1064	200	-	51,53 €
RBS8297/L	20,00	10,20	1,00	1,55	1,14	1422	200	-	56,22 €
RBS8298/L	20,00	10,20	1,10	1,55	1,21	1520	200	-	56,22 €
RBS8301/L	22,50	11,20	0,80	1,45	0,96	707	200	-	51,53 €
RBS8302/L	22,50	11,20	1,25	1,75	1,37	1932	200	-	101,37 €
RBS8303/L	23,00	8,20	0,70	1,50	0,90	549	200	-	51,53 €
RBS8304/L	23,00	8,20	0,80	1,55	0,99	730	200	-	51,53 €
RBS8305/L	23,00	8,20	0,90	1,70	1,10	1079	200	-	56,22 €
RBS8309/L	23,00	10,20	0,90	1,65	1,09	1059	200	-	56,22 €
RBS8310/L	23,00	10,20	1,00	1,70	1,17	1314	200	✔	65,58 €
RBS8311/L	23,00	12,20	1,25	1,85	1,40	2334	200	-	116,38 €
RBS8313/L	25,00	12,20	0,90	1,60	1,07	862	200	✔	60,90 €
RBS8314/L	25,00	12,20	1,50	2,05	1,64	2922	200	✔	118,90 €
RBS8321/L	28,00	10,20	0,80	1,75	1,04	672	200	-	65,58 €
RBS8322/L	28,00	10,20	1,00	2,00	1,25	1285	200	-	70,28 €
RBS8324/L	28,00	12,20	1,00	1,95	1,24	1265	200	✔	70,28 €
RBS8325/L	28,00	12,20	1,25	2,10	1,46	2079	200	-	119,55 €
RBS8326/L	28,00	12,20	1,50	2,25	1,69	3079	200	-	127,21 €
RBS8327/L	28,00	14,20	1,00	1,80	1,20	1108	200	-	70,28 €
RBS8328/L	28,00	14,20	1,25	2,10	1,46	2236	200	-	119,55 €
RBS8329/L	28,00	14,20	1,50	2,15	1,66	2844	200	-	158,60 €

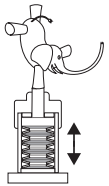
*Depending on availability - Dimensions in mm

Disc springs DIN 2093

RBS

Steel

- **Disc spring washer**
- Belleville (spring) washer conforming to DIN 2093
- **Sold in packs**





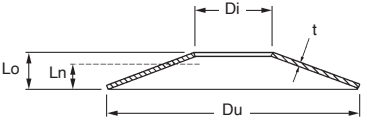
Advantages

- Exerts large forces
- Usable under severe conditions

Info.

- When compressed, internal diameter Di reduces while outside diameter Du increases
- Dynamic washers can be assembled into columns of multiple washers in different configurations to obtain the performance required, e.g. a longer stroke than a single washer would give or a higher force for a shorter stroke.





DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-10%	On request

Part number	Diameter Outside Du	Diameter Internal Di	Thickness t	Free length Lo	Loaded length Ln	Load in Ln (N) Fn	Qty per pack	Stock*	Price per pack
RBS8334/L	31,50	16,30	1,25	2,15	1,47	1912	100	✔	60,84 €
RBS8335/L	31,50	16,30	1,75	2,45	1,92	3874	100	✔	73,59 €
RBS8345/L	34,00	14,30	1,25	2,40	1,54	2010	100	-	82,04 €
RBS8346/L	34,00	14,30	1,50	2,55	1,76	2991	100	-	81,07 €
RBS8347/L	34,00	16,30	1,50	2,55	1,76	3187	100	-	85,97 €
RBS8348/L	34,00	16,30	2,00	2,85	2,41	5776	100	-	90,09 €
RBS8352/L	35,50	18,30	1,25	2,25	1,50	1716	100	-	70,65 €
RBS8353/L	35,50	18,30	2,00	2,80	2,20	5256	100	-	94,30 €
RBS8364/L	40,00	16,30	1,50	2,80	1,82	2775	100	-	108,62 €
RBS8365/L	40,00	16,30	2,00	3,10	2,27	5247	100	-	137,07 €
RBS8366/L	40,00	18,30	2,00	3,15	2,29	5688	100	-	140,63 €
RBS8367/L	40,00	20,40	1,50	2,65	1,79	2648	100	✔	105,69 €
RBS8368/L	40,00	20,40	2,00	3,10	2,27	5766	100	✔	109,60 €
RBS8369/L	40,00	20,40	2,25	3,15	2,47	6551	100	-	116,01 €
RBS8370/L	40,00	20,40	2,50	3,45	2,74	9512	100	-	137,27 €

*Depending on availability - Dimensions in mm

Custom-made compression springs

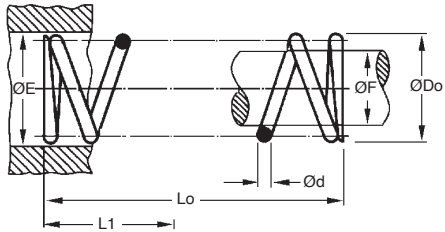
Form to be completed

If you would like a quotation for custom made springs, please enlarge this form by 200% (to A4 size), fill in as much information as possible and return to our technical team:
+33(0)4 37 496 496 or by email: cial2@hpceurope.com

Company : _____ *Address :* _____

Contact : _____ *Account number :* _____

Phone number : _____ *Email :* _____



A minimum order quantity will apply

Material		Number of coils	
Ød		Pitch	
ØD0		Housing diameter ØE	
Free length L0		Axle diameter ØF	
Loaded length L1		Squarred and ground ends	❒ yes ❒ no
Load (N)			

Quantity	

Custom-made extension springs

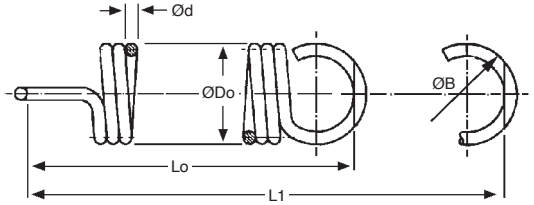
Form to be completed

If you would like a quotation for custom made springs, please enlarge this form by 200% (to A4 size), fill in as much information as possible and return to our technical team:
+33(0)4 37 496 496 or by email: cial2@hpceurope.com

Company : _____ *Address :* _____

Contact : _____ *Account number :* _____

Phone number : _____ *Email :* _____



A minimum order quantity will apply

Material			
Ød		Loop diameter ØB	
ØD0		To one another	❒ 0° ❒ 90°
Free length L0			
Loaded length L1			
Load (N)			

Quantity	

Custom-made torsion springs

Form to be completed

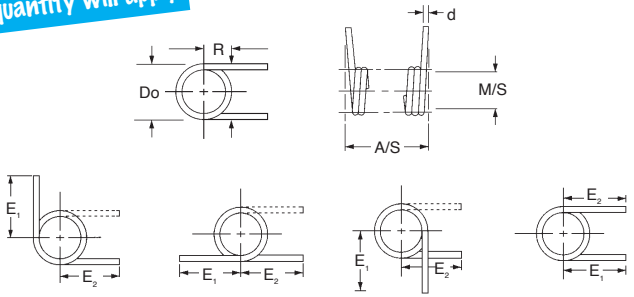
If you would like a quotation for custom made springs, please enlarge this form by 200% (to A4 size), fill in as much information as possible and return to our technical team:
+33(0)4 37 496 496 or by email: cial2@hpceurope.com

Company : _____ Address : _____

Contact : _____ Account number : _____

Phone number : _____ Email : _____

A minimum order quantity will apply



Material		Length A/S	
Ød		E_1	
ØD0		E_2	
Distance R		Number of coils	
Load R (N)		Wound direction	❒ Left hand ❒ Right hand

Quantity	

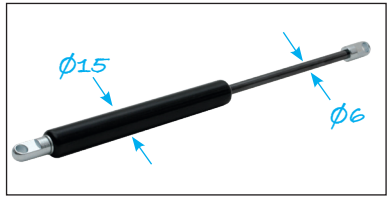
Accessories for gas springs

Combinations

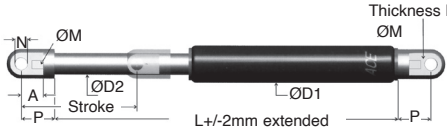
Adjustable gas spring Øcylinder 15mm

Adjustable force up to 400N — GSA15

- **Gas spring**
- Works in compression (push mode)
- Integrated valve
- Progressivity: about 27%
- Speed and damping:
  Normal speed, medium damping
  over 10mm approximately
- Operating temperature: -30°C to + 80°C
- Materials:
  Steel rod ceramic coated (corrosion
  resistance 216h according
  to DIN50021SS)
  Steel body black epoxy paint



Important: Spring must be mounted with piston pointing down.



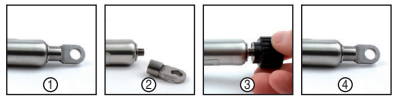
Adjustment

- The gas spring are inflated to the force indicated
- Let gas escape through the decompression valve using the adjustment screw to obtain the desired force.

CAUTION: Once the gas has been released, spring cannot be refilled

Use

- Facilitate opening and closing of a bonnet or boot
- Additional effort



Setting the force with the adjustment screw

DISCOUNTS *Gas spring*

Qty	1+	3+	6+
Disc.	List	-10%	On request

DISCOUNTS *Adjustment screw*

Qty	1+	3+
Disc.	List	On request

Part number	Stroke	L	ØD1	ØD2	ØN	A	P	E	ØM	Force (N)	Stock*	Price each
GSA-15-60A	60	147	15	6	6,1	10	16	6	M5	400	✔	96,40 €
GSA-15-100A	100	227	15	6	6,1	10	16	6	M5	400	✔	100,82 €
GSA-15-150A	150	327	15	6	6,1	10	16	6	M5	400	✔	102,21 €
GSA-15-200A	200	427	15	6	6,1	10	16	6	M5	400	✔	111,04 €
Adjustment screw												
GSI-15-U5	For gas springs GSA-15 and GSI-15										✔	21,26 €

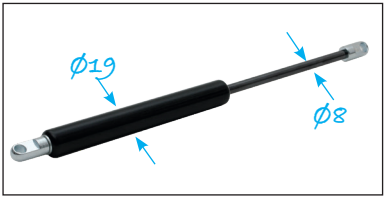
**Depending on availability - Dimensions in mm*

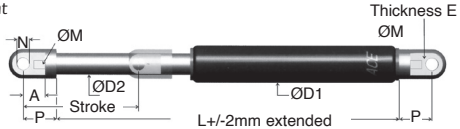
Adjustable gas spring Øcylinder 19mm

Ste 700 N

GSA19 — Adjustable force up to 700N

- ***Gas spring***
- *Works in compression (push mode)*
- *Integrated valve*
- *Progressivity: about 40%*
- *Speed and damping:*
  Slow speed, strong damping over 20mm to 60mm approximately depending on the stroke.
- *Operating temperature: -30°C to + 80°C*
- *Materials:*
  Steel rod ceramic coated (corrosion resistance 216h according to DIN50021SS)
  Steel body black epoxy paint





Important: *Spring must be mounted with piston pointing down.*

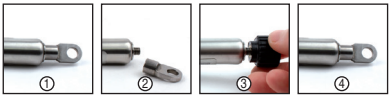
Adjustment

- *The gas spring are inflated to the force indicated*
- *Let gas escape through the decompression valve using the adjustment screw to obtain the desired force.*

CAUTION: *Once the gas has been released, spring cannot be refilled*

Use

- *Facilitate opening and closing of a bonnet or boot*
- *Additional effort*



Setting the force with the adjustment screw

DISCOUNTS *Gas spring*

Qty	1+	3+	6+
Disc.	List	-10%	On request

DISCOUNTS *Adjustment screw*

Qty	1+	3+
Disc.	List	On request

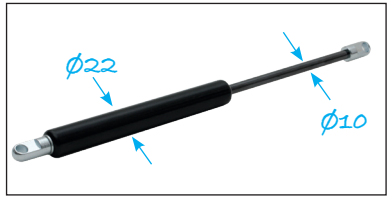
Part number	Stroke	L	ØD1	ØD2	ØN	A	P	E	ØM	Force (N)	Stock*	Price each
GSA-19-100A	100	264	19	8	8,1	10	20	10	M8	700	✔	109,88 €
GSA-19-150A	150	364	19	8	8,1	10	20	10	M8	700	✔	111,97 €
GSA-19-200A	200	464	19	8	8,1	10	20	10	M8	700	✔	114,76 €
GSA-19-250A	250	564	19	8	8,1	10	20	10	M8	700	✔	118,94 €
Adjustment screw												
GSI-22-U8	For gas springs GSA-19, GSA-22 and GSI-22										✔	21,52 €

**Depending on availability - Dimensions in mm*

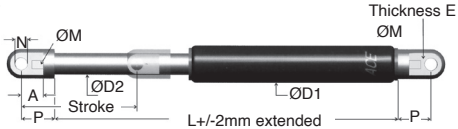
Adjustable gas spring Øcylinder 22mm

Adjustable force up to 1300N — GSA22

- **Gas spring**
- Works in compression (push mode)
- Integrated valve
- Progressivity: about 45%
- Speed and damping:
  Slow speed, strong damping over 20mm to 70mm approximately depending on the stroke
- Operating temperature: -30°C to + 80°C
- Materials:
  Steel rod ceramic coated (corrosion resistance 216h according to DIN50021SS)
  Steel body black epoxy paint



Important: Spring must be mounted with piston pointing down.



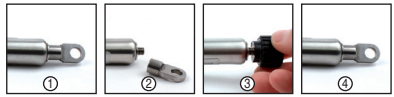
Adjustment

- The gas spring are inflated to the force indicated
- Let gas escape through the decompression valve using the adjustment screw to obtain the desired force.

CAUTION: Once the gas has been released, spring cannot be refilled

Use

- Facilitate opening and closing of a bonnet or boot
- Additional effort



Setting the force with the adjustment screw

DISCOUNTS *Gas spring*

Qty	1+	3+	6+
Disc.	List	-10%	On request

DISCOUNTS *Adjustment screw*

Qty	1+	3+
Disc.	List	On request

Part number	Stroke	L	ØD1	ØD2	ØN	A	P	E	ØM	Force (N)	Stock*	Price each
GSA-22-100A	100	264	22	10	8,1	10	20	10	M8	1300	-	112,43 €
GSA-22-150A	150	364	22	10	8,1	10	20	10	M8	1300	-	114,29 €
GSA-22-200A	200	464	22	10	8,1	10	20	10	M8	1300	✔	119,40 €
GSA-22-250A	250	564	22	10	8,1	10	20	10	M8	1300	✔	121,03 €
Adjustment screw												
GSI-22-U8	For gas springs GSA-19, GSA-22 and GSI-22										✔	21,52 €

*Depending on availability - Dimensions in mm

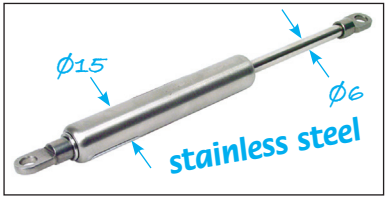
Stainless steel gas spring

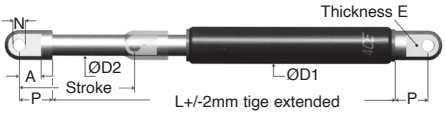
GSI

Fixed force from 50 to 400N

- ***Stainless steel gas spring***
- *Materials:*
  Body/rod: stainless steel
  Rod-end: stainless steel
- *Works in compression (push) mode*
- *Refilling fluid: nitrogen oil*
- *Working temperature: -20°C to 80°C*
- *Operating Fluids: Nitrogen gas and oil*
- *Damping length (with oil)*
  Size 6: approx 10mm
  Size 10: approx 20mm
- *Filling tolerance: -20N to +40N*

Important: *Spring must be mounted with piston pointing down*





Option

- *Preset forces available to order (for orders of 5 or more):*
  Size 6: 10N to 400N
  Size 10: 80N to 1300N

Uses

- *Facilitates opening and closing of a bonnet or boot*
- *Saves effort*



DISCOUNTS

Qty	1+	3+
Disc.	List	On request

Part number	Stroke	L	ØD1	ØD2	ØN	A	P	E	Force (N)	Price each 1 to 2
Size 6										
GSI-15-060-50	60	149	15	6	6,1	10	16	6	50	256,80 €
GSI-15-100-80	100	229	15	6	6,1	10	16	6	80	269,72 €
GSI-15-150-100	150	329	15	6	6,1	10	16	6	100	291,80 €
Size 10										
GSI-22-50-80	50	164	22	10	8,1	14	20	10	80	305,19 €
GSI-22-100-100	100	264	22	10	8,1	14	20	10	100	321,48 €
GSI-22-150-200	150	364	22	10	8,1	14	20	10	200	328,25 €
GSI-22-200-300	200	464	22	10	8,1	14	20	10	300	369,46 €
GSI-22-250-400	250	564	22	10	8,1	14	20	10	400	380,85 €

Dimensions in mm

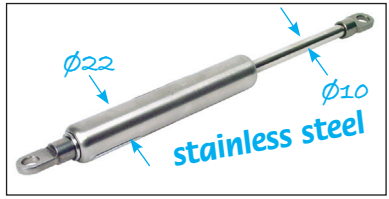
Sta 1000 N Adjustable Stainless steel gas spring

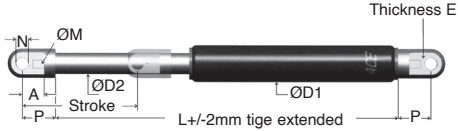
Adjustable force up to 1,000N

GSIA

- ***Stainless steel gas spring***
- *Materials:*
  Body/rod: stainless steel
  Rod-end: stainless steel
- *Works in compression (push) mode*
- *Refilling fluid: nitrogen oil*
- *Working temperature: -20°C to 80°C*
- *Operating Fluids: Nitrogen gas and oil*
- *Damping length (with oil) approx 20mm*
- *Filling tolerance: -20N to +40N*

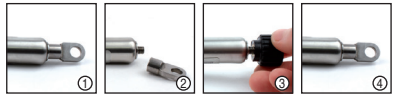
Important: *Spring must be mounted with piston pointing down*





Adjustment

- *Springs are pre-filled to reach the stated force. Gas should be released using the valve to achieve the force required*
- *NOTE once the gas has been released, spring cannot be refilled.*



Setting the force with the adjustment screw

Uses

- *Facilitates opening and closing of a bonnet or boot*
- *Additional effort*



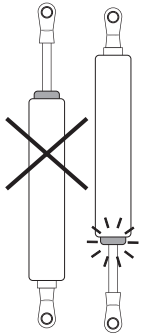
DISCOUNTS

Qty	1+	3+
Disc.	List	On request

Part number	Stroke	L	ØD1	ØD2	ØN	A	P	E	Force (N)	Price each 1 to 2
Size 6										
GSI-15-060-400A	60	149	15	6	6,1	10	16	6	400	248,76 €
GSI-15-100-400A	100	229	15	6	6,1	10	16	6	400	261,70 €
GSI-15-150-400A	150	329	15	6	6,1	10	16	6	400	292,24 €
Size 10										
GSI-22-050-1000A	50	164	22	10	8,1	14	20	10	1000	305,19 €
GSI-22-100-1000A	100	264	22	10	8,1	14	20	10	1000	331,34 €
GSI-22-150-1000A	150	364	22	10	8,1	14	20	10	1000	339,34 €
GSI-22-200-1000A	200	464	22	10	8,1	14	20	10	1000	358,52 €
GSI-22-250-1000A	250	564	22	10	8,1	14	20	10	1000	369,67 €
Adjustment screw										
GSI-15-U5	For gas springs GSI-15									21,26 €
GSI-22-U8	For gas springs GSI-22									21,52 €

Dimensions in mm

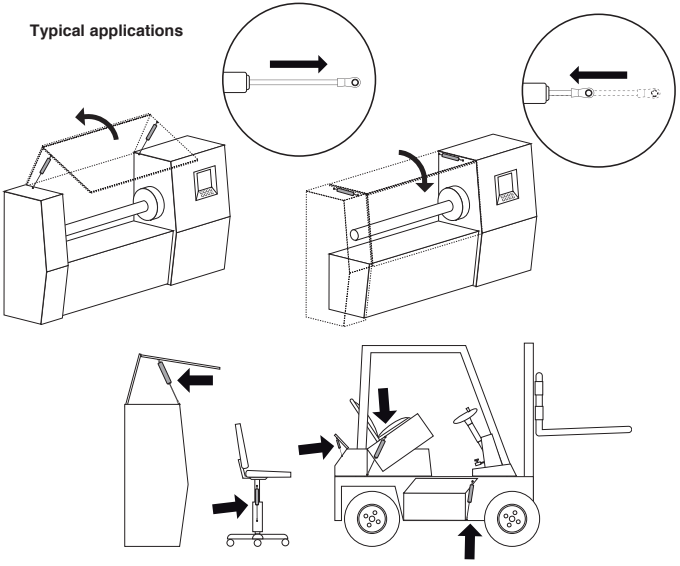
Instructions





Must be used with piston pointing down

Typical applications



Straight clevis

For use with a male clevis

CLR
CLRss

- ***For attaching a gas spring***
- *Materials:*
  Steel
  316L stainless steel



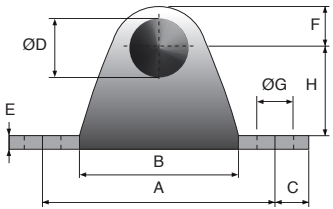
steel or stainless steel

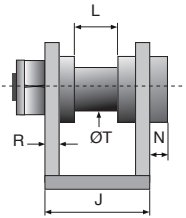
Advantages

- *Allows gas springs to be mounted using a mounting plate and a* ***CLM*** *male clevis*

Accessories

- ***CLM*** *male clevis* ***tome*** **1 p.329)**





DISCOUNTS

Qty	1+	6+	10+	15+	20+
Disc.	List	-10%	-15%	-20%	On request

Part number	A	B	C	E	F	ØG	H	J	ØD	ØT	N	L	R	Max load (N)	Stock*	Price each 1 to 5
Steel																
CLR-6	51	36	9,5	2,5	9	6,5	20	18	13	6	4,0	6,5	2,5	500	✔	17,81 €
CLR-8	51	36	9,5	2,5	9	6,5	20	18	13	8	4,0	13	2,5	1800	✔	17,81 €
Stainless steel																
CLR-6/SS	51	36	9,5	2,5	9	6,5	20	18	13	6	4,0	6,5	2,5	500	-	157,09 €
CLR-8/SS	51	36	9,5	2,5	9	6,5	20	18	13	8	4,0	13	2,5	1800	✔	144,00 €

**Depending on availability - Dimensions in mm*

Right angled mounting plate

SteStaStock

CNA
CNG

For ball joint or clevis

- ***For attaching a gas spring***
- *Materials:*
  Steel
  316L stainless steel

steel or stainless steel



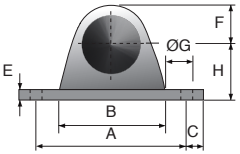
CNA **CNG**

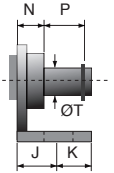
Advantages

- *Allows gas springs to be mounted by combining a mounting plate with a* ***RAS/IBJ*** *ball joint or a* ***CLM*** *clevis*

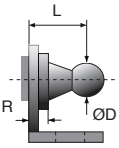
Accessories

- ***RAS*** *ball joint* ***(tome 1 p.325)*** *or* ***CLM*** *clevis* ***(tome 1 p.329)***





CNA
Use with a clevis



CNG
Use with a ball joint

IN STOCK*
Otherwise contact us

DISCOUNTS

Qty	1+	6+	10+	15+	20+
Disc.	List	-10%	-15%	-20%	On request

Use with a clevis

Part number Steel	S/steel	A	B	C	E	F	ØG	H	J	K	ØT	N	P	Max load (N)	Price each 1 to 5 Steel	S/steel
CNA-4	-	19	16	3	1,5	4	3,4	10	5,75	4,25	4	3,5	4,5	180	15,81 €	-
CNA-6	CNA-6/SS	40	34	5	2	10	5,3	16	10	10	6	6,0	7	400	17,81 €	70,69 €
CNA-8	CNA-8/SS	40	34	5	2	10	5,3	16	10	10	8	7,0	11	1800	17,81 €	51,59 €

Use with a ball joint

Part number Steel	S/steel	A	B	C	E	F	ØG	H	J	K	ØD	L	R	Max load (N)	Price each 1 to 5 Steel	S/steel
CNG-3,5	-	19	16	3	1,5	4	3,4	10	5,75	4,25	8	12,5	4,5	180	32,61 €	-
CNG-5	CNG-5/SS	40	34	5	2	10	5,3	16	10	10	8	13	5	400	17,81 €	72,67 €
CNG-8	CNG-8/SS	40	34	5	2	10	5,3	16	10	10	13	14,5	5	1800	18,42 €	72,67 €

**Depending on availability - Dimensions in mm*

Surface mounting plate

For ball joint or clevis

steel or stainless steel

COA
COG

- **For attaching a gas spring**
- Materials:
  Steel
  316L stainless steel



COA



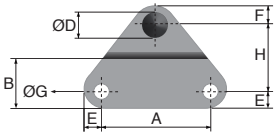
COG

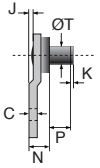
Advantages

- Allows gas springs to be mounted by combining a mounting plate with a **RAS/IBJ** ball joint or a **CLM** clevis

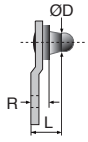
Accessories

- **RAS** ball joint **(tome 1 p.325)** or **CLM** clevis **(tome 1 p.329)**





COA
Use with a clevis



COG
Use with a ball joint

IN STOCK*
Otherwise contact us

DISCOUNTS

Qty	1+	6+	10+	15+	20+
Disc.	List	-10%	-15%	-20%	On request

Use with a clevis

Part number Steel	S/steel	A	B	C	E	F	ØG	H	J	K	ØT	N	P	Max load (N)	Price each 1 to 5 Steel	S/steel
COA-4	-	18	13	1,5	5	5	4,3	16	1	2	4	4,5	4,5	180	18,57 €	-
COA-6	COA-6/SS	18	13	1,5	5	5	4,3	15,6	1	2,5	6	6,5	6,5	180	17,81 €	93,75 €
COA-8	COA-8/SS	55	23	3	7	10	5,3	30	2	5	8	10,0	11	1200	17,81 €	73,31 €

Use with a ball joint

Part number Steel	S/steel	A	B	C	E	F	ØG	H	J	ØD	L	R	Max load (N)	Price each 1 to 5 Steel	S/steel
COG-3,5	-	18	13	1,5	5	5	4,3	16	1	8	13,5	5,5	180	17,41 €	-
COG-5	COG-5/SS	18	13	1,5	5	5	4,3	15,6	1	8	13,5	5,5	180	17,81 €	91,64 €
COG-8	COG-8/SS	55	23	3	7	10	5,3	30	2	13	17,5	8	1200	18,25 €	90,52 €

*Depending on availability - Dimensions in mm

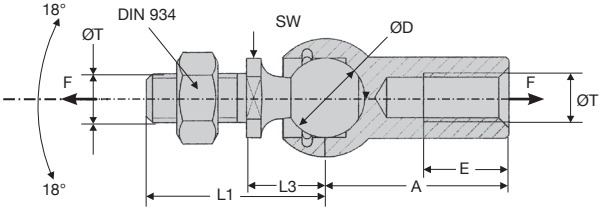
180° ball and socket joint steel or stainless steel Stock Ste

IBJ
IBJss

Steel/steel or stainless steel/stainless steel contact

- ***Inline ball and socket joint similar to DIN 71802***
- *Body to DIN 71805*
- *Stem to DIN 71803*
- *Materials:*
  Zinc plated steel
  Stainless steel 1.4305 (A2 stainless steel)





DISCOUNTS / *steel*

Qty	1+	6+	20+	40+	60+
Disc.	Price	-20%	-30%	-50%	On request

DISCOUNTS / *stainless steel*

Qty	1+	6+	20+	40+	60+
Disc.	Price	-15%	-20%	-30%	On request

Part number	ØD	ØT	A	L1	L3	E	SW	Axial load F (N)	Weight (kg)	Stock*	Price each 1 to 5
Steel											
IBJ-5	8	M5	22	19,2	9	10,2	7	30	0,015	✔	5,45 €
IBJ-6	10	M6	25	23,5	11	11,5	8	40	0,025	✔	7,00 €
IBJ-8	13	M8	30	29,5	13	14,0	11	60	0,053	✔	7,39 €
IBJ-10	16	M10	35	36,0	16	15,5	13	80	0,104	✔	10,25 €
IBJ-14x1.5	19	M14x1,5	45	48,0	20	21,5	16	100	0,221	✔	26,18 €
Stainless Steel											
IBJ-5/SS	8	M5	22	19,2	9	10,2	7	30	0,015	✔	9,84 €
IBJ-6/SS	10	M6	25	23,5	11	11,5	8	40	0,025	✔	11,79 €
IBJ-8/SS	13	M8	30	29,5	13	14,0	11	60	0,055	✔	12,94 €
IBJ-10/SS	16	M10	35	36,0	16	15,5	13	80	0,105	-	21,18 €

**Depending on availability - Dimensions in mm*

Steel/steel or stainless/steel contact

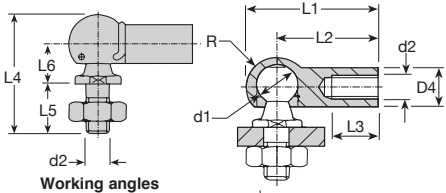
RAS
RASss

- **Conforms to DIN 71802**
- Working angle: Lateral ±15°
  Front to back ±18°
- Materials:
  Passivated galvanised steel
  Stainless steel 303
- Retained in housing by a fastener
- For the left hand threaded version, only the female part has a left hand thread

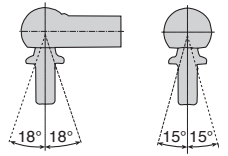


Advantages

- Wear resistant



Working angles



Front to back **Side to side**

Sizes	Fixing A/F	Max. radial and axial static force. kp
M5	7	30
M6	8	70
M8	11	150
M10	13	200
M12	13	200

DISCOUNTS

Qty	1+	6+	20+	40+	60+
Disc.	List	-15%	-20%	-30%	On request

Part number Steel	S. steel	d1	d2	D4	L1	L2	L3	L4	L5	L6	R	Stock* Steel	S. Steel	Price each 1 to 5 Steel	Stainless steel
Right hand thread															
RAS5	RAS5/SS	8	M5	8	28,5	22,0	10,2	25,0	10,2	9,0	6,4	✔	✔	5,32 €	7,86 €
RAS6	RAS6/SS	10	M6	10	32,5	25,0	11,5	30,0	12,5	11,0	7,5	✔	✔	5,52 €	8,03 €
RAS8	RAS8/SS	13	M8	13	39,5	30,0	14,0	38,0	16,5	13,0	9,7	✔	✔	6,74 €	10,25 €
RAS10	RAS10/SS	16	M10	16	47,0	35,0	15,5	47,5	20,0	16,0	12,0	✔	✔	9,10 €	18,18 €
RAS12	RAS12/SS	16	M12	16	47,0	35,0	15,0	47,5	20,0	16,0	12,0	✔	✔	12,83 €	21,30 €
Left hand thread															
RAS5L	-	8	M5	8	28,5	22,0	10,5	25,0	10,2	9,0	6,4	✔	-	6,15 €	-
RAS6L	-	10	M6	10	32,5	25,0	11,5	30,0	12,5	11,0	7,5	✔	-	6,20 €	-
RAS8L	-	13	M8	13	39,5	30,0	14,0	38,0	16,5	13,0	9,7	✔	-	7,45 €	-
RAS10L	-	16	M10	16	47,0	35,0	15,5	47,5	20,0	16,0	12,0	✔	-	9,83 €	-
RAS12L	-	16	M12	16	47,0	35,0	15,0	47,5	20,0	16,0	12,0	✔	-	15,23 €	-

*Depending on availability - Dimensions in mm

Clevis and clip, short version

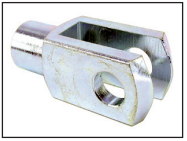
CLS
CLP

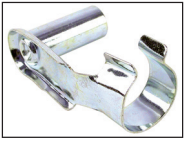
Steel

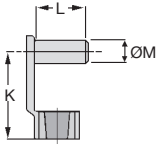
- ***Trunnion link***
- *Material: Medium hard steel 9S Mn Pb28, R= 500 N/mm²*
- *Conforms to DIN 71752*
- ***Not sold individually, please contact us for details***

Quick assembly

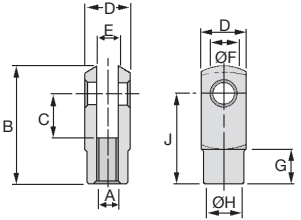








CLP
Spring clip



CLS clevis

DISCOUNTS

Qty	1+	6+	20+	50+	100+	250+
Disc.	List	-10%	-20%	-30%	-40%	On request

Clevis

Part number	A	B	C	D	E (B13)	ØF (H9)	G	ØH	J	Static load Co (daN)	Stock*	Price each 1 to 5
CLS-4	M4 x 0,70	21	8	8	4	4	6,00	8	16	320	✔	2,81 €
CLS-5	M5 x 0,80	26	10	10	5	5	7,50	9	20	500	✔	2,18 €
CLS-6	M6 x 1,00	31	12	12	6	6	9,00	10	24	720	✔	1,94 €
CLS-8	M8 x 1,25	42	16	16	8	8	12,00	14	32	1280	✔	2,44 €
CLS-10	M10 x 1,50	52	20	20	10	10	15,00	18	40	2000	✔	3,55 €
CLS-12	M12 x 1,75	62	24	24	12	12	18,00	20	48	2880	✔	6,63 €
CLS-16	M16 x 2,00	83	32	32	16	16	24,00	26	64	5120	✔	13,64 €
CLS-10C	M10 x 1,25	52	20	20	10	10	15,00	18	40	-	✔	3,76 €
CLS-12C	M12 x 1,25	62	24	24	12	12	18,00	20	48	-	-	6,63 €
CLS-16C	M6 x 1,50	83	32	32	16	16	24,00	26	64	-	✔	13,72 €

Spring clip

Part number	K	L	ØM	Stock*	Price each 1 to 5
CLP-4	15	9	4	✔	0,90 €
CLP-5	19	12	5	✔	0,95 €
CLP-6	23	14	6	✔	1,01 €
CLP-8	31	19	8	✔	1,00 €
CLP-10	39	23	10	✔	1,06 €
CLP-12	47	28	12	✔	1,71 €
CLP-16	62	36	16	✔	2,98 €

**Depending on availability - Dimensions in mm*

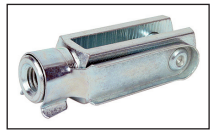
Clevis and clip, long range

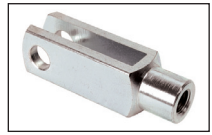
Steel

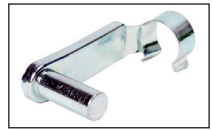
CLL
CLLP

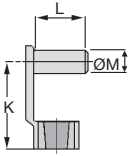
- ***Trunnion link***
- *Material: Medium hard steel 9S Mn Pb28, R= 500 N/mm²*
- *Conforms to DIN 71752*
- ***Not sold individually, please contact us for details***

Quick assembly

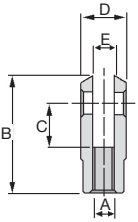


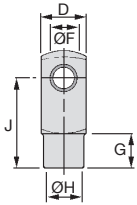






CLLP
Spring clip





CLL clevis

DISCOUNTS

Qty	1+	6+	20+	50+	100+	250+
Disc.	List	-10%	-20%	-30%	-40%	On request

Clevis

Part number	A	B	C	D	E (B13)	ØF (H9)	G	ØH	J	Static load Co (daN)	Stock*	Price each 1 to 5
CLL-5	M5 x 0,80	36	20	10	5	5	7,50	9	30	500	✔	2,24 €
CLL-6	M6 x 1,00	43	24	12	6	6	9,00	10	36	720	✔	2,39 €
CLL-8	M8 x 1,25	58	32	16	8	8	12,00	14	48	1280	✔	3,47 €
CLL-10	M10 x 1,5	72	40	20	10	10	15,00	18	60	2000	✔	5,84 €
CLL-12	M12 x 1,75	86	48	24	12	12	18,00	20	72	2880	✔	9,45 €

Spring clip

Part number	K	L	ØM	Stock*	Price each 1 to 5
CLLP-5	29	12	5	✔	0,95 €
CLLP-6	35	14	6	✔	1,01 €
CLLP-8	47	19	8	✔	1,02 €
CLLP-10	59	23	10	✔	1,15 €
CLLP-12	71	28	12	✔	1,98 €

**Depending on availability - Dimensions in mm*

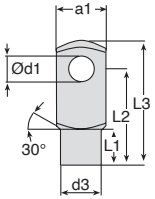
Clevis and clip, short version stainless steel

Sta DIN

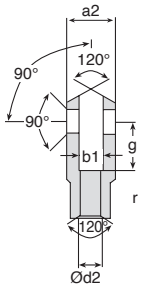
CLSss
CLPss

With stainless steel circlips

- ***Trunnion link***
- *Material: stainless steel 303*
- *To DIN 71752, DIN 471-UNI7435*
- ***Spring clip supplied with 2 circlips***



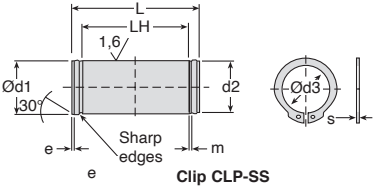
Clevis CLS-SS











Clip CLP-SS

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-10%	-20%	On request

Clevis

Part number	Ød2 (6H)	b1 (B13)	a1 (h11)	a2	Ød1 (h9)	d3 ±0,3	L1 ±0,2	L3 ±0,5	L2 ±0,3	g ±0,5	Static load Co (daN)	Stock*	Price each. 1 to 5
CLS-5SS	M5x0,80	5	10	$10^{+0,30}_{-0,16}$	5	9	7,5	26	20	10	500	✔	7,56 €
CLS-6SS	M6x1,00	6	12	$12^{+0,30}_{-0,16}$	6	10	9,0	31	24	12	720	✔	8,11 €
CLS-8SS	M8x1,23	8	16	$16^{+0,30}_{-0,16}$	8	14	12,0	42	32	16	1280	✔	13,64 €
CLS-10CSS	M10x1,25	10	20	$20^{+0,30}_{-0,16}$	10	18	15,0	52	40	20	-	✔	31,48 €
CLS-12SS	M12x1,75	12	24	$24^{+0,30}_{-0,16}$	12	20	18,0	62	48	24	2880	✔	41,02 €
CLS-16CSS	M16x1,5	16	32	$32^{+0,30}_{-0,16}$	16	26	24,0	83	64	32	-	✔	96,84 €
CLS-20CSS	M20x1,5	20	40	$40^{+0,50}_{-0,20}$	20	34	30,0	105	80	40	-	-	On request

Clip

Part number	Ød1 (h11)	d2	L +0,3	LH ±0,3	m (H13)	e	Circlip size Ød3	Circlip size s (h11)	Stock*	Price each. 1 to 5
CLP-5SS	5	$4,8^{0}_{-0,048}$	15,0	10,5	0,7	0,5	$4,7^{+0,04}_{-0,15}$	0,6	✔	2,66 €
CLP-6SS	6	$5,7^{0}_{-0,048}$	17,0	12,5	0,8	0,5	$5,6^{+0,04}_{-0,15}$	0,7	✔	2,59 €
CLP-8SS	8	$7,6^{0}_{-0,058}$	21,5	16,5	0,9	0,5	$7,4^{+0,06}_{-0,18}$	0,8	✔	2,85 €
CLP-10SS	10	$9,6^{0}_{-0,058}$	26,0	20,5	1,1	0,5	$9,3^{+0,1}_{-0,36}$	1,0	✔	3,28 €
CLP-12SS	12	$11,5^{0}_{-0,110}$	31,0	24,5	1,1	1,0	$11,0^{+0,1}_{-0,36}$	1,0	✔	4,31 €
CLP-16SS	16	$15,2^{0}_{-0,110}$	40,0	32,5	1,1	1,0	$14,7^{+0,1}_{-0,36}$	1,0	✔	4,28 €
CLP-20SS	20	$19,0^{0}_{-0,130}$	50,0	40,5	1,3	1,5	$18,5^{+0,13}_{-0,42}$	1,2	✔	11,35 €

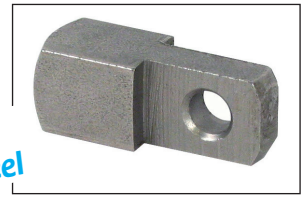
**Depending on availability - Dimensions in mm*

Male clevis end

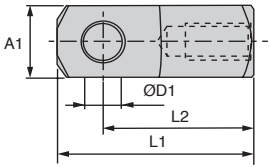
Steel or stainless steel

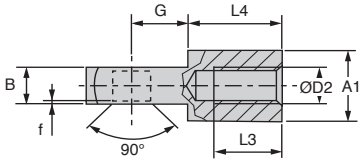
CLM
CLMss

- **Clevis link**
- **Threaded end piece for clevis conforming to DIN71752, short version**
- Steel 11SMnPb30+C, *galvanised*
- Stainless steel 303



steel or stainless steel





DISCOUNTS Steel

Qty	1+	10+	20+	50+
Disc.	List	-10%	-15%	On request

DISCOUNTS Stainless steel

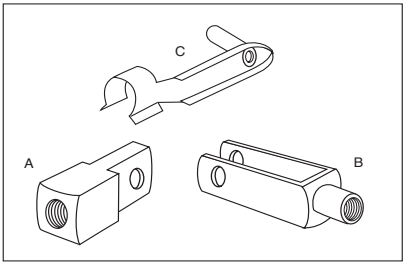
Qty	1+	4+	10+	20+
Disc.	List	-10%	-15%	On request

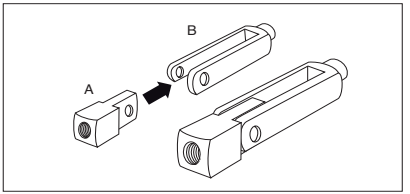
Part number	ØD1 H9	ØD2	B	A1 h11	L1 +/-0,5	L2 +/-0,3	L3	L4 +/-0,2	G +/-0,5	f +/-0,2	Weight (g)	Stock*	Price each 1 to 5
Steel													
CLM-4	4	M4x0,7	4	8	21	16	6	10,0	6,0	0,5	6	✔	2,21 €
CLM-5	5	M5x0,8	5	10	26	20	8	12,5	7,5	0,5	12	✔	3,03 €
CLM-6	6	M6x1	6	12	31	24	11	15,0	9,0	0,5	21	✔	2,37 €
CLM-8	8	M8x1,25	8	16	42	32	14	20,0	12,0	0,5	51	✔	3,95 €
CLM-10	10	M10x1,5	10	20	52	40	18	25,0	15,0	0,5	98	✔	8,70 €
CLM-12	12	M12x1,75	12	24	62	48	22	30,0	18,0	0,5	168	✔	11,47 €
CLM-16	16	M16x2	16	32	83	64	30	40,0	24,0	1,0	397	✔	21,61 €
Stainless steel													
CLM-4/SS	4	M4x0,7	4	8	21	16	6	10,0	6,0	0,5	6	✔	5,31 €
CLM-5/SS	5	M5x0,8	5	10	26	20	8	12,5	7,5	0,5	12	✔	5,69 €
CLM-6/SS	6	M6x1	6	12	31	24	11	15,0	9,0	0,5	21	✔	8,04 €
CLM-8/SS	8	M8x1,25	8	16	42	32	14	20,0	12,0	0,5	51	✔	9,12 €
CLM-10/SS	10	M10x1,5	10	20	52	40	18	25,0	15,0	0,5	98	✔	15,58 €
CLM-12/SS	12	M12x1,75	12	24	62	48	22	30,0	18,0	0,5	168	-	27,85 €
CLM-16/SS	16	M16x2	16	32	83	64	30	40,0	24,0	1,0	397	-	119,65 €

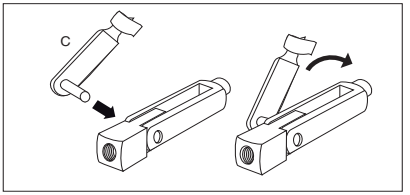
**Depending on availability - Dimensions in mm*

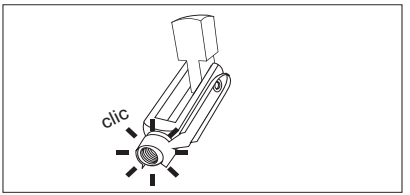
Clevis and clip

Instruction guide





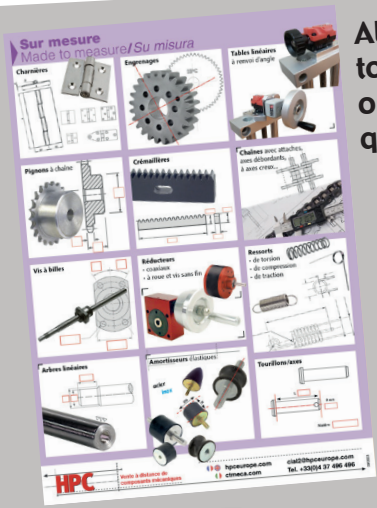




Free guide available

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on HPCEUROPE.COM



All items manufactured to order individually or in small/medium quantities



FREE GUIDE

SHOCK ABSORBER



p.335

WELL NUT



p.341

DIABOLO SHAPE ANTI VIBRATION MOUNT



p.342

ANTI VIBRATION MOUNT

stainless steel



p.348

CYLINDRICAL ANTI VIBRATION MOUNT

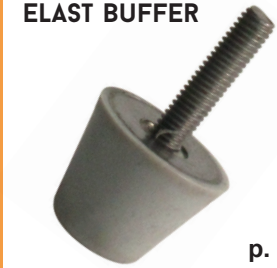


p.350

DAMPER

P. 334-365

SILICONE CONICAL ELAST BUFFER



p. 362

FLEXIBLE BUSH



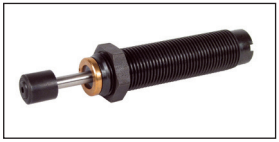
p. 364

Self-compensating shock absorber

MC

Not adjustable

- MC25 and MC75: integrated stroke end stop and noise reducing buffer
- Working temperature 0 to +65°C
- Materials:
  Body: blackened steel
  Rod: stainless steel
  Buffer: steel with elastomer insert (MC25 and MC75 only)

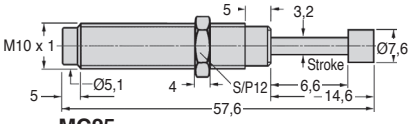


Info.

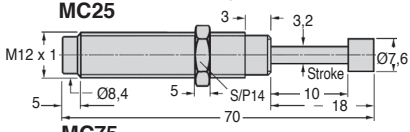
- MC150: to avoid damaging the EPDM membrane **do not turn the rod**
- For better heat dissipation, do not paint shock-absorbers

Accessories

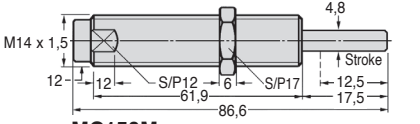
- See stroke end stop
  STC (tome 1 p.337)
  and universal flange
  MF (tome 1 p.336)



MC25



MC75



MC150M

DISCOUNTS

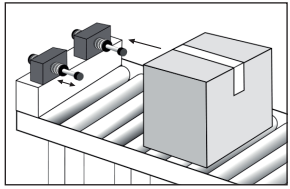
Qty	1+	4+	6+
Disc.	List	-10%	On request

Part number	Effective Weight (kgme) Min	Effective Weight (kgme) Max	Max capacity (Nm) Per cycle W3	Max capacity (Nm) Per hour W4	Return spring force (N)	Rod reset time (S)	Max. side load angle	Stock*	Price each 1 to 3
MC25-ML	0,7	2,2	2,8	22600	3-6	0,3	2°	-	91,32 €
MC25-M	1,8	5,4	2,8	22600	3-6	0,3	2°	✔	76,97 €
MC25-MH	4,6	13,6	2,8	22600	3-6	0,3	2°	✔	78,36 €
MC75-M1	0,3	1,1	9,0	28200	4-9	0,3	2°	-	123,48 €
MC75-M2	0,9	4,8	9,0	28200	4-9	0,3	2°	✔	123,48 €
MC75-M3	2,7	36,2	9,0	28200	4-9	0,3	2°	✔	123,48 €
MC150-M	0,9	10,0	20,0	34000	3-8	0,4	4°	✔	163,57 €
MC150-MH	8,6	86,0	20,0	34000	3-8	0,4	4°	✔	163,57 €
MC150-MH2	70,0	200,0	20,0	34000	3-8	0,4	4°	-	191,99 €

*Depending on availability - Dimensions in mm

- ***Standard part with locknut and knob***
- *Materials:*
  Body: blackened steel
  Rod: stainless steel
- *Adjustment. The adjustment ring is calibrated from 0 to 9. The adjustment knob is secured by a set screw which must be slackened with a 1.5mm Allen key before carrying out adjustment (do not remove completely). After installing the shock absorber, cycle the machine a few times and alter the adjustment so that optimum deceleration is achieved. For hard impact at start of stroke turn ring towards 9, for harder impact at the end of the stroke, turn towards 0. Retighten the set screw.*
- *Max. impact velocity 3,6m/s*
- *Working temperature -12° to +90°C*
- *Stroke end stop and anti-noise buffer are both integrated*
- *Max. side local angle: 2° (except RMSA-900 : 1°)*

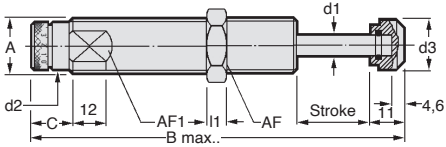




Typical application

Uses

- *Upon impact of the load the piston moves back causing an immediate build up of internal pressure. Oil is then allowed to pass through the metering orifices bringing the load smoothly to rest. Fast reset is assured by an anti-return valve and spring incorporated in the piston.*



DISCOUNTS

Qty	1+	4+	6+
Disc.	List	-10%	On request

Accessories

- *Universal flange* ***STC*** *(**tome** 1 **p.337**)*
- *Stroke end stop* ***MF*** *(**tome** 1 **p.336**)*

Part number	Stroke (mm)	A	B	C	d1	d2	d3	l1	AF	AF1
RMSA-500	19,00	M20 x 1,5	118	13,5	4,8	17,0	17,0	8	23	18
RMSA-600	25,40	M25 x 1,5	143	16,5	6,3	22,4	23,0	10	30	23
RMSA-900	40,00	M25 x 1,5	189	16,5	6,3	22,4	23,0	10	30	23

Part number	Max. energy capacity (Nm) per cycle W3	per hour W4	Effective weight (kgme) Min (kg)	Max (kg)	Return spring force Min. (N)	Max. (N)	Rod time reset (S)	Weight (kg)	Stock*	Price each 1 to 3
RMSA-500	25	45 000	2,30	226	5	10	0,10	0,13	✔	175,06 €
RMSA-600	68	68 000	9,00	1 360	10	30	0,20	0,31	✔	298,38 €
RMSA-900	100	90 000	14,00	2 040	10	35	0,40	0,40	-	419,16 €

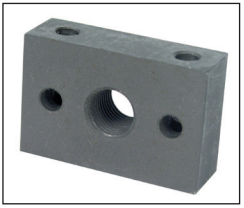
**Depending on availability - Dimensions in mm*

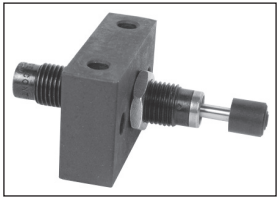
Shock absorber - universal flange

MF

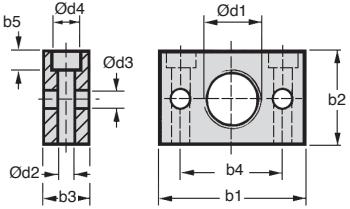
Mounting accessory

- Universal flange for shock absorber

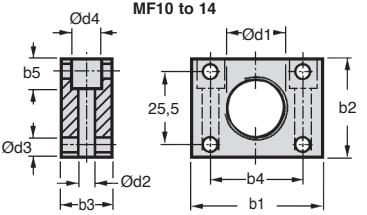




Typical application



MF10 to 14



MF20 to 25

DISCOUNTS

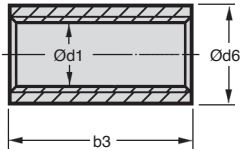
Qty	1+	6+	10+	15+
Disc.	List	-10%	-15%	On request

Part number	Ød1	Ød2	Ød3	Ød4	b1	b2	b3	b4	b5	For shock absorber	Stock*	Price each 1 to 5
MF-10	M10x1	4,5	4,5	8	38	25	12	25	5	MC25	✔	34,28 €
MF-12	M12x1	4,5	4,5	8	38	25	12	25	5	MC75	✔	39,18 €
MF-14	M14x1,5	4,5	4,5	8	45	29	16	35	5	MC150	-	42,16 €
MF-20	M20x1,5	5,5	5,5	10	47	35	16	35	10	RMSA500	-	52,39 €
MF-25	M25x1,5	5,5	5,5	10	47	35	16	35	10	RMSA600-900	-	65,47 €

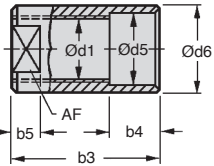
**Depending on availability - Dimensions in mm*

- ***Stop collar for shock absorber***
- *Please note: for certain shock absorbers, the use of this stop collar is essential*





STC10 to 12



STC14 to 25



Typical application

DISCOUNTS

Qty	1+	4+	6+
Disc.	List	-10%	On request

Part number	Ød1	Ød5	Ød6	b3	b4	b5	AF	For shock-absorber	Stock*	Price each 1 to 3
STC10	M10x1	-	14,3	20	-	-	-	MC25	✔	13,82 €
STC12	M12x1	-	16,0	20	-	-	-	MC75	✔	13,82 €
STC14	M14x1,5	14,5	18,0	19	12	6	13	MC150	-	15,00 €
STC20	M20x1,5	20,5	25,0	25	12	8	22	RMSA500	-	22,35 €
STC25	M25x1,5	25,5	32,0	45	16	10	27	RMSA600-900	-	40,88 €

**Depending on availability - Dimensions in mm*

Shock absorber

Formulae and examples of calculation

A shock absorber decelerates linearly. Roughly 90% of shock absorber applications can be modelled if the following 4 factors are known:

1. Mass to slow down m (kg) 2. Impact velocity v_o (m/s)
3. Propelling force F (N) 4. Shocks per hour C (hr)

Symbols used in the formulae:

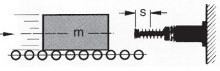
W_1	Kinetic enerngy	(Nm)
W_2	Propelling energy	(Nm)
W_3	Total energy per cycle (W_1+W_2)	(Nm)
W_4	Total energy per hour (W_3C)	(Nm/hr)
me	Effective weight	(kgme)
m	Mass to slow down	(kg)
*v	Velocity or moving mass	(m/s)
*v_D	Impact velocity of shock absorber	(m/s)
ω	Angular velocity	(rad/s)
F	Propelling force	(N)
C	Number of shocks per hour	(/hr)
P	Motor power	(kW)
ST	Setting coefficient (normally 2.5)	1 à 2.5

M	Propelling torque	(Nm)
I	Moment of inertia	(kgm²)
g	Gravity = 9,81	(m/s²)
h	Drop height exc. shock abs. stroke	(m)
s	Shock absorber stroke	(m)
Q	Reactive force	(N)
μ	Friction coefficient	
t	Braking time	(sec)
a	Side load inclination	(m/sec²)
α	Radius of inclination	(°)
β	Angle of inclination	(°)
L	Radius of mass	(m)
R	Dist. pivot/installation pt. of damp.	(m)
r	Dist. pivot/force application pt.	(m)

1. *Mass without propelling force*

Formulae :

$W_1 = m \cdot v^2 \cdot 0,5$
$W_2 = 0$
$W_3 = W_1 + W_2$
$W_4 = W_3 \cdot C$
$v_D = v$
$me = m$

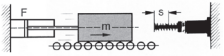


2. *Mass with propelling force*

Formulae :

$W_1 = m \cdot v^2 \cdot 0,5$
$W_2 = F \cdot s$
$W_3 = W_1 + W_2$
$W_4 = W_3 \cdot C$
$v_D = v$

$$me = \frac{2 \cdot W_3}{v_D^2}$$



2.1 Mass moving upwards
$W_2 = (F - m \cdot g). s$
2.2 Mass moving downwards
$W_2 = (F + m \cdot g). s$

3. *Mass pulled by a motor*

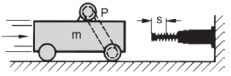
Formulae :

$W_1 = m \cdot v^2 \cdot 0,5$

$$W_2 = \frac{1000 \cdot P \cdot ST \cdot s}{v}$$

$W_3 = W_1 + W_2$
$W_4 = W_3 \cdot C$
$v_D = v$

$$me = \frac{2 \cdot W_3}{v_D^2}$$

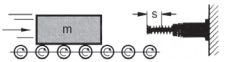


4. *Mass on motorised rollers*

Formulae :

$W_1 = m \cdot v^2 \cdot 0,5$
$W_2 = m \cdot \mu \cdot g \cdot s$
$W_3 = W_1 + W_2$
$W_4 = W_3 \cdot C$
$v_D = v$

$$me = \frac{2 \cdot W_3}{v_D^2}$$



5. *Swinging mass with propelling force*

Formulae :

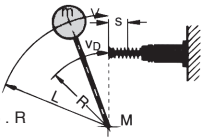
$W_1 = m \cdot v^2 \cdot 0,5$

$$W_2 = \frac{M \cdot s}{R}$$

$W_3 = W_1 + W_2$
$W_4 = W_3 \cdot C$

$$v_D = \frac{v \cdot R}{L} = \omega \cdot R$$

$$me = \frac{2 \cdot W_3}{v_D^2}$$



*v or v_D is the impact velocity of the mass. In the case of an accelerated movement (for example when the mass is deplaced by a pneumatic cylinder), **the impact velocity can be 1.5 to 2 times greater than the average velocity.***

6. Free falling mass

Formulae :

$W_1 = m \cdot g \cdot h$

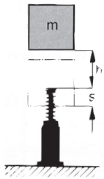
$W_2 = m \cdot g \cdot s$

$W_3 = W_1 + W_2$

$W_4 = W_3 \cdot C$

$v_D = \sqrt{2 \cdot g \cdot h}$

$me = \frac{2 \cdot W_3}{v_D^2}$



6.1 Mass rolling or sliding on an inclined plane

Formulae :

$W_1 = m \cdot g \cdot h = m \cdot v_D^2 \cdot 0,5$

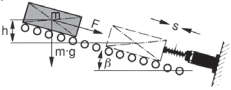
$W_2 = m \cdot g \cdot \sin\beta \cdot s$

$W_3 = W_1 + W_2$

$W_4 = W_3 \cdot C$

$v_D = \sqrt{2 \cdot g \cdot h}$

$me = \frac{2 \cdot W_3}{v_D^2}$



6.1a Mass with upwards propelling force

$W_2 = (F - m \cdot g \cdot \sin\beta). s$

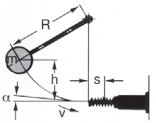
6.1b Mass with downwards propelling force

$W_3 = (F + m \cdot g \cdot \sin\beta). s$

6.2 Mass free falling abut a pivot point

Formulae: Follow calculation for example 6.1. Verify the radial load.

$\tan\alpha = \frac{s}{R}$



7. Rotary index table with propelling torque

Formulae :

$W_1 = m \cdot v^2 \cdot 0,25$

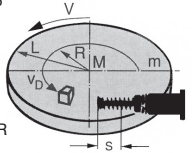
$W_2 = \frac{M \cdot s}{R}$

$W_4 = W_1 + W_2$

$W_4 = W_3 \cdot C$

$v_D = \frac{v \cdot R}{L} = \omega \cdot R$

$me = \frac{2 \cdot W_3}{v_D^2}$



NOTE: *mass evenly spread*

8. Rotating mass with propelling torque

Formulae :

$W_1 = m \cdot v^2 \cdot 0,18$

NOTE: *mass evenly spread*

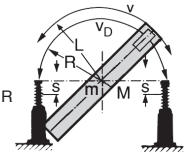
$W_2 = \frac{M \cdot s}{R}$

$W_3 = W_1 + W_2$

$W_4 = W_3 \cdot C$

$v_D = \frac{v \cdot R}{L} = \omega \cdot R$

$me = \frac{2 \cdot W_3}{v_D^2}$



9. Rotating mass with propelling force

Formulae :

$W_1 = m \cdot v_D^2 \cdot 0,18$

NOTE: *mass evenly spread*

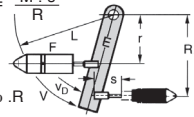
$W_2 = \frac{F \cdot r \cdot s}{R} = \frac{M \cdot s}{R}$

$W_3 = W_1 + W_2$

$W_4 = W_3 \cdot C$

$v_D = \frac{v \cdot R}{L} = \omega \cdot R$

$me = \frac{2 \cdot W_3}{v_D^2}$



10. Mass in controlled descent without propelling force

Formulae :

$W_1 = m \cdot v^2 \cdot 0,5$

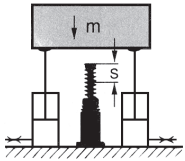
$W_2 = m \cdot g \cdot s$

$W_3 = W_1 + W_2$

$W_4 = W_3 \cdot C$

$v_D = v$

$me = \frac{2 \cdot W_3}{v_D^2}$



These formulae will give you approximate values to assist in the selection of a shock absorber but a safety margin should always be applied. (Precise values can only be calculated if actual parameters are known).

Reactive force Q(N)

$Q = \frac{1,2 \cdot W_3}{s}$

Braking time (s)

$t = \frac{2,6 \cdot s}{v_D}$

Deceleration (m/s²)

$a = \frac{0,6 \cdot v_D^2}{s}$

Shock absorber

Request for technical assistance with your application

If you would like assistance with an application, please enlarge this form by 200% (to A4 size), fill in as much information as possible and return it by mail to our technical team: **email : cial2@hpceurope.com**

Company _____ Contact _____

Address _____

_____

Telephone _____ Fax _____

For which machine, fitting or application do you need help selecting a shock absorber?

_____

What material is there at the end of stroke?

Rubber cushion	❒	Shock-absorbing cylinder	❒
Brake cylinder	❒	No shock-absorber	❒
Other	❒		

What problems do you have?

Safety	❒	Stopping too quickly	❒
Stopping too slowly	❒	Incorrect deceleration	❒
Frequent breakages/faults	❒	Continuous operation	❒

Please see preceding pages to select your intended use.

Otherwise use the space below for a sketch or any other description thereof.

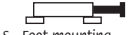
Fixtures



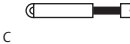
R - Flange behind



F - Flange in front



S - Foot mounting



C -

Oscillating mounting

Total weight of mass to be dampened	**m** (kg)	_____
Impact velocity on shock-absorber	**vD** (m/s)	_____
Propelling force of cylinder or other	**F** (N)	_____
Electric motor power	**P** (kW)	_____
No of shocks per hour	**C** (1/h)	_____
N° of shock-absorbers in parallel	**n** ()	_____
(Desired) shock-absorber stroke length	**s** (mm)	_____
Total height of fall	**h** (m)	_____
Torque	**M** (Nm)	_____
Friction coefficient	μ	_____
Radius L/R/r	**(m)**	_____
Other info.		_____

External influences - Application

Ouside	❒
Extrusions into soft water	❒
Extrusions into sea water	❒
Marine environment	❒
Acidic environment	❒
Electrical contact	❒
In foundry	❒
In pneumatic cylinder	❒
Temperature	_____
Other	_____

ECF

Elastomer

- ***Flanged chloroprene elastomer moulded into a nut***

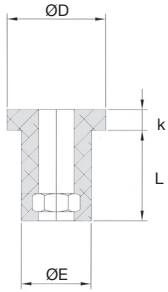


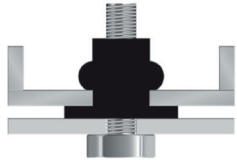
Advantages

- *Cost effective*
- *Isolation of noise and resonance*
- *Oil, fats, and ozone-resistant*
- *Simple and tool free installation*
- *Can be mounted in:*
  Compression - shearing
  Compression/shearing
- *Working temperature range: -30°C to +80°C*
- *Isolated vibrations from 120 to 150Hz*

Info.

- ***Not sold individually, please contact us for details***





Mounting type 1



Mounting type 2

DISCOUNTS

Qty	1+	13+	29+	41+	60+
Disc.	List	-10%	-15%	-20%	On request

Part number	Thread	ØD	ØE	L	K	Stock*	Price each 1 to 12
ECF3	M3	9	7,2	9,0	2,5	✔	1,99 €
ECF4	M4	12	9,3	11,5	3,0	✔	2,19 €
ECF5	M5	15	10,2	14,5	3,5	✔	2,54 €
ECF6	M6	18	12,7	17,0	4,0	✔	2,84 €
ECF8	M8	24	16,6	22,0	5,0	✔	3,14 €

**Depending on availability - Dimensions in mm*

Diabolo-shaped anti vibration mount Ste Stock

AT-ZY — Male / male mounting

- ***Radial elasticity greater than axial elasticity***
- *Works under compression or shear*
- *Materials:*
  core: Steel plates
  cylinder: Rubber
- ***Hardness: NK 55-60 shore A***
- *Working temp: -40°C to +70°C*

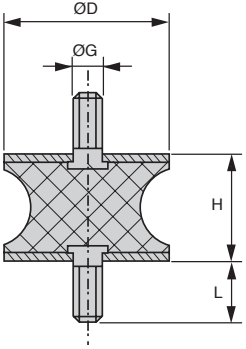


Applications

- *Dampening sound and vibrations*



High flexibility



DISCOUNTS

Qty	1+	6+	20+	40+	100+	200+
Disc.	List	-10%	-20%	-30%	-40%	On request

Part number	ØG	ØD	H	L	Stock*	Price each 1 to 5
AT-ZY4-10-10	M4	10	10	10	✔	2,27 €
AT-ZY6-20-15	M6	20	15	18	✔	4,62 €
AT-ZY6-20-30	M6	20	30	12	✔	4,62 €
AT-ZY6-25-20	M6	25	20	12	✔	4,96 €
AT-ZY8-30-20	M8	30	20	20	✔	6,79 €
AT-ZY8-40-30	M8	40	30	20	✔	9,09 €
AT-ZY8-40-48	M8	40	48	23	✔	13,71 €
AT-ZY10-40-28	M10	40	28	20	-	10,08 €
AT-ZY10-46-25	M10	46	25	20	-	14,67 €
AT-ZY10-50-30	M10	50	30	33	-	16,78 €
AT-ZY12-75-40	M12	75	40	37	-	25,23 €
AT-ZY16-100-55	M16	100	55	45	-	83,66 €

**Depending on availability - Dimensions in mm*

Stainless steel Diabolo shaped anti vibration mount

Male / male mounting

AT-ZYss

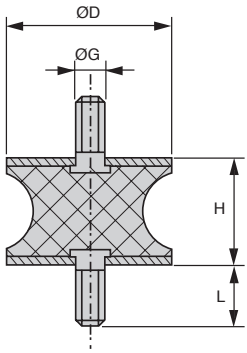
- ***Radial elasticity greater than axial elasticity***
- *Works under both compression or shear*
- *Materials :*
  Core : Stainless steel (A2)
  Cylinder : Rubber
- ***Hardness NK55-60 Shore A***
- *Working temp: -40°C to +70°C*



Applications

- *Dampening sound and vibrations*





DISCOUNTS

Qty	1+	6+	20+	40+	100+
Disc.	List	-10%	-15%	-20%	On request

Part number	ØG	ØD	H	L	Stock*	Price each 1 to 5
AT-ZY4-10-10/SS	M4	10	10	10	✔	4,50 €
AT-ZY6-20-15/SS	M6	20	15	18	✔	6,76 €
AT-ZY6-20-30/SS	M6	20	30	12	✔	7,51 €
AT-ZY6-25-20/SS	M6	25	20	18	✔	7,51 €
AT-ZY8-30-20/SS	M8	30	20	20	✔	11,55 €
AT-ZY8-40-30/SS	M8	40	30	20	✔	20,43 €
AT-ZY8-40-48/SS	M8	40	48	23	✔	21,19 €
AT-ZY10-40-28/SS	M10	40	28	20	-	20,43 €
AT-ZY10-46-25/SS	M10	46	25	20	-	24,22 €
AT-ZY10-50-30/SS	M10	50	30	33	-	24,22 €

**Depending on availability - Dimensions in mm*

Diabolo-shaped anti vibration mount Stock

CT-ZY — Female / female mounting

- ***Radial elasticity greater than axial elasticity***
- *Works under compression or shear*
- *Materials:*
  core: Steel plates
  cylinder: Rubber
- ***Hardness: NK 55-60 shore A***
- *Working temp: -40°C to +70°C*

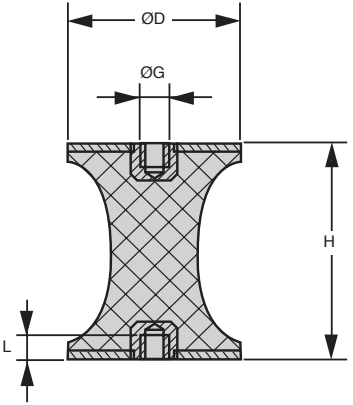


Applications

- *Dampening sound and vibrations*



High flexibility



DISCOUNTS

Qty	1+	6+	20+	40+	100+	200+
Disc.	List	-10%	-15%	-20%	-25%	On request

Part number	ØG	ØD	H	L	Stock*	Price each 1 to 5
CT-ZY4-10-10	M4	10	10	4	✔	2,27 €
CT-ZY8-30-20	M8	30	20	8	✔	6,79 €
CT-ZY8-40-48	M8	40	48	8	✔	13,71 €
CT-ZY10-50-30	M10	50	30	10	-	24,05 €

**Depending on availability - Dimensions in mm*

Sta Diabolo shaped stainless steel anti vibration mount

Female / female mounting

CT-ZYss

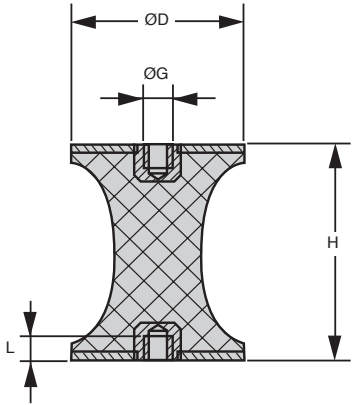
- ***Radial elasticity greater than axial elasticity***
- *Works under both compression and shear*
- *Materials :*
  Core: Stainless steel (A2)
  Cylinder: Rubber
- ***Hardness NK55-60 Shore A***
- *Working temp: -40°C to +70°C*



Applications

- *Dampening sound and vibrations*





DISCOUNTS

Qty	1+	6+	20+	40+	100+
Disc.	List	-10%	-15%	-20%	On request

Part number	ØG	ØD	H	L	Stock*	Price each 1 to 5
CT-ZY4-10-10/SS	M4	10	10	4	✔	4,49 €
CT-ZY8-30-20/SS	M8	30	20	8	✔	10,19 €
CT-ZY8-40-48/SS	M8	40	48	8	✔	21,13 €
CT-ZY10-50-30/SS	M10	50	30	10	-	33,26 €

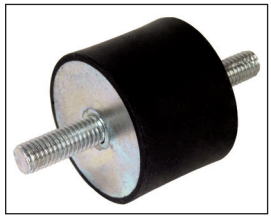
**Depending on availability - Dimensions in mm*

Cylindrical anti vibration mount

A-ZY

Male / male mounting

- ***Radial elasticity greater than axial elasticity***
- *Works under compression or shear*
- *Materials*
  core: Steel plates
  cylinder: Rubber
- ***Hardness: NK 55-60 shore A***
- *Working temp: -40°C to +70°C*



applications

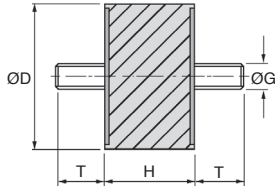
- *Dampening sound and vibrations*

Options

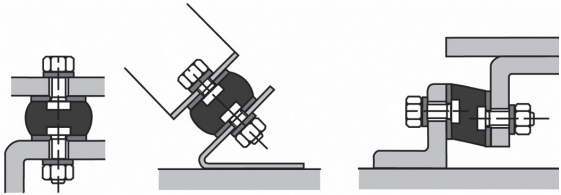
- *Stainless steel version available on request*

Info.

- ***Not sold individually, please contact us for details***
- *Values for loads and rigidity are given as a guide only*



From size M3 upwards



Compression

Compression Shear

Shear

DISCOUNTS Ⓐ

Qty	1+	6+	20+	40+	100+	200+
Disc.	List	-10%	-15%	-20%	-25%	On request

DISCOUNTS Ⓑ

Qty	1+	6+	10+	15+	20+	50+
Disc.	List	-10%	-15%	-20%	-25%	On request

Part number	ØG	ØD	H	T	Compression stiffness (N/mm)	Compression Max. load(N)	Shear stiffness (N/mm)	Shear Max. load(N)	Stock*	Price each 1 to 5
A-ZY3-8-8	M3	8	8	6	-	-	-	-	✔	Ⓐ2,11 €
A-ZY4-10-10	M4	10	10	10	44	43	9	15	✔	Ⓐ1,94 €
A-ZY4-15-7	M4	15	7	10	174	95	29	35	-	Ⓐ1,84 €
A-ZY4-15-8	M4	15	8	10	160	95	27	35	-	Ⓐ1,84 €
A-ZY4-15-10	M4	15	10	10	124	95	24	35	-	Ⓐ1,94 €
A-ZY4-15-15	M4	15	15	10	61	95	13	35	✔	Ⓐ2,03 €
A-ZY4-15-20	M4	15	20	10	-	-	-	-	✔	Ⓐ2,28 €
A-ZY5-15-15	M5	15	15	8	61	95	24	35	✔	Ⓐ2,11 €
A-ZY6-20-8	M6	20	8	18	307	170	36	60	✔	Ⓐ2,28 €
A-ZY6-20-10	M6	20	10	18	-	-	-	-	✔	Ⓐ2,37 €
A-ZY6-20-15	M6	20	15	18	130	170	24	60	✔	Ⓐ2,37 €
A-ZY6-20-20	M6	20	20	18	-	-	-	-	✔	Ⓐ2,55 €
A-ZY6-20-25	M6	20	25	18	85	170	17	60	✔	Ⓐ2,55 €
A-ZY6-25-10	M6	25	10	18	750	280	74	95	✔	Ⓐ2,55 €
A-ZY6-25-15	M6	25	15	18	-	-	-	-	✔	Ⓐ2,89 €
A-ZY6-25-20	M6	25	20	18	-	-	-	-	✔	Ⓐ3,07 €
A-ZY6-25-25	M6	25	25	18	-	-	-	-	✔	Ⓐ3,27 €
A-ZY8-30-15	M8	30	15	20	525	400	58	140	✔	Ⓐ3,87 €
A-ZY8-30-20	M8	30	20	20	204	400	40	140	✔	Ⓐ4,13 €
A-ZY8-30-25	M8	30	25	20	-	-	-	-	✔	Ⓐ4,30 €
A-ZY8-30-30	M8	30	30	20	108	400	25	140	✔	Ⓐ4,85 €
A-ZY8-30-40	M8	30	40	20	-	-	-	-	✔	Ⓐ5,72 €
A-ZY8-40-25	M8	40	25	23	-	-	-	-	✔	Ⓐ6,34 €
A-ZY8-40-30	M8	40	30	23	213	650	43	250	✔	Ⓐ6,61 €
A-ZY10-40-25	M10	40	25	28	-	-	-	-	-	Ⓐ6,34 €
A-ZY10-40-30	M10	40	30	28	-	-	-	-	✔	Ⓐ6,70 €
A-ZY10-50-20	M10	50	20	28	857	1000	110	400	✔	Ⓐ8,18 €
A-ZY10-50-30	M10	50	30	28	375	1000	66	400	✔	Ⓐ9,24 €
A-ZY10-50-40	M10	50	40	28	260	1000	53	400	✔	Ⓐ10,57 €
A-ZY10-50-45	M10	50	45	28	215	1000	43	400	-	Ⓐ11,11 €
A-ZY10-50-50	M10	50	50	28	-	-	-	-	✔	Ⓐ11,46 €
A-ZY10-60-40	M10	60	40	28	-	-	-	-	-	Ⓐ16,00 €
A-ZY10-70-45	M10	70	45	28	-	-	-	-	✔	Ⓐ22,83 €
A-ZY12-60-40	M12	60	40	33	-	-	-	-	✔	Ⓑ10,59 €
A-ZY12-75-25	M12	75	25	37	2710	2300	211	850	✔	Ⓑ12,46 €
A-ZY12-75-40	M12	75	40	37	734	2300	117	850	✔	Ⓑ13,78 €
A-ZY12-75-50	M12	75	50	37	506	2300	91	850	-	Ⓑ16,05 €
A-ZY12-75-55	M12	75	55	37	417	2300	78	850	✔	Ⓑ16,71 €
A-ZY16-100-40	M16	100	40	41	1970	4200	257	1600	-	Ⓑ25,06 €
A-ZY16-100-55	M16	100	55	41	892	4200	145	1600	-	Ⓑ27,93 €
A-ZY16-100-75	M16	100	75	41	-	-	-	-	-	Ⓑ37,67 €

*Depending on availability - Dimensions in mm

Stainless steel anti vibration mount

A-ZYss

Male / male mounting

- ***Radial elasticity greater than axial elasticity.***
- *Works under compression or shear*
- *Materials:*
  Core: Steel plates
  Cylinder: Rubber
- ***Hardness: NK 55-60 shore A***
- *Working temp: -40°C to +70°C*

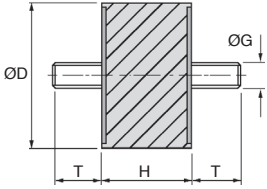
Applications

- *Dampening sound and vibrations*

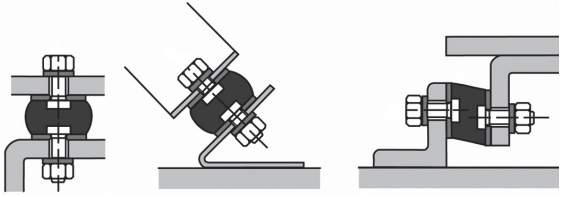
Info.

- ***Not sold individually, please contact us for details***
- *Values for loads and rigidity are given as a guide only*





From size M3 upwards



Compression | **Compression Shear** | **Shear**

DISCOUNTS A

Qty	1+	6+	20+	40+	100+
Disc.	List	-10%	-15%	-20%	On request

DISCOUNTS B

Qty	1+	6+	10+	15+	20+	50+
Disc.	List	-10%	-15%	-20%	-25%	On request

Part number	ØG	ØD	H	T	Compression stiffness (N/mm)	Compression Max. load (N)	Shear stiffness (N/mm)	Shear Max. load (N)	Stock*	Price each 1 to 5
A-ZY3-8-8/SS	M3	8	8	6	-	-	-	-	✔	A 3,81 €
A-ZY4-10-10/SS	M4	10	10	10	44	43	9	15	✔	A 3,81 €
A-ZY4-15-7/SS	M4	15	7	10	174	95	29	35	-	A 5,48 €
A-ZY4-15-8/SS	M4	15	8	10	160	95	27	35	-	A 3,41 €
A-ZY4-15-10/SS	M4	15	10	10	124	95	24	35	✔	A 3,55 €
A-ZY4-15-15/SS	M4	15	15	10	61	95	13	35	-	A 3,55 €
A-ZY4-15-20/SS	M4	15	20	10	-	-	-	-	✔	A 4,04 €
A-ZY5-15-15/SS	M5	15	15	8	61	95	24	35	✔	A 3,43 €
A-ZY6-20-8/SS	M6	20	8	18	307	170	36	60	-	A 5,85 €
A-ZY6-20-10/SS	M6	20	10	18	-	-	-	-	✔	A 4,02 €
A-ZY6-20-15/SS	M6	20	15	18	130	170	24	60	✔	A 4,08 €
A-ZY6-20-20/SS	M6	20	20	18	-	-	-	-	✔	A 4,69 €
A-ZY6-25-25/SS	M6	20	25	18	85	170	17	60	✔	A 4,69 €
A-ZY6-25-10/SS	M6	25	10	18	750	280	74	95	✔	A 6,16 €
A-ZY6-25-15/SS	M6	25	15	18	-	-	-	-	-	A 4,61 €
A-ZY6-25-20/SS	M6	25	20	18	-	-	-	-	✔	A 5,37 €
A-ZY6-25-25/SS	M6	25	25	18	-	-	-	-	✔	A 5,93 €
A-ZY8-30-15/SS	M8	30	15	20	525	400	58	140	✔	A 7,03 €
A-ZY8-30-20/SS	M8	30	20	20	204	400	40	140	✔	A 7,28 €
A-ZY8-30-25/SS	M8	30	25	20	-	-	-	-	✔	A 7,89 €
A-ZY8-30-30/SS	M8	30	30	20	108	400	25	140	✔	A 7,89 €
A-ZY8-30-40/SS	M8	30	40	20	-	-	-	-	✔	A 9,68 €
A-ZY8-40-25/SS	M8	40	25	23	-	-	-	-	✔	A 10,54 €
A-ZY8-40-30/SS	M8	40	30	23	213	650	43	250	✔	A 9,50 €
A-ZY10-40-25/SS	M10	40	25	28	-	-	-	-	✔	A 9,04 €
A-ZY10-40-30/SS	M10	40	30	28	-	-	-	-	✔	A 10,83 €
A-ZY10-50-20/SS	M10	50	20	28	857	1000	110	400	✔	A 13,04 €
A-ZY10-50-30/SS	M10	50	30	28	375	1000	66	400	✔	A 15,75 €
A-ZY10-50-40/SS	M10	50	40	28	260	1000	53	400	✔	A 19,22 €
A-ZY10-50-45/SS	M10	50	45	28	215	1000	43	400	✔	A 15,88 €
A-ZY10-50-50/SS	M10	50	50	28	-	-	-	-	✔	A 20,84 €
A-ZY10-60-40/SS	M10	60	40	28	-	-	-	-	-	A 24,22 €
A-ZY10-70-45/SS	M10	70	45	28	-	-	-	-	-	A 33,34 €
A-ZY12-60-40/SS	M12	60	40	33	-	-	-	-	-	B 21,43 €
A-ZY12-75-25/SS	M12	75	25	37	2710	2300	211	850	✔	B 25,80 €
A-ZY12-75-40/SS	M12	75	40	37	734	2300	117	850	✔	B 28,40 €
A-ZY12-75-50/SS	M12	75	50	37	506	2300	91	850	-	B 32,29 €
A-ZY12-75-55/SS	M12	75	55	37	417	2300	78	850	-	B 34,21 €
A-ZY16-100-40/SS	M16	100	40	41	1970	4200	257	1600	-	B 60,64 €
A-ZY16-100-55/SS	M16	100	55	41	892	4200	145	1600	-	B 66,60 €
A-ZY16-100-75/SS	M16	100	75	41	-	-	-	-	-	B 76,55 €

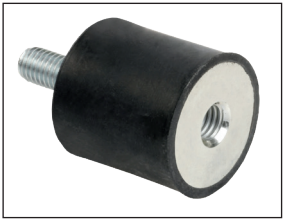
*Depending on availability - Dimensions in mm

Cylindrical anti vibration mount

B-ZY

Male / female mounting

- ***Radial elasticity greater than axial elasticity***
- *Works under compression or shear*
- *Materials*
  core: Steel plates
  cylinder: Rubber
- ***Hardness: NK 55-60 shore A***
- *Working temp: -40°C to +70°C*

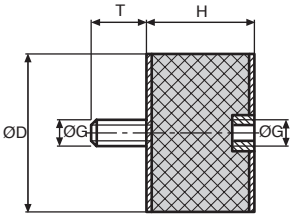


Applications

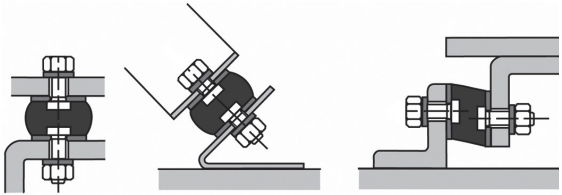
- *Dampening sound and vibrations*

Info.

- ***Not sold individually, please contact us for details***
- *Values for loads and rigidity are given as a guide only*



From size M3 upwards



Compression

Compression Shear

Shear

DISCOUNTS Ⓐ

Qty	1+	6+	20+	40+	100+	200+
Disc.	List	-10%	-15%	-20%	-25%	On request

DISCOUNTS Ⓑ

Qty	1+	6+	10+	15+	20+	50+
Disc.	List	-10%	-15%	-20%	-25%	On request

Part number	ØG	ØD	H	T	Compression stiffness (N/mm)	Compression Max. load (N)	Shear stiffness (N/mm)	Shear Max. load (N)	Stock*	Price each 1 to 5
B-ZY3-8-8	M3	8	8	6	-	-	-	-	✔	Ⓐ 4,13 €
B-ZY4-10-10	M4	10	10	10	48	43	10	35	✔	Ⓐ 2,19 €
B-ZY4-10-15	M4	10	15	10	29	43	5	15	✔	Ⓐ 2,28 €
B-ZY4-15-15	M4	15	15	10	67	95	15	35	✔	Ⓐ 2,46 €
B-ZY4-15-20	M4	15	20	10	-	-	-	-	✔	Ⓐ 2,28 €
B-ZY4-15-30	M4	15	30	15	-	-	-	-	✔	Ⓐ 2,46 €
B-ZY5-15-15	M5	15	15	8	67	95	15	35	✔	Ⓐ 2,46 €
B-ZY6-20-15	M6	20	15	18	130	170	24	60	✔	Ⓐ 2,64 €
B-ZY6-20-20	M6	20	20	18	-	-	-	-	✔	Ⓐ 2,64 €
B-ZY6-20-25	M6	20	25	18	61	170	11	60	✔	Ⓐ 2,64 €
B-ZY6-25-15	M6	25	15	18	-	-	-	-	✔	Ⓐ 2,99 €
B-ZY6-25-20	M6	25	20	18	130	280	30	95	✔	Ⓐ 3,16 €
B-ZY6-25-25	M6	25	25	18	-	-	-	-	✔	Ⓐ 3,34 €
B-ZY6-25-30	M6	25	30	18	71	280	19	95	✔	Ⓐ 3,61 €
B-ZY8-30-15	M8	30	15	20	525	400	58	140	✔	Ⓐ 4,13 €
B-ZY8-30-20	M8	30	20	20	235	400	42	140	✔	Ⓐ 4,30 €
B-ZY8-30-25	M8	30	25	20	-	-	-	-	✔	Ⓐ 4,59 €
B-ZY8-30-30	M8	30	30	20	113	400	28	140	✔	Ⓐ 5,11 €
B-ZY8-30-40	M8	30	40	20	106	400	13	140	✔	Ⓐ 6,00 €
B-ZY8-40-25	M8	40	25	23	-	-	-	-	-	Ⓐ 6,34 €
B-ZY8-40-30	M8	40	30	23	234	650	49	250	✔	Ⓐ 6,70 €
B-ZY8-40-40	M8	40	40	23	147	650	23	250	✔	Ⓐ 7,58 €
B-ZY10-40-30	M10	40	30	28	-	-	-	-	✔	Ⓐ 6,70 €
B-ZY10-50-20	M10	50	20	28	857	1000	110	400	✔	Ⓐ 8,18 €
B-ZY10-50-25	M10	50	25	28	-	-	-	-	-	Ⓐ 8,90 €
B-ZY10-50-30	M10	50	30	28	395	1000	73	400	-	Ⓐ 9,24 €
B-ZY10-50-40	M10	50	40	28	273	1000	58	400	✔	Ⓐ 10,82 €
B-ZY10-50-45	M10	50	45	28	-	-	-	-	-	Ⓐ 11,09 €
B-ZY10-50-50	M10	50	50	28	210	1000	37	400	✔	Ⓐ 11,64 €
B-ZY10-60-40	M10	60	40	28	-	-	-	-	-	Ⓐ 15,87 €
B-ZY10-70-45	M10	70	45	28	-	-	-	-	-	Ⓐ 23,27 €
B-ZY12-60-40	M12	60	40	33	-	-	-	-	✔	Ⓑ 10,55 €
B-ZY12-75-25	M12	75	25	37	-	-	-	-	-	Ⓑ 12,46 €
B-ZY12-75-40	M12	75	40	37	735	2300	118	850	✔	Ⓑ 12,80 €
B-ZY12-75-50	M12	75	50	37	530	2300	101	850	-	Ⓑ 16,20 €
B-ZY12-75-55	M12	75	55	37	417	2300	78	850	-	Ⓑ 16,86 €
B-ZY16-100-40	M16	100	40	41	2160	4200	283	1600	-	Ⓑ 25,41 €
B-ZY16-100-55	M16	100	55	41	892	4200	145	1600	-	Ⓑ 28,89 €
B-ZY16-100-60	M16	100	60	41	843	4200	142	1600	-	Ⓑ 30,31 €
B-ZY16-100-75	M16	100	75	41	-	-	-	-	-	Ⓑ 38,13 €

*Depending on availability - Dimensions in mm

Stainless steel anti vibration mount Stock

B-ZYss

Male / female fixing

- ***Radial elasticity greater than axial elasticity***
- *Works under compression and shear*
- *Materials:*
  core: stainless steel A2 plates
  cylinder: rubber
- ***Hardness: NK 55-60 shore A***
- *Working temp: -40°C to +70°C*

stainless steel



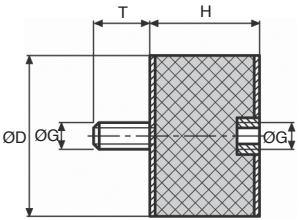
Applications

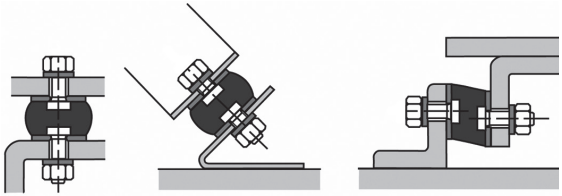
- *Noise and vibration dampening*

Info.

- ***Not sold individually, please contact us for details***
- *Values for loads and rigidity are given as a guide only*

From size M3 upwards





Compression

Compression Shear

Shear

DISCOUNTS Ⓐ

Qty	1+	6+	20+	40+	100+
Disc.	List	-10%	-15%	-20%	On request

DISCOUNTS Ⓑ

Qty	1+	6+	10+	15+	20+	50+
Disc.	List	-10%	-15%	-20%	-25%	On request

Part number	ØG	ØD	H	T	Compression stiffness (N/mm)	Compression Max. load (N)	Shear stiffness (N/mm)	Shear Max. load (N)	Stock*	Price each 1 to 5
B-ZY3-8-8/SS	M3	8	8	6	-	-	-	-	✔	Ⓐ 7,45 €
B-ZY4-10-10/SS	M4	10	10	10	48	43	10	35	✔	Ⓐ 3,90 €
B-ZY4-10-15/SS	M4	10	15	10	29	43	5	15	✔	Ⓐ 4,27 €
B-ZY4-15-15/SS	M4	15	15	10	67	95	15	35	✔	Ⓐ 3,81 €
B-ZY4-15-20/SS	M4	15	20	10	-	-	-	-	-	Ⓐ 4,04 €
B-ZY4-15-30/SS	M4	15	30	15	-	-	-	-	-	Ⓐ 4,19 €
B-ZY5-15-15/SS	M5	15	15	8	67	95	15	35	✔	Ⓐ 4,19 €
B-ZY6-20-15/SS	M6	20	15	18	130	170	24	60	✔	Ⓐ 4,50 €
B-ZY6-20-20/SS	M6	20	20	18	-	-	-	-	✔	Ⓐ 4,61 €
B-ZY6-20-25/SS	M6	20	25	18	61	170	11	60	✔	Ⓐ 4,61 €
B-ZY6-25-15/SS	M6	25	15	18	-	-	-	-	-	Ⓐ 4,97 €
B-ZY6-25-20/SS	M6	25	20	18	130	280	30	95	✔	Ⓐ 5,74 €
B-ZY6-25-25/SS	M6	25	25	18	-	-	-	-	✔	Ⓐ 6,82 €
B-ZY6-25-30/SS	M6	25	30	18	71	280	19	95	✔	Ⓐ 6,01 €
B-ZY8-30-15/SS	M8	30	15	20	525	400	58	140	✔	Ⓐ 7,37 €
B-ZY8-30-20/SS	M8	30	20	20	235	400	42	140	✔	Ⓐ 7,03 €
B-ZY8-30-25/SS	M8	30	25	20	-	-	-	-	✔	Ⓐ 8,20 €
B-ZY8-30-30/SS	M8	30	30	20	113	400	28	140	✔	Ⓐ 8,35 €
B-ZY8-30-40/SS	M8	30	40	20	106	400	13	140	✔	Ⓐ 9,04 €
B-ZY8-40-25/SS	M8	40	25	23	-	-	-	-	-	Ⓐ 9,79 €
B-ZY8-40-30/SS	M8	40	30	23	234	650	49	250	✔	Ⓐ10,28 €
B-ZY8-40-40/SS	M8	40	40	23	147	650	23	250	✔	Ⓐ12,08 €
B-ZY10-40-30/SS	M10	40	30	28	-	-	-	-	-	Ⓐ11,34 €
B-ZY10-50-20/SS	M10	50	20	28	857	1000	110	400	✔	Ⓐ15,76 €
B-ZY10-50-25/SS	M10	50	25	28	-	-	-	-	✔	Ⓐ16,05 €
B-ZY10-50-30/SS	M10	50	30	28	395	1000	73	400	✔	Ⓐ15,75 €
B-ZY10-50-40/SS	M10	50	40	28	273	1000	58	400	✔	Ⓐ17,32 €
B-ZY10-50-45/SS	M10	50	45	28	-	-	-	-	✔	Ⓐ17,13 €
B-ZY10-50-50/SS	M10	50	50	28	210	1000	37	400	✔	Ⓐ19,26 €
B-ZY10-60-40/SS	M10	60	40	28	-	-	-	-	-	Ⓐ22,73 €
B-ZY10-70-45/SS	M10	70	45	28	-	-	-	-	-	Ⓐ33,34 €
B-ZY12-60-40/SS	M12	60	40	33	-	-	-	-	-	Ⓑ21,43 €
B-ZY12-75-25/SS	M12	75	25	37	-	-	-	-	-	Ⓑ25,80 €
B-ZY12-75-40/SS	M12	75	40	37	735	2300	118	850	✔	Ⓑ28,40 €
B-ZY12-75-50/SS	M12	75	50	37	530	2300	101	850	-	Ⓑ33,55 €
B-ZY12-75-55/SS	M12	75	55	37	417	2300	78	850	-	Ⓑ34,21 €
B-ZY16-100-40/SS	M16	100	40	41	2160	4200	283	1600	-	Ⓑ60,64 €
B-ZY16-100-55/SS	M16	100	55	41	892	4200	145	1600	-	Ⓑ66,60 €
B-ZY16-100-60/SS	M16	100	60	41	843	4200	142	1600	-	Ⓑ68,59 €
B-ZY16-100-75/SS	M16	100	75	41	-	-	-	-	-	Ⓑ79,53 €

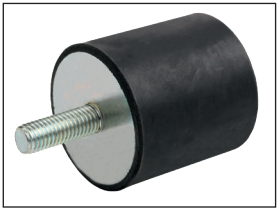
*Depending on availability - Dimensions in mm

Cylindrical stop

D-ZY

Male mounting

- ***Highly deformable thus absorbing large amounts of energy***
- *Energy absorbed gradually*
- *Progressive absorption of energy*
- *Materials*
  core: Steel plates
  cylinder: Rubber
- ***Hardness: NK 55-60 shore A***
- *Working temp: -40°C to +70°C*

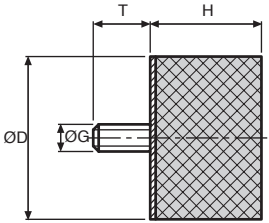


Applications

- *Shock-absorbing stop*

Info.

- ***Not sold individually, please contact us for details***
- *Values for loads and rigidity are given as a guide only*



DISCOUNTS Ⓐ

Qty	1+	6+	20+	40+	100+	200+
Disc.	List	-10%	-20%	-30%	-40%	On request

Part number	ØG	ØD	H	T	Compression stiffness (N/mm)	Max. load (N)	Stock*	Price each 1 to 5
D-ZY4-10-10	M4	10	10	10	38	43	✔	Ⓐ1,41 €
D-ZY4-15-8	M4	15	8	10	122	95	✔	Ⓐ1,52 €
D-ZY4-15-10	M4	15	10	10	106	95	✔	Ⓐ1,66 €
D-ZY4-15-15	M4	15	15	10	74	95	✔	Ⓐ1,66 €
D-ZY6-20-15	M6	20	15	18	138	170	✔	Ⓐ1,84 €
D-ZY6-20-20	M6	20	20	18	-	-	✔	Ⓐ2,02 €
D-ZY6-20-25	M6	20	25	18	-	-	✔	Ⓐ2,11 €
D-ZY6-25-10	M6	25	10	18	-	-	✔	Ⓐ2,02 €
D-ZY6-25-15	M6	25	15	18	254	280	✔	Ⓐ2,28 €
D-ZY6-25-20	M6	25	20	18	128	280	✔	Ⓐ2,37 €
D-ZY6-25-25	M6	25	25	18	-	-	✔	Ⓐ2,64 €
D-ZY6-25-30	M6	25	30	18	80	280	✔	Ⓐ2,89 €

**Depending on availability - Dimensions in mm*

DISCOUNTS Ⓐ

Qty	1+	6+	20+	40+	100+	200+
Disc.	List	-10%	-20%	-30%	-40%	On request

DISCOUNTS Ⓑ

Qty	1+	6+	10+	15+	20+	50+
Disc.	List	-15%	-20%	-25%	-30%	On request

Part number	ØG	ØD	H	T	Compression stiffness (N/mm)	Max. load (N)	Stock*	Price each 1 to 5
D-ZY8-30-20	M8	30	20	20	200	400	✔	Ⓐ 3,54 €
D-ZY8-30-25	M8	30	25	20	-	-	✔	Ⓐ 3,71 €
D-ZY8-30-30	M8	30	30	20	120	400	✔	Ⓐ 3,95 €
D-ZY8-30-40	M8	30	40	20	-	-	✔	Ⓐ 4,85 €
D-ZY8-40-20	M8	40	20	23	-	-	✔	Ⓐ 4,77 €
D-ZY8-40-30	M8	40	30	23	23	234	✔	Ⓐ 5,46 €
D-ZY8-40-40	M8	40	40	23	-	-	✔	Ⓐ 6,24 €
D-ZY10-40-30	M10	40	30	28	-	-	✔	Ⓐ 5,46 €
D-ZY10-50-20	M10	50	20	28	680	1000	✔	Ⓐ 6,61 €
D-ZY10-50-30	M10	50	30	28	425	1000	✔	Ⓐ 7,84 €
D-ZY10-50-40	M10	50	40	28	-	-	✔	Ⓐ 8,72 €
D-ZY10-50-45	M10	50	45	28	-	-	-	Ⓐ 9,33 €
D-ZY10-50-50	M10	50	50	28	-	-	✔	Ⓐ 10,30 €
D-ZY10-60-40	M10	60	40	28	-	-	✔	Ⓐ 14,11 €
D-ZY10-70-45	M10	70	45	28	-	-	-	Ⓐ 19,57 €
D-ZY12-60-40	M12	60	40	33	-	-	✔	Ⓑ 9,15 €
D-ZY12-75-25	M12	75	25	37	2000	2300	✔	Ⓑ 8,70 €
D-ZY12-75-40	M12	75	40	37	810	2300	-	Ⓑ 13,13 €
D-ZY12-75-50	M12	75	50	37	-	-	-	Ⓑ 13,70 €
D-ZY12-75-55	M12	75	55	37	-	-	✔	Ⓑ 14,46 €
D-ZY16-100-50	M16	100	50	41	1578	4200	✔	Ⓑ 24,18 €
D-ZY16-100-55	M16	100	55	41	860	4200	-	Ⓑ 25,41 €

**Depending on availability - Dimensions in mm*

Stainless steel cylindrical stop

D-ZYss

Male mounting

- ***Highly deformable thus allowing high levels of energy to be absorbed.***
- *Progressive deformation*
- *Materials:*
  Core: Stainless steel plates (A2)
  Head: Rubber
- ***Hardness: NK 55-60 Shore A***
- *Working temp: -40°C to +70°C*

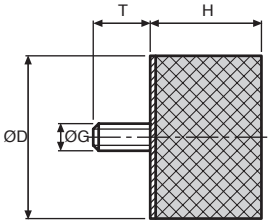


Applications

- *Shock absorbing stop*

Info.

- ***Not sold individually, please contact us for details***
- *Load and stiffness figures are given as a guide only*



DISCOUNTS

Qty	1+	6+	20+	40+	100+
Disc.	List	-10%	-15%	-20%	On request

Part number	ØG	ØD	H	T	Compression Stiffness (N/mm)	Max load (N)	Stock*	Price each 1 to 5
D-ZY4-10-10/SS	M4	10	10	10	38	43	✔	2,09 €
D-ZY4-15-8/SS	M4	15	8	10	122	95	✔	3,55 €
D-ZY4-15-10/SS	M4	15	10	10	106	95	✔	2,56 €
D-ZY4-15-15/SS	M4	15	15	10	74	95	✔	2,80 €
D-ZY6-20-15/SS	M6	20	15	18	138	170	✔	3,67 €
D-ZY6-20-20/SS	M6	20	20	18	-	-	✔	3,78 €
D-ZY6-20-25/SS	M6	20	25	18	-	-	✔	3,57 €
D-ZY6-25-10/SS	M6	25	10	18	-	-	✔	3,24 €
D-ZY6-25-15/SS	M6	25	15	18	254	280	✔	3,63 €
D-ZY6-25-20/SS	M6	25	20	18	128	280	✔	4,02 €
D-ZY6-25-25/SS	M6	25	25	18	-	-	✔	4,43 €
D-ZY6-25-30/SS	M6	25	30	18	80	280	✔	4,78 €

DISCOUNTS

Qty	1+	6+	20+	40+	100+
Disc.	List	-10%	-15%	-20%	On request

Part number	ØG	ØD	H	T	Compression Stiffness (N/mm)	Compression Max load (N)	Stock*	Price each 1 to 5
D-ZY8-30-20/SS	M8	30	20	20	200	400	✔	5,42 €
D-ZY8-30-25/SS	M8	30	25	20	-	-	✔	5,99 €
D-ZY8-30-30/SS	M8	30	30	20	120	400	✔	5,94 €
D-ZY8-30-40/SS	M8	30	40	20	-	-	✔	7,98 €
D-ZY8-40-20/SS	M8	40	20	23	-	-	✔	7,39 €
D-ZY8-40-30/SS	M8	40	30	23	23	234	✔	8,29 €
D-ZY8-40-40/SS	M8	40	40	23	-	-	✔	8,77 €
D-ZY10-40-30/SS	M10	40	30	28	-	-	✔	8,35 €
D-ZY10-50-20/SS	M10	50	20	28	680	1000	✔	11,27 €
D-ZY10-50-30/SS	M10	50	30	28	425	1000	✔	11,49 €
D-ZY10-50-40/SS	M10	50	40	28	-	-	✔	12,61 €
D-ZY10-50-45/SS	M10	50	45	28	-	-	-	13,47 €
D-ZY10-50-50/SS	M10	50	50	28	-	-	✔	14,83 €
D-ZY10-60-40/SS	M10	60	40	28	-	-	-	21,81 €
D-ZY10-70-45/SS	M10	70	45	28	-	-	-	28,19 €
D-ZY12-60-40/SS	M12	60	40	33	-	-	✔	21,81 €
D-ZY12-75-25/SS	M12	75	25	37	2000	2300	✔	20,73 €
D-ZY12-75-40/SS	M12	75	40	37	810	2300	-	31,17 €
D-ZY12-75-50/SS	M12	75	50	37	-	-	-	32,56 €
D-ZY12-75-55/SS	M12	75	55	37	-	-	-	34,13 €
D-ZY16-100-25/SS	M16	100	25	41	-	-	-	50,11 €
D-ZY16-100-50/SS	M16	100	50	41	1578	4200	-	66,51 €
D-ZY16-100-55/SS	M16	100	55	41	860	4200	-	68,87 €

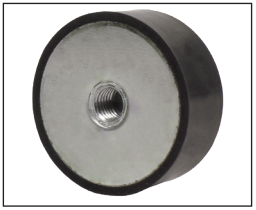
*Depending on availability - Dimensions in mm

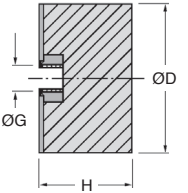
Cylindrical stop

E-ZY

Female mounting

- ***Highly deformable thus absorbing large amounts of energy***
- *Energy absorbed gradually*
- *Material:*
  Core: Steel plates
  Cylinder: Rubber
- ***Hardness NK 55-60 shore A***
- *Working temp: -40°C to +70°C*





Applications

- *Shock absorbing stop*

Info.

- ***Not sold individually, please contact us for details***
- *Values for loads and rigidity are given as a guide only*

DISCOUNTS

Qty	1+	6+	20+	40+	100+	200+
Disc.	List	-10%	-15%	-20%	-25%	On request

Part number	ØG	ØD	H	Compression stiffness (N/mm)	Max. load (N)	Stock*	Price each 1 to 5
E-ZY4-10-10	M4	10	10	38	43	✔	1,41 €
E-ZY4-10-15	M4	10	15	-	-	✔	1,76 €
E-ZY4-15-15	M4	15	15	74	95	✔	1,76 €
E-ZY6-20-15	M6	20	15	138	170	✔	2,11 €
E-ZY6-20-20	M6	20	20	-	-	✔	2,19 €
E-ZY6-25-10	M6	25	10	-	-	✔	2,11 €
E-ZY6-25-20	M6	25	20	128	280	✔	2,46 €
E-ZY6-25-30	M6	25	30	80	280	✔	2,99 €
E-ZY8-30-15	M8	30	15	-	-	✔	3,34 €
E-ZY8-30-17	M8	30	17	-	-	✔	3,49 €
E-ZY8-30-20	M8	30	20	200	400	✔	3,71 €
E-ZY8-30-30	M8	30	30	120	400	✔	4,23 €
E-ZY8-40-30	M8	40	30	23	234	✔	5,46 €
E-ZY10-50-20	M10	50	20	680	1000	✔	6,61 €
E-ZY10-50-30	M10	50	30	425	1000	-	7,84 €
E-ZY10-50-40	M10	50	40	-	-	✔	8,72 €
E-ZY10-50-50	M10	50	50	-	-	✔	10,39 €
E-ZY12-75-25	M12	75	25	2000	2300	✔	15,77 €
E-ZY12-75-55	M12	75	55	-	-	✔	23,27 €

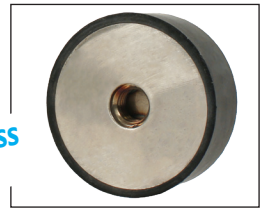
**Depending on availability - Dimensions in mm*

Stainless steel cylindrical stop

Female mounting

E-ZYss

- ***Highly deformable thus allowing high levels of energy to be absorbed***
- *Progressive deformation*
- *Materials:*
  Core: Stainless steel plates (A2)
  Head: Rubber
- ***Hardness: NK 55-60 Shore A***
- *Working temp: -40°C to +70°C*

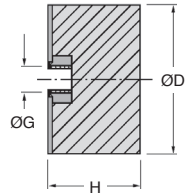


Applications

- *Shock absorbing stop*

Info.

- ***Not sold individually, please contact us for details***
- *Load and stiffness figures are given as a guide only*



DISCOUNTS

Qty	1+	6+	20+	40+	100+
Disc.	List	-10%	-15%	-20%	On request

Part number	ØG	ØD	H	Compression Stiffness (N/mm)	Max load (N)	Stock*	Price each 1 to 5
E-ZY4-10-10/SS	M4	10	10	38	43	✔	3,13 €
E-ZY4-10-15/SS	M4	10	15	-	-	-	2,43 €
E-ZY4-15-15/SS	M4	15	15	74	95	✔	2,68 €
E-ZY6-20-15/SS	M6	20	15	138	170	✔	3,57 €
E-ZY6-20-20/SS	M6	20	20	-	-	✔	3,74 €
E-ZY6-25-10/SS	M6	25	10	-	-	✔	3,91 €
E-ZY6-25-20/SS	M6	25	20	128	280	✔	4,19 €
E-ZY6-25-30/SS	M6	25	30	80	280	✔	4,97 €
E-ZY8-30-15/SS	M8	30	15	-	-	✔	4,97 €
E-ZY8-30-17/SS	M8	30	17	-	-	-	4,97 €
E-ZY8-30-20/SS	M8	30	20	200	400	✔	5,54 €
E-ZY8-30-30/SS	M8	30	30	120	400	✔	6,76 €
E-ZY8-40-30/SS	M8	40	30	23	234	✔	8,29 €
E-ZY10-50-20/SS	M10	50	20	680	1000	✔	10,55 €
E-ZY10-50-30/SS	M10	50	30	425	1000	✔	11,49 €
E-ZY10-50-40/SS	M10	50	40	-	-	✔	12,54 €
E-ZY10-50-50/SS	M10	50	50	-	-	-	14,83 €
E-ZY12-75-25/SS	M12	75	25	2000	2300	-	22,73 €
E-ZY12-75-55/SS	M12	75	55	-	-	-	33,34 €

**Depending on avaibility - Dimensions in mm*

Conical progressive stop

D-PAR
D-KON

Male mounting

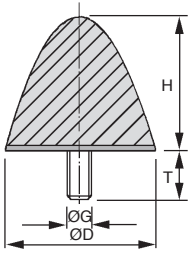
- ***Highly deformable thus absorbing large amounts of energy***
- *Energy absorbed gradually*
- *Materials*
  core: Steel plates
  cylinder: Rubber
- ***Hardness: NK 55-60 shore A***
- *Working temp: -40°C to +70°C*

Applications

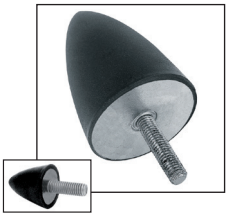
- *Shock-absorbing stop*

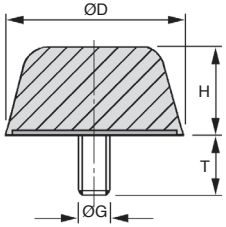
Info

- ***D-KON12-80-30*
  square base 80x80mm

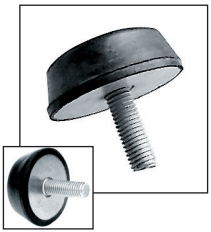


Type D-PAR





Type D-KON



DISCOUNTS Ⓐ

Qty	1+	6+	20+	40+	100+	200+
Disc.	List	-10%	-15%	-20%	-25%	On request

DISCOUNTS Ⓑ

Qty	1+	6+	10+	15+	20+	50+
Disc.	List	-10%	-15%	-20%	-25%	On request

Part number	ØG	T	ØD	H	Stock*	Price each 1 to 5
D-PAR6-20-24	M6	18	20	24	✔	Ⓐ 3,25 €
D-PAR8-30-36	M8	20	30	36	✔	Ⓐ 4,25 €
D-PAR8-35-40	M8	20	35	40	✔	Ⓐ 6,35 €
D-PAR8-50-67	M8	36	50	67	✔	Ⓐ 13,16 €
D-PAR10-50-58	M10	28	50	58	✔	Ⓐ 11,59 €
D-PAR12-75-89	M12	37	75	89	✔	Ⓑ 16,95 €
D-PAR16-115-136	M16	43	115	136	-	Ⓑ 64,96 €
D-KON6-25-17	M6	18	25	17	✔	Ⓐ 3,05 €
D-KON10-50-18	M10	28	50	18	✔	Ⓐ 8,74 €
D-KON12-80-30**	M12	35	80	30	✔	Ⓑ 21,80 €
D-KON16-125-45	M16	45	125	45	-	Ⓑ 36,46 €

**Depending on availability - Dimensions in mm*

Male mounting

D-PARss
D-KONss

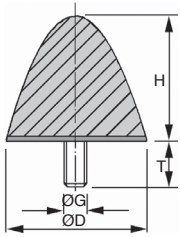
- ***Highly deformable thus allowing high*** *levels of energy to be absorbed.*
- *Progressive deformation*
- *Materials :*
  Core : Stainless steel plates (A2)
  Head : Rubber
- ***Hardness : NK 55-60 Shore A***
- *Working temp: -40°C to +70°C*

Applications

- *Shock-absorbing stop*

Info

- ***D-KON12-80-30/SS: square base 80x80mm*

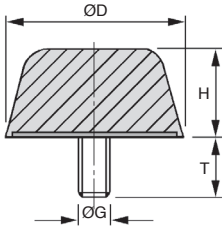




Type D-PARss



Type D-KONss



DISCOUNTS

Qty	1+	6+	20+	40+	100+
Disc.	List	-10%	-15%	-20%	On request

Part number	ØG	T	ØD	H	Stock*	Price each 1 to 5
D-PAR6-20-24/SS	M6	18	20	24	✔	4,69 €
D-PAR8-30-36/SS	M8	20	30	36	✔	7,28 €
D-PAR8-35-40/SS	M8	20	35	40	✔	19,77 €
D-PAR8-50-67/SS	M8	36	50	67	✔	20,32 €
D-PAR10-50-58/SS	M10	28	50	58	✔	15,75 €
D-KON6-25-17/SS	M6	18	25	17	✔	4,50 €
D-KON10-50-18/SS	M10	28	50	18	✔	11,34 €
D-KON12-80-30/SS**	M12	35	80	30	-	60,68 €
D-KON16-125-45/SS	M16	45	125	45	-	131,94 €

**Depending on availability - Dimensions in mm*

Silicone conical elast buffer

Stock

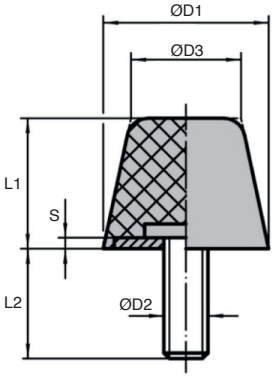
D-KONSL — Male mounting

- ***Silicone truncated cone form for applications with high hygiene requirements***
- *Materials:*
  304 stainless steel frame
  Rubber-silicone cone cylinder (Elastosil MVQ)
- *Hardness 55+/-5° shoreA*
- *Working temperature: -30°C to +200°C*

Applications

- *End stop*
- *Supporting foot*
- *Food industry (FDA compliant), pharmaceutical, medical.*





DISCOUNTS

Qty	1+	4+	15+
Disc.	Price	-5%	On request

Part number	ØD1	ØD2	L2	ØD3	L1	S	Stiffness R (N/mm)	Max. load (N)	Stroke	Weight (g)	Stock*	Price each 1 to 3
D-KON5-19-16/SL	19	M5	20	12,0	16	2	63	250	4,0	10	✔	16,25 €
D-KON6-25-20/SL	25	M6	25	16,5	20,5	2	90	460	5,1	19	✔	17,41 €
D-KON8-32-26/SL	32	M8	30	21,0	26	2	117	760	6,5	38	✔	19,42 €
D-KON8-38-32/SL	38	M8	30	24,5	32	2	113	900	8,0	56	✔	38,76 €
D-KON10-50-43/SL	50	M10	40	32,0	43	2	148	1580	10,7	110	✔	53,03 €

**Depending on availability - Dimensions in mm*

Female mounting

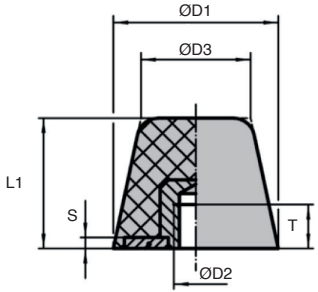
E-KONSL

- ***Silicone truncated cone form for applications with high hygiene requirements***
- *Materials:*
  304 stainless steel frame
  Rubber-silicone cone cylinder (Elastosil MVQ)
- *Hardness 55+/-5° shoreA*
- *Working temperature: -30°C to +200°C*



Applications

- *End stop*
- *Supporting foot*
- *Food industry (FDA compliant), pharmaceutical, medical.*



DISCOUNTS

Qty	1+	4+	15+
Disc.	Price	-5%	On request

Part number	ØD1	ØD2	L2	ØD3	L1	S	Stiffness R (N/mm)	Max. load (N)	Stroke	Weight (g)	Stock*	Price each 1 to 3
E-KON5-19-16/SL	19	M5	12,0	16	2	5	63	250	4,0	7	✔	16,81 €
E-KON6-25-20/SL	25	M6	16,5	20,5	2	6	90	460	5,1	14	-	18,46 €
E-KON8-32-26/SL	32	M8	21,0	26	2	8	117	760	6,5	20	✔	20,89 €
E-KON8-38-32/SL	38	M8	24,5	32	2	8	113	900	8,0	46	-	40,23 €
E-KON10-50-43/SL	50	M10	32,0	43	2	10	148	1580	10,7	96	✔	55,00 €

**Depending on availability - Dimensions in mm*

Flexible bush

ARTE

For multi-directional loads

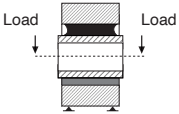
- ***Accepts radial, axial and torque loads***
- *Maintenance free*
- *Materials:*
  Cylindrical body: steel
  Insert: rubber NK50-60 Shore

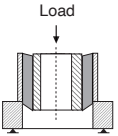


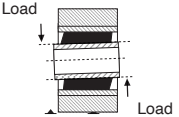


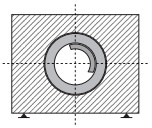
Advantages

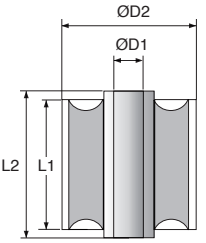
- *A flexible bush is a superior replacement for a mechanical linkage where there are oscillating movement or a pivoting movement of limited amplitude*











DISCOUNTS

Qty	1+	6+	10+	15+	20+	50+
Disc.	List	-10%	-15%	-20%	-25%	On request

Part number	ØD1	ØD2	L1	L2	Stock*	Price each 1 to 5
ARTE8-16-17	8	16	15	17	✔	11,41 €
ARTE8-16-28	8	16	25	28	✔	13,35 €
ARTE8-20-17	8	20	15	17	✔	11,74 €
ARTE8-22-16	8	22	10	16	-	13,12 €
ARTE10-18-20	10	18	18	20	✔	14,29 €
ARTE10-20-24	10	20	20	24	✔	27,22 €
ARTE10-22-17	10	22	15	17	✔	11,86 €
ARTE10-22-30	10	22	25	30	✔	12,77 €
ARTE10-24-17	10	24	14	17	✔	14,91 €
ARTE10-25-24	10	25	20	24	✔	15,20 €
ARTE10-27-51	10	27	45	51	-	15,20 €

**Depending on availability - Dimensions in mm*

DISCOUNTS

Qty	1+	6+	10+	15+	20+	50+
Disc.	List	-10%	-15%	-20%	-25%	On request

Part number	ØD1	ØD2	L1	L2	Stock*	Price each 1 to 5
ARTE12-22-24	12	22	22	24	✔	13,35 €
ARTE12-24-38	12	24	35	38	✔	16,42 €
ARTE12-25-28	12	25	25	28	✔	15,51 €
ARTE12-26-24	12	26	20	24	✔	12,77 €
ARTE12-26-36	12	26	32	36	-	15,79 €
ARTE12-27-51	12	27	45	51	-	26,57 €
ARTE12-27-68	12	27	60	68	✔	23,75 €
ARTE12-30-28	12	30	25	28	-	19,47 €
ARTE12-30-34	12	30	28	34	-	19,47 €
ARTE12-30-40	12	30	36	40	-	23,00 €
ARTE12-30-44	12	30	39	44	✔	23,13 €
ARTE12-36-38	12	36	30	38	-	26,77 €
ARTE13-30-40	13	30	40	40	-	23,13 €
ARTE14-30-28	14	30	25	28	✔	21,91 €
ARTE14-30-76	14	30	67	76	-	24,05 €
ARTE14-34-40	14	34	32	40	-	27,37 €
ARTE14-46-45	14	46	37	45	-	38,64 €
ARTE16-32-28	16	32	25	28	✔	29,81 €
ARTE16-32-54	16	32	50	54	-	29,81 €
ARTE16-35-62	16	35	58	62	-	32,60 €
ARTE16-40-38	16	40	32	38	-	29,81 €
ARTE18-34-36	18	34	32	36	✔	25,54 €
ARTE18-34-42	18	34	36	42	✔	25,54 €
ARTE20-44-42	20	44	38	42	✔	31,36 €
ARTE20-45-30	20	45	30	30	-	27,37 €
ARTE20-45-62	20	45	55	62	-	41,99 €
ARTE20-45-70	20	45	64	70	-	45,65 €
ARTE25-40-40	25	40	40	40	-	37,73 €
ARTE25-45-56	25	45	50	56	-	41,99 €
ARTE30-60-68	30	60	60	68	-	45,65 €
ARTE30-65-70	30	65	70	70	-	52,95 €
ARTE32-56-55	32	56	50	55	-	59,05 €
ARTE40-75-70	40	75	57	70	-	93,52 €
ARTE45-75-100	45	75	90	100	-	118,12 €
ARTE50-70-60	50	70	60	60	-	87,68 €
ARTE50-80-100	50	80	95	100	-	121,80 €

*Depending on availability - Dimensions in mm

ADJUSTABLE FURNITURE FOOT



p.371

THREADED SWIVEL FEET



p.375

HALF-ARTICULATED FOOT



p.377

ARTICULATED FIXABLE FOOT PRESSED BOLT-DOWN BASE



p.392

ARTICULATED PRESSED STEEL FEET

Economy range



p.395

PRESSED STEEL LEVELLING FOOT



p.401

FOOT

P. 368- 415

SOLID STAINLESS STEEL ARTICULATED FOOT

stainless steel



p.403

ARTICULATED FOOT FOR FOOD INDUSTRY

stainless steel



p.407

FIXED ANTI-VIBRATION FOOT



p.410

ANTI-VIBRATION MACHINE MOUNT



p.411

Buying guide

Feet








	PFC / PFCss	FAD	PR / PRss	PTMR/PTMC	PTCR	ACLALF
Part number						
Shaft material	steel or stainless steel	plated steel	steel or stainless steel	stainless steel	plastic	steel
Base material	rubber	plastic	polyamide	stainless steel	plastic	polyamide
Rubber sole	✔	✘	✔	✘	✘	✘
Base diameter	Ø40	Ø24 → Ø49	Ø40 → Ø123	✘	Ø20 → Ø41	45x45
Stem diameter	M8 → M12	M6 → M12	M6 → M30	✘	M10 → M30	M8
Articulation	fixed	swivel	swivel	✘	✘	✘
Load capacity (N)	1800 → 3150	1000 → 7700	5000 → 35000	-	-	1500
Fittable	✘	✘	✔	✘	✘	✘
Custom made*	✘	✘	✔	✘	✘	✘
Quality index	☆	☆	☆☆	☆	☆	☆☆
Price	€	€	€€	€	€	€
Pages	1 p.374	1 p.375	1 p.376	1 p.372	1 p.371	5 p.320







	PARF	SPIT	PAT	PFM	PAMss
Part number					
Shaft material	steel	steel	stainless steel	steel or stainless steel	stainless steel
Base material	steel	steel	stainless steel sheet	sheet steel / stainless steel	solid stainless steel
Rubber sole	✘	✘	✔	✔	✔
Base diameter	-	-	Ø85 → Ø123	Ø80 → Ø120	Ø30 → Ø40
Stem diameter	M16 → M24	M16 → M20	M16 → M30	M12 → M20	M8 → M12
Articulation	oscillating	✘	oscillating	✘	oscillating
Load capacity (N)	20000 → 30000	30000 → 40000	12000 → 20000	4500 → 11000	8000 → 9000
Fittable	✔	✔	✔	✘	✘
Custom made*	✔	✔	✔	✘	✔
Quality index	☆☆	☆☆	☆☆	☆☆☆	☆☆☆
Price	€	€	€€	€€	€€
Pages	1 p.395	1 p.398	1 p.399	1 p.401	1 p.402

						
PR65C	steel	**stainless steel**	steel	**stainless steel**	**stainless steel**	**stainless steel**
stainless steel	steel sheet	**stainless steel** or **stainless steel** sheet	steel sheet	**stainless steel** or **stainless steel** sheet	**stainless steel** sheet	**stainless steel** sheet
plastic	✔	✔	✔	✔	**blue EPDM**	**blue EPDM**
✔	✔	✔	✔	✔	**blue EPDM**	**blue EPDM**
Ø65	Ø50 ➔ Ø150	Ø40 ➔ Ø150	Ø80 ➔ Ø100	Ø80 ➔ Ø120	Ø50 ➔ Ø150	Ø80 ➔ Ø100
M12 ➔ M20	M10 ➔ M30	M10 ➔ M30	M12 ➔ M20	M12 ➔ M20	M10 ➔ M24	M12 ➔ M20
half articulated	oscillating	oscillating	oscillating	oscillating	oscillating	oscillating
13000 ➔ 18000	4000 ➔ 40000	3000 ➔ 40000	10000 ➔ 15000	10000 ➔ 30000	4000 ➔ 15000	10000 ➔ 15000
✘	✘	✘	✔	✔	✘	✔
✘	✔	✔	✔	✔	✔	✔
☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆
€€	€€	€€€	€€	€€	€€	€€
1 **p.377**	1 **p.382**	1 **p.383**	1 **p.385**	1 **p.392**	1 **p.391**	1 **p.392**

						
PRS	**PTKss**	**PTKFss**	**PAV**	**PMC**	**PMB**	**PML**
stainless steel	**stainless steel**	**stainless steel**	steel	steel	steel	steel
solid stainless steel	**solid stainless steel**	**solid stainless steel**	steel sheet	steel sheet	steel sheet	solid steel
✔	✔	✔	✔	integrated	integrated	✘
Ø30 ➔ Ø100	Ø80 ➔ Ø100	Ø80 ➔ Ø100	Ø80 ➔ Ø200	Ø48 ➔ Ø177	Ø40 ➔ Ø150	Ø100 ➔ Ø150
M6 ➔ M24	M16 ➔ M30	M16 ➔ M30	M12 ➔ M20	M8 ➔ M20	M6 ➔ M14	M24 ➔ M36
swivel	oscillating	oscillating	✘	✘	✘	oscillating
5000 ➔ 55000	20000 ➔ 250000	20000 ➔ 250000	5000 ➔ 35000	1900 ➔ 23000	25 ➔ 4000	60000 ➔ 90000
✘	✘	✔	✘	✔	✔	✔
✔	✘	✘	✘	✘	✘	✘
☆☆☆☆	☆☆☆☆☆	☆☆☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆☆
€€€	€€€	€€€	€€	€€	€€	€€€
1 **p.403**	1 **p.407**	1 **p.408**	1 **p.410**	1 **p.412**	1 **p.411**	1 **p.414**



FREE CATALOGUES

1, 2, 3 PRODUCTS SOLD INDIVIDUALLY

€ VOLUME DISCOUNT



MINIMUM ORDER 20€*



MADE TO MEASURE AVAILABLE



FAST QUOTES & ORDERS

* Certain conditions apply - Deliveries to mainland France only

Adjustable furniture foot

For square tube PTCR

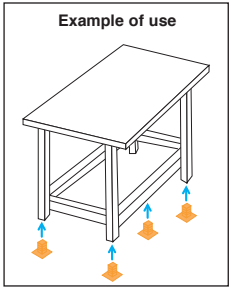
Furniture foot with simple height adjustment
- *For square tubes 20x20mm to 50x50mm*
- *Turn to adjust height*
- *Working T° -30°C to +80°C*
- *Material:*
  Thermoplastic PA12 black

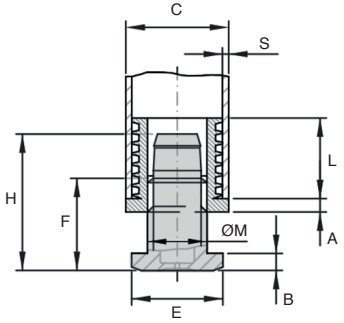


Advantages
- *Easy height adjustment*
- *Easy to install in the tube by pressure mounting*

Info
- *Not sold individually, please contact us for details*

Example of use





DISCOUNTS

Qty	1+	60+	100+	200+
Disc.	List	-5%	-10%	On request

Part number	C	E	A	B	ØM	F	L	H	S	Price each 1 to 59
PTCR20-M10	20	20	5	4	M10	24	16,7	-	1,5 - 2	1,92 €
PTCR25-M16	25	24	5	5	M16	22	20	34,5	1,5 - 2	2,12 €
PTCR30-M22	30	28	5	5	M22	20	19,5	45,5	1,5 - 2	2,00 €
PTCR35-M22	35	28	5	5	M22	21,5	29,3	34,5	1,5 - 2	3,10 €
PTCR40-M22	40	28	5	5	M22	21,5	29,3	34,5	1,5 - 2	3,55 €
PTCR50-M30	50	41	5	5	M30	28	29,3	45,5	1,5 - 2	4,82 €

Dimensions in mm

Stainless steel telescopic furniture foot Sta

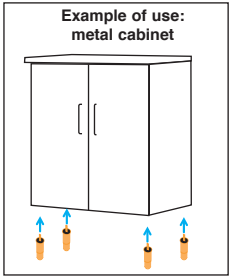
PTMR — With threaded stud

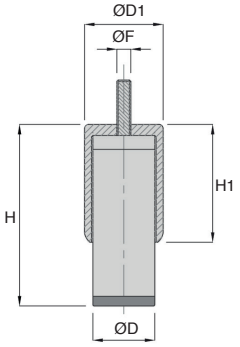
Furniture foot with simple height adjustment
- *Turn to adjust height*
- *Materials:*
  Stainless steel foot 304
  Glass fibre reinforced nylon internal thread
  Anti-slip pad in black PVC

Advantages
- *Easy height adjustment*
- *When washing, the water flows over the outer part of the foot*









DISCOUNTS

Qty	1+	6+	10+	15+	20+
Disc.	List	-5%	-10%	-15%	On request

Part number	ØD	ØD1	H	H1	ØF	Static load (N)	Stock*	Price each 1 to 5
PTMR30-40-M10	30	40	80/110	67	M10x15	3000		21,82 €
PTMR44-56-M10	44,5	56,5	130/180	85	M10x30	5000		27,12 €
PTMR56-64-M10	56,5	64	130/180	85	M10x30	8000		29,84 €

Dimensions in mm

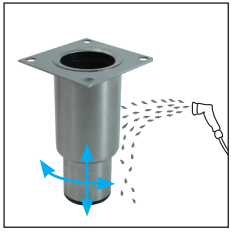
Stainless steel telescopic furniture foot

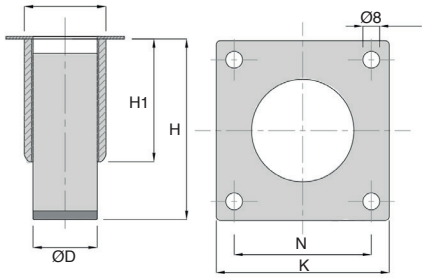
With square plate — PTMC

Furniture foot with simple height adjustment
- *Turn to adjust height*
- *Materials:*
  Stainless steel foot 304
  Glass fibre reinforced nylon internal thread
  Anti-slip pad in black PVC

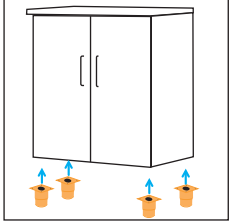


Advantages
- *Easy height adjustment*
- *When washing, the water flows over the outer part of the foot*





Example of use: metal cabinet



DISCOUNTS

Qty	1+	6+	10+	15+	20+
Disc.	List	-5%	-10%	-15%	On request

Part number	ØD	ØD1	H	H1	K	N	Static load (N)	Stock*	Price each 1 to 5
PTMC44-56-82	44,5	56,5	130/180	85	82	65	5000		31,86 €
PTMC56-64-82	56,6	64	130/180	85	82	65	8000		34,49 €

Dimensions in mm

Fixed rubber foot

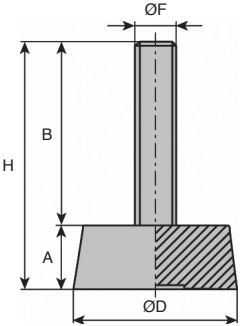
Stock Size XS € Eco

PFC

Maximum load 3,150N

- ***Levelling support for small parts***
- *Materials:*
  Rod: steel or stainless steel 304
  Base: NBR rubber hardness Shore 70





DISCOUNTS

Qty	1+	50+	100+
Disc.	List	-5%	On request

Part number	ØD	ØF	A	H	B	Max. load (N)	Stock*	Price each 1 to 49
Steel								
PFC40-8	40	M8	16	41	25	1800	✔	3,76 €
PFC40-10	40	M10	16	41	25	2250	✔	4,42 €
PFC40-12	40	M12	16	41	25	3150	✔	5,13 €
Stainless steel								
PFC40-8/SS	40	M8	16	41	25	1800	✔	4,42 €
PFC40-10/SS	40	M10	16	41	25	2250	✔	4,80 €
PFC40-12/SS	40	M12	16	41	25	3150	✔	7,78 €

**Depending on availability - Dimensions in mm*

Swivel feet without anti-slip plate

Swiveling range +/-10°

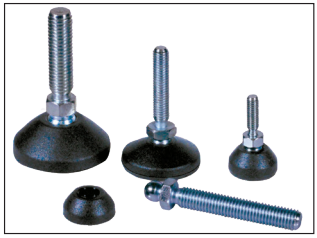
- Material:

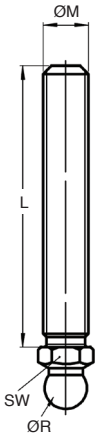
Base plastic PA glass fibre reinforced

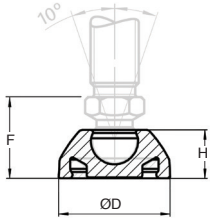
Spindle steel zinc plated

Assembly

- By forceful interlocking (mallet or press)







DISCOUNTS

Qty	1+	10+	20+	40+
Disc.	Net	-10%	-15%	On request

Part number	ØD	ØM	L	ØR	SW	F	H	Max load (N)	Stock*	Price each 1 to 9
FAD25-6-20	24	M6	20	10	10	17,5	10,4	1000	✔	2,84 €
FAD25-6-40	24	M6	40	10	10	17,5	10,4	1000	✔	2,93 €
FAD25-8-20	24	M8	20	10	13	17,5	10,4	2000	-	3,09 €
FAD25-10-20	24	M10	20	10	13	17,5	10,4	2000	✔	3,03 €
FAD25-10-40	24	M10	40	10	13	17,5	10,4	2000	✔	3,25 €
FAD25-10-60	24	M10	60	10	13	17,5	10,4	2000	✔	3,48 €
FAD40-6-20	39	M6	20	10	10	17,5	10,4	1000	✔	2,93 €
FAD40-8-20	39	M8	20	10	13	17,5	10,4	2500	✔	3,19 €
FAD40-10-40	39	M10	40	10	13	17,5	10,4	4000	✔	3,35 €
FAD40-10-60	39	M10	60	10	13	17,5	10,4	4000	✔	3,58 €
FAD50-6-15	49	M6	15	15	14	29,5	18,0	1000	✔	4,97 €
FAD50-6-30	49	M6	30	15	14	29,5	18,0	1000	-	6,71 €
FAD50-8-25	49	M8	25	15	14	29,5	18,0	3500	-	4,84 €
FAD50-10-45	49	M10	45	15	14	29,5	18,0	4700	✔	5,22 €
FAD50-12-45	49	M12	45	15	14	29,5	18,0	7700	✔	5,61 €

** Depending on availability - All dimensions in mm*

Fixable articulated foot Ø40 and Ø50

PR40
PR50

Accepts loads up to 11,000N

- ***Levelling foot***
- *Rubber anti-slip sole (NBR 70 Shore)*
- *Black glass fibre reinforced Polyamide base*
- *Threaded ball ended spindle in plated steel or stainless steel*
- *Nut not supplied*

With non-slip sole

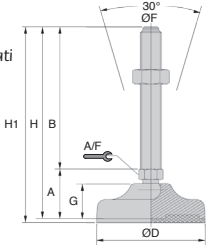


Advantages

- *Self aligning on floor due to use of ball ended rod*
- *Flexible and non-slip sole*

Info.

- *If subjected to vibration, the stati given will be reduced*



DISCOUNTS

Qty	1+	20+	50+
Disc.	List	-10%	On request

Part number	ØD	Thread ØF	B	A	A/F	G	H	H1	Static load (N)	Stock*	Price each 1 to 19
Steel spindle											
PR40-6-25	40	M6	25	27	12	16,5	52	55	5000	-	5,68 €
PR40-6-50	40	M6	50	27	12	16,5	77	80	5000	-	5,68 €
PR40-8-50	40	M8	50	27	12	16,5	77	80	10000	✔	6,31 €
PR40-8-100	40	M8	100	27	12	16,5	127	130	10000	✔	8,74 €
PR50-10-75	50	M10	75	30	14	20,0	105	108	11000	✔	8,51 €
PR50-10-125	50	M10	125	30	14	20,0	155	158	11000	✔	10,15 €
PR50-12-75	50	M12	75	30	14	20,0	105	108	11000	✔	9,34 €
PR50-12-125	50	M12	125	30	14	20,0	155	158	11000	✔	10,43 €
PR50-16-75	50	M16	75	30	16	20,0	105	108	11000	-	10,54 €
PR50-16-125	50	M16	125	30	16	20,0	155	158	11000	-	11,81 €
Stainless steel spindle											
PR40-6-25/SS	40	M6	25	27	12	16,5	52	55	5000	-	8,56 €
PR40-6-50/SS	40	M6	50	27	12	16,5	77	80	5000	-	10,82 €
PR40-8-50/SS	40	M8	50	27	12	16,5	77	80	10000	✔	11,83 €
PR40-8-100/SS	40	M8	100	27	12	16,5	127	130	10000	✔	16,86 €
PR50-10-75/SS	50	M10	75	30	14	20,0	105	108	11000	✔	15,76 €
PR50-10-125/SS	50	M10	125	30	14	20,0	155	158	11000	✔	19,40 €
PR50-12-75/SS	50	M12	75	30	14	20,0	105	108	11000	✔	14,51 €
PR50-12-125/SS	50	M12	125	30	14	20,0	155	158	11000	✔	17,73 €
PR50-16-75/SS	50	M16	75	30	16	20,0	105	108	11000	-	16,07 €
PR50-16-125/SS	50	M16	125	30	16	20,0	155	158	11000	-	18,91 €

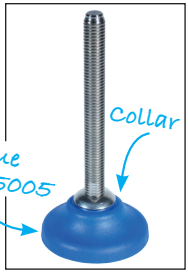
**Depending on avaibility- Dimensions in mm*

Half-articulated foot Ø65

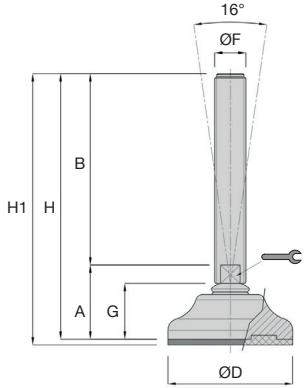
Maximum load 18000N

PR65C

Swivel levelling foot with protective collar
- *Up to +/-8° from vertical*
- *Non slip base in NBR rubber 70 shore*
- *Base: Blue polyamide (RAL5005) fiber glass reinforced*
- *Spindle: Stainless steel 304*



Advantages
- *Articulated rod allows auto-alignment with the ground*
- *Sole material ensures flexibility and grip*
- *The collar at the base of the stem limits (but does not prevent) the retention of material*



DISCOUNTS

Qty	1+	20+	50+
Disc.	List	-10%	On request

Part number	ØD	Thread ØF	B	A	A/F	G	H	H1	Static load (N)	Price each 1 to 19
PR65C-12-50/SS	65	M12	50	39	10	29	89	92	13000	12,45 €
PR65C-12-100/SS	65	M12	100	39	10	29	139	142	13000	13,53 €
PR65C-12-150/SS	65	M12	150	39	10	29	189	192	13000	15,22 €
PR65C-16-100/SS	65	M16	100	39	13	29	139	142	18000	15,71 €
PR65C-16-150/SS	65	M16	150	39	13	29	189	192	18000	18,45 €
PR65C-16-200/SS	65	M16	200	39	13	29	239	242	18000	20,36 €
PR65C-20-100/SS	65	M20	100	41	17	29	141	144	18000	20,36 €
PR65C-20-150/SS	65	M20	150	41	17	29	191	194	18000	23,59 €
PR65C-20-200/SS	65	M20	200	41	17	29	241	244	18000	26,88 €
PR65C-20-250/SS	65	M20	250	41	17	29	291	294	18000	30,62 €

Dimensions in mm

Fixable articulated foot Ø83

Stock Ste Sta

PR85 Maximum load 20,000N

- **Levelling foot**
- Non slip base
- Materials:
  Base: Black glass reinforced polyamide (Shore 70)
  Spindle: Zinc plated steel or stainless 304 steel
- Supplied without nut

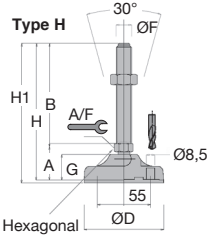


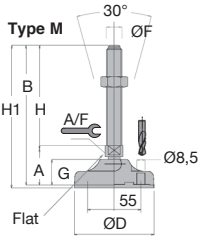
Advantages

- Articulated rod allows auto-alignment with the ground
- Sole material ensures flexibility and grip

Info.

- Values given for static, should will be reduced in case of a vibrating load





DISCOUNTS

Qty	1+	20+	50+
Disc.	List	-10%	On request

Part number	ØD	Thread ØF	B	A	A/F	G	H	H1	Static load (N)	Type	Stock*	Price each 1 to 19
Steel spindle												
PR85-12-75	83	M12	75	38	14	27	113	116	15000	H	✔	11,45 €
PR85-12-125	83	M12	125	38	14	27	163	166	15000	H	✔	12,79 €
PR85-16-75	83	M16	75	38	16	27	113	116	20000	H	✔	12,04 €
PR85-16-150	83	M16	150	38	16	27	188	191	20000	H	✔	14,16 €
PR85-16-200	83	M16	200	38	16	27	238	241	20000	H	✔	15,59 €
PR85-20-125	83	M20	125	41	17	27	166	169	20000	M	✔	13,11 €
PR85-20-175	83	M20	175	41	17	27	216	219	20000	M	✔	14,98 €
PR85-20-225	83	M20	225	41	17	27	266	269	20000	M	✔	17,02 €
Stainless steel spindle												
PR85-12-75/SS	83	M12	75	38	14	27	113	116	15000	H	✔	19,44 €
PR85-12-125/SS	83	M12	125	38	14	27	163	166	15000	H	✔	22,37 €
PR85-16-75/SS	83	M16	75	41	13	27	116	119	20000	M	✔	19,44 €
PR85-16-150/SS	83	M16	150	41	13	27	191	194	20000	M	✔	23,84 €
PR85-16-200/SS	83	M16	200	41	13	27	241	244	20000	M	✔	26,79 €
PR85-20-125/SS	83	M20	125	41	17	27	166	169	20000	M	✔	27,25 €
PR85-20-175/SS	83	M20	175	41	17	27	216	219	20000	M	✔	32,10 €
PR85-20-225/SS	83	M20	225	41	17	27	266	269	20000	M	⏳	38,79 €

*Depending on availability - Dimensions in mm

Fixable articulated foot Ø103

Maximum load 25,000N

PR105

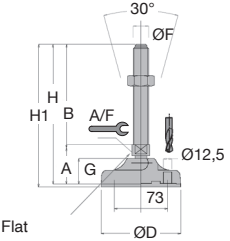
- ***Levelling foot***
- *Non slip base*
- *Materials:*
  Base: Black glass reinforced polyamide (Shore 70)
  Spindle: Zinc plated steel or stainless 304 (nut not supplied)

With non-slip base



Info.

- *Values given for static loads will be reduced in case of a vibrating load*



DISCOUNTS

Qty	1+	20+	50+
Disc.	List	-10%	On request

Part number	ØD	Thread ØF	B	A	A/F	G	H	H1	Static load (N)	Stock*	Price each 1 to 19
Steel spindle											
PR105-16-75	103	M16	75	51	20	32	126	129	25000	✔	19,19 €
PR105-16-150	103	M16	150	51	20	32	201	204	25000	✔	23,08 €
PR105-16-225	103	M16	225	51	20	32	276	279	25000	✔	28,44 €
PR105-20-125	103	M20	125	51	20	32	176	179	25000	✔	19,44 €
PR105-20-200	103	M20	200	51	20	32	251	254	25000	✔	23,06 €
PR105-20-250	103	M20	250	51	20	32	301	304	25000	✔	28,44 €
PR105-24-125	103	M24	125	51	20	32	176	179	25000	✔	19,44 €
PR105-24-200	103	M24	200	51	20	32	251	254	25000	✔	23,06 €
PR105-24-250	103	M24	250	51	20	32	301	304	25000	-	28,44 €
Stainless steel spindle											
PR105-16-75/SS	103	M16	75	51	20	32	126	129	25000	✔	34,11 €
PR105-16-150/SS	103	M16	150	51	20	32	201	204	25000	✔	45,13 €
PR105-16-225/SS	103	M16	225	51	20	32	276	279	25000	✔	58,08 €
PR105-20-125/SS	103	M20	125	51	20	32	176	179	25000	-	39,45 €
PR105-20-200/SS	103	M20	200	51	20	32	251	254	25000	-	54,17 €
PR105-20-250/SS	103	M20	250	51	20	32	301	304	25000	✔	62,89 €
PR105-24-125/SS	103	M24	125	51	20	32	175	178	25000	-	39,45 €
PR105-24-200/SS	103	M24	200	51	20	32	250	253	25000	-	54,17 €
PR105-24-250/SS	103	M24	250	51	20	32	300	303	25000	-	62,89 €

**Depending on availability - Dimensions in mm*

Fixable articulated foot Ø123

Stock Ste Sta

PR125

Maximum load 35,000N

- ***Levelling foot***
- *Non slip base*
- *Materials:*
  Base: Black glass reinforced polyamide (Shore 70)
  Spindle: Zinc plated steel or stainless steel 304 (nut not supplied)

With non-slip base



Advantages

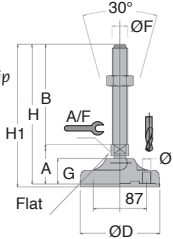
- *Articulated rod allows auto-alignment with the ground*
- *Sole material ensures flexibility and grip*

Accessories

- *Extension for articulated foot PR125-ENT* ***(p.27)***

Info.

- *Values given for static loads will be reduced in case of a vibrating load*



DISCOUNTS

Qty	1+	20+	50+
Disc.	List	-10%	On request

Part number	ØD	Thread ØF	B	A	A/F	G	H	H1	Static load (N)	Stock*	Price each 1 to 19
Steel spindle											
PR125-16-75	123	M16	75	57	20	37	132	133	35000	✔	22,33 €
PR125-16-150	123	M16	150	57	20	37	207	208	35000	✔	26,26 €
PR125-16-225	123	M16	225	57	20	37	282	285	35000	✔	30,70 €
PR125-20-125	123	M20	125	57	20	37	182	185	35000	✔	22,20 €
PR125-20-200	123	M20	200	57	20	37	257	260	35000	✔	25,93 €
PR125-20-250	123	M20	250	57	20	37	307	310	35000	✔	30,47 €
PR125-24-125	123	M24	125	57	20	37	182	185	35000	✔	22,20 €
PR125-24-200	123	M24	200	57	20	37	257	260	35000	✔	25,93 €
PR125-24-250	123	M24	250	57	20	37	307	310	35000	✔	30,47 €
PR125-30-125	123	M30	125	58	26	37	183	186	35000	✔	23,86 €
PR125-30-200	123	M30	200	58	26	37	258	261	35000	✔	28,53 €
PR125-30-250	123	M30	250	58	26	37	308	311	35000	-	31,75 €
Stainless steel spindle											
PR125-16-75/SS	123	M16	75	57	20	37	132	135	35000	-	38,49 €
PR125-16-150/SS	123	M16	150	57	20	37	207	210	35000	✔	49,45 €
PR125-16-225/SS	123	M16	225	57	20	37	282	285	35000	-	62,44 €
PR125-20-125/SS	123	M20	125	57	20	37	182	185	35000	✔	45,81 €
PR125-20-200/SS	123	M20	200	57	20	37	257	260	35000	-	58,54 €
PR125-20-250/SS	123	M20	250	57	20	37	307	310	35000	-	67,30 €
PR125-24-125/SS	123	M24	125	57	20	37	182	185	35000	-	45,81 €
PR125-24-200/SS	123	M24	200	57	20	37	257	260	35000	-	52,21 €
PR125-24-250/SS	123	M24	250	57	20	37	307	310	35000	-	67,30 €
PR125-30-125/SS	123	M30	125	58	26	37	183	186	35000	-	51,98 €
PR125-30-200/SS	123	M30	200	58	26	37	258	261	35000	-	66,37 €
PR125-30-250/SS	123	M30	250	58	26	37	308	311	35000	-	75,63 €

**Depending on availability - Dimensions in mm*

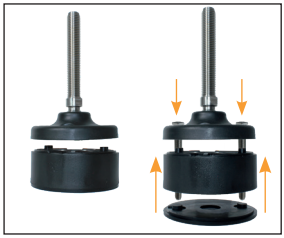
Extension for articulated foot Ø123

For articulated foot PR125 PR125

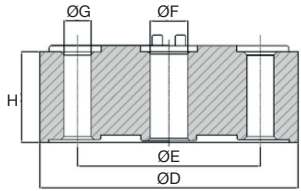
Extension with mounting holes for articulated feet PR125
- *Material*
  Polyamide
- *Delivered without anti-slip rubber pad*
- *Suitable for any type of floor*



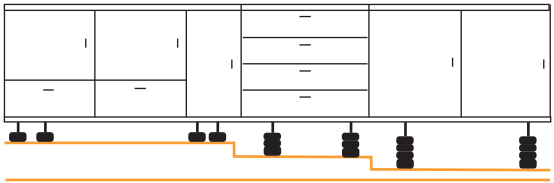
Advantages
- *Easily compensates for large differences in floor level*



Assembly example
(screws not included)



Application example



DISCOUNTS

Qty	1+	20+	50+
Disc.	List	-10%	On request

Part number	ØD	ØE	H	ØG	ØF	Static load (N)	Price each 1 to 19
PR125-ENT	123	87	43	13	18	35000	13,71 €

Dimensions in mm

Articulated foot with solid base foot Ø40 Ste Sta

PTA40
PTA40ss

Accepts loads up to 3000N

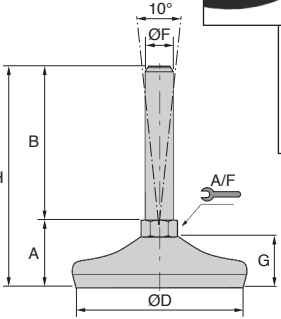
- **Articulated foot**
- Up to +/- 5° from vertical
- Materials:
  - ***Steel version:***
    Base: Galvanised sheet steel C40
    Shaft: Galvanised steel (nut not supplied)
    Sole: Vulcanised NBR rubber, hardness 80° Shore
  - ***Stainless steel version:***
    Base: Sheet stainless steel 304
    Shaft: Stainless steel 304 (nut not supplied)
    Sole: Vulcanised NBR rubber, hardness 80° Shore

Option

- Other shaft size available upon request

Stainless steel version, sanded finish





DISCOUNTS

Qty	1+	15+	20+	25+	40+
Disc.	List	-5%	-10%	-15%	On request

Part number bright	Part number sanded finish	ØD	ØF	B	A	A/F	G	H	Static load (N)		Price each 1 to 14
Steel foot											
PTA40-8-25	-	40	M8	25	26	6	15	51	3000	-	11,02 €
PTA40-8-50	-	40	M8	50	26	6	15	76	3000	-	11,44 €
PTA40-8-75	-	40	M8	75	26	6	15	101	3000	-	11,91 €
PTA40-10-25	-	40	M10	25	26	8	15	51	3000	-	11,44 €
PTA40-10-50	-	40	M10	50	26	8	15	76	3000	-	11,91 €
PTA40-10-75	-	40	M10	75	26	8	15	101	3000	-	12,33 €
PTA40-10-100	-	40	M10	100	26	8	15	126	3000	-	12,64 €
PTA40-10-125	-	40	M10	125	26	8	15	152	3000	-	12,80 €
Stainless steel foot											
PTA40-8-25/SS	PTA40-8-25/SS/SB	40	M8	25	26	6	15	51	3000	-	13,40 €
PTA40-8-50/SS	PTA40-8-50/SS/SB	40	M8	50	26	6	15	76	3000	-	13,81 €
PTA40-8-75/SS	PTA40-8-75/SS/SB	40	M8	75	26	6	15	101	3000	-	14,29 €
PTA40-10-25/SS	PTA40-10-25/SS/SB	40	M10	25	26	8	15	51	3000	-	14,59 €
PTA40-10-50/SS	PTA40-10-50/SS/SB	40	M10	50	26	8	15	76	3000	-	15,06 €
PTA40-10-75/SS	PTA40-10-75/SS/SB	40	M10	75	26	8	15	101	3000	-	15,51 €
PTA40-10-100/SS	PTA40-10-100/SS/SB	40	M10	100	26	8	15	126	3000	-	16,40 €
PTA40-10-125/SS	PTA40-10-125/SS/SB	40	M10	125	26	8	15	151	3000	-	17,05 €

All dimensions in mm

Sta Ste Articulated levelling foot, pressed base Ø50

Accepts loads up to 4.000N

PTA50
PTA50ss

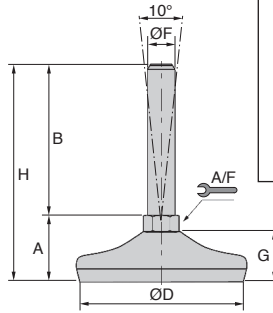
Stainless steel version, sanded finish



- **Tilting foot**
- Tilt up to +/- 5° from vertical
- The base of the stainless steel version is available with either a glossy or sandblasted finish
- Materials:

Steel version:
Base: Galvanised sheet steel C40
Spindle: Galvanised steel (nut not supplied)
Sole: Vulcanised NBR rubber, hardness 80° Shore

Stainless steel version:
Base: Sheet stainless steel 304
Spindle: Stainless steel 304 (nut not supplied)
Sole: Vulcanised NBR rubber, hardness 80° Shore



Option

- Other shaft dimensions are available on request

DISCOUNTS

Qty	1+	15+	20+	25+	40+
Disc.	List	-5%	-10%	-15%	On request

Part number bright	Part number sanded finish	ØD	ØF	B	A	A/F	G	H	Static load (N)	Stock* bright	Price each 1 to 14
Steel foot											
PTA50-10-100	-	50	M10	100	29	14	19	129	4000	✔	18,07 €
PTA50-12-100	-	50	M12	100	29	14	19	129	4000	✔	18,07 €
PTA50-12-150	-	50	M12	150	29	14	19	179	4000	-	19,50 €
PTA50-16-75	-	50	M16	75	29	16	19	104	4000	✔	18,55 €
PTA50-16-100	-	50	M16	100	29	16	19	129	4000	-	19,82 €
PTA50-16-150	-	50	M16	150	29	16	19	179	4000	✔	22,47 €
Stainless steel foot											
PTA50-10-75/SS	PTA50-10-75/SS/SB	50	M10	75	29	14	19	104	4000	✔	19,59 €
PTA50-10-125/SS	PTA50-10-125/SS/SB	50	M10	125	29	14	19	154	4000	✔	22,29 €
PTA50-12-75/SS	PTA50-12-75/SS/SB	50	M12	75	29	14	19	104	4000	✔	19,59 €
PTA50-12-125/SS	PTA50-12-125/SS/SB	50	M12	125	29	14	19	154	4000	✔	22,29 €
PTA50-16-75/SS	PTA50-16-75/SS/SB	50	M16	75	34	13	19	109	4000	✔	22,88 €
PTA50-16-100/SS	PTA50-16-100/SS/SB	50	M16	100	34	13	19	134	4000	✔	23,78 €
PTA50-16-150/SS	PTA50-16-150/SS/SB	50	M16	150	34	13	19	184	4000	-	26,16 €

*Depending on availability - Dimensions in mm

Articulated levelling foot, pressed base Ø80 Ste Sta

PTA80
PTA80ss

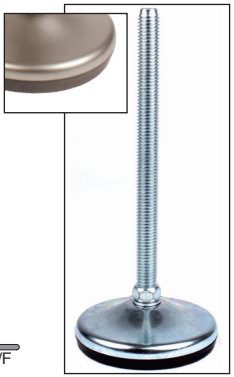
Accepts loads up to 10.000N

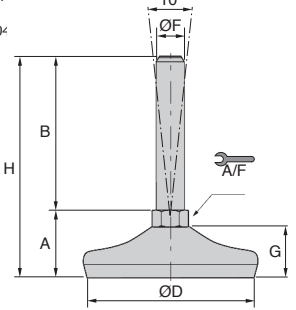
- **Tilting foot**
- Tilt up to +/- 5° from vertical
- The base of the stainless steel version is available with either a glossy or sandblasted finish
- Materials:

Steel version:
Base: Galvanised sheet steel C40
Spindle: Galvanised steel (nut not supplied)
Sole: Vulcanised NBR rubber, hardness 80° Shore

Stainless steel version:
Base: Stainless steel sheet 304
Spindle: Stainless steel 304 (nut not supplied)
Sole: Vulcanised NBR rubber, hardness 80° Shore

Stainless steel version, sanded finish





Option

- Other shaft dimensions are available on request

DISCOUNTS

Qty	1+	15+	20+	25+	40+
Disc.	List	-5%	-10%	-15%	On request

Part number bright	Part number sanded finish	ØD	ØF	B	A	A/F	G	H	Static load (N)	Stock* bright	Price each 1 to 14
Steel foot											
PTA80-12-100	-	80	M12	100	35	14	25	135	10000	✔	25,69 €
PTA80-12-150	-	80	M12	150	35	14	25	185	10000	-	28,59 €
PTA80-16-100	-	80	M16	100	35	16	25	135	10000	✔	28,39 €
PTA80-16-150	-	80	M16	150	35	16	25	185	10000	-	31,39 €
PTA80-20-100	-	80	M20	100	36	20	25	136	10000	-	29,81 €
PTA80-20-150	-	80	M20	150	36	20	25	186	10000	-	33,47 €
PTA80-20-200	-	80	M20	200	36	20	25	236	10000	✔	36,54 €
Stainless steel foot											
PTA80-12-100/SS	PTA80-12-100/SS/SB	80	M12	100	35	14	25	135	10000	✔	39,22 €
PTA80-12-150/SS	PTA80-12-150/SS/SB	80	M12	150	35	14	25	185	10000	✔	42,13 €
PTA80-16-100/SS	PTA80-16-100/SS/SB	80	M16	100	35	13	25	135	10000	-	42,13 €
PTA80-16-150/SS	PTA80-16-150/SS/SB	80	M16	150	35	13	25	185	10000	✔	45,07 €
PTA80-20-100/SS	PTA80-20-100/SS/SB	80	M20	100	38	17	25	138	10000	-	47,26 €
PTA80-20-150/SS	PTA80-20-150/SS/SB	80	M20	150	38	17	25	188	10000	✍	50,86 €
PTA80-20-200/SS	PTA80-20-200/SS/SB	80	M20	200	38	17	25	238	10000	✍	56,36 €

*Depending on availability - Dimensions in mm

Articulated fixable foot, pressed bolt-down base Ø80

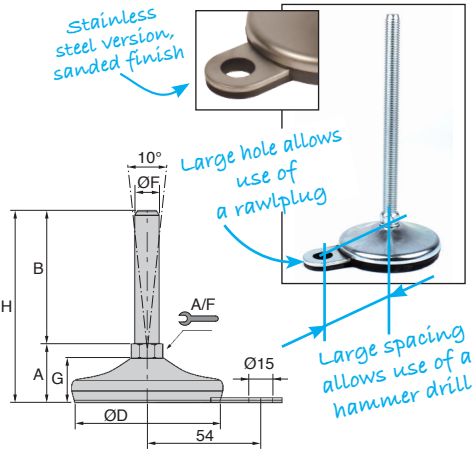
Accepts loads up to 10.000N

PTAF80
PAMF80

- **Tilting foot**
- Tilt up to +/- 5° from vertical
- With non-slip sole
- Materials:

Steel version:
Base : Galvanised sheet steel C40
Spindle: Galvanised steel (nut not supplied)
Sole: Vulcanised NBR rubber, hardness 80° Shore

Stainless steel version:
Base: Stainless steel sheet 304
Spindle: Stainless steel 304 (nut not supplied)
Sole: Vulcanised NBR rubber, 80° Shore



Advantages

- Easy to secure due to large distance between shaft and mounting hole

Option

- Other shaft dimensions are available on request

DISCOUNTS

Qty	1+	6+	10+	15+	20+
Disc.	List	-5%	-10%	-15%	On request

Part number Bright	Part number Sanded finish	Thread ØD	Thread ØF	B	A	A/F	G	H	Static load(N)	Bright	Price each 1 to 5
Steel foot											
PTAF80-12-100	-	80	M12	100	35	14	25	135	10000	✔	30,77 €
PTAF80-12-150	-	80	M12	150	35	14	25	185	10000	✔	33,36 €
PTAF80-16-100	-	80	M16	100	35	16	25	135	10000	✔	33,00 €
PTAF80-16-150	-	80	M16	150	35	16	25	185	10000	✔	36,24 €
PTAF80-20-100	-	80	M20	100	36	20	25	136	10000	-	34,74 €
PTAF80-20-150	-	80	M20	150	36	20	25	186	10000	-	38,02 €
PTAF80-20-200	-	80	M20	200	36	20	25	236	10000	-	41,38 €
Stainless steel foot											
PAMF80-12-100	PAMF80-12-100/SB	80	M12	100	35	14	25	135	10000	✔	48,07 €
PAMF80-12-150	PAMF80-12-150/SB	80	M12	150	35	14	25	185	10000	✔	50,94 €
PAMF80-16-75	PAMF80-16-75/SB	80	M16	75	35	13	25	110	10000	✔	48,76 €
PAMF80-16-125	PAMF80-16-125/SB	80	M16	125	35	13	25	160	10000	✔	52,44 €
PAMF80-16-175	PAMF80-16-175/SB	80	M16	175	35	13	25	210	10000	✔	56,07 €
PAMF80-20-100	PAMF80-20-100/SB	80	M20	100	38	17	25	138	10000	-	56,07 €
PAMF80-20-150	PAMF80-20-150/SB	80	M20	150	38	17	25	188	10000	-	59,73 €
PAMF80-20-200	PAMF80-20-200/SB	80	M20	200	38	17	25	238	10000	-	65,18 €

*Depending on availability - Dimensions in mm

Articulated fixable foot, pressed bolt-down base Ø100 Ste Sta

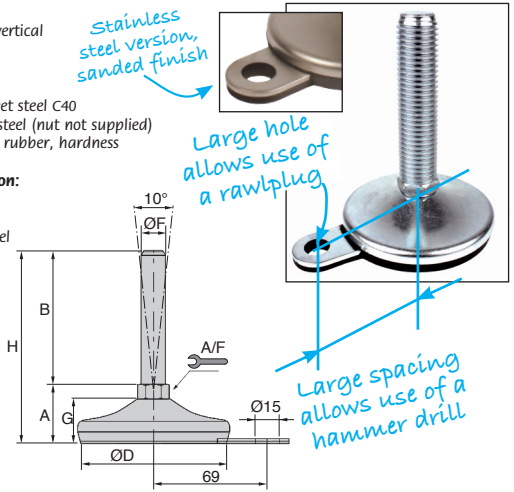
PTAF100
PAMF100

Accepts loads up to 15.000N

- **Tilting foot**
- Tilt up to +/- 5° from vertical
- With non-slip sole
- Materials:

Steel version:
Base: Galvanised sheet steel C40
Spindle: Galvanised steel (nut not supplied)
Sole: Vulcanised NBR rubber, hardness 80° Shore

Stainless steel version:
Base: Stainless sheet steel 304
Spindle: Stainless steel plate 304 (nut not supplied)
Sole: Vulcanised NBR rubber, 80° Shore



Advantages

- Easy to install due to large distance between shaft and mounting hole

Option

- Other shaft dimensions are available on request

DISCOUNTS

Qty	1+	6+	10+	15+	20+
Disc.	List	-5%	-10%	-15%	On request

Part number Bright	Part number Sanded finish	ØD	Thread ØF	B	A	A/F	G	H	Static load (N)	Stock* Bright	Price each 1 to 5
Steel foot											
PTAF100-16-100	-	100	M16	100	38	16	28	137,5	15000	✔	38,65 €
PTAF100-16-150	-	100	M16	150	38	16	28	187,5	15000	✔	41,69 €
PTAF100-16-200	-	100	M16	200	38	16	28	237,5	15000	✔	42,87 €
PTAF100-20-100	-	100	M20	100	39	20	28	138,5	15000	-	40,18 €
PTAF100-20-150	-	100	M20	150	39	20	28	188,5	15000	✔	43,80 €
PTAF100-20-200	-	100	M20	200	39	20	28	238,5	15000	✔	47,46 €
PTAF100-24-100	-	100	M24	100	39	24	28	138,5	15000	✔	46,19 €
PTAF100-24-150	-	100	M24	150	39	24	28	188,5	15000	-	50,12 €
Stainless steel foot											
PAMF100-16-100	PAMF100-16-100/SB	100	M16	100	39,5	13	30	139,5	15000	✔	69,93 €
PAMF100-16-150	PAMF100-16-150/SB	100	M16	150	39,5	13	30	189,5	15000	✔	72,12 €
PAMF100-16-200	PAMF100-16-200/SB	100	M16	200	39,5	13	30	239,5	15000	-	77,20 €
PAMF100-20-100	PAMF100-20-100/SB	100	M20	100	43,0	17	30	143,0	15000	-	74,29 €
PAMF100-20-150	PAMF100-20-150/SB	100	M20	150	43,0	17	30	193,0	15000	-	78,72 €
PAMF100-20-200	PAMF100-20-200/SB	100	M20	200	43,0	17	30	243,0	15000	-	83,78 €

*Depending on availability - Dimensions in mm

Ste Sta Articulated levelling foot, pressed base Ø100

Accepts loads up to 15.000N

PTA100
PTA100ss

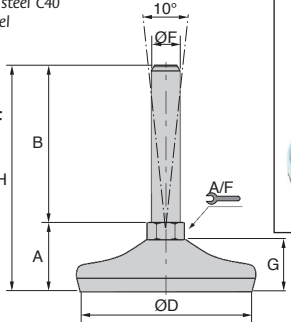
- **Tilting foot**
- tilt up to +/- 5° from vertical
- The base of the stainless steel version is available with either a glossy or sandblasted finish
- Materials:

Steel version:
Base: Galvanised sheet steel C40
Spindle: Galvanised steel (nut not supplied)
Sole: Vulcanised NBR rubber, hardness 80° Shore

Stainless steel version:
Base: Stainless steel sheet 304
Spindle: Stainless steel plate 304 (nut not supplied)
Sole: Vulcanised NBR rubber, hardness 80° Shore

Stainless steel version, sanded finish





Option

- Other shaft dimensions are available on request

DISCOUNTS

Qty	1+	15+	20+	25+	40+
Disc.	List	-5%	-10%	-15%	On request

Part number bright	Part number sanded finish	ØD	ØF	B	A	A/F	G	H	Static load (N)	Stock* bright	Price each 1 to 14
Steel foot											
PTA100-16-100	-	100	M16	100	38,0	16	28	137,5	15000	✔	31,39 €
PTA100-16-150	-	100	M16	150	38,0	16	28	187,5	15000	✔	34,49 €
PTA100-16-200	-	100	M16	200	38,0	16	28	237,5	15000	-	35,62 €
PTA100-20-100	-	100	M20	100	39,0	20	28	138,5	15000	✔	32,90 €
PTA100-20-150	-	100	M20	150	39,0	20	28	188,5	15000	-	36,54 €
PTA100-20-200	-	100	M20	200	39,0	20	28	238,5	15000	-	40,18 €
PTA100-24-100	-	100	M24	100	39,0	24	28	138,5	15000	-	38,90 €
PTA100-24-150	-	100	M24	150	39,0	24	28	188,5	15000	-	42,67 €
Stainless steel foot											
PTA100-16-100/SS	PTA100-16-100/SS/SB	100	M16	100	39,5	13	30	139,5	15000	✔	61,08 €
PTA100-16-150/SS	PTA100-16-150/SS/SB	100	M16	150	39,5	13	30	189,5	15000	-	63,24 €
PTA100-16-200/SS	PTA100-16-200/SS/SB	100	M16	200	39,5	13	30	239,5	15000	-	68,36 €
PTA100-20-100/SS	PTA100-20-100/SS/SB	100	M20	100	43,0	17	30	143,0	15000	-	65,46 €
PTA100-20-150/SS	PTA100-20-150/SS/SB	100	M20	150	43,0	17	30	193,0	15000	-	69,78 €
PTA100-20-200/SS	PTA100-20-200/SS/SB	100	M20	200	43,0	17	30	243,0	15000	-	74,88 €
PTA100-24-100/SS	PTA100-24-100/SS/SB	100	M24	100	44,0	20	30	144,0	15000	-	70,52 €
PTA100-24-150/SS	PTA100-24-150/SS/SB	100	M24	150	44,0	20	30	194,0	15000	-	72,74 €

*Depending on availability - Dimensions in mm

Pressed steel articulated foot Ø150 Ste Sta

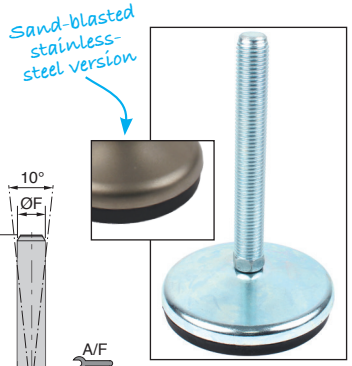
PTA150 PTA150ss

Accepts loads up to 40,000N

- **Levelling foot**
- Brilliant finish (sand-blasted finish for base of the stainless steel version)
- Materials:

Steel version:
Base: Chromed steel sheet C40
Rod: Chromed steel (nut not supplied)
Sole: Vulcanised rubber NBR hardness 80° Shore

Stainless steel version:
Base: 304 stainless steel, brilliant or sand-blasted finish
Rod: 304 stainless steel (nut not supplied)
Sole: Vulcanised rubber NBR hardness 80° Shore



Options

- Other rod sizes are available

DISCOUNTS

Qty	1+	15+	20+	25+	40+
Disc.	List	-5%	-10%	-15%	On request

Part number bright	Part number sanded finish	ØD	ØF	B	A	A/F	G	H	Static load (N)	Price each 1 to 14
Steel foot										
PTA150-24-100	-	150	M24	100	44	24	35	144	40000	60,98 €
PTA150-24-150	-	150	M24	150	44	24	35	194	40000	64,37 €
PTA150-24-200	-	150	M24	200	44	24	35	244	40000	68,02 €
PTA150-24-250	-	150	M24	250	44	24	35	294	40000	71,44 €
PTA150-30-100	-	150	M30	100	44	30	35	145	40000	66,94 €
PTA150-30-150	-	150	M30	150	44	30	35	195	40000	69,04 €
PTA150-30-200	-	150	M30	200	44	30	35	245	40000	75,99 €
PTA150-30-250	-	150	M30	250	44	30	35	395	40000	85,59 €
Stainless steel foot										
PTA150-24-100/SS	PTA150-24-100/SS/SB	150	M24	100	49	20	35	149	40000	87,88 €
PTA150-24-150/SS	PTA150-24-150/SS/SB	150	M24	150	49	20	35	199	40000	92,71 €
PTA150-24-200/SS	PTA150-24-200/SS/SB	150	M24	200	49	20	35	249	40000	97,56 €
PTA150-24-250/SS	PTA150-24-250/SS/SB	150	M24	250	49	20	35	299	40000	102,39 €
PTA150-30-100/SS	PTA150-30-100/SS/SB	150	M30	100	50	26	35	150	40000	100,01 €
PTA150-30-150/SS	PTA150-30-150/SS/SB	150	M30	150	50	26	35	200	40000	107,08 €
PTA150-30-200/SS	PTA150-30-200/SS/SB	150	M30	200	50	26	35	250	40000	113,02 €
PTA150-30-250/SS	PTA150-30-250/SS/SB	150	M30	250	50	26	35	300	40000	118,93 €

All dimensions in mm

Sta Articulated foot with sheet metal base Ø50

Max load: 4000N
Rubber sole in EPDM, blue

PTA50SS/EB

- ***Articulated adjustable levelling feet***
- *Axial articulation +/- 10°*
- *With non-slip sole in EPDM Blue*
- *Stainless steel in shiny finish*
- *Materials:*
  Base: shiny 304 stainless steel sheet
  Thread: 304 stainless steel, supplied without nut
  Sole: EPDM blue

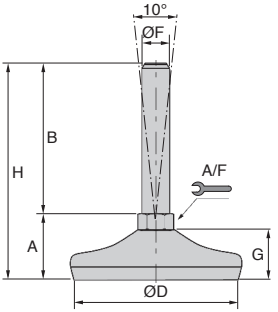


Options

- *Other thread dimensions on request*
- *316 grade Stainless steel on request*

Advantages

- *Hygienic special sole for easy cleaning.*
- *Food processing, Pharmaceutical and Chemical Environment*



DISCOUNTS

Qty	1+	6+	10+	15+	20+
Disc.	Price	-5%	-10%	-15%	On request

Part number	ØD	ØF	B	A	A/F	G	H	Static load(N)	Price per unit 1 to 5
PTA50-10-75/SS/EB	50	M10	75	29	14	19	104	4,000	23,42 €
PTA50-10-125/SS/EB	50	M10	125	29	14	19	154	4,000	23,79 €
PTA50-12-75/SS/EB	50	M12	75	29	14	19	104	4,000	23,42 €
PTA50-12-125/SS/EB	50	M12	125	29	14	19	154	4,000	25,88 €
PTA50-16-75/SS/EB	50	M16	75	34	13	19	109	4,000	22,51 €
PTA50-16-100/SS/EB	50	M16	100	34	13	19	134	4,000	23,57 €
PTA50-16-150/SS/EB	50	M16	150	34	13	19	184	4,000	25,66 €

** Depending on availability - Dimensions in mm*

Sta Articulated foot with sheet metal base Ø80

Max load: 10,000N
Rubber sole in EPDM, blue

PTA80SS/EB

- ***Articulated adjustable levelling feet***
- *Axial articulation +/- 10°*
- *With non-slip sole in EPDM Blue*
- *Stainless steel in shiny finish*
- *Materials:*
  Base: shiny 304 stainless steel sheet
  Thread: 304 stainless steel, supplied without nut
  Sole: EPDM blue

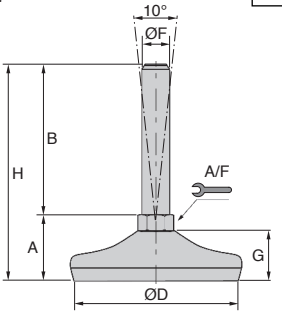


Options

- *Other thread dimensions on request*
- *316 grade Stainless steel on request*

Advantages

- *Hygienic special sole for easy cleaning.*
- *Food processing, Pharmaceutical and Chemical Environment*



DISCOUNTS

Qty	1+	6+	10+	15+	20+
Disc.	Price	-5%	-10%	-15%	On request

Part number	ØD	ØF	B	A	A/F	G	H	Static load(N)	Price per unit 1 to 5
PTA80-12-100/SS/EB	80	M12	100	35	14	25	135	10000	35,57 €
PTA80-12-150/SS/EB	80	M12	150	35	14	25	185	10000	38,15 €
PTA80-16-100/SS/EB	80	M16	100	35	13	25	135	10000	38,15 €
PTA80-16-150/SS/EB	80	M16	150	35	13	25	185	10000	40,63 €
PTA80-20-100/SS/EB	80	M20	100	38	17	25	138	10000	42,60 €
PTA80-20-150/SS/EB	80	M20	150	38	17	25	188	10000	45,72 €
PTA80-20-200/SS/EB	80	M20	200	38	17	25	238	10000	50,48 €

** Depending on availability - Dimensions in mm*

Articulated foot with sheet metal base Ø100

PTA100SS/EB

Max load: 15,000N
Rubber sole in EPDM, blue

- ***Articulated adjustable levelling feet***
- *Axial articulation +/- 10°*
- *With non-slip sole in EPDM Blue*
- *Stainless steel in shiny finish*
- *Materials:*
  Base: shiny 304 stainless steel sheet
  Thread: 304 stainless steel, supplied without nut
  Sole: EPDM blue

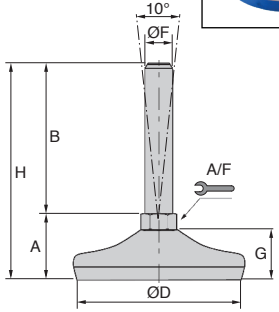


Options

- *Other thread dimensions on request*
- *316 grade Stainless steel on request*

Advantages

- *Hygienic special sole for easy cleaning.*
- *Food processing, Pharmaceutical and Chemical Environment*



DISCOUNTS

Qty	1+	6+	10+	15+	20+
Disc.	Price	-5%	-10%	-15%	On request

Part number	ØD	ØF	B	A	A/F	G	H	Static load(N)	Price per unit 1 to 5
PTA100-16-100/SS/EB	100	M16	100	39.5	13	30	139.5	15000	54,84 €
PTA100-16-150/SS/EB	100	M16	150	39.5	13	30	189.5	15000	56,75 €
PTA100-16-200/SS/EB	100	M16	200	39.5	13	30	239.5	15000	61,21 €
PTA100-20-100/SS/EB	100	M20	100	43.0	17	30	143.0	15000	58,66 €
PTA100-20-150/SS/EB	100	M20	150	43.0	17	30	193.0	15000	62,42 €
PTA100-20-200/SS/EB	100	M20	200	43.0	17	30	243.0	15000	66,87 €
PTA100-24-100/SS/EB	100	M24	100	44.0	20	30	144.0	15000	63,08 €
PTA100-24-150/SS/EB	100	M24	150	44.0	20	30	194.0	15000	64,99 €

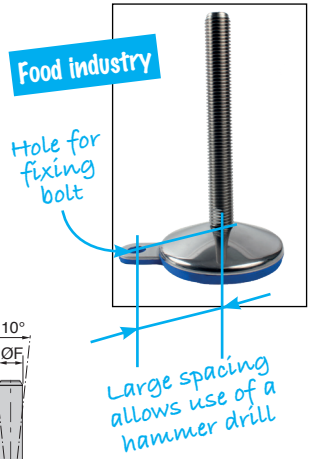
** Depending on availability - Dimensions in mm*

Sta Articulated foot with sheet metal base Ø80

Max load: 10,000N
Rubber sole in EPDM, blue

PAMF80EB

- **Articulated adjustable levelling feet**
- Axial articulation +/- 10°
- With non-slip sole in EPDM Blue
- Stainless steel in shiny finish
- Materials:
  Base: shiny 304 stainless steel sheet
  Thread: 304 stainless steel, supplied without nut
  Sole: EPDM blue

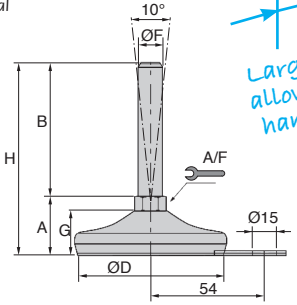


Options

- Other thread dimensions on request
- 316 grade Stainless steel on request

Advantages

- Hygienic special sole for easy cleaning
- Food processing, Pharmaceutical and Chemical Environment



DISCOUNTS

Qty	1+	6+	10+	15+	20+
Disc.	Price	-5%	-10%	-15%	On request

Part number	ØD	ØF	B	A	A/F	G	H	Static load(N)	Price per unit 1 to 5
PAMF80-12-100/EB	80	M12	100	35	14	25	135	10000	39,71 €
PAMF80-12-150/EB	80	M12	150	35	14	25	185	10000	41,97 €
PAMF80-16-75/EB	80	M16	75	35	13	25	110	10000	40,25 €
PAMF80-16-125/EB	80	M16	125	35	13	25	160	10000	43,13 €
PAMF80-16-175/EB	80	M16	175	35	13	25	210	10000	45,97 €
PAMF80-20-100/EB	80	M20	100	38	17	25	138	10000	45,97 €
PAMF80-20-150/EB	80	M20	150	38	17	25	188	10000	48,81 €
PAMF80-20-200/EB	80	M20	200	38	17	25	238	10000	53,08 €

*Within the limits of available stock - Dimensions in mm

Articulated foot with sheet metal base Ø100

PAMF100EB

Max load: 15,000N
Rubber sole in EPDM, blue

- ***Articulated adjustable levelling feet***
- *Axial articulation +/- 10°*
- *With non-slip sole in EPDM Blue*
- *Stainless steel in shiny finish*
- *Materials:*
  Base: shiny 304 stainless steel sheet
  Thread: 304 stainless steel, supplied without nut
  Sole: EPDM blue

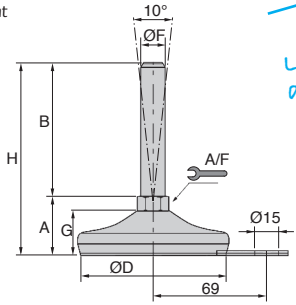
Options

- *Other thread dimensions on request*
- *316 grade Stainless steel on request*

Advantages

- *Hygienic special pad for easy cleaning.*
- *Food processing, Pharmaceutical and Chemical Environment*





DISCOUNTS

Qty	1+	6+	10+	15+	20+
Disc.	Price	-5%	-10%	-15%	On request

Part number	Threading ØD	ØF	B	A	A/F	G	H	Static load(N)	Price per unit 1 to 5
PAMF100-16-100/EB	100	M16	100	39.5	13	30	139.5	15000	57,67 €
PAMF100-16-150/EB	100	M16	150	39.5	13	30	189.5	15000	59,42 €
PAMF100-16-200/EB	100	M16	200	39.5	13	30	239.5	15000	63,43 €
PAMF100-20-100/EB	100	M20	100	43.0	17	30	143.0	15000	61,11 €
PAMF100-20-150/EB	100	M20	150	43.0	17	30	193.0	15000	64,59 €
PAMF100-20-200/EB	100	M20	200	43.0	17	30	243.0	15000	68,58 €

** Depending on availability - Dimensions in mm*

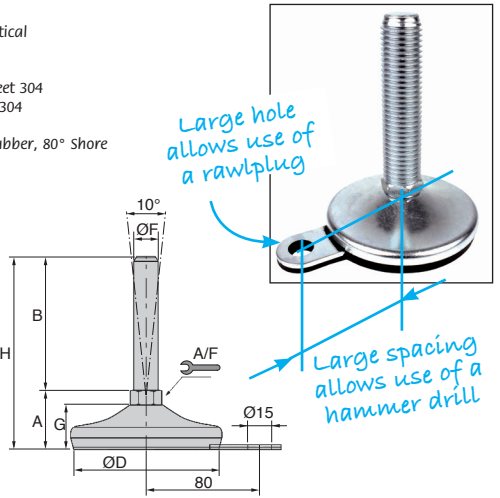
Articulated fixable foot, pressed bolt-down base Ø120 Sta

PAMF120 Accepts loads up to 30 000N

Tilting foot
- Tilt up to +/- 5° from vertical
- With non-slip sole
- Materials:
  Base: Stainless steel sheet 304
  Spindle: Stainless steel 304
  (nut not supplied)
  Sole: Vulcanised NBR rubber, 80° Shore

Advantages
- Easy to secure due to large distance between shaft and mounting hole

Options
- Other shaft dimensions are available on request



DISCOUNTS

Qty	1+	6+	10+	15+	20+
Disc.	List	-5%	-10%	-15%	On request

Part number	ØD	ØF	B	A	A/F	G	H	Static load (N)	Price each 1 to 5
PAMF120-16-100/SS	120	M16	100	47	13	32	147	30000	75,62 €
PAMF120-16-150/SS	120	M16	150	47	13	32	197	30000	77,73 €
PAMF120-16-200/SS	120	M16	200	47	13	32	247	30000	81,44 €
PAMF120-20-100/SS	120	M20	100	47	17	32	147	30000	78,04 €
PAMF120-20-150/SS	120	M20	150	47	17	32	197	30000	81,10 €
PAMF120-20-200/SS	120	M20	200	47	17	32	247	30000	85,04 €
PAMF120-20-250/SS	120	M20	250	47	17	32	297	30000	89,94 €
PAMF120-24-150/SS	120	M24	150	49	20	32	199	30000	89,94 €
PAMF120-24-200/SS	120	M24	200	49	20	32	249	30000	94,51 €
PAMF120-24-250/SS	120	M24	250	49	20	32	299	30000	101,91 €

Dimensions in mm

Articulated pressed steel feet Ø80

Maximum load 20,000N

PARF80

Economical



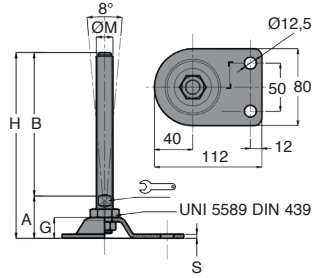
- **Swivelling mounting foot with steel mounting plate**
- Materials:
  Base - chromed steel plate
  Threaded shaft - chromed steel

Usage

- The threaded shaft is free to rotate
- A nut under the mounting base allows both rotation and angular inclination (+/-4°) movement to be restricted and means these feet can be used to support posts with recessed holes or mounting plates used with a nut and locknut.
- Angular blocking reduces noise and any lever effect on the mountings (avoids risk of being pulled out)

Advantage

- Ideal for floor mounting robots and also increased speed of production



DISCOUNTS

Qty	1+	6+	10+	15+	20+
Disc.	List	-5%	-10%	-15%	On request

Part number	ØM	B	S	A	SW	G	H	Static load (N)	Price each 1 to 5
PARF80-16-150	M16	150	3	39,5	13	19	189,5	20000	19,11 €
PARF80-16-200	M16	200	3	39,5	13	19	239,5	20000	20,40 €
PARF80-20-150	M20	150	3	40,5	17	19	190,5	20000	21,88 €
PARF80-20-200	M20	200	3	40,5	17	19	240,5	20000	23,77 €

Dimensions in mm

Articulated pressed steel feet Ø10 Ste

PARF110 Maximum load 30,000N

- ***Swivelling mounting foot with steel mounting plate***
- *Materials:*
  Base - chromed steel plate
  Threaded shaft - chromed steel

Economical

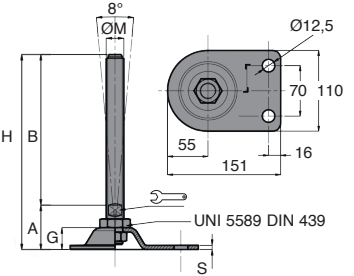


Usage

- *The threaded shaft is free to rotate*
- *A nut under the mounting base allows both rotation and angular inclination (+/-4°) movement to be restricted and means these feet can be used to support posts with recessed holes or mounting plates used with a nut and locknut.*
- *Angular blocking reduces noise and any lever effect on the mountings (avoids risk of being pulled out)*

Advantage

- *Ideal for floor mounting robots and also increased speed of production*



DISCOUNTS

Qty	1+	6+	10+	15+	20+
Disc.	List	-5%	-10%	-15%	On request

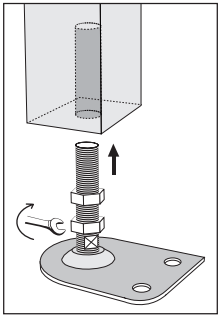
Part number	ØM	B	S	A	SW	G	H	Static load (N)	Price each 1 to 5
PARF110-16-150	M16	150	4	41	17	19	191	25000	22,00 €
PARF110-16-200	M16	200	4	41	17	19	241	25000	23,21 €
PARF110-20-150	M20	150	4	42	17	19	192	25000	24,66 €
PARF110-20-200	M20	200	4	42	17	19	242	25000	26,70 €
PARF110-24-150	M24	150	4	43	20	19	193	30000	29,25 €
PARF110-24-200	M24	200	4	43	20	19	243	30000	32,24 €

Dimensions in mm

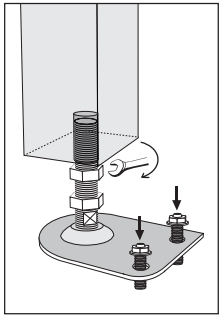
Sheet steel levelling feet, bolt-down

Mounting instructions

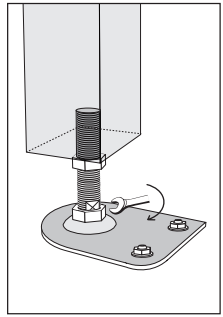
In a post with a blind hole



Using the flats on the thread, insert the stem into the blind hole and adjust to the required height

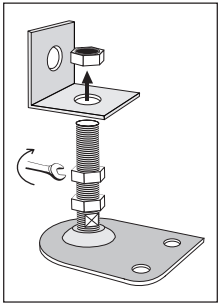


Tighten the lock nut (not supplied) and then secure the foot to the ground

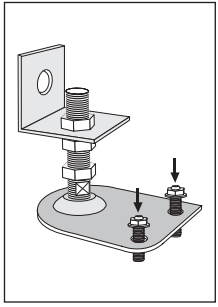


Once levelled, tighten the nut to the base to secure the stem in its angular position

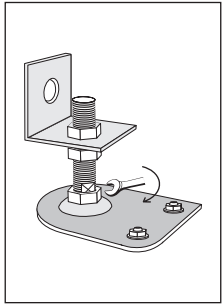
Using mounting brackets



Adjust the height of the foot using a nut and counter-nut (not supplied)



Once at the required height, secure the foot to the ground



Once levelled, tighten the nut to the base to secure the stem in its angular position

Floor mounting levelling plate

SPIT

Maximum load 40,000N

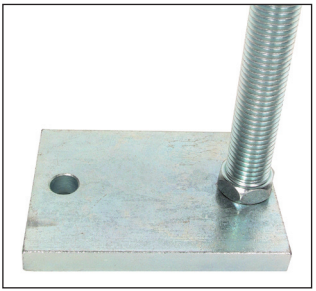
- ***Levelling foot for attaching to a floor***
- *Materials:*
  Base: galvanised steel
  Rod: galvanised steel (nut not supplied)

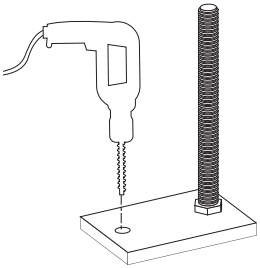
Advantages

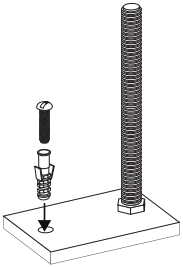
- *Capable of accepting heavy loads.*

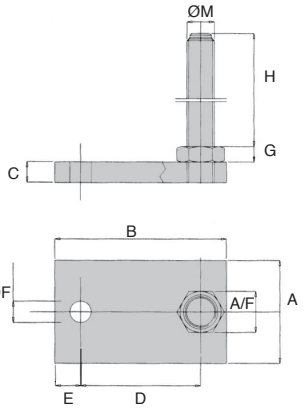
Option

- *In stainless steel or other dimension (subject to quantity)*









DISCOUNTS

Qty	1+	25+	50+
Disc.	List	-5%	On request

Part number	A	B	C	ØM	H	D	E	ØF	G	A/F	Max. load(N)	Stock*	Price each 1 to 24
SPIT16-150	60	100	12	M16	150	70	15	18	9	24	30000	✔	29,15 €
SPIT20-200	80	110	12	M20	200	80	15	18	9	24	40000	✔	32,58 €

**Depending on availability - Dimensions in mm*

Pressed stainless steel articulated foot

Maximum load 12,000N — PAT85ss

- **Articulated foot**
- **Tilt: +/- 4° from vertical**
- Materials:
  Base and spindle: stainless steel 1.4301 (304)
  Sole: vulcanised rubber (Shore hardness 80)
  Base: Ø85mm

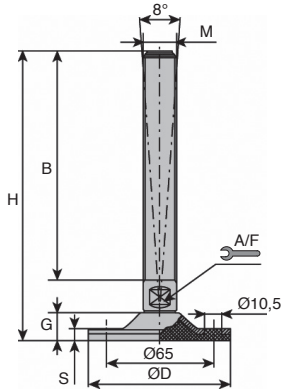


Uses

- Laboratory furniture
- Medical and food industries

Note

- Values for static load given at 50% of rod length. With dynamic or vibrating loads, value will be lower.



DISCOUNTS

Qty	1+	6+	10+	15+
Disc.	List	-5%	-10%	On request

Part number	S	B	ØD	A/F	M	G	H (N)	Static load (N)	Stock*	Price each 1 to 5
PAT85-16-100/SS	7	100	85	13	M16	16	130	12000	✔	56,17 €
PAT85-16-150/SS	7	150	85	13	M16	16	180	12000	-	59,10 €
PAT85-16-175/SS	7	175	85	13	M16	16	205	12000	✔	61,97 €
PAT85-20-100/SS	7	100	85	17	M20	16	130	12000	-	59,10 €
PAT85-20-150/SS	7	150	85	17	M20	16	180	12000	✔	61,80 €
PAT85-20-200/SS	7	200	85	17	M20	16	230	12000	-	63,71 €

**Depending on availability - Dimensions in mm*

Pressed stainless steel articulated foot Sta Eco

PAT123ss — Maximum load 20,000N

- **Articulated foot**
- **Swivel: +/- 4° from vertical**
- Materials:
  Base and spindle: stainless steel 1.4301 (304)
  Sole: vulcanised rubber (Shore hardness 80)
- Base Ø123mm

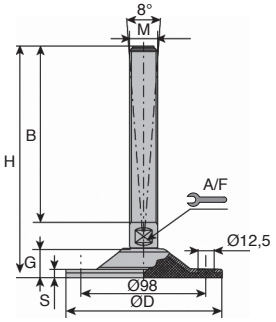


Uses

- Laboratory furniture
- Medical and food industries

Note

- Values for static load given at 50% of rod length. With dynamic or vibrating loads, value will be lower



DISCOUNTS

Qty	1+	6+	10+	15+
Disc.	List	-5%	-10%	On request

Part number	S	B	ØD	A/F	M	G	H (N)	Static load (N)	Stock*	Price each 1 to 5
PAT123-16-100/SS	7	100	123	13	M16	23,5	137	20000	✔	74,96 €
PAT123-16-150/SS	7	150	123	13	M16	23,5	187	20000	-	77,91 €
PAT123-16-175/SS	7	175	123	13	M16	23,5	212	20000	✔	81,83 €
PAT123-20-100/SS	7	100	123	17	M20	23,5	137	20000	-	78,07 €
PAT123-20-150/SS	7	150	123	17	M20	23,5	187	20000	-	78,68 €
PAT123-20-200/SS	7	200	123	17	M20	23,5	237	20000	✔	81,02 €
PAT123-24-100/SS	7	100	123	20	M24	23,5	138	20000	-	79,43 €
PAT123-24-150/SS	7	150	123	20	M24	23,5	188	20000	-	81,02 €
PAT123-24-200/SS	7	200	123	20	M24	23,5	238	20000	-	83,93 €
PAT123-30-150/SS	7	150	123	26	M30	23,5	188	20000	-	91,28 €
PAT123-30-200/SS	7	200	123	26	M30	23,5	238	20000	-	100,79 €
PAT123-30-250/SS	7	250	123	26	M30	23,5	288	20000	-	108,70 €

*Depending on availability - Dimensions in mm

Pressed steel levelling foot

Maximum load 11,000N

PFM

- **Levelling foot**
- Materials:
  Base and spindle: zinc plated or stainless steel 1.4301 (304)
  Base: NBR rubber (Shore hardness 80)
- Ø80 and Ø100mm bases available
- Supplied with 2 nuts, 1 flat washer and 1 brake washer

Stainless steel version

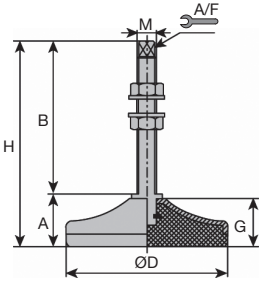


Uses

- Laboratory furniture
- Medical and food industries

Note

- Values for static load given at 50% of spindle length. With dynamic or vibrating loads, value will be lower.



DISCOUNTS

Qty	1+	6+	10+	15+
Disc.	List	-5%	-10%	On request

Part number	ØD	M	B	A	A/F	G	H	Static load (N)	Stock*	Price each 1 to 5
Steel foot										
PFM80-12-75	80	M12	75	28	8	25	103	4500	✔	36,01 €
PFM80-14-100	80	M14	100	28	9	25	128	4500	-	39,78 €
PFM100-12-75	100	M12	75	31	8	28	106	9000	-	38,62 €
PFM100-14-125	100	M14	125	31	9	28	156	9000	-	40,42 €
PFM100-16-125	100	M16	125	31	10	28	156	9000	✔	42,16 €
PFM120-20-125	120	M20	125	35	13	32	160	11000	-	64,04 €
Stainless steel foot										
PFM80-12-75/SS	80	M12	75	28	8	25	103	4500	✔	62,07 €
PFM80-14-100/SS	80	M14	100	28	9	25	128	4500	-	66,19 €
PFM100-12-75/SS	100	M12	75	31	8	28	106	9000	-	70,32 €
PFM100-14-125/SS	100	M14	125	31	9	28	156	9000	-	73,73 €
PFM100-16-125/SS	100	M16	125	31	10	28	156	9000	✔	79,06 €
PFM120-20-125/SS	120	M20	125	35	13	32	160	11000	-	89,89 €

*Depending on availability - Dimensions in mm

Stainless steel articulated foot

Stock Sta Size XS

PAMss

Maximum load 9,000N

- **Tilting foot**
- **Tilt: +/- 5° from vertical**
- *Materials:*
  Base and spindle: stainless steel 1.4301 (304)
  Sole: vulcanised rubber (Shore hardness 90)
- *Ø30 and Ø40mm bases available*

Small sizes



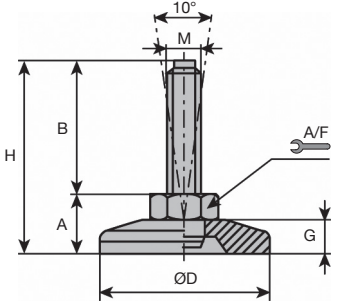
solid stainless steel

Uses

- *Laboratory furniture*
- *Medical and food industries*

Note

- *Values for static load given at 50% of spindle length. With dynamic or vibrating loads, value will be lower*



DISCOUNTS

Qty	1+	12+	20+	40+
Disc.	List	-5%	-10%	On request

Part number	A	B	ØD	A/F	M	G	H	Static load (N)	Stock*	Price each 1 to 11
PAM30-8-25/SS	14	25	30	14	M8	8	39	8000	✔	19,29 €
PAM30-8-50/SS	14	50	30	14	M8	8	64	8000	✔	20,19 €
PAM30-10-25/SS	14	25	30	14	M10	8	39	8000	-	19,29 €
PAM30-10-50/SS	14	50	30	14	M10	8	64	8000	✔	20,19 €
PAM30-10-75/SS	14	75	30	14	M10	8	89	8000	✔	23,91 €
PAM38-8-25/SS	14	25	40	14	M8	8	39	9000	✔	21,69 €
PAM38-8-50/SS	14	50	40	14	M8	8	64	9000	✔	23,81 €
PAM38-10-25/SS	14	25	40	14	M10	8	39	9000	-	21,69 €
PAM38-10-50/SS	14	50	40	14	M10	8	64	9000	-	23,81 €
PAM38-10-75/SS	14	75	40	14	M10	8	89	9000	✔	25,42 €
PAM38-12-50/SS	14	50	40	14	M12	8	64	9000	✔	23,81 €
PAM38-12-100/SS	14	100	40	14	M12	8	114	9000	✔	27,22 €

**Depending on availability - Dimensions in mm*

Sta Solid stainless steel articulated foot Ø30

Max load up to 10,000N

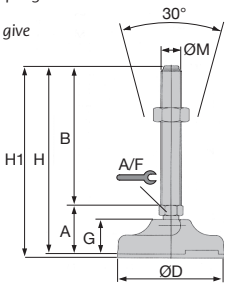
PRS30

- **Levelling foot**
- Oscillation +/- 15° with respect to the axis
- With non-slip sole
- Materials:
  Base: AISI 304 stainless steel
  Rod: stainless steel AISI 304
  (nut not supplied)
  Sole: rubber NBR hardness 70° Shore, non-slip



Advantages

- The rod with its ball-and-socket arrangement allows self-alignment with the ground
- The sole is designed to give flexibility and grip



DISCOUNTS

Qty	1+	6+	10+	15+
Disc.	Net	-5%	-10%	On request

Références	ØM	A	B	ØD	A/F	G	H	H1	Static load (N)	Price each 1 à 5
PRS30-6-25	M6	23,5	25	30	12	13	48,5	49	5000	24,29 €
PRS30-6-50	M6	23,5	50	30	12	13	73,5	74	5000	25,87 €
PRS30-6-75	M6	23,5	75	30	12	13	88,5	89	5000	27,48 €
PRS30-8-25	M8	23,5	25	30	12	13	48,5	49	8000	24,29 €
PRS30-8-50	M8	23,5	50	30	12	13	73,5	74	8000	25,87 €
PRS30-8-75	M8	23,5	75	30	12	13	88,5	89	8000	27,48 €
PRS30-8-100	M8	23,5	100	30	12	13	123,5	124	8000	31,54 €
PRS30-10-25	M10	23,5	25	30	12	13	48,5	49	10000	24,29 €
PRS30-10-50	M10	23,5	50	30	12	13	73,5	74	10000	25,87 €
PRS30-10-75	M10	23,5	75	30	12	13	88,5	89	10000	27,48 €
PRS30-10-100	M10	23,5	100	30	12	13	123,5	124	10000	31,54 €
PRS30-10-125	M10	23,5	125	30	12	13	148,5	149	10000	29,67 €
PRS30-12-25	M12	23,5	25	30	12	13	48,5	49	10000	24,29 €
PRS30-12-50	M12	23,5	50	30	12	13	73,5	74	10000	25,87 €
PRS30-12-75	M12	23,5	75	30	12	13	88,5	89	10000	27,48 €
PRS30-12-100	M12	23,5	100	30	12	13	123,5	124	10000	29,10 €
PRS30-12-125	M12	23,5	125	30	12	13	148,5	149	10000	30,74 €
PRS30-12-150	M12	23,5	150	30	12	13	173,5	174	10000	32,36 €

Dimensions in mm

Stainless steel articulated foot Ø50 Sta Stock

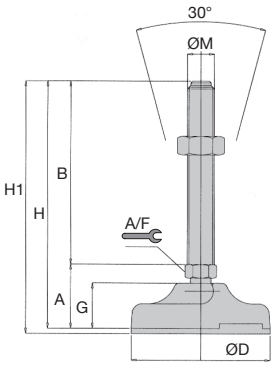
PRS50 — Maximum load 15,000N

- **Levelling foot**
- With non-slip base
- Materials:
  Base: stainless steel AISI 304
  Spindle: stainless steel AISI 304
  (nut not supplied)
  Sole: NBR rubber (Shore hardness 70)



Advantages

- Articulated spindle allows auto-alignment with the floor
- Sole material ensures flexibility and grip



DISCOUNTS

Qty	1+	6+	10+	15+
Disc.	List	-5%	-10%	On request

Part number	ØM	A	B	ØD	A/F	G	H	H1	Static load (N)	Stock*	Price each 1 to 5
PRS50-10-50	M10	28	50	50	14	16	78	81	15000	✔	43,94 €
PRS50-10-75	M10	28	75	50	14	16	103	106	15000	✔	46,83 €
PRS50-10-100	M10	28	100	50	14	16	128	131	15000	✔	49,55 €
PRS50-10-125	M10	28	125	50	14	16	153	156	15000	✔	52,26 €
PRS50-12-50	M12	28	50	50	14	16	78	81	15000	✔	43,94 €
PRS50-12-75	M12	28	75	50	14	16	103	106	15000	✔	46,83 €
PRS50-12-100	M12	28	100	50	14	16	128	131	15000	✔	49,55 €
PRS50-12-125	M12	28	125	50	14	16	153	156	15000	✔	52,26 €
PRS50-14-50	M14	28	50	50	14	16	78	81	15000	-	43,94 €
PRS50-14-75	M14	28	75	50	14	16	103	106	15000	-	46,83 €
PRS50-14-100	M14	28	100	50	14	16	128	131	15000	-	49,55 €
PRS50-14-125	M14	28	125	50	14	16	153	156	15000	-	52,26 €

*Depending on availability - Dimensions in mm

Stainless steel articulated foot Ø80

Maximum load 30,000N

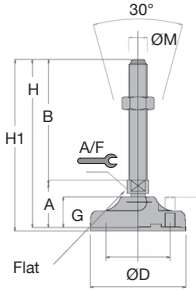
PRS80

- **Levelling foot**
- Non slip base
- Materials:
  Base: stainless steel AISI 304
  Threaded spindle: stainless steel AISI 304 (nut not supplied)
  Sole: NBR rubber (Shore hardness 70)



Advantages

- Articulated spindle allows auto-alignment with the floor
- Sole material ensures flexibility and grip



DISCOUNTS

Qty	1+	6+	10+	15+
Disc.	List	-5%	-10%	On request

Part number	ØM	A	B	ØD	A/F	G	H	H1	Static load (N)	Stock*	Price each 1 to 5
PRS80-16-50	M16	36	50	80	13	19,5	86	89	30000	✔	92,58 €
PRS80-16-75	M16	36	75	80	13	19,5	111	114	30000	-	93,58 €
PRS80-16-100	M16	36	100	80	13	19,5	136	139	30000	✔	94,69 €
PRS80-16-125	M16	36	125	80	13	19,5	159	164	30000	✔	95,66 €
PRS80-16-150	M16	36	150	80	13	19,5	186	189	30000	✔	96,81 €
PRS80-16-175	M16	36	175	80	13	19,5	211	214	30000	-	97,78 €
PRS80-16-200	M16	36	200	80	13	19,5	236	239	30000	✔	98,91 €
PRS80-20-75	M20	36	75	80	13	19,5	111	114	30000	-	95,22 €
PRS80-20-100	M20	36	100	80	13	19,5	136	139	30000	-	96,27 €
PRS80-20-125	M20	36	125	80	13	19,5	161	164	30000	-	97,30 €
PRS80-20-150	M20	36	150	80	13	19,5	186	189	30000	-	98,37 €
PRS80-20-175	M20	36	175	80	13	19,5	211	214	30000	✔	99,41 €
PRS80-20-200	M20	36	200	80	13	19,5	236	239	30000	-	100,48 €
PRS80-20-225	M20	36	225	80	13	19,5	261	264	30000	-	101,55 €

*Depending on availability - Dimensions in mm

Stainless steel articulated foot Ø100 Sta

PRS100

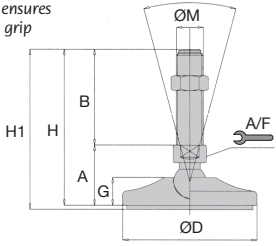
Maximum load 55,000N

- **Levelling foot**
- Non slip base
- Materials:
  Base: stainless steel AISI 304
  Threaded spindle: stainless steel AISI 304 (nut not supplied)
  Sole: NBR rubber (Shore hardness 70)



Advantages

- Articulated spindle allows auto-alignment with the floor
- Sole material ensures flexibility and grip



DISCOUNTS

Qty	1+	6+	10+	15+
Disc.	List	-5%	-10%	On request

Part number	ØM	A	B	ØD	A/F	G	H	H1	Static load (N)	Price each 1 to 5
PRS100-16-75	M16	43	75	100	20	20	118	121	35000	121,73 €
PRS100-16-100	M16	43	100	100	20	20	143	146	35000	126,19 €
PRS100-16-125	M16	43	125	100	20	20	168	171	35000	129,62 €
PRS100-16-150	M16	43	150	100	20	20	193	196	35000	133,46 €
PRS100-16-175	M16	43	175	100	20	20	218	221	35000	135,96 €
PRS100-16-200	M16	43	200	100	20	20	243	246	35000	143,24 €
PRS100-20-75	M20	43	75	100	20	20	118	121	45000	121,73 €
PRS100-20-100	M20	43	100	100	20	20	143	146	45000	117,81 €
PRS100-20-125	M20	43	125	100	20	20	168	171	45000	129,62 €
PRS100-20-150	M20	43	150	100	20	20	193	196	45000	133,46 €
PRS100-20-175	M20	43	175	100	20	20	218	221	45000	135,96 €
PRS100-20-200	M20	43	200	100	20	20	243	246	45000	143,24 €
PRS100-20-225	M20	43	225	100	20	20	268	271	45000	147,44 €
PRS100-20-250	M20	43	250	100	20	20	293	296	45000	152,64 €
PRS100-24-75	M24	44	75	100	20	20	119	122	55000	121,73 €
PRS100-24-100	M24	44	100	100	20	20	144	147	55000	126,19 €
PRS100-24-125	M24	44	125	100	20	20	169	172	55000	129,62 €
PRS100-24-150	M24	44	150	100	20	20	199	202	55000	133,46 €
PRS100-24-175	M24	44	175	100	20	20	219	222	55000	135,96 €
PRS100-24-200	M24	44	200	100	20	20	244	247	55000	143,24 €
PRS100-24-225	M24	44	225	100	20	20	269	272	55000	147,44 €
PRS100-24-250	M24	44	250	100	20	20	294	297	55000	152,64 €

Dimensions in mm

Stainless steel swivelling foot

Max load 25,000N

PTKSS

- **"Teknohygienic" swivelling foot**
- Materials:
  Base: stainless steel 304
  Stem: stainless steel 304
  Sole: NBR rubber Shore hardness 90°

For the food industry

stainless steel

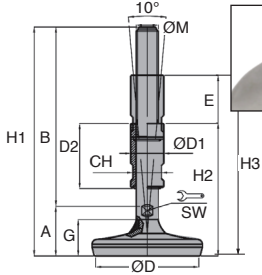
Avoids water retention





Advantages

- The 3-A standard designates poducts that are designed for the dairy, food and pharmaceutical industries where strict hygiene rules apply.
- Smooth finished foot with a wiper seal between the stem and the nut and around the swivel to prevent accumulation of dirt or retention of water
- Suitable for cleaning with water or chemicals
- USDA approved



DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-5%	On request

Part number	ØM	Adjustable range E	A	B	ØD	SW	ØD1	ØD2	G	CH	H1	H2	H3	Static load (N)	Price each 1 to 5
PTK80-16-140/SS	M16	45	53	140	80	13	24	60	25	20	193	114	159	20000	95,45 €
PTK80-16-190/SS	M16	70	53	190	80	13	24	85	25	20	243	139	209	20000	114,59 €
PTK80-20-140/SS	M20	45	53	140	80	17	30	60	25	26	193	114	159	20000	100,23 €
PTK80-20-142/SS	M20	55	53	142	80	17	30	70	25	26	195	123	178	20000	103,55 €
PTK80-20-190/SS	M20	70	53	190	80	17	30	85	25	26	243	139	209	20000	115,62 €
PTK80-24-140/SS	M24	45	53	140	80	20	35	60	25	30	193	114	159	20000	108,97 €
PTK80-24-190/SS	M24	70	53	190	80	20	35	85	25	30	243	139	209	20000	123,53 €
PTK100-16-140/SS	M16	45	56	140	100	13	24	60	28	20	196	117	162	25000	100,02 €
PTK100-16-190/SS	M16	70	56	190	100	13	24	85	28	20	246	142	212	25000	119,17 €
PTK100-20-140/SS	M20	45	56	140	100	17	30	60	28	26	196	117	162	25000	104,82 €
PTK100-20-190/SS	M20	70	56	190	100	17	30	85	28	26	246	142	212	25000	120,18 €
PTK100-24-140/SS	M24	45	56	140	100	20	35	60	28	30	196	117	162	25000	113,54 €
PTK100-24-190/SS	M24	70	56	190	100	20	35	85	28	30	246	142	212	25000	128,12 €
PTK100-30-135/SS	M30	40	56	135	100	26	42	60	28	36	191	117	157	25000	124,77 €
PTK100-30-185/SS	M30	65	56	185	100	26	42	85	28	36	241	142	207	25000	136,40 €

Dimensions in mm

Stainless steel swivelling foot, bolt-down Sta

PTKFSS

Max load 25,000N

- **"Teknohygienic" swivelling foot**
- Materials:
  Base: stainless steel 304
  Stem: stainless steel 304
  Blind nut: stainless steel 304
- Sole: NBR rubber Shore hardness 90°

For the food industry

stainless steel



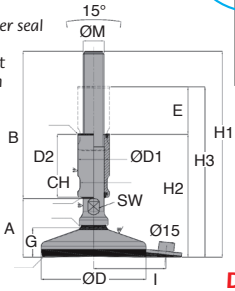
Avoids water retention

Advantages

- The 3-A standard designates products that are designed for the dairy, food and pharmaceutical industries where strict hygiene rules apply.
- Smooth finished foot with a wiper seal between the stem and the nut and around the swivel to prevent accumulation of dirt or retention of water
- Suitable for cleaning with water or chemicals
- USDA approved

Info.

- Do not forget to order the **PTKF-M12/SS** 3-A approved blind nut





Blind M12 nut

DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-5%	On request

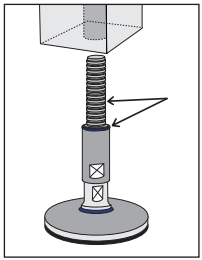
Part number	ØM	Adjustable range E	A	B	ØD	SW	ØD1	D2	CH	H2	H3	H1	I	Static load (N)	Price each 1 to 5
PTKF80-16-140/SS	M16	45	53	140	80	13	24	60	20	114	159	193	54	20000	115,89 €
PTKF80-16-190/SS	M16	70	53	190	80	13	24	85	20	139	209	243	54	20000	119,17 €
PTKF80-20-140/SS	M20	45	53	140	80	17	30	60	26	114	159	193	54	20000	104,82 €
PTKF80-20-142/SS	M20	55	53	142	80	17	30	70	26	123	178	195	54	20000	108,15 €
PTKF80-20-190/SS	M20	70	53	190	80	17	30	85	26	139	209	243	54	20000	120,18 €
PTKF80-24-140/SS	M24	45	53	140	80	20	35	60	30	114	159	193	54	20000	108,85 €
PTKF80-24-190/SS	M24	70	53	190	80	20	35	85	30	139	209	243	54	20000	128,12 €
PTKF100-16-140/SS	M16	45	56	140	100	13	24	60	20	117	162	196	69	25000	105,83 €
PTKF100-16-190/SS	M16	70	56	190	100	13	24	85	20	142	212	246	69	25000	124,99 €
PTKF100-20-140/SS	M20	45	56	140	100	17	30	60	26	117	162	196	69	25000	110,64 €
PTKF100-20-190/SS	M20	70	56	190	100	17	30	85	26	142	212	246	69	25000	126,02 €
PTKF100-24-140/SS	M24	45	56	140	100	20	35	60	30	117	162	196	69	25000	119,38 €
PTKF100-24-190/SS	M24	70	56	190	100	20	35	85	30	142	212	246	69	25000	133,93 €
PTKF100-30-135/SS	M30	40	56	135	100	26	42	60	36	117	157	191	69	25000	130,59 €
PTKF100-30-185/SS	M30	65	56	185	100	26	42	85	36	142	207	241	69	25000	142,24 €
Blind M12 nut															
PTKF-M12/SS	M12					17									14,93 €

Dimensions in mm

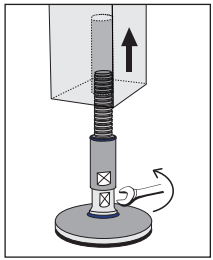
Stainless steel swivelling foot

Mounting instructions

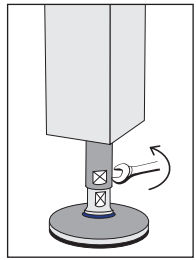
PTKSS



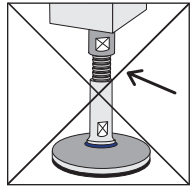
Grease the seal and thread with food-grade grease



Set the height of the foot by adjusting the screw (whilst not attached to the machine)

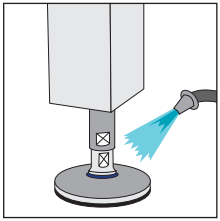


Adjust the sleeve in order to bring the upper seal into contact with the bottom of the machine

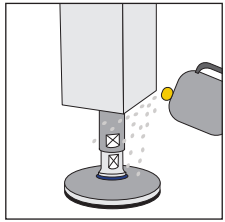


The thread must be completely covered by the sleeve

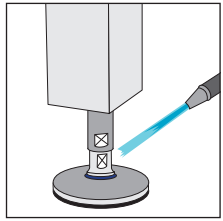
Advice on cleaning



Rinse with water (Max. temperature 40°C)



Apply an alkaline detergent (Max. temperature 90°C) and leave to act for 10 min



Rinse with water at 8-12 bar (max. 100°C) using a jet inclined at 45° at a minimum distance of 300 mm to avoid damage to the seals

Fixed anti-vibration foot

PAV

For loads up to 35,000N

- ***Adjustable anti-vibration foot***
- *Fine thread for levelling*
- *Materials:*
  Body: Chromed sheet steel
  Spindle: Chromed steel
  Base: Rubber NBR 80 shore

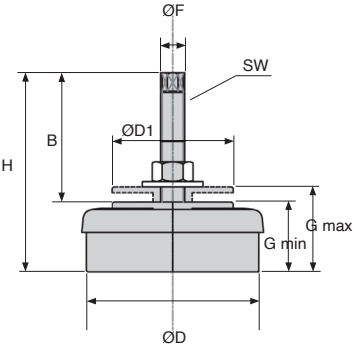


Applications

- *Machine tools, presses, injection machines, compressors.*

Info

- *Supplied with 1 nut and 1 washer*



IN STOCK*
Otherwise contact us

DISCOUNTS

Qty	1+	6+	10+	15+
Disc.	List	-5%	-10%	On request

Part number	ØD	ØF	B	ØD1	SW	G	H	Max load Dynamic (N)	Max load Static (N)	Price each 1 to 5
PAV80-M12C	80	M12x1,25	87	60	8	40-50	136	2500	5000	43,90 €
PAV120-M16C	120	M16x1,5	93	80	9	45-58	150	4000	10000	74,03 €
PAV160-M20C	160	M20x1,5	125	100	12	53-65	190	9000	20000	122,40 €
PAV200-M20C	200	M20x1,5	125	130	12	69-82	207	15000	35000	168,22 €

**Depending on availability - Dimensions in mm*

New

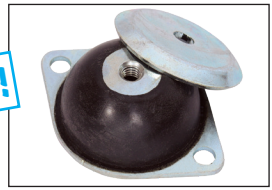
Anti-vibration machine mount

Format Oval base plate

PMB

- **With 2 fixing holes**
- Loads shown refer to permissible static vertical dead load
- Materials :
  Natural rubber
  Steel structure

NEW !

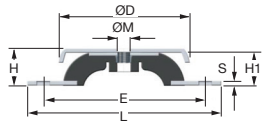


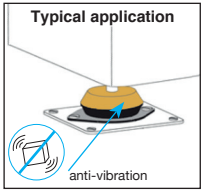
Applications

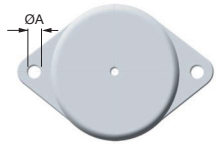
- These elements are ideal for low frequencies because the rubbers are available with different hardnesses so that a wide load range can be covered

Info

- Supplied with support disc for better load distribution







DISCOUNTS

Qty	1+	6+	10+	20+
Disc.	List	-5%	-10%	On request

Part number	ØD	H1	H	E	L	ØM	ØA	S	Hardness shore	Load max (daN)	Deflexion	Price each 1 to 5
PMB40-M6-35	40	18	20	52	64	M6	6,2	2	35	2,5	$2,5^{\pm 0,5}$	9,93 €
PMB40-M6-45	40	18	20	52	64	M6	6,2	2	45	5	$2,5^{\pm 0,5}$	9,93 €
PMB40-M6-60	40	18	20	52	64	M6	6,2	2	60	10	$2,5^{\pm 0,5}$	9,93 €
PMB60-M6-45	60	22	24	76	90	M6	6,2	2	45	15	$3,5^{\pm 0,5}$	17,21 €
PMB60-M6-60	60	22	24	76	90	M6	6,2	2	60	25	$3,5^{\pm 0,5}$	17,21 €
PMB60-M6-75	60	22	24	76	90	M6	6,2	2	75	50	$3,5^{\pm 0,5}$	17,21 €
PMB80-M8-45	80	25	27	100	120	M8	8,2	2	45	40	$4,5^{\pm 0,5}$	23,42 €
PMB80-M8-60	80	25	27	100	120	M8	8,2	2	60	80	$4,5^{\pm 0,5}$	23,42 €
PMB80-M8-75	80	25	27	100	120	M8	8,2	2	75	120	$4,5^{\pm 0,5}$	23,42 €
PMB100-M10-45	100	25	28	124	148	M10	10,2	2,5	45	75	$4,5^{\pm 1}$	30,67 €
PMB100-M10-60	100	25	28	124	148	M10	10,2	2,5	60	160	$4,5^{\pm 1}$	30,67 €
PMB100-M10-75	100	25	28	124	148	M10	10,2	2,5	75	220	$4,5^{\pm 1}$	30,67 €
PMB150-M14-45	150	35	40	182	214	M14	11,8	4	45	130	$7^{\pm 1,5}$	67,30 €
PMB150-M14-60	150	35	40	182	214	M14	11,8	4	60	300	$7^{\pm 1,5}$	67,30 €
PMB150-M14-75	150	35	40	182	214	M14	11,8	4	75	400	$7^{\pm 1,5}$	67,30 €

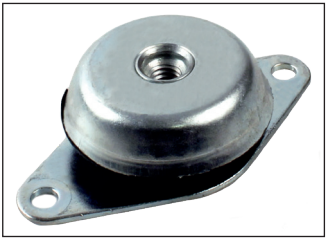
Dimensions in mm

Anti-vibration rubber machine mount

23000N

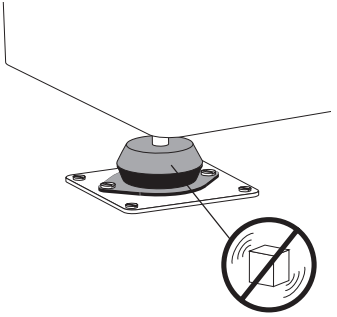
PMC — Oval base plate

- **With 2 fixing holes**
- Maximum loads are given for a permanent, static vertical load
- Materials:
  Centre: Natural rubber (60 Shore A)
  Support: steel

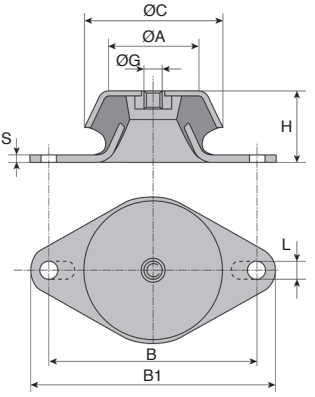


Uses

- Anti vibration mounting for machines and all types of motors
- Active effective protection for personnel and surroundings from harmful effects of vibrations
- Passive protection of sensitive machines, measuring instruments, equipment and many different types of machines against shocks and vibration.



Anti-vibration



DISCOUNTS

Qty	1+	6+	10+	20+
Disc.	List	-5%	-10%	On request

Part number	ØC	H	ØA	ØG	S	L	B	B1	Max. load (N)	Stock*	Price each 1 to 5
PMC48-M8	48	23	38,0	M8	1,5	6,2	68	81	1900	✔	14,49 €
PMC62-M10	62	30	50,0	M10	3,0	8,2	85	106	3900	✔	20,57 €
PMC92-M12	92	45	73,5	M12	3,0	10,2	110	128	5800	✔	28,01 €
PMC120-M16	120	50	90,0	M16	5,0	16,2	160	190	11500	-	60,61 €
PMC160-M16	160	60	120,0	M16	3,0	16,2	200	235	23000	-	96,60 €

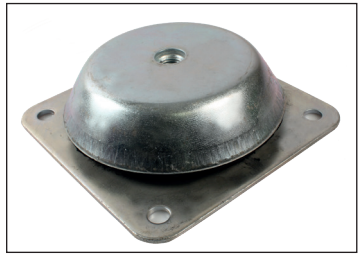
*Depending on availability - Dimensions in mm

Anti-vibration rubber machine mount

Square base plate

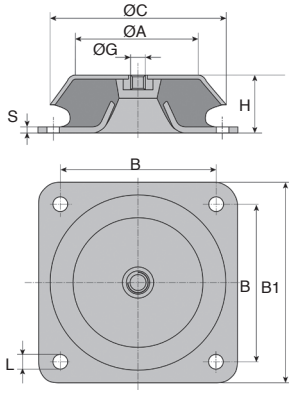
PMC

- **With 4 fixing holes**
- Maximum loads are given for a permanent, static vertical load
- Materials:
  Centre: Natural rubber (60 Shore A)
  Support: steel



Uses

- Anti vibration mounting for machines and all types of motors
- Active effective protection for personnel and surroundings from harmful effects of vibrations
- Passive protection of sensitive machines, measuring instruments, equipment and many different types of machines against shocks and vibration.



DISCOUNTS

Qty	1+	6+	10+	20+
Disc.	List	-5%	-10%	On request

Part number	ØC	H	ØA	ØG	S	L	B	B1	Max. load (N)	Stock*	Price each 1 to 5
PMC150-M16	150	51,5	110	M16	4,0	12,5	132	168	7800	✔	57,24 €
PMC177-M20	177	63,0	125	M20	4,5	13,0	150	184	16500	-	83,55 €

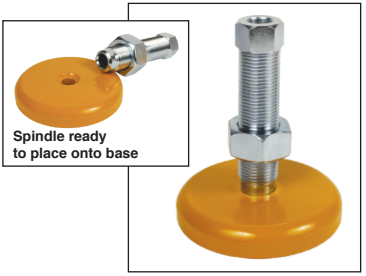
**Depending on availability - Dimensions in mm*

Solid foot for heavy loads

PML

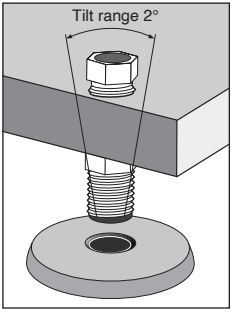
Max load 90,000 N

- ***Levelling foot for heavy loads***
- *Solid foot*
- *Hollow spindle*
- *Fine thread pitch gives accurate levelling*
- *Tilts ±2°*
- *Materials:*
  Base: steel with yellow coated finish
  Spindle: Chromed steel

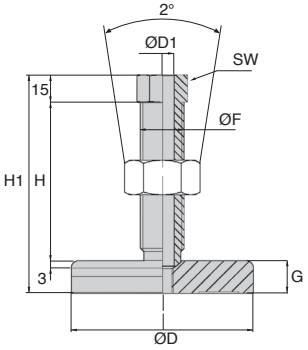


Applications

- *Machine tools, assembly machines, automated lines*



Typical application



DISCOUNTS

Qty	1+	6+	10+	15+
Disc.	List	-5%	-10%	On request

Part number	ØD	ØD1	SW	ØF	G	H	H1	Static load (N)	Price each 1 to 5
PML100-24C-87	100	13	24	M24x2	18	87	120	60000	30,47 €
PML100-24C-141	100	13	24	M24x2	18	141	174	60000	33,67 €
PML120-35C-100	120	22	41	M35x2	25	100	140	90000	84,57 €
PML120-35C-177	120	22	41	M35x2	25	177	217	90000	89,15 €
PML120-36C-100	120	22	41	M36x2	25	100	140	90000	84,57 €
PML150-35C-100	150	22	41	M35x2	25	100	140	90000	93,95 €
PML150-35C-177	150	22	41	M35x2	25	177	217	90000	99,17 €
PML150-36C-100	150	22	41	M36x2	25	100	140	90000	93,95 €

Dimensions in mm

Support spindle for heavy loads

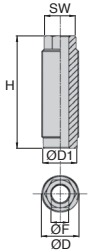
Max load 90,000 N

TCL

- ***Threaded levelling spindle, suitable for heavy loads***
- *Hollow spindle*
- *Fine pitch thread allows accurate levelling*
- *Material:*
  Chromed steel

Applications

- *Machine tools, assembly machines, automated lines*





DISCOUNTS

Qty	1+	6+	10+	15+
Disc.	List	-5%	-10%	On request

Part number	ØD	ØD1	SW	ØF	H	Static load (N)	Price each 1 to 5
TCL-M30C-110	M30x2	27	24	17	110	70000	24,35 €
TCL-M36C-110	M36x2	33	27	17	110	90000	26,65 €

Dimensions in mm

Adjusting nut

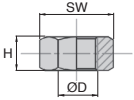
Fine thread

ECL

- ***Adjusting nut***
- *Fine thread*
- *Fine pitch thread allows accurate levelling*
- *Material:*
  Chromed steel

Applications

- *Machine tools, assembly machines, automated lines*





DISCOUNTS

Qty	1+	6+	10+	15+
Disc.	List	-5%	-10%	On request

Part number	ØD	SW	H	Price each 1 to 5
ECL-M24C	M24x2	36	18	2,76 €
ECL-M27C	M27x2	41	12	5,23 €
ECL-M30C	M30x2	36	11	7,15 €
ECL-M35C	M35x2	55	15	11,47 €
ECL-M36C	M36x2	55	15	11,47 €
ECL-M36C3	M36x3	55	15	11,47 €
ECL-M42C	M42x2	65	20	20,80 €

Dimensions in mm

STEEL CABLE TRANSPARENT PVC COVERED



p.418

FITTING CABLE TOOLS



p.422

U-SHAPED CLAMP

stainless steel



p.429

QUICK FITTING



p.430

PAD EYE ON OVAL MOUNTING PLATE

stainless steel



p.438

RIGGING SCREW



p.442

WIRE ROPE FITTINGS

P. 418-459

MANUAL RIGGING SCREW



p.446

WARNING CHAIN



p.449

QUICK LINK



p.454

EYE BOLT



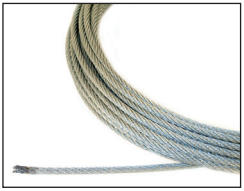
p.459

Galvanised steel cable

Ste

CAB — 7x7 or 7x19 Metal core

- **Steel cable sold by the reel**
- Braiding: 1+6 strands of 7 wires up to Ø5mm
- Braiding: 1+6 stands of 19 wires for Ø6mm+





1+6
Strands of 7 wires



1+6
Stands of 19 wires

DISCOUNTS

Qty	1+	3+	5+	10+
Disc.	List	-10%	-15%	On request

Part number	Ø cable	Construction	Breaking strenght (kg)	Length (m)	Weight per reel (kg)	Stock*	Price each 1 to 2
CAB1.5-100/B	1,5	7x7	145	100	0,98	✔	45,32 €
CAB2-15/B	2,0	7x7	258	15	0,28	✔	11,08 €
CAB2-25/B	2,0	7x7	258	25	0,42	✔	18,18 €
CAB2-50/B	2,0	7x7	258	50	0,85	✔	28,32 €
CAB2-100/B	2,0	7x7	258	100	1,66	-	46,75 €
CAB2.5-15/B	2,5	7x7	410	15	0,38	-	11,56 €
CAB2.5-50/B	2,5	7x7	410	50	1,35	-	31,09 €
CAB2.5-100/B	2,5	7x7	410	100	2,52	-	55,42 €
CAB2.5-250/B	2,5	7x7	410	250	6,32	-	128,59 €
CAB3-15/B	3,0	7x7	581	15	0,57	✔	13,90 €
CAB3-25/B	3,0	7x7	581	25	0,93	✔	22,77 €
CAB3-50/B	3,0	7x7	581	50	1,86	-	37,50 €
CAB3-100/B	3,0	7x7	581	100	3,85	✔	67,69 €
CAB4-15/B	4,0	7x7	1030	15	0,99	✔	20,63 €
CAB4-25/B	4,0	7x7	1030	25	1,80	✔	31,43 €
CAB4-50/B	4,0	7x7	1030	50	3,32	-	58,81 €
CAB4-100/B	4,0	7x7	1030	100	6,53	-	104,00 €
CAB5-15/B	5,0	7x7	1620	15	1,53	✔	32,05 €
CAB5-25/B	5,0	7x7	1620	25	2,54	-	46,41 €
CAB5-50/B	5,0	7x7	1620	50	5,43	--	89,16 €
CAB5-100/B	5,0	7x7	1620	100	10,40	-	155,34 €
CAB6-15/B	6,0	7x19	2140	15	2,26	✔	46,52 €
CAB6-25/B	6,0	7x19	2140	25	3,70	✔	69,67 €
CAB6-50/B	6,0	7x19	2140	50	7,48	-	137,94 €
CAB6-100/B	6,0	7x19	2140	100	14,16	-	237,47 €
CAB7-15/B	7,0	7x19	3450	15	2,98	-	57,89 €
CAB7-25/B	7,0	7x19	3450	25	5,00	-	96,39 €
CAB7-50/B	7,0	7x19	3450	50	10,00	-	179,20 €
CAB8-15/B	8,0	7x19	3810	15	3,88	✔	76,60 €
CAB8-25/B	8,0	7x19	3810	25	6,76	-	123,34 €
CAB8-50/B	8,0	7x19	3810	50	12,96	-	234,12 €
CAB9-50/B	9,0	7x19	4830	50	16,62	-	280,84 €
CAB10-25/B	10,0	7x19	5960	25	10,30	-	193,64 €

*Depending on availability - Dimensions in mm

PVC covered galvanised steel cable

7x7 or 7x19 metal core

CAB/PVC

- ***Steel cable sold in rolls with anti-UV transparent PVC coating***
- *Braiding*
  > Ø5mm : 1 + 6 strands of 7 wires
  Ø6mm > : 1 + 6 strands of 19 wires

Applications

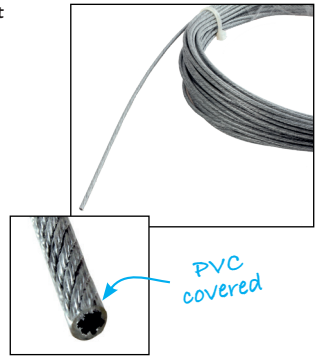
- *Plastic reel*
- *Outdoor applications*

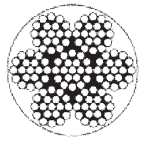
Option

- *100m reels*

Info

- *Remove the PVC protection on the area concerned if cable is being crimped*





7x19



7x7

DISCOUNTS

Qty	1+	3+	10+
Disc.	Net	-10%	On request

Part number	Cable Ø	ØExt	Type of braiding	Breaking strength (kg)	Length (metre)	Weight of reel (kg)	Price each 1 to 2
CAB2-25/PVC	2	3	7x7	280	25	0,57	26,73 €
CAB3-25/PVC	3	5	7x7	630	25	1,39	38,08 €
CAB4-25/PVC	4	6	7x7	1120	25	2,25	46,18 €
CAB6-25/PVC	6	8	7x19	2351	25	4,42	98,32 €

All dimensions in mm

Stainless steel cable

CABss — 7x7 Metal core

- ***Stainless steel (316) cable sold by the reel***
- *Braiding: 1+6 strands of 7 wires up to Ø6mm*





1+6
strands of 7 wires

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

Part number	Ø cable	Construction	Breaking strength (kg)	Length (m)	Weight per reel (kg)	Stock*	Price each
CAB2-15/SS	2,0	7x7	230	15	0,26	✔	32,47 €
CAB2-25/SS	2,0	7x7	230	25	0,44	✔	46,78 €
CAB2-100/SS	2,0	7x7	230	100	1,68	-	157,03 €
CAB3-15/SS	3,0	7x7	517	15	0,58	✔	34,82 €
CAB3-25/SS	3,0	7x7	517	25	0,96	✔	51,03 €
CAB3-100/SS	3,0	7x7	517	100	3,67	-	188,77 €
CAB4-15/SS	4,0	7x7	916	15	1,04	✔	55,39 €
CAB4-25/SS	4,0	7x7	916	25	1,72	-	88,64 €
CAB4-100/SS	4,0	7x7	916	100	6,54	-	329,24 €
CAB5-15/SS	5,0	7x7	1445	15	1,62	✔	79,11 €
CAB5-25/SS	5,0	7x7	1445	25	3,00	-	125,45 €
CAB5-100/SS	5,0	7x7	1445	100	10,00	-	447,04 €
CAB6-15/SS	6,0	7x7	2070	15	2,34	✔	109,75 €
CAB6-25/SS	6,0	7x7	2070	25	3,75	-	181,09 €
CAB6-100/SS	6,0	7x7	2070	100	14,45	-	676,63 €

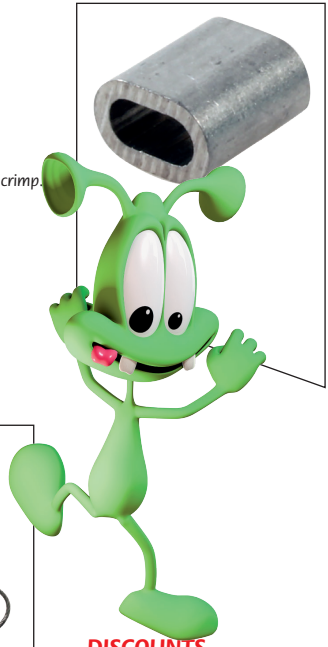
**Depending on availability - Dimensions in mm*

Swaging sleeve for fitting cable

To crimp a wire rope

CABMA

- **Sleeve for fitting cable with metal core**
- Complies with standard 13411-3 from CAB2-MA/B
- Temperature range: max 100 °C
- Material:
  Crude Aluminium



Application

- For making retaining cables.
- For use with sheathed cable, remove the sheath along the length of the crimp to obtain a proper crimp.
  Important:
- Not suitable for lifting
- Not suitable for stainless steel cable

Info

- Cutting and crimping Tool CAB-TOOL

Accessories

- Pliers **CAB**TOOL **(tome 1 p.422)**



Application example

DISCOUNTS

Qty	1+	3+	5+
Disc.	Price	-10%	On request

Part number	For metal cable Diameter	For metal cable	Qty per lot	Price each 1 to 2
CAB1.5-MA/B	1.5	CAB1.5	100	23,02 €
CAB2-MA/B	2	CAB2	100	29,56 €
CAB2.5-MA/B	2.5	CAB2.5	100	42,66 €
CAB3-MA/B	3	CAB3	100	34,85 €
CAB4-MA/B	4	CAB4	100	50,32 €
CAB5-MA/B	5	CAB5	100	70,45 €

Dimensions in mm

Fitting cable tools

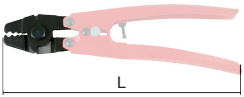
CABTOOL — Cutting and crimping tools

- ***Swaging and cable cutting pliers***
- *Material:*
  Steel, red paint

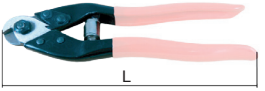
Application

- *For manual crimping of aluminium sleeves* **CAB-MA** *on fitting cables*
- *For cutting* **CAB** *fitting cables to length.*

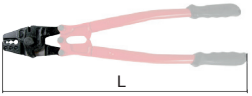




CAB-TOOL-M1



CAB-TOOL-C1



CAB-TOOL-M2
CAB-TOOL-M3



CAB-TOOL-C2

DISCOUNTS

Qty	1+	2+	3+
Disc.	Price	-10%	On request

Part number	For sleeve	For metal cable diameter	Length L	Weight (kg)	Price each
Hand swage tool					
CAB-TOOL-M1	CAB1.5-MA	1,5	230	0,350	57,49 €
	CAB2-MA	2			
CAB-TOOL-M2	CAB2-MA	2	440	1,030	183,21 €
	CAB2,5-MA	2,5			
	CAB3-MA	3			
CAB-TOOL-M3	CAB2-MA	2	660	2,610	235,33 €
	CAB2,5-MA	2,5			
	CAB3-MA	3			
	CAB4-MA	4			
	CAB5-MA	5			
Cable-cutting tool					
CAB-TOOL-C1		1 to 4	200	0,273	40,60 €
CAB-TOOL-C2		1 to 6	450	1,80	68,40 €

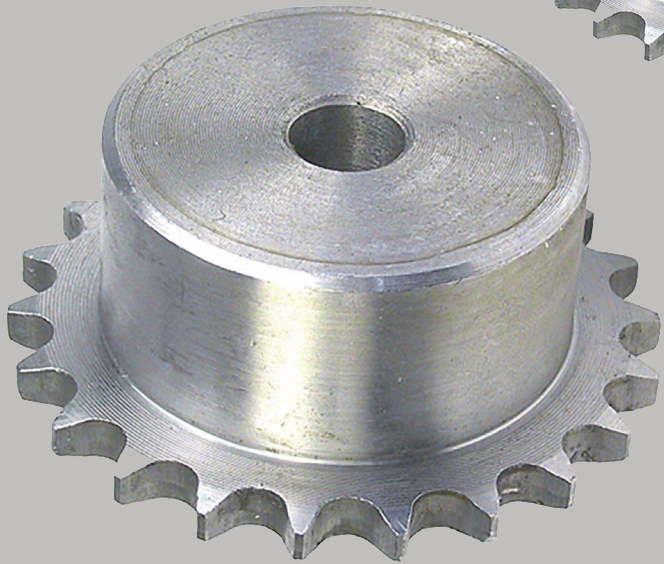
Dimensions in mm

Request a quote for

MADE TO MEASURE CHAIN SPROCKETS

- Steel, stainless steel or delrin
- Pitch from 4 to 19.05mm
- Choice of bores





Standard wire thimble

CCL

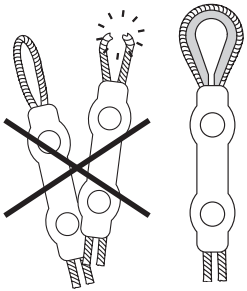
Cable accessory

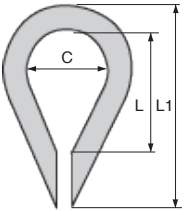
- **Fitting component**
- Wire thimble for use with CAB steel cable
- Materiel:
  Steel Fe360B, zinc plated

Info.

- **Sold by the packet**









DISCOUNTS

Qty	1+	3+	6+	9+	12+	15+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	For cable Ø	C	L	D	L1	Weight (g)	Stock*	Price each 1 to 2
CCL-3/B	3	10	15	5	24	2,30	✔	5,40 €
CCL-4/B	4	12	17,5	6	28	3,00	✔	6,37 €
CCL-5/B	5	14	23	7	35	5,00	✔	6,37 €
CCL-6/B	6	17	26	8,5	40	8,00	✔	7,32 €
CCL-8/B	8	19	32	11,5	49	15,00	✔	5,19 €
CCL-10/B	10	22	34	13,5	55	23,00	-	7,66 €

*Depending on availability - Dimensions in mm

Stainless steel wire thimble

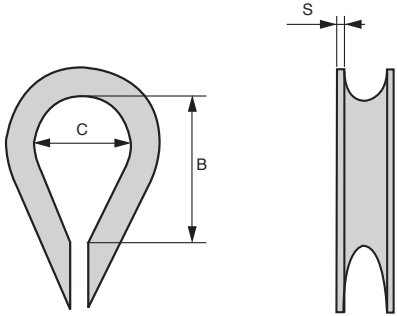
Stainless steel cable accessory — CCLss

- ***Fitting components***
- *Wire thimble for use with CAB/SS stainless steel cable*
- *Materiel:*
  Stainless steel AISI 316

Info.

- ***Sold by the packet***





DISCOUNTS

Qty	1+	3+	6+	9+	12+	15+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	For cable Ø	C	B	S	Weight (g)	Stock*	Price each 1 to 2
CCL-2/SS/B	2	9	15	1	2,00	✔	5,66 €
CCL-3/SS/B	3	10	17	1	2,40	✔	7,19 €
CCL-4/SS/B	4	11	18	1	3,80	✔	8,85 €
CCL-5/SS/B	5	12	22	1	4,80	✔	13,81 €
CCL-6/SS/B	6	13	24	1	5,00	✔	14,76 €

**Depending on availability - Dimensions in mm*

Flat cable clamp

Stock Ste ★★

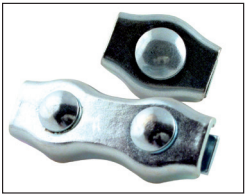
SCA

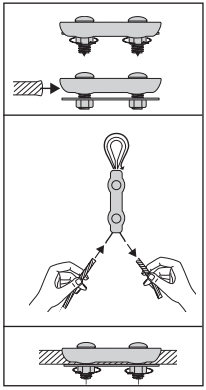
Suitable for cable Ø2-Ø6mm

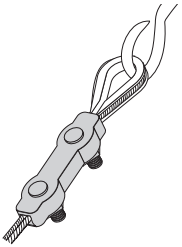
- **Fitting components**
- Flat cable clamp, with single or dual
- Material:
  Clamp: Zinc plated steel Fe360B

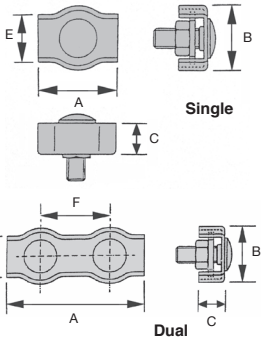
Info.

- **Sold by the packet**









DISCOUNTS

Qty	1+	3+	6+	9+	12+	15+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	Ø Cable	A	B	C	E	F	Weight per 100 pieces (kg)	Qty per packet	Stock*	Price each 1 to 2
Single										
SCA1-02/B	2	18	12	5	8	-	0,50	10	✔	4,84 €
SCA1-03/B	3	20	14	7	10	-	0,75	10	✔	6,74 €
SCA1-04/B	4	22	17	8	12	-	1,15	10	✔	7,66 €
SCA1-05/B	5	26	21	9	14	-	2,00	10	✔	9,46 €
SCA1-06/B	6	30	25	10	17	-	3,00	10	✔	10,26 €
Dual										
SCA2-02/B	2	37	13	5	8	20	1,10	10	✔	8,49 €
SCA2-03/B	3	40	15	7	10	21	1,50	10	✔	9,46 €
SCA2-04/B	4	43	17	7	13	22	2,50	10	✔	10,75 €
SCA2-05/B	5	52	22	9	15	27	4,00	10	✔	17,01 €
SCA2-06/B	6	60	26	9	18	33	6,00	10	✔	19,49 €

*Depending on availability - Dimensions in mm

Sta ★★ Stainless steel flat cable clamp

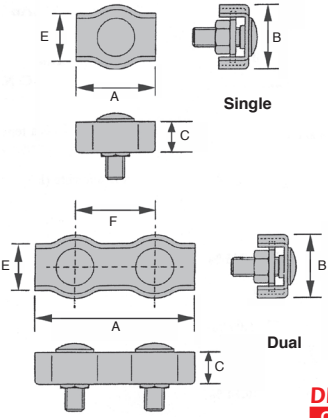
Suitable for cable Ø2-Ø6mm SCAss

- **Fitting components**
- Flat cable clamp, single or dual
- Material:
  Clamp: Stainless steel 316 plated steel Fe360B



Info.

- **Sold by the packet**



DISCOUNTS

Qty	1+	3+	6+	9+	12+	15+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	Ø Cable	A	B	C	E	F	Weight per 100 pieces (kg)	Qty per packet	Stock*	Price each 1 to 2
Single										
SCA1-02/SS/B	2	15	11	5,0	7	-	0,438	4	✔	5,57 €
SCA1-03/SS/B	3	17	14	6,0	9	-	0,520	4	✔	7,17 €
SCA1-04/SS/B	4	20	17	7,0	11	-	1,090	4	✔	8,78 €
SCA1-05/SS/B	5	25	19	8,5	13	-	1,442	4	-	11,86 €
SCA1-06/SS/B	6	30	24	10,0	16	-	2,630	4	✔	19,33 €
Dual										
SCA2-02/SS/B	2	30	11	5,0	7	15	0,926	4	✔	9,16 €
SCA2-03/SS/B	3	34	14	6,0	9	17	1,230	4	✔	12,19 €
SCA2-04/SS/B	4	40	17	7,0	11	19	2,290	4	✔	16,70 €
SCA2-05/SS/B	5	50	19	8,5	13	25	3,090	4	✔	21,12 €
SCA2-06/SS/B	6	60	24	10,0	16	30	5,440	4	✔	29,71 €

*Depending on availability - Dimensions in mm

U-shaped cable clamp

Stock Ste ★★★

SCE — Suitable for cables Ø5-Ø16mm

- **Hot stamped cable clamp**
- Fitting component
- Material:
  U bolt: zinc plated steel Fe360B
  Plate: zinc plated steel Fe430B

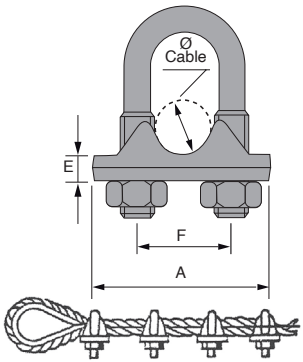


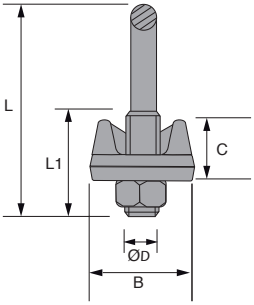
Assembly

- For cables Ø5 to Ø12, use 4 cable clamps
- For cables Ø12 to Ø16, use 5 cable clamps

Info.

- **Not sold individually, please contact us for details**





The attached end of the cable should be placed next to the plate, the free end next to the curve of the U

DISCOUNTS

Qty	1+	30+	60+	90+	120+	150+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	Int Ø U clamp	Ø Cable	A	B	C	ØD	E	F	L	L1	Weight/ 100 pieces (kg)	Stock*	Price each 1 to 29
SCE1-05	5	5	25	18	9	M5	5	10	27	16	2,40	✔	0,93 €
SCE1-06	6	6	30	19	10	M6	6	14	33	19	3,90	✔	0,98 €
SCE1-08	8	8	33	20	11	M6	7	16	34	19	4,40	✔	1,19 €
SCE1-10	10	10	38	22	12	M8	7	20	44	22	7,50	✔	1,65 €
SCE1-12	12	12	43	25	14	M10	7	23	56	30	12,70	-	2,15 €
SCE1-14	14	14	46	28	16	M10	9	27	56	30	15,50	-	2,49 €
SCE1-16	16	16	53	31	18	M10	8	29	65	30	19,50	-	3,17 €

**Depending on availability - Dimensions in mm*

Sta ★★★ Stainless steel U-shaped clamp

Suitable for cables Ø5-Ø16mm

SCEss

- ***Cable clamp***
- *Fitting component*
- *Material:*
  U bolt + plate: stainless steel

stainless steel

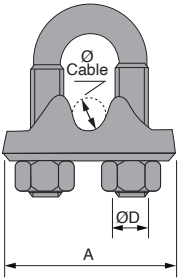


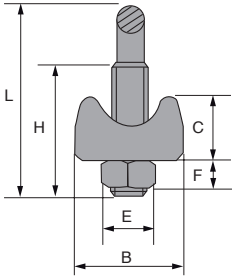
Assembly

- *For cables Ø5 to Ø12, use 4 cable clamps*
- *For cables Ø12 to Ø16, use 5 cable clamps*

Info.

- ***Not sold individually, please contact us for details***







The attached end of the cable should be placed next to the plate, the free end next to the curve of the U

DISCOUNTS

Qty	1+	30+	60+	90+	120+	150+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	Ø Cable	A	B	C	ØD	E	F	L	L1	Weight per 100 pieces (kg)	Stock*	Price each 1 to 29
SCE1-05/SS	5	25	18	9	M5	8	5	15	26	2,40	✔	2,85 €
SCE1-06/SS	6	30	19	10	M6	10	5	20	33	3,80	✔	3,84 €
SCE1-08/SS	8	33	20	10	M6	10	5	23	35	4,50	-	4,02 €
SCE1-10/SS	10	38	22	12	M8	13	6	24	43	7,50	-	6,27 €
SCE1-12/SS	12	45	25	16	M10	17	8	30	54	13,08	-	10,79 €
SCE1-14/SS	14	46	27	17	M10	17	8	31	56	16,00	-	14,07 €
SCE1-16/SS	16	52	31	17	M9	17	9	31	65	20,00	-	15,98 €

**Depending on availability - Dimensions in mm*

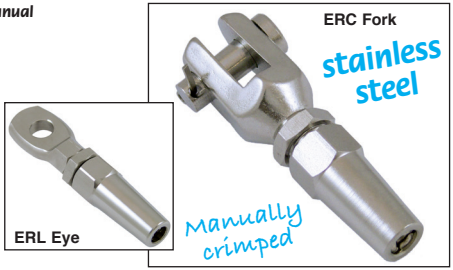
ERCss
ERLss

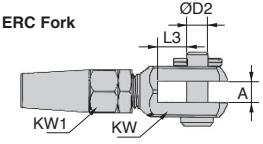
Fork and eye versions

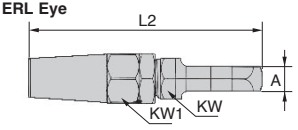
- ***Cable terminals for wires, manual crimping***
- *Material: Stainless steel 316*

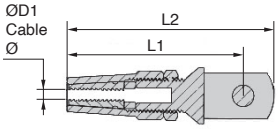
Advantage

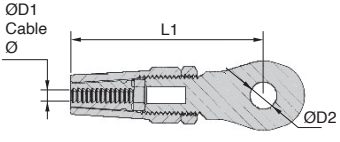
- *Rapid manual assembly*











DISCOUNTS

Qty	1+	4+	10+	15+
Disc.	List	-10%	-20%	On request

Part number	ØD1	ØD2	A	L1	L2	L3	KW	KW1	Weight (g)	Stock*	Price each 1 to 3
Fork											
ERC3-6/SS	3	6	6,25	49,0	57,0	8,0	12	14	40	✔	37,70 €
ERC4-8/SS	4	8	7,90	60,5	71,4	8,3	14	19	80	✔	46,30 €
ERC5-10/SS	5	10	9,70	69,0	79,0	10,0	16	22	120	-	54,71 €
ERC6-12/SS	6	12	11,00	81,0	93,0	12,0	19	27	210	-	67,69 €
ERC8-14/SS	8	14	13,00	106,0	120,0	15,0	24	30	376	-	90,76 €
Eye											
ERL3-6/SS	3	6	6	48	57	-	10	12	34	✔	39,55 €
ERL4-8/SS	4	8	7	56	69	-	14	14	62	-	45,13 €
ERL5-10/SS	5	10	8	66	82	-	14	16	88	-	53,27 €
ERL6-13/SS	6	13	9	83	100	-	17	19	154	-	65,03 €
ERL8-14/SS	8	14	10	102	123	-	19	24	278	-	85,70 €

**Depending on availability - Dimensions in mm*

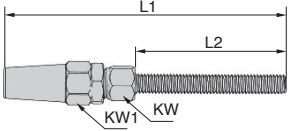
Cable terminal with threaded end ERFss

- ***Cable terminals for wires, manual crimping***
- *Material : Stainless steel 316*

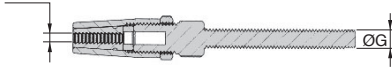


Advantage

- *Easy manual assembly*



Cable ØD1



DISCOUNTS

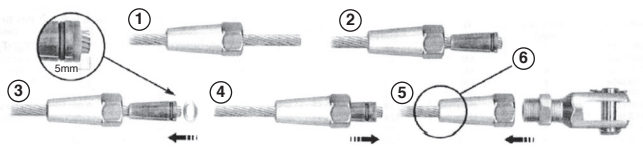
Qty	1+	6+	20+	50+
Disc.	List	-10%	-20%	On request

Part number	ØD1	ØG	L1	L2	KW	KW1	Weight (g)	Stock*	Price each 1 to 5
ERF3-5-41/SS	3	M5	82	41	10	12	32	✔	42,72 €
ERF3-6-47/SS	3	M6	88	47	10	12	36	✔	42,98 €
ERF4-6-47/SS	4	M6	96	47	12	14	54	✔	47,93 €
ERF4-8-56/SS	4	M8	106	56	12	14	62	-	47,78 €
ERF5-8-56/SS	5	M8	112	56	14	16	84	-	50,59 €
ERF5-10-62/SS	5	M10	118	62	13	16	96	-	55,18 €
ERF6-10-62/SS	6	M10	124	62	16	19	136	-	66,07 €
ERF6-12-79/SS	6	M12	144	79	16	19	164	-	72,64 €
ERF8-14-88/SS	8	M14	168	88	19	24	298	-	96,00 €
ERF8-16-99/SS	8	M16	180	99	19	24	338	-	101,15 €

**Depending on availability - Dimensions in mm*

Mounting arrangements





Shackle with eye bolt

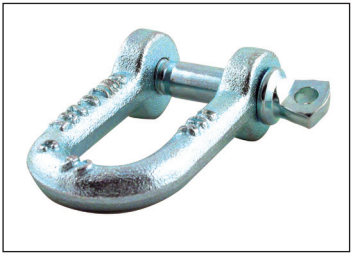
MDR

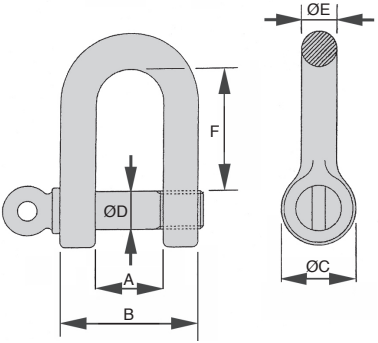
Pin diameters 5-20mm

- **Lifting shackle**
- Marked with pin diameter, SWL and CE mark
- Material:
  Shackle: Steel Fe430B zinc treated

Info.

- SWL: SAFE WORKING LOAD.
  The Safe Working Load is calculated by dividing the Breaking Strength by a factor of safety of 5.
- **Not sold individually, please contact us for details.**





DISCOUNTS

Qty	1+	5+	10+	20+	30+	50+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	Pin ØD	A	B	ØC	ØE	F	SWL (kg)	Weight (kg)	Stock*	Price each 1 to 4
MDR1-05	5	8	18	13	6	23	100	0,020	✔	1,79 €
MDR1-06	6	12	25	14	6	29	160	0,040	✔	2,14 €
MDR1-08	8	15	32	18	8	37	250	0,070	✔	3,07 €
MDR1-10	10	18	38	22	10	41	400	0,140	✔	3,87 €
MDR1-12	12	26	50	27	12	56	630	0,260	✔	6,11 €
MDR1-14	14	27	56	29	14	57	800	0,370	✔	7,49 €
MDR1-16	16	31	64	35	17	64	1000	0,560	✔	10,05 €
MDR1-18	18	32	70	36	19	65	1300	0,710	-	13,90 €
MDR1-20	20	38	78	40	20	69	1600	0,940	✔	17,52 €

*Depending on availability - Dimensions in mm

Stainless steel shackle with eye bolt

Pin diameters 5-20mm

MDRss

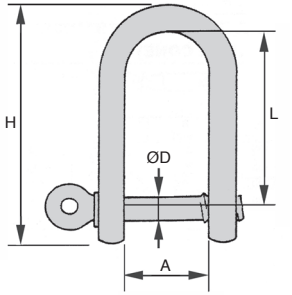
- ***Lifting shackle***
- *Material: Stainless steel 316*

Info.

- SWL: SAFE WORKING LOAD.
  The Safe Working Load is calculated by dividing the Breaking Strength by a factor of safety of 5.



stainless steel



DISCOUNTS

Qty	1+	5+	10+	20+	30+
Disc.	List	-5%	-10%	-15%	On request

Part number	Pin ØD	A	L	H	SWL (kg)	Weight (kg)	Stock*	Price each 1 to 4
MDR1-05/SS	5	9,5	23,0	33	190	0,015	✔	3,49 €
MDR1-06/SS	6	12,0	24,0	37	360	0,030	✔	3,66 €
MDR1-08/SS	8	16,0	35,0	50	540	0,060	✔	4,36 €
MDR1-10/SS	10	19,3	45,6	65	720	0,125	✔	6,27 €
MDR1-12/SS	12	27,0	48,0	72	1080	0,200	✔	11,21 €
MDR1-14/SS	14	28,0	57,0	83	1260	0,310	-	16,64 €
MDR1-16/SS	16	32,8	59,0	89	1680	0,510	✔	26,69 €
MDR1-20/SS	19	38,0	88,0	124	2400	0,900	-	52,49 €

**Depending on availability - Dimensions in mm*

Bow shackle with eye bolt

MLY

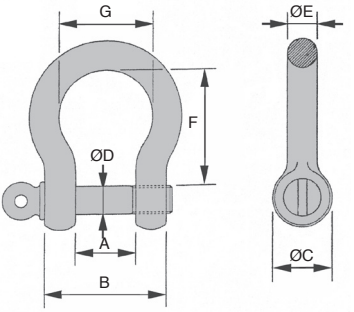
Pin diameters 5-20mm

- **Lifting shackle**
- Marked with pin diameter, SWL and CE mark.
- Material:
  Shackle : Steel Fe430B zinc treated

Info.

- SWL: Safe working load. The Safe Working Load is calculated by dividing the Breaking Strength by a factor of safety of 5.
- **Not sold individually, please contact us for details**.





DISCOUNTS

Qty	1+	5+	10+	20+	30+	50+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	Pin ØD	A	B	ØC	ØE	F	G	SWL (kg)	Weight (kg)	Stock*	Price each 1 to 4
MLY1-05	5	8	18	10	5	19	15	100	0,020	-	2,80 €
MLY1-06	6	12	24	12	6	24	18	160	0,030	✔	2,92 €
MLY1-08	8	15	31	16	8	32	24	250	0,070	✔	3,17 €
MLY1-10	10	18	38	20	10	38	30	400	0,130	✔	4,29 €
MLY1-12	12	22	48	24	12	50	36	630	0,230	✔	7,83 €
MLY1-14	14	24	53	28	15	56	42	800	0,370	✔	9,79 €
MLY1-16	16	27	61	32	17	64	48	1000	0,560	-	12,15 €
MLY1-18	18	36	72	36	18	72	54	1300	0,780	-	17,69 €
MLY1-20	20	37	78	41	20	79	60	1600	1,090	✔	19,73 €

*Depending on availability - Dimensions in mm

Stainless steel bow shackle with eye bolt

Pin diameters 5-20mm

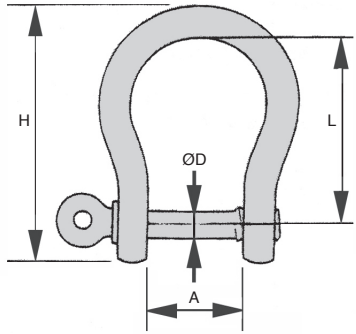
MLYss

- ***Lifting shackle***
- *Material: Stainless steel 316*



Info.

- *SWL: safe working load. The Safe Working Load is calculated by dividing the Breaking Strength by a factor of safety of 5.*



DISCOUNTS

Qty	1+	5+	10+	20+	30+
Disc.	List	-5%	-10%	-15%	On request

Part number	Pin ØD	A	L	H	SWL (kg)	Weight (kg)	Stock*	Price each 1 to 4
MLY1-05/SS	5	10,0	20,0	30	190	0,015	✔	3,54 €
MLY1-06/SS	6	13,0	26,0	38	360	0,030	✔	3,73 €
MLY1-08/SS	8	17,0	34,0	50	540	0,080	✔	4,69 €
MLY1-10/SS	10	19,0	45,0	65	720	0,130	✔	7,60 €
MLY1-12/SS	12	24,6	54,0	72	1080	0,245	✔	13,76 €
MLY1-14/SS	13	28,0	65,0	91	1260	0,375	✔	18,67 €
MLY1-16/SS	16	33,0	71,0	105	1680	0,450	-	27,82 €
MLY1-20/SS	19	40,0	92,5	133	2400	0,860	-	52,58 €

**Depending on availability - Dimensions in mm*

Carabiner DIN5299 steel

MAC

Core diameter 5mm to 12mm

- ***Type C Carabiner***
- *White zinc plated steel*
- *Product carries no certification marking*

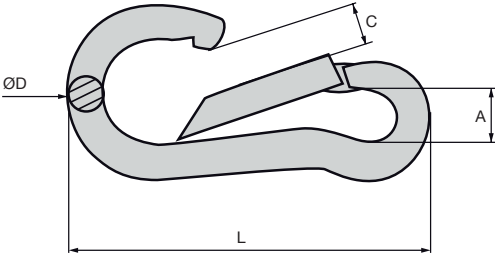


Application

- *The breaking strength is obtained by multiplying the SWL by a factor of safety of 4*

Info

- *Not suitable for climbing*
- *Also exists in stainless steel*



DISCOUNTS

Qty	1+	20+	40+	60+	80+	100+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	ØD	L	A	C	SWL (kg)	Weight (g)	Stock*	Price each 1 to 19
MAC5-50	5	50	8	7	50	16	✔	1,44 €
MAC6-60	6	60	8	8	90	26	✔	1,64 €
MAC7-70	7	70	11	9	150	44	✔	2,22 €
MAC8-80	8	80	12	10	190	62	✔	2,25 €
MAC9-90	9	90	13	11	230	92	-	2,47 €
MAC10-100	10	100	16	13	310	126	-	3,01 €
MAC11-120	11	120	19	17	340	192	-	3,92 €
MAC12-140	12	140	20	19	380	256	-	5,32 €

**Depending on availability - Dimensions in mm*

Core diameter 5 to 12mm

MACss

- ***Type C Carabiner***
- *Stainless steel 316*
- *Product carries no certification marking*

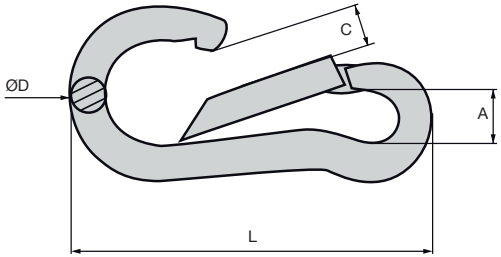


Application

- *The breaking strength is obtained by multiplying the SWL by a factor of safety of 4*

Info

- *Not suitable for climbing*
- *Also exists in steel*



DISCOUNTS

Qty	1+	20+	40+	60+	80+	100+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	D	L	A	C	SWL (kg)	Weight (g)	Stock*	Price each 1 to 19
MAC5-50/SS	5	50	8	7	90	16	✔	3,73 €
MAC6-60/SS	6	60	8	8	150	28	✔	4,46 €
MAC7-70/SS	7	70	10	9	180	43	✔	6,30 €
MAC8-80/SS	8	80	12	11	225	66	✔	7,15 €
MAC10-100/SS	10	100	14	14	375	129	✔	10,20 €
MAC11-120/SS	11	120	19	17	390	186	-	13,40 €
MAC12-140/SS	12	140	23	21	410	260	-	18,50 €

**Depending on availability - Dimensions in mm*

Pad eye on oval mounting plate

PPOSS

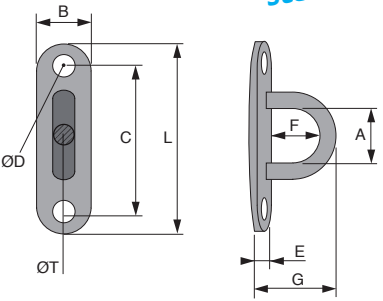
Stainless steel

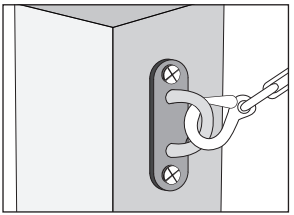
- ***Screwed mounting plate***
- *Material:*
  316 stainless steel

Info.

- *The load must be in line with the ring so as not to twist it*







Typical application

DISCOUNTS

Qty	1+	20+	40+	60+	80+	100+
Disc	Prix	-5%	-10%	-15%	-20%	On request

Part number	ØT	A	B	L	C	ØD	E	F	G	Weight (kg)	Stock*	Price each 1 to 19
PPO5-14/SS	5	14	15	45	35	4,5	2,8	13	21	0,019	✔	3,45 €
PPO6-16/SS	6	16	20	60	45	5	2,8	15	25	0,040	✔	5,33 €
PPO8-20/SS	8	20	26	80	60	5,5	2,8	23	33	0,065	✔	8,78 €

**Depending on availability - Dimensions in mm*

Pad eye on round mounting plate

Stainless steel

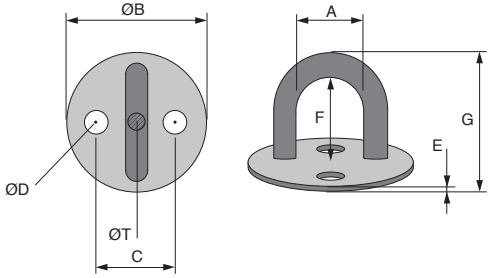
PPRSS

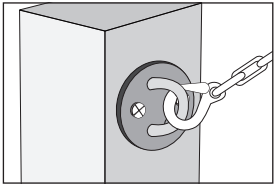
- ***Screwed mounting plate***
- *Material:*
  316 stainless steel

Info.

- *The load must be in line with the ring so as not to twist it*







Typical application

DISCOUNTS

Qty	1+	20+	40+	60+	80+	100+
Disc	Prix	-5%	-10%	-15%	-20%	On request

Part number	ØT	A	ØB	C	ØD	E	F	G	Weight (kg)	Stock*	Price each 1 to 19
PPR5-13/SS	5	13	33	20	4	2,8	13	21	0,023	✔	4,13 €
PPR6-17/SS	6	17	40	23	4,5	2,8	17	26	0,030	✔	5,95 €
PPR8-20/SS	8	20	50	29	5	2,8	22	33	0,068	-	9,41 €

**Depending on availability - Dimensions in mm*

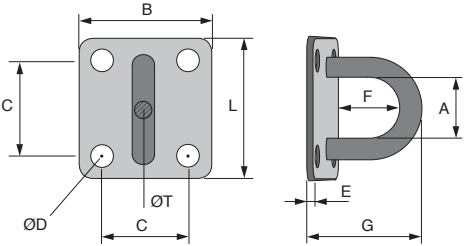
Pad eye on square mounting plate

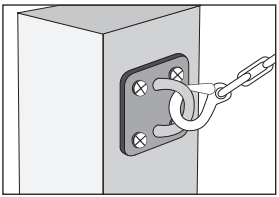
PPCSS

Stainless steel

- ***Screwed mounting plate***
- *Material:*
  316 stainless steel







Typical application

DISCOUNTS

Qty	1+	20+	40+	60+	80+	100+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	ØT	A	B	L	ØD	C	E	F	G	Weight (kg)	Stock*	Price each 1 to 19
PPC5-16/SS	5	16	30	35	5	19	2,8	15	23	0,027	-	4,16 €
PPC6-20/SS	6	20	35	40	5,5	24	2,8	17	26	0,040	✔	5,60 €
PPC8-23/SS	8	23	40	50	5,5	29	2,8	21	32	0,068	✔	8,68 €

**Depending on availability - Dimensions in mm*

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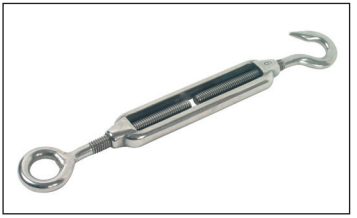
- Food industry version
- Pressed steel housings
- Food industry housings
- Cast housings
- Stainless steel housings

Rigging screw with hook/eye

TAC

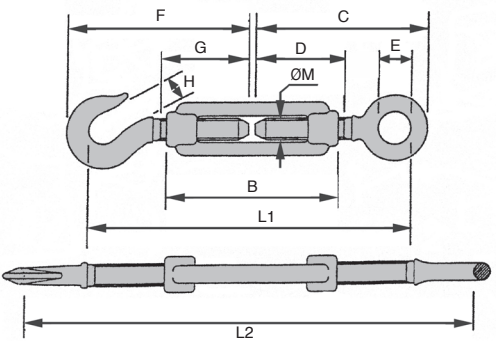
Turnbuckle

- ***Stamped Rigging screw with eye and hook***
- ***Fitting component***
- *Material: zinc plated steel Fe430B*



Info.

- *SWL: safe working load. The Safe Working Load is calculated by dividing the breaking load by a factor of safety of 3*
- ***Not sold individually, please contact us for details***



DISCOUNTS

Qty	1+	5+	10+	20+	30+	50+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	ØM	B	C	D	E	F	G	H	L1	L2	SLW (kg)	Weight (kg)	Stock*	Price each 1 to 4
TAC1-05	M5	80	60	40	8	62	40	6	114	176	50	0,055	✔	2,59 €
TAC1-06	M6	80	74	47	10	76	50	8	141	200	75	0,064	✔	2,90 €
TAC1-08	M8	105	79	52	11	88	52	10	156	236	165	0,126	✔	3,73 €
TAC1-10	M10	125	95	61	14	114	60	11	187	276	235	0,214	✔	5,76 €
TAC1-12	M12	140	105	65	17	122	66	16	226	311	320	0,398	-	8,01 €
TAC1-14	M14	170	128	85	18	147	82	15	254	378	430	0,608	-	11,93 €
TAC1-16	M16	190	160	97	23	172	105	20	296	466	530	0,845	-	16,57 €

**Depending on availability - Dimensions in mm*

Sta Stainless steel rigging screw with hook/eye

Turnbuckle

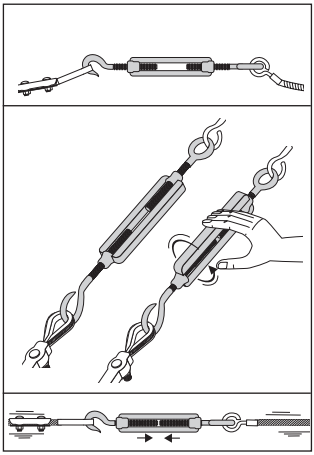
TACss

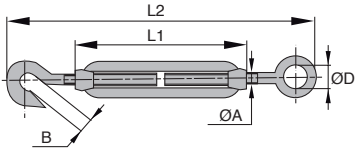
- ***Rigging screw with eye and hook***
- ***Fitting component***
- *Material: stainless steel 316*

Info.

- *SWL: safe working load. The Safe Working Load is calculated by dividing the breaking load by a factor of safety of 3*







DISCOUNTS

Qty	1+	5+	10+	20+	30+
Disc.	List	-5%	-10%	-15%	On request

Part number	ØA	B	ØD	L1	L2	SWL (kg)	Weight (kg)	Stock*	Price each 1 to 4
TAC1-05/SS	M5	9	8,3	71	122-179	180	0,046	✔	8,30 €
TAC1-06/SS	M6	9,5	10,0	90	160-228	360	0,076	✔	9,95 €
TAC1-08/SS	M8	11	12,0	120	210-303	650	0,165	✔	17,20 €
TAC1-10/SS	M10	13	15,8	150	255-376	1000	0,285	✔	21,96 €
TAC1-12/SS	M12	16,8	20,0	200	305-473	1400	0,515	-	33,67 €
TAC1-16/SS	M16	16,3	26,0	245	400-593	2300	1,110	-	68,29 €

**Depending on availability - Dimensions in mm*

Rigging screw with 2 hooks

TCC

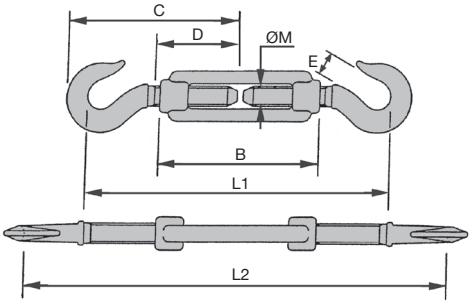
Turnbuckle

- ***Stamped Rigging screw with two hooks***
- ***Fitting component***
- *Material: zinc plated steel Fe430B*



Info.

- *SWL: safe working load.*
  The Safe Working Load is calculated by dividing the breaking load by a factor of safety of 3
- *** Not sold individually, please contact us for details*



DISCOUNTS

Qty	1+	5+	10+	20+	30+	50+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	ØM	B	C	D	E	L1	L2	SWL (kg)	Weight (kg)	Stock*	Price each 1 to 4
TCC1-05	M5	80	62	40	6	116	178	50	0,052	✔	2,69 €
TCC1-06	M6	80	76	50	8	143	205	75	0,065	✔	2,98 €
TCC1-08	M8	105	88	52	10	165	245	165	0,136	✔	4,06 €
TCC1-10	M10	125	111	60	12	213	307	235	0,220	✔	6,20 €
TCC1-12	M12	140	130	66	15	252	350	320	0,420	-	8,12 €
TCC1-14	M14	170	147	86	15	277	407	420	0,640	-	13,28 €
TCC1-16	M16	190	172	105	20	298	463	530	0,880	-	17,63 €

**Depending on availability - Dimensions in mm*

Sta Stainless steel rigging screw with 2 hooks

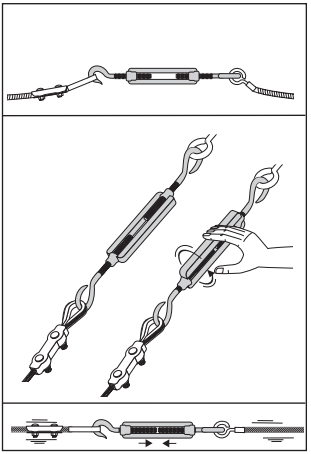
Turnbuckle TCCss

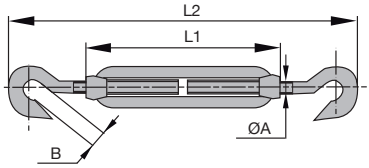
- ***Rigging screw with two hooks***
- ***Fitting component***
- *Material:*
  Clamp : stainless steel 316

Info.

- *SWL: safe working load.*
  The Safe Working Load is calculated by dividing the breaking load by a factor of safety of 3







DISCOUNTS

Qty	1+	5+	10+	20+	30+
Disc.	List	-5%	-10%	-15%	On request

Part number	ØA	B	L1	L2	SWL (kg)	Weight (kg)	Stock*	Price each 1 to 4
TCC1-05/SS	M5	9	71	128-184	180	0,045	✔	8,30 €
TCC1-06/SS	M6	10	90	160-228	360	0,075	✔	9,95 €
TCC1-08/SS	M8	9	120	215-309	650	0,165	-	17,20 €
TCC1-10/SS	M10	12	150	265-380	1000	0,280	-	21,96 €
TCC1-12/SS	M12	15	200	310-480	1400	0,510	-	33,67 €
TCC1-16/SS	M16	16	243	400-594	2300	1,060	-	68,29 €

**Depending on availability - Dimensions in mm*

Rigging screw with 2 jaws stainless steel Sta

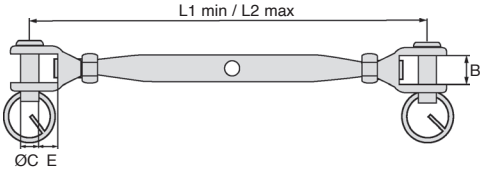
RDCss Diameter from 5mm to 20mm

Rigging screw with 2 welded jaws
- *Material : Stainless steel 316*
- *Supplied with fitted locking nuts*

Application

The breaking strength is obtained by multiplying the SWL by a factor of safety of 4





DISCOUNTS

Qty	1+	3+	5+	10+
Disc.	List	-5%	-10%	On request

Part number	Size	Thread	ØC	B	E	L1	L2	SWL (kg)	Weight (kg)	Stock*	Price each 1 to 2
RDC-5/SS	5	M5	5	6,5	8,0	126	190	150	0,056	✔	16,13 €
RDC-6/SS	6	M6	6	7,5	7,7	136	211	250	0,076	✔	17,95 €
RDC-8/SS	8	M8	8	11,0	9,4	170	255	360	0,154	✔	25,27 €
RDC-10/SS	10	M10	9	12,0	14,0	195	280	500	0,260	✔	32,58 €
RDC-12/SS	12	M12	12	14,0	20,0	260	380	650	0,536	✔	45,00 €
RDC-14/SS	14	M14	12	15,0	22,0	300	430	790	0,720	✔	58,69 €
RDC-16/SS	16	M16	16	21,0	24,0	315	455	980	1,086	-	84,55 €
RDC-20/SS	20	M20	20	28,0	38,0	410	560	1300	2,124	-	125,33 €

**Depending on availability -Dimensions in mm*

Stainless steel manual rigging screw

Diameter from 5mm to 12mm

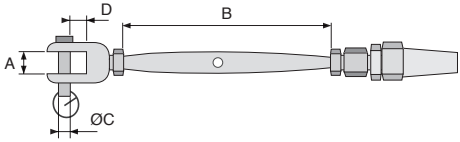
RDER

- ***Rigging screw with 1 welded clevis and manually tightened end***
- *Material: 316 stainless steel*



Advantages

- *Quick and easy fixing on the end of a cable (For mounting method, refer to* ***ERF/SS*** *page)* **(tome 1 p.431)**



DISCOUNTS

Qty	1+	3+	5+	10+
Disc.	List	-5%	-10%	On request

Part number	For cable ØD1	A	B	ØC	D	Weight (g)	Price each 1 to 2
RDER3-5/SS	3	10	80,0	5	8	68	52,21 €
RDER3-6/SS	3	8	92,0	6	8,5	106	57,89 €
RDER4-6/SS	4	8	92,0	6	8,5	124	65,82 €
RDER4-8/SS	4	10	112,0	8	11	202	74,82 €
RDER5-8/SS	5	10	112,0	8	11	224	96,32 €
RDER5-10/SS	5	11,5	120,0	10	12	330	108,14 €
RDER6-10/SS	6	11,5	120,0	10	12	362	113,64 €
RDER6-12/SS	6	14	150,0	12	16	560	165,14 €

Dimensions in mm

Threaded eye hook stainless steel Stastock

PTBss

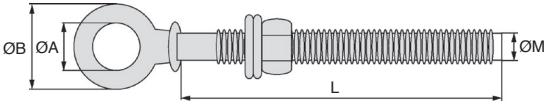
Diameter from M6 to M12

Eye bolt
- Material : Stainless steel 316
- Product carries no certification marking

Utilisation

The breaking strength is obtained by multiplying the SWL by a factor of safety of 4





DISCOUNTS

Qty	1+	5+	10+	20+	30+	50+
Disc.	Prix	-5%	-10%	-15%	-20%	On request

Part number	ØM	L	ØA	ØB	SWL (kg)	Weight (kg)	Stock*	Price each 1 to 4
PTB6-40/SS	M6	40	12	22	120	0,020	✔	5,26 €
PTB6-60/SS	M6	60	12	22	120	0,030	✔	5,63 €
PTB6-80/SS	M6	80	12	22	120	0,030	✔	6,05 €
PTB8-60/SS	M8	60	14	26	225	0,050	✔	7,36 €
PTB8-80/SS	M8	80	14	26	225	0,055	✔	8,06 €
PTB8-100/SS	M8	100	14	26	225	0,060	✔	8,91 €
PTB10-100/SS	M10	100	16	30	375	0,105	✔	13,79 €
PTB12-120/SS	M12	120	16	35	600	0,165	✔	21,69 €

*Depending on availability - Dimensions in mm

With long red and white links

CHNRB

- ***Steel chain supplied by the box***
- *Red and white painted steel*

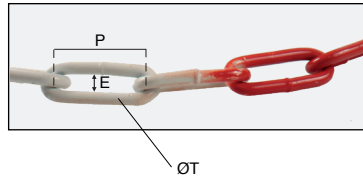
Applications

- *Warning, signalling*

Info

- *Not to be used for lifting applications*





DISCOUNTS

Qty	1+	3+	10+
Disc.	Net	-10%	On request

Part number	Link ØT	P	E	Typical working load (kg)	Length per box	Weight per box (kg)	Stock*	Price each 1 to 2
CHN-5/RB/B	5	35	10	155	25	10,50	✔	115,84 €

**Depending on availability - Dimensions in mm*

Straight long link chain

CHN Conforms to NFE26020 and DIN5685C

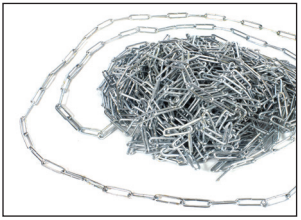
- ***Galvanised steel chain, supplied by the box***

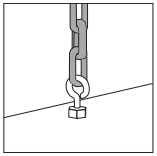
Applications

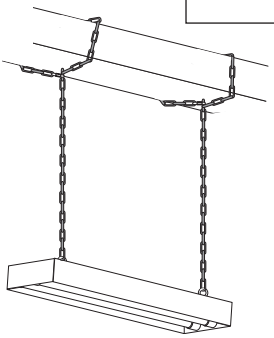
- *Rigging, safety barriers, signage*

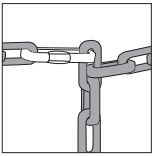
Info.

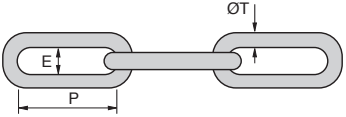
- *Under no circumstances should this type of chain be used for lifting*











DISCOUNTS

Qty	1+	3+	5+	10+
Disc.	List	-10%	-15%	On request

Part number	Chain ØT	P	E	Max carrying load (kg)	Length / Box (m)	Weight / Box (kg)	Stock*	Price each 1 to 2
CHN-2/B	2,0	22	4	25	25	1,56	✔	23,03 €
CHN-2.5/B	2,5	24	5	40	25	2,53	-	26,34 €
CHN-3/B	3,0	26	6	60	25	3,70	✔	32,48 €
CHN-3.5/B	3,5	28	7	75	25	5,30	-	41,83 €
CHN-4/B	4,0	32	8	100	25	6,70	✔	48,06 €
CHN-4.5/B	4,5	34	9	125	25	8,90	-	58,67 €
CHN-5/B	5,0	35	10	155	25	10,00	✔	64,10 €
CHN-6/B	6,0	42	12	230	25	15,70	-	100,18 €
CHN-7/B	7,0	49	14	300	25	21,40	-	136,72 €
CHN-8/B	8,0	52	16	400	10	11,60	-	70,54 €

**Depending on availability - Dimensions in mm*

Sta Straight long link stainless steel chain

Conforms to NFE26020 and DIN5685C CHNss

- ***Stainless steel chain, supplied by the box***

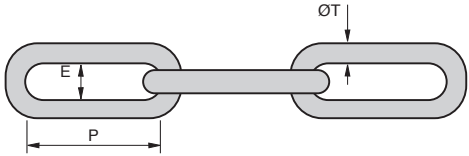
Applications

- *Rigging, safety barriers, signage*

Info.

- *Under no circumstances should this type of chain be used for lifting*





DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

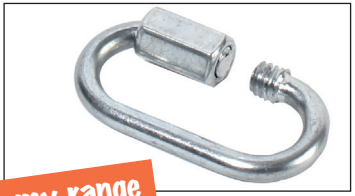
Part number	Chain ØT	P	E	Max carrying load (kg)	Length / Box (m)	Weight / Box (kg)	Stock*	Price each
CHN-2/SS/B	2,0	22	4	25	25	1,49	✔	76,94 €
CHN-2.5/SS/B	2,5	24	5	40	25	2,54	✔	113,35 €
CHN-3/SS/B	3,0	26	6	60	25	3,74	✔	162,75 €
CHN-4/SS/B	4,0	32	8	100	25	6,83	✔	272,37 €
CHN-5/SS/B	5,0	35	10	155	25	10,64	-	424,91 €
CHN-6/SS/B	6,0	42	12	230	25	15,62	-	621,44 €
CHN-8/SS/B	8,0	52	16	400	10	11,28	-	424,91 €

**Depending on availability - Dimensions in mm*

Low cost quick link

MRA ECO — Link diameter 3.5-16mm

- ***For joining or closing chains***
- *White chromed steel*
- ***Low cost range, no SWL specified***
- *Engraved with ring diameter*



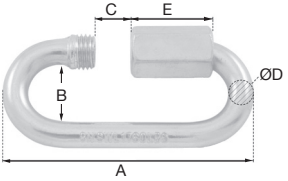
Economy range

Application

- *Nominal load figures are given as an indication only*
- *Should not be used for lifting (load values not guaranteed)*

Info

- *Also available in stainless steel*



DISCOUNTS

Qty	1+	20+	40+	60+	80+	100+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	ØD	A	B	C	E	Nominal load (kg)	Weight (g)	Stock*	Price each 1 to 19
MRA1-03/ECO	3,5	36,0	10,0	5,0	12,0	100	8	✔	0,48 €
MRA1-04/ECO	4,0	39,5	11,5	6,0	14,0	180	12	✔	0,61 €
MRA1-05/ECO	5,0	49,5	13,0	7,0	17,0	280	22	-	0,66 €
MRA1-06/ECO	6,0	57,0	14,5	8,0	20,0	400	36	✔	0,81 €
MRA1-07/ECO	7,0	66,0	16,0	9,0	22,5	550	52	-	1,15 €
MRA1-08/ECO	8,0	74,0	17,5	10,0	24,0	700	76	✔	1,31 €
MRA1-09/ECO	9,0	80,0	19,0	11,0	27,0	900	110	-	1,89 €
MRA1-10/ECO	10,0	89,0	20,5	12,0	30,0	1100	146	-	2,48 €
MRA1-12/ECO	12,0	104,5	23,5	14,0	34,0	1500	234	-	3,97 €
MRA1-14/ECO	14,0	121,0	26,5	17,0	39,0	2200	358	-	8,96 €
MRA1-16/ECO	16,0	140,0	29,5	19,0	43,0	2900	520	-	12,47 €

**Depending on availability - Dimensions in mm*

Sta € Eco Stock Low cost stainless steel quick link

Link diameter 3.5-12mm

MRASSECO

- ***For joining or closing chains***
- Stainless steel 316
- ***Low cost range, no SWL specified***

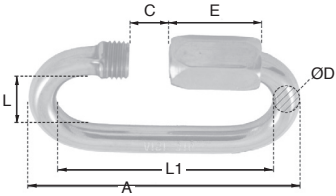
Application

- Nominal load figures are given as an indication only
- Should not be used for lifting (load values not guaranteed)

Info

- Also available in steel





DISCOUNTS

Qty	1+	20+	40+	60+	80+	100+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	ØD	A	L1	L	C	E	Nominal load (kg)	Weight (g)	Stock*	Price each 1 to 19
MRA1-03/SS/ECO	3,5	37,2	30,4	9,7	5,5	12,6	220	8	✔	3,20 €
MRA1-04/SS/ECO	4,0	41,0	33,0	11,7	6,3	12,7	280	12	✔	3,48 €
MRA1-05/SS/ECO	5,0	51,2	41,0	13,0	7,0	17,0	450	22	✔	3,94 €
MRA1-06/SS/ECO	6,0	59,0	47,0	14,7	8,8	20,0	650	36	✔	4,45 €
MRA1-07/SS/ECO	7,0	67,7	54,0	18,3	9,7	23,7	900	54	-	7,64 €
MRA1-08/SS/ECO	8,0	74,6	59,0	18,3	9,9	25,0	1100	76	✔	8,94 €
MRA1-10/SS/ECO	10,0	89,0	70,0	22,2	12,8	30,0	1800	138	-	15,46 €
MRA1-12/SS/ECO	12,0	105,0	82,0	24,8	14,2	34,0	3500	224	-	24,75 €

**Depending on availability - Dimensions in mm*

Quick link

MRA

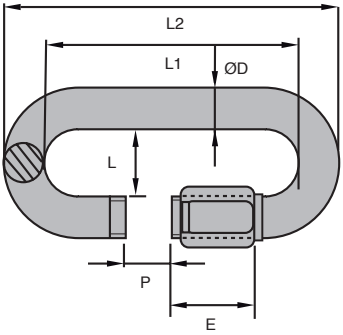
Link diameter 4-12mm

- ***For joining or closing chains***
- *Screw to secure*
- *Fully tighten to ensure safety CE and SWL markings*
- *Material:*
  Link : Steel Fe430B zinc treated
  Nut: Steel A-42-Fm



Info.

- *SWL: safe working load.*
  The Safe Working Load is calculated by dividing the Breaking Strength by a factor of safety of 5.
- ***Not sold individually, please contact us for details***



DISCOUNTS

Qty	1+	10+	20+	30+	50+
Disc.	List	-5%	-10%	-15%	On request

Part number	ØD	L2	L1	L	P	E	SWL (kg)	Weight for 100 pieces (kg)	Stock*	Price each 1 to 9
MRA1-04	4	39,5	31,5	11,5	5,5	12,5	180	1,170	-	2,84 €
MRA1-05	5	49,5	39,5	13,0	6,5	16,0	280	2,050	✔	3,23 €
MRA1-06	6	57,0	45,0	14,5	7,5	19,0	400	3,450	✔	3,81 €
MRA1-07	7	66,0	52,0	16,0	8,5	21,5	550	5,100	✔	4,80 €
MRA1-08	8	74,0	58,0	17,5	11,0	24,0	700	7,700	✔	5,52 €
MRA1-09	9	80,0	62,0	19,0	11,0	26,0	900	10,250	✔	7,45 €
MRA1-10	10	89,0	69,0	20,5	12,0	29,0	1100	13,700	✔	8,27 €
MRA1-12	12	104,5	80,5	23,5	15,0	33,0	1500	23,200	✔	11,97 €

**Depending on availability - Dimensions in mm*

Link diameter 4-12mm

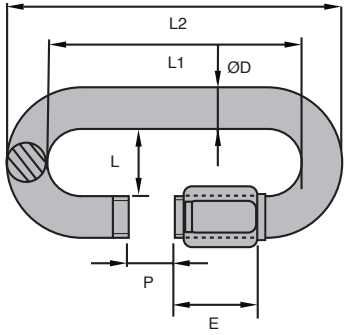
MRAss

- ***For joining or closing chains***
- Screw to secure
- Fully tighten to ensure safety
- Material:
  Stainless steel 316
  Ring/nut X2CrNi



Info.

- SWL: safe working load.
  The Safe Working Load is calculated by dividing the Breaking Strength by a factor of safety of 3.



DISCOUNTS

Qty	1+	5+	10+	20+	30+
Disc.	List	-5%	-10%	-15%	On request

Part number	ØD	L2	L1	L	P	E	SWL (kg)	Weight for 100 pieces (kg)	Stock*	Price each 1 to 4
MRA1-04/SS	4	40,0	32,0	11,0	6,0	12,0	280	1,200	-	10,77 €
MRA1-05/SS	5	48,0	38,0	12,0	7,0	16,0	450	2,100	✔	12,02 €
MRA1-06/SS	6	57,0	45,0	14,0	9,0	19,0	650	3,540	✔	15,34 €
MRA1-07/SS	7	66,0	52,0	16,0	8,0	21,0	900	5,230	-	20,88 €
MRA1-08/SS	8	73,0	57,0	17,0	12,0	24,0	1100	7,900	-	20,88 €
MRA1-09/SS	9	80,0	62,0	19,0	11,0	26,0	1400	10,500	-	31,55 €
MRA1-10/SS	10	89,0	69,0	20,0	13,0	29,0	1800	14,050	-	38,19 €
MRA1-12/SS	12	105,0	81,0	23,0	16,0	34,0	2500	23,200	✔	60,81 €

**Depending on availability - Dimensions in mm*

Symmetrical S shaped hook

€ Eco Stock

WSS — Wire diameter from 2mm to 8mm

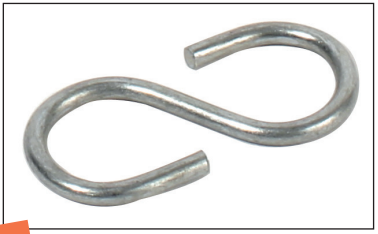
- **Low cost range of S shaped hooks**
- White galvanized steel

Application

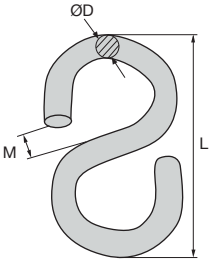
- Not suitable for lifting applications

Info

- Also available in stainless steel
- Dimensions are provided for information only and may vary depending on supplies.



Economy range



DISCOUNTS

Qty	1+	80+	120+	160+	200+
Disc.	List	-10%	-15%	-20%	On request

Part number	ØD	L	M	Weight (g)	Qty per packet	Stock*	Price each 1 to 79
WSS2-30/B	2,0	20	2,5	2,0	40	-	3,20 €
WSS2.5-33/B	2,5	27	3,5	3,0	40	-	3,77 €
WSS3-33/B	3,0	28	3,5	4,5	40	✔	3,98 €
WSS4-40/B	4,0	32	4,0	9,0	40	-	5,87 €
WSS5-47/B	5,0	38	5,0	17,0	20	✔	4,73 €
WSS6-61/B	6,0	50	7,0	31,0	10	-	4,19 €

*Depending on availability - Dimensions in mm

Sta Stock Symmetrical S shaped hook stainless steel

Wire diameter from 2mm to 8mm

WSSss

- **Low cost range of S shaped hooks**
- 304 stainless steel

Application

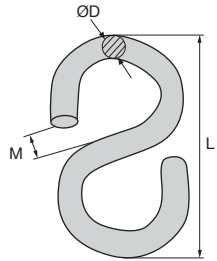
- Not suitable for lifting applications

Info

- Also available in normal steel
- Dimensions are provided for information only and may vary depending on supplies.



Economy range



DISCOUNTS

Qty	1+	80+	120+	160+	200+
Disc.	List	-10%	-15%	-20%	On request

Part number	ØD	L	M	Weight (g)	Qty per packet	Stock*	Price each 1 to 79
WSS2-30/SS/B	2,0	20	2,5	1,6	5	✔	1,65 €
WSS2.5-33/SS/B	2,5	27	3,5	2,8	5	-	2,70 €
WSS3-33/SS/B	3,0	28	3,5	4,0	5	✔	2,93 €
WSS4-40/SS/B	4,0	32	4,0	9,0	5	✔	6,42 €
WSS5-49/SS/B	5,0	38	5,0	17,0	5	✔	7,85 €
WSS6-63/SS/B	6,0	50	7,0	32,0	5	✔	9,20 €

**Depending on availability - Dimensions in mm*

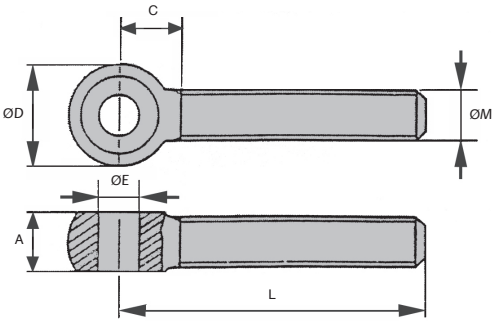
Eye bolt

CMA

Thread diameter M6 to M20

- **Eye bolt**
- Stamped ring, closed
- ISO thread
- Material: Blackened steel





DISCOUNTS

Qty	1+	20+	40+	60+	80+	100+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	ØM	L	A	C	ØD	ØE	Weight (kg)	Stock*	Price each 1 to 19
CMA1-06	M6	50	7	8,5	12	5	0,012	✔	5,87 €
CMA1-08	M8	60	9	11,1	16	6	0,025	✔	6,11 €
CMA1-10	M10	80	12	13,8	20	8	0,048	✔	8,44 €
CMA1-12	M12	90	14	16,4	24	10	0,088	✔	9,98 €
CMA1-14	M14	120	16	19,0	28	12	0,153	✔	13,25 €
CMA1-16	M16	140	18	21,0	32	14	0,303	✔	13,57 €
CMA1-18	M18	150	20	24,2	36	16	0,328	-	15,15 €
CMA1-20	M20	160	22	26,2	40	18	0,431	✔	18,81 €

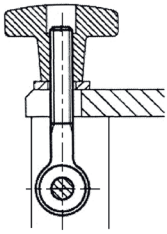
**Depending on availability - Dimensions in mm*

- *Eye bolt*
- *Stainless steel*
- *Conforms to DIN 444 type B*

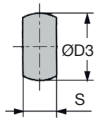
Accessories

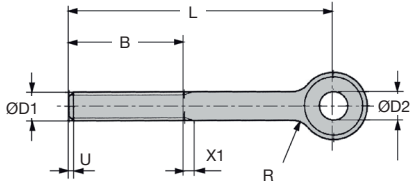
- *Small lobe* **VBFP** *(tome 1 p.129)*





Typical application





U = max 2 threads
X1 conforms to DIN76

DISCOUNTS

Qty	1+	5+	10+	20+	30+
Disc.	List	-5%	-10%	-15%	On request

Part number	L	ØD1	ØD2	ØD3	B	S	R	Weight (kg)	Stock*	Price each 1 to 4
CMA1-05-50/SS	50	M5	5	12	16	6	2,5	0,011	✔	15,00 €
CMA1-06-50/SS	50	M6	6	14	18	7	4	0,016	✔	11,88 €
CMA1-06-75/SS	75	M6	6	14	18	7	4	0,021	✔	13,52 €
CMA1-08-50/SS	50	M8	8	18	22	9	4	0,030	✔	13,65 €
CMA1-08-75/SS	75	M8	8	18	22	9	4	0,040	✔	15,51 €
CMA1-10-75/SS	75	M10	10	20	26	12	4	0,055	✔	15,99 €
CMA1-10-100/SS	100	M10	10	20	26	12	4	0,070	✔	16,68 €
CMA1-12-75/SS	75	M12	12	25	30	14	6	0,085	✔	19,58 €
CMA1-12-100/SS	100	M12	12	25	30	14	6	0,100	-	21,50 €
CMA1-12-120/SS	120	M12	12	25	30	14	6	0,124	-	22,79 €
CMA1-12-130/SS	130	M12	12	25	36	14	6	0,135	✔	23,50 €
CMA1-16-130/SS	130	M16	16	32	44	17	6	0,244	-	42,21 €

**Depending on availability - Dimensions in mm*

WELDED LIFTING RING FOR LIFTS



p.464

MALE EYE BOLT



p.467

SELF-LOCKING LIFTING PIN FOR THREADED HOLE



p.470

SWIVELLING LIFTING RINGS

stainless steel



p.476

UNIVERSAL THREADED LIFTING HOOK



p.478

ROTATING LIFTING

P. 462-483

ROTATING LIFTING RING



p.480

FOLDING LIFTING RING FOR WELDING



p.482

Buying guide

Lifting eye bolt

						
Part number	**ADL$_M$**	**ADL$_F$**	**VRS**	**VRM**	**VRS$_{SS}$**	**VLBG**
Attachment	To be screwed	To be screwed	To be screwed	To be screwed	To be screwed	To be screwed
Model	DIN 580	DIN 580	swivel ring	swivel ring	swivel ring	arched with stirrup
Orientable	✘	✘	✔	✔	✔	✔
Type	male	female	male	female	male	male
Material	steel or stainless steel	steel or stainless steel	steel	steel	stainless steel	steel
Working load limit WLL (ton)*	8,6	8,6	4,5	4,5	2,6	5
Ø thread	M6 ➜ M48	M6 ➜ M48	M6 ➜ M30	M6 ➜ M30	M12 ➜ M24	M8 ➜ M30
Quality index	☆	☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆
Price	€	€	€€	€€	€€€	€€€
Pages	1 **p.467**	1 **p.466**	1 **p.474**	1 **p.477**	1 **p.476**	1 **p.480**

*The CMU will vary depending on the angle of the load.

						
PPS	**WBG**	**VLBS**	**VRBS**	**BAB$_A$**	**BAB$_{AM}$**	**ASL / ASH**
To be screwed	To be screwed	to be welded	to be welded	ball pin	ball pin for threaded hole	to be welded
screw-on hook	link ring	central weld on block	2 weld on blocks	swivel ring	swivel ring	fixe ring
✔	✔	hinged	hinged	✔	✔	✘
male	male	-	-	pin	pin	-
steel	steel	steel	steel	steel	steel	steel
8	6	10	50	0,48	0,84	8
M12 ➜ M36	M8 ➜ M30	-	-	Ø10 ➜ Ø16	M10 ➜ M16	
☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆
€€€	€€€	€€	€€	€€	€€€	€
1 p.478	1 p.479	1 p.482	1 p.483	1 p.468	1 p.470	1 p.465

Welded lifting ring for straight lifts

Stock

ASH

Steel

- ***Weldable lifting ring***
- *Marked with CE symbol, SWL and manufacturer's ref*
- *Material:*
  Black unfinished steel

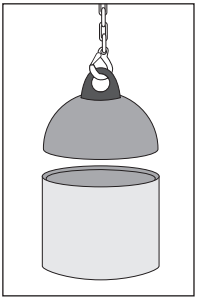


Assembly

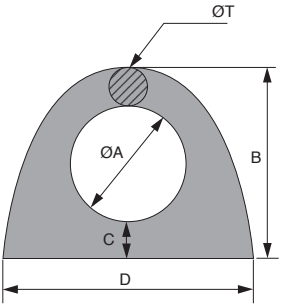
- *Installation instructions available on request*
- *Welding should be done in accordance with DIN 5817 (section 15 429) by an operator qualified to EN287-1*

Info.

- *The breaking load is obtained by multiplying the SWL by a factor of safety of 5.*



Typical application



DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-10%	-20%	On request

Part number	SWL (kg)	ØT	ØA	B	C	D	Weight (kg)	Stock*	Price each 1 to 5
ASH24-200	200	9	24	43	10	54	0,06	✔	2,07 €
ASH31-500	500	12	31	55	12	68	0,14	✔	2,97 €
ASH43-1000	1000	13	43	67	12	85	0,18	✔	4,44 €
ASH48-2000	2000	18	48	82	16	105	0,40	✔	6,92 €
ASH57-3000	3000	21	57	95	17	128	0,66	-	13,19 €
ASH67-4000	4000	25	67	107	15	148	1,02	-	25,10 €
ASH82-6000	6000	28	82	135	24	189	1,92	-	77,99 €
ASH100-8000	8000	30	100	165	35	210	3,12	-	81,93 €

**Depending on availability - Dimensions in mm*

Welded lifting ring for 45° lifts

Steel

ASL

- ***Weldable lifting ring***
- *Marked with CE symbol, SWL and manufacturer's ref*
- *Material:*
  Black unfinished steel

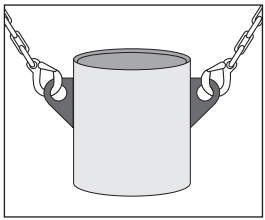


Assembly

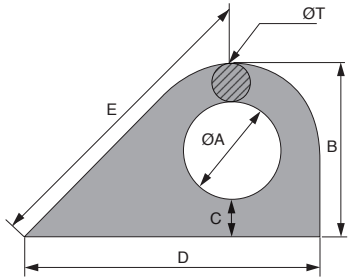
- *Installation instructions available on request*
- *Welding should be done in accordance with DIN 5817 (section 15 429) by an operator qualified to EN287-1*

Info.

- *The breaking load is obtained by multiplying the SWL by a factor of safety of 5.*



Typical application



DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-10%	-20%	On request

Part number	SWL (kg)	ØT	ØA	B	C	D	E	Weight (kg)	Stock*	Price each 1 to 5
ASL31-500	500	12	31	55	13	89	82	0,16	✔	3,55 €
ASL42-1000	1000	14	42	69	13	113	101	0,30	✔	4,53 €
ASL45-2000	2000	18	45	81	18	134	123	0,50	✔	9,42 €
ASL57-3000	3000	21	57	97	19	152	140	0,80	-	15,81 €
ASL65-4000	4000	24	65	113	23	167	155	1,24	-	26,15 €
ASL83-6000	6000	28	83	140	31	218	205	2,36	-	65,55 €

**Depending on availability - Dimensions in mm*

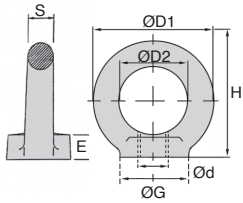
Female eye bolt DIN582

Stock Sta Ste DIN

ADLF

Steel or stainless steel

- **Lifting eye bolt**
- ISO thread
- Material:
  Black stamped steel
  Stainless steel 316





Steel eye bolt

Mounting

- Chamfer the hole into which the bolt will screw or use washers to ensure correct seating.
- Before assembly, clean the threads
- Screw lifting eye in fully
- The load should be lifted in the direction of the thread, +/- 20° and the pulling force should be along the axial plane of the eye.
- The use of these lifting eyes at an angle greater than 45° is not permitted.
- When the load to be lifted is aluminium, avoid leaving the eyes screwed in to avoid possible corrosion.

stainless steel



Stainless steel eye bolt

Info.

SWL: safe working load
The Safe Working Load is calculated by dividing the breaking Strength by a factor of safety of 5.

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-10%	-20%	On request

Part number	Ød	H	ØD1	ØD2	ØG	E	ØS	SWL (kg)	SWL at 45° (kg)	Weight (kg)	Stock*	Price each 1 to 5
Steel eye bolt												
ADL-6F	M6	36	36	20	22	9	9	90	60	0,060	✔	1,93 €
ADL-8F	M8	36	36	20	21	11	9	140	95	0,060	✔	1,96 €
ADL-10F	M10	45	45	25	26	10	10	230	170	0,100	✔	2,31 €
ADL-12F	M12	52	55	29	31	11	12	340	240	0,160	✔	3,14 €
ADL-16F	M16	62	63	34	34	15	14	700	500	0,240	✔	4,40 €
ADL-20F	M20	71	72	39	40	17	16	1200	830	0,360	✔	6,89 €
ADL-24F	M24	89	90	48	49	22	21	1800	1270	0,715	-	12,21 €
ADL-30F	M30	109	108	60	65	25	24	3200	2300	1,400	-	23,86 €
ADL-36F	M36	137	127	69	81	38	31	4600	3300	2,300	-	41,40 €
ADL-42F	M42	147	144	80	85	35	32	6300	4500	3,500	-	81,17 €
ADL-48F	M48	185	170	88	102	45	41	8600	6100	5,670	-	130,90 €
Stainless steel eye bolt												
ADL-6F/SS	M6	-	35	19	20	9	9	180	-	0,055	✔	7,01 €
ADL-8F/SS	M8	-	36	19	20	10	8	300	-	0,050	✔	7,90 €
ADL-10F/SS	M10	-	45	24	24	11	9	500	-	0,090	✔	13,10 €
ADL-12F/SS	M12	-	53	29	29	13	12	800	-	0,155	✔	18,32 €
ADL-14F/SS	M14	-	54	30	30	11	12	1100	-	0,165	-	20,93 €
ADL-16F/SS	M16	-	63	34	35	15	14	1500	-	0,250	✔	24,09 €
ADL-20F/SS	M20	-	72	40	40	15	16	2400	-	0,360	-	44,33 €
ADL-24F/SS	M24	-	90	50	50	20	20	3600	-	0,720	-	79,17 €

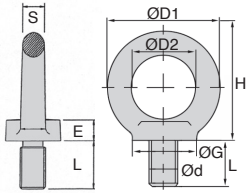
*Depending on availability - Dimensions in mm

Male eye bolt DIN580

Steel or stainless steel

ADLM

- ***Lifting eye bolt***
- ISO thread
- Material:
  Black stamped steel
  Stainless steel 316





Steel eye bolt

Mounting

- Chamfer the hole into which the bolt will screw or use washers to ensure correct seating.
- Before assembly, clean the threads
- Screw lifting eye in fully
- The load should be lifted in the direction of the thread, +/- 20° and the pulling force should be along the axial plane of the eye.
- The use of these lifting eyes at an angle greater than 45° is not permitted.
- When the load to be lifted is aluminium, avoid leaving the eyes screwed in to avoid possible corrosion.



Stainless steel eye bolt

Info.

SWL: safe working load
The Safe Working Load is calculated by dividing the breaking Strength by a factor of safety of 5.

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-10%	-20%	On request

Part number	Ød	L	H	ØD1	ØD2	ØG	E	ØS	SWL (kg)	SWL at 45° (kg)	Weight (kg)	Stock*	Price each 1 to 5
Steel eye bolt													
ADL-6M	M6	13	36	36	20	20	6	8	90	60	0,060	✔	1,96 €
ADL-8M	M8	13	38	36	20	21	7	9	140	95	0,060	✔	2,00 €
ADL-10M	M10	16	46	45	24	26	9	10	230	170	0,110	✔	2,43 €
ADL-12M	M12	19	56	55	29	30	12	11	340	240	0,170	✔	2,96 €
ADL-16M	M16	28	65	64	36	35	12	14	700	500	0,290	✔	4,62 €
ADL-20M	M20	30	74	72	40	40	14	17	1200	830	0,450	✔	6,89 €
ADL-24M	M24	36	92	89	49	51	18	21	1800	1270	0,880	✔	11,71 €
ADL-30M	M30	43	111	108	60	65	23	25	3200	2300	1,640	✔	22,24 €
ADL-36M	M36	54	131	126	68	80	24	29	4600	3300	2,710	-	38,68 €
ADL-42M	M42	61	153	148	79	90	33	35	6300	4500	4,250	-	73,24 €
ADL-48M	M48	68	168	166	90	100	35	38	8600	6100	6,200	-	126,91 €
Stainless steel eye bolt													
ADL-6M/SS	M6	13	-	35	20	20	7	8	180	-	0,050	✔	7,46 €
ADL-8M/SS	M8	13	-	36	20	20	6	8	300	-	0,060	✔	7,97 €
ADL-10M/SS	M10	17	-	45	25	25	8	10	500	-	0,115	✔	13,46 €
ADL-12M/SS	M12	20	-	54	30	30	10	12	800	-	0,190	✔	18,70 €
ADL-14M/SS	M14	20	-	54	30	30	10	12	1100	-	0,190	✔	21,49 €
ADL-16M/SS	M16	27	-	63	35	35	12	14	1500	-	0,280	✔	27,19 €
ADL-20M/SS	M20	30	-	72	40	40	14	16	2400	-	0,450	-	45,38 €
ADL-24M/SS	M24	35	-	90	50	50	17	22	3600	-	0,900	-	87,60 €

*Depending on availability - Dimensions in mm

Lifting ring

BABA

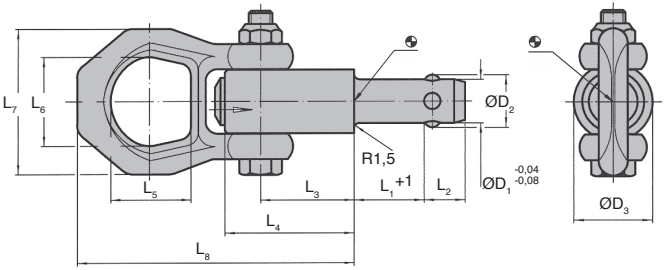
With ball pin

- ***Self locking***
- *Materials:*
  Pin/shackle: Manganese-phosphate treated steel
  Press bolt: Aluminium
  Spring: stainless steel
- *Max working temperature: +250°C*
- *TUV and CE marking*



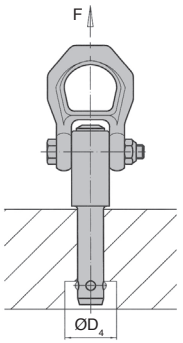
Advantages

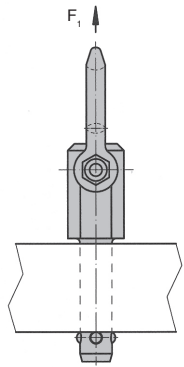
- *Corrosion resistant*
- *Press = Unlock*
- *Quick and simple to use for carry workpieces, moveable handle and protection against accidental release.*
- *An H11 toleranced borehole is all that is required, specially tapped holes in workpieces are no longer required*

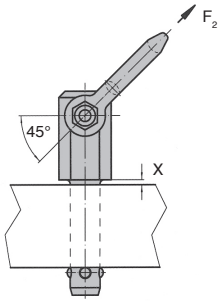


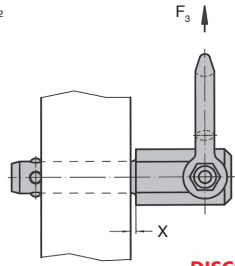
Part number	ØD1	L1	ØD2	ØD3	ØD4 min.	L2	L3	L4	L5	L6	L7	L8	For bore diameter H11
BAB10-15/A	10	15	11,7	21,5	12,2	10,2	25,7	36,0	27	30	49	87,5	10
BAB10-25/A	10	25	11,7	21,5	12,2	10,2	25,7	36,0	27	30	49	87,5	10
BAB10-35/A	10	35	11,7	21,5	12,2	10,2	25,7	36,0	27	30	49	87,5	10
BAB10-50/A	10	50	11,7	21,5	12,2	10,2	25,7	36,0	27	30	49	87,5	10
BAB12-15/A	12	15	14,2	21,5	14,7	11,0	25,7	36,0	27	30	49	87,5	12
BAB12-25/A	12	25	14,2	21,5	14,7	11,0	25,7	36,0	27	30	49	87,5	12
BAB12-35/A	12	35	14,2	21,5	14,7	11,0	25,7	36,0	27	30	49	87,5	12
BAB12-50/A	12	50	14,2	21,5	14,7	11,0	25,7	36,0	27	30	49	87,5	12
BAB16-25/A	16	25	18,6	26,0	19,2	15,1	31,0	44,5	27	30	49	92,8	16
BAB16-50/A	16	50	18,6	26,0	19,2	15,1	31,0	44,5	27	30	49	92,8	16
BAB16-75/A	16	75	18,6	26,0	19,2	15,1	31,0	44,5	27	30	49	92,8	16

Dimensions in mm









CE

DISCOUNTS

Qty	1+	3+	6+
Disc.	List	-5%	On request

Part number	X min.	X max.	F_1* (kN)	F_2* (kN)	F_3* (kN)	Weight (g)	Price each 1 to 2
BAB10-15/A	1,5	10	2,7	2,4	2,1	223	167,39 €
BAB10-25/A	1,5	15	2,7	2,4	2,1	230	167,42 €
BAB10-35/A	1,5	25	2,7	2,4	2,1	240	167,39 €
BAB10-50/A	1,5	35	2,7	2,4	2,1	247	167,39 €
BAB12-15/A	1,5	10	3,5	3,2	2,8	231	181,95 €
BAB12-25/A	1,5	20	3,5	3,2	2,8	238	181,95 €
BAB12-35/A	1,5	25	3,5	3,2	2,8	240	181,95 €
BAB12-50/A	1,5	45	3,5	3,2	2,8	262	181,95 €
BAB16-25/A	1,5	20	4,8	4,5	4,1	306	201,60 €
BAB16-50/A	1,5	40	4,8	4,5	4,1	345	201,60 €
BAB16-75/A	1,5	55	4,8	4,5	4,1	384	201,60 €

**For a quintuple safety factor - Dimensions in mm*

Self-locking lifting pin for threaded hole

BABAM Self-locking

- **Self-locking lifting pin for threaded hole**
- Quick, simple and robust use as a lifting element with a moving shackle secured against accidental unlocking.
- Working temperature range: 250°C
- Materials:
  Axle and shackle: Tempered steel, manganese phosphating
  Push button: Aluminium, orange anodised
  Threaded elements: Stainless steel 630 hardened
  Spring: Stainless steel

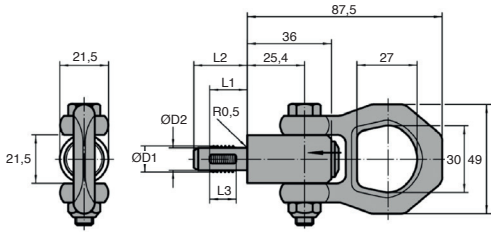


Operations

- Press the button to unlock the threaded elements.
- Insert the lifting pin into a threaded hole to lift loads.

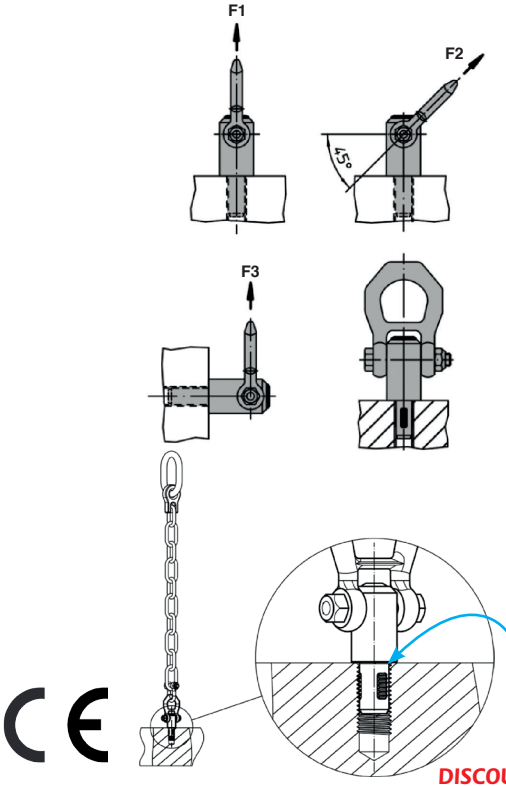
Advantage

- Unlike a ring with a thread, no time is wasted screwing and unscrewing



Part number	ØD1	L1	ØD2 -0,07	L2	L3
BAB10-14/AM	M10	14	8,35	20	10
BAB12-17/AM	M12	17	10,07	24	12
BAB16-17/AM	M16	17	13,8	24	12

*Dimensions in mm



DISCOUNTS

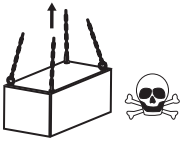
Qty	1+	3+	6+
Disc.	Price	-5%	On request

Part number	Load capacity(1) (kN) F1	F2	F3	Weight (g)	Price each 1 to 2
BAB10-14/AM	3,9	1,5	1,5	218	319,93 €
BAB12-17/AM	6,2	2,5	2,3	220	328,10 €
BAB16-17/AM	8,4	4,5	4,2	223	336,27 €

**Depending on availability*

(1)For a quintuple safety factor

Technical information



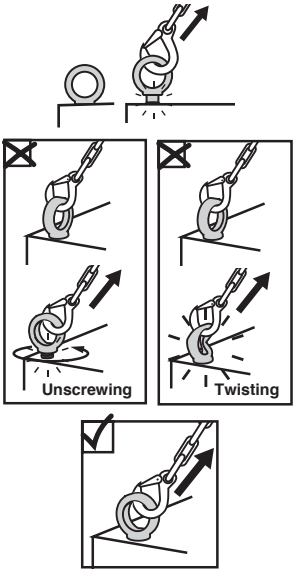


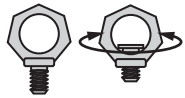
Rings made in house present a high risk of breaking, danger!



Liftin ring DIN 580/582

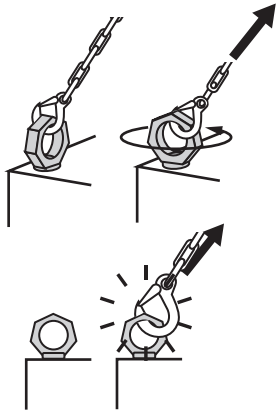
The ring must be fully screwed in and the load lifted from the correct direction or there is a high risk of breakage.





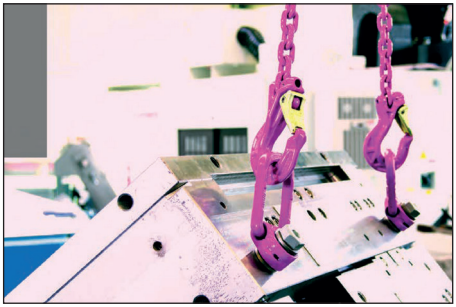
Swivelling lifting ring

Under load conditions, a swivel ring will adjust to the correction orientation and not become unscrewed.



Typical application









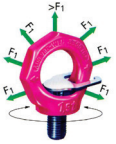


Male swivelling lifting rings

VRSF RUD®

Swivelling eye ring

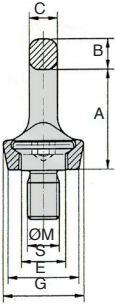
- **With its distinctive star shape, this ring is clearly distinguishable from standard DIN580 lifting rings**
- Colour : Pink epoxy powder coating, vibrant/fluorescent
- Inherently safe, required tightening torque can be achieved by hand, no torque spanner required

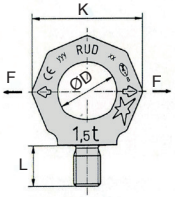


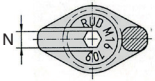
4 Suitable for lifting in any direction

Factor of safety = 4









IN STOCK*
Otherwise contact us

CE

DISCOUNTS

Qty	1+	5+	10+	15+
Disc.	List	-3%	-6%	On request

Part number	SWL	ØM	A	B	C	ØD	E	G	K	L	N	S	Weight (kg)	Price each 1 to 4
VRS-F-M6	0,10t	M6	28	9	7	20	23	28	37	9	6	13	0,07	74,85 €
VRS-F-M8	0,30t	M8	35	11	9	25	25	30	47	12	6	16,3	0,12	61,84 €
VRS-F-M10	0,40t	M10	35	11	9	25	25	30	47	15	6	16,3	0,12	61,84 €
VRS-F-M12	0,75t	M12	42	13	10	30	30	34	56	18	8	19,8	0,19	76,31 €
VRS-F-M14	0,75t	M14	42	13	10	30	30	34	56	18	8	19,8	0,22	88,05 €
VRS-F-M16	1,50t	M16	49	15	13	35	36	40	65	24	10	23,5	0,36	88,05 €
VRS-F-M18	1,50t	M18	49	15	13	35	36	40	65	24	10	23,5	0,37	103,87 €
VRS-F-M20	2,30t	M20	58	17	16	40	41	50	76	30	12	29,3	0,60	116,52 €
VRS-F-M22	2,30t	M22	58	17	16	40	41	50	76	30	12	29,3	0,62	132,85 €
VRS-F-M24	3,20t	M24	70	20	19	49	51	60	92	36	14	35	1,06	154,95 €
VRS-F-M27	3,20t	M27	70	20	19	49	51	60	92	36	14	35	1,08	180,00 €
VRS-F-M30	4,50t	M30	87	26	24	60	66	75	114	45	17	44	2,08	242,58 €

*Depending on availability - Dimensions in mm

Male swivelling lifting rings

- **Marking :** Clear indication of maximum load for the least favourable lifting direction F (not permitted for DIN 580 lifting rings) . Also the SWL in the format supplied (in lbs). Marking on the ring : RUD, model (eg : VRS), CE, H1 traceability code for ring and thread. On the thread : Dimension M, RUD and T code
- Forged from 1.6541 steel, tempered and 100% electromechanically tested for cracks according to EN 1677-1
- Manufactured in Germany, 100% tested
- **Swivelling lifting ring VRS-F**
- For installation by hand, no tools required
- **Safety coefficient 4**
  Threaded part > steel 1.0037 (acc EN 10025) or E24-2 (acc NF A 35-501). Countersink of threaded hole = nominal thread diameter. When assembling, check that the thread is fully screwed in as far as its base. The load must be in contac the full surface of the base. When assembled the VRS rin be able to rotate through 360°. The bolting surface F mu completely flat.
- Before lifting begins, adjust to the direction of lift.
- Components are patented, European patent EP 654 611
- Captive hexagonal headed screw, 100% tested for cracks the flat spanner into the hexagonal screw to tighten or l the screw by hand. Then remove the spanner.
- When tightening the screw with the spanner or an Allen apply a consistent force. Do not use an extension.



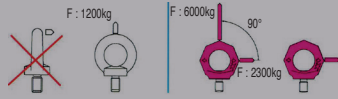
Conforms to European Directive 98/37/CE




VRS-F fixed


swivelling

Comparison



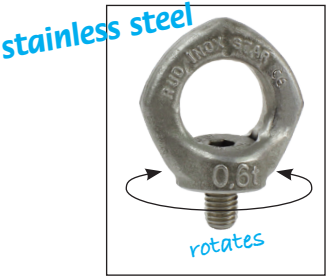
- **Attention :** DIN 580 style lifting rings must always be fully screwed in and never subjected to bending or transversal loads ! For any lifting operation using 2 or more cables, the lifting ring must be adjusted to the direction of pull.
This is only possible with the VRS which can be adjusted to any direction even when completely screwed in.
Attention: Read the instruction notice carefully.

We retain the right to modify technical information when necessary.

Male swivelling lifting rings stainless steel

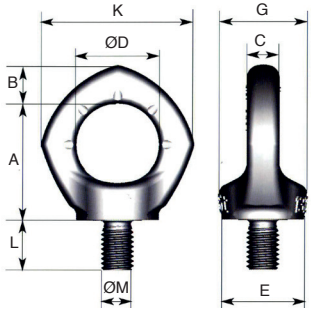
VRSss RUD Rotating eye ring

- **Distinctive pentagonal shape clearly distinguishes it from DIN 580 lifting rings**
- Material :
  Ring is forged from 1.4462 stainless steel
- Ring and screw are 100% tested for cracks
- Factor of safety 4
- Blind holes should be drilled sufficiently deep that the base of the ring touches the surface. Screw in the ring (without using any additional fittings), into the piece to be lifted so that the underside of the hexagonal screw is against the surface of the load.
- When assembling, verify that the base of the internal hexagonal screw is in contact with the surface of the load. In case of shocks or vibrations, especially when the load is carried by a screw not fully tightened, there is a severe of risk of the ring becoming unscrewed.
- When fully tightened, the ring must be able to turn through 360°
- Before lifting, adjust the lifting ring to the direction of the applied force



Info

- Special captive hexagonal screw
- Conforms to European Directive 98/37/CE
- The nominal SWL engraved on the ring is valid for pulling in all directions





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Otherwise contact us

CE

DISCOUNTS

Qty	1+	5+	10+	15+
Disc.	List	-3%	-6%	On request

Part number	SWL	ØM	A	B	C	ØD	E	G	K	L	SW	Weight (kg)	Price each 1 to 4
VRS-M12/SS	0,5t	M12	43	14	12	30	30	32	56	18	8	0,19	133,23 €
VRS-M16/SS	1t	M16	50	16	14	35	36	38	65	24	10	0,31	150,50 €
VRS-M20/SS	2t	M20	58	19	16	40	43	47	74	30	12	0,53	185,42 €
VRS-M24/SS	2,5t	M24	70	24	19	48	51	56	92	36	14	0,92	265,28 €

*Depending on availability - Dimensions in mm

Female swivelling lifting rings

Rotating eye ring

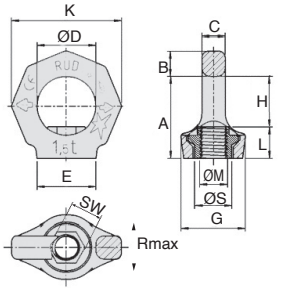
RUD® VRM



- **When considering the VRM (Female lifting ring), please also read the information on the VRS.**
- Captive nut, 100% tested for cracks
- The male thread must be in contact with 100% of the thread of the nut. During assembly verify that load is in contact with the full surface of the base of the VRM nut.
- The values of load given are only valid when the recommended male thread (category 10.9 minimum) is used.
- When fully screwed in, the ring must be able to rotate through 360°.
- **Attention**: Read the instruction notice carefully.

Info

- Conforms to European Directive 98/37/CE
- The nominal SWL engraved on the ring is valid for pulling in all directions



4 Suitable for lifting in any direction
Factor of safety = 4

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Otherwise contact us

CE

DISCOUNTS

Qty	1+	5+	10+	15+
Disc.	List	-3%	-6%	On request

Part number	SWL	ØM	A	B	C	ØD	E	G	H	K	L	Rmax	ØS	SW	Weight (kg)	Price each 1 to 4
VRM-M6	0,1t	M6	28	9	7	20	23	28	17	37	11	16	13	9	0,05	93,56 €
VRM-M8	0,3t	M8	35	11	9	25	25	30	21	47	14	21	16,3	12	0,10	70,83 €
VRM-M10	0,4t	M10	35	11	9	25	25	30	21	47	14	21	16,3	12	0,10	83,80 €
VRM-M12	0,75t	M12	42	13	10	30	30	34	25	56	17	24	19,8	14	0,20	90,08 €
VRM-M16	1,5t	M16	49	15	13	35	36	40	31	65	21	30	23,6	19	0,30	115,26 €
VRM-M20	2,3t	M20	58	17	16	40	41	50	35	76	23	37	29,3	24	0,50	131,73 €
VRM-M24	3,2t	M24	70	20	19	49	51	60	41	92	29	45	35,2	30	0,90	163,70 €
VRM-M30	4,5t	M30	87	26	24	60	66	75	51	114	36	56	44	36	1,50	229,60 €

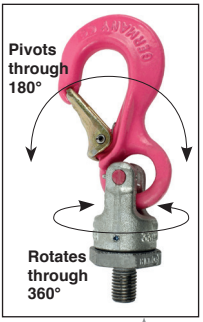
*Depending on availability - Dimensions in mm

Universal threaded lifting hook

PPS RUD

Base rotates through 360°

- ***Universal lifting hook for all applications.***
- *Suitable for use with cables, round or synthetic slings and chains*
- *Double ball bearings allows for loads to turn or tilt*
- *Visual overload indication on hook*
- *Hook and latched manufactured from forged steel and 100% crack tested*
- *Hook has a pink thermochromic finish (High visibility)*



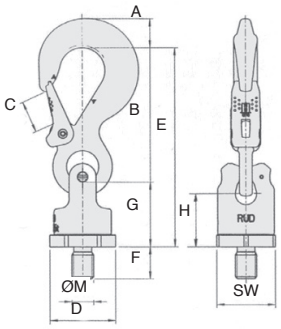
Option

- *Can be supplied with a longer thread and nut for use with a through hole or for mounting on lighter metals such as aluminium*

Info

- *Conforms to EU Directive 98/37/CE*
- *Load capacity doesn't change with load direction*





4 Suitable for lifting in any direction

Factor of safety = 4

CE

DISCOUNTS

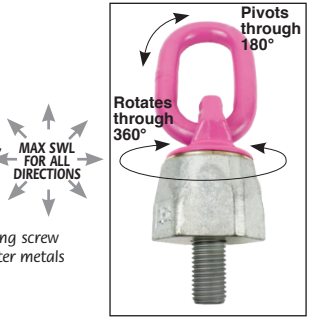
Qty	1+	5+	10+	15+
Disc.	List	-3%	-6%	On request

Part number	Load SWL (t)	ØM	A	B	C	D	SW	F	G	E	Weight (kg)	Tightening torque (Nm)	Stock*	Price each 1 to 4
PPS-M12	0,63	M12	13	75	18	40	36	18	41	116	0,4	10	✔	172,67 €
PPS-M16	1,5	M16	20	97	25	46	41	24	50	146	0,9	30	✔	217,36 €
PPS-M20	2,5	M20	28	126	30	61	55	30	61	187	1,7	70	-	272,54 €
PPS-M24	4,0	M24	36	150	35	78	70	36	77	227	3,5	150	-	383,11 €
PPS-M30	5,0	M30	37	174	40	95	85	45	93	267	7,5	225	-	559,06 €
PPS-M36	8,0	M36	49	208	48	100	90	54	102	310	9,2	410	-	884,35 €

**Depending on availability - Dimensions in mm*

Base rotates through 360° — RUD WBGv

- ***Lifting ring for loads liable to swivel or tilt.***
- *Mounted on ball bearings*
- *Can be rotated under load*
- *Easy installation, only a tapped hole required*
- *Heavy duty lifting ring, manufactured and tested to DIN EN1677-4*
- *Surface finish: Pink epoxy powder over zinc plating*
- *Thread is 100% electromagnetically tested for cracks, CORRUD-DT coated*
- *Pivots through 180°*

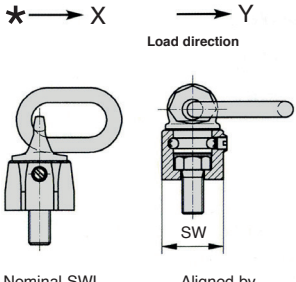


Option

- *Can be supplied with a longer thread and a mounting screw for use with a through hole or for mounting on lighter metals such as aluminium*

Info

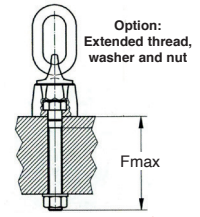
- *Conforms to EU Directive 98/37/CE*



Nominal SWL
Worst case lift direction

Aligned by hand, SWL increases

Vertical load
SWL values doubled





CE

IN STOCK*
Otherwise contact us

DISCOUNTS

Qty	1+	5+	10+	15+
Disc.	List	-3%	-6%	On request

Part number	Load SWL(t) X	Y	Z	ØM	A	B	C	D	E	F	F max.	G	SW	Weight (kg)	Price each 1 to 4
WBG-V-M8	0,3	0,4	0,6	M8	8	31	29	30	76	13	102	36	27	0,18	128,74 €
WBG-V-M10	0,45	0,6	0,9	M10	8	31	29	33,5	78	17	122	38	30	0,29	135,98 €
WBG-V-M12	0,6	0,75	1,2	M12	10	49	35	42	107	21	140	47	36	0,41	144,49 €
WBG-V-M16	1,3	1,5	2,6	M16	13	46	38	48	114	25	180	56	41	0,59	154,95 €
WBG-V-M20	2	2,5	4	M20	13	54	35	62	137	33	223	67	55	1,42	260,30 €
WBG-V-M24	3,5	4,0	7	M24	18	66	40	81	173	40	255	88	70	2,63	349,91 €
WBG-V-M30	5	6,0	10	M30	22	90	50	99	221	50	330	106	85	5,09	466,97 €

**Depending on availability - Dimensions in mm*

Rotating lifting ring

VLBG RUD® Base rotates through 360°

- **Bolt on arched lifting ring, wider opening**
- Rotates through 360° for easy alignment to lifting direction
- Clamping spring holds the suspension ring in the requested position and reduces noise
- Surface finish: Pink thermochromic coating offers hi wear/corrosion resistance
- Operating instructions: see next page



Standard

With longer thread and nut



Option

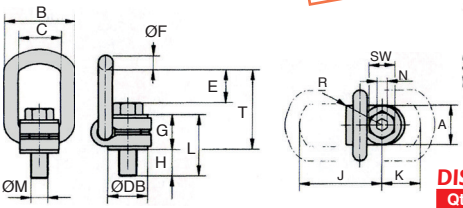
- Can be supplied with a longer thread and a mounting screw for use with a through hole or for mounting on lighter metals such as aluminium

Info.

- Conforms to machine Directive 2006/42/CE

4 Suitable for lifting in any direction
Factor of safety = 4

BG certified
EMI OFB 005151



DISCOUNTS

Qty	1+	5+	10+	15+
Disc.	List	-3%	-6%	On request

Part number	SWL (t)	A	B max.	C	E	ØF	G	H stand.	H max.	J
VLBG-M8	0,63	30	54	34	40	10	29	11	76	75
VLBG-M10	0,90	30	54	34	39	10	29	15	96	75
VLBG-M12	1,35	32	54	34	38	10	29	18	116	75
VLBG-M16	2,00	33	56	36	39	13,5	36	22	149	86
VLBG-M20	3,50	50	82	54	55	16,5	43	32	187	113
VLBG-M24	4,50	50	82	54	67	18	43	37	222	130
VLBG-M30	6,70	60	103	65	67	22,5	61	49	279	151

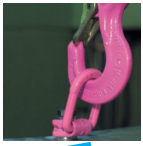
Part number	K	L stand.	L max.	ØM	N	SW	R	T	ØDB	Max torque (Nm)	Weight (kg)	Stock*	Price each 1 to 4
VLBG-M8	45	40	105	M8	5	13	32	75	24	30	0,3	✔	126,50 €
VLBG-M10	45	44	125	M10	6	17	32	75	24	60	0,32	✔	124,25 €
VLBG-M12	45	47	145	M12	8	19	32	75	26	150	0,33	✔	126,50 €
VLBG-M16	47	58	185	M16	10	24	38	85	30	150	0,55	✔	135,23 €
VLBG-M20	64	75	230	M20	12	30	48	110	45	400	1,3	✔	154,73 €
VLBG-M24	78	80	265	M24	14	36	48	125	45	760	1,5	-	166,20 €
VLBG-M30	80	110	340	M30	17	46	67	147	60	1000	3,3	-	301,99 €

*Depending on availability - Dimensions in mm

Rotating lifting ring

Base rotates through 360°

RUD® VLBG







- ***The ring, thread and nut are all certified and are 100% tested for cracks***
- *Metric versions have* ***a universal hexagonal*** *(external and internal) head that allows use of common tools.*
- ***Multiple surface coatings for increased protection:*** *the special CORRUD-DT (RUD patent) pre-coat guarantees* ***anti corrosion protection 20 times higher*** *than galvanising.*
  **except for the cut surface of any shortened threads*
- ***Screwed part "H" is threaded along entire length***
- ***Ensure that the mating surface (R) is truly flat. When fully tightened, the ring must be able to rotate through 360°.***
- ***The lifting ring should be aligned in the direction of lift and be able to move freely. It should not be any edge as a support.***
  Do not rotate the ring whilst under load.
- *Only for use by trained personnel and strictly in accordance with local lifting safety regulations.*

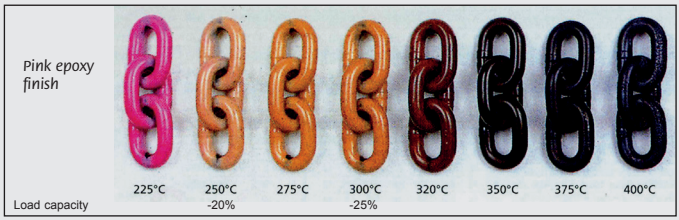


Why are RUD lifting rings "pink"?

Some RUD lifting rings have a patented pink finish. This vibrant fluorescent coating is heat sensitive and will change colour as the temperature rises.

Initially pink, as the temperature increases the colour will change to beige, then brown and finally black.

If the ring is black and there are blisters, a temperature of 400°C has been exceeded.
This implies a reduction in the carrying capacity and maximum working temperature.



Folding lifting ring, for welding

VLBS RUD®

Central anchorage

- **With positioning spring**
- 2 protective lugs improve the locating of the lifting hook and give added protection to the positioning spring. The support effect is increased (useful when load is side loaded or at 90° or when surfaces to be welded are not flat).
- Pink thermochromic powder coating, vibrant/fluorescent
- High dynamic and static resistance
- Mounting bracket is forged from steel alloy (S355J2+N) which is both strong and easy to weld.
- SWL is clearly indicated
- Ring profile conforms to the welding requirements of DIN18800 (welding instructions supplied with the product). Weld positions (closed, HV) ensure resistance to corrosion and allows the ring to be used outside.



4 Suitable for lifting in any direction

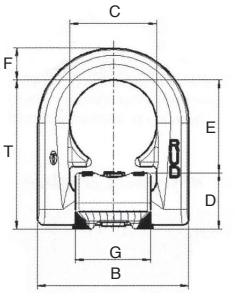
Factor of safety = 4

Advantages

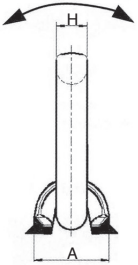
- Integrated spring greatly reduces induced noise and wear due to friction

Info

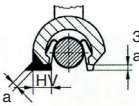
- Conforms to European Directive 98/37/CE
- The nominal SWL indicated on the ring is valid for lifting in any direction
- The ring should not be welded
- Welding to be carried out be suitably qualified personnel
- **Attention**: Read the instruction notice carefully



Pivots through 180°



BG certified



Weld positions

DISCOUNTS

Qty	1+	5+	10+	15+
Disc.	List	-3%	-6%	On request

Part number	SWL (t)	A	B	C	D	E	F	G	H	T	Weight (kg)	Weld size	Price each 1 to 4
VLBS-1	1,5	33	66	38	25	40	14	33	14	65	0,35	HV 5+ a 3	47,37 €
VLBS-2	2,5	36	77	45	27	47	16	40	14	72	0,53	HV7 + a 3	49,84 €
VLBS-4	4,0	42	87	51	31	52	18	46	16	83	0,76	HV 8 + a 3	54,12 €
VLBS-6	6,8	61	115	67	44	73	24	60	22	117	1,90	HV 12 + a 4	114,78 €
VLBS-10	10,0	75	129	67	55	71	26,5	60	26	126	2,76	HV 16 + a 4	163,70 €

Dimensions in mm

Folding lifting ring, for welding

Dual anchorage

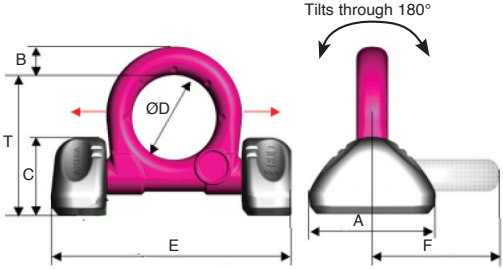
RUD VRBS

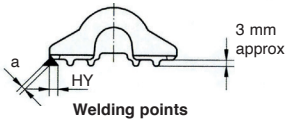
- **2 mounting points for a better distribution of applied forces**
- High dynamic and static strength
- Low profile
- SWL clearly marked
- Mounts manufactured from S355J2+N steel alloy
- Corrosion resistant epoxy coating



Info.

- Ring should not be welded
- Welding to be carried out by suitably qualified personnel
- Ring profile conforms to the welding requirements of DIN18800 (welding instructions supplied with the product)
- Position of welding positions (closed, HV) ensures corrosion resistance and renders the ring suitable for use outside.





Welding points

DISCOUNTS

Qty	1+	5+	10+	15+
Disc.	List	-3%	-6%	On request

Part number	SWL (t)	A	B	C	ØD	E	F	T	Weight (kg)	Weld side	Price each 1 to 4
VRBS-4	4,0	62	14	28	48	135	71	65	0,8	HY 4 + a 3	58,36 €
VRBS-6	6,7	88	20	39	60	170	92	84	1,6	HY 5,5 + a 3	102,56 €
VRBS-10	10,0	100	22	46	65	195	100	95	2,6	HY 6 + a 4	171,93 €
VRBS-16	16,0	130	30	57	90	263	134	127	5,53	HY 8,5 + a 3	309,46 €
VRBS-31	31,5	160	42	79	130	375	195	178	15,6	HY 18 + a 4	750,79 €

Dimensions in mm

ROUNDED END FEATHER KEY



p.491

CIRCLIP



p.492

SELF LOCKING COUNTER NUT



p.495

HITCH PIN



p.497

LINCH PIN



p.498

LOCKING PIN



p.501

FIXING

P. 486-533

SPRING PIN



p.502

HEXAGONAL SPACER



p.516

THREADED STUD



p.529

U-BOLT



p.532

Buying guide

Fixing

Circlips

Keys






Part number	**CX / CY**	**BFA**	**PAL**	**KK**	**KS**
Description	external or internal	external	safety nut	rectangular	bar
Standard	DIN 471 DIN 472	DIN 6795	DIN 7967	DIN 6885	-
Characteristic	snap ring for shaft or bore	snap ring for shaft	axial shaft lock	form A	to be cut to the desired length
Material	**stainless steel**	**stainless steel**	**stainless steel**	steel or **stainless steel**	steel or **stainless steel**
Quality index	☆☆	☆☆	☆☆	☆☆	☆☆
Price	€	€	€	€	€€€
Pages	1 **p.492**	1 **p.494**	1 **p.495**	1 **p.490**	1 **p.489**

Spacer







Part number	**HS**	**HSE**	**HSB**	**MPE**	**MPB**
Description	hexagonal	hexagonal	hexagonal	hexagonal	hexagonal
Characteristic	female / female M3 ➜ M4	female / female M2 ➜ M6	female / female M2 ➜ M6	male / female M3 ➜ M6	male / female M2 ➜ M5
Material	**stainless steel**	steel	**brass**	steel	**brass**
Quality index	☆☆☆	☆☆	☆☆	☆☆	☆☆
Price	€€€	€€	€€	€€	€€
Pages	1 **p.522**	1 **p.516**	1 **p.516**	1 **p.518**	1 **p.520**

Pin






BETA / BETAss	SRP	DHX	DP / DH
BETA pin	slotted	removable	cylindril
-	ISO 5752	DIN 7979D	DIN 6325 ISO 2338
manual assembly	good shear strength	easy extraction	relative positioning
steel or **stainless steel**	**stainless steel**	hardened steel	hardened steel **stainless steel**
☆	☆☆	☆☆☆	☆☆☆
€	€€	€€€	€
1 p.496	1 p.502	1 p.508	1 p.504






MPS	PLS	PLN	PLB
hexagonal	machined cylindrical	moulded cylindrical	machined cylindrical
male / female M3 ➜ M4			
stainless steel	**stainless steel**	polystyren choc	**brass**
☆☆☆	☆☆☆	☆	☆☆
€€€	€€€	€	€
1 p.523	1 p.514	1 p.510	1 p.512



FREE CATALOGUES

1, 2, 3 PRODUCTS SOLD INDIVIDUALLY

€ VOLUME DISCOUNT



MINIMUM ORDER 20€*



MADE TO MEASURE AVAILABLE



FAST QUOTES & ORDERS

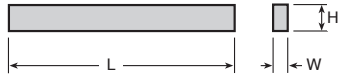
* Certain conditions apply - Deliveries to mainland France only

Steel C45 or Stainless steel 316

KS
KSss

- ***Long key bars to be cut to the desired length***
- *Conform to DIN6880*
  Material
  Steel C45 (Breaking strength 50kg/mm² mini)
  Stainless steel 316Ti (X6CrNiMoTi17-12-2)





DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-15%	On request

Part number		W	H	L	Stock*	Stock*	Price each 1 to 5	
Steel	Stainless	(h9)	(h11)	(mm)	Steel	Stainless	Steel	Stainless
KS2-500	-	2	2	500	✔		5,92 €	-
KS3-500	-	3	3	500	✔		5,10 €	-
KS4-500	-	4	4	500	✔		6,12 €	-
KS5-500	KS5-500/SS	5	5	500	✔	✔	7,86 €	57,97 €
KS6-500	KS6-500/SS	6	6	500	✔	-	10,05 €	59,75 €
KS8-500	-	8	8	500	✔		11,67 €	-
KS87-500	KS87-500/SS	8	7	500	✔	-	10,04 €	84,71 €
KS10-500	-	10	10	500	✔		17,06 €	-
KS108-500	KS108-500/SS	10	8	500	✔	-	14,28 €	118,32 €
KS12-500	-	12	12	500	-		22,37 €	-
KS128-500	KS128-500/SS	12	8	500	✔	-	12,83 €	142,40 €
KS14-500	-	14	14	500	-		26,41 €	-
KS149-500	KS149-500/SS	14	9	500	✔	-	16,84 €	193,80 €
KS1610-500	KS1610-500/SS	16	10	500	✔	-	21,36 €	240,16 €
KS1811-500	KS1811-500/SS	18	11	500	✔	-	26,44 €	287,13 €
KS2012-500	-	20	12	500	✔		30,05 €	-
KS2214-500	KS2214-500/SS	22	14	500	-	-	38,96 €	431,90 €
KS2514-500	-	25	14	500	✔		44,22 €	-

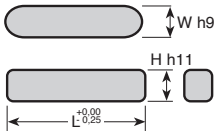
**Depending on availability - Dimensions in mm*

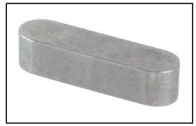
Rounded end parallel key DIN 6885 Ste DIN stock

KK

Steel

- ***Mechanical interlock***
- *Type A*
- *Keyway required in associated parts*
- *Material: Steel C45*
- ***Not sold individually, please contact us for details***





Options

- ***Also exists in stainless steel (316) and imperial sizes***
- *Also exists in Box* ***(tome 1 p.632)***

DISCOUNTS

Qty	1+	20+	50+	100+	200+	500+	1000+
Disc.	List	-45%	-55%	-65%	-70%	-80%	On request

Part number	W (h9)	H (h11)	L	Stock*	Price each 1 to 5
KK2-10	2	2	10	✔	1,00 €
KK2-14	2	2	14	✔	2,58 €
KK2-20	2	2	20	✔	1,34 €
KK2-22	2	2	22	✔	2,63 €
KK3-8	3	3	8	✔	0,65 €
KK3-10	3	3	10	✔	0,72 €
KK3-12	3	3	12	✔	0,69 €
KK3-15	3	3	15	✔	1,13 €
KK3-20	3	3	20	✔	0,74 €
KK3-30	3	3	30	✔	1,29 €
KK3-40	3	3	40	✔	1,13 €
KK4-8	4	4	8	✔	0,65 €
KK4-10	4	4	10	✔	0,76 €
KK4-12	4	4	12	✔	0,88 €
KK4-15	4	4	15	✔	0,99 €
KK4-16	4	4	16	✔	0,65 €
KK4-20	4	4	20	✔	1,18 €
KK4-25	4	4	25	✔	1,23 €
KK5-10	5	5	10	✔	0,76 €
KK5-12	5	5	12	-	2,30 €
KK5-14	5	5	14	✔	0,82 €
KK5-16	5	5	16	✔	0,79 €
KK5-18	5	5	18	✔	0,65 €
KK5-20	5	5	20	✔	1,30 €
KK5-25	5	5	25	✔	0,86 €
KK5-30	5	5	30	✔	1,04 €
KK5-35	5	5	35	✔	1,28 €
KK5-40	5	5	40	✔	1,80 €
KK5-50	5	5	50	✔	1,31 €
KK6-12	6	6	12	✔	0,97 €
KK6-14	6	6	14	✔	1,34 €
KK6-16	6	6	16	✔	0,89 €

Part number	W (h9)	H (h11)	L	Stock*	Price each 1 to 19
KK6-18	6	6	18	✔	0,89 €
KK6-20	6	6	20	✔	1,00 €
KK6-25	6	6	25	✔	1,22 €
KK6-28	6	6	28	✔	1,18 €
KK6-30	6	6	30	✔	1,54 €
KK6-32	6	6	32	✔	1,23 €
KK6-36	6	6	36	✔	1,13 €
KK6-45	6	6	45	✔	1,31 €
KK6-50	6	6	50	✔	1,81 €
KK8-7-18	8	7	18	✔	1,19 €
KK8-7-20	8	7	20	✔	1,19 €
KK8-7-22	8	7	22	✔	2,57 €
KK8-7-25	8	7	25	✔	1,22 €
KK8-7-30	8	7	30	✔	1,65 €
KK8-7-40	8	7	40	✔	1,59 €
KK8-7-45	8	7	45	✔	2,80 €
KK8-7-50	8	7	50	✔	1,87 €
KK10-8-20	10	8	20	✔	1,45 €
KK10-8-28	10	8	28	✔	1,78 €
KK10-8-30	10	8	30	✔	2,24 €
KK10-8-36	10	8	36	✔	3,66 €
KK10-8-40	10	8	40	✔	2,70 €
KK10-8-45	10	8	45	✔	2,05 €
KK10-8-50	10	8	50	✔	2,75 €
KK12-8-36	12	8	36	✔	2,93 €
KK12-8-40	12	8	40	✔	2,61 €
KK12-8-45	12	8	45	✔	2,80 €
KK12-8-50	12	8	50	✔	3,18 €
KK12-8-56	12	8	56	-	2,80 €
KK12-8-60	12	8	60	✔	3,74 €
KK14-9-50	14	9	50	✔	4,11 €
KK14-9-70	14	9	70	✔	5,61 €

**Depending on availability - Dimensions in mm*

Rounded end parallel key DIN 6885

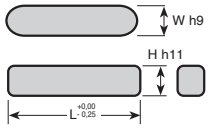
Stainless steel 316 Ti

KKss

- ***Mechanical interlock***
- *Type A*
- *Keyway required in associated parts*
- *Material: Stainless steel 316Ti (60 daN/mm²)*
- ***Not sold individually, please contact us for details***
- *Also exists in Box* **(tome 1 p.632)**

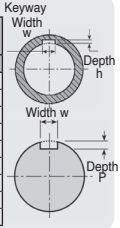
stainless steel





Designer'note

Bore or shaft diameter		Keyway (mm)		
from Ø to Ø (inclusive)		W	h	p
Ø6	Ø8	2	1,07	1,25
Ø8	Ø10	3	1,50	1,85
Ø10	Ø12	4	1,86	2,55
Ø12	Ø17	5	2,35	3,05
Ø17	Ø22	6	2,83	3,55
Ø22	Ø30	8	3,34	4,10
Ø30	Ø38	10	3,34	5,10
Ø38	Ø44	12	3,35	5,10
Ø44	Ø50	14	3,80	5,50



DISCOUNTS

Qty	1+	6+	20+	50+	100+	200+
Disc.	List	-15%	-45%	-55%	-65%	On request

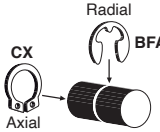
Part number	Width W (h9)	Height H (h11)	Length L	Stock*	Price each 1 to 5 parts
KK2-20SS	2	2	20	✔	6,41 €
KK3-10SS	3	3	10	✔	2,25 €
KK3-20SS	3	3	20	✔	2,46 €
KK4-10SS	4	4	10	✔	2,76 €
KK4-12SS	4	4	12	✔	1,70 €
KK4-18SS	4	4	18	✔	2,82 €
KK4-20SS	4	4	20	✔	3,03 €
KK4-25SS	4	4	25	✔	3,20 €
KK5-10SS	5	5	10	✔	2,94 €
KK5-20SS	5	5	20	✔	3,50 €
KK5-25SS	5	5	25	✔	3,72 €
KK5-30SS	5	5	30	✔	4,21 €
KK6-10SS	6	6	10	✔	3,50 €
KK6-20SS	6	6	20	✔	4,19 €
KK6-25SS	6	6	25	✔	4,73 €
KK6-30SS	6	6	30	✔	5,44 €
KK8-7-20SS	8	7	20	✔	5,68 €
KK8-7-25SS	8	7	25	✔	6,41 €
KK8-7-30SS	8	7	30	✔	7,39 €
KK8-7-35SS	8	7	35	✔	8,05 €
KK10-8-20SS	10	8	20	✔	7,62 €
KK10-8-25SS	10	8	25	✔	8,86 €
KK10-8-30SS	10	8	30	✔	10,34 €
KK10-8-35SS	10	8	35	✔	11,31 €
KK12-8-20SS	12	8	20	-	12,33 €
KK12-8-25SS	12	8	25	-	12,26 €
KK12-8-30SS	12	8	30	✔	12,33 €
KK12-8-35SS	12	8	35	-	13,27 €

**Depending on availability - Dimensions in mm*

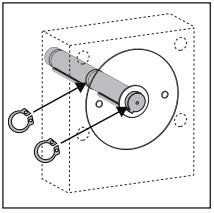
External circlip DIN 471

CXs — Shaft mounted locking ring

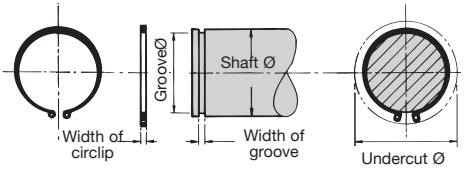
- ***Flexible ring for preventing axial movement of a shaft***
- *Special pliers required for mounting (not supplied)*
- *Material: Stainless steel A2*
- *Corrosion resistant*
- *Working temperature: -20°C to +200°C (300°C occasionally)*
- *Sold by the packet*







Typical application



DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-20%	On request

Part number	Shaft Ø	Circlip width	Groove Ø	Groove width	Undercut Ø	Qty. per packet	Stock*	Price per packet
CX-4S/B	4	0,40	3,80	0,50	8,60	200	✔	31,16 €
CX-5S/B	5	0,60	4,80	0,70	10,30	200	✔	33,60 €
CX-6S/B	6	0,70	5,70	0,80	11,70	200	✔	26,16 €
CX-7S/B	7	0,80	6,70	0,90	13,50	200	✔	35,35 €
CX-8S/B	8	0,80	7,60	0,90	14,70	200	✔	27,55 €
CX-9S/B	9	1,00	8,60	1,10	16,00	200	-	31,89 €
CX-10S/B	10	1,00	9,60	1,10	17,00	100	✔	17,37 €
CX-12S/B	12	1,00	11,50	1,10	19,00	100	✔	28,95 €
CX-14S/B	14	1,00	13,40	1,10	21,40	100	✔	31,56 €
CX-15S/B	15	1,00	14,30	1,10	22,60	100	✔	35,76 €
CX-16S/B	16	1,00	15,20	1,10	23,80	100	✔	29,90 €
CX-17S/B	17	1,00	16,20	1,10	25,00	100	✔	31,08 €
CX-18S/B	18	1,20	17,00	1,30	26,20	100	✔	48,81 €
CX-20S/B	20	1,20	19,00	1,30	28,40	100	✔	57,53 €
CX-22S/B	22	1,20	21,00	1,30	30,80	50	✔	43,94 €
CX-24S/B	24	1,20	22,90	1,30	33,20	50	✔	51,29 €
CX-25S/B	25	1,20	23,90	1,30	34,20	50	✔	72,41 €
CX-26S/B	26	1,20	24,90	1,30	35,50	50	✔	59,09 €
CX-30S/B	30	1,50	28,60	1,60	40,60	50	✔	65,47 €
CX-35S/B	35	1,50	33,00	1,60	47,00	25	✔	52,42 €

**Depending on availability - Dimensions in mm*

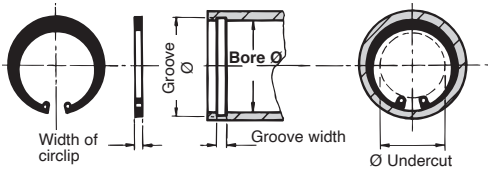
Internal circlip DIN 472

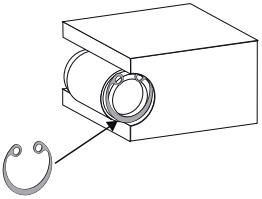
Bore mounted locking ring

CYs

- ***Flexible ring for preventing axial movement of a bored component***
- *Special pliers required for mounting (not supplied)*
- *Material: Stainless steel A2*
- *Corrosion resistant*
- *Working temperature: -20°C to +200°C (300°C occasionally)*
- *Sold by the packet, quantity depends on size*







DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-20%	On request

Part number	Bore Ø	Circlip width	Groove Ø	Groove width	Undercut Ø	Qty. per packet	Stock*	Price per packet
CY-10S/B	10	1,00	10,40	1,10	3,30	200	-	32,11 €
CY-11S/B	11	1,00	11,40	1,10	4,10	100	-	53,82 €
CY-12S/B	12	1,00	12,50	1,10	4,90	100	✔	21,05 €
CY-13S/B	13	1,00	13,60	1,10	5,40	100	-	On request
CY-14S/B	14	1,00	14,60	1,10	6,20	100	-	24,39 €
CY-15S/B	15	1,00	15,70	1,10	7,20	100	-	27,68 €
CY-16S/B	16	1,00	16,80	1,10	8,00	100	✔	23,47 €
CY-18S/B	18	1,00	19,00	1,10	9,40	100	-	26,45 €
CY-20S/B	20	1,00	21,00	1,10	11,20	100	✔	40,52 €
CY-22S/B	22	1,00	23,00	1,10	13,20	50	✔	22,55 €

**Depending on availability - Dimensions in mm*

Shaft locking circlip

BFA

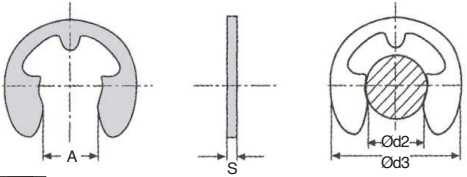
Ring type E

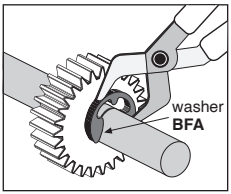
- **Conforms to DIN 6799**
- Stainless steel



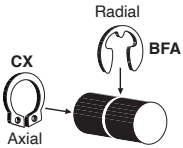
Advantages

- Can be fitted to a smooth shaft or in a groove (preferred)
- Can either be fitted axially or radially
- Easily removed using a screwdriver





Typical application



DISCOUNTS

Qty	1+	6+	11+
Disc	List	-10%	On request

Part number	Ød2	Shaft Ø	Ød3 max	A	S	Quantity per box	Stock*	Price each 1 to 5
BFA-1.2/B	1,2	1,4 - 2,0	3,25	1,01	0,3	1000	✔	31,93 €
BFA-1.5/B	1,5	2,0 - 2,5	4,25	1,28	0,4	1000	✔	33,84 €
BFA-1.9/B	1,9	2,5 - 3,0	4,80	1,61	0,5	1000	✔	36,11 €
BFA-2.3/B	2,3	3,0 - 4,0	6,30	1,94	0,6	1000	✔	39,55 €
BFA-3.2/B	3,2	4,0 - 5,0	7,30	2,70	0,6	1000	✔	46,39 €
BFA-4/B	4,0	5,0 - 7,0	9,30	3,34	0,7	1000	✔	49,06 €
BFA-5/B	5,0	6,0 - 8,0	11,30	4,11	0,7	1000	✔	70,39 €
BFA-6/B	6,0	7,0 - 9,0	12,30	5,26	0,7	1000	✔	79,88 €
BFA-7/B	7,0	8,0 - 11,0	14,30	5,84	0,9	500	✔	54,20 €
BFA-8/B	8,0	9,0 - 12,0	16,30	6,52	1,0	500	✔	74,67 €
BFA-9/B	9,0	10,0 - 14,0	18,80	7,63	1,1	500	-	85,98 €
BFA-10/B	10,0	11,0 - 15,0	20,40	8,32	1,2	500	✔	203,22 €
BFA-12/B	12,0	13,0 - 18,0	23,40	10,45	1,3	200	✔	78,41 €
BFA-15/B	15,0	16,0 - 24,0	29,40	12,61	1,5	200	-	115,74 €
BFA-19/B	19,0	20,0 - 31,0	37,60	15,92	1,75	100	-	164,31 €

*Depending of availability - Dimensions in mm

Self locking counter nut

For axial locking

PAL

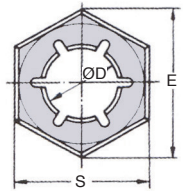
- **Self locking nut**
- Conforms to DIN 7967
- Stainless steel A2

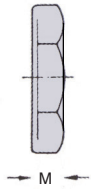
stainless steel

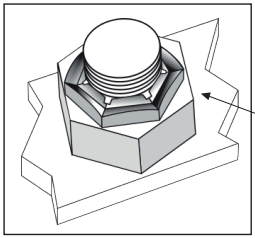


Advantages

- Self-locking on threaded shaft
- Can be used as a nut in cases of light axial force.
- Can be used as a lock nut with high resistance to vibration. Replaces ordinary lock nuts, cap nuts, or knurled/pin nuts.







Typical application

DISCOUNTS

Qty	1+	6+	11+
Disc.	List	-10%	On request

Part number	For thread ØD	M	E	S	Quantity per box	Stock*	Price each 1 to 5
PAL-M5/B	M5	5	8,79	8	500	-	19,03 €
PAL-M6/B	M6	6	11,05	10	200	-	9,03 €
PAL-M8/B	M8	8	14,38	13	100	✔	12,08 €
PAL-M10/B	M10	10	16,64	15	100	-	6,79 €
PAL-M12/B	M12	12	20,03	18	100	-	8,69 €

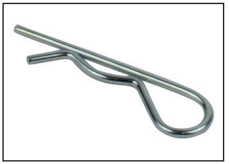
*Depending on availability - Dimensions in mm

Hitch pin

BETA

Zinc plated steel

- **Low cost clip**
- Made from zinc plated steel
- Supplied by the packet

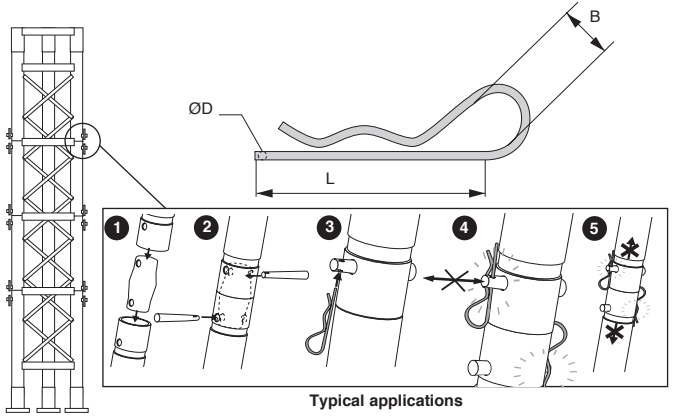


Advantages

- Manual assembly/disassembly

Infos

- Also exists in Box **(tome 1 p.634)**



Typical applications

DISCOUNTS

Qty	1+	5+	10+	21+
Disc.	List	-10%	-20%	On request

Part number	ØD	L	B	For shaft	Weight per 100 (kg)	Quantity per pack	Stock*	Price each 1 to 4
BETA-2/B	2	53	12	9-11	0,5	100	✔	8,67 €
BETA-2.5/B	2,5	52	10	11-13	0,6	100	✔	10,88 €
BETA-3/B	3	66	15	13-17	0,9	100	✔	14,00 €
BETA-4/B	4	83	22	17-20	2,3	100	✔	26,86 €
BETA-4.5/B	4,5	68	24	20-23	2,5	100	✔	35,71 €
BETA-5/B	5	100	23	23-26	3,9	100	✔	45,72 €
BETA-6/B	6	105	26	26-30	6,0	50	✔	33,10 €
BETA-7/B	7	125	26	30-34	9,1	25	-	44,66 €
BETA-8/B	8	142	29	34-45	13,6	25	-	55,88 €

**Depending on availability - Dimensions in mm*

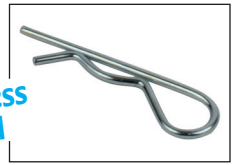
Hitch pin
BETA/SS

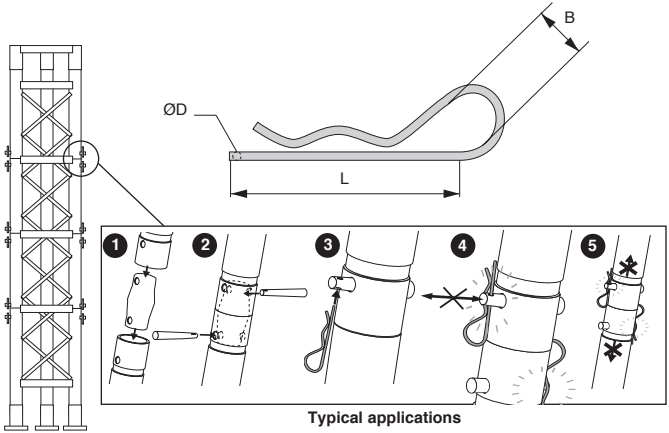
Stainless steel

- **Low cost clip**
- *Made from stainless steel AISI 304*
- *Supplied by the packet*

Advantages

- *Manual assembly/disassembly*





Typical applications

DISCOUNTS

Qty	1+	5+	10+	15+
Disc.	List	-10%	-20%	On request

Part number	ØD	L	B	Weight per 100 (kg)	Quantity per pack	Price each 1 to 4
BETA-2/SS/B	2	53	12	0,32	100	41,19 €
BETA-3/SS/B	3	66	15	0,88	50	36,75 €
BETA-4/SS/B	4	83	22	1,49	25	37,64 €
BETA-5/SS/B	5	100	23	3,62	20	51,28 €
BETA-6/SS/B	6	105	26	5,56	10	40,13 €

Dimensions in mm

Linch pin

GCA

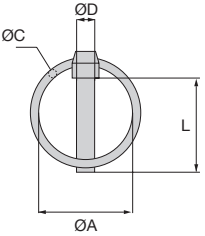
Zinc plated steel

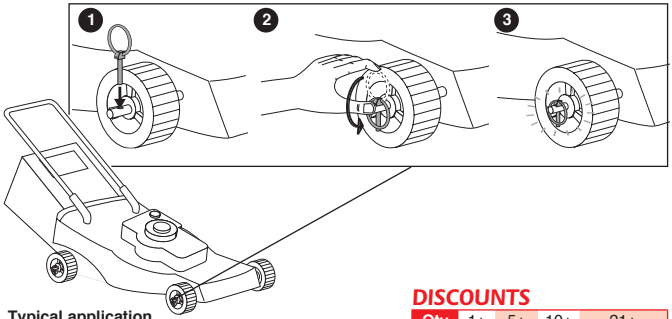
- **Low cost clip**
- Made from zinc dichromate steel
- Supplied by the packet



Advantages

- Manual assembly/disassembly





Typical application

DISCOUNTS

Qty	1+	5+	10+	21+
Disc.	List	-10%	-20%	On request

Part number	ØD	L	ØA	ØC	Weight per 100 (kg)	Quantity per pack	Stock*	Price each 1 to 4
GCA4.5-3/B	4,5	42	34	3	1,31	100	✔	42,50 €
GCA6-3.5/B	6	42	41	3,5	2,30	50	✔	21,86 €
GCA7-3.5/B	7	42	41	3,5	2,65	50	✔	22,21 €
GCA8-3.5/B	8	42	41	3,5	2,91	50	✔	25,66 €
GCA9-3.5/B	9	42	41	3,5	3,55	50	-	27,65 €
GCA10-3.5/B	10	42	41	3,5	4,27	50	✔	29,03 €
GCA11-3.5/B	11	42	41	3,5	4,77	50	-	30,46 €

*Depending on availability - Dimensions in mm

Tube linch pin

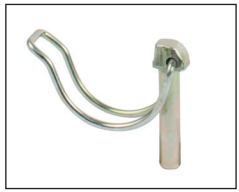
GCT

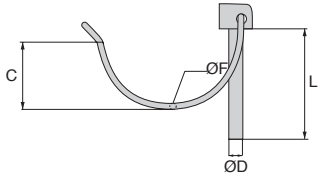
Zinc plated steel

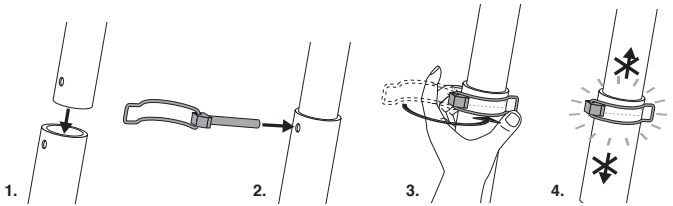
- **Low cost clip**
- *Made from zinc dichromate steel*
- *Supplied by the packet*

Advantages

- *Manual assembly/disassembly*







DISCOUNTS

Qty	1+	5+	10+	21+
Disc.	List	-10%	-20%	On request

Part number	ØD	L	C	ØF	For tube ØT	Weight per 100 (kg)	Qty per packet	Stock*	Price each 1 to 4
GCT4.5-40/B	4,5	40	18	3	38-39	1,7	50	✔	31,90 €
GCT6-32/B	6	32	18	3	30-31	2,0	50	✔	34,01 €
GCT6-45/B	6	45	22	3	43-44	2,6	50	✔	36,78 €
GCT8-40/B	8	40	18	3	38-39	3,5	50	✔	40,32 €
GCT8-45/B	8	45	22	3	43-44	3,8	50	✔	43,06 €
GCT8-50/B	8	50	25	3	48-49	4,0	50	✔	45,72 €
GCT8-60/B	8	60	28	3	58-59	4,3	50	✔	49,93 €
GCT10-40/B	10	40	18	3,2	37-38	5,0	25	✔	27,22 €
GCT10-50/B	10	50	25	3,2	47-48	5,8	25	✔	30,21 €
GCT10-60/B	10	60	28	3,2	57-58	6,3	25	✔	33,52 €

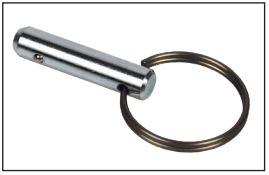
**Depending on availability - Dimensions in mm*

Fastening pin with ring

AFA

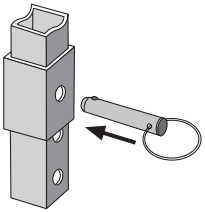
Steel

- **Ball pin**
- Quick and easy assembly of workpieces and other elements
- Double shear force (F) = S x τAB max
- Materials:
  Body - Chromed steel
  Ring - Stainless steel

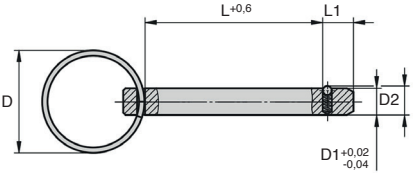


Advantages

- These fastening pins with rings are an economic alternative to interlocking safety fasteners.
- They are easier to use and cheaper than a BAB ball pin but offer a lower level of safety



Typical application



DISCOUNTS

Qty	1+	6+	10+	25+
Disc.	List	-5%	-10%	On request

Part number	ØD	ØD1	ØD2	L	L1	Double shear strength (kN)	Stock*	Price each 1 to 5
AFA6-15	23	6	6,5	15	7	22	✔	7,39 €
AFA6-20	23	6	6,5	20	7	22	✔	7,57 €
AFA6-30	23	6	6,5	30	7	22	✔	7,78 €
AFA6-40	23	6	6,5	40	7	22	✔	7,94 €
AFA8-30	28	8	8,8	30	8	28	✔	7,78 €
AFA8-40	28	8	8,8	40	8	28	✔	7,94 €
AFA8-50	28	8	8,8	50	8	28	✔	8,25 €

*Depending on availability - Dimensions in mm

Locking pin with interlocking safety latch

Steel

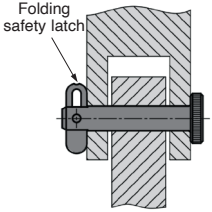
AFSE

- ***Allows easy and quick location of parts or workpieces requiring assembly***
- *Material:*
  Galvanized steel

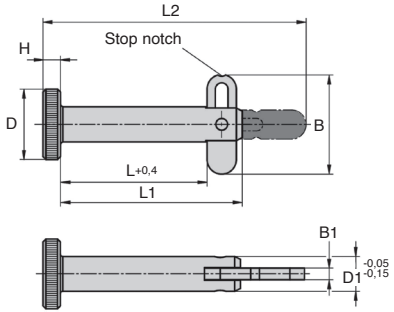


Advantages

- *The interlocking safety latch allows components with a large cross sectional area to be secured together*
- *In addition they absorb any axial movement*
- *Indexing slots in the safety latch are used to located the "Closed" and "Open" position*



Typical application



DISCOUNTS

Qty	1+	6+	10+	25+
Disc.	List	-5%	-10%	On request

Part number	ØD	ØD1	L	L1	L2	H	B	B1	Mounting hole H11	Shearing force double section max (kN)	Extraction force (N)	Price each 1 to 5
AFSE6-25	12	6	25	31	45	3	16,9	2	6	12	190	19,02 €
AFSE6-40	12	6	40	46	60	3	16,9	2	6	12	190	19,42 €
AFSE6-50	12	6	50	56	70	3	16,9	2	6	12	190	20,03 €
AFSE8-25	16	8	25	31	46	4	16,9	2	8	21	270	20,03 €
AFSE8-40	16	8	40	46	61	4	16,9	2	8	21	270	20,59 €
AFSE8-50	16	8	50	56	71	4	16,9	2	8	21	270	20,96 €

Dimensions in mm

Slotted spring pin ISO 8752

Sta ISO Stock

SRP

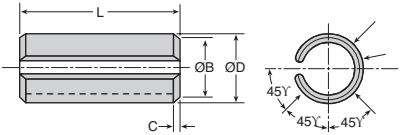
Stainless steel A1

- **For locking on part to another**
- Stress spread uniformly across width
- Absorbs shocks and vibrations
- For information on shear strength, please see technical information
- Material:
  Stainless steel A1



Info.

- **Sold by the packet**



DISCOUNTS

N° packets	1+	5+	10+	21+
Discount	List	-10%	-20%	On request

Part number	ØD expanded Nom. Ø	Min. Ø	Max. Ø	L	ØB	Chamfer C	Hole Ø Min.	Max.	Qty. per packet	Stock*	Price per packet
SRP1.5-6/B	1,5	1,70	1,80	6	1,40	0,50	1,50	1,60	100	-	10,42 €
SRP1.5-8/B	1,5	1,70	1,80	8	1,40	0,50	1,50	1,60	100	✔	11,12 €
SRP1.5-10/B	1,5	1,70	1,80	10	1,40	0,50	1,50	1,60	100	✔	11,34 €
SRP1.5-14/B	1,5	1,70	1,80	14	1,40	0,50	1,50	1,60	100	✔	12,09 €
SRP1.5-20/B	1,5	1,70	1,80	20	1,40	0,50	1,50	1,60	100	✔	14,41 €
SRP2-5/B	2,0	2,30	2,40	5	1,90	0,70	2,00	2,10	100	✔	11,66 €
SRP2-8/B	2,0	2,30	2,40	8	1,90	0,70	2,00	2,10	100	✔	10,42 €
SRP2-10/B	2,0	2,30	2,40	10	1,90	0,70	2,00	2,10	100	✔	12,09 €
SRP2-12/B	2,0	2,30	2,40	12	1,90	0,70	2,00	2,10	100	✔	11,34 €
SRP2-14/B	2,0	2,30	2,40	14	1,90	0,70	2,00	2,10	100	✔	12,89 €
SRP2-16/B	2,0	2,30	2,40	16	1,90	0,70	2,00	2,10	100	✔	13,67 €
SRP2-18/B	2,0	2,30	2,40	18	1,90	0,70	2,00	2,10	100	✔	14,02 €
SRP2-20/B	2,0	2,30	2,40	20	1,90	0,70	2,00	2,10	100	✔	14,41 €
SRP2-24/B	2,0	2,30	2,40	24	1,90	0,70	2,00	2,10	100	✔	16,75 €
SRP2-30/B	2,0	2,30	2,40	30	1,90	0,70	2,00	2,10	100	✔	19,81 €

*Depending on availability - Dimensions in mm

DISCOUNTS

N° packets	1+	5+	10+	21+
Discount	List	-10%	-20%	On request

Part number	ØD expanded Nom. Ø	Min. Ø	Max. Ø	L	ØB	Chamfer C	Hole Ø Min.	Max.	Qty. per packet	Stock*	Price per packet
SRP2.5-8/B	2,5	2,80	2,90	8	2,40	0,70	2,50	2,60	100	-	12,80 €
SRP2.5-10/B	2,5	2,80	2,90	10	2,40	0,70	2,50	2,60	100	✔	13,29 €
SRP2.5-16/B	2,5	2,80	2,90	16	2,40	0,70	2,50	2,60	100	✔	14,41 €
SRP2.5-20/B	2,5	2,80	2,78	20	2,40	0,70	2,49	2,60	100	-	15,46 €
SRP2.5-30/B	2,5	2,80	2,78	30	2,40	0,70	2,49	2,60	100	✔	17,63 €
SRP3-8/B	3,0	3,30	3,30	8	2,90	0,90	3,00	3,10	100	-	12,09 €
SRP3-10/B	3,0	3,30	3,30	10	2,90	0,90	3,00	3,10	100	✔	13,67 €
SRP3-12/B	3,0	3,30	3,30	12	2,90	0,90	3,00	3,10	100	✔	12,89 €
SRP3-14/B	3,0	3,30	3,30	14	2,90	0,90	3,00	3,10	100	-	15,03 €
SRP3-16/B	3,0	3,30	3,30	16	2,90	0,90	3,00	3,10	100	✔	13,88 €
SRP3-18/B	3,0	3,30	3,30	18	2,90	0,90	3,00	3,10	100	✔	16,01 €
SRP3-20/B	3,0	3,30	3,30	20	2,90	0,90	3,00	3,10	100	✔	16,56 €
SRP3-24/B	3,0	3,30	3,30	24	2,90	0,90	3,00	3,10	100	✔	19,08 €
SRP3-30/B	3,0	3,30	3,30	30	2,90	0,90	3,00	3,10	100	✔	19,08 €
SRP3-40/B	3,0	3,30	3,30	40	2,90	0,90	3,00	3,10	100	✔	23,68 €
SRP4-10/B	4,0	4,40	4,60	10	3,90	1,10	4,00	4,12	100	-	18,15 €
SRP4-12/B	4,0	4,40	4,60	12	3,90	1,10	4,00	4,12	100	✔	19,08 €
SRP4-16/B	4,0	4,40	4,60	16	3,90	1,10	4,00	4,12	100	✔	19,08 €
SRP4-20/B	4,0	4,40	4,60	20	3,90	1,10	4,00	4,12	100	✔	20,58 €
SRP4-24/B	4,0	4,40	4,60	24	3,90	1,10	4,00	4,12	100	✔	22,15 €
SRP4-26/B	4,0	4,40	4,60	26	3,90	1,10	4,00	4,12	100	-	23,68 €
SRP4-28/B	4,0	4,40	4,60	28	3,90	1,10	4,00	4,12	100	-	26,72 €
SRP4-30/B	4,0	4,40	4,60	30	3,90	1,10	4,00	4,12	100	✔	27,50 €
SRP4-35/B	4,0	4,40	4,60	35	3,90	1,10	4,00	4,12	50	-	On request
SRP4-40/B	4,0	4,40	4,60	40	3,90	1,10	4,00	4,12	50	✔	17,39 €
SRP4-45/B	4,0	4,40	4,60	45	3,90	1,10	4,00	4,12	50	-	18,57 €
SRP4-50/B	4,0	4,40	4,60	50	3,90	1,10	4,00	4,12	50	-	20,13 €
SRP5-10/B	5,0	5,40	5,60	10	4,85	1,30	5,00	5,12	50	-	11,20 €
SRP5-16/B	5,0	5,40	5,60	16	4,85	1,30	5,00	5,12	50	✔	12,42 €
SRP5-20/B	5,0	5,40	5,60	20	4,85	1,30	5,00	5,12	50	✔	15,87 €
SRP5-24/B	5,0	5,40	5,60	24	4,85	1,30	5,00	5,12	50	✔	16,12 €
SRP5-30/B	5,0	5,40	5,60	30	4,85	1,30	5,00	5,12	50	-	14,71 €
SRP5-35/B	5,0	5,40	5,45	35	4,85	1,30	5,00	5,12	50	-	On request
SRP5-40/B	5,0	5,40	5,45	40	4,85	1,30	5,00	5,12	50	✔	21,58 €
SRP5-50/B	5,0	5,40	5,45	50	4,85	1,30	5,00	5,12	50	✔	24,75 €
SRP6-20/B	6,0	6,40	6,70	20	5,85	1,50	6,00	6,12	50	✔	18,48 €
SRP6-30/B	6,0	6,40	6,70	30	5,85	1,50	6,00	6,12	50	✔	23,55 €
SRP6-40/B	6,0	6,40	6,70	40	5,85	1,50	6,00	6,12	50	✔	28,96 €
SRP6-50/B	6,0	6,40	6,70	50	5,85	1,50	6,00	6,12	50	✔	33,99 €
SRP8-30/B	8,0	8,50	8,80	30	7,80	2,00	8,00	8,15	25	-	16,90 €
SRP8-40/B	8,0	8,50	8,80	40	7,80	2,00	8,00	8,15	10	✔	10,07 €
SRP8-50/B	8,0	8,50	8,80	50	7,80	2,00	8,00	8,15	10	✔	11,62 €
SRP10-30/B	10,0	10,50	10,80	30	9,75	2,50	10,00	10,15	10	-	14,88 €
SRP10-40/B	10,0	10,50	10,80	40	9,75	2,50	10,00	10,15	10	-	On request
SRP10-50/B	10,0	10,50	10,80	50	9,75	2,50	10,00	10,15	10	-	On request

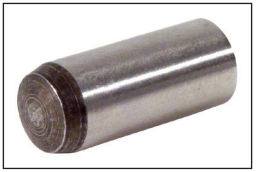
*Depending on availability - Dimensions in mm

Dowel pin DIN 6325

DH

Hardened steel

- ***For locking one part to another***
- *Relative positioning*
- *15° chamfer*
- *Material: hardened steel 100 Cr6 rectified 58-60HRc*
- *Conforms to DIN 6325 (ISO 8734)*
- *For information on shear strength, please see technical information*
- ***Sold by the packet***



Info.

- *Exist in box* ***(tome 1 p.636)***

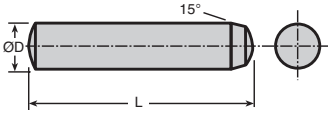
DISCOUNTS

Qty	1+	5+	10+	20+
Disc.	List	-20%	-30%	On request

Part number	ØD m6	Length L	Qty per packet	Stock*	Price per packet
DH1-5/B	1,0	5	100	✔	18,35 €
DH1-6/B	1,0	6	100	✔	17,96 €
DH1.5-5/B	1,5	5	100	✔	7,69 €
DH1.5-6/B	1,5	6	100	✔	7,71 €
DH1.5-8/B	1,5	8	100	✔	8,01 €
DH1.5-10/B	1,5	10	100	✔	8,35 €
DH2-6/B	2,0	6	100	✔	14,58 €
DH2-8/B	2,0	8	100	✔	8,39 €
DH2-10/B	2,0	10	100	✔	10,28 €
DH2-12/B	2,0	12	100	✔	16,97 €
DH2-14/B	2,0	14	100	✔	6,78 €
DH2-16/B	2,0	16	100	✔	9,79 €
DH2-30/B	2,0	30	100	✔	18,85 €
DH2.5-10/B	2,5	10	100	✔	6,89 €
DH2.5-12/B	2,5	12	100	✔	7,75 €
DH3-6/B	3,0	6	100	✔	5,69 €
DH3-8/B	3,0	8	100	✔	13,93 €
DH3-10/B	3,0	10	100	✔	21,42 €
DH3-12/B	3,0	12	100	✔	15,95 €
DH3-16/B	3,0	16	100	✔	7,30 €
DH3-18/B	3,0	18	100	✔	7,84 €
DH3-20/B	3,0	20	100	✔	13,10 €
DH3-24/B	3,0	24	100	✔	9,38 €
DH3-30/B	3,0	30	100	✔	11,30 €
DH3-32/B	3,0	32	100	✔	12,08 €
DH3-40/B	3,0	40	100	✔	14,81 €
DH4-6/B	4,0	6	100	✔	8,46 €
DH4-8/B	4,0	8	100	✔	6,88 €

Part number	ØD m6	Length L	Qty per packet	Stock*	Price per packet
DH4-10/B	4,0	10	100	✔	9,86 €
DH4-12/B	4,0	12	100	✔	7,70 €
DH4-14/B	4,0	14	100	✔	12,42 €
DH4-16/B	4,0	16	100	✔	12,56 €
DH4-18/B	4,0	18	100	✔	9,77 €
DH4-20/B	4,0	20	100	✔	14,31 €
DH4-28/B	4,0	28	100	✔	15,00 €
DH4-30/B	4,0	30	100	✔	14,70 €
DH4-32/B	4,0	32	100	-	15,40 €
DH4-40/B	4,0	40	100	✔	21,97 €
DH4-50/B	4,0	50	100	✔	25,72 €
DH4-60/B	4,0	60	100	✔	30,06 €
DH5-8/B	5,0	8	25	✔	5,21 €
DH5-10/B	5,0	10	25	✔	5,23 €
DH5-12/B	5,0	12	25	✔	5,31 €
DH5-14/B	5,0	14	25	✔	5,45 €
DH5-16/B	5,0	16	25	✔	5,61 €
DH5-20/B	5,0	20	25	✔	5,80 €
DH5-24/B	5,0	24	25	✔	6,10 €
DH5-26/B	5,0	26	25	✔	6,27 €
DH5-28/B	5,0	28	25	-	6,36 €
DH5-30/B	5,0	30	25	✔	6,46 €
DH5-36/B	5,0	36	25	✔	6,94 €
DH5-40/B	5,0	40	25	✔	7,15 €
DH5-50/B	5,0	50	25	✔	9,23 €
DH6-10/B	6,0	10	25	✔	5,69 €
DH6-12/B	6,0	12	25	✔	7,85 €
DH6-14/B	6,0	14	25	✔	8,23 €

**Depending on availability - Dimensions in mm*



DISCOUNTS

Qty	1+	5+	10+	20+
Disc.	List	-20%	-30%	On request

Part number	ØD m6	Length L	Qty per packet	Stock*	Price per packet
DH6-16/B	6,0	16	25	✔	5,90 €
DH6-18/B	6,0	18	25	✔	6,05 €
DH6-20/B	6,0	20	25	✔	7,05 €
DH6-24/B	6,0	24	25	✔	6,46 €
DH6-26/B	6,0	26	25	✔	6,74 €
DH6-28/B	6,0	28	25	✔	6,88 €
DH6-30/B	6,0	30	25	✔	7,04 €
DH6-36/B	6,0	36	25	-	7,50 €
DH6-40/B	6,0	40	25	✔	7,83 €
DH6-50/B	6,0	50	25	✔	8,99 €
DH6-60/B	6,0	60	25	✔	10,31 €
DH8-16/B	8,0	16	25	✔	11,11 €
DH8-18/B	8,0	18	25	✔	8,40 €
DH8-20/B	8,0	20	25	✔	8,45 €
DH8-24/B	8,0	24	25	✔	8,94 €
DH8-30/B	8,0	30	25	✔	9,71 €
DH8-40/B	8,0	40	25	✔	10,93 €
DH8-50/B	8,0	50	25	✔	12,44 €
DH8-80/B	8,0	80	25	✔	25,76 €
DH10-20/B	10,0	20	25	✔	9,85 €
DH10-26/B	10,0	26	25	✔	11,23 €
DH10-30/B	10,0	30	25	✔	13,34 €
DH10-36/B	10,0	36	25	-	15,44 €
DH10-40/B	10,0	40	25	-	14,21 €
DH10-45/B	10,0	45	25	✔	19,35 €
DH10-50/B	10,0	50	25	✔	16,11 €
DH10-60/B	10,0	60	25	✔	25,09 €
DH10-80/B	10,0	80	25	-	25,31 €
DH12-20/B	12,0	20	25	-	14,99 €
DH12-30/B	12,0	30	25	✔	41,64 €
DH12-40/B	12,0	40	25	✔	23,47 €

*Depending on availability - Dimensions in mm

Dowel pin ISO 2338

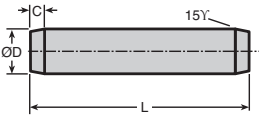
DP

Stainless steel A1

- **For locking one part to another**
- Relative positioning
- Material: stainless steel A1

Info.

- Sold by the packet





DISCOUNTS

No.pack	1+	5+	10+	20+
Disc.	List	-20%	-30%	On request

Part number	ØD m6	C	Length L	Qty per packet	Stock*	Price per packet
DP0.8-10/B	0,8	0,12	10	100	✔	14,75 €
DP1.0-4/B	1,0	0,15	4	100	✔	5,91 €
DP1.0-5/B	1,0	0,15	5	100	✔	6,21 €
DP1.0-6/B	1,0	0,15	6	100	✔	6,37 €
DP1.0-8/B	1,0	0,15	8	100	✔	7,20 €
DP1.0-10/B	1,0	0,15	10	100	✔	6,74 €
DP1.0-12/B	1,0	0,15	12	100	✔	6,89 €
DP1.5-5/B	1,5	0,23	5	100	✔	9,48 €
DP1.5-6/B	1,5	0,23	6	100	✔	6,89 €
DP1.5-8/B	1,5	0,23	8	100	✔	9,93 €
DP1.5-10/B	1,5	0,23	10	100	✔	7,11 €
DP1.5-12/B	1,5	0,23	12	100	✔	8,77 €
DP1.5-14/B	1,5	0,23	14	100	✔	11,08 €
DP1.5-16/B	1,5	0,23	16	100	✔	10,31 €
DP2.0-4/B	2,0	0,30	4	100	✔	6,89 €
DP2.0-5/B	2,0	0,30	5	100	✔	6,94 €
DP2.0-6/B	2,0	0,30	6	100	✔	11,53 €
DP2.0-8/B	2,0	0,30	8	100	✔	7,45 €
DP2.0-10/B	2,0	0,30	10	100	✔	9,96 €
DP2.0-12/B	2,0	0,30	12	100	✔	10,18 €
DP2.0-14/B	2,0	0,30	14	100	✔	8,57 €
DP2.0-16/B	2,0	0,30	16	100	✔	12,53 €
DP2.0-18/B	2,0	0,30	18	100	✔	12,81 €
DP2.0-20/B	2,0	0,30	20	100	✔	10,57 €
DP2.5-6/B	2,5	0,40	6	100	✔	8,33 €
DP2.5-8/B	2,5	0,40	8	100	✔	8,94 €
DP2.5-10/B	2,5	0,40	10	100	✔	11,78 €
DP2.5-12/B	2,5	0,40	12	100	✔	12,11 €
DP2.5-16/B	2,5	0,40	16	100	✔	11,33 €
DP2.5-20/B	2,5	0,40	20	100	-	On request
DP2.5-24/B	2,5	0,40	24	100	✔	14,31 €
DP3.0-5/B	3,0	0,45	5	100	✔	9,38 €
DP3.0-6/B	3,0	0,45	6	100	✔	15,60 €
DP3.0-8/B	3,0	0,45	8	100	✔	11,56 €
DP3.0-10/B	3,0	0,45	10	100	✔	13,39 €
DP3.0-12/B	3,0	0,45	12	100	✔	13,10 €

*Depending on availability - Dimensions in mm

Part number	ØD m6	C	Length L	Qty per packet	Stock*	Price per packet
DP3.0-14/B	3,0	0,45	14	100	✔	13,74 €
DP3.0-16/B	3,0	0,45	16	100	✔	14,16 €
DP3.0-18/B	3,0	0,45	18	100	✔	12,95 €
DP3.0-20/B	3,0	0,45	20	100	✔	13,62 €
DP3.0-24/B	3,0	0,45	24	100	✔	14,74 €
DP3.0-30/B	3,0	0,45	30	100	✔	22,00 €
DP4.0-6/B	4,0	0,60	6	100	✔	12,64 €
DP4.0-8/B	4,0	0,60	8	100	✔	13,53 €
DP4.0-10/B	4,0	0,60	10	100	✔	18,99 €
DP4.0-12/B	4,0	0,60	12	100	✔	14,53 €
DP4.0-14/B	4,0	0,60	14	100	✔	20,49 €
DP4.0-16/B	4,0	0,60	16	100	✔	27,77 €
DP4.0-18/B	4,0	0,60	18	100	✔	28,44 €
DP4.0-20/B	4,0	0,60	20	100	✔	22,36 €
DP4.0-24/B	4,0	0,60	24	100	✔	33,35 €
DP4.0-40/B	4,0	0,60	40	100	✔	34,55 €
DP4.0-50/B	4,0	0,60	50	100	✔	49,68 €
DP5.0-10/B	5,0	0,75	10	25	✔	5,45 €
DP5.0-12/B	5,0	0,75	12	25	✔	5,91 €
DP5.0-14/B	5,0	0,75	14	25	✔	6,50 €
DP5.0-16/B	5,0	0,75	16	25	✔	6,89 €
DP5.0-20/B	5,0	0,75	20	25	✔	11,56 €
DP5.0-24/B	5,0	0,75	24	25	✔	9,10 €
DP5.0-30/B	5,0	0,75	30	25	✔	10,10 €
DP5.0-40/B	5,0	0,75	40	25	✔	12,64 €
DP5.0-50/B	5,0	0,75	50	25	✔	16,29 €
DP6.0-10/B	6,0	0,90	10	25	✔	7,38 €
DP6.0-12/B	6,0	0,90	12	25	✔	7,96 €
DP6.0-14/B	6,0	0,90	14	25	✔	10,78 €
DP6.0-16/B	6,0	0,90	16	25	✔	10,78 €
DP6.0-20/B	6,0	0,90	20	25	✔	10,79 €
DP6.0-24/B	6,0	0,90	24	25	✔	11,72 €
DP6.0-28/B	6,0	0,90	28	25	✔	14,30 €
DP6.0-30/B	6,0	0,90	30	25	✔	13,92 €
DP6.0-40/B	6,0	0,90	40	25	✔	21,81 €
DP6.0-45/B	6,0	0,90	45	25	✔	22,19 €
DP8.0-14/B	8,0	1,20	14	25	✔	14,93 €
DP8.0-16/B	8,0	1,20	16	25	✔	16,57 €
DP8.0-20/B	8,0	1,20	20	25	✔	19,62 €
DP8.0-24/B	8,0	1,20	24	25	✔	19,42 €
DP8.0-30/B	8,0	1,20	30	25	✔	22,19 €
DP8.0-40/B	8,0	1,20	40	25	✔	35,32 €
DP8.0-50/B	8,0	1,20	50	25	✔	31,91 €
DP10.0-20/B	10,0	1,50	20	25	✔	74,02 €
DP10.0-40/B	10,0	1,50	40	25	✔	40,24 €
DP10.0-50/B	10,0	1,50	50	25	-	48,52 €

*Depending on availability - Dimensions in mm

Extractable dowel pin DIN 7979D

DHX

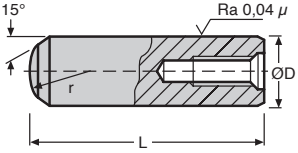
Hardened steel

- ***Easy extraction for holes where access is difficult or restricted***
- *External diameter tolerance: m6*
- *Material: hardened steel (DIN 7979D)*
- ***Sold by the packet***



Info.

- *Ground flat along length allows air to escape during insertion/removal*
- *Exist in box* **(tome 1 p.637)**



DISCOUNTS

Qty	1+	3+	5+	10+
Disc.	List	-20%	-30%	On request

Part number	ØD m6	Thread	Length L	Qty per packet	Stock*	Price per packet
DHX4-10/B	4	M2	10	10	✔	38,72 €
DHX4-12/B	4	M2	12	10	✔	38,88 €
DHX4-14/B	4	M2	14	10	✔	39,00 €
DHX4-16/B	4	M2	16	10	✔	39,16 €
DHX4-20/B	4	M2	20	10	✔	39,56 €
DHX5-10/B	5	M3	10	10	✔	22,19 €
DHX5-12/B	5	M3	12	10	✔	22,31 €
DHX5-16/B	5	M3	16	10	✔	22,44 €
DHX5-20/B	5	M3	20	10	✔	22,93 €
DHX5-24/B	5	M3	24	10	✔	23,30 €
DHX5-30/B	5	M3	30	10	✔	24,39 €
DHX6-12/B	6	M4	12	10	✔	21,52 €
DHX6-16/B	6	M4	16	10	✔	19,29 €
DHX6-20/B	6	M4	20	10	✔	18,07 €
DHX6-24/B	6	M4	24	10	✔	18,15 €
DHX6-30/B	6	M4	30	10	✔	18,37 €
DHX6-40/B	6	M4	40	10	✔	18,85 €
DHX6-60/B	6	M4	60	10	✔	21,78 €

Part number	ØD m6	Thread	Length L	Qty per packet	Stock*	Price per packet
DHX8-16/B	8	M5	16	10	-	22,23 €
DHX8-20/B	8	M5	20	10	✔	18,92 €
DHX8-24/B	8	M5	24	10	✔	19,11 €
DHX8-28/B	8	M5	28	10	-	19,24 €
DHX8-30/B	8	M5	30	10	-	19,82 €
DHX8-40/B	8	M5	40	10	✔	20,54 €
DHX8-50/B	8	M5	50	10	✔	21,52 €
DHX10-20/B	10	M6	20	10	-	24,22 €
DHX10-24/B	10	M6	24	10	-	24,85 €
DHX10-30/B	10	M6	30	10	✔	21,40 €
DHX10-40/B	10	M6	40	10	-	22,36 €
DHX10-45/B	10	M6	45	10	-	22,97 €
DHX10-50/B	10	M6	50	10	-	23,64 €
DHX10-60/B	10	M6	60	10	-	24,85 €
DHX12-40/B	12	M6	40	10	✔	25,50 €
DHX12-60/B	12	M6	60	10	✔	70,39 €
DHX12-90/B	12	M6	90	10	-	47,06 €
DHX12-100/B	12	M6	100	10	-	44,02 €

**Depending on availability - Dimensions in mm*

Technical information

Minimum double shear resistance (kN) according to ISO 8749

EP range - nickel stainless steel A1

Diameter Ø	0,8	1,0	1,2	1,5	2,0	2,5	3,0	3,5	4,0	5,0	6,0	8,0	10,0	12,0
Standard series ISO 8750	0,30	0,45	0,65	1,05	1,9	2,9	4,2	5,7	7,6	11,5	16,8	30	48	67

SRP range - stainless steel A1

Diameter Ø	1,5	2,0	2,5	3,0	4,0	5,0	6,0	8,0	10,0
Standard series ISO 8752	0,98	1,81	2,84	4,07	7,25	10,75	16,17	26,46	42,14

DH range - hardened steel

Diameter Ø	1,0	1,5	2,0	2,5	3,0	4,0	5,0	6,0	8,0	10,0	12,0	16,0	20,0
Standard series DIN 6325	1,5	3,4	5,5	8,0	13,0	22,0	31,0	53,0	88,0	132,0	210,0	350,0	485,0

DP range - stainless steel A1

Diameter Ø	1,0	1,5	2,0	2,5	3,0	4,0	5,0	6,0	8,0	10,0	12,0
Standard series ISO 2338	0,7	1,7	2,9	4,4	6,6	11,7	18,1	26,0	47,0	64,1	92,0

Cylindrical spacer

PLN

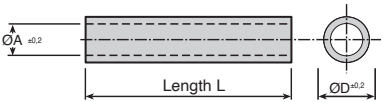
Thermoplastic

- ***Moulded pillar***
- *Material:*
  natural polypropylene
- *Max temp.70°C*

Info.

- *As supplied, ends are closed*
- *Sold by the packet*





DISCOUNTS

N° packets	1+	5+	20+	100+
Discount	Prix	-20%	-30%	On request

Part number	Nominal ØA	ØA	L	ØD	Qty. per packet	Stock*	Price per packet
PLN3-3/B	3	3,2	3 ±0,15	6	100	✔	8,23 €
PLN3-4/B	3	3,2	4 ±0,15	6	100	✔	8,23 €
PLN3-5/B	3	3,2	5 ±0,15	6	100	✔	8,23 €
PLN3-6/B	3	3,2	6 ±0,15	6	100	✔	8,23 €
PLN3-8/B	3	3,2	8 ±0,15	6	100	✔	8,23 €
PLN3-10/B	3	3,2	10 ±0,15	6	100	✔	8,23 €
PLN3-12/B	3	3,2	12 ±0,20	6	100	✔	10,40 €
PLN3-15/B	3	3,2	15 ±0,20	6	100	✔	10,40 €
PLN3-20/B	3	3,2	20 ±0,20	6	100	-	10,40 €
PLN3-25/B	3	3,2	25 ±0,25	6	100	-	13,06 €
PLN3-30/B	3	3,2	30 ±0,25	6	100	-	13,06 €

**Depending on availability - Dimensions in mm*

DISCOUNTS

N° packets	1+	5+	20+	100+
Discount	Prix	-20%	-30%	On request

Part number	Nominal ØA	ØA	L	ØD	Qty. per packet	Stock*	Price per packet
PLN4-2/B	4	4,2	2 ±0,15	8	100	✔	9,38 €
PLN4-3/B	4	4,2	3 ±0,15	8	100	✔	9,38 €
PLN4-4/B	4	4,2	4 ±0,15	8	100	✔	9,38 €
PLN4-5/B	4	4,2	5 ±0,15	8	100	✔	9,38 €
PLN4-6/B	4	4,2	6 ±0,15	8	100	✔	9,38 €
PLN4-8/B	4	4,2	8 ±0,15	8	100	✔	9,38 €
PLN4-10/B	4	4,2	10 ±0,15	8	100	✔	9,38 €
PLN4-12/B	4	4,2	12 ±0,20	8	100	-	10,87 €
PLN4-15/B	4	4,2	15 ±0,20	8	100	✔	10,87 €
PLN4-18/B	4	4,2	18 ±0,20	8	100	-	10,87 €
PLN4-25/B	4	4,2	25 ±0,25	8	100	-	14,05 €
PLN4-30/B	4	4,2	30 ±0,25	8	100	✔	14,05 €
PLN5-2/B	5	5,2	2 ±0,15	10	100	-	10,40 €
PLN5-3/B	5	5,2	3 ±0,15	10	100	-	10,40 €
PLN5-4/B	5	5,2	4 ±0,15	10	100	-	10,40 €
PLN5-5/B	5	5,2	5 ±0,15	10	100	-	10,40 €
PLN5-6/B	5	5,2	6 ±0,15	10	100	-	10,40 €
PLN5-8/B	5	5,2	8 ±0,15	10	100	-	10,40 €
PLN5-10/B	5	5,2	10 ±0,15	10	100	-	10,40 €
PLN5-12/B	5	5,2	12 ±0,20	10	100	-	13,08 €
PLN5-15/B	5	5,2	15 ±0,20	10	100	✔	13,08 €
PLN5-18/B	5	5,2	18 ±0,20	10	100	-	13,08 €
PLN5-20/B	5	5,2	20 ±0,20	10	100	-	13,08 €
PLN5-25/B	5	5,2	25 ±0,25	10	100	-	16,61 €
PLN5-30/B	5	5,2	30 ±0,25	10	100	-	16,61 €
PLN6-2/B	6	6,2	2 ±0,15	10	100	✔	10,40 €
PLN6-3/B	6	6,2	3 ±0,15	10	100	-	10,40 €
PLN6-4/B	6	6,2	4 ±0,15	10	100	✔	10,40 €
PLN6-5/B	6	6,2	5 ±0,15	10	100	✔	10,40 €
PLN6-6/B	6	6,2	6 ±0,15	10	100	✔	10,40 €
PLN6-8/B	6	6,2	8 ±0,15	10	100	✔	10,40 €
PLN6-10/B	6	6,2	10 ±0,15	10	100	✔	10,40 €
PLN6-12/B	6	6,2	12 ±0,20	10	100	✔	13,08 €
PLN6-15/B	6	6,2	15 ±0,20	10	100	✔	13,08 €
PLN6-18/B	6	6,2	18 ±0,20	10	100	-	13,08 €
PLN6-20/B	6	6,2	20 ±0,20	10	100	✔	13,08 €
PLN6-25/B	6	6,2	25 ±0,25	10	100	-	16,61 €
PLN6-30/B	6	6,2	30 ±0,25	10	100	✔	16,61 €

**Depending on availability - Dimensions in mm*

Cylindrical spacer

PLB

Brass

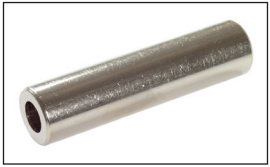
- ***Machined pillar***
- *Material:*
  Brass

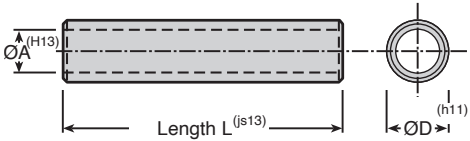
Option

- *Alternative lengths are available*

Info.

- *Sold by the packet*





DISCOUNTS

No pack	1+	5+	20+	100+
Disc	List	-20%	-30%	On request

Part number	Nominal ØA	ØA	ØD	L	Qty. per packet	Stock*	Price per packet
PLB2-1/B	2,0	2,2	4	1	20	✔	2,80 €
PLB2-2/B	2,0	2,2	4	2	20	✔	2,93 €
PLB2-3/B	2,0	2,2	4	3	20	-	3,09 €
PLB2-4/B	2,0	2,2	4	4	20	✔	3,29 €
PLB2-5/B	2,0	2,2	4	5	20	✔	3,39 €
PLB2-8/B	2,0	2,2	4	8	20	✔	3,66 €
PLB2-10/B	2,0	2,2	4	10	20	-	4,02 €
PLB2-12/B	2,0	2,2	4	12	20	-	4,19 €
PLB2.5-1/B	2,5	2,5	5	1	20	-	3,83 €
PLB2.5-2/B	2,5	2,5	5	2	20	-	3,09 €
PLB2.5-3/B	2,5	2,5	5	3	20	-	3,29 €
PLB2.5-4/B	2,5	2,5	5	4	20	✔	3,46 €
PLB2.5-5/B	2,5	2,5	5	5	20	✔	3,66 €
PLB2.5-8/B	2,5	2,5	5	8	20	-	4,19 €
PLB2.5-10/B	2,5	2,5	5	10	20	-	4,52 €
PLB2.5-12/B	2,5	2,5	5	12	20	-	4,92 €
PLB2.5-20/B	2,5	2,5	5	20	20	✔	7,62 €

**Depending on availability - Dimensions in mm*

DISCOUNTS

No pack	1+	5+	20+	100+
Disc	List	-20%	-30%	On request

Part number	Nominal ØA	ØA	ØD	L	Qty. per packet	Stock*	Price per packet
PLB3-2/B	3,0	3,2	6	2	20	✔	2,80 €
PLB3-3/B	3,0	3,2	6	3	20	✔	3,09 €
PLB3-4/B	3,0	3,2	6	4	20	✔	3,29 €
PLB3-5/B	3,0	3,2	6	5	20	✔	3,46 €
PLB3-8/B	3,0	3,2	6	8	20	✔	4,19 €
PLB3-10/B	3,0	3,2	6	10	20	✔	4,74 €
PLB3-12/B	3,0	3,2	6	12	20	✔	5,27 €
PLB3-15/B	3,0	3,2	6	15	20	✔	6,02 €
PLB3-20/B	3,0	3,2	6	20	20	✔	7,51 €
PLB3-25/B	3,0	3,2	6	25	20	-	9,99 €
PLB3-30/B	3,0	3,2	6	30	20	-	12,03 €
PLB4-2/B	4,0	4,3	8	2	20	✔	3,11 €
PLB4-3/B	4,0	4,3	8	3	20	✔	3,46 €
PLB4-4/B	4,0	4,3	8	4	20	✔	3,83 €
PLB4-5/B	4,0	4,3	8	5	20	✔	4,04 €
PLB4-8/B	4,0	4,3	8	8	20	✔	5,29 €
PLB4-10/B	4,0	4,3	8	10	20	✔	6,20 €
PLB4-12/B	4,0	4,3	8	12	20	✔	7,29 €
PLB4-15/B	4,0	4,3	8	15	20	✔	8,38 €
PLB4-18/B	4,0	4,3	8	18	20	-	9,46 €
PLB4-20/B	4,0	4,3	8	20	20	✔	10,55 €
PLB4-25/B	4,0	4,3	8	25	20	-	14,00 €
PLB4-30/B	4,0	4,3	8	30	20	✔	16,47 €
PLB5-2/B	5,0	5,3	10	2	20	-	4,21 €
PLB5-3/B	5,0	5,3	10	3	20	✔	4,75 €
PLB5-4/B	5,0	5,3	10	4	20	✔	5,29 €
PLB5-5/B	5,0	5,3	10	5	20	✔	5,82 €
PLB5-8/B	5,0	5,3	10	8	20	✔	8,95 €
PLB5-10/B	5,0	5,3	10	10	20	✔	10,17 €
PLB5-12/B	5,0	5,3	10	12	20	✔	10,93 €
PLB5-15/B	5,0	5,3	10	15	20	✔	12,91 €
PLB5-20/B	5,0	5,3	10	20	20	✔	16,47 €
PLB5-25/B	5,0	5,3	10	25	20	✔	20,16 €
PLB5-30/B	5,0	5,3	10	30	20	✔	24,69 €
PLB5-35/B	5,0	5,3	10	35	20	✔	29,14 €

*Depending on availability - Dimensions in mm

Cylindrical spacer

PLS

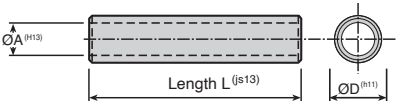
Stainless steel 303

- ***Machined pillar, female/female***
- *Material:*
  Stainless steel 303

Info.

- *Sold by the packet*





DISCOUNTS

No pack	1+	5+	20+	100+
Disc	List	-20%	-30%	On request

Part number	Nominal ØA	ØA	ØD	L	Qty. per packet	Stock*	Price per packet
PLS3-5/B	3	3,2	6	5	20	✔	28,59 €
PLS3-6/B	3	3,2	6	6	20	✔	30,13 €
PLS3-8/B	3	3,2	6	8	20	✔	31,36 €
PLS3-10/B	3	3,2	6	10	20	✔	33,53 €
PLS3-12/B	3	3,2	6	12	20	✔	34,33 €
PLS3-18/B	3	3,2	6	18	20	-	38,13 €
PLS3-25/B	3	3,2	6	25	20	-	42,71 €
PLS4-5/B	4	4,3	8	5	20	✔	31,35 €
PLS4-6/B	4	4,3	8	6	20	✔	33,14 €
PLS4-8/B	4	4,3	8	8	20	✔	34,55 €
PLS4-10/B	4	4,3	8	10	20	✔	36,87 €
PLS4-12/B	4	4,3	8	12	20	-	37,76 €
PLS4-15/B	4	4,3	8	15	20	✔	40,01 €
PLS4-20/B	4	4,3	8	20	20	-	42,89 €
PLS4-25/B	4	4,3	8	25	20	✔	46,92 €
PLS4-30/B	4	4,3	8	30	20	✔	50,28 €

**Depending on availability - Dimensions in mm*

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DISCOUNT

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MADE TO
MEASURE
AVAILABLE



MINIMUM ORDER 20€*

* Certain conditions apply - Deliveries to mainland France only

Hexagonal spacer

SteBraStock

HSE HSB

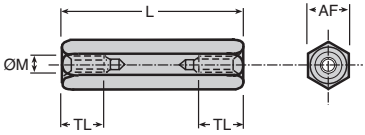
Steel or Brass

- ***Female/female pillar***
- *Material: Zn3-5BL steel zinc-plated by electrolysis or brass*



Info.

- *Sold by the packet*



DISCOUNTS

N° packets	1+	5+	20+	100+
Discount	Prix	-20%	-30%	On request

Part number Steel	Part number Brass	Thread ØM	L	TL	AF	Qty. per packet	Stock* Steel	Stock* Brass	Price per packet Steel	Price per packet Brass
-	HSB2-5/B	M2	5	5	4	20	-	✔	-	4,73 €
-	HSB2-8/B	M2	8	8	4	20	-	✔	-	5,09 €
-	HSB2-10/B	M2	10	10	4	20	-	✔	-	5,48 €
-	HSB2-12/B	M2	12	12	4	20	-	✔	-	6,00 €
-	HSB2-15/B	M2	15	15	4	20	-	✔	-	6,91 €
-	HSB2-20/B	M2	20	20	4	20	-	-	-	On request
-	HSB2-25/B	M2	25	8	4	20	-	✔	-	15,61 €
-	HSB2-35/B	M2	35	8	4	20	-	✔	-	21,38 €
-	HSB2-40/B	M2	40	8	4	20	-	-	-	22,84 €
HSE2.5-5/B	HSB2.5-5/B	M2,5	5	5	5	20	-	✔	On request	4,37 €
-	HSB2.5-8/B	M2,5	8	8	5	20	-	✔	-	4,92 €
HSE2.5-10/B	HSB2.5-10/B	M2,5	10	10	5	20	-	✔	7,31 €	5,38 €
-	HSB2.5-12/B	M2,5	12	12	5	20	-	✔	-	5,81 €
HSE2.5-15/B	-	M2,5	15	15	5	20	-	-	9,19 €	-
HSE2.5-20/B	HSB2.5-20/B	M2,5	20	20	5	20	-	-	11,59 €	8,36 €
HSE2.5-30/B	HSB2.5-30/B	M2,5	30	10	5	20	-	-	On request	11,46 €
-	HSB3-5/B	M3	5	5	5	20	-	✔	-	4,01 €
HSE3-8/B	HSB3-8/B	M3	8	8	5	20	✔	✔	4,79 €	4,51 €
HSE3-10/B	HSB3-10/B	M3	10	10	5	20	✔	✔	5,10 €	4,92 €
HSE3-12/B	HSB3-12/B	M3	12	12	5	20	✔	-	5,43 €	5,48 €
HSE3-15/B	HSB3-15/B	M3	15	15	5	20	✔	✔	5,95 €	6,00 €
HSE3-18/B	HSB3-18/B	M3	18	18	5	20	-	✔	6,67 €	6,91 €
HSE3-20/B	HSB3-20/B	M3	20	20	5	20	✔	✔	7,34 €	7,73 €
HSE3-25/B	HSB3-25/B	M3	25	10	5	20	✔	✔	7,27 €	9,08 €
HSE3-30/B	HSB3-30/B	M3	30	10	5	20	✔	✔	7,51 €	10,53 €
HSE3-35/B	HSB3-35/B	M3	35	10	5	20	-	-	7,94 €	12,53 €
HSE3-40/B	HSB3-40/B	M3	40	10	5	20	✔	-	8,32 €	15,76 €
HSE3-45/B	HSB3-45/B	M3	45	10	5	20	-	-	8,71 €	17,55 €
HSE3-50/B	HSB3-50/B	M3	50	10	5	20	-	-	14,70 €	12,87 €
HSE3-55/B	-	M3	55	10	5	20	-	-	15,38 €	-
HSE3-60/B	HSB3-60/B	M3	60	10	5	20	✔	-	15,98 €	22,84 €
HSE3-70/B	-	M3	70	10	5	20	-	-	17,56 €	-

**Depending on availability - Dimensions in mm*

DISCOUNTS

N° packets	1+	5+	20+	100+
Discount	Prix	-20%	-30%	On request

Part number Steel	Part number Brass	Thread ØM	L	TL	AF	Qty. per packet	Stock* Steel	Stock* Brass	Price per packet Steel	Price per packet Brass
HSE4-8/B	HSB4-8/B	M4	8	8	7	20	✔	✔	5,86 €	6,00 €
HSE4-10/B	HSB4-10/B	M4	10	10	7	20	✔	-	6,06 €	6,42 €
HSE4-12/B	-	M4	12	12	7	20	✔	-	6,51 €	-
HSE4-15/B	HSB4-15/B	M4	15	15	7	20	✔	✔	7,19 €	8,56 €
HSE4-20/B	HSB4-20/B	M4	20	20	7	20	✔	✔	9,00 €	11,10 €
HSE4-25/B	HSB4-25/B	M4	25	10	7	20	✔	-	9,25 €	12,91 €
HSE4-30/B	HSB4-30/B	M4	30	10	7	20	✔	✔	10,08 €	15,27 €
HSE4-35/B	HSB4-35/B	M4	35	10	7	20	✔	-	10,79 €	18,35 €
HSE4-40/B	HSB4-40/B	M4	40	10	7	20	✔	✔	11,37 €	22,84 €
HSE4-45/B	HSB4-45/B	M4	45	10	7	20	✔	✔	11,74 €	25,54 €
HSE4-50/B	-	M4	50	10	7	20	✔	-	17,95 €	-
HSE4-55/B	-	M4	55	10	7	20	-	-	18,85 €	-
HSE4-60/B	-	M4	60	10	7	20	✔	-	19,76 €	-
HSE4-70/B	-	M4	70	10	7	20	-	-	21,64 €	-
HSE4-80/B	-	M4	80	10	7	20	✔	-	23,62 €	-
HSE5-10/B	HSB5-10/B	M5	10	10	8	20	-	-	6,95 €	7,85 €
HSE5-12/B	-	M5	12	12	8	20	✔	-	8,53 €	-
HSE5-15/B	HSB5-15/B	M5	15	15	8	20	✔	-	9,39 €	10,55 €
HSE5-20/B	HSB5-20/B	M5	20	20	8	20	✔	-	13,43 €	13,28 €
HSE5-25/B	HSB5-25/B	M5	25	10	8	20	✔	-	14,50 €	15,64 €
HSE5-30/B	HSB5-30/B	M5	30	10	8	20	✔	✔	15,74 €	18,35 €
HSE5-35/B	HSB5-35/B	M5	35	10	8	20	✔	-	16,48 €	23,75 €
HSE5-40/B	-	M5	40	10	8	20	✔	-	17,41 €	-
HSE5-45/B	-	M5	45	10	8	20	-	-	18,62 €	-
HSE5-50/B	HSB5-50/B	M5	50	10	8	20	✔	-	20,17 €	32,79 €
-	HSB5-55/B	M5	55	10	8	20	-	-	-	36,42 €
HSE5-60/B	HSB5-60/B	M5	60	10	8	20	-	✔	22,84 €	39,97 €
HSE5-70/B	HSB5-70/B	M5	70	10	8	20	✔	-	25,07 €	47,23 €
HSE6-10/B	-	M6	10	10	10	20	✔	-	18,01 €	-
HSE6-12/B	-	M6	12	12	10	20	✔	-	18,41 €	-
HSE6-15/B	-	M6	15	15	10	20	✔	-	19,45 €	-
HSE6-18/B	-	M6	18	18	10	20	✔	-	20,60 €	-
HSE6-20/B	-	M6	20	20	10	20	✔	-	21,43 €	-
HSE6-25/B	-	M6	25	25	10	20	✔	-	23,49 €	-
HSE6-30/B	-	M6	30	13	10	20	✔	-	24,50 €	-
HSE6-35/B	-	M6	35	13	10	20	✔	-	25,58 €	-
HSE6-40/B	-	M6	40	13	10	20	✔	-	26,62 €	-
HSE6-45/B	-	M6	45	13	10	20	✔	-	27,79 €	-
HSE6-50/B	-	M6	50	13	10	20	✔	-	29,05 €	-
HSE6-55/B	-	M6	55	13	10	20	✔	-	30,24 €	-
HSE6-60/B	-	M6	60	13	10	20	✔	-	32,12 €	-
HSE6-70/B	-	M6	70	13	10	20	-	-	34,73 €	-
HSE6-80/B	-	M6	80	13	10	20	✔	-	36,08 €	-

*Depending on availability - Dimensions in mm

Hexagonal spacer

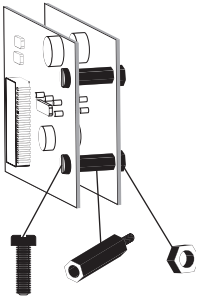
MPE

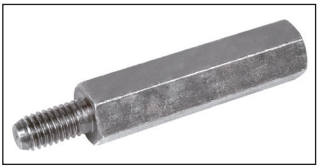
Steel

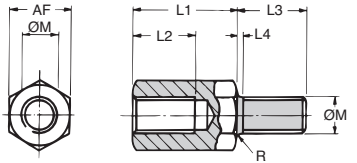
- ***Male/female pillar***
- *Material: Zn3-5BL steel zinc-plated by electrolysis*

Info.

- *Sold by the packet*







DISCOUNTS

N° packets	1+	5+	20+	100+
Discount	Prix	-20%	-30%	On request

Part number	Thread ØM	L1	L2	L3	L4	AF	R	Qty. per packet	Stock*	Price per packet
MPE3-5/B	M3	5	3	8	0,90	5	0,10	20	✔	4,02 €
MPE3-8/B	M3	8	4	8	0,90	5	0,10	20	✔	5,43 €
MPE3-10/B	M3	10	6	8	0,90	5	0,10	20	✔	5,91 €
MPE3-12/B	M3	12	8	8	0,90	5	0,10	20	✔	6,00 €
MPE3-15/B	M3	15	8	8	0,90	5	0,10	20	✔	6,22 €
MPE3-18/B	M3	18	8	8	0,90	5	0,10	20	✔	6,47 €
MPE3-20/B	M3	20	8	8	0,90	5	0,10	20	✔	6,55 €
MPE3-25/B	M3	25	10	10	0,90	5	0,10	20	✔	7,68 €
MPE3-30/B	M3	30	10	10	0,90	5	0,10	20	✔	8,07 €
MPE3-35/B	M3	35	10	10	0,90	5	0,10	20	✔	8,49 €
MPE3-40/B	M3	40	10	10	0,90	5	0,10	20	✔	13,80 €
MPE3-45/B	M3	45	10	10	0,90	5	0,10	20	✔	15,10 €
MPE3-50/B	M3	50	10	10	0,90	5	0,10	20	✔	16,43 €
MPE3-55/B	M3	55	10	10	0,90	5	0,10	20	✔	17,33 €
MPE3-60/B	M3	60	10	10	0,90	5	0,10	20	-	18,40 €
MPE3-70/B	M3	70	10	10	0,90	5	0,10	20	-	20,03 €
MPE3-80/B	M3	80	10	10	0,90	5	0,10	20	-	21,31 €
MPE4-5/B	M4	5	3	8	1,20	7	0,20	20	✔	7,11 €
MPE4-8/B	M4	8	4	8	1,20	7	0,20	20	✔	7,70 €
MPE4-10/B	M4	10	6	8	1,20	7	0,20	20	✔	7,05 €
MPE4-12/B	M4	12	8	8	1,20	7	0,20	20	✔	7,67 €
MPE4-15/B	M4	15	8	8	1,20	7	0,20	20	✔	7,77 €
MPE4-18/B	M4	18	8	8	1,20	7	0,20	20	-	8,56 €

**Depending on availability - Dimensions in mm*

Part number	Thread ØM	L1	L2	L3	L4	AF	R	Qty. per packet	Stock*	Price per packet
MPE4-20/B	M4	20	8	8	1,20	7	0,20	20	✔	8,87 €
MPE4-25/B	M4	25	10	10	1,20	7	0,20	20	✔	10,60 €
MPE4-30/B	M4	30	10	10	1,20	7	0,20	20	✔	11,41 €
MPE4-35/B	M4	35	10	10	1,20	7	0,20	20	✔	12,20 €
MPE4-40/B	M4	40	10	10	1,20	7	0,20	20	✔	17,86 €
MPE4-45/B	M4	45	10	10	1,20	7	0,20	20	✔	17,92 €
MPE4-50/B	M4	50	10	10	1,20	7	0,20	20	✔	20,39 €
MPE4-55/B	M4	55	10	10	1,20	7	0,20	20	-	21,67 €
MPE4-60/B	M4	60	10	10	1,20	7	0,20	20	✔	22,97 €
MPE4-70/B	M4	70	10	10	1,20	7	0,20	20	✔	26,07 €
MPE4-80/B	M4	80	10	10	1,20	7	0,20	20	✔	28,25 €
MPE5-5/B	M5	5	3	8	1,40	8	0,20	20	-	12,01 €
MPE5-8/B	M5	8	4	8	1,40	8	0,20	20	-	12,01 €
MPE5-10/B	M5	10	6	8	1,40	8	0,20	20	✔	12,01 €
MPE5-12/B	M5	12	8	8	1,40	8	0,20	20	✔	12,54 €
MPE5-15/B	M5	15	8	8	1,40	8	0,20	20	✔	13,18 €
MPE5-18/B	M5	18	8	8	1,40	8	0,20	20	-	13,90 €
MPE5-20/B	M5	20	8	8	1,40	8	0,20	20	✔	14,50 €
MPE5-25/B	M5	25	10	10	1,40	8	0,20	20	✔	15,80 €
MPE5-30/B	M5	30	10	10	1,40	8	0,20	20	✔	16,88 €
MPE5-35/B	M5	35	10	10	1,40	8	0,20	20	✔	18,65 €
MPE5-40/B	M5	40	10	10	1,40	8	0,20	20	✔	20,39 €
MPE5-45/B	M5	45	10	10	1,40	8	0,20	20	✔	21,60 €
MPE5-50/B	M5	50	10	10	1,40	8	0,20	20	✔	22,92 €
MPE5-55/B	M5	55	10	10	1,40	8	0,20	20	-	24,24 €
MPE5-60/B	M5	60	10	10	1,40	8	0,20	20	✔	25,76 €
MPE5-70/B	M5	70	10	10	1,40	8	0,20	20	-	28,98 €
MPE5-80/B	M5	80	10	10	1,40	8	0,20	20	✔	34,09 €
MPE6-10/B	M6	10	6	12	2,10	10	0,25	20	✔	17,86 €
MPE6-12/B	M6	12	8	12	2,10	10	0,25	20	✔	18,01 €
MPE6-15/B	M6	15	8	12	2,10	10	0,25	20	✔	18,86 €
MPE6-18/B	M6	18	12	12	2,10	10	0,25	20	✔	19,42 €
MPE6-20/B	M6	20	13	12	2,10	10	0,25	20	✔	20,19 €
MPE6-25/B	M6	25	13	12	2,10	10	0,25	20	✔	22,06 €
MPE6-30/B	M6	30	13	12	2,10	10	0,25	20	✔	23,16 €
MPE6-35/B	M6	35	13	12	2,10	10	0,25	20	✔	24,24 €
MPE6-40/B	M6	40	13	12	2,10	10	0,25	20	✔	25,36 €
MPE6-45/B	M6	45	13	12	2,10	10	0,25	20	✔	26,57 €
MPE6-50/B	M6	50	13	12	2,10	10	0,25	20	✔	28,09 €
MPE6-55/B	M6	55	13	12	2,10	10	0,25	20	✔	29,26 €
MPE6-60/B	M6	60	13	12	2,10	10	0,25	20	✔	30,33 €
MPE6-70/B	M6	70	13	12	2,10	10	0,25	20	✔	33,04 €
MPE6-80/B	M6	80	13	12	2,10	10	0,25	20	✔	35,26 €

*Depending on availability - Dimensions in mm

Hexagonal spacer

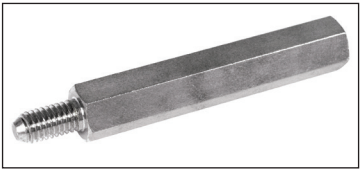
MPB

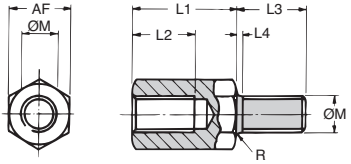
Brass

- ***Male/female pillar***
- *Material:*
  nickel plated brass

Info.

- *Sold by the packet*





DISCOUNTS

N° packets	1+	5+	20+	100+
Discount	Prix	-20%	-30%	On request

Part number	Thread ØM	L1	L2	L3	L4	AF	R	Qty. per packet	Stock*	Price per packet
MPB2-5/B	M2	5	3	6	0,70	4	0,10	20	✔	5,81 €
MPB2-8/B	M2	8	4	6	0,70	4	0,10	20	✔	6,18 €
MPB2-10/B	M2	10	6	6	0,70	4	0,10	20	-	6,75 €
MPB2-12/B	M2	12	8	6	0,70	4	0,10	20	✔	7,11 €
MPB2-20/B	M2	20	8	6	0,70	4	0,10	20	✔	10,53 €
MPB2-25/B	M2	25	8	6	0,70	4	0,10	20	-	13,80 €
MPB2.5-5/B	M2,5	5	3	6	0,80	5	0,10	20	✔	5,62 €
MPB2.5-8/B	M2,5	8	4	6	0,80	5	0,10	20	✔	6,18 €
MPB2.5-10/B	M2,5	10	6	6	0,80	5	0,10	20	✔	6,75 €
MPB2.5-12/B	M2,5	12	8	6	0,80	5	0,10	20	✔	7,63 €
MPB2.5-15/B	M2,5	15	8	6	0,80	5	0,10	20	✔	8,55 €
MPB2.5-20/B	M2,5	20	8	6	0,80	5	0,10	20	✔	10,73 €
MPB2.5-25/B	M2,5	25	8	6	0,80	5	0,10	20	✔	12,01 €
MPB2.5-30/B	M2,5	30	8	6	0,80	5	0,10	20	✔	14,33 €
MPB2.5-35/B	M2,5	35	8	6	0,80	5	0,10	20	-	17,41 €

**Depending on availability - Dimensions in mm*

DISCOUNTS

N° packets	1+	5+	20+	100+
Discount	Prix	-20%	-30%	On request

Part number	Thread ØM	L1	L2	L3	L4	AF	R	Qty. per packet	Stock*	Price per packet
MPB3-5/B	M3	5	3	8	0,90	5	0,10	20	✔	5,26 €
MPB3-8/B	M3	8	4	8	0,90	5	0,10	20	✔	5,71 €
MPB3-10/B	M3	10	6	8	0,90	5	0,10	20	✔	6,18 €
MPB3-12/B	M3	12	8	8	0,90	5	0,10	20	-	6,75 €
MPB3-15/B	M3	15	8	8	0,90	5	0,10	20	✔	7,49 €
MPB3-18/B	M3	18	8	8	0,90	5	0,10	20	✔	8,55 €
MPB3-20/B	M3	20	8	8	0,90	5	0,10	20	✔	9,29 €
MPB3-25/B	M3	25	10	10	0,90	5	0,10	20	✔	10,90 €
MPB3-30/B	M3	30	10	10	0,90	5	0,10	20	✔	12,72 €
MPB3-35/B	M3	35	10	10	0,90	5	0,10	20	✔	16,32 €
MPB3-40/B	M3	40	10	10	0,90	5	0,10	20	-	18,13 €
MPB3-45/B	M3	45	10	10	0,90	5	0,10	20	✔	20,13 €
MPB3-60/B	M3	60	10	10	0,90	5	0,10	20	-	20,01 €
MPB3-70/B	M3	70	10	10	0,90	5	0,10	20	✔	29,70 €
MPB4-8/B	M4	8	4	8	1,20	7	0,20	20	✔	8,94 €
MPB4-10/B	M4	10	6	8	1,20	7	0,20	20	✔	9,46 €
MPB4-12/B	M4	12	8	8	1,20	7	0,20	20	✔	10,00 €
MPB4-15/B	M4	15	8	8	1,20	7	0,20	20	-	11,30 €
MPB4-18/B	M4	18	8	8	1,20	7	0,20	20	-	12,73 €
MPB4-20/B	M4	20	8	8	1,20	7	0,20	20	✔	13,81 €
MPB4-25/B	M4	25	10	10	1,20	7	0,20	20	✔	16,15 €
MPB4-30/B	M4	30	10	10	1,20	7	0,20	20	✔	18,88 €
MPB4-35/B	M4	35	10	10	1,20	7	0,20	20	-	23,75 €
MPB4-45/B	M4	45	10	10	1,20	7	0,20	20	✔	29,51 €
MPB4-50/B	M4	50	10	10	1,20	7	0,20	20	✔	31,86 €
MPB4-80/B	M4	80	10	10	1,20	7	0,20	20	✔	49,02 €
MPB5-5/B	M5	5	3	8	1,40	8	0,20	20	-	On request
MPB5-8/B	M5	8	4	8	1,40	8	0,20	20	-	12,05 €
MPB5-10/B	M5	10	6	8	1,40	8	0,20	20	✔	12,19 €
MPB5-12/B	M5	12	8	8	1,40	8	0,20	20	✔	13,28 €
MPB5-15/B	M5	15	8	8	1,40	8	0,20	20	✔	14,89 €
MPB5-20/B	M5	20	8	8	1,40	8	0,20	20	-	18,49 €
MPB5-25/B	M5	25	10	10	1,40	8	0,20	20	-	21,96 €
MPB5-30/B	M5	30	10	10	1,40	8	0,20	20	✔	26,83 €
MPB5-35/B	M5	35	10	10	1,40	8	0,20	20	-	29,85 €
MPB5-40/B	M5	40	10	10	1,40	8	0,20	20	✔	32,58 €
MPB5-50/B	M5	50	10	10	1,40	8	0,20	20	-	39,10 €
MPB5-60/B	M5	60	10	10	1,40	8	0,20	20	✔	46,68 €
MPB5-70/B	M5	70	10	10	1,40	8	0,20	20	-	52,62 €
MPB5-80/B	M5	80	10	10	1,40	8	0,20	20	-	60,76 €

*Depending on availability - Dimensions in mm

Hexagonal spacer

HS

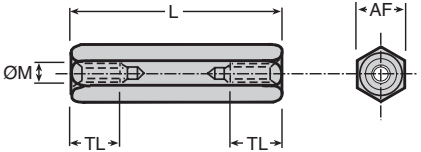
Stainless steel 303

- ***Female/female pillar***
- *Material:*
  stainless steel 303

Info.

- *Sold by the packet*





DISCOUNTS

N° packets	1+	5+	20+	100+
Discount	Prix	-20%	-30%	On request

Part number	Thread ØM	L	TL	AF	Qty per packet	Stock*	Price per packet
HS3-5/B	M3	5	5	5,5	20	✔	16,88 €
HS3-8/B	M3	8	8	5,5	20	-	17,98 €
HS3-10/B	M3	10	10	5,5	20	✔	18,45 €
HS3-15/B	M3	15	15	5,5	20	✔	22,69 €
HS3-20/B	M3	20	20	5,5	20	✔	28,45 €
HS3-25/B	M3	25	10	5,5	20	-	30,03 €
HS3-35/B	M3	35	10	5,5	20	✔	33,47 €
HS3-40/B	M3	40	10	5,5	20	-	34,34 €
HS4-5/B	M4	5	5	7,0	20	-	20,29 €
HS4-8/B	M4	8	8	7,0	20	-	22,14 €
HS4-10/B	M4	10	10	7,0	20	✔	24,33 €
HS4-12/B	M4	12	12	7,0	20	✔	26,21 €
HS4-15/B	M4	15	15	7,0	20	-	29,48 €
HS4-20/B	M4	20	20	7,0	20	✔	32,69 €
HS4-25/B	M4	25	10	7,0	20	✔	33,28 €

**Depending on availability - Dimensions in mm*

Hexagonal spacer

Stainless steel 303

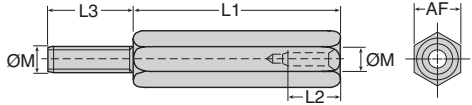
MPS

- ***Male/female pillar***
- *Material:*
  stainless steel 303

Info.

- *Sold by the packet*





DISCOUNTS

N° packets	1+	5+	20+	100+
Discount	Prix	-20%	-30%	On request

Part number	Thread ØM	L1	L2	L3	AF	Qty. per packet	Stock*	Price per packet
MPS3-5/B	M3	5	3	8	5,50	20	✔	24,26 €
MPS3-8/B	M3	8	4	8	5,50	20	✔	24,89 €
MPS3-10/B	M3	10	6	8	5,50	20	✔	25,34 €
MPS3-12/B	M3	12	8	8	5,50	20	✔	27,09 €
MPS3-15/B	M3	15	8	8	5,50	20	✔	27,75 €
MPS3-18/B	M3	18	8	8	5,50	20	✔	28,45 €
MPS3-20/B	M3	20	8	8	5,50	20	✔	28,83 €
MPS3-25/B	M3	25	10	10	5,50	20	✔	32,52 €
MPS4-5/B	M4	5	3	8	7,00	20	✔	25,29 €
MPS4-10/B	M4	10	6	8	7,00	20	✔	26,89 €
MPS4-15/B	M4	15	8	8	7,00	20	✔	29,81 €
MPS4-20/B	M4	20	8	8	7,00	20	✔	31,44 €
MPS4-25/B	M4	25	10	10	7,00	20	✔	35,79 €

**Depending on availability - Dimensions in mm*

Hexagonal threaded sleeves

Stock Sta Ste

MHX

Steel or stainless steel

- ***Hexagonal sleeves, through threaded***
- *Suitable for joining threaded bars*
- *Materials:*
  Zn3-5BL galvanised steel S300Pb
  Stainless steel 303

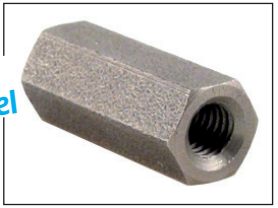
Info.

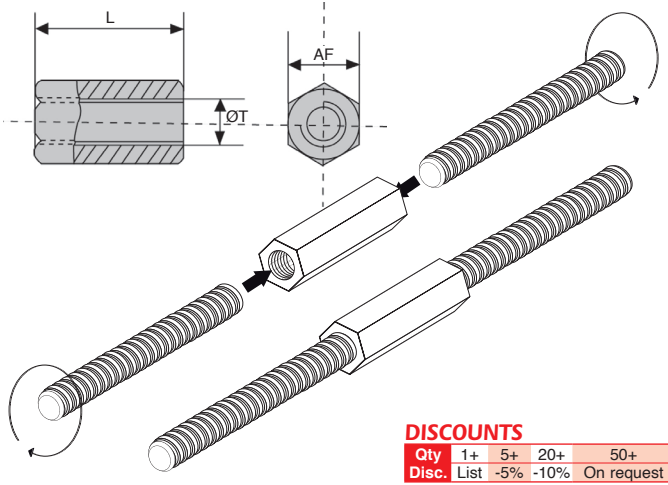
- *Sold by the packet*

Accessory

- *Threaded bar* **TIFss (tome 1 p.529)**

steel or stainless steel





DISCOUNTS

Qty	1+	5+	20+	50+
Disc.	List	-5%	-10%	On request

Part number Steel	Part number Stainless steel	Thread ØT	L	AF	Qty per packet	Stock* Steel	Stock* Stainless steel	Price per packet 1 to 4 Steel	Price per packet 1 to 4 Stainless steel
MHX3-10/B	MHX3-10/SS/B	M3	10	5,5	20	✔	-	4,17 €	15,67 €
MHX3-12/B	MHX3-12/SS/B	M3	12	5,5	20	-	-	4,29 €	17,43 €
MHX3-15/B	MHX3-15/SS/B	M3	15	5,5	20	✔	-	4,82 €	19,26 €
MHX3-18/B	-	M3	18	5,5	20	-	-	5,36 €	-
MHX3-20/B	-	M3	20	5,5	20	✔	-	5,82 €	-

**Depending on availability - Dimensions in mm*

DISCOUNTS

Qty	1+	5+	20+	50+
Disc.	List	-5%	-10%	On request

Part number		Thread			Qty per	Stock*		Price per packet 1 to 4	
Steel	Stainless steel	ØT	L	AF	packet	Steel	Stainless steel	Steel	Stainless steel
MHX4-10/B	MHX4-10/SS/B	M4	10	7,0	20	-	✔	4,37 €	18,20 €
MHX4-12/B	MHX4-12/SS/B	M4	12	7,0	20	-	-	4,68 €	20,46 €
MHX4-15/B	MHX4-15/SS/B	M4	15	7,0	20	-	-	5,18 €	22,87 €
MHX4-18/B	-	M4	18	7,0	20	-	-	5,70 €	-
MHX4-20/B	-	M4	20	7,0	20	✔	-	6,48 €	-
-	MHX5-12/SS/B	M5	12	8,0	20	-	✔	-	32,06 €
MHX5-15/B	MHX5-15/SS/B	M5	15	8,0	20	-	-	6,68 €	24,29 €
-	MHX5-18/SS/B	M5	18	8,0	20	-	-	-	26,91 €
MHX5-20/B	MHX5-20/SS/B	M5	20	8,0	20	✔	✔	9,78 €	27,38 €
MHX5-25/B	-	M5	25	8,0	20	-	-	9,33 €	-
MHX6-15/B	MHX6-15/SS/B	M6	15	10,0	20	✔	✔	5,46 €	35,03 €
MHX6-18/B	MHX6-18/SS/B	M6	18	10,0	20	-	-	5,53 €	34,19 €
MHX6-20/B	MHX6-20/SS/B	M6	20	10,0	20	-	-	6,01 €	35,71 €
MHX6-25/B	MHX6-25/SS/B	M6	25	10,0	20	✔	✔	6,13 €	40,81 €
MHX6-30/B	MHX6-30/SS/B	M6	30	10,0	20	✔	✔	9,41 €	48,45 €
MHX6-35/B	-	M6	35	10,0	20	✔	✔	11,21 €	-
MHX6-40/B	-	M6	40	10,0	20	✔	✔	11,85 €	-
MHX6-50/B	-	M6	50	10,0	20	-	-	18,03 €	
MHX8-15/B	-	M8	15	13,0	20	✔	-	8,97 €	-
MHX8-20/B	-	M8	20	13,0	20	✔	-	10,41 €	-
MHX8-25/B	MHX8-25/SS/B	M8	25	13,0	20	✔	-	13,26 €	63,30 €
MHX8-30/B	MHX8-30/SS/B	M8	30	13,0	20	✔	✔	13,57 €	73,51 €
MHX8-35/B	-	M8	35	13,0	20	-	-	21,51 €	-
MHX8-40/B	-	M8	40	13,0	20	✔	-	17,01 €	-
MHX8-45/B	-	M8	45	13,0	20	✔	-	29,03 €	-
MHX8-50/B	-	M8	50	13,0	20	✔	-	27,86 €	-
MHX8-60/B	-	M8	60	13,0	20	✔	-	41,13 €	-
MHX10-20/B	-	M10	20	17,0	20	✔	-	14,86 €	-
MHX10-25/B	MHX10-25/SS/B	M10	25	17,0	20	-	-	16,98 €	108,28 €
MHX10-30/B	MHX10-30/SS/B	M10	30	17,0	20	-	-	18,95 €	117,45 €
MHX10-40/B	MHX10-40/SS/B	M10	40	17,0	20	✔	-	25,60 €	171,59 €
MHX10-50/B	-	M10	50	17,0	20	-	-	35,93 €	-
MHX10-60/B	-	M10	60	17,0	20	-	-	108,83 €	-
MHX10-70/B	-	M10	70	17,0	20	✔	-	113,52 €	-
MHX12-25/B	-	M12	25	19,0	20	✔	-	18,07 €	-
MHX12-30/B	MHX12-30/SS/B	M12	30	19,0	20	-	-	23,63 €	132,79 €
MHX12-40/B	MHX12-40/SS/B	M12	40	19,0	20	✔	-	34,82 €	180,77 €
MHX12-50/B	MHX12-50/SS/B	M12	50	19,0	20	✔	-	42,63 €	260,47 €
MHX12-60/B	-	M12	60	19,0	20	-	-	115,31 €	-
MHX12-70/B	-	M12	70	19,0	20	✔	-	122,94 €	-

*Depending on availability - Dimensions in mm

Hexagonal reducing sleeve

Ste Sta

MHX

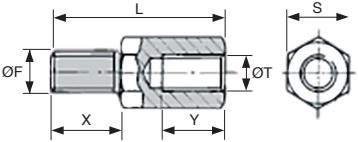
Steel or stainless steel

- **Male/female sleeve**
- Materials:
  Galvanised steel
  Stainless steel 303

Info.

- Supplied by pack





DISCOUNTS

Qty	1+	5+	20+	50+
Disc.	List	-5%	-10%	On request

Part number	Thread ØF	Thread ØT	S	L	X	Y	Qty per pack	Price per packet
Steel								
MHX6-8-19/B	M6	M8	13	19	7	7	20	18,41 €
MHX8-6-20/B	M8	M6	13	20	8	7	20	18,41 €
MHX8-10-23/B	M8	M10	13	23	8	9	20	18,41 €
MHX8-12-23/B	M8	M12	17	23	8	8	20	25,89 €
MHX10-6-21/B	M10	M6	13	21	8	7	20	18,41 €
MHX10-8-21/B	M10	M8	13	21	8	7	20	18,41 €
MHX10-12-25/B	M10	M12	17	25	10	8	20	25,89 €
MHX10-16-32/B	M10	M16	24	32	10	13	20	66,95 €
MHX12-8-23/B	M12	M8	13	23	10	7	20	22,22 €
MHX12-10-23/B	M12	M10	13	23	10	8	20	18,41 €
MHX12-16-32/B	M12	M16	24	32	10	13	20	66,95 €
MHX16-10-32/B	M16	M10	19	32	14	9	20	40,17 €
MHX16-12-32/B	M16	M12	19	32	14	10	20	40,17 €
Stainless steel								
MHX6-8-19/SS/B	M6	M8	13	19	7	7	20	71,32 €
MHX8-6-20/SS/B	M8	M6	13	20	8	7	20	On request
MHX8-10-23/SS/B	M8	M10	13	23	8	9	20	71,32 €
MHX8-12-23/SS/B	M8	M12	17	23	8	8	20	92,30 €
MHX10-6-21/SS/B	M10	M6	13	21	8	7	20	71,32 €
MHX10-8-21/SS/B	M10	M8	13	21	8	7	20	71,32 €
MHX10-12-25/SS/B	M10	M12	17	25	10	8	20	92,30 €
MHX10-16-32/SS/B	M10	M16	24	32	10	13	20	149,38 €
MHX12-8-23/SS/B	M12	M8	13	23	10	7	20	71,32 €
MHX12-10-23/SS/B	M12	M10	13	23	10	8	20	71,32 €
MHX12-16-32/SS/B	M12	M16	24	32	10	13	20	149,38 €
MHX16-10-32/SS/B	M16	M10	19	32	14	9	20	174,23 €
MHX16-12-32/SS/B	M16	M12	19	32	14	10	20	105,85 €

Dimensions in mm

Cylindrical reducing sleeve

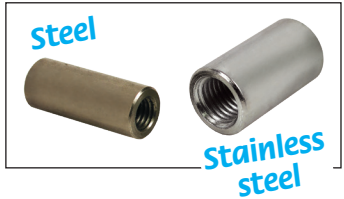
Steel or stainless steel

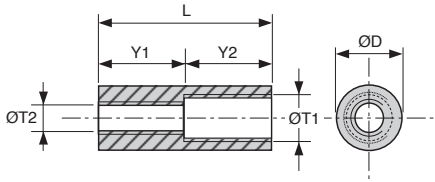
MCL

- ***Male/female sleeve***
- *Allows 2 rods of different diameters to be joined*
- *Materials:*
  Galvanised steel
  Stainless steel 303

Info.

- *Supplied by pack*





DISCOUNTS

Qty	1+	5+	20+	50+
Disc.	List	-5%	-10%	On request

Part number	ØT1	ØT2	ØD	L	Y1	Y2	Qty per pack	Price each 1 to 4
Steel								
MCL6-8-40/B	M6	M8	13	40	20	20	20	24,89 €
MCL6-10-40/B	M6	M10	16	40	20	20	20	32,82 €
MCL8-10-40/B	M8	M10	16	40	20	20	20	32,82 €
MCL8-12-40/B	M8	M12	16	40	20	20	20	32,82 €
MCL10-12-40/B	M10	M12	16	40	20	20	20	32,82 €
MCL10-16-40/B	M10	M16	22	40	20	20	20	46,91 €
MCL12-16-40/B	M12	M16	22	40	20	20	20	46,91 €
Stainless steel								
MCL6-8-40/SS/B	M6	M8	13	40	20	20	20	56,27 €
MCL6-10-40/SS/B	M6	M10	16	40	20	20	20	74,27 €
MCL8-10-40/SS/B	M8	M10	16	40	20	20	20	74,27 €
MCL8-12-40/SS/B	M8	M12	16	40	20	20	20	74,27 €
MCL10-12-40/SS/B	M10	M12	16	40	20	20	20	74,27 €
MCL10-16-40/SS/B	M10	M16	22	40	20	20	20	137,37 €
MCL12-16-40/SS/B	M12	M16	22	40	20	20	20	137,37 €

Dimensions in mm

Cylindrical threaded sleeves

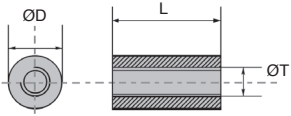
Sta Ste Stock

MCL

Steel or stainless steel

- **Cylindrical sleeves, through threaded**
- Suitable for joining threaded bars
- Materials:
  Zn3-5BL galvanised steel S300PB
  Stainless steel 303
- **Sold by the packet**





DISCOUNTS

No. packets	1+	5+	20+	50+
Discounts	List	-5%	-10%	On request

Part number Steel	Part number Stainless steel	Thread ØT	L	ØD	Qty per packet	Stock* Steel	Stock* S/steel	Price per packet 1 to 4 Steel	Price per packet 1 to 4 S/steel
MCL4-15/B	-	M4	15	7	20	✔	-	5,56 €	-
MCL4-20/B	-	M4	20	7	20	✔	-	5,93 €	-
-	MCL5-15/SS/B	M5	15	8	20	-	✔	-	20,40 €
MCL5-20/B	-	M5	20	8	20	✔	-	4,93 €	-
MCL5-25/B	-	M5	25	8	20	✔	-	5,33 €	-
MCL6-10/B	MCL6-10/SS/B	M6	10	10	20	✔	✔	7,39 €	24,12 €
MCL6-15/B	-	M6	15	10	20	✔	-	4,70 €	-
MCL6-20/B	MCL6-20/SS/B	M6	20	10	20	✔	✔	5,14 €	31,62 €
MCL6-25/B	MCL6-25/SS/B	M6	25	10	20	✔	✔	6,07 €	37,75 €
MCL6-30/B	MCL6-30/SS/B	M6	30	10	20	✔	✔	7,63 €	44,93 €
MCL6-35/B	-	M6	35	10	20	✔	-	9,13 €	-
MCL6-40/B	-	M6	40	10	20	✔	-	11,27 €	-
MCL6-50/B	-	M6	50	10	20	✔	-	16,36 €	-
MCL8-15/B	-	M8	15	11	20	✔	-	4,75 €	-
MCL8-20/B	MCL8-20/SS/B	M8	20	11	20	✔	✔	5,43 €	36,72 €
MCL8-25/B	MCL8-25/SS/B	M8	25	11	20	✔	-	5,49 €	38,81 €
MCL8-30/B	MCL8-30/SS/B	M8	30	11	20	✔	✔	6,63 €	47,95 €
MCL8-35/B	MCL8-35/SS/B	M8	35	11	20	-	-	10,01 €	58,19 €
MCL8-40/B	MCL8-40/SS/B	M8	40	11	20	✔	-	11,37 €	60,24 €
MCL8-50/B	MCL8-50/SS/B	M8	50	11	20	✔	✔	16,50 €	73,51 €
MCL10-20/B	MCL10-20/SS/B	M10	20	13	20	✔	-	7,39 €	45,95 €
MCL10-25/B	MCL10-25/SS/B	M10	25	13	20	-	-	8,08 €	On request
MCL10-30/B	MCL10-30/SS/B	M10	30	13	20	-	-	8,91 €	66,36 €
MCL10-35/B	-	M10	35	13	20	-	-	10,65 €	-
MCL10-40/B	MCL10-40/SS/B	M10	40	13	20	-	-	11,94 €	88,84 €
MCL10-50/B	MCL10-50/SS/B	M10	50	13	20	-	-	19,91 €	100,08 €
MCL10-60/B	-	M10	60	13	20	-	-	22,81 €	-
MCL12-20/B	-	M12	20	15	20	✔	-	9,00 €	-
MCL12-25/B	-	M12	25	15	20	-	-	10,89 €	-
MCL12-30/B	MCL12-30/SS/B	M12	30	15	20	✔	-	11,92 €	88,84 €
MCL12-35/B	-	M12	35	15	20	-	-	12,87 €	-
MCL12-40/B	MCL12-40/SS/B	M12	40	15	20	-	-	14,97 €	102,15 €
MCL12-50/B	MCL12-50/SS/B	M12	50	15	20	-	-	21,84 €	122,53 €
MCL12-60/B	-	M12	60	15	20	✔	-	26,39 €	-

*Depending of availability - Dimensions in mm

Threaded bar DIN 975

Stainless steel A2

TIFss

- **Conforms to DIN 975**
- Material:
  Stainless steel: 303/304 - A2
- Working temperature up to +430°C



Uses

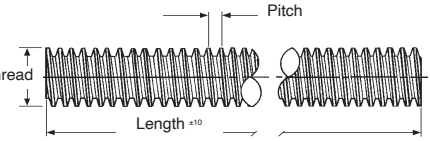
- Suitable for harsh environments

Options

- Stainless steel 316

Accessories

- Nuts **SHN** **(tome 1 p.569)**
- Stainless steel screws
- **MCL** and **MHX** sleeves **(tome 1 p.524-528)**



DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-15%	-20%	On request

Part number	Thread	Pitch	Length (mm)	Stock*	Price each 1 to 5
TIF2-1000/SS	M2	0,40	1000	✔	11,26 €
TIF2.5-1000/SS	M2,5	0,45	1000	-	12,35 €
TIF3-1000/SS	M3	0,50	1000	✔	6,70 €
TIF4-1000/SS	M4	0,70	1000	✔	4,44 €
TIF5-1000/SS	M5	0,80	1000	✔	3,06 €
TIF6-1000/SS	M6	1,00	1000	✔	3,38 €
TIF8-1000/SS	M8	1,25	1000	✔	6,40 €
TIF10-1000/SS	M10	1,50	1000	✔	10,26 €
TIF12-1000/SS	M12	1,75	1000	✔	14,86 €
TIF14-1000/SS	M14	2,00	1000	✔	20,44 €
TIF16-1000/SS	M16	2,00	1000	✔	24,85 €
TIF18-1000/SS	M18	2,50	1000	-	36,37 €
TIF20-1000/SS	M20	2,50	1000	✔	40,50 €
TIF22-1000/SS	M22	2,50	1000	-	53,80 €
TIF24-1000/SS	M24	3,00	1000	-	57,99 €
TIF27-1000/SS	M27	3,00	1000	-	88,19 €
TIF30-1000/SS	M30	3,50	1000	-	111,53 €
TIF33-1000/SS	M33	3,50	1000	-	On request
TIF36-1000/SS	M36	4,00	1000	-	150,75 €

*Depending on availability - Dimensions in mm

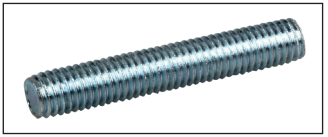
Threaded stud DIN 976A

DIN Ste

TIF

Steel

- **Short threaded stud**
- Material:
  Galvanised steel, class 4.6

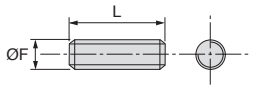


Info.

- Other lengths available on request

Accessories

- SHN nuts **(tome 1 p.569)**
- MCL and MHX sleeves
  (tome 1 p.524-528)



DISCOUNTS

Qty	1+	5+	15+
Disc.	List	-5%	On request

Part number	ØF	L	Quantity per pack	Price each 1 to 4
TIF6-30/B	M6	30	200	26,73 €
TIF6-40/B	M6	40	200	32,16 €
TIF6-50/B	M6	50	200	36,56 €
TIF6-60/B	M6	60	200	47,48 €
TIF6-70/B	M6	70	200	51,88 €
TIF6-80/B	M6	80	200	55,20 €
TIF6-100/B	M6	100	200	68,31 €
TIF6-120/B	M6	120	200	79,26 €
TIF8-30/B	M8	30	200	36,56 €
TIF8-40/B	M8	40	200	44,25 €
TIF8-50/B	M8	50	200	49,68 €
TIF8-60/B	M8	60	200	60,63 €
TIF8-70/B	M8	70	200	66,15 €
TIF8-80/B	M8	80	200	72,70 €
TIF8-100/B	M8	100	200	83,67 €
TIF8-120/B	M8	120	200	149,94 €
TIF8-140/B	M8	140	200	140,56 €
TIF10-30/B	M10	30	100	29,21 €
TIF10-40/B	M10	40	100	31,95 €
TIF10-50/B	M10	50	100	35,24 €
TIF10-60/B	M10	60	100	41,83 €
TIF10-70/B	M10	70	100	51,08 €
TIF10-80/B	M10	80	100	58,81 €
TIF10-100/B	M10	100	100	66,96 €
TIF10-120/B	M10	120	100	88,85 €
TIF10-140/B	M10	140	100	100,89 €
TIF10-160/B	M10	160	100	115,12 €
TIF12-40/B	M12	40	100	40,71 €
TIF12-50/B	M12	50	100	48,37 €
TIF12-60/B	M12	60	100	57,65 €
TIF12-70/B	M12	70	100	68,07 €
TIF12-80/B	M12	80	100	80,13 €
TIF12-100/B	M12	100	100	94,34 €
TIF12-120/B	M12	120	100	127,16 €
TIF12-140/B	M12	140	100	146,30 €
TIF12-160/B	M12	160	100	167,66 €

Dimensions in mm

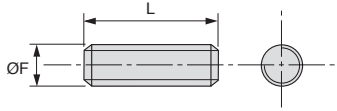
Threaded stud DIN 976A

Stainless steel

TIFss

- **Short threaded stud**
- Material:
  Stainless steel, 304





DISCOUNTS

Qty	1+	5+	15+
Disc.	List	-5%	On request

Part number	ØF	L	Qantity per pack	Price each 1 to 4
TIF6-30/SS/B	M6	30	100	56,82 €
TIF6-40/SS/B	M6	40	100	58,20 €
TIF6-50/SS/B	M6	50	100	63,15 €
TIF6-60/SS/B	M6	60	100	69,96 €
TIF6-70/SS/B	M6	70	100	77,23 €
TIF6-80/SS/B	M6	80	100	83,56 €
TIF6-100/SS/B	M6	100	100	97,16 €
TIF6-120/SS/B	M6	120	100	110,76 €
TIF8-30/SS/B	M8	30	100	59,54 €
TIF8-40/SS/B	M8	40	100	69,96 €
TIF8-50/SS/B	M8	50	100	80,85 €
TIF8-60/SS/B	M8	60	100	96,71 €
TIF8-70/SS/B	M8	70	100	112,10 €
TIF8-80/SS/B	M8	80	100	127,52 €
TIF8-100/SS/B	M8	100	100	140,20 €
TIF8-120/SS/B	M8	120	100	155,62 €
TIF8-140/SS/B	M8	140	100	177,81 €
TIF10-30/SS/B	M10	30	100	84,91 €
TIF10-40/SS/B	M10	40	100	102,60 €
TIF10-50/SS/B	M10	50	100	120,26 €
TIF10-60/SS/B	M10	60	100	136,58 €
TIF10-70/SS/B	M10	70	100	149,27 €
TIF10-80/SS/B	M10	80	100	164,67 €
TIF10-100/SS/B	M10	100	100	195,94 €
TIF10-120/SS/B	M10	120	100	227,67 €
TIF10-140/SS/B	M10	140	100	263,03 €
TIF10-160/SS/B	M10	160	100	299,29 €
TIF12-40/SS/B	M12	40	100	156,51 €
TIF12-50/SS/B	M12	50	100	190,04 €
TIF12-60/SS/B	M12	60	100	218,16 €
TIF12-80/SS/B	M12	80	100	276,61 €
TIF12-100/SS/B	M12	100	100	331,44 €
TIF12-120/SS/B	M12	120	100	389,02 €
TIF12-140/SS/B	M12	140	100	447,45 €
TIF12-160/SS/B	M12	160	100	518,60 €

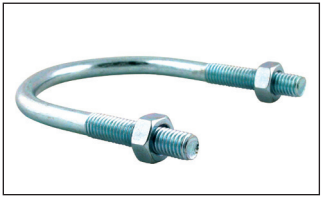
Dimensions in mm

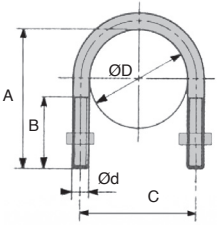
Steel U bolt

EBM

For holding tubes/pipes

- **Supplied with 2 nuts**
- Material:
  Zinc plated steel
- **Not sold individually, please contact us for details**





DISCOUNTS

Qty	1+	101+	201+	301+	401+	501+
Disc.	Prix	-5%	-10%	-15%	-20%	On request

Part number	Nominal Ø DN	For tube external ØD	Internal tube Ød	Thread Ød	A (mm)	B (mm)	C (mm)	Stock*	Price each 1 to 100
EBM013	8	13	1/4	M6	28	18	19	✔	0,35 €
EBM017	10	17	3/8	M6	39	22	23	✔	0,38 €
EBM021	15	21	1/2	M6	41	24	27	✔	0,43 €
EBM027	20	27	3/4	M8	50	30	35	✔	0,60 €
EBM034	25	34	1	M8	55	32	42	✔	0,68 €
EBM042	32	42	1 1/4	M8	68	35	50	✔	0,70 €
EBM049	40	49	1 1/2	M8	70	36	57	✔	0,74 €
EBM060	50	60	2	M8	80	36	68	✔	0,85 €
EBM070	60	70	2 1/4	M8	100	40	78	✔	1,32 €
EBM076	65	76	2 1/2	M8	110	40	84	✔	1,42 €
EBM089	80	89	3	M10	116	40	99	✔	1,94 €
EBM102	90	102	3 1/4	M10	130	40	112	✔	2,24 €
EBM108	-	108	3 1/2	M10	135	40	118	-	3,02 €
EBM114	100	114	4	M10	156	40	124	-	3,25 €
EBM133	-	133	4 3/4	M10	175	40	143	✔	3,96 €
EBM139	125	139	5	M10	195	55	149	✔	5,25 €
EBM159	-	159	5 1/2	M12	195	50	171	✔	6,08 €
EBM168	150	168	6	M12	200	55	180	-	6,20 €
EBM219	200	219	8	M14	270	50	233	-	11,15 €

*Depending on availability - Dimensions in mm

Stainless steel U bolt

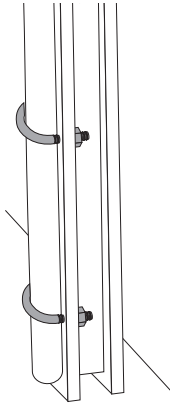
For holding tubes/pipes

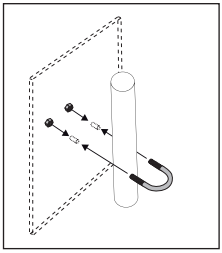
EIM

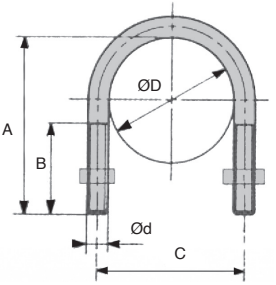
- **Supplied with 2 nuts**
- *Material:*
  Stainless steel 304
- **Not sold individually, please contact us for details**

Stainless steel









DISCOUNTS

Qty	1+	101+	201+	301+	401+
Disc.	Prix	-5%	-10%	-15%	On request

Part number	Nominal Ø DN	For tube external ØD	Internal tube Ød	Thread Ød	A (mm)	B (mm)	C (mm)	Stock*	Price each 1 to 100
EIM013	8	13	1/4	M6	28	20	19	✔	1,37 €
EIM017	10	17	3/8	M6	36	22	23	-	1,68 €
EIM021	15	21	1/2	M6	40	20	27	✔	1,76 €
EIM027	20	27	3/4	M8	50	30	35	✔	3,25 €
EIM034	25	34	1	M8	55	30	42	✔	3,56 €
EIM042	32	42	1 1/4	M8	68	35	50	✔	4,03 €
EIM049	40	49	1 1/2	M8	70	35	57	✔	4,17 €
EIM060	50	60	2	M8	80	35	68	✔	4,33 €
EIM076	65	76	2 1/2	M8	110	45	84	-	5,20 €
EIM089	80	89	3	M10	115	45	99	-	9,37 €
EIM114	100	114	4	M10	156	55	124	-	10,59 €

**Depending on availability - Dimensions in mm*

SET SCREW



p.544

SHOULDER SCREW



p.546

SOCKET HEADED SCREW



p.554

COUNTERSUNK SCREW



p.560

HEXAGONAL HEADED SCREW BRASS



p.563

WING NUT



p.568

SCREWS AND NUTS

P. 532-603

SPHERICAL TILT WASHER



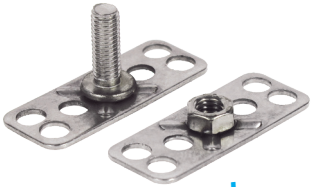
p.576

SELF TAPPING INSERT



p.588

MASTERPLATE INSERT



stainless steel

p.594

DRILL BUSHING



p.602

Buying guide

Screws

Shoulder screw

Pressure screw



Part number	HSS	SHS	SHSS	HCSS	NTM	NTMBR
Head						
Standard	ISO 7379	-	-	DIN 916	DIN 975	-
Characteristics	centring or guidance by precision shoulder	centring or guidance by precision shoulder	centring or guidance by precision shoulder	force concentrated into cup lips	good hold, does not damage the shaft	good hold, does not damage the shaft
Material	hardened steel	stainless steel 303	stainless steel 416 pre-treated	stainless steel A2	stainless steel A2	steel
Corrosion resistance	☆	☆☆☆	☆☆	☆☆☆	☆☆☆	☆
Mechanical resistance	☆☆☆	☆☆	☆☆☆	☆☆	☆☆	☆☆
Price	€	€€	€€€	€€	€€€	€
Pages	1 p.546	1 p.550	1 p.552	1 p.538	1 p.544	1 p.542

Nut



Part number	SHN	SHNA	SHNBR	NIN	NINA	WING	WINGBR
Description	hexagonal	hexagonal	hexagonal	hexagonal	hexagonal	Wing	Wing
Standard	DIN 934	DIN 934	DIN 934	DIN 985	DIN 985	DIN 314/315	DIN 315
Characteristics	standard	standard	standard	Self-locking	Self-locking	manualy operated	manualy operated
Material	stainless steel A2	steel	brass	stainless steel A2	steel	steel / stainless steel A2	brass
Corrosion resistance	☆☆☆	☆☆	☆☆	☆☆☆	☆	☆/☆☆☆	☆☆
Mechanical resistance	☆☆	☆☆	☆	☆☆	☆☆	☆☆	☆
Price	€	€€	€€	€€	€	€	€€
Pages	1 p.569	1 p.569	1 p.570	1 p.571	1 p.571	1 p.568	1 p.567

Assembly screws

						
NTM$_{DL}$	**CHC**	**CHC$_{SS}$**	**FHC**	**BHC**	**VTH**	**VTH$_{BR}$**
						
-	DIN 912	DIN 912	DIN 7991	ISO 7380	DIN 933	DIN 933
good hold, does not damage the shaft	head can be countersunk	head can be countersunk	centering, head can be countersunk	round head	strong tightening	strong tightening
steel	steel	**stainless steel A2**	**stainless steel A2**	**stainless steel A2**	steel	**brass**
☆	☆	☆☆☆	☆☆☆	☆☆☆	☆	☆☆
☆☆	☆☆	☆☆☆	☆☆	☆☆	☆☆	☆
€	€	€€	€€	€€	€€	€€
1 **p.540**	1 **p.554**	1 **p.558**	1 **p.560**	1 **p.562**	1 **p.564**	1 **p.563**

Washers

						
Part number	**WM**	**SHW**	**SHW$_{BR}$**	**RCX / RCC**	**RCX$_{SS}$ / RCC$_{SS}$**	**WTM**
Description	simple	simple	simple	spherical dished	spherical dished	for clamping devices
Standard	DIN 125	DIN 125	DIN125	DIN 6319	DIN 6319	DIN 6340
Characteristics	standard	standard	standard	ensures the correct seating of the screw	ensures the correct seating of the screw	high clamping force
Material	steel	steel	**brass**	steel	**stainless steel**	hardened steel
Corrosion resistance	☆	☆	☆☆	☆☆☆	☆☆☆	☆
Mechanical resistance	☆☆	☆☆	☆	☆☆	☆☆	☆☆☆
Price	€	€	€	€	€€	€
Pages	1 **p.574**	1 **p.574**	1 **p.575**	1 **p.576**	1 **p.577**	1 **p.578**

Cup point set screw

HCss

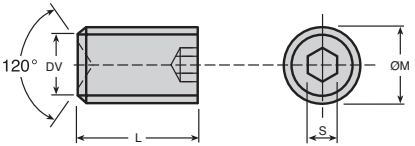
Stainless steel A2

- **Conforms to DIN 916**
- Material:
  Stainless steel 302/304 - A2
- Working temperature up to +430°C

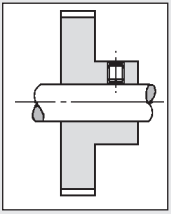
Info.

- Supplied by pack





Designer's Note



Bore or shaft diameter		Screw size
from Ø	to Ø (included)	ØT
Ø4	- Ø6	M3
Ø6	- Ø8	M3
Ø8	- Ø10	M3
Ø10	Ø12	M4
Ø12	- Ø17	M5
Ø17	- Ø22	M6
Ø22	- Ø30	M8
Ø30	- Ø44	M10
Ø44	- Ø58	M12

DISCOUNTS

N° packets	1+	2+	4+
Disc.	List	-20%	On request

Part number	Thread ØM	Pitch	Length L	DV	S	Qty. per packet	Stock*	Price per packet
HC2-3/SS/B	M2	0,40	3	1,0	0,9	200	✔	23,81 €
HC2-4/SS/B	M2	0,40	4	1,0	0,9	200	✔	25,36 €
HC2-5/SS/B	M2	0,40	5	1,0	0,9	200	✔	33,10 €
HC2-6/SS/B	M2	0,40	6	1,0	0,9	200	✔	21,75 €
HC2-10/SS/B	M2	0,40	10	1,0	0,9	500	-	38,02 €
HC2.5-5/SS/B	M2,5	0,45	5	1,2	1,3	200	-	On request
HC2.5-8/SS/B	M2,5	0,45	8	1,2	1,3	200	-	On request
HC2.5-10/SS/B	M2,5	0,45	10	1,2	1,3	200	-	On request

*Depending on availability - Dimensions in mm

Part number	Thread ØM	Pitch	Length L	DV	S	Qty. per packet	Stock*	Price per packet
HC3-4/SS/B	M3	0,50	4	1,4	1,5	500	✔	14,70 €
HC3-5/SS/B	M3	0,50	5	1,4	1,5	500	✔	21,74 €
HC3-6/SS/B	M3	0,50	6	1,4	1,5	500	✔	12,13 €
HC3-8/SS/B	M3	0,50	8	1,4	1,5	500	✔	15,24 €
HC3-10/SS/B	M3	0,50	10	1,4	1,5	500	✔	22,30 €
HC3-12/SS/B	M3	0,50	12	1,4	1,5	500	-	17,81 €
HC3-16/SS/B	M3	0,50	16	1,4	1,5	500	-	22,22 €
HC3-20/SS/B	M3	0,50	20	1,4	1,5	500	✔	44,47 €
HC4-4/SS/B	M4	0,70	4	2,0	2,0	500	✔	11,08 €
HC4-5/SS/B	M4	0,70	5	2,0	2,0	500	✔	7,15 €
HC4-6/SS/B	M4	0,70	6	2,0	2,0	500	✔	10,95 €
HC4-8/SS/B	M4	0,70	8	2,0	2,0	500	-	8,25 €
HC4-10/SS/B	M4	0,70	10	2,0	2,0	500	✔	10,82 €
HC4-12/SS/B	M4	0,70	12	2,0	2,0	500	-	14,13 €
HC4-16/SS/B	M4	0,70	16	2,0	2,0	500	-	14,13 €
HC4-20/SS/B	M4	0,70	20	2,0	2,0	500	✔	40,96 €
HC5-5/SS/B	M5	0,80	5	2,5	2,5	500	✔	9,92 €
HC5-6/SS/B	M5	0,80	6	2,5	2,5	500	✔	16,97 €
HC5-8/SS/B	M5	0,80	8	2,5	2,5	500	✔	11,93 €
HC5-10/SS/B	M5	0,80	10	2,5	2,5	500	✔	11,75 €
HC5-12/SS/B	M5	0,80	12	2,5	2,5	500	✔	22,01 €
HC5-16/SS/B	M5	0,80	16	2,5	2,5	500	-	18,55 €
HC5-20/SS/B	M5	0,80	20	2,5	2,5	500	✔	22,41 €
HC5-25/SS/B	M5	0,80	25	2,5	2,5	200	-	43,87 €
HC5-30/SS/B	M5	0,80	30	2,5	2,5	200	✔	19,04 €
HC6-6/SS/B	M6	1,00	6	3,0	3,0	500	✔	20,34 €
HC6-8/SS/B	M6	1,00	8	3,0	3,0	500	✔	39,13 €
HC6-10/SS/B	M6	1,00	10	3,0	3,0	500	✔	28,83 €
HC6-12/SS/B	M6	1,00	12	3,0	3,0	500	✔	49,93 €
HC6-16/SS/B	M6	1,00	16	3,0	3,0	500	-	31,96 €
HC6-20/SS/B	M6	1,00	20	3,0	3,0	500	✔	49,52 €
HC6-25/SS/B	M6	1,00	25	3,0	3,0	200	✔	20,86 €
HC6-30/SS/B	M6	1,00	30	3,0	3,0	200	-	27,26 €
HC6-35/SS/B	M6	1,00	35	3,0	3,0	200	-	24,84 €
HC6-40/SS/B	M6	1,00	40	3,0	3,0	200	✔	31,53 €
HC8-16/SS/B	M8	1,25	16	5,0	4,0	200	✔	18,96 €
HC8-20/SS/B	M8	1,25	20	5,0	4,0	200	✔	22,26 €
HC8-25/SS/B	M8	1,25	25	5,0	4,0	200	-	27,19 €
HC8-30/SS/B	M8	1,25	30	5,0	4,0	200	✔	46,37 €
HC8-40/SS/B	M8	1,25	40	5,0	4,0	200	-	50,63 €
HC10-10/SS/B	M10	1,50	10	6,0	5,0	100	-	On request
HC10-16/SS/B	M10	1,50	16	6,0	5,0	100	-	17,93 €
HC10-20/SS/B	M10	1,50	20	6,0	5,0	100	✔	23,22 €
HC10-25/SS/B	M10	1,50	25	6,0	5,0	100	-	22,22 €
HC10-30/SS/B	M10	1,50	30	6,0	5,0	100	-	27,73 €
HC10-40/SS/B	M10	1,50	40	6,0	5,0	100	-	39,54 €
HC10-50/SS/B	M10	1,50	50	6,0	5,0	100	-	59,38 €

*Depending on availability - Dimensions in mm

Set screw Delrin tip

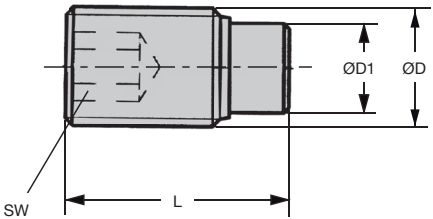
NTMDL — Blackened steel finish

- *Materiel :*
  Screw : steel (class 10.9)
  Tip : Delrin

Info

- *The tip is fitted into the screw. These screws are designed to lock or gently hold screws, axles, shafts or other components with a high quality surface finish.*



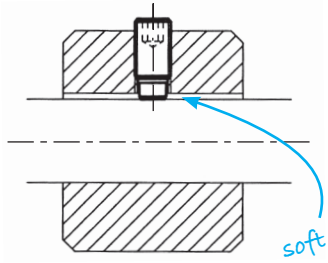


DISCOUNTS

Qty	1+	6+	30+	40+	60+	100+	300+
Disc.	List	-10%	-15%	-20%	-25%	-45%	On request

Part number	ØD	ØD1	L	SW	Stock*	Price each 1 to 19
NTM4-7/DL	M4	2	7	2	✔	3,69 €
NTM4-9/DL	M4	2	9	2	✔	3,69 €
NTM4-11/DL	M4	2	11	2	✔	3,69 €
NTM4-13/DL	M4	2	13	2	✔	3,64 €
NTM4-17/DL	M4	2	17	2	✔	3,64 €
NTM4-31/DL	M4	2	31	2	✔	8,89 €
NTM4-41/DL	M4	2	41	2	-	9,02 €
NTM5-9/DL	M5	3	9	2,5	✔	3,42 €
NTM5-11/DL	M5	3	11	2,5	-	3,42 €
NTM5-13/DL	M5	3	13	2,5	-	3,42 €
NTM5-17/DL	M5	3	17	2,5	✔	3,42 €
NTM5-21/DL	M5	3	21	2,5	-	3,69 €
NTM5-31/DL	M5	3	31	2,5	-	9,49 €
NTM5-41/DL	M5	3	41	2,5	-	9,66 €

**Depending on availability - Dimensions in mm*



Part number	ØD	ØD1	L	SW	Stock*	Price each 1 to 19
NTM6-11/DL	M6	3,5	11,3	3	✔	3,42 €
NTM6-13/DL	M6	3,5	13,3	3	✔	3,42 €
NTM6-17/DL	M6	3,5	17,3	3	-	3,69 €
NTM6-21/DL	M6	3,5	21,3	3	✔	3,69 €
NTM6-26/DL	M6	3,5	26,3	3	✔	3,88 €
NTM6-41/DL	M6	3,5	41,3	3	-	9,80 €
NTM6-51/DL	M6	3,5	51,3	3	-	9,94 €
NTM6-61/DL	M6	3,5	61,3	3	-	10,07 €
NTM8-13/DL	M8	5	13,6	4	-	3,88 €
NTM8-17/DL	M8	5	17,6	4	✔	3,88 €
NTM8-21/DL	M8	5	21,6	4	-	3,88 €
NTM8-26/DL	M8	5	26,6	4	✔	4,16 €
NTM8-33/DL	M8	5	33,6	4	✔	4,74 €
NTM8-51/DL	M8	5	51,6	4	-	9,49 €
NTM8-61/DL	M8	5	61,6	4	-	9,66 €
NTM8-81/DL	M8	5	81,6	4	✔	9,80 €
NTM10-18/DL	M10	6,5	17,9	5	-	4,60 €
NTM10-22/DL	M10	6,5	21,9	5	-	4,79 €
NTM10-27/DL	M10	6,5	26,9	5	-	4,80 €
NTM10-34/DL	M10	6,5	33,9	5	-	5,54 €
NTM10-42/DL	M10	6,5	41,9	5	-	6,39 €
NTM10-52/DL	M10	6,5	51,9	5	-	9,66 €
NTM10-62/DL	M10	6,5	61,9	5	-	9,86 €
NTM10-82/DL	M10	6,5	81,9	5	-	9,94 €
NTM12-22/DL	M12	8	22,1	6	-	5,39 €
NTM12-27/DL	M12	8	27,1	6	✔	5,54 €
NTM12-34/DL	M12	8	34,1	6	-	6,07 €
NTM12-42/DL	M12	8	42,1	6	-	6,79 €
NTM12-52/DL	M12	8	52,1	6	-	7,84 €
NTM12-62/DL	M12	8	62,1	6	-	10,07 €
NTM12-82/DL	M12	8	82,1	6	-	10,28 €

*Depending on availability - Dimensions in mm

Set screw brass tip

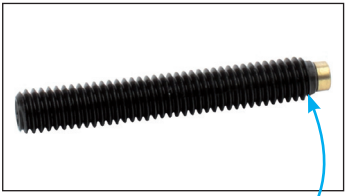
NTMBR

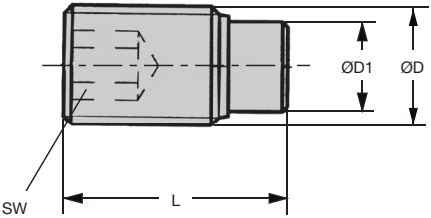
Blackened steel finish

- Materiel :
  Screw : steel (class 10.9)
  Tip : brass

Info

- The tip is fitted into the screw. These screws are designed to lock or gently hold screws, axles, shafts or other components with a high quality surface finish.



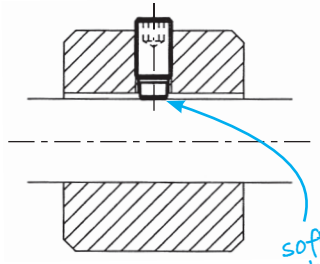


DISCOUNTS

Qty	1+	20+	30+	40+	60+	100+	300+
Disc.	List	-10%	-15%	-20%	-25%	-45%	On request

Part number	ØD	ØD1	L	SW	Stock*	Price each 1 to 19
NTM4-6/BR	M4	2,5	6,5	2	✔	7,22 €
NTM4-10/BR	M4	2,5	10,5	2	✔	7,22 €
NTM4-16/BR	M4	2,5	16,5	2	-	7,45 €
NTM4-30/BR	M4	2,5	30,5	2	-	10,06 €
NTM4-40/BR	M4	2,5	40,5	2	-	10,25 €
NTM5-8/BR	M5	3	8,5	2,5	-	6,51 €
NTM5-12/BR	M5	3	12,5	2,5	✔	6,51 €
NTM5-20/BR	M5	3	20,5	2,5	-	6,76 €
NTM5-30/BR	M5	3	30,5	2,5	-	10,25 €
NTM5-40/BR	M5	3	40,5	2,5	-	10,42 €

*Depending on availability - Dimensions in mm



Part number	ØD	ØD1	L	SW	Stock*	Price each 1 to 19
NTM6-11/BR	M6	4,0	11,5	3	✔	6,51 €
NTM6-17/BR	M6	4,0	17,5	3	✔	6,51 €
NTM6-26/BR	M6	4,0	26,5	3	✔	6,76 €
NTM6-41/BR	M6	4,0	41,5	3	-	10,43 €
NTM6-51/BR	M6	4,0	51,5	3	-	10,65 €
NTM6-61/BR	M6	4,0	61,5	3	-	10,64 €
NTM8-12/BR	M8	5,5	12,0	4	✔	6,75 €
NTM8-22/BR	M8	5,5	22,0	4	✔	6,75 €
NTM8-32/BR	M8	5,5	32,0	4	✔	6,93 €
NTM8-52/BR	M8	5,5	52,0	4	-	10,84 €
NTM8-62/BR	M8	5,5	62,0	4	-	11,01 €
NTM8-82/BR	M8	5,5	82,0	4	-	11,08 €
NTM10-14/BR	M10	7,0	14,0	5	-	7,70 €
NTM10-18/BR	M10	7,0	18,0	5	-	7,70 €
NTM10-27/BR	M10	7,0	27,0	5	-	7,86 €
NTM10-37/BR	M10	7,0	37,0	5	-	8,30 €
NTM10-52/BR	M10	7,0	52,0	5	-	11,01 €
NTM10-62/BR	M10	7,0	62,0	5	-	11,20 €
NTM10-82/BR	M10	7,0	82,0	5	✔	11,37 €
NTM12-18/BR	M12	8,5	18,5	6	-	8,46 €
NTM12-22/BR	M12	8,5	22,5	6	-	8,46 €
NTM12-32/BR	M12	8,5	32,5	6	-	9,24 €
NTM12-42/BR	M12	8,5	42,5	6	-	9,94 €
NTM12-52/BR	M12	8,5	52,5	6	-	11,20 €
NTM12-62/BR	M12	8,5	62,5	6	-	11,42 €
NTM12-82/BR	M12	8,5	82,5	6	-	11,73 €

*Depending on availability - Dimensions in mm

Nylon tipped set screw

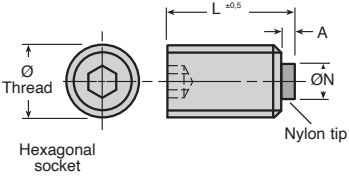
Sta Stock

NTM

Stainless steel A2

- **Does not damage shafts**
- Self-locking
- Nylon tip adapts to shaft and increases grip
- Materials :
  Stainless steel
  Nylon head (colour can vary depending on stock availability)





DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-10%	-15%	On request

Part number	Ø Thread	Pitch	L	ØN	A	Stock*	Price each 1 to 5
NTM2-4	M2	0,4	4,0	0,8	0,8	✔	23,87 €
NTM2-5	M2	0,4	5,0	0,8	0,8	✔	27,02 €
NTM2-6	M2	0,4	6,0	0,8	0,8	✔	21,17 €
NTM2-7	M2	0,4	7,0	0,8	0,8	-	On request
NTM3-4	M3	0,5	4,0	1,6	0,8	✔	10,52 €
NTM3-5	M3	0,5	5,0	1,6	0,8	✔	7,82 €
NTM3-6	M3	0,5	6,0	1,6	0,8	✔	17,45 €
NTM4-5	M4	0,7	5,0	2,4	1,2	✔	8,66 €
NTM4-7	M4	0,7	7,0	2,4	1,2	✔	16,11 €
NTM4-11	M4	0,7	11,0	2,4	1,2	✔	13,77 €
NTM4-15	M4	0,7	15,0	2,4	1,2	✔	30,64 €
NTM5-7	M5	0,8	7,0	2,4	1,2	✔	20,76 €
NTM5-11	M5	0,8	11,0	2,4	1,2	✔	10,22 €
NTM5-15	M5	0,8	15,0	2,4	1,2	✔	15,24 €
NTM5-21	M5	0,8	21,0	2,4	1,2	✔	10,19 €
NTM6-7.5	M6	1,0	7,5	3,2	1,6	✔	15,22 €
NTM6-11.5	M6	1,0	11,5	3,2	1,6	✔	11,09 €
NTM6-17.5	M6	1,0	17,5	3,2	1,6	✔	14,79 €
NTM6-26.5	M6	1,0	26,5	3,2	1,6	✔	16,90 €
NTM10-14.5	M10	1,5	14,5	4,8	2,4	-	13,47 €
NTM10-22.5	M10	1,5	22,5	4,8	2,4	-	33,98 €

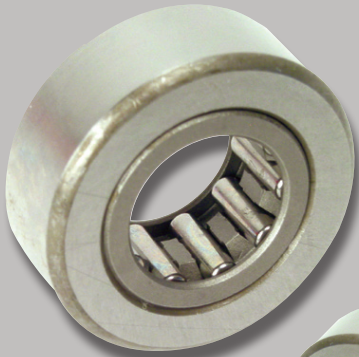
*Depending on availability - Dimensions in mm

Find the full range of

CAM FOLLOWERS

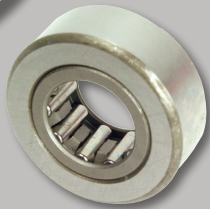
on HPCEUROPE.COM

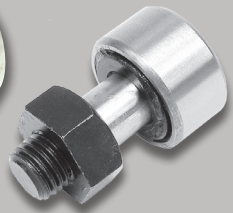




Stainless steel







- With or without studs
- Alternative bearing diameters

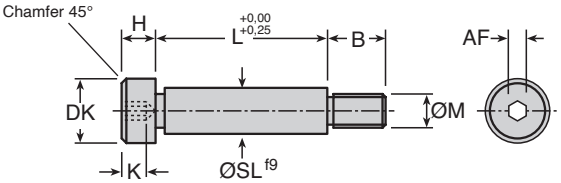


Shoulder screw ISO 7379

HSS — Hardened steel Class 12.9

- ***Shoulder screws, quality class 12.9***
- *For centering as well as holding*
- *Material: Hardened steel 33-38 HRc (oil-hardened)*
- *Traction resistance 1220N/mm²*
- *Shear strength 624N/mm²*
- *Minimum elongation: 8%*
- *Working temperature: -50°C to +300°C*
- ***Not sold individually, please contact us for details***





ØSL	ØM	Traction Force (kN)			Tightening torque (Nm)
		Thread	Shoulder	Groove	
6	M5	16,99	20,47	7,62	7,61
8	M6	24,03	36,38	10,90	13,14
10	M8	43,77	56,86	20,81	33,63
12	M10	69,38	81,88	33,79	60,56
16	M12	100,52	145,55	49,80	120,62

DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+	300+
Disc.	List	-10%	-15%	-20%	-30%	-55%	On request

Part number	Thread ØM	L	Pitch	b	dk	k	ØsL	H	AF	Stock*	Price each 1 to 5
HSS5-10	M5	10	0,80	9,75	10,22	2,4	Ø6 $^{-0,010}_{-0,040}$	4,5	3	✔	3,56 €
HSS5-12	M5	12	0,80	9,75	10,22	2,4	Ø6 $^{-0,010}_{-0,040}$	4,5	3	✔	3,56 €
HSS5-16	M5	16	0,80	9,75	10,22	2,4	Ø6 $^{-0,010}_{-0,040}$	4,5	3	✔	3,72 €
HSS5-20	M5	20	0,80	9,75	10,22	2,4	Ø6 $^{-0,010}_{-0,040}$	4,5	3	✔	3,72 €
HSS5-25	M5	25	0,80	9,75	10,22	2,4	Ø6 $^{-0,010}_{-0,040}$	4,5	3	✔	3,79 €
HSS5-30	M5	30	0,80	9,75	10,22	2,4	Ø6 $^{-0,010}_{-0,040}$	4,5	3	✔	3,79 €
HSS5-40	M5	40	0,80	9,75	10,22	2,4	Ø6 $^{-0,010}_{-0,040}$	4,5	3	✔	3,84 €

**Depending on availability - Dimensions in mm*

DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+	300+
Disc.	IIST	-10%	-15%	-20%	-30%	-55%	On request

Part number	Thread ØM	L	Pitch	b	dk	k	ØsL	H	AF	Stock*	Price each 1 to 5
HSS6-12	M6	12	1,00	11,25	13,27	3,3	Ø8 $^{-0,013}_{-0,049}$	5,5	4	✔	3,89 €
HSS6-16	M6	16	1,00	11,25	13,27	3,3	Ø8 $^{-0,013}_{-0,049}$	5,5	4	✔	4,00 €
HSS6-20	M6	20	1,00	11,25	13,27	3,3	Ø8 $^{-0,013}_{-0,049}$	5,5	4	✔	4,16 €
HSS6-25	M6	25	1,00	11,25	13,27	3,3	Ø8 $^{-0,013}_{-0,049}$	5,5	4	✔	4,16 €
HSS6-30	M6	30	1,00	11,25	13,27	3,3	Ø8 $^{-0,013}_{-0,049}$	5,5	4	✔	4,35 €
HSS6-40	M6	40	1,00	11,25	13,27	3,3	Ø8 $^{-0,013}_{-0,049}$	5,5	4	✔	4,50 €
HSS6-50	M6	50	1,00	11,25	13,27	3,3	Ø8 $^{-0,013}_{-0,049}$	5,5	4	✔	4,62 €
HSS8-16	M8	16	1,25	13,25	16,27	4,2	Ø10 $^{-0,013}_{-0,049}$	7,0	5	✔	4,74 €
HSS8-20	M8	20	1,25	13,25	16,27	4,2	Ø10 $^{-0,013}_{-0,049}$	7,0	5	✔	4,74 €
HSS8-25	M8	25	1,25	13,25	16,27	4,2	Ø10 $^{-0,013}_{-0,049}$	7,0	5	✔	4,90 €
HSS8-30	M8	30	1,25	13,25	16,27	4,2	Ø10 $^{-0,013}_{-0,049}$	7,0	5	✔	5,99 €
HSS8-40	M8	40	1,25	13,25	16,27	4,2	Ø10 $^{-0,013}_{-0,049}$	7,0	5	✔	6,35 €
HSS8-50	M8	50	1,25	13,25	16,27	4,2	Ø10 $^{-0,013}_{-0,049}$	7,0	5	✔	6,42 €
HSS8-60	M8	60	1,25	13,25	16,27	4,2	Ø10 $^{-0,013}_{-0,049}$	7,0	5	✔	6,42 €
HSS8-70	M8	70	1,25	13,25	16,27	4,2	Ø10 $^{-0,013}_{-0,049}$	7,0	5	✔	7,05 €
HSS8-80	M8	80	1,25	13,25	16,27	4,2	Ø10 $^{-0,013}_{-0,049}$	7,0	5	✔	7,90 €
HSS10-16	M10	16	1,50	16,4	18,27	4,9	Ø12 $^{-0,016}_{-0,059}$	8,0	6	✔	7,47 €
HSS10-20	M10	20	1,50	16,4	18,27	4,9	Ø12 $^{-0,016}_{-0,059}$	8,0	6	✔	7,14 €
HSS10-25	M10	25	1,50	16,4	18,27	4,9	Ø12 $^{-0,016}_{-0,059}$	8,0	6	✔	8,15 €
HSS10-30	M10	30	1,50	16,4	18,27	4,9	Ø12 $^{-0,016}_{-0,059}$	8,0	6	✔	8,27 €
HSS10-40	M10	40	1,50	16,4	18,27	4,9	Ø12 $^{-0,016}_{-0,059}$	8,0	6	✔	8,11 €
HSS10-50	M10	50	1,50	16,4	18,27	4,9	Ø12 $^{-0,016}_{-0,059}$	8,0	6	✔	8,98 €
HSS10-60	M10	60	1,50	16,4	18,27	4,9	Ø12 $^{-0,016}_{-0,059}$	8,0	6	✔	11,06 €
HSS10-70	M10	70	1,50	16,4	18,27	4,9	Ø12 $^{-0,016}_{-0,059}$	8,0	6	✔	11,76 €
HSS10-80	M10	80	1,50	16,4	18,27	4,9	Ø12 $^{-0,016}_{-0,059}$	8,0	6	-	15,16 €
HSS10-90	M10	90	1,50	16,4	18,27	4,9	Ø12 $^{-0,016}_{-0,059}$	8,0	6	-	17,42 €
HSS10-100	M10	100	1,50	16,4	18,27	4,9	Ø12 $^{-0,016}_{-0,059}$	8,0	6	✔	20,68 €
HSS12-30	M12	30	1,75	18,4	24,33	6,6	Ø16 $^{-0,016}_{-0,059}$	10,0	8	✔	14,17 €
HSS12-40	M12	40	1,75	18,4	24,33	6,6	Ø16 $^{-0,016}_{-0,059}$	10,0	8	✔	15,32 €
HSS12-50	M12	50	1,75	18,4	24,33	6,6	Ø16 $^{-0,016}_{-0,059}$	10,0	8	-	15,95 €
HSS12-60	M12	60	1,75	18,4	24,33	6,6	Ø16 $^{-0,016}_{-0,059}$	10,0	8	✔	19,00 €
HSS12-70	M12	70	1,75	18,4	24,33	6,6	Ø16 $^{-0,016}_{-0,059}$	10,0	8	✔	19,72 €
HSS12-80	M12	80	1,75	18,4	24,33	6,6	Ø16 $^{-0,016}_{-0,059}$	10,0	8	✔	20,97 €
HSS12-90	M12	90	1,75	18,4	24,33	6,6	Ø16 $^{-0,016}_{-0,059}$	10,0	8	-	23,36 €
HSS12-120	M12	120	1,75	18,4	24,33	6,6	Ø16 $^{-0,016}_{-0,059}$	10,0	8	-	39,54 €

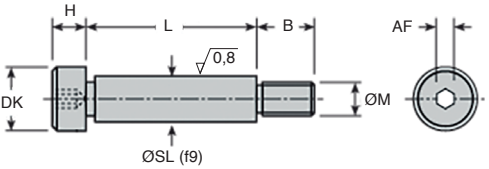
*Depending on availability - Dimensions in mm

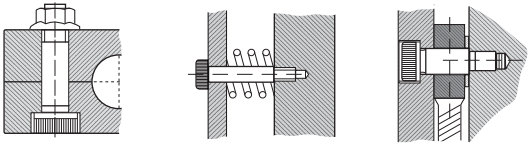
ISO 7379 stainless steel shoulder screw

HSSss — Stainless steel A2

- ***Centering and clamping function***
- *Ground shoulder, tolerance f9*
- *Material:*
  Stainless steel A2







Part number	Thread ØM	Pas	L	ØSL (f9)	B	DK	H	AF	Stock*	Price each 1 to 5
HSS5-10/SS/B	M5	0,80	10	6	9,50	10,22	4,5	3	✔	34,05 €
HSS5-12/SS/B	M5	0,80	12	6	9,50	10,22	4,5	3	✔	36,68 €
HSS5-16/SS/B	M5	0,80	16	6	9,50	10,22	4,5	3	-	36,56 €
HSS5-20/SS/B	M5	0,80	20	6	9,50	10,22	4,5	3	-	42,85 €
HSS5-25/SS/B	M5	0,80	25	6	9,50	10,22	4,5	3	✔	51,48 €
HSS5-30/SS/B	M5	0,80	30	6	9,50	10,22	4,5	3	✔	55,15 €
HSS5-40/SS/B	M5	0,80	40	6	9,50	10,22	4,5	3	✔	60,15 €

**Depending on availability - Dimensions in mm*

Part number	Thread ØM	Pas	L	ØSL (f9)	B	DK	H	AF	Stock*	Price each 1 to 5
HSS6-12/SS/B	M6	1,00	12	8	11,00	13,27	5,5	4	✔	39,06 €
HSS6-16/SS/B	M6	1,00	16	8	11,00	13,27	5,5	4	-	49,58 €
HSS6-20/SS/B	M6	1,00	20	8	11,00	13,27	5,5	4	✔	51,05 €
HSS6-25/SS/B	M6	1,00	25	8	11,00	13,27	5,5	4	-	52,18 €
HSS6-30/SS/B	M6	1,00	30	8	11,00	13,27	5,5	4	✔	48,03 €
HSS6-40/SS/B	M6	1,00	40	8	11,00	13,27	5,5	4	✔	59,34 €
HSS6-50/SS/B	M6	1,00	50	8	11,00	13,27	5,5	4	✔	71,92 €
HSS8-16/SS/B	M8	1,25	16	10	13,00	16,27	7	5	✔	57,39 €
HSS8-20/SS/B	M8	1,25	20	10	13,00	16,27	7	5	✔	59,26 €
HSS8-25/SS/B	M8	1,25	25	10	13,00	16,27	7	5	-	83,55 €
HSS8-30/SS/B	M8	1,25	30	10	13,00	16,27	7	5	-	54,25 €
HSS8-40/SS/B	M8	1,25	40	10	13,00	16,27	7	5	-	66,80 €
HSS8-50/SS/B	M8	1,25	50	10	13,00	16,27	7	5	-	77,92 €
HSS8-60/SS/B	M8	1,25	60	10	13,00	16,27	7	5	-	91,39 €
HSS8-70/SS/B	M8	1,25	70	10	13,00	16,27	7	5	-	102,20 €
HSS8-80/SS/B	M8	1,25	80	10	13,00	16,27	7	5	-	106,91 €
HSS10-16/SS/B	M10	1,50	16	12	16,00	18,27	9	6	✔	34,92 €
HSS10-20/SS/B	M10	1,50	20	12	16,00	18,27	9	6	✔	38,06 €
HSS10-25/SS/B	M10	1,50	25	12	16,00	18,27	9	6	-	39,80 €
HSS10-30/SS/B	M10	1,50	30	12	16,00	18,27	9	6	-	41,41 €
HSS10-40/SS/B	M10	1,50	40	12	16,00	18,27	9	6	✔	47,32 €
HSS10-50/SS/B	M10	1,50	50	12	16,00	18,27	9	6	-	47,23 €
HSS10-60/SS/B	M10	1,50	60	12	16,00	18,27	9	6	-	47,69 €
HSS10-70/SS/B	M10	1,50	70	12	16,00	18,27	9	6	-	57,62 €
HSS10-80/SS/B	M10	1,50	80	12	16,00	18,27	9	6	-	62,85 €
HSS10-100/SS/B	M10	1,50	100	12	16,00	18,27	9	6	-	67,17 €
HSS12-30/SS/B	M12	1,75	30	16	18,00	24,33	11	8	-	65,00 €
HSS12-40/SS/B	M12	1,75	40	16	18,00	24,33	11	8	✔	73,69 €
HSS12-50/SS/B	M12	1,75	50	16	18,00	24,33	11	8	-	89,74 €
HSS12-60/SS/B	M12	1,75	60	16	18,00	24,33	11	8	-	101,68 €
HSS12-70/SS/B	M12	1,75	70	16	18,00	24,33	11	8	-	111,97 €
HSS12-80/SS/B	M12	1,75	80	16	18,00	24,33	11	8	-	145,94 €
HSS12-100/SS/B	M12	1,75	100	16	18,00	24,33	11	8	-	165,24 €
HSS16-40/SS/B	M16	2,00	40	20	22,00	30,33	14	10	-	On request
HSS16-50/SS/B	M16	2,00	50	20	22,00	30,33	14	10	✔	122,00 €
HSS16-60/SS/B	M16	2,00	60	20	22,00	30,33	14	10	-	112,16 €
HSS16-70/SS/B	M16	2,00	70	20	22,00	30,33	14	10	-	142,27 €
HSS16-80/SS/B	M16	2,00	80	20	22,00	30,33	14	10	-	168,81 €

*Depending on availability - Dimensions in mm

Shoulder screw stainless steel 303 Sta Stock

SHS

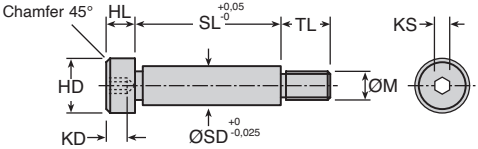
Stainless steel 550 N/mm²

- ***Material: Stainless steel 303***
- *For centering as well as holding*
- *Working temperature up to +430°C*
- *Hexagonal socket head*
- *Traction resistance: 550N/mm²*
- ***Not sold individually, please contact us for details***



Uses

- *For use in harsh environments*



DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+	300+
Disc.	List	-10%	-15%	-20%	-30%	-55%	On request

Part number	Thread ØM	SD	SL	HD	HL	TL	KS	KD	Stock*	Price each 1 to 5
SHS3-4	M3	3,987	4,013	6	3	4	2,0	1,6	✔	8,89 €
SHS3-5	M3	3,987	5,013	6	3	4	2,0	1,6	✔	8,89 €
SHS3-6	M3	3,987	6,013	6	3	4	2,0	1,6	✔	8,89 €
SHS3-8	M3	3,987	8,013	6	3	4	2,0	1,6	✔	8,89 €
SHS3-10	M3	3,987	10,013	6	3	4	2,0	1,6	✔	8,89 €

**Depending on availability - Dimensions in mm*

DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+	300+
Disc.	List	-10%	-15%	-20%	-30%	-55%	On request

Part number	Thread ØM	SD	SL	HD	HL	TL	KS	KD	Stock*	Price each 1 to 5
SHS4-4	M4	4,987	4,013	8	4	5	2,5	2,0	✔	8,89 €
SHS4-5	M4	4,987	5,013	8	4	5	2,5	2,0	✔	8,89 €
SHS4-6	M4	4,987	6,013	8	4	5	2,5	2,0	✔	8,89 €
SHS4-8	M4	4,987	8,013	8	4	5	2,5	2,0	✔	8,89 €
SHS4-10	M4	4,987	10,013	8	4	5	2,5	2,0	✔	8,89 €
SHS4-12	M4	4,987	12,013	8	4	5	2,5	2,0	✔	10,12 €
SHS4-14	M4	4,987	14,013	8	4	5	2,5	2,0	✔	10,12 €
SHS4-16	M4	4,987	16,013	8	4	5	2,5	2,0	✔	10,12 €
SHS4-20	M4	4,987	20,013	8	4	5	2,5	2,0	✔	10,12 €
SHS4-25	M4	4,987	25,013	8	4	5	2,5	2,0	✔	12,67 €
SHS4-30	M4	4,987	30,013	8	4	5	2,5	2,0	✔	12,67 €
SHS5-4	M5	5,987	4,013	10	5	6	3,0	2,4	✔	8,89 €
SHS5-5	M5	5,987	5,013	10	5	6	3,0	2,4	✔	8,89 €
SHS5-6	M5	5,987	6,013	10	5	6	3,0	2,4	✔	8,89 €
SHS5-8	M5	5,987	8,013	10	5	6	3,0	2,4	✔	8,89 €
SHS5-10	M5	5,987	10,013	10	5	6	3,0	2,4	✔	8,89 €
SHS5-12	M5	5,987	12,013	10	5	6	3,0	2,4	✔	10,12 €
SHS5-14	M5	5,987	14,013	10	5	6	3,0	2,4	✔	10,12 €
SHS5-16	M5	5,987	16,013	10	5	6	3,0	2,4	✔	13,57 €
SHS5-20	M5	5,987	20,013	10	5	6	3,0	2,4	✔	14,65 €
SHS5-25	M5	5,987	25,013	10	5	6	3,0	2,4	✔	14,65 €
SHS5-30	M5	5,987	30,013	10	5	6	3,0	2,4	✔	14,65 €
SHS6-6	M6	7,987	6,013	12	6	11	4,0	3,2	✔	14,65 €
SHS6-8	M6	7,987	8,013	12	6	11	4,0	3,2	✔	14,65 €
SHS6-10	M6	7,987	10,013	12	6	11	4,0	3,2	✔	14,65 €
SHS6-12	M6	7,987	12,013	12	6	11	4,0	3,2	✔	14,65 €
SHS6-16	M6	7,987	16,013	12	6	11	4,0	3,2	✔	14,65 €
SHS6-20	M6	7,987	20,013	12	6	11	4,0	3,2	✔	14,65 €
SHS6-25	M6	7,987	25,013	12	6	11	4,0	3,2	✔	18,59 €
SHS6-30	M6	7,987	30,013	12	6	11	4,0	3,2	✔	18,59 €
SHS6.1-8/SD	M6	9,987	8,013	12	6	11	4,0	3,2	-	25,43 €
SHS6.1-10/SD	M6	9,987	10,013	12	6	11	4,0	3,2	✔	25,43 €
SHS6.1-12/SD	M6	9,987	12,013	12	6	11	4,0	3,2	-	25,43 €
SHS6.1-16/SD	M6	9,987	16,013	12	6	11	4,0	3,2	-	25,43 €
SHS8-8	M8	9,987	8,013	14	7	12	5,0	4,0	✔	18,37 €
SHS8-10	M8	9,987	10,013	14	7	12	5,0	4,0	✔	18,37 €
SHS8-12	M8	9,987	12,013	14	7	12	5,0	4,0	✔	18,37 €
SHS8-16	M8	9,987	16,013	14	7	12	5,0	4,0	✔	18,37 €
SHS8-25	M8	9,987	25,013	14	7	12	5,0	4,0	✔	26,17 €
SHS8-30	M8	9,987	30,013	14	7	12	5,0	4,0	✔	26,17 €
SHS10-12	M10	11,987	12,013	20	8	16	6,0	4,8	✔	31,94 €
SHS10-16	M10	11,987	16,013	20	8	16	6,0	4,8	✔	31,94 €
SHS10-20	M10	11,987	20,013	20	8	16	6,0	4,8	✔	31,94 €
SHS10-25	M10	11,987	25,013	20	8	16	6,0	4,8	✔	31,94 €
SHS10-30	M10	11,987	30,013	20	8	16	6,0	4,8	✔	51,58 €

*Depending on availability - Dimensions in mm

Shoulder screw stainless steel 416 Sta Stock

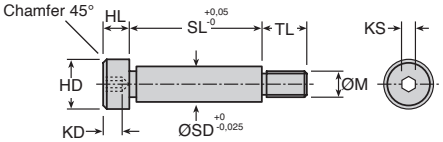
SHss S/steel pre-treated 850-1000N/mm²

- ***Material: pre-treated stainless steel 416 26-32 HRc***
- *For centering as well as holding*
- *Working temperature up to +430°C*
- *Hexagonal socket head*
- *Traction resistance 850-1000 N/mm²*

Uses

- *For use in harsh environments*





DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+	300+
Disc.	List	-10%	-15%	-20%	-30%	-55%	On request

Part number	Thread ØM	SD	SL	HD	HL	TL	KS	KD	Stock*	Price each 1 to 5
SHSS3-4	M3	3,987	4,013	6	3	4	2,0	1,6	✔	20,97 €
SHSS3-5	M3	3,987	5,013	6	3	4	2,0	1,6	✔	20,97 €
SHSS3-6	M3	3,987	6,013	6	3	4	2,0	1,6	✔	20,97 €
SHSS3-8	M3	3,987	8,013	6	3	4	2,0	1,6	✔	20,97 €
SHSS3-10	M3	3,987	10,013	6	3	4	2,0	1,6	✔	20,97 €

**Depending on availability - Dimensions in mm*

DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+	300+
Disc.	List	-10%	-15%	-20%	-30%	-55%	On request

Part number	Thread ØM	SD	SL	HD	HL	TL	KS	KD	Stock*	Price each 1 to 5
SHSS4-4	M4	4,987	4,013	8	4	5	2,5	2,0	✔	20,97 €
SHSS4-5	M4	4,987	5,013	8	4	5	2,5	2,0	✔	20,97 €
SHSS4-6	M4	4,987	6,013	8	4	5	2,5	2,0	✔	20,97 €
SHSS4-8	M4	4,987	8,013	8	4	5	2,5	2,0	✔	20,97 €
SHSS4-10	M4	4,987	10,013	8	4	5	2,5	2,0	✔	20,97 €
SHSS4-12	M4	4,987	12,013	8	4	5	2,5	2,0	✔	23,90 €
SHSS4-14	M4	4,987	14,013	8	4	5	2,5	2,0	✔	23,90 €
SHSS4-16	M4	4,987	16,013	8	4	5	2,5	2,0	✔	23,90 €
SHSS4-20	M4	4,987	20,013	8	4	5	2,5	2,0	✔	23,90 €
SHSS4-25	M4	4,987	25,013	8	4	5	2,5	2,0	✔	29,91 €
SHSS4-30	M4	4,987	30,013	8	4	5	2,5	2,0	✔	29,91 €
SHSS5-4	M5	5,987	4,013	10	5	6	3,0	2,4	-	20,97 €
SHSS5-5	M5	5,987	5,013	10	5	6	3,0	2,4	✔	20,97 €
SHSS5-6	M5	5,987	6,013	10	5	6	3,0	2,4	✔	20,97 €
SHSS5-8	M5	5,987	8,013	10	5	6	3,0	2,4	✔	20,97 €
SHSS5-10	M5	5,987	10,013	10	5	6	3,0	2,4	✔	20,97 €
SHSS5-12	M5	5,987	12,013	10	5	6	3,0	2,4	✔	23,90 €
SHSS5-14	M5	5,987	14,013	10	5	6	3,0	2,4	✔	23,90 €
SHSS5-16	M5	5,987	16,013	10	5	6	3,0	2,4	✔	23,90 €
SHSS5-20	M5	5,987	20,013	10	5	6	3,0	2,4	✔	34,37 €
SHSS5-25	M5	5,987	25,013	10	5	6	3,0	2,4	✔	34,37 €
SHSS5-30	M5	5,987	30,013	10	5	6	3,0	2,4	✔	34,37 €
SHSS6-6	M6	7,987	6,013	12	6	11	4,0	3,2	✔	25,59 €
SHSS6-8	M6	7,987	8,013	12	6	11	4,0	3,2	-	25,59 €
SHSS6-10	M6	7,987	10,013	12	6	11	4,0	3,2	✔	25,59 €
SHSS6-12	M6	7,987	12,013	12	6	11	4,0	3,2	✔	25,59 €
SHSS6-16	M6	7,987	16,013	12	6	11	4,0	3,2	✔	25,59 €
SHSS6-20	M6	7,987	20,013	12	6	11	4,0	3,2	✔	25,59 €
SHSS6-25	M6	7,987	25,013	12	6	11	4,0	3,2	-	69,08 €
SHSS6-30	M6	7,987	30,013	12	6	11	4,0	3,2	-	69,08 €
SHSS8-8	M8	9,987	8,013	14	7	12	5,0	4,0	-	31,97 €
SHSS8-10	M8	9,987	10,013	14	7	12	5,0	4,0	✔	31,97 €
SHSS8-12	M8	9,987	12,013	14	7	12	5,0	4,0	-	52,23 €
SHSS8-16	M8	9,987	16,013	14	7	12	5,0	4,0	✔	39,08 €
SHSS8-20	M8	9,987	20,013	14	7	12	5,0	4,0	✔	39,08 €
SHSS8-25	M8	9,987	25,013	14	7	12	5,0	4,0	-	45,11 €
SHSS8-30	M8	9,987	30,013	14	7	12	6,0	4,0	-	39,08 €
SHSS10-12	M10	11,987	12,013	20	8	16	6,0	4,8	✔	39,36 €
SHSS10-16	M10	11,987	16,013	20	8	16	6,0	4,8	✔	47,40 €
SHSS10-20	M10	11,987	20,013	20	8	16	6,0	4,8	✔	39,36 €
SHSS10-25	M10	11,987	25,013	20	8	16	6,0	4,8	✔	39,36 €
SHSS10-30	M10	11,987	30,013	20	8	16	6,0	4,8	-	On request

*Depending on availability - Dimensions in mm

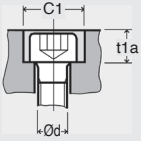
Socket-head screw DIN 912

CHC — Steel quality class 12.9

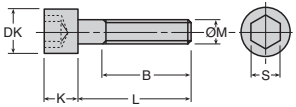
- ***Conforms to ISO 4762 and DIN 912***
- *Screw quality class 12.9*
- *Material: Hardened steel 39-44 HRc (oil-hardened)*
- *Tensile strength: 1220N/mm²*
- *Elastic limit: 1100N/mm²*
- *Shear strength: 732N/mm²*
- *Max. locking torque: CHC3 = 2 Nm, CHC4 = 4.6 Nm, CHC5 = 9 Nm, CHC6 = 15.7 Nm*
- ***Sold by the packet***



Designer's note



Nominal diameter d	Cylindrical screw C1 min.	t1a min.	t1b min.
M1,6	5	1,7	1,2
M2	6	2,1	1,5
M2,5	7	2,7	1,8
M3	8	3,2	2,1
M4	10	4,2	3,0
M5	11	5,3	3,7
M6	13	6,3	4,2
M8	18	8,4	5,3
M10	20	10,5	6,3
M12	22	12,6	7,4



DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-20%	On request

Part number	Thread ØM	Total length L	Pitch	B	DK	K	S	Qty per packet	Stock*	Price per packet
CHC1.6-4/B	M1,6	4	0,35	4	3,00	1,60	1,50	200	-	116,91 €
CHC1.6-6/B	M1,6	6	0,35	6	3,00	1,60	1,50	200	✔	116,91 €
CHC2-4/B	M2	4	0,40	4	3,80	2,00	1,50	200	✔	34,66 €
CHC2-5/B	M2	5	0,40	5	3,80	2,00	1,50	200	-	25,05 €
CHC2-6/B	M2	6	0,40	6	3,80	2,00	1,50	200	✔	27,21 €
CHC2-8/B	M2	8	0,40	8	3,80	2,00	1,50	200	✔	25,05 €
CHC2-10/B	M2	10	0,40	10	3,80	2,00	1,50	200	✔	25,05 €
CHC2-12/B	M2	12	0,40	12	3,80	2,00	1,50	200	✔	29,00 €
CHC2.5-5/B	M2,5	5	0,45	5	4,50	2,50	2,00	200	-	32,50 €
CHC2.5-6/B	M2,5	6	0,45	6	4,50	2,50	2,00	200	✔	32,50 €
CHC2.5-8/B	M2,5	8	0,45	8	4,50	2,50	2,00	200	-	32,50 €
CHC2.5-10/B	M2,5	10	0,45	10	4,50	2,50	2,00	200	✔	52,38 €
CHC2.5-12/B	M2,5	12	0,45	12	4,50	2,50	2,00	200	✔	42,53 €
CHC3-6/B	M3	6	0,50	6	5,68	3,00	2,50	200	✔	11,41 €
CHC3-8/B	M3	8	0,50	8	5,68	3,00	2,50	200	✔	8,67 €
CHC3-10/B	M3	10	0,50	10	5,68	3,00	2,50	200	✔	12,00 €
CHC3-12/B	M3	12	0,50	12	5,68	3,00	2,50	200	✔	12,37 €
CHC3-16/B	M3	16	0,50	16	5,68	3,00	2,50	200	✔	14,70 €
CHC3-20/B	M3	20	0,50	20	5,68	3,00	2,50	200	✔	16,16 €
CHC3-25/B	M3	25	0,50	18	5,68	3,00	2,50	200	-	18,29 €
CHC3-30/B	M3	30	0,50	18	5,68	3,00	2,50	200	✔	37,87 €
CHC3-35/B	M3	35	0,50	18	5,68	3,00	2,50	200	-	124,71 €

**Depending on availability - Dimensions in mm*

Part number	Thread ØM	Total length L	Pitch	B	DK	K	S	Qty per packet	Stock*	Price per packet
CHC4-6/B	M4	6	0,70	6	7,22	4	3	200	-	18,32 €
CHC4-8/B	M4	8	0,70	8	7,22	4	3	200	✔	10,44 €
CHC4-10/B	M4	10	0,70	10	7,22	4	3	200	✔	15,16 €
CHC4-12/B	M4	12	0,70	12	7,22	4	3	200	✔	10,94 €
CHC4-14/B	M4	14	0,70	14	7,22	4	3	200	✔	18,96 €
CHC4-16/B	M4	16	0,70	16	7,22	4	3	200	✔	10,43 €
CHC4-20/B	M4	20	0,70	20	7,22	4	3	200	✔	12,74 €
CHC4-25/B	M4	25	0,70	25	7,22	4	3	200	✔	13,63 €
CHC4-30/B	M4	30	0,70	20	7,22	4	3	200	✔	14,36 €
CHC4-35/B	M4	35	0,70	20	7,22	4	3	100	✔	9,51 €
CHC4-40/B	M4	40	0,70	20	7,22	4	3	100	✔	9,62 €
CHC4-45/B	M4	45	0,70	20	7,22	4	3	100	-	13,96 €
CHC4-50/B	M4	50	0,70	20	7,22	4	3	200	✔	30,38 €
CHC5-8/B	M5	8	0,80	8	8,72	5	4	200	✔	16,38 €
CHC5-10/B	M5	10	0,80	10	8,72	5	4	200	✔	10,98 €
CHC5-12/B	M5	12	0,80	12	8,72	5	4	200	✔	13,85 €
CHC5-16/B	M5	16	0,80	16	8,72	5	4	200	✔	16,21 €
CHC5-18/B	M5	18	0,80	18	8,72	5	4	200	-	19,18 €
CHC5-20/B	M5	20	0,80	20	8,72	5	4	200	✔	15,49 €
CHC5-25/B	M5	25	0,80	25	8,72	5	4	200	✔	30,30 €
CHC5-30/B	M5	30	0,80	22	8,72	5	4	200	✔	20,09 €
CHC5-35/B	M5	35	0,80	22	8,72	5	4	100	✔	10,97 €
CHC5-40/B	M5	40	0,80	22	8,72	5	4	100	✔	12,14 €
CHC5-45/B	M5	45	0,80	22	8,72	5	4	100	-	11,06 €
CHC5-50/B	M5	50	0,80	22	8,72	5	4	100	✔	15,68 €
CHC5-60/B	M5	60	0,80	22	8,72	5	4	100	-	20,21 €
CHC5-70/B	M5	70	0,80	22	8,72	5	4	100	-	31,85 €
CHC6-8/B	M6	8	1,00	8	10,22	6	5	200	✔	35,51 €
CHC6-10/B	M6	10	1,00	10	10,22	6	5	200	✔	19,86 €
CHC6-12/B	M6	12	1,00	12	10,22	6	5	200	✔	20,70 €
CHC6-16/B	M6	16	1,00	16	10,22	6	5	200	✔	17,11 €
CHC6-18/B	M6	18	1,00	18	10,22	6	5	200	-	30,86 €
CHC6-20/B	M6	20	1,00	20	10,22	6	5	200	✔	17,11 €
CHC6-25/B	M6	25	1,00	25	10,22	6	5	200	✔	19,08 €
CHC6-30/B	M6	30	1,00	30	10,22	6	5	200	✔	21,71 €
CHC6-35/B	M6	35	1,00	24	10,22	6	5	100	✔	12,93 €
CHC6-40/B	M6	40	1,00	24	10,22	6	5	100	✔	14,03 €
CHC6-45/B	M6	45	1,00	24	10,22	6	5	100	-	13,62 €
CHC6-50/B	M6	50	1,00	24	10,22	6	5	100	✔	20,12 €
CHC6-55/B	M6	55	1,00	24	10,22	6	5	100	-	39,24 €
CHC6-60/B	M6	60	1,00	24	10,22	6	5	100	✔	22,97 €
CHC6-70/B	M6	70	1,00	24	10,22	6	5	100	-	32,20 €
CHC6-80/B	M6	80	1,00	24	10,22	6	5	100	-	34,98 €
CHC6-90/B	M6	90	1,00	24	10,22	6	5	100	-	44,32 €
CHC6-100/B	M6	100	1,00	24	10,22	6	5	100	-	50,31 €
CHC6-110/B	M6	110	1,00	24	10,22	6	5	100	-	68,66 €

*Depending on availability - Dimensions in mm

Socket-head screw DIN 912

CHC

Steel quality class 12.9

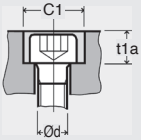
- **Conforms to ISO 4762 and DIN 912**
- Screw quality class 12.9
- Material: Hardened steel 39-44 HRc (oil-hardened)
- Tensile strength: 1220N/mm²
- Elastic limit: 1100N/mm²
- Shear strength: 732N/mm²
- Max. locking torque: CHC3 = 2 Nm, CHC4 = 4.6 Nm, CHC5 = 9 Nm, CHC6 = 15.7 Nm



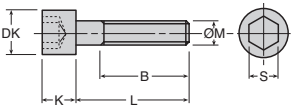
Info.

- Supplied by pack

Designer's note



Nominal diameter d	Cylindrical screw C1 min.	t1a min.	t1b min.
M1,6	5	1,7	1,2
M2	6	2,1	1,5
M2,5	7	2,7	1,8
M3	8	3,2	2,1
M4	10	4,2	3,0
M5	11	5,3	3,7
M6	13	6,3	4,2
M8	18	8,4	5,3
M10	20	10,5	6,3
M12	22	12,6	7,4

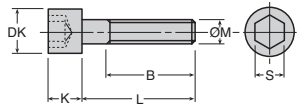


DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-20%	On request

Part number	Thread ØM	Total length L	Pitch	B	DK	K	S	Qty per packet	Stock*	Price per packet
CHC8-12/B	M8	12	1,25	12	13,27	8	6	200	-	46,66 €
CHC8-16/B	M8	16	1,25	16	13,27	8	6	200	✔	40,22 €
CHC8-20/B	M8	20	1,25	20	13,27	8	6	200	✔	34,22 €
CHC8-25/B	M8	25	1,25	25	13,27	8	6	200	✔	42,35 €
CHC8-30/B	M8	30	1,25	30	13,27	8	6	200	✔	39,95 €
CHC8-35/B	M8	35	1,25	35	13,27	8	6	100	✔	28,02 €
CHC8-40/B	M8	40	1,25	28	13,27	8	6	100	✔	31,05 €
CHC8-45/B	M8	45	1,25	28	13,27	8	6	100	-	34,45 €
CHC8-50/B	M8	50	1,25	28	13,27	8	6	100	✔	27,19 €
CHC8-60/B	M8	60	1,25	28	13,27	8	6	100	✔	43,56 €
CHC8-70/B	M8	70	1,25	28	13,27	8	6	100	-	57,98 €
CHC8-80/B	M8	80	1,25	28	13,27	8	6	100	-	60,79 €
CHC8-90/B	M8	90	1,25	28	13,27	8	6	50	-	38,36 €
CHC8-100/B	M8	100	1,25	28	13,27	8	6	50	-	29,02 €
CHC8-110/B	M8	110	1,25	28	13,27	8	6	50	-	40,37 €
CHC8-120/B	M8	120	1,25	28	13,27	8	6	50	-	53,30 €
CHC8-130/B	M8	130	1,25	28	13,27	8	6	50	-	57,02 €

*Depending on availability - Dimensions in mm



DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-20%	On request

Part number	Thread ØM	Total length L	Pitch	B	DK	K	S	Qty per packet	Stock*	Price per packet
CHC10-16/B	M10	16	1,50	16	16,27	10	8	100	-	38,71 €
CHC10-20/B	M10	20	1,50	20	16,27	10	8	100	-	25,35 €
CHC10-25/B	M10	25	1,50	25	16,27	10	8	100	-	28,10 €
CHC10-30/B	M10	30	1,50	30	16,27	10	8	100	✔	63,80 €
CHC10-35/B	M10	35	1,50	35	16,27	10	8	100	-	33,68 €
CHC10-40/B	M10	40	1,50	40	16,27	10	8	100	-	43,14 €
CHC10-50/B	M10	50	1,50	32	16,27	10	8	100	✔	44,46 €
CHC10-60/B	M10	60	1,50	32	16,27	10	8	100	-	51,59 €
CHC10-70/B	M10	70	1,50	32	16,27	10	8	50	✔	28,76 €
CHC10-80/B	M10	80	1,50	32	16,27	10	8	50	✔	45,05 €
CHC12-20/B	M12	20	1,75	20	18,27	12	10	50	-	29,21 €
CHC12-25/B	M12	25	1,75	25	18,27	12	10	50	-	20,28 €
CHC12-30/B	M12	30	1,75	30	18,27	12	10	50	✔	30,97 €
CHC12-35/B	M12	35	1,75	35	18,27	12	10	50	-	24,49 €
CHC12-40/B	M12	40	1,75	40	18,27	12	10	50	-	34,14 €
CHC12-50/B	M12	50	1,75	36	18,27	12	10	50	-	43,65 €
CHC12-60/B	M12	60	1,75	36	18,27	12	10	50	-	39,77 €
CHC12-70/B	M12	70	1,75	36	18,27	12	10	50	-	41,48 €
CHC12-80/B	M12	80	1,75	36	18,27	12	10	50	-	47,55 €
CHC12-90/B	M12	90	1,75	36	18,27	12	10	50	-	53,21 €
CHC12-100/B	M12	100	1,75	36	18,27	12	10	50	-	58,23 €
CHC12-110/B	M12	110	1,75	36	18,27	12	10	50	-	64,99 €
CHC12-120/B	M12	120	1,75	36	18,27	12	10	50	-	69,17 €
CHC12-130/B	M12	130	1,75	36	18,27	12	10	50	-	105,09 €
CHC12-140/B	M12	140	1,75	36	18,27	12	10	50	-	113,68 €
CHC12-150/B	M12	150	1,75	36	18,27	12	10	50	-	148,99 €
CHC12-160/B	M12	160	1,75	36	18,27	12	10	25	-	94,54 €
CHC12-180/B	M12	180	1,75	36	18,27	12	10	25	-	105,53 €
CHC12-200/B	M12	200	1,75	36	18,27	12	10	25	-	142,53 €

*Depending on availability - Dimensions in mm

Socket-head screw DIN 912

Stock Sta DIN

CHCss — Stainless steel A2

- **Conforms to ISO 4762 and DIN 912**
- Material: Stainless steel 302/304 - A2
- Hexagonal socket
- Sold by the packet

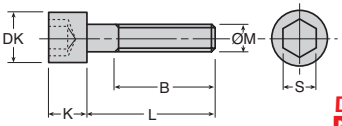


Uses

- Suitable for harsh environments

Info.

- Supplied by pack



DISCOUNTS

No. packets	1+	2+	4+
Discounts	List	-20%	On request

Part number	Thread ØM	Total length L	Pitch	B	DK	K	S	Qty per packet	Stock*	Price per packet
CHC1.6-5/SS/B	M1,6	0,35	5	-	3,0	1,6	1,5	200	-	21,66 €
CHC1.6-8/SS/B	M1,6	0,35	8	-	3,0	1,6	1,5	200	-	13,59 €
CHC1.6-10/SS/B	M1,6	0,35	10	-	3,0	1,6	1,5	200	-	16,90 €
CHC2-4/SS/B	M2	0,40	4	-	3,8	2,0	1,5	500	-	13,96 €
CHC2-5/SS/B	M2	0,40	5	-	3,8	2,0	1,5	500	✔	18,73 €
CHC2-6/SS/B	M2	0,40	6	-	3,8	2,0	1,5	500	✔	30,01 €
CHC2-8/SS/B	M2	0,40	8	-	3,8	2,0	1,5	500	✔	23,15 €
CHC2-10/SS/B	M2	0,40	10	-	3,8	2,0	1,5	500	✔	25,25 €
CHC2-12/SS/B	M2	0,40	12	-	3,8	2,0	1,5	500	✔	22,60 €
CHC2-20/SS/B	M2	0,40	20	-	3,8	2,0	1,5	500	✔	30,50 €
CHC2.5-4/SS/B	M2,5	0,45	4	-	4,5	2,5	2,0	500	-	15,80 €
CHC2.5-5/SS/B	M2,5	0,45	5	-	4,5	2,5	2,0	500	-	15,24 €
CHC2.5-6/SS/B	M2,5	0,45	6	-	4,5	2,5	2,0	500	-	37,17 €
CHC2.5-8/SS/B	M2,5	0,45	8	-	4,5	2,5	2,0	500	✔	34,79 €
CHC2.5-10/SS/B	M2,5	0,45	10	-	4,5	2,5	2,0	500	✔	17,44 €
CHC2.5-16/SS/B	M2,5	0,45	16	-	4,5	2,5	2,0	500	✔	32,54 €
CHC2.5-20/SS/B	M2,5	0,45	20	-	4,5	2,5	2,0	500	✔	27,19 €
CHC3-6/SS/B	M3	0,50	6	-	5,5	3,0	2,5	1000	✔	29,45 €
CHC3-8/SS/B	M3	0,50	8	-	5,5	3,0	2,5	1000	✔	31,98 €
CHC3-10/SS/B	M3	0,50	10	-	5,5	3,0	2,5	1000	✔	27,19 €
CHC3-12/SS/B	M3	0,50	12	-	5,5	3,0	2,5	1000	✔	34,79 €
CHC3-16/SS/B	M3	0,50	16	-	5,5	3,0	2,5	1000	✔	31,23 €
CHC3-20/SS/B	M3	0,50	20	-	5,5	3,0	2,5	1000	✔	58,35 €
CHC3-25/SS/B	M3	0,50	25	18	5,5	3,0	2,5	1000	✔	69,57 €
CHC3-30/SS/B	M3	0,50	30	18	5,5	3,0	2,5	1000	-	54,38 €
CHC3-35/SS/B	M3	0,50	35	18	5,5	3,0	2,5	500	-	29,76 €
CHC4-6/SS/B	M4	0,70	6	-	7,0	4,0	3,0	500	✔	15,97 €
CHC4-8/SS/B	M4	0,70	8	-	7,0	4,0	3,0	500	✔	21,85 €
CHC4-10/SS/B	M4	0,70	10	-	7,0	4,0	3,0	500	✔	17,08 €

*Depending on availability - Dimensions in mm

DISCOUNTS

No. packets	1+	2+	4+
Discounts	List	-20%	On request

Part number	Thread ØM	Pitch	Total length L	B	DK	K	S	Qty per packet	Stock*	Price per packet
CHC4-12/SS/B	M4	0,70	12	-	7,0	4	3	500	✔	18,18 €
CHC4-16/SS/B	M4	0,70	16	-	7,0	4	3	500	✔	39,69 €
CHC4-20/SS/B	M4	0,70	20	-	7,0	4	3	500	✔	26,59 €
CHC4-25/SS/B	M4	0,70	25	-	7,0	4	3	500	✔	25,72 €
CHC4-30/SS/B	M4	0,70	30	20	7,0	4	3	500	✔	36,55 €
CHC4-35/SS/B	M4	0,70	35	20	7,0	4	3	500	✔	41,38 €
CHC4-40/SS/B	M4	0,70	40	20	7,0	4	3	500	✔	42,79 €
CHC4-50/SS/B	M4	0,70	50	20	7,0	4	3	200	✔	37,98 €
CHC5-8/SS/B	M5	0,80	8	-	8,5	5	4	500	✔	27,73 €
CHC5-10/SS/B	M5	0,80	10	-	8,5	5	4	500	✔	33,07 €
CHC5-12/SS/B	M5	0,80	12	-	8,5	5	4	500	✔	25,90 €
CHC5-16/SS/B	M5	0,80	16	-	8,5	5	4	500	✔	37,10 €
CHC5-20/SS/B	M5	0,80	20	-	8,5	5	4	500	✔	39,12 €
CHC5-25/SS/B	M5	0,80	25	-	8,5	5	4	500	✔	36,00 €
CHC5-30/SS/B	M5	0,80	30	22	8,5	5	4	500	✔	41,32 €
CHC5-35/SS/B	M5	0,80	35	22	8,5	5	4	500	✔	76,44 €
CHC5-40/SS/B	M5	0,80	40	22	8,5	5	4	500	✔	59,25 €
CHC5-50/SS/B	M5	0,80	50	22	8,5	5	4	200	✔	29,17 €
CHC6-8/SS/B	M6	1,00	8	-	10,0	6	5	500	-	51,80 €
CHC6-10/SS/B	M6	1,00	10	-	10,0	6	5	500	✔	39,41 €
CHC6-12/SS/B	M6	1,00	12	-	10,0	6	5	500	✔	53,01 €
CHC6-16/SS/B	M6	1,00	16	-	10,0	6	5	500	✔	46,99 €
CHC6-20/SS/B	M6	1,00	20	-	10,0	6	5	500	✔	51,33 €
CHC6-25/SS/B	M6	1,00	25	-	10,0	6	5	500	✔	78,69 €
CHC6-30/SS/B	M6	1,00	30	-	10,0	6	5	500	✔	86,96 €
CHC6-35/SS/B	M6	1,00	35	24	10,0	6	5	500	✔	74,62 €
CHC6-40/SS/B	M6	1,00	40	24	10,0	6	5	500	✔	104,92 €
CHC6-50/SS/B	M6	1,00	50	24	10,0	6	5	500	✔	104,63 €
CHC6-60/SS/B	M6	1,00	60	24	10,0	6	5	500	-	95,31 €
CHC6-80/SS/B	M6	1,00	80	24	10,0	6	5	100	✔	35,71 €
CHC6-100/SS/B	M6	1,00	100	24	10,0	6	5	100	-	46,66 €
CHC8-10/SS/B	M8	1,25	10	-	13,0	8	6	200	-	49,02 €
CHC8-16/SS/B	M8	1,25	16	-	13,0	8	6	200	✔	40,17 €
CHC8-20/SS/B	M8	1,25	20	-	13,0	8	6	200	✔	36,15 €
CHC8-25/SS/B	M8	1,25	25	-	13,0	8	6	200	✔	37,76 €
CHC8-30/SS/B	M8	1,25	30	-	13,0	8	6	200	✔	68,50 €
CHC8-35/SS/B	M8	1,25	35	-	13,0	8	6	200	-	45,04 €
CHC8-40/SS/B	M8	1,25	40	28	13,0	8	6	200	✔	61,58 €
CHC8-50/SS/B	M8	1,25	50	28	13,0	8	6	200	✔	73,86 €
CHC8-60/SS/B	M8	1,25	60	28	13,0	8	6	200	-	85,10 €
CHC8-80/SS/B	M8	1,25	80	28	13,0	8	6	200	-	105,53 €
CHC10-20/SS/B	M10	1,50	20	-	16,0	10	8	100	-	30,89 €
CHC10-25/SS/B	M10	1,50	25	-	16,0	10	8	100	✔	36,38 €
CHC10-30/SS/B	M10	1,50	30	-	16,0	10	8	100	✔	37,21 €
CHC10-40/SS/B	M10	1,50	40	-	16,0	10	8	100	-	44,71 €
CHC10-50/SS/B	M10	1,50	50	32	16,0	10	8	100	-	49,30 €

*Depending on availability - Dimensions in mm

Countersunk screw DIN 7991

Stock Sta DIN

FHCss — Stainless steel A2

- Material: Stainless steel 302/304 - A2
- Hexagonal socket
- Sold by the packet

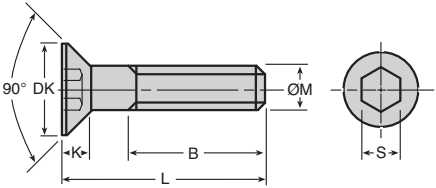


Uses

- Suitable for harsh environments

Info.

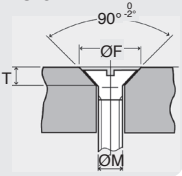
- Dimension B is for information only and can vary depending on manufacture
- Supplied by pack



Designer's Note

Countersunk heads

Thread	ØF (H13)		T
ØM	num.	max.	≈
M3	6,60	6,82	1,60
M4	9,80	10,02	2,65
M5	10,90	11,17	2,70
M6	13,20	13,47	3,30
M8	18,10	18,43	4,55
M10	21,00	21,33	5,00
M12	25,20	25,53	5,85



DISCOUNTS

N° packets	1+	2+	4+
Disc.	List	-20%	On request

Part number	Thread ØM	Pitch	Total length L	B	DK	K	S	Qty per packet	Stock*	Price per packet
FHC3-8/SS/B	M3	0,50	8	-	6	1,6	2,0	500	✔	22,22 €
FHC3-12/SS/B	M3	0,50	12	-	6	1,6	2,0	500	✔	33,94 €
FHC3-16/SS/B	M3	0,50	16	-	6	1,6	2,0	500	✔	34,22 €
FHC3-20/SS/B	M3	0,50	20	-	6	1,6	2,0	500	✔	26,45 €

*Depending on availability - Dimensions in mm

DISCOUNTS

N° packets	1+	2+	4+
Disc.	List	-20%	On request

Part number	Thread ØM	Pitch	Total length L	B	DK	K	S	Qty per packet	Stock*	Price per packet
FHC4-10/SS/B	M4	0,70	10	-	8	2,3	2,5	500	✔	23,71 €
FHC4-12/SS/B	M4	0,70	12	-	8	2,3	2,5	500	✔	27,21 €
FHC4-16/SS/B	M4	0,70	16	-	8	2,3	2,5	500	✔	21,48 €
FHC4-20/SS/B	M4	0,70	20	-	8	2,3	2,5	500	✔	21,48 €
FHC4-25/SS/B	M4	0,70	25	-	8	2,3	2,5	500	✔	32,70 €
FHC4-30/SS/B	M4	0,70	30	20	8	2,3	2,5	200	✔	18,79 €
FHC5-10/SS/B	M5	0,80	10	-	10	2,8	3,0	500	✔	27,37 €
FHC5-12/SS/B	M5	0,80	12	-	10	2,8	3,0	500	✔	23,32 €
FHC5-16/SS/B	M5	0,80	16	-	10	2,8	3,0	500	✔	30,86 €
FHC5-20/SS/B	M5	0,80	20	-	10	2,8	3,0	500	✔	36,55 €
FHC5-25/SS/B	M5	0,80	25	-	10	2,8	3,0	500	✔	38,20 €
FHC5-30/SS/B	M5	0,80	30	-	10	2,8	3,0	200	✔	18,80 €
FHC5-35/SS/B	M5	0,80	35	22	10	2,8	3,0	200	-	24,09 €
FHC6-10/SS/B	M6	1,00	10	-	12	3,3	4,0	500	✔	44,88 €
FHC6-12/SS/B	M6	1,00	12	-	12	3,3	4,0	500	✔	36,92 €
FHC6-16/SS/B	M6	1,00	16	-	12	3,3	4,0	500	✔	51,06 €
FHC6-20/SS/B	M6	1,00	20	-	12	3,3	4,0	200	✔	17,12 €
FHC6-25/SS/B	M6	1,00	25	-	12	3,3	4,0	200	✔	21,17 €
FHC6-30/SS/B	M6	1,00	30	-	12	3,3	4,0	200	✔	24,70 €
FHC6-35/SS/B	M6	1,00	35	-	12	3,3	4,0	200	✔	24,24 €
FHC6-40/SS/B	M6	1,00	40	-	12	3,3	4,0	200	-	32,04 €
FHC6-45/SS/B	M6	1,00	45	-	12	3,3	4,0	100	-	14,40 €
FHC6-60/SS/B	M6	1,00	60	20	12	3,3	4,0	100	-	22,34 €
FHC6-70/SS/B	M6	1,00	70	20	12	3,3	4,0	100	-	31,78 €
FHC8-16/SS/B	M8	1,25	16	-	16	4,4	5,0	200	✔	28,58 €
FHC8-20/SS/B	M8	1,25	20	-	16	4,4	5,0	200	✔	42,80 €
FHC8-25/SS/B	M8	1,25	25	-	16	4,4	5,0	100	✔	18,04 €
FHC8-30/SS/B	M8	1,25	30	-	16	4,4	5,0	100	✔	21,24 €
FHC8-40/SS/B	M8	1,25	40	-	16	4,4	5,0	100	✔	26,23 €
FHC8-50/SS/B	M8	1,25	50	-	16	4,4	5,0	100	-	36,66 €
FHC10-35/SS/B	M10	1,50	35	-	20	5,5	6,0	100	✔	38,83 €
FHC10-40/SS/B	M10	1,50	40	-	20	5,5	6,0	100	-	34,60 €
FHC10-50/SS/B	M10	1,50	50	32	20	5,5	6,0	100	-	42,35 €
FHC12-30/SS/B	M12	1,75	30	-	24	6,5	8,0	50	-	21,01 €
FHC12-40/SS/B	M12	1,75	40	36	24	6,5	8,0	50	-	26,31 €
FHC12-50/SS/B	M12	1,75	50	36	24	6,5	8,0	50	-	31,15 €
FHC12-60/SS/B	M12	1,75	60	36	24	6,5	8,0	50	-	40,71 €
FHC12-70/SS/B	M12	1,75	70	36	24	6,5	8,0	50	-	45,59 €
FHC12-80/SS/B	M12	1,75	80	36	24	6,5	8,0	50	-	52,93 €

*Depending on availability - Dimensions in mm

Socket head button screw ISO 7380 Sta ISO

BHC

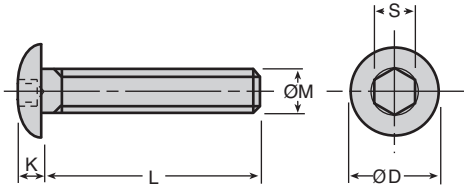
Stainless steel A2

- ***Conforms to ISO 7380***
- *Material:*
  stainless steel 302/304-A2
- *Hexagonal socket*

Info.

- *Supplied by pack*





DISCOUNTS

N° packets	1+	2+	4+
Discounts	List	-20%	On request

Part number	Thread ØM	Pitch	Length L	ØD	K	S	Qty. per packet	Stock*	Price per packet
BHC4-8/SS/B	M4	0,70	8	7,6	2,20	2,5	500	✔	27,49 €
BHC4-10/SS/B	M4	0,70	10	7,6	2,20	2,5	500	✔	33,55 €
BHC4-12/SS/B	M4	0,70	12	7,6	2,20	2,5	500	✔	32,40 €
BHC4-16/SS/B	M4	0,70	16	7,6	2,20	2,5	500	-	20,87 €
BHC5-10/SS/B	M5	0,80	10	9,5	2,75	3,0	500	✔	22,29 €
BHC5-12/SS/B	M5	0,80	12	9,5	2,75	3,0	500	✔	30,97 €
BHC5-16/SS/B	M5	0,80	16	9,5	2,75	3,0	500	-	33,81 €
BHC5-20/SS/B	M5	0,80	20	9,5	2,75	3,0	500	✔	36,98 €
BHC6-12/SS/B	M6	1,00	12	10,5	3,30	4,0	500	✔	34,34 €
BHC6-16/SS/B	M6	1,00	16	10,5	3,30	4,0	500	-	41,07 €
BHC6-20/SS/B	M6	1,00	20	10,5	3,30	4,0	500	✔	47,61 €
BHC6-25/SS/B	M6	1,00	25	10,5	3,30	4,0	500	-	67,04 €
BHC8-16/SS/B	M8	1,25	16	14,0	4,40	5,0	200	✔	37,03 €
BHC8-20/SS/B	M8	1,25	20	14,0	4,40	5,0	200	✔	35,40 €
BHC8-25/SS/B	M8	1,25	25	14,0	4,40	5,0	200	-	50,10 €
BHC8-30/SS/B	M8	1,25	30	14,0	4,40	5,0	200	-	56,38 €

**Depending on availability - Dimensions in mm*

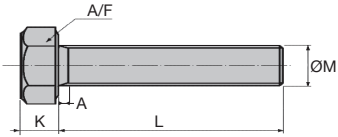
Hexagonal head screw DIN933

Brass

VTHBR

- ***Screw conforming to DIN933***
- *Material:*
  Brass





DISCOUNTS

Qty	1+	6+	11+
Disc.	Net	-10%	On request

Part Number	ØM	Pitch	L	A (max)	K	A/F Across flats	Qty per packet	Price per packet
VTH4-10/BR/B	M4	0,70	10	2,10	2,8	7	100	9,68 €
VTH4-16/BR/B	M4	0,70	16	2,10	2,8	7	100	11,31 €
VTH4-20/BR/B	M4	0,70	20	2,10	2,8	7	100	13,91 €
VTH4-25/BR/B	M4	0,70	25	2,10	2,8	7	100	15,55 €
VTH4-30/BR/B	M4	0,70	30	2,10	2,8	7	100	17,80 €
VTH5-10/BR/B	M5	0,80	10	2,40	3,5	8	100	13,33 €
VTH5-16/BR/B	M5	0,80	16	2,40	3,5	8	100	19,16 €
VTH5-20/BR/B	M5	0,80	20	2,40	3,5	8	100	20,94 €
VTH5-25/BR/B	M5	0,80	25	2,40	3,5	8	100	22,27 €
VTH5-30/BR/B	M5	0,80	30	2,40	3,5	8	100	27,08 €
VTH5-40/BR/B	M5	0,80	40	2,40	3,5	8	100	34,30 €
VTH6-10/BR/B	M6	1,00	10	3,00	4,0	10	100	22,68 €
VTH6-20/BR/B	M6	1,00	20	3,00	4,0	10	100	30,24 €
VTH6-25/BR/B	M6	1,00	25	3,00	4,0	10	100	35,52 €
VTH6-30/BR/B	M6	1,00	30	3,00	4,0	10	100	39,19 €
VTH6-40/BR/B	M6	1,00	40	3,00	4,0	10	100	46,53 €
VTH6-50/BR/B	M6	1,00	50	3,00	4,0	10	100	58,09 €
VTH8-16/BR/B	M8	1,25	16	3,75	5,3	13	100	56,01 €
VTH8-20/BR/B	M8	1,25	20	3,75	5,3	13	100	64,15 €
VTH8-25/BR/B	M8	1,25	25	3,75	5,3	13	100	71,12 €
VTH8-30/BR/B	M8	1,25	30	3,75	5,3	13	100	74,76 €
VTH8-40/BR/B	M8	1,25	40	3,75	5,3	13	100	115,66 €
VTH8-50/BR/B	M8	1,25	50	3,75	5,3	13	100	98,46 €
VTH8-60/BR/B	M8	1,25	60	3,75	5,3	13	100	122,59 €

All dimensions in mm

Hexagonal headed screw, DIN 933

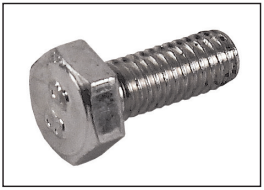
Stock

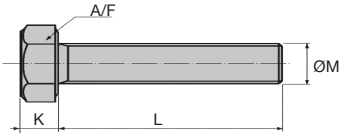
VTH — Chromed steel (Class 8.8)

- **Screw conforming to DIN 933**
- Full threaded
- Material:
  Chromed steel (Class 8.8)
- Mechanical characteristics
  conform to ISO 898-1

Info.

- Supplied by pack





DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-20%	On request

Part number	ØM	Pitch P	L	K	A/F across flats	Qty per packet	Stock*	Price per packet
VTH4-10/B	M4	0,70	10	2,92	7,0	500	-	10,07 €
VTH4-12/B	M4	0,70	12	2,92	7,0	500	-	11,03 €
VTH4-16/B	M4	0,70	16	2,92	7,0	500	-	13,07 €
VTH4-20/B	M4	0,70	20	2,92	7,0	500	✔	39,55 €
VTH4-25/B	M4	0,70	25	2,92	7,0	500	-	17,39 €
VTH4-30/B	M4	0,70	30	2,92	7,0	500	-	19,74 €
VTH4-35/B	M4	0,70	35	2,92	7,0	200	-	12,32 €
VTH4-40/B	M4	0,70	40	2,92	7,0	200	-	13,81 €
VTH5-10/B	M5	0,80	10	3,65	8,0	500	✔	18,93 €
VTH5-12/B	M5	0,80	12	3,65	8,0	500	-	11,23 €
VTH5-16/B	M5	0,80	16	3,65	8,0	500	-	13,10 €
VTH5-20/B	M5	0,80	20	3,65	8,0	500	✔	25,52 €
VTH5-25/B	M5	0,80	25	3,65	8,0	500	-	17,39 €
VTH5-30/B	M5	0,80	30	3,65	8,0	500	-	19,80 €
VTH5-35/B	M5	0,80	35	3,65	8,0	200	-	8,87 €
VTH5-40/B	M5	0,80	40	3,65	8,0	200	-	9,83 €
VTH5-45/B	M5	0,80	45	3,65	8,0	200	-	11,38 €
VTH5-50/B	M5	0,80	50	3,65	8,0	200	-	12,65 €

*Depending on availability - Dimensions in mm

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-20%	On request

Part number	ØM	Pitch P	L	K	A/F across flats	Qty per packet	Stock*	Price per packet
VTH6-10/B	M6	1,00	10	4,15	10,0	500	-	14,96 €
VTH6-16/B	M6	1,00	16	4,15	10,0	500	✔	27,35 €
VTH6-20/B	M6	1,00	20	4,15	10,0	500	✔	33,94 €
VTH6-25/B	M6	1,00	25	4,15	10,0	500	✔	35,48 €
VTH6-30/B	M6	1,00	30	4,15	10,0	500	✔	40,25 €
VTH6-40/B	M6	1,00	40	4,15	10,0	200	✔	19,24 €
VTH6-50/B	M6	1,00	50	4,15	10,0	200	✔	24,45 €
VTH6-60/B	M6	1,00	60	4,15	10,0	200	-	24,44 €
VTH8-20/B	M8	1,25	20	5,45	13,0	200	✔	25,64 €
VTH8-30/B	M8	1,25	30	5,45	13,0	200	✔	29,51 €
VTH8-40/B	M8	1,25	40	5,45	13,0	100	✔	18,99 €
VTH8-50/B	M8	1,25	50	5,45	13,0	100	✔	23,50 €
VTH8-60/B	M8	1,25	60	5,45	13,0	100	-	26,27 €
VTH8-70/B	M8	1,25	70	5,45	13,0	100	-	29,00 €
VTH8-80/B	M8	1,25	80	5,45	13,0	100	-	32,06 €
VTH10-20/B	M10	1,50	20	6,58	17,0	200	✔	33,72 €
VTH10-30/B	M10	1,50	30	6,58	17,0	200	-	29,33 €
VTH10-40/B	M10	1,50	40	6,58	17,0	100	✔	29,74 €
VTH10-50/B	M10	1,50	50	6,58	17,0	100	✔	45,53 €
VTH10-60/B	M10	1,50	60	6,58	17,0	50	-	11,85 €
VTH10-70/B	M10	1,50	70	6,58	17,0	50	✔	13,44 €
VTH10-80/B	M10	1,50	80	6,58	17,0	50	-	14,90 €
VTH10-100/B	M10	1,50	100	6,58	17,0	50	✔	31,16 €
VTH12-20/B	M12	1,75	20	7,68	19,0	100	✔	34,23 €
VTH12-35/B	M12	1,75	35	7,68	19,0	100	✔	41,01 €
VTH12-45/B	M12	1,75	45	7,68	19,0	100	-	28,20 €
VTH12-55/B	M12	1,75	55	7,68	19,0	50	-	15,93 €
VTH12-60/B	M12	1,75	60	7,68	19,0	50	-	16,70 €
VTH12-70/B	M12	1,75	70	7,68	19,0	50	-	19,80 €
VTH12-80/B	M12	1,75	80	7,68	19,0	50	-	21,92 €
VTH12-100/B	M12	1,75	100	7,68	19,0	50	-	26,25 €

*Depending on availability - Dimensions in mm

Wing screw, hand tightened DIN316

WINGBR

Brass

- ***Wing screw conforming to DIN316***
- *Material*
  Brass

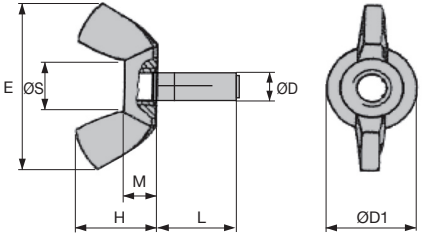
Advantages

- *Easy hand tightening*

Info.

- *Supplied by pack*





DISCOUNTS

Qty	1+	6+	11+
Disc.	Net	-10%	On request

Part number	ØD	L	E	H	M	ØD1	ØS	Qty per packet	Price per packet
WING-M4-10/BR/B	M4	10	20	10,5	4,6	8	7	100	42,03 €
WING-M4-16/BR/B	M4	16	20	10,5	4,6	8	7	100	69,05 €
WING-M4-20/BR/B	M4	20	20	10,5	4,6	8	7	100	86,54 €
WING-M5-10/BR/B	M5	10	26	13	6,5	11	9	100	87,28 €
WING-M5-16/BR/B	M5	16	26	13	6,5	11	9	100	93,05 €
WING-M5-20/BR/B	M5	20	26	13	6,5	11	9	100	104,35 €
WING-M5-25/BR/B	M5	25	26	13	6,5	11	9	100	110,37 €
WING-M5-30/BR/B	M5	30	26	13	6,5	11	9	100	122,47 €
WING-M6-16/BR/B	M6	16	33	17	8	13	11	100	100,86 €
WING-M6-20/BR/B	M6	20	33	17	8	13	11	100	120,46 €
WING-M6-25/BR/B	M6	25	33	17	8	13	11	100	128,24 €
WING-M6-30/BR/B	M6	30	33	17	8	13	11	100	136,46 €
WING-M6-40/BR/B	M6	40	33	17	8	13	11	100	160,87 €
WING-M8-10/BR/B	M8	10	39	20	10	16	12,5	50	152,70 €
WING-M8-16/BR/B	M8	16	39	20	10	16	12,5	50	172,09 €
WING-M8-20/BR/B	M8	20	39	20	10	16	12,5	50	186,67 €
WING-M8-25/BR/B	M8	25	39	20	10	16	12,5	50	200,19 €
WING-M8-30/BR/B	M8	30	39	20	10	16	12,5	50	213,10 €
WING-M8-40/BR/B	M8	40	39	20	10	16	12,5	50	255,63 €

All dimensions in mm

Wing nut, hand tightened DIN315

Brass

WINGBR

- **Wing nut conforming to DIN315**
- *Material:*
  Brass

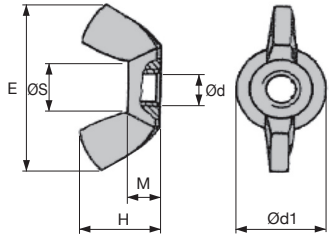
Advantages

- *Easy hand tightening*

Info.

- *Supplied by pack*





DISCOUNTS

Qty	1+	6+	11+
Disc.	Net	-10%	On request

Part N°	ØD	E	H	M	ØD1	ØS	Qty per packet	Price per packet
WING-M4/BR/B	M4	20	10,5	4,6	8	7	100	34,39 €
WING-M5/BR/B	M5	26	13	6,5	11	9	100	51,15 €
WING-M6/BR/B	M6	33	17	8	13	11	100	59,08 €
WING-M8/BR/B	M8	39	20	10	16	12,5	100	109,15 €

All dimensions in mm

Manually tightened Wing nut

Stock

WING

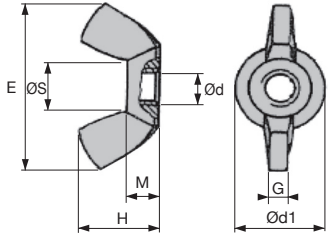
Steel (ANSI B18-17) or Stainless steel (DIN314/315)

- ***Wing nut***
- *Materials:*
  Steel wing nut (conforms to ANSI B18-17): chromed forged steel
  Stainless steel wing nut (conforms to DIN314/315): stainless steel A2



Info.

- *Supplied by pack*



DISCOUNTS

N° packets	1+	6+	20+	50+
Discounts	List	-5%	-20%	On request

Part number	Ød	Ød1	ØS	E	G	H	M	Qty per packet	Stock*	Price per packet
Steel										
WING-M3/B	M3	7,5	-	18,5	-	8,8	3,0	500	-	51,53 €
WING-M4/B	M4	7,8	-	18,5	-	8,8	3,0	500	-	55,50 €
WING-M5/B	M5	9,5	-	22,5	-	10,5	3,8	500	-	100,57 €
WING-M6/B	M6	12,4	-	27,2	-	12,7	4,7	500	✔	64,24 €
WING-M8/B	M8	13,5	-	30,0	-	14,6	5,6	200	-	33,52 €
WING-M10/B	M10	15,6	-	35,0	-	16,7	6,3	200	-	54,26 €
WING-M12/B	M12	20,5	-	47,6	-	22,3	7,5	100	-	59,45 €
Stainless steel A2										
WING-M3/SS/B	M3	6,8	4,5	15,3	1,2	7,2	2,4	100	✔	15,17 €
WING-M4/SS/B	M4	8,0	5,2	17,6	1,6	8,6	2,9	100	✔	16,55 €
WING-M5/SS/B	M5	10,3	6,7	22,5	2,1	11,0	4,1	100	✔	15,76 €
WING-M6/SS/B	M6	12,7	8,4	27,8	2,5	13,6	5,1	100	✔	30,24 €
WING-M8/SS/B	M8	13,8	9,1	30,3	2,8	14,8	5,6	100	✔	109,82 €
WING-M10/SS/B	M10	16,5	11	36,2	3,3	17,7	6,8	100	✔	56,02 €
WING-M12/SS/B	M12	22,5	15	49,4	4,5	24,1	9,0	50	-	59,73 €

**Depending on availability - Dimensions in mm*

Hexagonal nut DIN 934

Steel Class 6|8| or stainless steel Class A2

SHNA SHN

- **Conforms to DIN 934**
- Bore chamfered at 120° ±10°
- Exterior chamfered at 30°
- Standard pitch
- Materials:
  Chromed steel Class 6|8|
  Stainless steel 303/304 Class A2
  Max working temperature 430°C
- Sold by the pack



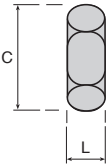
Steel or stainless steel

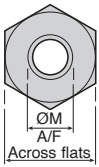
Options

- Also available in A4/316 stainless steel
- Fine threaded (SHN-F or N-F)

Accessories

- Box set of hexagonal nuts DIN934
  BOX-SHNA
  (tome 1 p.654)





DISCOUNTS

N° packets	1+	6+	11+
Discounts	List	-10%	On request

Part number	Thread ØM	Pitch	A/F Across flats	C	L	Qty per packet	Stock*	Price per packet
Steel class 6|8|								
SHNA-3/B	M3	0,50	5,5	6,01	2,4	500	✔	8,71 €
SHNA-4/B	M4	0,70	7,0	7,66	3,2	500	✔	6,59 €
SHNA-5/B	M5	0,80	8,0	8,79	4,0	500	✔	5,98 €
SHNA-6/B	M6	1,00	10,0	11,05	5,0	500	✔	11,45 €
SHNA-8/B	M8	1,25	13,0	14,38	6,5	200	✔	9,16 €
SHNA-10/B	M10	1,50	17,0	18,90	8,0	100	✔	7,64 €
SHNA-12/B	M12	1,75	19,0	21,10	10,0	50	✔	5,60 €
SHNA-16/B	M16	2,00	24,0	26,75	13,0	25	✔	4,97 €
SHNA-20/B	M20	2,50	30,0	32,95	16,0	25	✔	9,48 €
Stainless steel (class A2)								
SHN-1.6/B	M1,6	0,35	3,2	3,48	1,0	1000	-	117,73 €
SHN-2/B	M2	0,40	4,0	4,32	1,6	1000	✔	18,37 €
SHN-2.5/B	M2,5	0,45	5,0	5,45	2,0	1000	✔	20,40 €
SHN-3/B	M3	0,50	5,5	6,01	2,4	1000	✔	14,88 €
SHN-4/B	M4	0,70	7,0	7,66	3,2	1000	✔	18,77 €
SHN-5/B	M5	0,80	8,0	8,79	4,0	1000	✔	26,88 €
SHN-6/B	M6	1,00	10,0	11,05	5,0	100	✔	5,98 €
SHN-8/B	M8	1,25	13,0	14,38	6,5	100	✔	11,52 €
SHN-10/B	M10	1,50	17,0	18,90	8,0	100	✔	17,50 €
SHN-12/B	M12	1,75	19,0	21,10	10,0	100	✔	28,51 €
SHN-14/B	M14	2,00	22,0	24,49	11,0	100	✔	34,42 €
SHN-16/B	M16	2,00	24,0	26,75	13,0	50	✔	42,01 €
SHN-20/B	M20	2,50	30,0	32,95	16,0	50	-	51,92 €
SHN-24/B	M24	3,00	36,0	39,55	19,0	25	-	61,68 €

*Depending to availability - Dimensions in mm

Hexagonal nut DIN934

SHNBR

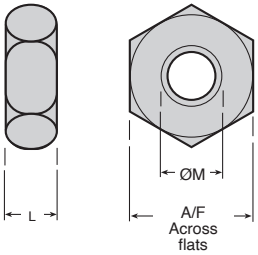
Brass

- **Nut conforming to DIN934**
- *Material:*
  Brass

Info.

- *Supplied by pack*





DISCOUNTS

Qty	1+	6+	11+
Disc.	Net	-10%	On request

Part number	ØM	Pitch	L	A/F Across flats	Qty. per packet	Price per packet
SHN-4/BR/B	M4	0,70	3,2	7	100	6,55 €
SHN-5/BR/B	M5	0,80	4	8	100	6,02 €
SHN-6/BR/B	M6	1,00	5	10	100	12,12 €
SHN-8/BR/B	M8	1,25	6,5	13	100	24,89 €

All dimensions in mm

Self-locking nut DIN 985

Steel or stainless steel (A2) with nylon insert

NINA
NIN

- **Conforms to DIN 934**
- Anti-vibration, self locking
- Nylon insert
- Material:
  Chromed steel (Class 6.8)
  Stainless steel (Class A2)

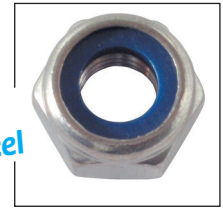
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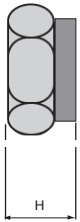
- Supplied by pack

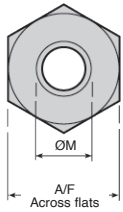
Accessories

- Box sets of self-locking nuts DIN985
  BOX-NINA
  (tome 1 p.655)

Steel or stainless steel







DISCOUNTS

N° packets	1+	6+	11+
Discounts	List	-10%	On request

Part number	Thread ØM	Pitch	A/F Across flats	H	Qty. per pack	Stock*	Price per packet
Steel							
NINA-5/B	M5	0,80	8,0	5,0	500	✔	9,83 €
NINA-6/B	M6	1,00	10,0	6,0	500	✔	13,81 €
NINA-8/B	M8	1,25	13,0	8,0	200	✔	11,05 €
NINA-10/B	M10	1,50	17,0	10,0	200	✔	17,87 €
NINA-12/B	M12	1,75	19,0	12,0	200	✔	36,04 €
NINA-16/B	M16	2,00	24,0	16,0	100	-	28,29 €
NINA-20/B	M20	2,50	30,0	20,0	50	-	32,55 €
Stainless steel							
NIN-3/B	M3	0,50	5,5	4,0	1000	✔	36,78 €
NIN-4/B	M4	0,70	7,0	5,0	1000	✔	35,03 €
NIN-5/B	M5	0,80	8,0	5,0	1000	✔	43,32 €
NIN-6/B	M6	1,00	10,0	6,0	500	✔	35,00 €
NIN-8/B	M8	1,25	13,0	8,0	500	✔	61,98 €
NIN-10/B	M10	1,50	17,0	10,0	200	✔	33,14 €
NIN-12/B	M12	1,75	19,0	12,0	200	✔	39,12 €
NIN-16/B	M16	2,00	24,0	16,0	100	-	44,20 €
NIN-20/B	M20	2,50	30,0	20,0	50	-	55,25 €

*Depending to availability - Dimensions in mm

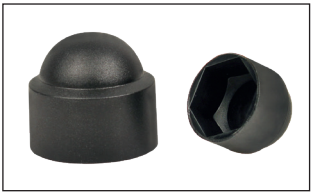
Hexagonal cap

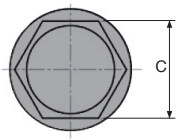
BHEX — For hexagonal heads

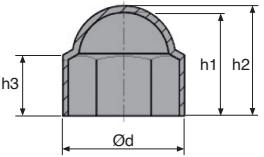
- ***Cap for hexagonal headed screws or nuts***
- *Stylish, avoids risks of cuts*
- *Material:*
  Black technopolymer

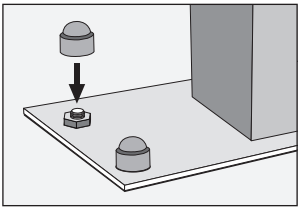
Info.

- *Supplied by pack*









Typical application

DISCOUNTS

Qty	1+	5+	10+	25+
Disc.	List	-10%	-20%	On request

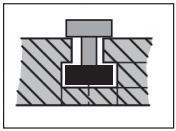
Part number	For thread	Size of hexagon	C	Ød	h1	h2	h3	Qty per packet	Stock*	Price per packet
BHEX-4/B	M4	7	6,9	9	7,5	8,3	3,5	100	-	21,09 €
BHEX-5/B	M5	8	7,9	10,9	8,5	9,5	5	100	✔	21,09 €
BHEX-6/B	M6	10	9,8	12,9	12,0	13,0	6	100	✔	21,09 €
BHEX-8/B	M8	13	12,8	16,8	14,0	15,0	9	100	✔	29,53 €
BHEX-10/B	M10	17	16,7	21,3	18,5	19,5	9	50	✔	16,87 €
BHEX-12/B	M12	19	18,7	23,6	20,0	21,5	11	50	✔	21,09 €
BHEX-14/B	M14	22	21,7	27,5	22,5	24,0	12	50	-	23,19 €
BHEX-16/B	M16	24	23,7	29,8	25,5	27,0	14	10	-	8,00 €
BHEX-20/B	M20	30	29,8	37,7	31,0	33,2	17	10	-	20,22 €
BHEX-24	M24	36	35,8	44,4	38,0	39,2	20	1	-	2,59 €
BHEX-30	M30	46	45,8	55,9	49,0	51,5	25	1	-	3,78 €

**Depending on availability - Dimensions in mm*

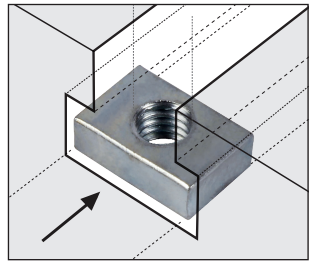
- ***Threaded plate for securing a component using a screw***
- *Material:*
  Steel sheet

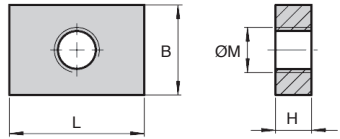
Info.

- *Supplied by pack*



Typical application in a T slot





DISCOUNTS

Qty	1+	5+	10+	20+
Disc.	List	-5%	-10%	On request

Part number	L	B	H	ØM	Qty per pack	Stock*	Price per packet
ERT15-10-4-M5/L	15	10	4	M5	100	✔	28,35 €
ERT15-10-4-M6/L	15	10	4	M6	100	✔	28,35 €
ERT15-10-5-M6/L	15	10	5	M6	100	✔	28,35 €
ERT19-16-4-M4/L	19	16	4	M4	100	✔	31,49 €
ERT19-16-4-M5/L	19	16	4	M5	100	-	31,49 €
ERT19-16-4-M6/L	19	16	4	M6	100	✔	31,49 €
ERT19-16-4-M8/L	19	16	4	M8	100	-	31,49 €
ERT19-19-4-M5/L	19	19	4	M5	100	-	31,49 €
ERT19-19-4-M6/L	19	19	4	M6	100	-	31,49 €
ERT19-19-4-M8/L	19	19	4	M8	100	-	31,49 €
ERT20-13-5-M6/L	20	13	5	M6	100	✔	31,49 €
ERT20-13-5-M8/L	20	13	5	M8	100	✔	31,49 €
ERT20-20-4-M4/L	20	20	4	M4	100	-	34,63 €
ERT20-20-6-M5/L	20	20	6	M5	100	-	34,63 €
ERT20-20-6-M6/L	20	20	6	M6	100	✔	34,63 €
ERT20-20-6-M8/L	20	20	6	M8	100	✔	34,63 €
ERT25-12-5-M6/L	25	12	5	M6	100	✔	31,49 €

**Depending on availability - Dimensions in mm*

Plain washer DIN 125

Sta DIN Stock Ste

SHW WM

Steel or stainless steel A2

- **Conforms to DIN125**
- Material:
  Zinc plated steel
  Stainless steel A2 303/304
  (working temperature: up to +430°C)
- Sold by the packet

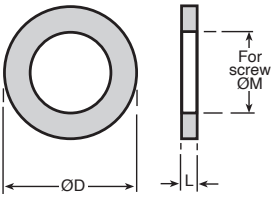


Option

- Also available in stainless steel 316 (A4)

Accessory

- Box set of standard washers DIN125 **(tome 1 p.656)**



DISCOUNTS

N° packs	1+	6+	11+
Discounts	List	-10%	On request

Part number	For screw ØM	ØD	L	Qty per packet	Stock*	Price per packet
Steel						
WM-2/B	M2	5	0,3	200	-	3,10 €
WM-2.5/B	M2,5	6	0,5	200	-	2,33 €
WM-3/B	M3	7	0,5	200	-	2,48 €
WM-4/B	M4	9	0,8	200	✔	2,82 €
WM-5/B	M5	10	1,0	100	-	2,33 €
WM-6/B	M6	12	1,6	100	-	2,75 €
WM-8/B	M8	16	1,6	100	✔	3,30 €
WM-10/B	M10	20	2,0	100	✔	4,65 €
WM-12/B	M12	24	2,5	100	-	7,41 €
WM-14/B	M14	28	2,5	100	-	9,06 €
WM-16/B	M16	30	3,0	100	-	13,97 €
WM-20/B	M20	37	3,0	100	-	15,79 €
Stainless steel A2						
SHW-2/B	M2	5	0,3	2000	✔	10,37 €
SHW-2.5/B	M2,5	6	0,5	2000	✔	17,35 €
SHW-3/B	M3	7	0,5	1000	✔	2,73 €
SHW-4/B	M4	9	0,8	1000	✔	5,51 €
SHW-5/B	M5	10	1,0	1000	✔	7,59 €
SHW-6/B	M6	12	1,6	1000	✔	18,00 €
SHW-8/B	M8	16	1,6	500	✔	12,24 €
SHW-10/B	M10	20	2,0	500	✔	30,15 €
SHW-12/B	M12	24	2,5	200	✔	25,64 €
SHW-14/B	M14	28	2,5	200	✔	30,91 €
SHW-16/B	M16	30	3,0	200	✔	31,60 €
SHW-20/B	M20	37	3,0	200	✔	43,28 €

*Depending on availability - Dimensions in mm

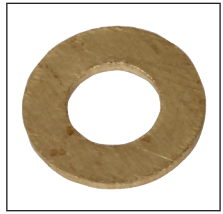
Brass

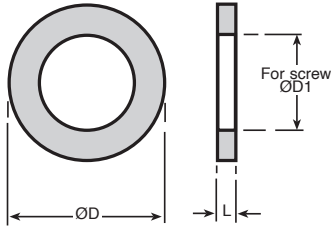
SHWBR

- **Washer conforming to DIN125-1**
- Not chamfered
- Material:
  Brass

Info.

- Supplied by pack





DISCOUNTS

Qty	1+	6+	11+
Disc.	Net	-10%	On request

Part N°	For screw ØM	ØD1	ØD	L	Qty per packet	Price per packet
SHW-4/BR/B	M4	4,3	9	0,8	100	3,05 €
SHW-5/BR/B	M5	5,3	10	1	100	3,50 €
SHW-6/BR/B	M6	6,4	12	1,6	100	8,04 €
SHW-8/BR/B	M8	8,4	16	1,6	100	11,43 €

All dimensions in mm

Self aligning washers DIN6319

SteDINstock

RCC RCX

For M6 to M12 screws

- ***Use a pair of spherical and one dished washer***
- *Material: Hardened steel, manganese, phosphatation*
- *Other sizes on request*



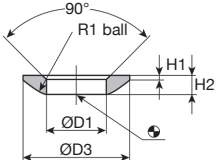
RCX



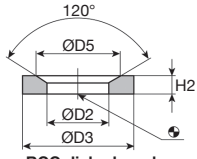
RCC

Advantages

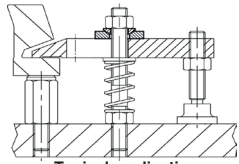
- *Spreads pressure uniformly*
- *Ensures screw head seats correctly*



RCX spherical washer



RCC dished washer



Typical application

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-5%	-10%	On request

Part number	For screw	ØD1 H13	ØD3	ØD5	H1	H2	R1	Max statistic load (kN)	Stock*	Price each 1 to 5
Spherical washer										
RCX-6	M6	6,4	12	-	0,7	2,3	9	9	✔	1,20 €
RCX-8	M8	8,4	17	-	0,6	3,2	12	17	✔	1,24 €
RCX-10	M10	10,5	21	-	0,8	4	15	26	✔	1,70 €
RCX-12	M12	13	24	-	1,1	4,6	17	38	✔	2,18 €
RCX-14	M14	15	28	-	1,4	5	22	53	-	3,09 €
RCX-16	M16	17	30	-	1,3	5,3	22	73	-	3,09 €
RCX-20	M20	21	36	-	2	6,3	27	117	-	4,68 €
RCX-24	M24	25	44	-	2,4	8,2	32	168	-	7,00 €
Dished washer										
RCC-6	M6	7,1	12	11	-	2,8	-	9	✔	1,29 €
RCC-8	M8	9,6	17	14,5	-	3,5	-	17	✔	1,43 €
RCC-10	M10	12	21	18,5	-	4,2	-	26	✔	1,79 €
RCC-12	M12	14,2	24	20	-	5	-	38	✔	2,27 €
RCC-14	M14	16,5	28	24,8	-	5,6	-	53	-	3,80 €
RCC-16	M16	19	30	26	-	6,2	-	73	-	3,80 €
RCC-20	M20	23,2	36	31	-	7,5	-	117	-	5,14 €
RCC-24	M24	28	44	37	-	9,5	-	168	-	7,82 €

**Depending on availability - Dimensions in mm*

Sta DIN stock Self aligning washers DIN6319

For M6 to M12 screws

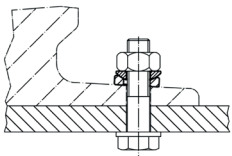
RCCss
RCXss

- ***Use a pair of one spherical and one dished washer***
- *Material: stainless steel 1.4305*
- *Other sizes on request*

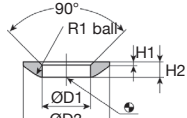


Advantages

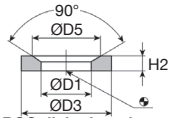
- *Spreads pressure uniformly*
- *Ensures screw head seats correctly*



Typical application



RCX spherical washer



RCC dished washer



RCX



RCC

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-5%	-10%	On request

Part number	For screw	ØD1 H13	ØD3	ØD5	H1	H2	R1	Max statistic load (kN)	Stock*	Price each 1 to 5
Spherical washer										
RCX-6/SS	M6	6,4	12	-	0,7	2,3	9	6	✔	2,38 €
RCX-8/SS	M8	8,4	17	-	0,6	3,2	12	12	✔	3,19 €
RCX-10/SS	M10	10,5	21	-	0,8	4,0	15	16	✔	4,37 €
RCX-12/SS	M12	13,0	24	-	1,1	4,6	17	24	✔	5,22 €
RCX-16/SS	M16	17,0	30	-	1,3	5,3	22	45	-	8,03 €
RCX-20/SS	M20	21,0	36	-	2,0	6,3	27	71	-	11,04 €
RCX-24/SS	M24	25,0	44	-	2,4	8,2	32	105	-	17,54 €
Dished washer										
RCC-6/SS	M6	7,1	12	11,0	-	2,8	-	6	✔	2,40 €
RCC-8/SS	M8	9,6	17	14,5	-	3,5	-	12	✔	3,43 €
RCC-10/SS	M10	12,0	21	18,5	-	4,2	-	16	✔	4,63 €
RCC-12/SS	M12	14,2	24	20,0	-	5,0	-	24	✔	5,41 €
RCC-16/SS	M16	19,0	30	26,0	-	6,2	-	45	-	8,35 €
RCC-20/SS	M20	23,2	36	31,0	-	7,5	-	71	-	11,39 €
RCC-24/SS	M24	28,0	44	37,0	-	9,5	-	105	-	22,24 €

**Depending on availability - Dimensions in mm*

Tightening washer

WTM

Hardened steel

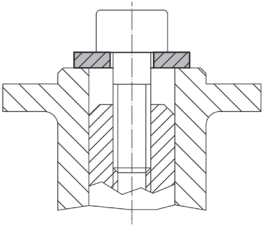
- ***Heavy duty clamping washer***
- *Conforms to DIN 6340*
- *Materials :*
  Steel AlZnMgCu0.5F47
  resistance hardened 1200-1400/mm²

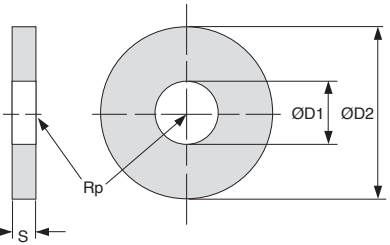
Info.

- ***Not sold individually, please contact us for details***



Tight locking





DISCOUNTS

Qty	1+	20+	50+
Disc.	List	-10%	On request

Part number	ØD1	ØD2	S	For screw	Weight (g)	Stock*	Price each 1 to 19
WTM-6	6,4	17	3	M6	3,8	✔	0,79 €
WTM-8	8,4	23	4	M8	9,8	✔	0,79 €
WTM-10	10,5	28	4	M10	14	✔	0,98 €
WTM-12	13,0	35	5	M12	28	✔	1,29 €
WTM-16	17,0	45	6	M16	55	✔	1,84 €
WTM-20	21,0	50	6	M20	71	✔	2,91 €
WTM-24	25,0	60	6	M24	122	-	4,55 €

**Subject to availability - Dimensions in mm*

Find our full range of

HINGES

on HPCEUROPE.COM



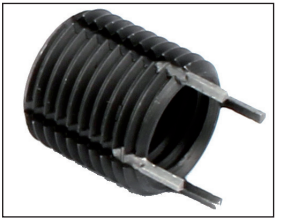
- Snap-on
- Sprung
- Removeable
- Friction



Steel thread repair inserts

FR — For repairing damaged threads

Thread inserts are a convenient way of repairing siezed, damaged or hanging threads. Can also be used to renovate threads in high quality materials.
Thread inserts can be used in various materials such as light alloys or cast iron.

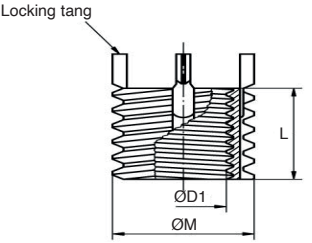


Advantages

- *Quick and easy to install*
- *Tangs are used during installation and then serve as an anti-rotation mechanism.*
- ***Apart from the insertion tool, no other special tools are required.***

Assembly

- ***Some tapping required***
- *Refer to technical pages for assembly/disassembly instructions*



DISCOUNTS

Qty	1+	10+	20+	30+	50+
Disc.	List	-5%	-10%	-15%	On request

Part number	Thread ØD1	Thread ØM	Lenght L	Assembly drill size Ø	Assembly counterbore +0,25	Assembly thread	Min thread depth	Removal drill size Ø	Removal thread depth	Stock*	Price each 1 to 9
FR-M5	M5	M8	8	6,9	8,3	M8	9,5	5,5	4,0	✔	6,40 €
FR-M6	M6	M10x1,25	10	8,8	10,3	M10x1,25	11,5	7,5	4,8	✔	6,92 €
FR-M8	M8	M12x1,25	12	10,8	12,3	M12x1,25	13,5	9,5	4,8	✔	7,68 €
FR-M8x100	M8x1	M12x1,25	12	10,8	12,3	M12x1,25	13,5	9,5	4,8	-	7,68 €
FR-M10	M10	M14x1,5	14	12,8	14,3	M14x1,5	15,5	11,5	4,8	✔	9,52 €
FR-M10x125	M10x1,25	M14x1,5	14	12,8	14,3	M14x1,5	15,5	11,5	4,8	-	9,52 €
FR-M12	M12	M16x1,5	16	14,8	16,3	M16x1,5	17,5	13,5	4,8	✔	12,28 €
FR-M12x125	M12x1,25	M16x1,5	16	14,8	16,3	M16x1,5	17,5	13,5	4,8	-	12,28 €

**Depending on availability - Dimensions in mm*

Sta Stainless steel thread repair inserts

For repairing damaged threads

FRss

Thread inserts are a convenient way of repairing siezed, damaged or hanging threads.
Can also be used to renovate threads in high quality materials.
Thread inserts can be used in various materials such as light alloys or cast iron.

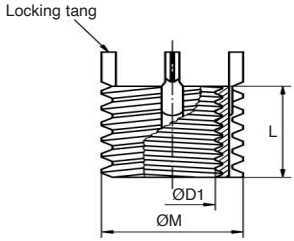


Advantages

- *Quick and easy to install*
- *Tangs are used during installation and then serve as an anti-rotation mechanism.*
- ***Apart from the insertion tool, no other special tools are required.***

Assembly

- ***Some tapping required***
- *Refer to technical pages for assembly/disassembly instructions*



DISCOUNTS

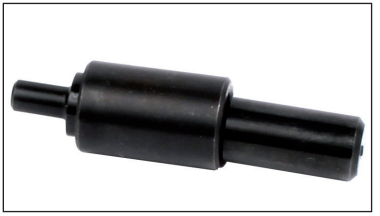
Qty	1+	10+	20+	30+	50+
Disc.	List	-5%	-10%	-15%	On request

Part number	Thread ØD1	Thread ØM	Lenght L	Assembly drill size Ø	Assembly counterbore +0,25	Assembly thread	Min thread depth	Removal drill size Ø	Removal thread depth	Stock*	Price each 1 to 9
FR-M5/SS	M5	M8	8	6,9	8,3	M8	9,5	5,5	4,0	✔	13,03 €
FR-M6/SS	M6	M10x1,25	10	8,8	10,3	M10x1,25	11,5	7,5	4,8	✔	12,68 €
FR-M8/SS	M8	M12x1,25	12	10,8	12,3	M12x1,25	13,5	9,5	4,8	✔	13,40 €
FR-M8x100/SS	M8x1	M12x1,25	12	10,8	12,3	M12x1,25	13,5	9,5	4,8	-	13,40 €
FR-M10/SS	M10	M14x1,5	14	12,8	14,3	M14x1,5	15,5	11,5	4,8	✔	15,34 €
FR-M10x125SS	M10x1,25	M14x1,5	14	12,8	14,3	M14x1,5	15,5	11,5	4,8	-	15,34 €
FR-M12/SS	M12	M16x1,5	16	14,8	16,3	M16x1,5	17,5	13,5	4,8	✔	19,53 €
FR-M12x125SS	M12x1,25	M16x1,5	16	14,8	16,3	M16x1,5	17,5	13,5	4,8	-	19,53 €

**Depending on availability - Dimensions in mm*

FRTOOL

Assembly tool



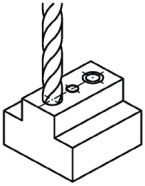
DISCOUNTS

Qty	1+	10+	20+	30+	50+
Disc.	List	-5%	-10%	-15%	On request

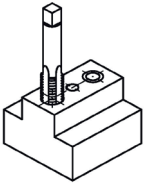
Part number	Corresponding diameter D1	Stock*	Price each 1 to 9
FR-M5/TOOL	M5	-	38,31 €
FR-M6/TOOL	M6	✔	39,57 €
FR-M8/TOOL	M8, M8x1	✔	41,28 €
FR-M10/TOOL	M10, M10x1,25	✔	44,21 €
FR-M12/TOOL	M12, M12x1,25	-	47,80 €

**Depending on availability - Dimensions in mm*

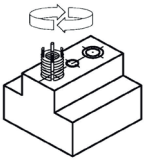
Assembly



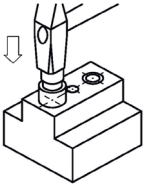
1.*
Drill the pilot hole or rebore the old thread with a starting taper (82°-100°)



2.*
Tap the required thread using a standard tap.



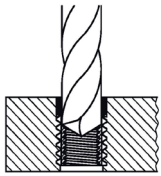
3.
Screw in the thread inserts. These should finish below the top surface of the material (0.3 to 0.7mm).



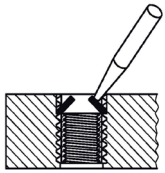
4.
Knock in the tongs using the supplied tool, tapping gently with a hammer.

Steps 1+2. Refer to the parts table for the dimensions.

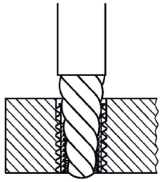
Disassembly



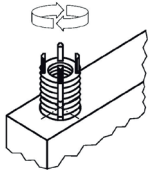
1.*
Rebore the remaining material between the keys and threads to the depth indicated



2.
Bend the tongs towards the centre until they break



3.
Remove the thread inserts using the extraction tool



4.
Mount the new thread inserts in the original threads

*Steps 1. Refer to the parts table for the dimensions

Powercoil thread repair inserts

PWC — For repairing threads

- ***Thread insert repair kits (with or without insertion tools)***
- *Single size of insert per kit*
- *The thread length is 1.5 x the O.D.*
- *Material: stainless steel 304*

Tap

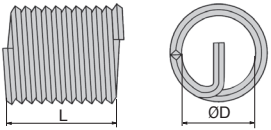
- *The taps supplied are designed to be used with thread inserts (STI) and are not compatible with standard metric threads.*

Info

- *Kits with tools supplied include 1 drill, 1 tap, 1 insertion tool and 1 tang break tool.*







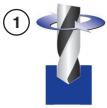
DISCOUNTS

Qty	1+	5+	10+	15+
Disc.	List	-5%	-10%	On request

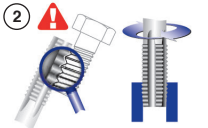
Part number	ØD	Pitch	L	ØDrilling	Qty per box	Price each 1 to 4
Kit inc installation tools						
PWC-M3/KIT	M3	0,50	4,5	3,2	20	121,63 €
PWC-M4/KIT	M4	0,70	6,0	4,2	20	121,63 €
PWC-M5/KIT	M5	0,80	7,5	5,2	20	121,63 €
PWC-M6/KIT	M6	1,00	9,0	6,3	20	128,19 €
PWC-M8/KIT	M8	1,25	12,0	8,3	20	147,92 €
PWC-M10/KIT	M10	1,50	15,0	10,4	15	152,00 €
PWC-M12/KIT	M12	1,75	18,0	12,4	10	183,68 €
Wallets without installation tools						
PWC-M3/B	M3	0,50	4,5	3,2	10	8,44 €
PWC-M4/B	M4	0,70	6,0	4,2	10	8,44 €
PWC-M5/B	M5	0,80	7,5	5,2	10	8,44 €
PWC-M6/B	M6	1,00	9,0	6,3	10	8,44 €
PWC-M8/B	M8	1,25	12,0	8,3	10	9,64 €
PWC-M10/B	M10	1,50	15,0	10,4	10	11,34 €
PWC-M12/B	M12	1,75	18,0	12,4	10	16,15 €

Dimensions in mm

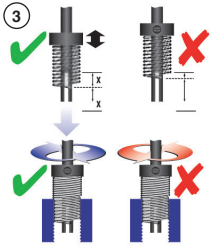
Powercell thread inserts allow threads to be reinforced or repaired and result in greater strength. In new applications they can be used to reinforce lighter materials. For repairs, they are used to restore damaged threads to an as-new condition.



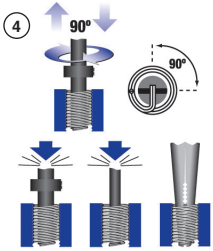
1 Drill to clear the damaged thread with a standard twist drill. Thread Repair Kits up to M12 include the correct size drill. The required drill size is shown on the front of the packaging.



2 Use the specified tap to cut the holding thread into the prepared hole. When tapping a hole, it is recommended to use a suitable cutting lubricant.
Note: Thread inserts require the use of STI (Screw thread insert) taps which are slightly oversized to provide the correct hole diameter. Always check that the thread and pitch of the tap are the same as the bolt that will be used in the finished hole.



3 Loosen the grub screw and slide the collar along the insert tool shaft so that the tang on the insert is positioned half way up the insert tool slot.
Note: Do not position the tang at the very top or bottom of the insert tool slot.
Use the installation tool to wind the insert into the threaded hole using a light downward pressure until it is half a turn below the surface.
Note: Do not rotate in the opposite direction to the thread direction as the tang may break.



4 Lift installation tool, rotate 90° and tap down sharply to break off the thread insert tang. Use the tang break off tool to perform this function where supplied.

Note: For larger inserts use long nosed pliers to remove the tang.

The damaged thread has now successfully been repaired and will normally be stronger than the original.

Self tapping inserts- coarse thread

Stock

INS100

For soft materials

- ***Self tapping insert with coarse external thread***
- *No collar*
- *Deforms on installation, no special tools required*
- *Hexagonal drive socket simplifies installation*
- *Chromed steel*

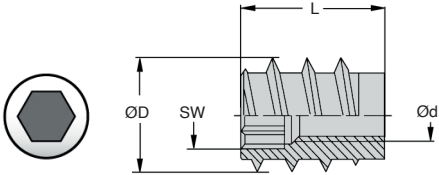


Applications

- *For use in rubber, soft plastic or soft wood*

Info.

- ***Sold by the packet***



DISCOUNTS

Qty	1+	10+	20+	30+	40+
Disc.	List	-5%	-10%	-15%	On request

Part number	ØD	L	Ød	SW	Recommended Ø drill min	Recommended Ø drill max	Qty per packet	Weight (g)	Stock*	Price each by packet
INS100-M4/B	8,0	8	M4	4	6,6	6,9	20	1,4	✔	16,04 €
INS100-M5/B	10,0	10	M5	5	8,4	8,9	20	2,5	✔	20,39 €
INS100-M6/B	12,0	12	M6	6	10,0	10,4	20	4,8	✔	26,27 €
INS100-M8/B	14,0	15	M8	8	12,0	12,4	20	7,3	✔	33,48 €
INS100-M10/B	18,5	20	M10	10	16,2	16,7	15	19,2	✔	76,08 €
INS100-M12/B	22,0	30	M12	12	19,5	20,0	10	38,0	-	92,36 €

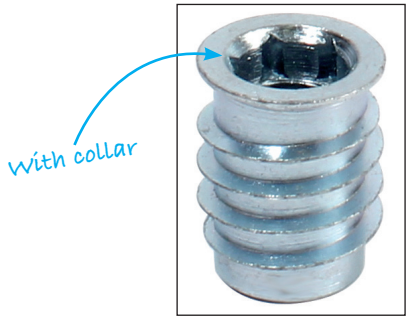
**Depending on availability - Dimensions in mm*

Stock Self tapping insert with collar-coarse thread

For soft materials

INS150

- ***Self tapping insert with coarse external thread***
- *With collar*
- *Deforms on installation, no special tools required*
- *Hexagonal drive socket simplifies installation*
- *Chromed steel*



Applications

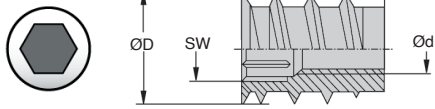
- *For use in rubber, soft plastic or soft wood*

Advantage

- *Collar prevents insert being inserted too far*

Info.

- ***Sold by the packet***



DISCOUNTS

Qty	1+	10+	20+	30+	40+
Disc.	List	-5%	-10%	-15%	On request

Part number	ØD	L	Ød	SW	Recommended Ø drill min	Recommended Ø drill max	Qty per packet	Weight (g)	Stock*	Price each by packet
INS150-M4/B	8,0	8	M4	4	6,6	6,9	20	1,4	✔	32,68 €
INS150-M5/B	10,0	12	M5	5	8,4	8,9	20	2,8	✔	40,67 €
INS150-M6/B	12,0	15	M6	6	10,0	10,4	20	6,0	✔	47,88 €
INS150-M8/B	14,0	18	M8	8	12,0	12,4	20	8,7	✔	79,84 €
INS150-M10/B	18,5	25	M10	10	16,2	16,7	15	24,2	-	93,27 €
INS150-M12/B	22,0	25	M12	12	19,5	20,0	10	34,5	-	112,49 €

**Depending on availability - Dimensions in mm*

Self tapping brass insert

INSBR

For plastics

- ***Self tapping insert with fine external thread***
- *Material: brass*



Applications

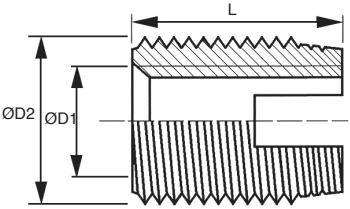
- *For use with thermosetting plastics and hardwoods*

Mounting

- *Mount the insert in a plain hole with the aid of the Insertion tool INS-TOOL, a tap, a drill fitted with a threaded head or an automatic threading machine.*
- *The insert should be installed in such a way that the thread/slot cuts its own thread*
- *For soft material the initial hole should be drilled at the minimum recommended size, for a hard material, at the maximum recommended size*

Info.

- *Sold by the packet*



Excellent resistance to being extracted

DISCOUNTS

Qty	1+	10+	20+	30+	40+
Disc.	List	-5%	-10%	-15%	On request

Part number	Internal thread ØD1	External thread ØD2	Length L	Recommended drill size mini	Recommended drill size maxi	Qty per packet	Stock*	Price per packet
INS300-M3/BR/B	M3	M5 X 0,5	6	4,6	4,8	20	✔	11,82 €
INS300-M4/BR/B	M4	M6,5 X 0,75	8	5,8	6,2	20	✔	16,40 €
INS300-M5/BR/B	M5	M8 X 1	10	7,1	7,6	20	✔	18,53 €
INS300-M6/BR/B	M6	M10 X 1,5	14	8,6	9,4	20	✔	23,86 €
INS300-M8/BR/B	M8	M12 X 1,5	15	10,6	11,4	20	✔	34,29 €
INS300-M10/BR/B	M10	M14 X 1,5	18	12,6	13,4	15	✔	42,67 €
INS300-M12/BR/B	M12	M16 X 1,5	22	14,6	15,4	10	✔	45,21 €

**Depending on availability - Dimensions in mm*

Self tapping steel insert

For hard materials

INS

- ***Self tapping insert with fine external thread***
- *Material: hardened steel, zinc bichromate finish*



Applications

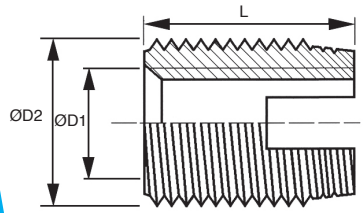
- *For use with aluminium or other non ferrous metals, thermoplastics and hardwoods*

Mounting

- *Mount the insert in a plain hole with the aid of the Insertion tool INS-TOOL, a tap, a drill fitted with a threaded head or an automatic threading machine.*
- *The insert should be installed in such a way that the thread/slot cuts its own thread*
- *For soft material the initial hole should be drilled at the minimum recommended size, for a hard material, at the maximum recommended size*

Info.

- *Sold by the packet*



Excellent resistance to being extracted

DISCOUNTS

Qty	1+	10+	20+	30+	40+
Disc.	List	-5%	-10%	-15%	On request

Part number	Internal thread ØD1	External thread ØD2	Length L	Recommended drill size mini	Recommended drill size maxi	Qty per packet	Stock*	Price per packet
INS300-M3/B	M3	M5 X 0,5	6	4,6	4,8	20	✔	11,46 €
INS300-M4/B	M4	M6,5 X 0,75	8	5,8	6,2	20	✔	15,62 €
INS300-M5/B	M5	M8 X 1	10	7,1	7,6	20	✔	17,23 €
INS300-M6/B	M6	M10 X 1,5	14	8,6	9,4	20	✔	20,50 €
INS300-M8/B	M8	M12 X 1,5	15	10,6	11,4	20	✔	25,27 €
INS300-M10/B	M10	M14 X 1,5	18	12,6	13,4	15	✔	33,87 €
INS300-M12/B	M12	M16 X 1,5	22	14,6	15,4	10	✔	40,72 €

**Depending on availability - Dimensions in mm*

Self tapping stainless steel insert

INSss

For hard materials

- ***Self tapping insert with fine external thread***
- *Material: stainless steel 303 (except for M10 +M12 threads: stainless steel 430F)*



Applications

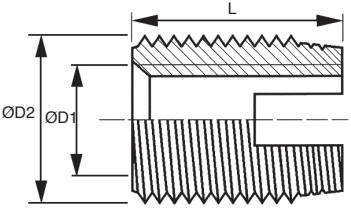
- *For use with aluminium or other non ferrous metals, thermosetting plastics and hardwoods*

Mounting

- *Mount the insert in a plain hole with the aid of the Insertion tool INS-TOOL, a tap, a drill fitted with a threaded head or an automatic threading machine.*
- *The insert should be installed in such a way that the thread/slot cuts its own thread*
- *For soft material the initial hole should be drilled at the minimum recommended size, for a hard material, at the maximum recommended size*

Info.

- *Sold by the packet*



Excellent resistance to being extracted

DISCOUNTS

Qty	1+	10+	20+	30+	40+
Disc.	List	-5%	-10%	-15%	On request

Part number	Internal thread ØD1	External thread ØD2	Length L	Recommended drill size mini	Recommended drill size maxi	Qty per packet	Stock*	Price per packet
INS300-M3/SS/B	M3	M5 X 0,5	6	4,6	4,8	20	✔	53,74 €
INS300-M4/SS/B	M4	M6,5 X 0,75	8	5,8	6,2	20	✔	52,93 €
INS300-M5/SS/B	M5	M8 X 1	10	7,1	7,6	20	✔	55,04 €
INS300-M6/SS/B	M6	M10 X 1,5	14	8,6	9,4	20	✔	61,61 €
INS300-M8/SS/B	M8	M12 X 1,5	15	10,6	11,4	20	✔	83,36 €
INS300-M10/SS/B	M10	M14 X 1,5	18	12,6	13,4	15	✔	89,00 €
INS300-M12/SS/B	M12	M16 X 1,5	22	14,6	15,4	10	✔	88,80 €

**Depending on availability - Dimensions in mm*

Stock Sta Self-threading stainless steel insert

For hard materials in hostile environments

INSss316

- ***Self-threading insert with fine external thread***
- *Material:*
  316 stainless steel

New material 316 stainless steel



Applications

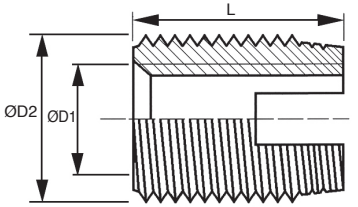
- *For use in aluminium and other non-ferrous metals as well as thermosetting plastics and hard woods*

Montage

- *The insert can be fitted into a simple hole using either a INS-TOOL installation tool, a threaded mandrel, a drill fitted with a tapping head or an automatic tapping machine*
- *The insert must be installed in such a way that the slit acts as a cutting edge to correctly tap the material*
- *For soft materials, use the minimum recommended hole diameter*
  For hard materials, use the maximum recommended diameter
- *Chamfer the hole before fitting the insert*

Info.

- *Supplied in packets*



IN STOCK*
Otherwise contact us

DISCOUNTS

Qty	1+	10+	20+	30+	40+
Disc.	List	-5%	-10%	-15%	On request

Part number	Thread ØD1	Tap ØD2	Length L	Recommanded drilled hole min	Recommanded drilled hole max	Qty per pack	Price each per pack.
INS300-M4/SS316/B	M4	M6,5 X 0,75	8	5,8	6,2	20	88,19 €
INS300-M5/SS316/B	M5	M8 X 1	10	7,1	7,6	20	98,09 €
INS300-M6/SS316/B	M6	M10 X 1,5	14	8,6	9,4	20	115,96 €
INS300-M8/SS316/B	M8	M12 X 1,5	15	10,6	11,4	20	123,67 €
INS300-M10/SS316/B	M10	M14 X 1,5	18	12,6	13,4	15	149,42 €
INS300-M12/SS316/B	M12	M16 X 1,5	22	14,6	15,4	10	119,73 €

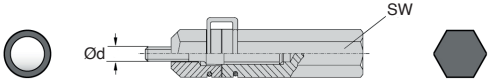
**Depending on availability - Dimensions in mm*

Insertion tool for self tapping inserts

INSTOOL — Assembly tool

- **Insertion tool for self tapping inserts**
- Hexagonal shaft and rotating hexagonal end







Example of a typical application

DISCOUNTS

Qty	1+	10+	20+	30+	40+
Disc.	List	-5%	-10%	-15%	On request

Part number	Ød	SW	Stock*	Price each 1 to 9
INS300-TOOL-M3	M3	10	✔	168,48 €
INS300-TOOL-M4	M4	10	✔	168,48 €
INS300-TOOL-M5	M5	17	✔	182,57 €
INS300-TOOL-M6	M6	17	✔	182,57 €
INS300-TOOL-M8	M8	17	✔	182,57 €
INS300-TOOL-M10	M10	19	-	319,66 €
INS300-TOOL-M12	M12	19	✔	331,07 €

*Depending on availability - Dimensions in mm

Dual-thread screw wood/metal

Steel or stainless steel

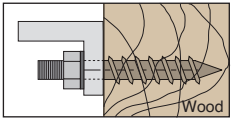
VCMB

- **Dual threaded screw wood/metal**
- Allows a metal object to be fixed to wood
- Materials:
  Galvanised steel
  Stainless steel, 304
- Supplied by the pack

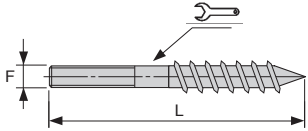


Mounting

- Screw should first be inserted into the wood using a suitable spanner
- Compatible with **N, SHN, NINA** and **NIN** nuts



Typical application



DISCOUNTS Steel

Qty	1+	6+	20+	50+
Disc.	List	-10%	-20%	On request

DISCOUNTS S/steel

Qty	1+	6+	10+
Disc.	List	-5%	On request

Part number				Qty per pack		Price each 1 to 5	
Steel	Stainless steel	ØF	L	Steel	S/steel	Steel	S/steel
VCMB5-40/B	-	M5	40	100	-	5,93 €	-
VCMB5-50/B	-	M5	50	100	-	9,82 €	-
VCMB6-60/B	VCMB6-60/SS/B	M6	60	100	100	11,55 €	38,18 €
VCMB6-80/B	VCMB6-80/SS/B	M6	80	100	100	19,09 €	47,97 €
VCMB6-100/B	VCMB6-100/SS/B	M6	100	100	100	31,24 €	64,50 €
VCMB6-120/B	VCMB6-120/SS/B	M6	120	100	100	32,36 €	72,65 €
VCMB8-50/B	VCMB8-50/SS/B	M8	50	100	100	12,33 €	101,81 €
VCMB8-60/B	VCMB8-60/SS/B	M8	60	100	100	13,30 €	59,98 €
VCMB8-80/B	VCMB8-80/SS/B	M8	80	100	50	17,50 €	40,17 €
VCMB8-100/B	VCMB8-100/SS/B	M8	100	100	50	21,81 €	54,45 €
VCMB8-120/B	VCMB8-120/SS/B	M8	120	100	50	26,57 €	63,40 €
VCMB8-140/B	VCMB8-140/SS/B	M8	140	100	50	34,36 €	73,72 €
VCMB8-160/B	VCMB8-160/SS/B	M8	160	100	50	38,39 €	72,81 €
VCMB10-60/B	-	M10	60	100	-	23,42 €	-
VCMB10-80/B	VCMB10-80/SS/B	M10	80	50	25	16,18 €	49,07 €
VCMB10-100/B	VCMB10-100/SS/B	M10	100	50	25	19,81 €	41,04 €
VCMB10-120/B	VCMB10-120/SS/B	M10	120	50	25	34,68 €	48,59 €
VCMB10-140/B	VCMB10-140/SS/B	M10	140	50	25	44,28 €	53,09 €

Dimensions in mm

Master-Plate® glueable insert

MSP

Presentation



Master Plate inserts are simple elements that can be glued to any type of material without any special preparation, subsequently allowing a screwed connection to be made.
A Master Plate insert consists of a rectangular, square or cylindrical base with a nut, a tapped insert or a 316L stainless steel threaded rod.
The wide variety of shapes available offers technicians and designers multiple solutions to their fixing problems.
The adhesive, not supplied, should be chosen according to the support material (see implementation).

Applications:
Automotive, railway, nautical industry, transportation, furnishing, construction...



Typical application

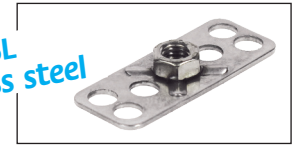
Rectangular Master-Plate® glueable insert

316L stainless steel

MSP

- ***Glueable stainless steel plate with tapped insert or threaded stud***
- *Material:*
  316L stainless steel



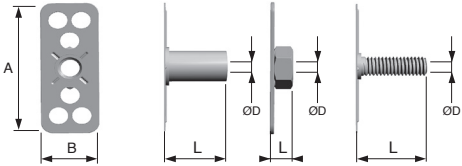


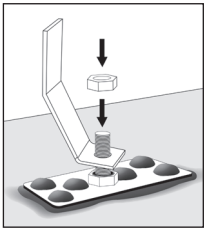
Applications

- *Industrial, transport, building, furnishings*

Info.

- *Glue not supplied*
- ***Not supplied individually, contact us for details***





Typical application

DISCOUNTS

Qty	1+	50+	100+	500+
Disc.	List	-10%	-20%	On request

Part number	A	B	ØD	L	Form	Price each 1 to 49
MSP3815T-6-5/SS	38	15	M6	5	Tapped	8,68 €
MSP3815E-5-4/SS	38	15	M5	4	Nut	3,11 €
MSP3815E-6-5/SS	38	15	M6	5	Nut	3,47 €
MSP3815E-8-6/SS	38	15	M8	6,5	Nut	3,76 €
MSP3815F-5-12/SS	38	15	M5	12	Thread	3,24 €
MSP3815F-5-16/SS	38	15	M5	16	Thread	3,30 €
MSP3815F-6-16/SS	38	15	M6	16	Thread	3,37 €
MSP3815F-6-20/SS	38	15	M6	20	Thread	3,47 €

Dimensions in mm

Cylindrical Master-Plate® glueable insert

MSP19
MSP20

316L stainless steel

- **Glueable stainless steel plate with tapped insert or threaded stud**
- Material:
  316L stainless steel

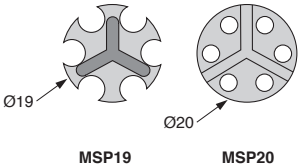


Applications

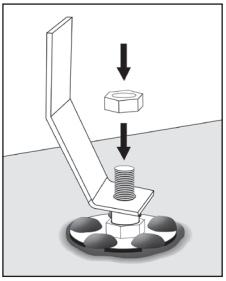
- Industrial, transport, building, furnishings

Info.

- Glue not supplied
- **Not supplied individually, contact us for details**



MSP19 **MSP20** **Tapped** **Nut**



Typical application

DISCOUNTS

Qty	1+	50+	100+	500+
Disc.	List	-10%	-20%	On request

Part number	ØA	ØD	L	Form	Price each 1 to 49
MSP19TB-5-20/SS	19	M5	20	Blind tapped	11,63 €
MSP19E-4-3/SS	19	M4	3,2	Nut	2,85 €
MSP19E-5-4/SS	19	M5	4	Nut	2,88 €
MSP20E-5-4/SS	20	M5	4	Nut	2,92 €

Dimensions in mm

Cylindrical Master-Plate® glueable insert Ø23

316L Stainless steel

MSP23

- ***Glueable stainless steel plate with tapped insert or threaded stud***
- *Material:*
  316L stainless steel

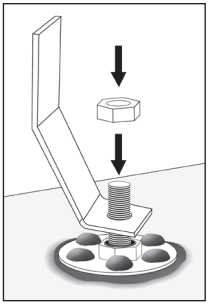


Applications

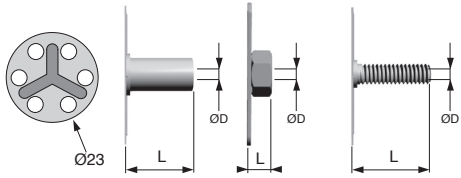
- *Industrial, transport, building, furnishings*

Info.

- *Glue not supplied*
- ***Not supplied individually, contact us for details***



Typical application



DISCOUNTS

Qty	1+	50+	100+	500+
Disc.	List	-10%	-20%	On request

Part number	A	ØD	L	Form	Price each 1 to 49
MSP23T-4-10/SS	23	M4	10	Tapped	9,14 €
MSP23T-5-10/SS	23	M5	10	Tapped	9,43 €
MSP23T-6-10/SS	23	M6	10	Tapped	9,75 €
MSP23E-4-3/SS	23	M4	3,2	Nut	2,92 €
MSP23E-5-4/SS	23	M5	4	Nut	2,95 €
MSP23E-6-5/SS	23	M6	5	Nut	3,47 €
MSP23F-4-16/SS	23	M4	16	Thread	3,08 €
MSP23F-4-20/SS	23	M4	20	Thread	3,11 €
MSP23F-5-12/SS	23	M5	12	Thread	3,11 €
MSP23F-6-25/SS	23	M6	25	Thread	3,40 €

Dimensions in mm

Cylindrical Master-Plate® glueable insert Ø38

MSP38 — 316L Stainless steel

- ***Glueable stainless steel plate with tapped insert or threaded stud***
- *Material:*
  316L stainless steel

Applications

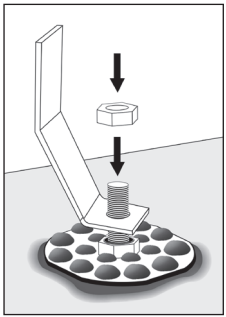
- *Industrial, transport, building, furnishings*

Info.

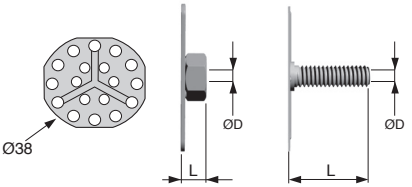
- *Glue not supplied*
- ***Not supplied individually, contact us for details***







Typical application



DISCOUNTS

Qty	1+	50+	100+	500+
Disc.	List	-10%	-20%	On request

Part number	ØA	ØD	L	Form	Price each 1 to 49
MSP38EB-8-6/SS	38	M8	6,5	Blind tapped	4,05 €
MSP38E-8-6/SS	38	M8	6,5	Nut	4,67 €
MSP38F-6-40/SS	38	M6	40	Thread	4,67 €
MSP38F-8-40/SS	38	M8	40	Thread	5,25 €

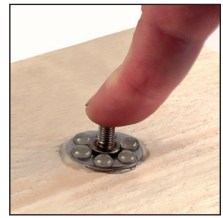
Dimensions in mm



Prepare the surface by applying a small amount of the adhesive



Place the Masterplate on the adhesive



Press down on the Masterplate so that some of the adhesive comes out of the holes



The Masterplate is ready to be assembled



End of assembly

Recommended adhesive depending on the support material:

Adhesive	Composite	Plastic	Wood	Metal	Natural stone	Chipboard	Glass
Plexus MA300	○○	○○	○	○○	○	○○	○○
LOCTITE9466	○○	○	○○	○○	○○	○○	○○
LOCTITE3425	○○	-	○○	○○	○○	○○	-

Caption: - not suitable ○ Acceptable ○○ Good

Adhesives will not work on PE, PA, PP or silicon type materials.
To correctly identify the correct adhesive to use, contact your adhesive supplier.

Cylindrical drill bushing

CDP

Treated steel

- ***For guiding drill bits during repetitive drilling or countersinking operations***
- *Good resistance in operation*
- *Material:*
  Case hardened steel



Info.

- *Bore tolerance: DH7*

Advantages

- *Facilitates the drilling operation and avoids wear of the drill bit*
- *Ensures high repeatability*

IN STOCK*
Otherwise contact us

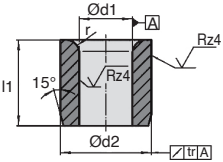
DISCOUNTS

Qty	1+	5+	10+	20+
Disc.	List	-5%	-10%	On request

Part number	Ød1	l1	Ød2 (n6)	r	Weight (g)	Price each 1 to 4
CDP2-5-6	2	6	5	1	0,7	4,98 €
CDP2-5-9	2	9	5	1	1,1	5,43 €
CDP2.1-5-6	2,1	6	5	1	0,7	5,00 €
CDP2.1-5-9	2,1	9	5	1	1,1	5,45 €
CDP2.5-5-6	2,5	6	5	1	0,7	5,00 €
CDP2.5-5-9	2,5	9	5	1	1	5,45 €
CDP3-6-8	3	8	6	1	1,3	4,98 €
CDP3-6-12	3	12	6	1	1,9	5,43 €
CDP3-6-16	3	16	6	1	2,6	11,09 €
CDP3.1-6-8	3,1	8	6	1	1,2	4,98 €
CDP3.1-6-12	3,1	12	6	1	1,9	5,43 €
CDP3.1-6-16	3,1	16	6	1	2,5	11,09 €
CDP3.5-7-8	3,5	8	7	1	1,7	7,82 €
CDP3.5-7-12	3,5	12	7	1	2,6	5,15 €
CDP3.5-7-16	3,5	16	7	1	3,6	11,09 €
CDP4-7-8	4	8	7	1	1,5	4,50 €
CDP4-7-12	4	12	7	1	2,4	5,15 €
CDP4-7-16	4	16	7	1	3,2	11,09 €
CDP4.1-8-8	4,1	8	8	1	2,2	4,68 €
CDP4.1-8-12	4,1	12	8	1	3,4	5,43 €
CDP4.1-8-16	4,1	16	8	1	4,6	9,73 €
CDP4.5-8-8	4,5	8	8	1	2,1	4,68 €
CDP4.5-8-12	4,5	12	8	1	3,1	5,43 €
CDP4.5-8-16	4,5	16	8	1	4,2	9,73 €
CDP5-8-8	5	8	8	1	1,8	4,68 €
CDP5-8-12	5	12	8	1	2,8	5,43 €
CDP5-8-16	5	16	8	1	3,7	9,73 €
CDP5.1-10-10	5,1	10	10	1,5	4,4	5,15 €
CDP5.1-10-16	5,1	16	10	1,5	7,1	5,93 €

Part number	Ød1	l1	Ød2 (n6)	r	Weight (g)	Price each 1 to 4
CDP5.1-10-20	5,1	20	10	1,5	8,9	10,64 €
CDP5.5-10-10	5,5	10	10	1,5	4,1	5,15 €
CDP5.5-10-16	5,5	16	10	1,5	6,7	5,93 €
CDP5.5-10-20	5,5	20	10	1,5	8,4	10,64 €
CDP6-10-10	6	10	10	1,5	3,8	5,15 €
CDP6-10-16	6	16	10	1,5	6,1	5,93 €
CDP6-10-20	6	20	10	1,5	7,7	10,64 €
CDP6.1-12-10	6,1	10	12	1,5	6,3	5,43 €
CDP6.1-12-16	6,1	16	12	1,5	10	6,12 €
CDP6.1-12-20	6,1	20	12	1,5	13	11,09 €
CDP6.5-12-10	6,5	10	12	1,5	6	5,43 €
CDP6.5-12-16	6,5	16	12	1,5	9,7	6,12 €
CDP6.5-12-20	6,5	20	12	1,5	12	11,09 €
CDP7-12-10	7	10	12	1,5	5,6	5,43 €
CDP7-12-16	7	16	12	1,5	9,1	6,12 €
CDP7-12-20	7	20	12	1,5	11	11,09 €
CDP7.1-12-10	7,1	10	12	1,5	5,5	5,43 €
CDP7.1-12-16	7,1	16	12	1,5	9	6,12 €
CDP7.1-12-20	7,1	20	12	1,5	11	11,09 €
CDP7.5-12-10	7,5	10	12	1,5	5,1	5,43 €
CDP7.5-12-16	7,5	16	12	1,5	8,4	6,12 €
CDP7.5-12-20	7,5	20	12	1,5	11	11,09 €
CDP8-12-10	8	10	12	1,5	4,7	5,43 €
CDP8-12-16	8	16	12	1,5	7,6	6,12 €
CDP8-12-20	8	20	12	1,5	9,6	11,09 €
CDP8.1-15-12	8,1	12	15	2	11	5,65 €
CDP8.1-15-20	8,1	20	15	2	19	6,91 €
CDP8.1-15-25	8,1	25	15	2	24	11,98 €
CDP8.5-15-12	8,5	12	15	2	11	5,65 €

**Depending on availability - Dimensions in mm*



IN STOCK*
Otherwise contact us

DISCOUNTS

Qty	1+	5+	10+	20+
Disc.	List	-5%	-10%	On request

Part number	Ød1	l1	Ød2 (n6)	r	Weight (g)	Price each 1 to 4
CDP8.5-15-20	8,5	20	15	2	18	6,91 €
CDP8.5-15-25	8,5	25	15	2	23	11,98 €
CDP9-15-12	9	12	15	2	10	5,65 €
CDP9-15-20	9	20	15	2	17	6,91 €
CDP9-15-25	9	25	15	2	22	11,98 €
CDP9.1-15-12	9,1	12	15	2	10	5,65 €
CDP9.1-15-20	9,1	20	15	2	17	6,91 €
CDP9.1-15-25	9,1	25	15	2	21	11,98 €
CDP9.5-15-12	9,5	12	15	2	9,5	5,65 €
CDP9.5-15-20	9,5	20	15	2	16	6,91 €
CDP9.5-15-25	9,5	25	15	2	20	11,98 €
CDP10-15-12	10	12	15	2	8,8	5,68 €
CDP10-15-20	10	20	15	2	15	6,93 €
CDP10-15-25	10	25	15	2	19	12,03 €
CDP10.1-18-12	10,1	12	18	2	16	6,60 €
CDP10.1-18-20	10,1	20	18	2	27	8,03 €
CDP10.1-18-25	10,1	25	18	2	33	12,44 €
CDP10.5-18-12	10,5	12	18	2	15	6,60 €
CDP10.5-18-20	10,5	20	18	2	26	8,03 €
CDP10.5-18-25	10,5	25	18	2	32	12,44 €
CDP11-18-12	11	12	18	2	14	6,60 €
CDP11-18-20	11	20	18	2	24	8,03 €
CDP11-18-25	11	25	18	2	31	12,44 €
CDP11.1-18-12	11,1	12	18	2	14	6,60 €
CDP11.1-18-20	11,1	20	18	2	24	8,03 €
CDP11.1-18-25	11,1	25	18	2	30	12,44 €
CDP11.5-18-12	11,5	12	18	2	14	6,60 €
CDP11.5-18-20	11,5	20	18	2	23	8,03 €
CDP11.5-18-25	11,5	25	18	2	29	12,44 €
CDP12-18-12	12	12	18	2	13	6,60 €
CDP12-18-20	12	20	18	2	22	8,03 €
CDP12-18-25	12	25	18	2	27	12,44 €
CDP12.1-22-16	12,1	16	22	2	32	7,35 €
CDP12.1-22-28	12,1	28	22	2	57	9,96 €
CDP12.1-22-36	12,1	36	22	2	74	15,63 €
CDP12.5-22-16	12,5	16	22	2	31	7,35 €
CDP12.5-22-28	12,5	28	22	2	66	9,96 €
CDP12.5-22-36	12,5	36	22	2	69	15,63 €
CDP13-22-16	13	16	22	2	30	7,35 €
CDP13-22-28	13	28	22	2	53	9,96 €

Part number	Ød1	l1	Ød2 (n6)	r	Weight (g)	Price each 1 to 4
CDP13-22-36	13	36	22	2	69	15,63 €
CDP14-22-16	14	16	22	2	27	7,35 €
CDP14-22-28	14	28	22	2	49	9,96 €
CDP14-22-36	14	36	22	2	63	15,63 €
CDP15-22-16	15	16	22	2	25	7,35 €
CDP15-22-28	15	28	22	2	44	9,96 €
CDP15-22-36	15	36	22	2	56	15,63 €
CDP16-26-16	16	16	26	2	45	9,96 €
CDP16-26-28	16	28	26	2	71	12,57 €
CDP16-26-36	16	36	26	2	92	19,56 €
CDP16.1-26-16	16,1	16	26	2	40	15,14 €
CDP16.1-26-28	16,1	28	26	2	71	18,51 €
CDP16.1-26-36	16,1	36	26	2	91	26,26 €
CDP16.5-26-16	16,5	16	26	2	39	9,96 €
CDP16.5-26-28	16,5	28	26	2	68	12,57 €
CDP16.5-26-36	16,5	36	26	2	88	19,56 €
CDP17-26-16	17	16	26	2	37	9,96 €
CDP17-26-28	17	28	26	2	65	12,57 €
CDP17-26-36	17	36	26	2	84	19,56 €
CDP18-26-16	18	16	26	2	33	9,96 €
CDP18-26-28	18	28	26	2	59	12,57 €
CDP18-26-36	18	36	26	2	77	19,56 €
CDP19-30-20	19	20	30	3	64	12,29 €
CDP19-30-36	19	36	30	3	117	15,42 €
CDP19-30-45	19	45	30	3	147	24,91 €
CDP20-30-20	20	20	30	3	59	12,29 €
CDP20-30-36	20	36	30	3	108	15,42 €
CDP20-30-45	20	45	30	3	136	24,91 €
CDP20.1-30-20	20,1	20	30	3	59	17,98 €
CDP20.1-30-36	20,1	36	30	3	108	21,76 €
CDP20.1-30-45	20,1	45	30	3	135	33,85 €
CDP22-30-20	22	20	30	3	49	12,29 €
CDP22-30-36	22	36	30	3	90	15,42 €
CDP22-30-45	22	45	30	3	113	24,91 €
CDP25-35-20	25	20	35	3	71	14,53 €
CDP25-35-36	25	36	35	3	130	17,98 €
CDP25-35-45	25	45	35	3	163	28,93 €
CDP30-42-25	30	25	42	3	129	25,97 €
CDP30-42-45	30	45	42	3	235	32,10 €
CDP30-42-56	30	56	42	3	293	48,81 €

*Depending on availability - Dimensions in mm

Flanged drill bushing

Stock

CDPC

Treated steel

- **For guiding drill bits during repetitive drilling or countersinking operations**
- Good resistance in operation
- Material:
  Case hardened steel



Info.

- Bore tolerance: DH7

Advantages

- Facilitates the drilling operation and avoids wear of the drill bit
- Ensures high repeatability

IN STOCK*
Otherwise contact us

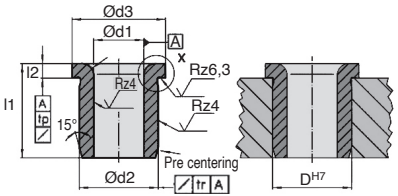
DISCOUNTS

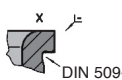
Qty	1+	5+	10+	20+
Disc.	List	-5%	-10%	On request

Part number	Ød1	l1	Ød2 (n6)	Ød3	l2	Weight (g)	Price each 1 to 4
CDPC2-5-6	2	6	5	8	2	1,2	6,63 €
CDPC2-5-9	2	9	5	8	2	1,6	7,14 €
CDPC2.1-5-6	2,1	6	5	8	2	1,2	6,63 €
CDPC2.1-5-9	2,1	9	5	8	2	1,5	7,14 €
CDPC2.5-5-6	2,5	6	5	8	2	1,1	6,63 €
CDPC2.5-5-9	2,5	9	5	8	2	1,4	7,14 €
CDPC3-6-8	3	8	6	9	2,5	1,9	6,53 €
CDPC3-6-12	3	12	6	9	2,5	2,6	7,14 €
CDPC3-6-16	3	16	6	9	2,5	3,2	12,48 €
CDPC3.1-6-8	3,1	8	6	9	2,5	1,9	6,53 €
CDPC3.1-6-12	3,1	12	6	9	2,5	2,5	7,14 €
CDPC3.1-6-16	3,1	16	6	9	2,5	3,2	12,48 €
CDPC3.5-7-8	3,5	8	7	10	2,5	2,4	6,17 €
CDPC3.5-7-12	3,5	12	7	10	2,5	3,4	6,96 €
CDPC3.5-7-16	3,5	16	7	10	2,5	4,3	12,48 €
CDPC4-7-8	4	8	7	10	2,5	2,3	6,17 €
CDPC4-7-12	4	12	7	10	2,5	3,1	6,96 €
CDPC4-7-16	4	16	7	10	2,5	3,9	12,48 €
CDPC4.1-8-8	4,1	8	8	11	2,5	3	5,97 €
CDPC4.1-8-12	4,1	12	8	11	2,5	4,2	6,35 €
CDPC4.1-8-16	4,1	16	8	11	2,5	5,3	10,71 €
CDPC4.5-8-8	4,5	8	8	11	2,5	2,9	5,97 €
CDPC4.5-8-12	4,5	12	8	11	2,5	3,9	6,35 €
CDPC4.5-8-16	4,5	16	8	11	2,5	5	10,71 €
CDPC5-8-8	5	8	8	11	2,5	2,6	5,97 €
CDPC5-8-12	5	12	8	11	2,5	3,6	6,35 €
CDPC5-8-16	5	16	8	11	2,5	4,5	10,71 €
CDPC5.1-10-10	5,1	10	10	13	3	5,5	6,17 €
CDPC5.1-10-16	5,1	16	10	13	3	8,2	6,96 €

Part number	Ød1	l1	Ød2 (n6)	Ød3	l2	Weight (g)	Price each 1 to 4
CDPC5.1-10-20	5,1	20	10	13	3	10	11,60 €
CDPC5.5-10-10	5,5	10	10	13	3	5,3	6,17 €
CDPC5.5-10-16	5,5	16	10	13	3	7,9	6,96 €
CDPC5.5-10-20	5,5	20	10	13	3	9,6	11,60 €
CDPC6-10-10	6	10	10	13	3	4,9	6,17 €
CDPC6-10-16	6	16	10	13	3	7,3	6,96 €
CDPC6-10-20	6	20	10	13	3	8,8	11,60 €
CDPC6.1-12-10	6,1	10	12	15	3	7,7	6,96 €
CDPC6.1-12-16	6,1	16	12	15	3	12	7,60 €
CDPC6.1-12-20	6,1	20	12	15	3	14	12,34 €
CDPC6.5-12-10	6,5	10	12	15	3	7,4	6,96 €
CDPC6.5-12-16	6,5	16	12	15	3	11	7,60 €
CDPC6.5-12-20	6,5	20	12	15	3	14	12,34 €
CDPC7-12-10	7	10	12	15	3	7	6,96 €
CDPC7-12-16	7	16	12	15	3	10	7,60 €
CDPC7-12-20	7	20	12	15	3	13	12,34 €
CDPC7.1-12-10	7,1	10	12	15	3	6,9	6,96 €
CDPC7.1-12-16	7,1	16	12	15	3	10	7,60 €
CDPC7.1-12-20	7,1	20	12	15	3	13	12,34 €
CDPC7.5-12-10	7,5	10	12	15	3	6,5	6,96 €
CDPC7.5-12-16	7,5	16	12	15	3	9,7	7,60 €
CDPC7.5-12-20	7,5	20	12	15	3	12	12,34 €
CDPC8-12-10	8	10	12	15	3	6	6,96 €
CDPC8-12-16	8	16	12	15	3	9	7,60 €
CDPC8-12-20	8	20	12	15	3	11	12,34 €
CDPC8.1-15-12	8,1	12	15	18	3	13	7,88 €
CDPC8.1-15-20	8,1	20	15	18	3	25	8,53 €
CDPC8.1-15-25	8,1	25	15	18	3	26	13,38 €
CDPC8.5-15-12	8,5	12	15	18	3	13	7,88 €

*Depending on availability - Dimensions in mm





IN STOCK*
Otherwise contact us

DISCOUNTS

Qty	1+	5+	10+	20+
Disc.	List	-5%	-10%	On request

Part number	Ød1	l1	Ød2 (n6)	Ød3	l2	Weight (g)	Price each 1 to 4
CDPC8.5-15-20	8,5	20	15	18	3	20	8,53 €
CDPC8.5-15-25	8,5	25	15	18	3	25	13,38 €
CDPC9-15-12	9	12	15	18	3	12	7,88 €
CDPC9-15-20	9	20	15	18	3	19	8,53 €
CDPC9-15-25	9	25	15	18	3	23	13,28 €
CDPC9.1-15-12	9,1	12	15	18	3	12	7,88 €
CDPC9.1-15-20	9,1	20	15	18	3	19	8,53 €
CDPC9.1-15-25	9,1	25	15	18	3	23	13,38 €
CDPC9.5-15-12	9,5	12	15	18	3	11	7,88 €
CDPC9.5-15-20	9,5	20	15	18	3	18	8,53 €
CDPC9.5-15-25	9,5	25	15	18	3	22	13,38 €
CDPC10-15-12	10	12	15	18	3	11	7,82 €
CDPC10-15-20	10	20	15	18	3	17	8,47 €
CDPC10-15-25	10	25	15	18	3	20	13,28 €
CDPC10.1-18-12	10,1	12	18	22	4	20	8,47 €
CDPC10.1-18-20	10,1	20	18	22	4	30	9,23 €
CDPC10.1-18-25	10,1	25	18	22	4	37	14,18 €
CDPC10.5-18-12	10,5	12	18	22	4	19	8,47 €
CDPC10.5-18-20	10,5	20	18	22	4	29	9,23 €
CDPC10.5-18-25	10,5	25	18	22	4	36	14,18 €
CDPC11-18-12	11	12	18	22	4	18	8,47 €
CDPC11-18-20	11	20	18	22	4	28	9,23 €
CDPC11-18-25	11	25	18	22	4	34	14,18 €
CDPC11.1-18-12	11,1	12	18	22	4	18	8,47 €
CDPC11.1-18-20	11,1	20	18	22	4	28	9,23 €
CDPC11.1-18-25	11,1	25	18	22	4	34	14,18 €
CDPC11.5-18-12	11,5	12	18	22	4	17	8,47 €
CDPC11.5-18-20	11,5	20	18	22	4	26	9,23 €
CDPC11.5-18-25	11,5	25	18	22	4	33	14,18 €
CDPC12-18-12	12	12	18	22	4	16	8,47 €
CDPC12-18-20	12	20	18	22	4	25	9,23 €
CDPC12-18-25	12	25	18	22	4	31	14,18 €
CDPC12.1-22-16	12,1	16	22	26	4	37	9,70 €
CDPC12.1-22-28	12,1	28	22	26	4	62	13,78 €
CDPC12.1-22-36	12,1	36	22	26	4	78	20,00 €
CDPC12.5-22-16	12,5	16	22	26	4	36	9,70 €
CDPC12.5-22-28	12,5	28	22	26	4	60	13,78 €
CDPC12.5-22-36	12,5	36	22	26	4	76	20,00 €
CDPC13-22-16	13	16	22	26	4	34	9,70 €
CDPC13-22-28	13	28	22	26	4	58	13,78 €

Part number	Ød1	l1	Ød2 (n6)	Ød3	l2	Weight (g)	Price each 1 to 4
CDPC13-22-36	13	36	22	26	4	73	20,00 €
CDPC14-22-16	14	16	22	26	4	32	9,70 €
CDPC14-22-28	14	28	22	26	4	53	13,78 €
CDPC14-22-36	14	36	22	26	4	67	20,00 €
CDPC15-22-16	15	16	22	26	4	29	9,70 €
CDPC15-22-28	15	28	22	26	4	48	13,78 €
CDPC15-22-36	15	36	22	26	4	61	20,00 €
CDPC16-26-16	16	16	26	30	4	45	12,34 €
CDPC16-26-28	16	28	26	30	4	76	16,14 €
CDPC16-26-36	16	36	26	30	4	97	22,09 €
CDPC16.1-26-16	16,1	16	26	30	4	45	17,62 €
CDPC16.1-26-28	16,1	28	26	30	4	76	21,84 €
CDPC16.1-26-36	16,1	36	26	30	4	96	28,59 €
CDPC16.5-26-16	16,5	16	26	30	4	44	12,34 €
CDPC16.5-26-28	16,5	28	26	30	4	73	16,14 €
CDPC16.5-26-36	16,5	36	26	30	4	93	21,91 €
CDPC17-26-16	17	16	26	30	4	42	12,34 €
CDPC17-26-28	17	28	26	30	4	70	16,14 €
CDPC17-26-36	17	36	26	30	4	90	21,91 €
CDPC18-26-16	18	16	26	30	4	39	12,34 €
CDPC18-26-28	18	28	26	30	4	64	16,14 €
CDPC18-26-36	18	36	26	30	4	82	21,91 €
CDPC19-30-20	19	20	30	34	5	71	16,14 €
CDPC19-30-36	19	36	30	34	5	125	21,45 €
CDPC19-30-45	19	45	30	34	5	154	32,16 €
CDPC20-30-20	20	20	30	34	5	67	16,14 €
CDPC20-30-36	20	36	30	34	5	0	21,45 €
CDPC20-30-45	20	45	30	34	5	143	32,16 €
CDPC20.1-30-20	20,1	20	30	34	5	66	21,45 €
CDPC20.1-30-36	20,1	36	30	34	5	115	28,09 €
CDPC20.1-30-45	20,1	45	30	34	5	142	41,09 €
CDPC22-30-20	22	20	30	34	5	56	16,14 €
CDPC22-30-36	22	36	30	34	5	97	21,45 €
CDPC22-30-45	22	45	30	34	5	120	32,16 €
CDPC25-35-20	25	20	35	39	5	80	20,72 €
CDPC25-35-36	25	36	35	39	5	138	25,49 €
CDPC25-35-45	25	45	35	39	5	171	37,98 €
CDPC30-42-25	30	25	42	46	5	139	30,94 €
CDPC30-42-45	30	45	42	46	5	245	36,65 €
CDPC30-42-56	30	56	42	46	5	304	55,88 €

*Depending on availability - Dimensions in mm

SEALING WASHER



p.607

HEXAGONAL HEAD BOLT WITH COLLAR



p.610

CAP NUT WITH COLLAR



p.613

CLAMPING LEVER



p.614



MUSHROOM KNOB



p.617

HYGIENIC

P. 602- 629

NARROW WING NUTS



p.619

BALL HEAD SCREWS



p.620

WING SCREW



p.622

COMBINATION SPANNER



p.628

Hygienic Design® and Hygienic Usit® Ranges

Introduction

*Products in the **Hygienic Design®** and **Hygienic Usit®** Ranges have been specifically designed for use in the food, pharmaceutical, chemical and packaging industries.*

Hygienic Design® Range

The term "Hygienic DESIGN®" refers to a set of standard design regulations for machine components or other machine elements.
Typically, components manufactured according to Hygienic DESIGN® principles have smooth surfaces so that germs, product residues and dirt are easily cleaned off. All curves, transitions and chamfers have also been designed to avoid retention of humidity so that they are also kept in an appropriately clean condition.

Advantages

- *Smooth surfaces, roughness much lower than Ra0.8µm*
- *Dirt and residue from products or cleaning materials less likely to stick so making cleaning easier.*



Hygienic Usit® Ranges

The term "Hygienic DESIGN®" refers primarily to design standards for machine components whereas products from the "Hygienic USIT®" range are patented stainless steel (A4) components with protected status. Screwed fasteners used in food technology plant construction have to be completely tight and easy to clean. Cavities where residues or cleaning liquids can collect unnoticed must be prevented as these are breeding grounds for germs and bacteria. Contamination is often only a question of time.

Advantages

- *Smooth surface, roughness less than Ra 0.8µm*
- *Impurities slide off*
- *Nothing can adhere or accumulate*
- *No risk of germination*
- *EHEDG certification*
- *Solution with no risk of any inaccessible cavities*
- *Contamination prevention*
- *Replaces non-flexible welded solutions*
- *Approved for use in food and pharmaceutical industries*
- *Can be cleaned using CIP, SIP, WIP, WIP, COP, OPC and WOP methods*



Black EPDM sealing washer

Hygienic Usit®

RDE-NHUSS

- ***Sealing washer for Hygienic Usit®***
- *Flat metal gasket with elastomer bead for cavity-free, static sealing of screwed connections.*
- *Material:*
  Stainless steel 1.4404 (316L)
  Rubber seal: 70 EPDM 291 black



For food industry use

Advantages

- *The sealing washer ensures there is no risk of any cavities within a screwed connection.*
- *Residues or cleaning liquids cannot not settle unnoticed thus avoiding any contamination by germs or bacteria.*

Use

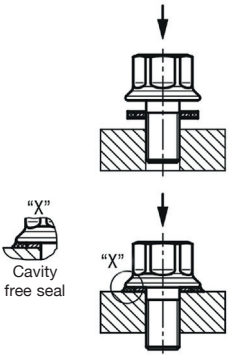
- *Even if, when tightening the screw connection, the elastomer bead cannot be overloaded by the integrated stainless-steel washer, any material will arrive sooner or later at the end of useable life. Fragments could then be found in foodstuffs. The sealing materials used and the colours used make it easy to detect these unwanted elements.*

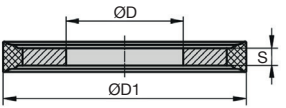
Application

- *Used mainly in food and beverage industries as well as in dairies*

Warning

- *The Hygienic Usit washer cannot guarantee a cavity-free watertight screwed connection unless it is used with screws or nuts from the Hygienic Usit® range.*





DISCOUNTS

Qty	1+	5+	10+	25+
Disc	Net	-5%	-10%	On request

Part N°	ØD	ØD1	S	For hexagonal nut	Price each 1 to 4
RDE-4N/HUSS	4,1	9,7	1	M4	6,49 €
RDE-5N/HUSS	5,1	10,7	1	M5	6,39 €
RDE-6N/HUSS	6,1	13,1	1	M6	6,74 €
RDE-8N/HUSS	8,1	16,9	1	M8	8,60 €
RDE-10N/HUSS	10,1	21,2	1,5	M10	10,00 €
RDE-12N/HUSS	12,1	25,5	1,5	M12	10,32 €
RDE-16N/HUSS	16,1	33,9	1,5	M16	15,73 €

All dimensions in mm

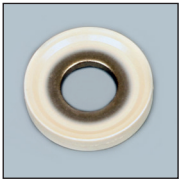
White EPDM sealing washer

RDE-WHUSS

Hygienic Usit®

- ***Sealing washer for Hygienic Usit® screws***
- *Flat metal gasket with elastomer bead for cavity-free, static sealing of screwed connections.*
- *Material:*
  Stainless steel 1.4404 (316L)
  Rubber seal:
  70 EPDM 291, white

For use in medical and pharmaceutical industries



Advantages

- *The sealing washer ensures there is no risk of any cavities within a screwed connection.*
- *Residues or cleaning liquids cannot not settle unnoticed thus avoiding any contamination by germs or bacteria.*

Use

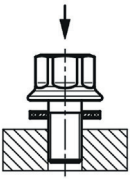
- *Even if, when tightening the screw connection, the elastomer bead cannot be overloaded by the integrated stainless-steel washer, any material will arrive sooner or later at the end of useable life. Fragments could then be found in foodstuffs. The sealing materials used and the colours used make it easy to detect these unwanted elements.*

Application

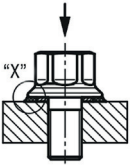
- *Mainly used in medical and pharmaceutical industries*

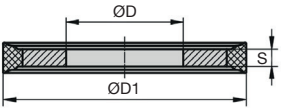
Warning

- *The Hygienic Usit washer cannot guarantee a cavity-free watertight screwed connection unless it is used with screws or nuts from the Hygienic Usit® range.*









DISCOUNTS

Qty	1+	5+	10+	25+
Disc	Net	-5%	-10%	On request

Part number	ØD	ØD1	S	For hexagonal nut	Price each 1 to 4
RDE-4W/HUSS	4,1	9,7	1	M4	7,61 €
RDE-5W/HUSS	5,1	10,7	1	M5	7,50 €
RDE-6W/HUSS	6,1	13,1	1	M6	7,86 €
RDE-8W/HUSS	8,1	16,9	1	M8	10,05 €
RDE-10W/HUSS	10,1	21,2	1,5	M10	11,67 €
RDE-12W/HUSS	12,1	25,5	1,5	M12	12,09 €
RDE-16W/HUSS	16,1	33,9	1,5	M16	18,36 €

All dimensions in mm

Blue EPDM sealing washer

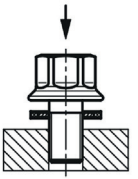
Hygienic Usit®

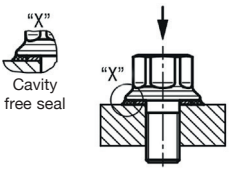
RDE-BHUSS

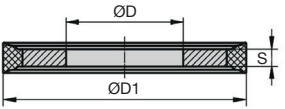
- ***Sealing washer for Hygienic Usit® screws***
- *Flat metal gasket with elastomer bead for cavity-free, static sealing of screwed connections.*
- *Material:*
  Stainless steel 1.4404 (316L)
  Rubber seal: 75 Fluoroprene XP 45, blue

For hostile environments









Advantages

- *The sealing washer ensures there is no risk of any cavities within a screwed connection.*
- *Residues or cleaning liquids cannot not settle unnoticed thus avoiding any contamination by germs or bacteria.*

Use

- *Even if, when tightening the screw connection, the elastomer bead cannot be overloaded by the integrated stainless-steel washer, any material will arrive sooner or later at the end of useable life. Fragments could then be found in foodstuffs.*
  The sealing materials used and the colours used make it easy to detect these unwanted elements.

Applications

- *For special requirements, such as very greasy and corrosive liquids or very high temperatures, which can occur for example, during cleaning operations.*

Warning

- *The Hygienic Usit washer cannot guarantee a cavity-free watertight screwed connection unless it is used with screws or nuts from the Hygienic Usit® range.*

DISCOUNTS

Qty	1+	5+	10+	25+
Disc	Net	-5%	-10%	On request

Part number	ØD	ØD1	S	For hexagonal nut	Price each 1 to 4
RDE-4B/HUSS	4,1	9,7	1	M4	12,25 €
RDE-5B/HUSS	5,1	10,7	1	M5	12,09 €
RDE-6B/HUSS	6,1	13,1	1	M6	12,71 €
RDE-8B/HUSS	8,1	16,9	1	M8	16,24 €
RDE-10B/HUSS	10,1	21,2	1,5	M10	18,82 €
RDE-12B/HUSS	12,1	25,5	1,5	M12	19,50 €
RDE-16B/HUSS	16,1	33,9	1,5	M16	29,62 €

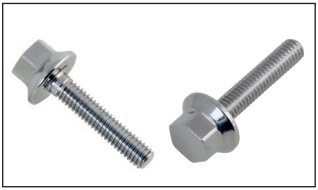
All dimensions in mm

Hexagonal headed screw with collar

VHEH HUSS

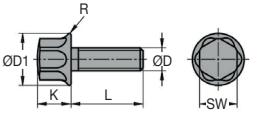
Hygienic Usit®

- ***Hexagonal headed bolt with collar for use with Hygienic Usit® sealing washers***
- *Material:*
  Stainless steel 1.4404 (316L)
  Polished mirror finish



Advantages

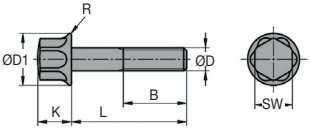
- *When combined with the RDE washer, the seal obtained is ideal in areas involving contact with products or inside aseptic insulators.*
- *Due to the extremely low surface roughness, almost no dirt particles will adhere to the screw.*
- *The high gloss polished surface allows easy cleaning.*
- *There is no countersink or recess on the screw head and no indentations or notching under the head.*



A FORM

Warning

- *A totally cavity-free, watertight seal will only be achieved when the* **RDE** *sealing washer is used with the specially modified VHEM screw*



B FORM

Accessories

- **RDE** *sealing washer*
  (tome 1 p.607 to p.609)
- **EBH** *cap nut with collar*
  (tome 1 p.613)
- **Tools** *(spanner, socket…)*
  (tome 1 p.627 to p.629)



VHEH + RDE + EBH assembled together

DISCOUNTS

Qty	1+	5+	10+
Disc	Net	-5%	On request

Part number	Form	ØD	L	ØD1	B	K	R	SW	Price each 1 to 4
VHEH4-8/HUSS	A	M4	8	10,8	-	6,9	0,45	7	5,92 €
VHEH4-10/HUSS	A	M4	10	10,8	-	6,9	0,45	7	5,98 €
VHEH4-12/HUSS	A	M4	12	10,8	-	6,9	0,45	7	6,10 €
VHEH4-16/HUSS	A	M4	16	10,8	-	6,9	0,45	7	6,33 €
VHEH4-20/HUSS	A	M4	20	10,8	-	6,9	0,45	7	6,61 €
VHEH4-25/HUSS	B	M4	25	10,8	14	6,9	0,45	7	7,15 €
VHEH4-30/HUSS	B	M4	30	10,8	14	6,9	0,45	7	7,43 €
VHEH4-35/HUSS	B	M4	35	10,8	14	6,9	0,45	7	7,88 €
VHEH4-40/HUSS	B	M4	40	10,8	14	6,9	0,45	7	8,33 €

All dimensions in mm

Part number	Form	ØD	L	ØD1	B	K	R	SW	Price each 1 to 4
VHEH5-10/HUSS	A	M5	10	11,8	-	8,5	0,5	8	5,07 €
VHEH5-12/HUSS	A	M5	12	11,8	-	8,5	0,5	8	5,16 €
VHEH5-16/HUSS	A	M5	16	11,8	-	8,5	0,5	8	5,23 €
VHEH5-20/HUSS	A	M5	20	11,8	-	8,5	0,5	8	5,68 €
VHEH5-25/HUSS	B	M5	25	11,8	16	8,5	0,5	8	5,97 €
VHEH5-30/HUSS	B	M5	30	11,8	16	8,5	0,5	8	6,70 €
VHEH5-35/HUSS	B	M5	35	11,8	16	8,5	0,5	8	7,43 €
VHEH5-40/HUSS	B	M5	40	11,8	16	8,5	0,5	8	8,07 €
VHEH5-45/HUSS	B	M5	45	11,8	16	8,5	0,5	8	9,47 €
VHEH5-50/HUSS	B	M5	50	11,8	16	8,5	0,5	8	10,81 €
VHEH6-12/HUSS	A	M6	12	14	-	9,2	0,55	10	6,46 €
VHEH6-16/HUSS	A	M6	16	14	-	9,2	0,55	10	6,61 €
VHEH6-20/HUSS	A	M6	20	14	-	9,2	0,55	10	6,83 €
VHEH6-25/HUSS	A	M6	25	14	-	9,2	0,55	10	7,30 €
VHEH6-30/HUSS	B	M6	30	14	18	9,2	0,55	10	7,93 €
VHEH6-35/HUSS	B	M6	35	14	18	9,2	0,55	10	8,73 €
VHEH6-40/HUSS	B	M6	40	14	18	9,2	0,55	10	9,41 €
VHEH6-45/HUSS	B	M6	45	14	18	9,2	0,55	10	10,17 €
VHEH6-50/HUSS	B	M6	50	14	18	9,2	0,55	10	11,11 €
VHEH6-60/HUSS	B	M6	60	14	18	9,2	0,55	10	15,40 €
VHEH8-16/HUSS	A	M8	16	18	-	11,7	0,6	13	10,69 €
VHEH8-20/HUSS	A	M8	20	18	-	11,7	0,6	13	10,95 €
VHEH8-25/HUSS	A	M8	25	18	-	11,7	0,6	13	11,45 €
VHEH8-30/HUSS	A	M8	30	18	-	11,7	0,6	13	11,81 €
VHEH8-35/HUSS	A	M8	35	18	-	11,7	0,6	13	12,71 €
VHEH8-40/HUSS	B	M8	40	18	22	11,7	0,6	13	13,58 €
VHEH8-45/HUSS	B	M8	45	18	22	11,7	0,6	13	14,91 €
VHEH8-50/HUSS	B	M8	50	18	22	11,7	0,6	13	15,75 €
VHEH8-60/HUSS	B	M8	60	18	22	11,7	0,6	13	17,63 €
VHEH8-70/HUSS	B	M8	70	18	22	11,7	0,6	13	19,08 €
VHEH8-80/HUSS	B	M8	80	18	22	11,7	0,6	13	23,55 €
VHEH10-20/HUSS	A	M10	20	22	-	14	0,75	16	13,91 €
VHEH10-25/HUSS	A	M10	25	22	-	14	0,75	16	14,09 €
VHEH10-30/HUSS	A	M10	30	22	-	14	0,75	16	14,76 €
VHEH10-35/HUSS	A	M10	35	22	-	14	0,75	16	15,71 €
VHEH10-40/HUSS	A	M10	40	22	-	14	0,75	16	17,30 €
VHEH10-45/HUSS	B	M10	45	22	26	14	0,75	16	18,25 €
VHEH10-50/HUSS	B	M10	50	22	26	14	0,75	16	19,44 €
VHEH10-60/HUSS	B	M10	60	22	26	14	0,75	16	21,09 €
VHEH10-70/HUSS	B	M10	70	22	26	14	0,75	16	23,30 €
VHEH10-80/HUSS	B	M10	80	22	26	14	0,75	16	25,45 €
VHEH12-25/HUSS	A	M12	25	26,6	-	17	0,9	18	20,48 €
VHEH12-30/HUSS	A	M12	30	26,6	-	17	0,9	18	22,30 €
VHEH12-35/HUSS	A	M12	35	26,6	-	17	0,9	18	22,77 €
VHEH12-40/HUSS	A	M12	40	26,6	-	17	0,9	18	24,72 €
VHEH12-45/HUSS	A	M12	45	26,6	-	17	0,9	18	26,53 €
VHEH12-50/HUSS	B	M12	50	26,6	30	17	0,9	18	27,64 €
VHEH12-60/HUSS	B	M12	60	26,6	30	17	0,9	18	30,29 €
VHEH12-70/HUSS	B	M12	70	26,6	30	17	0,9	18	32,99 €
VHEH12-80/HUSS	B	M12	80	26,6	30	17	0,9	18	38,96 €

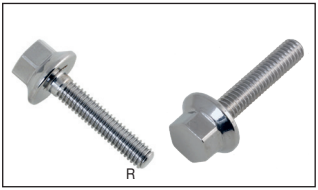
All dimensions in mm

Hexagonal headed screw with collar

VHEH HUSS

Hygienic Usit®

- ***Hexagonal headed bolt with collar for use with Hygienic Usit® sealing washers***
- *Material:*
  Stainless steel 1.4404 (316L)
  Polished mirror finish



Advantages

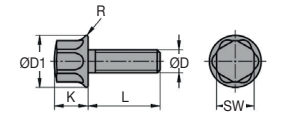
- *When combined with the RDE washer, the seal obtained is ideal in areas involving contact with products or inside aseptic insulators.*
- *Due to the extremely low surface roughness, almost no dirt particles will adhere to the screw.*
- *The high gloss polished surface allows easy cleaning.*
- *There is no countersink or recess on the screw head and no indentations or notching under the head.*

Warning

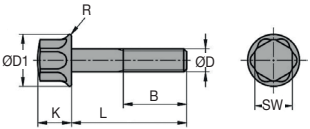
- *A totally cavity-free, watertight seal will only be achieved when the **RDE** sealing washer is used with the specially modified **VHEH** screw*

Accessories

- **RDE** *sealing washer* ***(tome 1 p.607 to p.609)***
- **EBH** *flanged cap nut* ***(tome 1 p.613)***
- **Tools** *(spanner, socket…)* ***(tome 1 p.627 to p.629)***



A FORM



B FORM



VHEH + RDE + EBH assembled together

DISCOUNTS

Qty	1+	5+	10+
Disc	Net	-5%	On request

Part number	Form	ØD	L	ØD1	B	K	R	SW	Price each 1 to 4
VHEH16-30/HUSS	A	M16	30	35	-	21,8	1,2	24	30,92 €
VHEH16-35/HUSS	A	M16	35	35	-	21,8	1,2	24	31,88 €
VHEH16-40/HUSS	A	M16	40	35	-	21,8	1,2	24	32,68 €
VHEH16-45/HUSS	A	M16	45	35	-	21,8	1,2	24	34,47 €
VHEH16-50/HUSS	A	M16	50	35	-	21,8	1,2	24	36,65 €
VHEH16-60/HUSS	A	M16	60	35	-	21,8	1,2	24	38,75 €
VHEH16-70/HUSS	B	M16	70	35	38	21,8	1,2	24	43,04 €
VHEH16-80/HUSS	B	M16	80	35	38	21,8	1,2	24	47,41 €

All dimensions in mm

Cap nut with collar

Hygienic Usit®

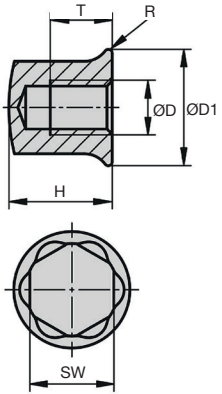
EBH HUSS

- ***Cap nut with collar for use with a Hygienic Usit® sealing washer Hygienic Usit®***
- *Material:*
  Stainless steel 1.4404 (316L)
  Polished mirror finish



Advantages

- *When combined with the **RDE** washer, a cavity free seal is obtained for use in areas where there is contact with the product or inside aseptic isolators.*
- *The surface of the nuts and the bearing surface of the sealing washer have a high gloss polished finish.*
- *Due to its extremely low roughness, almost no dirt particles can adhere to the surface.*
  The high gloss polished surface allows easy cleaning.
- *No presence of indents or depressions on the screw head or impressions or notches under the flange.*



Accessories

- **RDE** *sealing washer*
  (tome 1 p.607 to p.609)
- **VHEH** *H screw*
  (tome 1 p.610)
- **Tools** *(spanner, socket…)*
  (tome 1 p.627 to p.629)

DISCOUNTS

Qty	1+	5+	10+	25+
Disc	Net	-5%	-10%	On request

Part number	ØD	ØD1	H	R	SW	T	Price each 1 to 4
EBH-4/HUSS	M4	10,8	9	0,45	7	4,8	4,60 €
EBH-5/HUSS	M5	11,8	11	0,50	8	6,0	5,36 €
EBH-6/HUSS	M6	14,0	13	0,55	10	7,2	5,74 €
EBH-8/HUSS	M8	18,0	16	0,60	13	9,6	8,35 €
EBH-10/HUSS	M10	22,0	20	0,75	16	12,0	10,12 €
EBH-12/HUSS	M12	26,6	23	0,90	18	14,4	19,93 €
EBH-16/HUSS	M16	35,0	30	1,20	24	19,2	32,27 €

All dimensions in mm

Clamping lever with female thread and collar plate

CLAHUSS

Hygienic Usit®

- ***Indexing lever with female thread and collar for a sealing washer***
- *EHEDG certification*
- *Material:*
  Stainless steel 1.4404 (316L)
  Polished finish up to Ra<0.04



Advantages

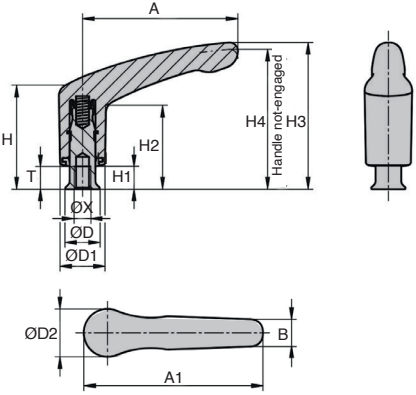
- *Intended for use in hygienic environments. The completely sealed handle and a gasket prevent contamination inside the lever.*
- *In addition, the insert is fitted with a conical insert so that the screwed connection can be hygienically sealed to the sealing washer.*
- *The lever rotates freely when not in use.*

Accessory

- **RDE** *sealing washers* **(tome 1 p.607 to p.609)**

Apply pressure to engage the lever (safety feature)





DISCOUNTS

Qty	1+	5+	10+
Disc.	Net	-5%	On request

Part number	ØX	T	ØD	ØD1	ØD2	H	H1	H2	H3	H4	A	A1	B	N° of teeth	Price each 1 to 4
CLA03M8/HUSS	M8	12	18	23,6	24,9	54,7	12,1	44	77	73,5	81,5	94	14,2	20	79,99 €
CLA03M10/HUSS	M10	15	22,3	23,6	24,9	54,7	12,1	44	77	73,5	81,5	94	14,2	20	81,19 €

All dimensions in mm

Clamping lever with male thread and collar

Hygienic Usit®

CLATHUSS

- ***Indexing lever with male thread and collar for a sealing washer***
- *EHEDG certification*
- *Material:*
  Stainless steel 1.4404 (316L)
  Polished finish up to Ra<0.04



Advantages

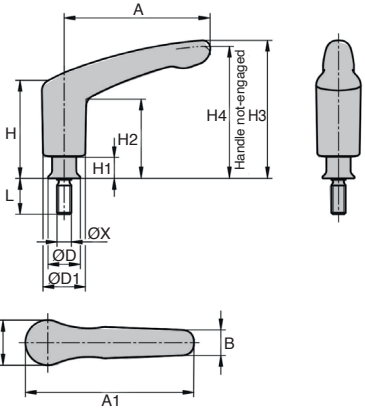
- *Intended for use in hygienic environments. The completely sealed handle and a gasket prevent contamination inside the lever.*
- *In addition, the insert is fitted with a conical collar so that the screwed connection can be hygienically sealed to the sealing washer.*
- *The lever rotates freely when not in use.*

Accessory

- **RDE** *sealing washers* **(tome 1 p.607 to p.609)**

Apply pressure
to engage the lever
(safety feature)





DISCOUNTS

Qty	1+	5+	10+
Disc.	Net	-5%	On request

Part number	ØX	L	ØD	ØD1	ØD2	H	H1	H2	H3	H4	A	A1	B	N° of teeth	Price each 1 to 4
CLA03T8/HUSS	M8	30	18	23,6	24,9	54,7	12,1	44	77	73,5	81,5	94	14,2	20	83,13 €
CLA03T10/HUSS	M10	40	22,3	23,6	24,9	54,7	12,1	44	77	73,5	81,5	94	14,2	20	87,31 €

All dimensions in mm

Mushroom knob with male thread and high head

BCFH HUSS

Hygienic Usit®

- ***Mushroom knob with a male thread and high head for use with Hygienic Usit® sealing washers ®***
- *The high head makes this mushroom knob ideal for manual lateral movements.*
- *Fully polished surface with a roughness much lower than Ra0.8µm.*
- *Material:*
  Stainless steel 1.4404 (316L)
  Mirror polished finish

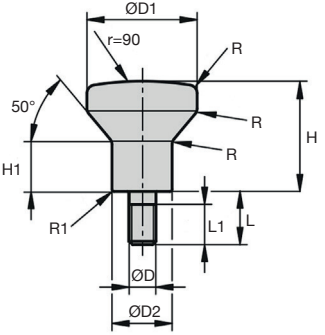


Advantages

- *Regardless of the mounting position of the mushroom knob, dirt and residue from product or cleaning material will not adhere. This guarantees easy cleaning.*
- *USIT® Hygienic sealing washers are used to seal the screwed connection.*
- *The stem of the mushroom knob is specially designed to ensure an almost cavity free seal thus meeting hygiene requirements.*

Accessory

- **RDE** *sealing washers*
  (tome 1 p.607 to p.609)



DISCOUNTS

Qty	1+	6+	10+	25+
Disc.	Prix	-5%	-10%	On request

Part number	ØD	ØD1	ØD2	H	H1	L	L1	R	R1	Price each 1 to 4
BCFH-4/HUSS	M4	20	10,8	19	8	8	7	3	0,45	15,12 €
BCFH-5/HUSS	M5	21	11,8	21	10	10	9	3	0,50	16,35 €
BCFH-6/HUSS	M6	25	14,2	25	12	12	11	3	0,55	18,20 €
BCFH-8/HUSS	M8	33	18,0	33	15	16	15	4	0,60	30,63 €
BCFH-10/HUSS	M10	40	22,3	40	19	20	19	4	0,75	32,71 €

All dimensions in mm

Mushroom knob with female thread and high head

Hygienic Usit®

BCTHHUSS

- ***Mushroom knob with a female thread and high head for use with Hygienic Usit® sealing washers***
- *The high head makes this mushroom knob ideal for manual lateral movements.*
- *Fully polished surface with a roughness much lower than Ra0.8µm.*
- *Material:*
  Stainless steel 1.4404 (316L)
  Mirror polished finish

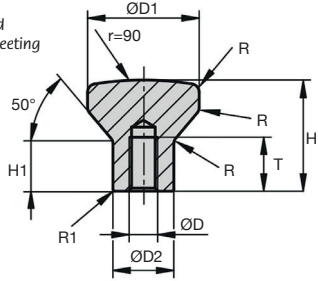


Advantages

- *Regardless of the mounting position of the mushroom knob, dirt and residue from product or cleaning material will not adhere. This guarantees easy cleaning.*
- *USIT® Hygienic sealing washers are used to seal the screwed connection.*
- *The base of the mushroom knob is designed to ensure an almost cavity free seal thus meeting hygiene requirements.*

Accessory

- **RDE** *sealing washers* ***(tome 1 p.607 to p.609)***



DISCOUNTS

Qty	1+	6+	10+	25+
Disc.	Net	-5%	-10%	On request

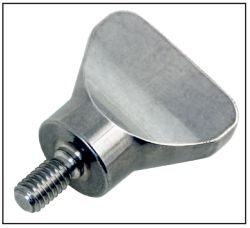
Part number	ØD	ØD1	ØD2	H	H1	T	R	R1	Price each 1 to 4
BCTH-4/HUSS	M4	20	10,8	19	8	10	3	0,45	15,20 €
BCTH-5/HUSS	M5	21	11,8	21	10	12	3	0,50	15,81 €
BCTH-6/HUSS	M6	25	14,2	25	12	12	3	0,55	17,58 €
BCTH-8/HUSS	M8	33	18,0	33	15	16	4	0,60	28,42 €
BCTH-10/HUSS	M10	40	22,3	40	19	20	4	0,75	30,31 €

All dimensions in mm

Wing screw for safety washers

VPRHUSS

Hygienic Usit®



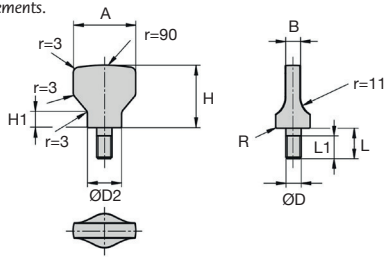
- ***Wing screw for use with Hygienic Usit® safety washers***
- *The wing screw makes perfect screw connections extremely easy.*
- *They can be easily opened or re-tightened without tools.*
- *Generous rounded form*
- *Fully polished surface, roughness less than Ra 0.8µm*
- *Material:*
  Stainless steel 1.4404 (316L)
  Polished mirror finish

Advantages

- *Ideal for use in areas where there is contact with the product or inside aseptic isolators.*
- *Regardless of the mounting position of the wing screw, dirt and residue from products or cleaning materials will not be retained.*
  This guarantees easy cleaning.
- *The base of the wing screw is specially designed for an almost cavity-free seal of the screwed connection thus meeting hygiene requirements.*

Accessory

- **RDE** *sealing washer*
  (tome 1 p.607 to p.609)



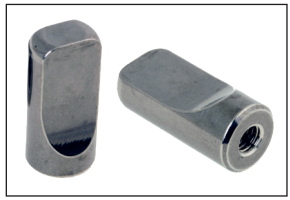
DISCOUNTS

Qty	1+	5+	10+	25+
Disc	Prix	-5%	-10%	On request

Part number	ØD	ØD2	A	H	H1	B	R	L	L1	Price each 1 to 4
VPR-4/HUSS	M4	10,8	20	19	5,3	4	0,45	8	7	22,26 €
VPR-5/HUSS	M5	11,8	21	21	6,0	5	0,50	10	9	23,44 €
VPR-6/HUSS	M6	14,2	25	25	7,0	6	0,55	12	11	26,22 €
VPR-8/HUSS	M8	18,0	33	33	8,4	8	0,60	16	15	35,11 €
VPR-10/HUSS	M10	22,3	40	40	10,0	10	0,75	20	19	55,60 €

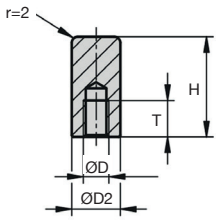
All dimensions in mm

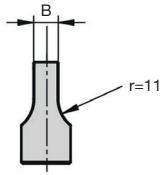
- ***Narrow wing nut, manual operation***
- *Allows a threaded connection to be made very easily*
- *Tool-free handling*
- *Fully polished surface*
- *Material:*
  Stainless steel 1.4404 (316L)
  Polished finish < Ra 0.8 µm



Advantages

- *Polished surface allows for easy cleaning*
- *Dirt or residue from products or cleaners will not adhere.*







DISCOUNTS

Qty	1+	5+	10+	25+
Disc	Net	-5%	-10%	On request

Part number	ØD	ØD2	H	B	T	Price each 1 to 4
EPE-4/HDSS	M4	9	20	4,5	6	13,55 €
EPE-5/HDSS	M5	10	22	4,5	6	14,05 €
EPE-6/HDSS	M6	12	22	5,5	7	15,31 €
EPE-8/HDSS	M8	16	25	8,0	9	15,82 €
EPE-10/HDSS	M10	20	30	10,0	11	16,85 €

All dimensions in mm

Ball head screws

VTSMHDSS

Hygienic Usit®

- ***Ball head screws***
- *Specially designed component for fixing cladding panels, Plexiglass screens etc*
- *Material:*
  Stainless steel 1.4404 (316L)
  Polished finish Ra<0.8



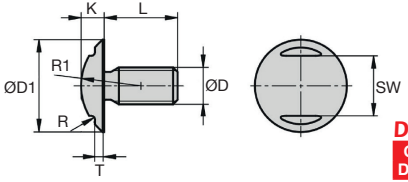


Advantages

- *The oversized flange and the thread undercut ensure a stress-free, uniform force distribution on the supported element.*
- *Optimised form for use in hygienic environments.*
- *Dirt and residue from products or cleaners are practically non-adherent, guaranteeing easy cleaning*

Accessories

- *For tightening and loosening the screws without damaging them, use the **CM** flat spanner with protective cap* ***(tome 1 p.628)*** *in combination with the **CM-CF** accessory* ***(tome 1 p.629)***



DISCOUNTS

Qty	1+	5+	10+	25+
Disc.	Net	-5%	-10%	On request

Part number	ØD	ØD1	K	T	SW	R	R1	L	Price each. 1 to 4
VTSM3-4/HDSS	M3	8	1,8	0,6	5	0,3	5,2	4	6,82 €
VTSM3-5/HDSS	M3	8	1,8	0,6	5	0,3	5,2	5	6,82 €
VTSM3-6/HDSS	M3	8	1,8	0,6	5	0,3	5,2	6	6,93 €
VTSM3-8/HDSS	M3	8	1,8	0,6	5	0,3	5,2	8	7,03 €
VTSM3-10/HDSS	M3	8	1,8	0,6	5	0,3	5,2	10	7,17 €
VTSM4-5/HDSS	M4	11	2,9	1	6	0,3	6,7	5	7,11 €
VTSM4-6/HDSS	M4	11	2,9	1	6	0,3	6,7	6	7,11 €
VTSM4-8/HDSS	M4	11	2,9	1	6	0,3	6,7	8	7,25 €
VTSM4-10/HDSS	M4	11	2,9	1	6	0,3	6,7	10	7,32 €
VTSM4-12/HDSS	M4	11	2,9	1	6	0,3	6,7	12	7,34 €

All dimensions in mm

DISCOUNTS

Qty	1+	5+	10+	25+
Disc.	Net	-5%	-10%	On request

Part number	ØD	ØD1	K	T	SW	R	R1	L	Price each. 1 to 4
VTSM5-6/HDSS	M5	14	4,0	1	8	0,4	8,6	6	7,56 €
VTSM5-8/HDSS	M5	14	4,0	1	8	0,4	8,6	8	7,75 €
VTSM5-10/HDSS	M5	14	4,0	1	8	0,4	8,6	10	7,86 €
VTSM5-12/HDSS	M5	14	4,0	1	8	0,4	8,6	12	8,06 €
VTSM5-16/HDSS	M5	14	4,0	1	8	0,4	8,6	16	8,26 €
VTSM6-8/HDSS	M6	17	5,0	1,5	10	0,6	10	8	8,14 €
VTSM6-10/HDSS	M6	17	5,0	1,5	10	0,6	10	10	8,35 €
VTSM6-12/HDSS	M6	17	5,0	1,5	10	0,6	10	12	8,54 €
VTSM6-16/HDSS	M6	17	5,0	1,5	10	0,6	10	16	8,88 €
VTSM6-20/HDSS	M6	17	5,0	1,5	10	0,6	10	20	9,10 €
VTSM8-10/HDSS	M8	20	5,0	1,5	13	0,8	13	10	8,44 €
VTSM8-12/HDSS	M8	20	5,0	1,5	13	0,8	13	12	8,69 €
VTSM8-16/HDSS	M8	20	5,0	1,5	13	0,8	13	16	9,07 €
VTSM8-20/HDSS	M8	20	5,0	1,5	13	0,8	13	20	9,38 €
VTSM8-25/HDSS	M8	20	5,0	1,5	13	0,8	13	25	9,50 €
VTSM10-12/HDSS	M10	22	6,4	1,5	15	0,9	13,5	12	11,06 €
VTSM10-16/HDSS	M10	22	6,4	1,5	15	0,9	13,5	16	11,38 €
VTSM10-20/HDSS	M10	22	6,4	1,5	15	0,9	13,5	20	11,73 €
VTSM10-25/HDSS	M10	22	6,4	1,5	15	0,9	13,5	25	12,02 €
VTSM10-30/HDSS	M10	22	6,4	1,5	15	0,9	13,5	30	12,31 €
VTSM10-37/HDSS	M10	22	6,4	1,5	15	0,9	13,5	37	13,96 €
VTSM12-16/HDSS	M12	27	7,5	1,5	19	1,0	16,3	16	13,24 €
VTSM12-20/HDSS	M12	27	7,5	1,5	19	1,0	16,3	20	13,63 €
VTSM12-25/HDSS	M12	27	7,5	1,5	19	1,0	16,3	25	14,33 €
VTSM12-30/HDSS	M12	27	7,5	1,5	19	1,0	16,3	30	14,96 €
VTSM12-35/HDSS	M12	27	7,5	1,5	19	1,0	16,3	35	15,54 €
VTSM16-20/HDSS	M16	36	9,0	1,5	24	1,1	23	20	17,42 €
VTSM16-25/HDSS	M16	36	9,0	1,5	24	1,1	23	25	18,36 €
VTSM16-30/HDSS	M16	36	9,0	1,5	24	1,1	23	30	19,30 €
VTSM16-35/HDSS	M16	36	9,0	1,5	24	1,1	23	35	20,80 €
VTSM16-40/HDSS	M16	36	9,0	1,5	24	1,1	23	40	21,36 €

All dimensions in mm

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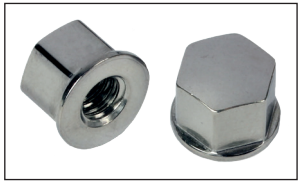


Compact cap nut

Hygienic Design®

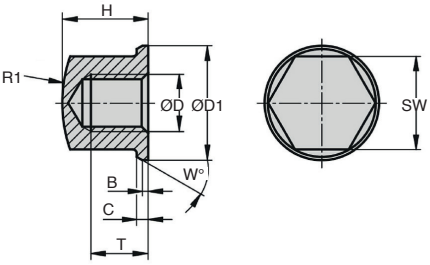
EBCHDSS

- **Compact cap nut**
- Material:
  Stainless steel 1.4404 (316L)
  Polished finish



Advantages

- The surface of the cap nut is polished and is specially shaped for use in hygienic environments
- The head of the nut is hemispherical and the collar has a conical top face
- The overall height has been kept deliberately low to reduce any inconvenient edges to a minimum.





DISCOUNTS

Qty	1+	5+	10+	25+	50+
Disc	Net	-5%	-10%	-15%	On request

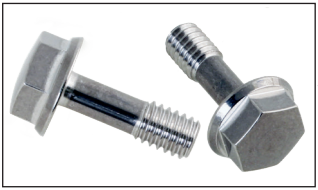
Part number	ØD	ØD1	B	C	H	R1	SW	T	W	Price each 1 to 4
EBC-3/HDSS	M3	6,8	0,25	0,5	4,95	8,8	5,5	3	20	3,92 €
EBC-4/HDSS	M4	9	0,30	0,8	6,5	10	7	4	30	3,99 €
EBC-5/HDSS	M5	10	0,50	1,0	7	16	8	4	30	4,19 €
EBC-6/HDSS	M6	12	0,80	1,0	9	16	10	6	30	5,12 €
EBC-8/HDSS	M8	16	0,80	1,6	12	20	13	8	30	5,32 €
EBC-10/HDSS	M10	20	1,00	2,0	14	32	16	10	30	6,34 €
EBC-12/HDSS	M12	24	1,00	2,5	16	35	19	11	30	12,34 €

All dimensions in mm

Hexagonal headed bolt with narrow shaft

VHTM HDSS

Hygienic Design®



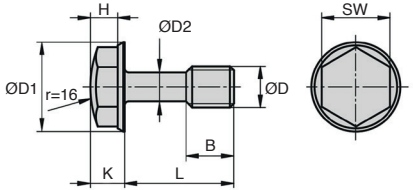
- ***Thin shaft bolts for use in hygienic environments***
- *Material:*
  Stainless steel 1.4404 (316L)
  Polished finish Ra<0.8

Advantages

- *In combination with a clamping element, these thin shafted screws are designed against becoming detached accidentally, thus meeting the requirements of European standard 2006/42/EG*
- *Dirt and residues of product or cleaning materials will not remain, ensuring easy cleaning*

Accessories

- **RDS** *safety washer to secure the screw to the other component before assembly* *(see page 60)*



DISCOUNTS

Qty	1+	5+	10+	25+	50+
Disc.	Net	-5%	-10%	-15%	On request

Part number	ØD	ØD1	ØD2	H	B	K	L	SW	Price each 1 to 4
VHTM4-8/HDSS	M4	9,2	3,1	3,0	5,0	4,0	8,0	7,0	7,17 €
VHTM4-10/HDSS	M4	9,2	3,1	3,0	5,0	4,0	10,0	7,0	7,20 €
VHTM4-12/HDSS	M4	9,2	3,1	3,0	5,0	4,0	12,0	7,0	7,30 €
VHTM4-16/HDSS	M4	9,2	3,1	3,0	5,0	4,0	16,0	7,0	7,37 €
VHTM4-20/HDSS	M4	9,2	3,1	3,0	5,0	4,0	20,0	7,0	7,44 €
VHTM5-8/HDSS	M5	10,5	3,7	3,7	6,0	4,7	8,0	8,0	6,62 €
VHTM5-10/HDSS	M5	10,5	3,7	3,7	6,0	4,7	10,0	8,0	7,53 €
VHTM5-12/HDSS	M5	10,5	3,7	3,7	6,0	4,7	12,0	8,0	7,64 €
VHTM5-16/HDSS	M5	10,5	3,7	3,7	6,0	4,7	16,0	8,0	7,73 €
VHTM5-20/HDSS	M5	10,5	3,7	3,7	6,0	4,7	20,0	8,0	7,79 €
VHTM5-25/HDSS	M5	10,5	3,7	3,7	6,0	4,7	25,0	8,0	7,92 €

All dimensions in mm

Part number	ØD	ØD1	ØD2	H	B	K	L	SW	Price each 1 to 4
VHTM6-8/HDSS	M6	13,0	4,2	4,0	7,0	5,0	8,0	10,0	7,19 €
VHTM6-12/HDSS	M6	13,0	4,2	4,0	7,0	5,0	12,0	10,0	8,26 €
VHTM6-16/HDSS	M6	13,0	4,2	4,0	7,0	5,0	16,0	10,0	8,42 €
VHTM6-20/HDSS	M6	13,0	4,2	4,0	7,0	5,0	20,0	10,0	8,55 €
VHTM6-25/HDSS	M6	13,0	4,2	4,0	7,0	5,0	25,0	10,0	8,83 €
VHTM6-30/HDSS	M6	13,0	4,2	4,0	7,0	5,0	30,0	10,0	8,98 €
VHTM6-35/HDSS	M6	13,0	4,2	4,0	7,0	5,0	35,0	10,0	9,14 €
VHTM6-40/HDSS	M6	13,0	4,2	4,0	7,0	5,0	40,0	10,0	9,41 €
VHTM6-45/HDSS	M6	13,0	4,2	4,0	7,0	5,0	45,0	10,0	9,60 €
VHTM6-50/HDSS	M6	13,0	4,2	4,0	7,0	5,0	50,0	10,0	9,77 €
VHTM6-60/HDSS	M6	13,0	4,2	4,0	7,0	5,0	60,0	10,0	10,22 €
VHTM8-16/HDSS	M8	16,8	6,0	5,5	9,0	6,5	16,0	13,0	9,30 €
VHTM8-20/HDSS	M8	16,8	6,0	5,5	9,0	6,5	20,0	13,0	9,60 €
VHTM8-25/HDSS	M8	16,8	6,0	5,5	9,0	6,5	25,0	13,0	9,84 €
VHTM8-30/HDSS	M8	16,8	6,0	5,5	9,0	6,5	30,0	13,0	10,19 €
VHTM8-35/HDSS	M8	16,8	6,0	5,5	9,0	6,5	35,0	13,0	10,46 €
VHTM8-40/HDSS	M8	16,8	6,0	5,5	9,0	6,5	40,0	13,0	10,74 €
VHTM8-45/HDSS	M8	16,8	6,0	5,5	9,0	6,5	45,0	13,0	11,06 €
VHTM8-50/HDSS	M8	16,8	6,0	5,5	9,0	6,5	50,0	13,0	11,34 €
VHTM8-60/HDSS	M8	16,8	6,0	5,5	9,0	6,5	60,0	13,0	11,93 €
VHTM8-65/HDSS	M8	16,8	6,0	5,5	9,0	6,5	65,0	13,0	10,91 €
VHTM8-70/HDSS	M8	16,8	6,0	5,5	9,0	6,5	70,0	13,0	12,58 €
VHTM10-20/HDSS	M10	20,6	7,7	7,3	12,0	8,3	20,0	16,0	11,06 €
VHTM10-25/HDSS	M10	20,6	7,7	7,3	12,0	8,3	25,0	16,0	11,47 €
VHTM10-30/HDSS	M10	20,6	7,7	7,3	12,0	8,3	30,0	16,0	11,93 €
VHTM10-35/HDSS	M10	20,6	7,7	7,3	12,0	8,3	35,0	16,0	12,34 €
VHTM10-40/HDSS	M10	20,6	7,7	7,3	12,0	8,3	40,0	16,0	12,83 €
VHTM10-45/HDSS	M10	20,6	7,7	7,3	12,0	8,3	45,0	16,0	13,28 €
VHTM10-50/HDSS	M10	20,6	7,7	7,3	12,0	8,3	50,0	16,0	13,75 €
VHTM10-60/HDSS	M10	20,6	7,7	7,3	12,0	8,3	60,0	16,0	14,67 €
VHTM10-70/HDSS	M10	20,6	7,7	7,3	12,0	8,3	70,0	16,0	15,69 €
VHTM10-80/HDSS	M10	20,6	7,7	7,3	12,0	8,3	80,0	16,0	16,70 €

All dimensions in mm

Safety washer

RDS HDSS

Hygienic Usit ®

- ***Safety washer for securing a screw to a threaded component, thus meeting the requirements of the European standard 2006/42/EG***
- *Screw the washer onto the threaded part and then let it move freely on the thinner shaft*
- *Material:*
  Stainless steel 1.4404 (316L)



Advantages

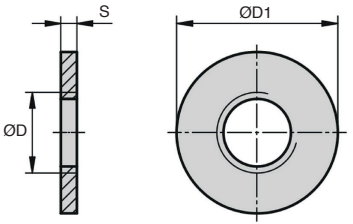
- *The washer will remain attached to the screw and will not accidentally fall off*

Accessories

- ***VHTM** hexagonal headed bolt*
  (tome 1 p.624)



Washer with VHTM screw



DISCOUNTS

Qty	1+	5+	10+	25+	50+
Disc	Prix	-5%	-10%	-15%	On request

Part number	ØD	ØD1	S	Price each 1 to 4
RDS-3/HDSS	M3	6	1,5	4,61 €
RDS-4/HDSS	M4	8	1,5	4,72 €
RDS-5/HDSS	M5	10	1,5	4,98 €
RDS-6/HDSS	M6	12	1,5	5,05 €
RDS-8/HDSS	M8	16	2,0	5,36 €
RDS-10/HDSS	M10	20	2,0	5,53 €

All dimensions in mm

Socket with protective insert

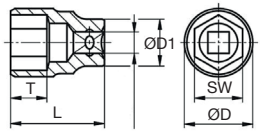
Hygienic Design® and Hygienic Usit® DEP-HD

- ***Socket with protective plastic insert for mounting Hygienic Design® and Usit® products***
- *Materials:*
  Socket: tool steel
  Insert: special PETP



Advantages

- *1/2" drive socket with a plastic insert to tighten and loosen screws and nuts in the Hygienic range. The plastic insert is made of special PETP and is FDA approved. The inserts are pressed into the socket by hand. Their special shape, combined with a clamping device, ensures optimal retention inside the socket.*
- *No special tools are required to replace worn plastic inserts.*
- *With a tightening torque (according to DIN standard for A4-70 screws and nuts, friction coefficient 0.12μ) the inserts plastic have a life span of up to 1,000 cycles or more.*



□12,5(1/2")

DEP/HD socket



DEP/HD/INS insert

DISCOUNTS

Qty	1+	5+	10+
Disc	Net	-5%	On request

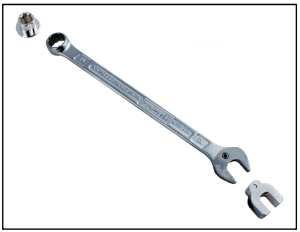
Part number	ØD	ØD1	L	T	SW	SW1	Suitable for hexagonal screw	Price each 1 to 4
Socket								
DEP-11/HD	16,6	22	37,3	10,1	11	-	-	29,77 €
DEP-13/HD	19,1	22	37,3	10,6	13	-	-	29,64 €
DEP-16/HD	22,9	23,6	37,1	11,3	16	-	-	31,20 €
DEP-19/HD	26,6	23	37,0	13,2	19	-	-	32,23 €
DEP-21/HD	29,0	25	36,8	12,9	21	-	-	50,16 €
DEP-27/HD	35,2	25	44,4	18,1	27	-	-	59,26 €
Protective insert								
DEP-8/HD/INS	-	-	18,0	6	11	8	M5	12,62 €
DEP-10/HD/INS	-	-	19,5	10	13	10	M6	12,73 €
DEP-13/HD/INS	-	-	21,5	11	16	13	M8	13,96 €
DEP-16/HD/INS	-	-	22,0	13,5	19	16	M10	14,66 €
DEP-18/HD/INS	-	-	21,5	12	21	18	M12	15,17 €
DEP-24/HD/INS	-	-	26,5	18	27	24	M16	19,95 €

All dimensions in mm

Combination spanner

CMHD Hygienic Usit® and Hygienic Design®

- ***Combination spanner to be used with protective inserts for mounting Hygienic Usit® and Hygienic Design® products***
- *Materials:*
  Spanner: Tool steel
  Inserts: AlSi1MgMn

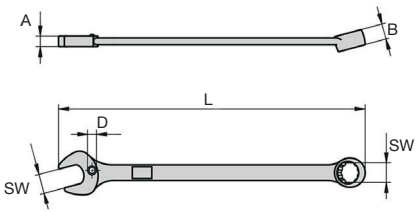


Advantages

- *The protective caps have been specifically designed for fastening and un-fastening screwed connections with delicate surfaces.*
- *The protective caps will safely avoid the risk of contact corrosion with stainless steel screwed connections.*
- *The protective cap is safely held in the spanner thanks to its special form and a sprung clip.*

Accessories

- **Use the **CM/HD/CF** insert with the open-ended spanner and the **CM/HD/CO** insert with the ring spanner.* ***(tome 1 p.629)***



DISCOUNTS

Qty	1+	5+	10+
Disc.	Net	-5%	On request

Part number	SW	SW2*	A	B	L	Price each 1 to 4
CM-10/HD	10	7	5,0	8,0	154,5	26,80 €
CM-11/HD	11	8	5,5	8,4	168,5	33,12 €
CM-13/HD	13	10	6,3	10,0	193,0	33,01 €
CM-16/HD	16	13	7,0	11,4	230,5	34,57 €
CM-19/HD	19	16	8,0	13,5	268,5	35,68 €
CM-21/HD	21	18	8,5	13,7	292,0	53,63 €
CM-27/HD	27	24	10,5	16,0	380,0	62,90 €

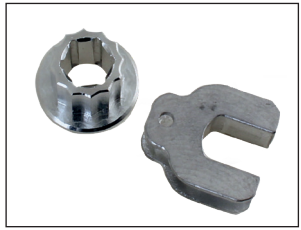
All dimensions in mm

Protective inserts for combination spanner

Hygienic Usit® and Hygienic Design®

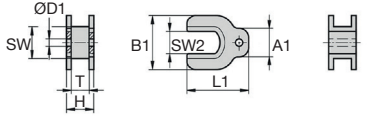
CM HDCO
CM HDCF

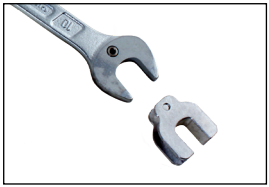
- ***Protective inserts to be used with the CM combination spanner for mounting Hygienic Usit® and Hygienic Design® products***
- *Material:*
  Inserts: AlSi1MgMn

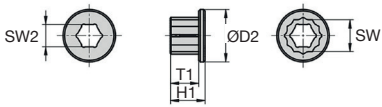


Advantages

- *The protective caps have been specifically designed for fastening and un-fastening screwed connections with delicate surfaces.*
- *The protective caps will safely avoid the risk of contact corrosion with stainless steel screwed connections.*
- *The inserts are made of aluminium alloy EN AW 602 – a special aluminium suitable for contact with foodstuffs*
- *The protective cap is safely held in the spanner thanks to its special form and a sprung clip.*







DISCOUNTS

Qty	1+	5+	10+
Disc.	Net	-5%	On request

Part number	For spanner	SW	SW2	A1	B1	ØD1	ØD2	L1	T	T1	H	H1	Price each 1 to 4
For open-ended spanner													
CM-10/HD/CF	CM-10/HD	10	7	9	17	2,3	-	19,4	5,6	-	8,6	-	24,31 €
CM-11/HD/CF	CM-11/HD	11	8	9	18	2,3	-	20,7	5,7	-	8,7	-	24,50 €
CM-13/HD/CF	CM-13/HD	13	10	10	22	3	-	23,2	6,7	-	10,7	-	24,66 €
CM-16/HD/CF	CM-16/HD	16	13	13	27	3	-	28,6	7,7	-	11,7	-	26,30 €
CM-19/HD/CF	CM-19/HD	19	16	13	30	4	-	32,5	8,6	-	12,6	-	27,82 €
CM-21/HD/CF	CM-21/HD	21	18	13	32	4	-	35,0	9,0	-	13,0	-	28,09 €
CM-27/HD/CF	CM-27/HD	27	24	14	40	4	-	43,8	10,8	-	15,0	-	30,02 €
For ring spanner													
CM-10/HD/CO	CM-10/HD	10	7	-	-	-	17	-	-	8,0	-	11,0	24,32 €
CM-11/HD/CO	CM-11/HD	11	8	-	-	-	18	-	-	9,4	-	11,4	24,51 €
CM-13/HD/CO	CM-13/HD	13	10	-	-	-	21	-	-	11,0	-	13,0	24,61 €
CM-16/HD/CO	CM-16/HD	16	13	-	-	-	25	-	-	12,4	-	14,4	26,27 €
CM-19/HD/CO	CM-19/HD	19	16	-	-	-	30	-	-	14,5	-	16,5	27,85 €
CM-21/HD/CO	CM-21/HD	21	18	-	-	-	32	-	-	14,7	-	16,7	28,06 €
CM-27/HD/CO	CM-27/HD	27	24	-	-	-	41	-	-	17,0	-	19,0	29,99 €

All dimensions in mm



BOXED SET OF PARALLEL KEYS



p.632

BOX OF ASSORTED SPRING PINS



p.634

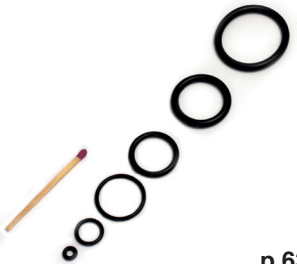
BOXED SET OF SPRING PINS



p.635

BOX SET OF NITRILE O-RINGS





p.638

BOX

P. 632-656

BOX SET OF HOSE CLAMPS



p.650

BOXED SET OF WIDE THREADED SELF TAPPING INSERTS



p.652

BOX SET OF HEXAGONAL NUTS



p.654

Boxed set of DIN6885A parallel keys

Stock

BOXKK
BOXKKSS

Steel or stainless steel keys

- **Round end keys conforming to DIN6885A (Type A)**

Applications

- Ideal for maintenance or workshop applications

Accessories

- Rounded end parallel key DIN 6885

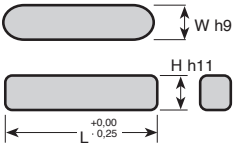
KK, KKss (tome 1 p.490-p.491)



Steel or stainless steel

Box contents - BOX-KK (steel)

Quantity	W	H	L
10	3	3	15
20	4	4	15
10	5	5	15
20	5	5	20
25	6	6	25
10	6	6	40
5	6	6	90
25	8	7	25
25	8	7	30
20	8	7	40
20	8	7	50
10	8	7	70
5	8	7	100
20	10	8	40
5	10	8	100
20	12	8	36
3	12	8	100
15	14	9	40
10	14	9	50
3	14	9	100



Box contents - BOX-KK/SS (stainless steel)

Quantity	W	H	L
10	4	4	20
10	5	5	20
10	6	6	20
10	6	6	25
10	6	6	40
10	8	7	25
5	8	7	35
2	8	7	130
10	10	8	25
2	12	8	90

DISCOUNTS

Qty	1+	2+	5+
Disc.	List	-5%	On request

Part number	Material	Quantity per box	Stock*	Price each
BOX-KK	steel	281 pieces	✔	185,73 €
BOX-KK/SS	stainless steel	79 pieces	✔	268,29 €

*Depending on availability - Dimensions in mm

Boxed set of round (Woodruff) keys NFE22179

Steel keys

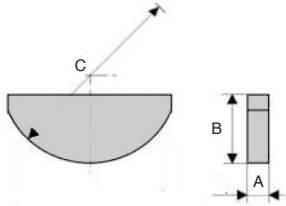
BOXKU

- ***Half round keys conforming to NFE22179 (DIN6888)***

Applications

- *Ideal for maintenance or workshop applications*





Box contents

Quantity	A(h9)	B(h11)	C(h11)
50	3	3,7	10
50	4	5,0	13
25	5	6,5	16
25	5	7,5	19
25	6	9,0	22
25	6	10,0	25
15	8	11,0	28
10	8	13,0	32
2	8	15,0	38
2	10	16,0	45
1	12	19,0	65
1	12	24,0	80

DISCOUNTS

Qty	1+	2+	5+
Disc.	List	-5%	On request

Part number	Quantity per box	Stock*	Price each
BOX-KU	231 pieces	-	309,94 €

**Depending on availability - Dimensions in mm*

Box of assorted spring pins

BOX-BETA

Steel pins

- **Chromed steel spring pins**

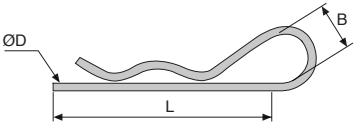
Applications

- Ideal for your maintenance service or workshop

Accessories

- Hitch pin **BETA** **(tome 1 p.496)**





Box contents

Quantity	ØD	L
50	2	47
40	2,5	64
30	3	68
8	4	86
5	5	97
5	6	108

DISCOUNTS

Qty	1+	2+	5+
Disc.	List	-5%	On request

Part number	Quantity per box	Stock*	Price each
BOX-BETA	138 pieces	✔	117,28 €

**Depending on availability - Dimensions in mm*

Boxed set of spring pins ISO 8752

Steel pins

BOXSAP

- ***Steel spring pins conforming to ISO 8752***

Applications

- *Ideal for maintenance or workshop applications*

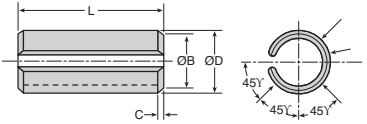
Accessories

- *Slotted spring pin* **SRP**
  (tome 1 11 p.502)



Box contents

Quantity	ØD	L
50	2	20
50	3	30
50	3	40
50	4	30
50	4	40
50	4	54
30	5	40
30	5	50
20	5	60
20	6	40
20	6	5
20	6	60
10	8	30
10	8	40
10	8	50
10	8	60
10	8	80
5	10	40
5	10	80



DISCOUNTS

Qty	1+	2+	5+
Disc.	List	-5%	On request

Part number	Quantity per box	Stock*	Price each
BOX-SAP	500 pieces	✔	140,48 €

**Depending on availability - Dimensions in mm*

Boxed set of cylindrical dowel pins DIN6325

BOXDH — Steel dowel pins

- *Steel pins conforming to DIN6325*

Applications

- *Ideal for maintenance or workshop applications*

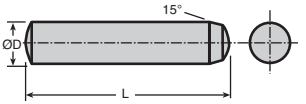
Accessories

- *Dowel pin* **DH** **(tome 1 p.504)**



Box contents

Quantity	ØD	L
100	2	10
50	2	32
100	3	10
50	3	20
100	4	10
30	4	24
50	5	12
40	5	24
30	5	36
50	6	10
40	6	16
30	6	20
25	6	30
20	6	40
30	8	20
20	8	40
20	10	24
10	10	40
10	12	40



DISCOUNTS

Qty	1+	2+	5+
Disc.	List	-5%	On request

Part number	Quantity per box	Stock*	Price each
BOX-DH	805 pieces	✔	397,59 €

**Depending on availability - Dimensions in mm*

Boxed set of extractable dowel pins DIN7979D

Steel pins

BOXDHX

- ***Threaded dowel pins conforming to DIN7979D***

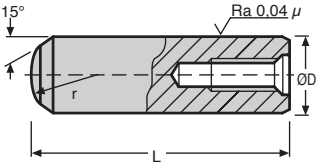
Applications

- *Ideal for maintenance or workshop applications*

Accessories

- *Extractable dowel pin* **DHX** ***(tome 1 p.508)***





Box contents

Quantity	ØD	L
30	5	20
20	6	24
20	6	30
20	8	24
20	8	30
20	8	40
20	10	30
15	12	40
10	16	60

DISCOUNTS

Qty	1+	2+	5+
Disc.	List	-5%	On request

Part number	Quantity per box	Stock*	Price each
BOX-DHX	175 pieces	-	187,78 €

**Depending on availability - Dimensions in mm*

Box set of Nitrile O-rings

Stock*

BOX-TOR-A Diameters from 2.9x1.78mm to 28.17x3.53mm

- ***Assortment conforming to AS/BS standard***
- ***30 different sizes***
- *Material:*
  Nitrile NBR 70 Shore A
- *Working temperature: -30 to +110°C*

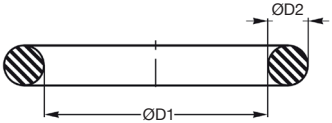


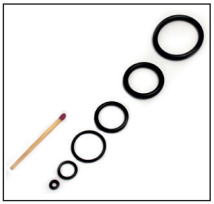
Uses

Suitable for:
- *Hydraulic oils*
- *HFA fluids*
- *HFB fluids*
- *HFC fluids*
- *Air*

Info

- *Ideal for the maintenance department*





Box contents

Quantity	ØD1	ØD2
20	2,90	1,78
20	3,68	1,78
20	4,48	1,78
20	5,28	1,78
20	6,07	1,78
20	7,66	1,78
20	9,25	1,78
15	10,82	1,78
15	12,42	1,78
10	14,00	1,78

Quantity	ØD1	ØD2
10	15,60	1,78
5	17,16	1,78
5	18,77	1,78
15	9,19	2,62
15	10,78	2,62
15	12,37	2,62
15	13,95	2,62
10	15,54	2,62
10	17,13	2,62
10	18,72	2,62

Quantity	ØD1	ØD2
5	20,29	2,62
5	21,89	2,62
5	23,47	2,62
5	18,64	3,53
5	20,22	3,53
5	21,82	3,53
5	23,40	3,53
5	24,99	3,53
5	26,58	3,53
5	28,17	3,53

DISCOUNTS

Qty	1+	3+	5+
Disc.	Net	-5%	On request

Part number	Material	Quantity per box	Stock*	Price each 1 to 2
BOX-TOR-A	NBR 70 Sh A	340 O-rings	✔	68,96 €

**Depending on availability - Dimensions in mm*

Box set of Nitrile O-rings

Diameters 20.38x1.78mm to 50.16x5.34mm BOX-TOR-B

- **Assortment conforming to AS/BS standard**
- **24 different sizes**
- Material:
  Nitrile NBR 70 Shore A
- Working temperature: -30 to +110°C

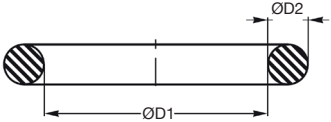


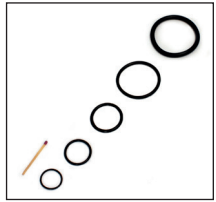
Uses

Suitable for:
- Hydraulic oils
- HFA fluids
- HFB fluids
- HFC fluids
- Air

Info

- Ideal for the maintenance department





Box contents

Quantity	ØD1	ØD2
15	20,35	1,78
15	21,95	1,78
15	25,07	2,62
15	26,64	2,62
15	28,25	2,62
15	29,82	2,62
10	31,42	2,62
10	33,00	2,62
10	34,59	2,62
15	29,75	3,53
15	31,34	3,53
15	32,92	3,53

Quantity	ØD1	ØD2
10	34,52	3,53
10	36,10	3,53
10	37,69	3,53
10	40,87	3,53
10	44,04	3,53
10	47,22	5,53
10	50,40	3,53
10	37,47	5,34
10	40,65	5,34
10	43,82	5,34
5	47,00	5,34
5	50,16	5,34

DISCOUNTS

Qty	1+	3+	5+
Disc.	Net	-5%	On request

Part number	Material	Quantity per box	Stock*	Price each 1 to 2
BOX-TOR-B	NBR 70 Sh A	275 O-rings	-	109,81 €

*Depending on availability - Dimensions in mm

Box set of Nitrile O-rings

BOX-TOR-C Diameters 3.00x1.50mm to 30.20x3.00mm

- **Box set of Nitrile O-rings**
- **30 different sizes**
- Material:
  Nitrile NBR 70 Shore A
- Working temperature: -30 to +110°C

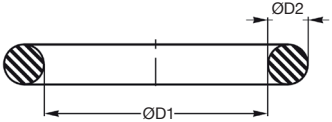


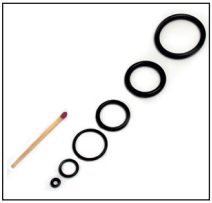
Uses

Suitable for:
- Hydraulic oils
- HFA fluids
- HFB fluids
- HFC fluids
- Air

Info

- Ideal for the maintenance department





Box contents

Quantity	ØD1	ØD2
20	3,00	1,50
20	5,00	1,50
20	7,00	1,50
20	9,00	1,50
20	11,00	1,50
20	6,00	2,00
20	8,00	2,00
20	10,00	2,00
20	12,00	2,00
20	14,00	2,00

Quantity	ØD1	ØD2
15	6,30	2,40
15	8,30	2,40
15	11,30	2,40
15	13,30	2,40
15	17,30	2,40
15	5,00	2,50
15	7,00	2,50
15	10,00	2,50
15	12,00	2,50
15	15,00	2,50

Quantity	ØD1	ØD2
10	10,00	3,00
10	12,00	3,00
10	14,00	3,00
10	16,00	3,00
10	18,00	3,00
5	20,20	3,00
5	22,20	3,00
5	24,20	3,00
5	26,20	3,00
5	30,20	3,00

DISCOUNTS

Qty	1+	3+	5+
Disc.	Net	-5%	On request

Part number	Material	Quantity per box	Stock*	Price each 1 to 2
BOX-TOR-C	NBR 70 Sh A	425 O-rings	✔	64,38 €

*Depending on availability - Dimensions in mm

Box set of Nitrile O-rings

Diameters18.00x2.00mm to 50.00x5.00mm BOX-TOR-D

- **Assortment conforming to AS/BS standard**
- **24 different sizes**
- Material:
  Nitrile NBR 70 Shore A
- Working temperature: -30 to +110°C

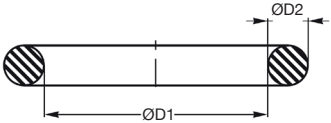


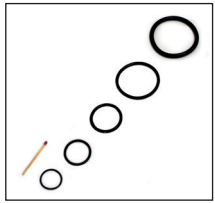
Uses

Suitable for:
- Hydraulic oils
- HFA fluids
- HFB fluids
- HFC fluids
- Air

Info

- Ideal for the maintenance department





Box contents

Quantity	ØD1	ØD2
15	18,00	2,00
15	20,00	2,00
15	22,00	2,00
15	25,00	2,00
15	28,20	3,00
15	30,20	3,00
10	32,20	3,00
10	26,20	3,00
15	25,00	4,00
15	30,00	4,00
15	32,00	4,00
15	34,00	4,00

Quantity	ØD1	ØD2
15	36,00	4,00
10	38,00	4,00
10	10,00	4,00
10	44,00	4,00
10	48,00	4,00
10	50,00	4,00
10	25,00	5,00
10	30,00	5,00
10	35,00	5,00
10	40,00	5,00
5	45,00	5,00
5	50,00	5,00

DISCOUNTS

Qty	1+	3+	5+
Disc.	Net	-5%	On request

Part number	Material	Quantity per box	Price each 1 to 2
BOX-TOR-D	NBR 70 Sh A	285 O-rings	111,67 €

Dimensions in mm

Box set of Nitrile O-rings

BOX-TOR-G Diameters 3.00x1.50mm to 30.20x3.00mm

- **Box set of Nitrile O-rings**
- **30 different sizes**
- Material:
  Nitrile NBR 70 Shore A
- Working temperature: -30 to +110°C



Uses

Suitable for:
- Hydraulic oils
- HFA fluids
- HFB fluids
- HFC fluids
- Air

Info

- Ideal for the maintenance department



Box contents

Quantity	ØD1	ØD2
20	2,90	1,78
20	3,68	1,78
20	4,48	1,78
20	5,28	1,78
20	6,07	1,78
20	7,66	1,78
20	9,25	1,78
13	9,19	2,62
13	10,78	2,62
13	12,37	2,62

Quantity	ØD1	ØD2
13	13,95	2,62
13	15,54	2,62
13	17,13	2,62
13	18,72	2,62
13	18,64	3,53
10	20,22	3,53
10	21,82	3,53
10	23,40	3,53
10	24,99	3,53
10	26,58	3,53

Quantity	ØD1	ØD2
10	28,17	3,53
10	29,75	3,53
10	31,34	3,53
10	32,92	3,53
10	34,52	3,53
10	36,10	3,53
10	37,69	3,53
7	37,47	5,34
7	40,65	5,34
7	43,82	5,34

DISCOUNTS

Qty	1+	3+	5+
Disc.	Net	-5%	On request

Part number	Material	Quantity per box	Stock*	Price each 1 to 2
BOX-TOR-G	NBR 70 Sh A	382 O-rings	✔	38,32 €

**Depending on availability - Dimensions in mm*

Box set of Nitrile O-rings

Diameters 3.00x2.00mm to 45.20x4.00mm BOX-TOR-H

- **Box set of Nitrile O-rings**
- **30 different sizes**
- Material:
  Nitrile NBR 70 Shore A
- Working temperature: -30 to +110°C

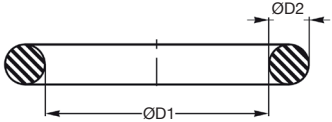


Uses

Suitable for:
- Hydraulic oils
- HFA fluids
- HFB fluids
- HFC fluids
- Air

Info

- Ideal for the maintenance department



Box contents

Quantity	ØD1	ØD2
18	3,00	2,00
18	4,00	2,00
18	5,00	2,00
18	6,00	2,00
17	7,00	2,00
17	8,00	2,00
17	10,00	2,00
14	10,00	2,50
14	11,00	2,50
14	12,00	2,50

Quantity	ØD1	ØD2
14	14,00	2,50
14	16,00	2,50
14	17,00	2,50
14	19,00	2,50
12	19,00	3,00
12	20,00	3,00
12	22,00	3,00
12	24,00	3,00
12	25,00	3,00
12	27,00	3,00

Quantity	ØD1	ØD2
12	28,00	3,00
12	30,00	3,00
12	32,00	3,00
12	33,00	3,00
12	35,00	3,00
12	36,00	3,00
12	38,00	3,00
9	38,00	4,00
9	42,00	4,00
9	45,00	4,00

DISCOUNTS

Qty	1+	3+	5+
Disc.	Net	-5%	On request

Part number	Material	Quantity per box	Stock*	Price each 1 to 2
BOX-TOR-H	NBR 70 Sh A	404 O-rings	✔	54,41 €

*Depending on availability - Dimensions in mm

Nitrile O-ring kit

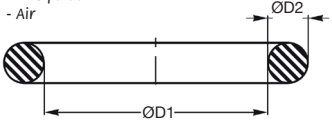
BOX-TOR-MAX Sizes from 2.9x1.78mm to 82.14x3.53mm

- ***5 different boxes containing AS/BS standards in***
- ***78 sizes***
- *Material:*
  Nitrile NBR 90 shore A
- *Working temperature range: -30° to +110°C*



Applications

Suitable for:
- *Hydraulic fluids*
- *HFA fluids*
- *HFB fluids*
- *HFC fluids*
- *Air*



Kit contents:

Box 1:30 O-rings in 5 sizes

Quantity	ØD1	ØD2
8	24,99	3,53
8	32,92	3,53
6	37,69	3,53
4	47,22	3,53
4	56,74	3,53

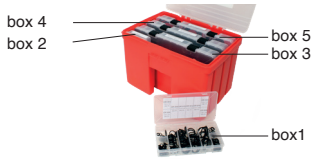
Box 2:127 O-rings for BOSS fittings in 6 sizes

Quantité	ØD1	ØD2
25	8,92	1,83
25	11,89	1,98
25	16,36	2,21
25	19,18	2,46
16	23,47	2,95
11	29,74	2,95

Box 3:485 1.78mm O-rings in 24 sizes

Quantity	ØD1	ØD2	Quantity	ØD1	ØD2
25	2,90	1,78	25	18,77	1,78
25	3,68	1,78	20	20,35	1,78
25	4,47	1,78	20	21,95	1,78
25	5,28	1,78	20	23,52	1,78
25	6,07	1,78	15	25,12	1,78
25	7,65	1,78	15	26,70	1,78
25	9,25	1,78	15	28,30	1,78
25	10,82	1,78	15	29,87	1,78
25	12,42	1,78	15	31,47	1,78
25	14,00	1,78	15	34,65	1,78
25	15,60	1,78	10	37,82	1,78
25	17,17	1,78	10	41,00	1,78

Dimensions in mm



Box 4:440 2.62mm
O-rings in 24 sizes

Quantité	ØD1	ØD2	Quantité	ØD1	ØD2
25	7,59	2,62	15	26,64	2,62
25	9,19	2,62	15	28,24	2,62
25	10,77	2,62	15	29,82	2,62
25	12,37	2,62	15	31,42	2,62
25	13,94	2,62	15	32,99	2,62
25	15,54	2,62	15	34,59	2,62
25	17,12	2,62	15	36,17	2,62
25	18,72	2,62	10	37,77	2,62
25	20,30	2,62	10	39,34	2,62
25	21,89	2,62	10	42,52	2,62
20	23,47	2,62	10	45,69	2,62
20	25,07	2,62	5	48,90	2,62

Box 5:285 3.53mm
O-rings in 19 sizes

Quantité	ØD1	ØD2	Quantité	ØD1	ØD2
20	18,64	3,53	14	34,52	3,53
20	20,22	3,53	14	36,09	3,53
20	21,82	3,53	13	37,69	3,53
20	23,39	3,53	12	40,87	3,53
20	24,99	3,53	12	44,04	3,53
16	26,57	3,53	10	50,39	3,53
16	28,17	3,53	10	56,74	3,53
16	29,74	3,53	10	69,44	3,53
16	31,34	3,53	10	82,14	3,53
16	32,92	3,53			

DISCOUNTS

Qty	1+	3+	5+
Disc.	Net	-5%	On request

Part number	Material	Qty per box	Stock*	Price 1 to 2
BOX-TOR-MAX	NBR 90 Sh A	1415 pièces	-	231,53 €

**Depending on availability - Dimensions in mm*

O-Ring kit, NBR 90 Shore A

Stock

BOX-TOR-ORFS Sizes from 7.65x 1.78mm to 37.82x1.78mm

- **Selection of O-Rings for ORF fittings**
- **8 sizes**
- Material:
  Nitrile NBR 90 shore A
- Working temperature range: -30° to +110°C

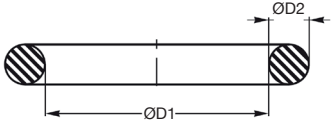


Applications

Suitable for:
- Hydraulic fluids
- HFA fluids
- HFB fluids
- HFC fluids
- Air

Info

- Ideal for use in the maintenance dept.



Box contents

Quantity	ØD1	ØD2
25	7,65	1,78
25	9,25	1,78
25	12,42	1,78
25	15,60	1,78
20	18,77	1,78
15	23,52	1,78
10	29,87	1,78
10	37,82	1,78

DISCOUNTS

Qty	1+	3+	5+
Disc.	Net	-5%	On request

Part number	Material	Qty per box	Stock*	Price each 1 to 2
BOX-TOR-ORFS	NBR 90 Sh A	155 pieces	✔	69,66 €

*Depending on availability - Dimensions in mm

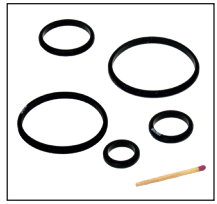
D-Ring Kit, NBR 90 Shore A

Flange seals

BOX-TOR-DRING

- ***Selection of D-Ring flange seals***
- ***9 sizes***
- *Material:*
  Nitrile NBR 90 shore A
- *Working temperature range: -30° to +110°C*





Applications

Suitable for:
- *Hydraulic fluids*
- *HFA fluids*
- *HFB fluids*
- *HFC fluids*

Advantages

- *Good extrusion resistance*
- *Long service life*
- *Easy to assemble as the seal will adhere to the flange*
- *Good resistance to vibration and low temperatures*

Info

- *Ideal for use in the maintenance dept*

Box contents

Quantity	ØA	B	H
10	18,90	3,40	4,95
10	25,25	3,40	4,95
10	31,60	3,40	4,95
10	37,95	3,40	4,95
10	44,37	3,40	4,95
10	50,72	3,40	4,95
10	54,20	3,40	4,95
5	57,07	3,40	4,95
5	63,42	3,40	4,95



DISCOUNTS

Qty	1+	3+	5+
Disc.	Net	-5%	On request

Part number	Material	Qty per box	Price each 1 to 2
BOX-TOR-DRING	NBR 90 Sh A	80 pieces	248,54 €

Dimensions in mm

Imperial joint kit, NBR 90 Shore A

BOX-TOR-INCH

For fasteners and fittings

- **Selection of BS imperial sizes**
- **7 sizes**
- Material:
  Nitrile NBR 90 shore A/ST
- Working temperature range: -30° to +110°C



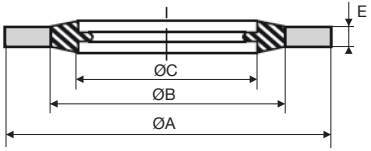
Applications

Suitable for:
- Hydraulic fluids
- HFA fluids
- HFB fluids
- HFC fluids
- Air



Info

- Ideal for use in the maintenance dept



Box contents

Quantity	For thread	A ±0,13	B +/-0,13	C +/-0,13	E +/-0,15
25	1/8"BSP	15,88	11,84	10,37	2,0
25	1/4"BSP	20,57	15,21	13,74	2,0
15	3/8"BSP	23,80	18,75	17,28	2,0
15	1/2"BSP	28,58	23,01	21,54	2,5
15	5/8"BSP	31,75	24,9	23,49	2,5
15	3/4"BSP	34,93	28,53	27,05	2,5
4	1"BSP	42,80	36,88	33,89	3,2

DISCOUNTS

Qty	1+	3+	5+
Disc.	Net	-5%	On request

Part number	Material	Qty per box	Price each 1 to 2
BOX-TOR-INCH	NBR 90 Sh A	114 pieces	58,29 €

Dimensions in mm

Extraction tools

BOX-TOR-TOOL

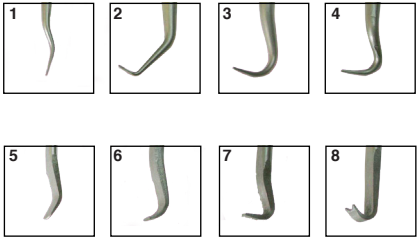
- **Kit containing 8 tools for extracting O-rings**

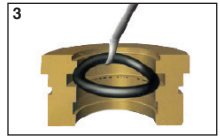
Info

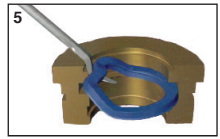
- *Ideal for the maintenance department*



Kit contents







DISCOUNTS

Qty	1+	3+	5+
Disc	Net	-5%	On request

Part number	Qty per box	Stock*	Price each 1 to 2
BOX-TOR-TOOL	8 tools	✔	71,31 €

**Depending on availability - Dimensions in mm*

Box set of hose clamps

Stock*

BOX-CS

Steel

- **Boxes containing solid 9 and 12mm wide hose clamps**
- Ideal for the maintenance department

Info.

- Also contains a flexible screwdriver





***Small version* BOX-CS-100**

Quantity	Range of adjustment ØD	Collar width
15	8-12	9
20	10-16	9
20	12-22	9
15	16-27	9
15	20-32	9
15	25-40	9

***Large version* BOX-CS-220**

Quantity	Range of adjustment ØD	Collar width
20	8-12	9
25	10-16	9
30	12-22	9
25	16-27	9
25	20-32	9
25	25-40	9
20	16-27	12
20	20-32	12
20	32-50	12
10	40-60	12

DISCOUNTS

Qty	1+	2+	5+
Disc.	Prix	-5%	On request

Part number	Box dimensions	Quantity per box	Stock*	Price each
BOX-CS-100	255x315x65	100 clamps	✔	71,26 €
BOX-CS-220	460x360x85	220 clamps	-	151,08 €

**Depending on availability - Dimensions in mm*

Box set of hose clamps

Stainless steel

BOX-CS/SS

- **Boxes containing solid 9 and 12mm wide hose clamps**
- *Ideal for the maintenance department*

Info.

- *Also contains a flexible screwdriver*



stainless steel



Small version BOX-CS-100/SS

Quantity	Range of adjustement ØD	Collar width
15	8-12	9
20	10-16	9
20	12-22	9
15	16-27	9
15	20-32	9
15	25-40	9

Large version BOX-CS-220/SS

Quantity	Range of adjustment ØD	Collar width
20	8-12	9
25	10-16	9
30	12-22	9
25	16-27	9
25	20-32	9
25	25-40	9
20	16-27	12
20	20-32	12
20	32-50	12
10	40-60	12

DISCOUNTS

Qty	1+	2+	5+
Disc.	Prix	-5%	On request

Part number	Box dimensions	Quantity per box	Stock*	Prix Uni.
BOX-CS-100/SS	255x315x65	100 clamps	✔	111,68 €
BOX-CS-220/SS	460x360x85	220 clamps	-	262,41 €

**Depending on availability - Dimensions in mm*

Boxed set of wide threaded self tapping inserts

BOX-INS-W

For wood

- ***Selection of self tapping inserts with a large external thread for use in wood***
- *Assembles by deformation, no special tools required*
- *With hexagonal socket for assembly*
- *Material:*
  White galvanized steel

Applications

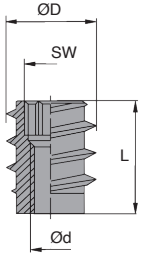
- *Can be used in soft plastics or woods and rubber*





010 440 002 006

Quantity	Type	ØD	L	Ød	SW
50	010	10	12	M5	5
50	010	12	15	M6	6
30	010	14	15	M8	8
50	440	10	12	M5	5
50	440	12	12	M6	6
30	440	14	15	M8	8
50	002	10	10	M5	-
50	002	12	15	M6	-
30	002	14	14	M8	-
30	006	8	12	M5	-
30	006	15	15	M6	-
30	006	12	15	M8	-



DISCOUNTS

Qty	1+	2+	5+
Disc.	List	-5%	On request

Part number	Quantity per box	Stock*	Price each
BOX-INS-W	480 pieces	✔	410,02 €

**Depending on availability - Dimensions in mm*

Boxed set of self tapping inserts

For hard materials

BOXINS300

- ***Selection of self tapping inserts with fine external thread***

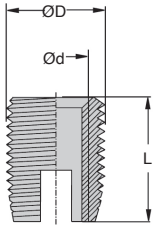
Assembly

- Refer to **INS300**

Applications

- For use in aluminium or other non-ferrous metals, thermosetting plastics or hard woods





Quantity	ØD	L	Ød
30	M5x0,5	6	M3
50	M6,5x0,75	8	M4
20	M8x1	8	M5
40	M8x1	10	M5
20	M9x1	8	M6
20	M9x1	12	M6
40	M10x1,5	14	M6
20	M12x1,5	12	M8
30	M12x1,5	15	M8
20	M14x1,5	18	M10
5	M16x1,5	22	M12
2	M20x1,5	25	M10

DISCOUNTS

Qty	1+	2+	5+
Disc.	List	-5%	On request

Part number	Material	Quantity per box	Stock*	Price each
BOX-INS300	Yellow zinc plated hardened steel	297 pieces	✔	496,99 €

**Depending of availability - Dimensions in mm*

Box set of hexagonal nuts DIN934

Stock

BOX-SHNA

Steel

- **Boxes of standard DIN934 nuts DIN934**
- *Chromed steel*

Application

- *Ideal for the maintenance department*

Accessories

- *Hexagonal nut* **SHNA** **(tome 1 p.569)**





- **Box details**

Quantity	Thread ØM	Thread
Standard thread		
100	M3	0,50
100	M4	0,70
100	M5	0,80
100	M6	1,00
100	M8	1,25
50	M10	1,50
50	M12	1,75
25	M14	2,00
20	M16	2,00
10	M18	2,50
10	M20	2,50
5	M24	3,00

DISCOUNTS

Qty	1+	2+	5+
Disc.	Prix	-5%	On request

Part number	Quantity per box	Stock*	Price each
BOX-SHNA	670 washers	✔	105,82 €

**Depending on availability - Dimensions in mm*

Stock Box sets of self-locking nuts DIN985

Steel

BOX-NINA

- Boxes of standard DIN985 self-locking nuts

Application

- Ideal for the maintenance department or for use in workshops

Accessories

- Self-locking nut **NINA** **(tome 1 p.571)**





- Box details

Quantity	Thread ØM	Thread
Standard thread		
100	M4	0,70
100	M5	0,80
100	M6	1,00
50	M8	1,25
50	M10	1,50
25	M12	1,75
10	M14	2,00
10	M16	2,00
Fine thread		
50	M10	1,00
25	M12	1,50
20	M14	1,50
10	M16	1,50

DISCOUNTS

Qty	1+	2+	5+
Disc.	Prix	-5%	On request

Part number	Quantity per box	Stock*	Price each
BOX-NINA	550 washers	✔	152,65 €

**Depending on availability - Dimensions in mm*

Box set of standard washers DIN125

Stock

BOX-WM

Steel

- **Boxes of standard DIN125 washers**
- Zinc-plated steel washers

Application

- Ideal for the maintenance department

Accessories

- Plain washer **WM** **(tome 1 p.574)**







- **Box details**

Quantity	For screw ØM
100	M3
100	M4
100	M5
100	M6
100	M8
100	M10
50	M12
50	M14
50	M16
25	M18
25	M20
10	M24

DISCOUNTS

Qty	1+	2+	5+
Disc.	Prix	-5%	On request

Part number	Quantity per box	Stock*	Price each
BOX-WM	810 washers	✔	93,39 €

**Depending on availability - Dimensions in mm*

Technical information

THREAD ISO (ANGLE 60°)

Thread	Pitch (mm)	Ø Outside (mm)	Ø Hole (mm)
M2	0,40	2,00	1,60
M2,5	0,45	2,50	2,05
M3	0,50	3,00	2,50
M4	0,70	4,00	3,30
M5	0,80	5,00	4,20
M6	1,00	6,00	5,00
M7	1,00	7,00	6,00
M8	1,25	8,00	6,80
M10	1,50	10,00	8,50
M12	1,75	12,00	10,20
M14	2,00	14,00	12,00
M16	2,00	16,00	14,00
M18	2,50	18,00	15,50
M20	2,50	20,00	17,50
M22	2,50	22,00	19,50
M24	3,00	24,00	21,00

THREAD BSP

Thread 55° (inc ✈)	Ø Hole before tapping (mm)	Pitch (mm)	Number of starts per inch (T.P.I)	Outside diameter (mm)
1/8 BSP	8,75	0,91	28	9,73
1/4 BSP	11,80	1,34	19	13,16
3/8 BSP	15,25	1,34	19	16,66
1/2 BSP	19,05	1,81	14	20,96
5/8 BSP	21,03	1,81	14	22,91
3/4 BSP	24,50	1,81	14	26,44
7/8 BSP	28,25	1,81	14	30,20
1 BSP	30,75	2,31	11	33,25
1 1/4 BSP	39,50	2,31	11	41,91
1 1/2 BSP	45,24	2,31	11	47,80
1 3/4 BSP	51,00	2,31	11	53,75
2 BSP	57,00	2,31	11	59,61

Technical information

Thread BSF

Thread 55° (inc ⅋)	Ø Hole before tapping (mm)	Pitch (mm)	Number of starts per inch (T.P.I)	Outside diameter (mm)
3/16 BSF	3,97	0,79	32	4,76
1/4 BSF	5,30	0,98	26	6,35
5/16 BSF	6,75	1,15	22	7,94
3/8 BSF	8,25	1,27	20	9,53
7/16 BSF	9,70	1,41	18	11,11
1/2 BSF	11,11	1,59	16	12,70
9/16 BSF	12,70	1,59	16	14,29
5/8 BSF	14,00	1,84	14	15,88
3/4 BSF	16,75	2,12	12	19,05
7/8 BSF	19,84	2,31	11	22,23
1 BSF	22,75	2,54	10	25,40

Thread BSW

1/8 BSW	2,55	0,64	40	3,18
3/16 BSW	3,70	1,06	24	4,76
1/4 BSW	5,10	1,27	20	6,35
5/16 BSW	6,50	1,41	18	7,94
3/8 BSW	7,94	1,59	16	9,53
7/16 BSW	9,36	1,81	14	11,11
1/2 BSW	10,50	2,12	12	12,70
9/16 BSW	12,10	2,12	12	14,29
5/8 BSW	13,50	2,31	11	15,88
3/4 BSW	16,27	2,54	10	19,05
7/8 BSW	19,25	2,82	9	22,23
1 BSW	22,00	3,18	8	25,40

Thread BA

0-BA	5,10	1,00	25,38	6,00
1-BA	4,50	0,90	28,25	5,30
2-BA	4,00	0,81	31,35	4,70
3-BA	3,45	0,73	34,84	4,10
4-BA	3,00	0,66	38,46	3,60
5-BA	2,65	0,59	43,10	3,20
6-BA	2,30	0,53	47,85	2,80
7-BA	2,05	0,48	52,91	2,50
8-BA	1,80	0,43	59,71	2,20

Technical information

Thread UNF

Thread 60° (inc ✈)	Ø Hole before tapping (mm)	Pitch (mm)	Number of starts per inch (T.P.I)	Outside diameter (mm)
2-64 UNF	1,90	0,40	64	2,18
3-56 UNF	2,15	0,45	56	2,51
4-48 UNF	2,40	0,53	48	2,84
6-40 UNF	2,95	0,64	40	3,51
8-36 UNF	3,55	0,71	36	4,17
10-32 UNF	4,10	0,79	32	4,83
12-28 UNF	4,65	0,91	28	5,49
1/4-28 UNF	5,50	0,91	28	6,35
5/16-24 UNF	6,90	1,06	24	7,94
3/8-24 UNF	8,50	1,06	24	9,53
7/16-20 UNF	9,90	1,27	20	11,11
1/2-20 UNF	11,40	1,27	20	12,70
9/16-18 UNF	12,90	1,41	18	14,29
5/8-18 UNF	14,50	1,41	18	15,88
3/4-16 UNF	17,46	1,59	16	19,05
7/8-14 UNF	20,42	1,81	14	22,23
1-12 UNF	23,25	2,12	12	25,40

Thread UNC

Thread 60° (inc ✈)	Ø Hole before tapping (mm)	Pitch (mm)	Number of starts per inch (T.P.I)	Outside diameter (mm)
2-56 UNC	1,85	0,45	56	2,18
3-48 UNC	2,10	0,53	48	2,51
4-40 UNC	2,35	0,64	40	2,84
6-32 UNC	2,84	0,79	32	3,51
8-32 UNC	3,50	0,79	32	4,17
10-24 UNC	3,90	1,06	24	4,83
12-24 UNC	4,55	1,06	24	5,49
1/4-20 UNC	5,30	1,27	20	6,35
5/16-18 UNC	6,60	1,41	18	7,94
3/8-16 UNC	8,00	1,59	16	9,53
7/16-14 UNC	9,40	1,81	14	11,11
1/2-13 UNC	10,80	1,95	13	12,70
9/16-12 UNC	12,25	2,12	12	14,29
5/8-11 UNC	13,50	2,31	11	15,88
3/4-10 UNC	16,50	2,54	10	19,05
7/8-9 UNC	19,45	2,82	9	22,23
1-8 UNC	22,25	3,18	8	25,40

Stainless steels

General remarks about austentic stainless steel

The basic structure of AUSTENITIC STAINLESS STEEL is the well-known alloy of 18% CHROME and 8% NICKEL. The CHROME and NICKEL content can be increased to improve corrosion resistance. In order to do this, supplementary elements such as Molybdenum can also be added.

AUSTENITIC STEELS are non-magnetic and cannot be heat-treated and tempered. Cold formation and deformation are the only ways to harden this type of steel, so long as they are carried out quickly. The steel can later be converted back to its initial state if is is reheated. This solution is sometimes used as a replacement for heat treatment.

Type Z8CNF18.09

(Stainless steel 303)

- Colour code: white
- Austenitic steel: non-magnetic
- SULPHUR content: facilitated machining
- Good corrosion resistance
- Weldability: acceptable (but in general oxyacetylinic welds are not recommended)
- Cold forming is possible but bends with sharp angles should be avoided.
- **Applications:** series machining, automatons...

Type Z4CN19.10FF

(Stainless steel 304)

- Colour code: yellow
- Austenitic steel: non-magnetic
- Type of stainless steel most often used
- Machining quality: acceptable
- Good corrosion resistance
- Good weldability (but in general oxyacetylinic welds are not recommended)
- Cold forming gives very good results (slightly magnetic when cold-formed)
- **Applications:** hospitals, laundries, in general all mechanical applications.

Type Z3CND18.14.08

(Stainless steel 316L)

- Colour code: red
- Austenitic steel: non-magnetic
- High corrosion resistance, especially against salt water and acids.
- Machining quality: acceptable
- Good weldability
- Cold forming gives very good results (non-magnetic when reheated, slightly magnetic when cold-formed)
- **Applications:** petrochemical industry, marine environments, hospitals, restaurants.

Type Z6DNT18.10

(Stainless steel 321)

- Colour code: blue
- Austenitic steel: non-magnetic
- Machining quality: acceptable
- Good corrosion and oxidation resistance
- Very good weldability
- Cold forming gives very good results (non-magnetic when reheated, slightly magnetic when cold-formed)
- **Applications:** petrochemical industry, in general all mechanical applications...

Corrosion resistance of stainless steel

Martensitic steel

- These steels, which generally contain 13% Chrome, are the least corrosion-resistant stainless steels. They should therefore be used when corrosion conditions are relatively weak. The most obvious example is cutlery.

Austenitic steel

- This type of stainless steel is by far the most widely-used. It resists corrosion in numerous environments and is principally used in food preparation areas, dairies, breweries, and other transformation industries, as well as in several types of chemical industry.

Ferritic steel

- The most-used ferritic steel is Z8C17 (stainless steel 430) which contains 17% Chromium. They therefore allow a greater corrosion resistance than martensitic steels, without being as efficient as standard austensitic steels. They are generally used for engine and appliance decoration.

Molybdenum

- Molybdenum, when added to austenitic steels, greatly improves their corrosion resistance. Type 316 stainless steels contain therefore between 2 and 3% Molybdenum. They are principally used in chemical and petrochemical industries where resistance to chlorine, for example, is necessary. Nevertheless, it is important to mention that these steels are not resistant to all types of chemical attacks (such as hydrochloric or oxalic acid, expecially when they are hot and/or very concentrated).

Mechanical properties, softening temperatures and intergranular corosion tests

Type of steel	Test load $R_p0,2$ min N/mm²	Test load $R_p01,0$ min N/mm²	Tensile strength R_m.min N/mm²	Stretch test A.min	Hardness Hv. max †	Condition	Softening temperature scale min	Softening temperature scale max	Intergranular sensitivisation time test min
CN17.08	215	250	540	40%	220	Softened	1000°C	1120°C	Nil
Z1CN18.12	180	215	480	40%	135	Softened	1000°C	1120°C	30
Z4CN19.10ff	195	230	500	40%	190	Softened	1000°C	1120°C	15
Z5CN17.08	195	230	500	40%	190	Softened	1000°C	1120°C	15
Z7CN18.09	195	230	500	40%	190	Softened	1000°C	1120°C	Nil
Z5CN18.11ff	185	220	490	40%	185	Softened	1000°C	1120°C	Nil
Z2CND17.12	190	225	490	40%	195	Softened	1000°C	1120°C	30
Z2CND18.13	205	240	510	40%	205	Softened	1000°C	1120°C	15
Z6CND17.11.02	205	240	510	40%	205	Softened	1000°C	1120°C	15
Z2CND19.15.04	195	230	490	40%	195	Softened	1000°C	1120°C	30
Z6CNT18.10	200	235	500	40%	200	Softened	1000°C	1120°C	30
Z6CNNb18.10	205	240	510	40%	200	Softened	1000°C	1120°C	30

Mechanical properties and softening temperatures for ferritic and martensic steels

Type of steel	Test load $R_p0,2$ min N/mm²	Tensile strength R_m.min N/mm²	Strentching test A.min	Hardness HV max †	Condition	Softening mini.	Softening maxi.	Quenching‡ mini.	Quenching‡ maxi.	Hardening mini.	Hardening maxi.
Ferritic steels											
28C12	245	420	20%	190 175	Softened	1000°C	1120°C	Nil			
28CA12	245	420	20%	190 175	Softened	1000°C	1120°C	30			
28C17	245	430	20%	190 175	Softened	1000°C	1120°C	15			
Martensic steels											
210C13	-	-	-		Softened	700°C	780°C				
					Quenched			950°C	1020°C		
					Hardened					650°C	750°C
230C13	-			230 220	Softened	700°C	780°C				
					Quenched			950°C	1050°C		
					Hardened					150°C	250°C
	420			175	Softened	700°C	780°C	-	-	-	-

1 N/mm² = 1 mp_a •

•Stretching was measured with flat test-parts of gauge length 50mm or 5.65√so. for cylindrical test-parts a gauge length of 5.64√so was used

† For parts of sufficient thickness, the Brinell hardness test can be used, applying the same hardness limit values as those given for HV.

‡ Only as an indication.

Manufacturing guide

	301S1	302S25	304S16	304S12	305S19	303S21	303S41	309S24	310S24	316S16
Die-cutting	B	B	B	B	B	–	–	B	B	B
Brazing	B	B	B	B	B	B	D	B	B	B
Polishing	A	A-B	A-B	B	A-B	B	D	B	B	B
Coining	B-C	B	B	B	A-B	A	D	B	B	B
Drilling	C-D	C	C	C	C	B-C	B	C	C	C
Embossing	B-C	B	B	B	B	–	C	B	B	B
Cold-forging	C	B	B	B	B	B	D	B-C	B-C	B
Hot-forging	B	B	B	B	B	B	B	B	B	B
Heat-tempering										
a) Reheated 1000psi	115,00	90,00	85,00	82,00	80,00	–	–	90,00	95,00	90,00
kg/mm²	80,80	63,30	59,70	58,00	56,20	–	–	63,30	66,80	63,30
b) 25% Reduction 1000psi	169,00	142,00	138,00	140,00	130,00	–	–	130,00	126,00	134,00
kg/mm²	119,00	100,00	97,00	98,00	91,00	–	–	91,00	89,00	94,00
c) 50% Reduction 1000psi	220,00	180,00	178,00	182,00	170,00	–	–	169,00	165,00	165,00
kg/mm2	155,00	127,00	125,00	128,00	119,00	–	–	119,00	116,00	116,00
Thermal treatment tempering	No	No	No	No	No	No	No	No	No	No
Machining	C	C	C	C	C	B-C	B-C	C	C	C
Magnetic	No†	No†	No†	No†	No††	No††	No†	No†	No††	No†
Punching	C	B	B	B	B	–	–	B	B	B
Polissage	A	A	A	A	A	A	D	B	B	B
Lamination	B	A	A	A	A	–	–	B	A	A
Breakdown	C	C	C	C	C	C	B	C	C	C
Shearing	B	B	B	B	B	B	C	B	B	B
Welding	B	B	B	B	B	B	C-D	B	B	B
Spinning	D	B-C	B-C	B-C	A	–	–	B-C	B	B
Spot-welding (Resistance)	A	A	A	A	A	B	D	A	A	A
Coated metal arc-welding	B	A-B	A	A	A	B	D	B	B	A
Welding (oxyacetylene)	D	D	D	D	D	D	D	D	D	D
Arc-welding with metal	A-B	A-B	A	A	A	B-C	D	A	A	A
Arc-welding with tungsten	A	A	A	A	A	B	D	A	A	A

A = Excellent **B** = Good **C** = Acceptable **D** = Not recommended

† But becomes magnetic after cold-working
†† But becomes very slightly magnetic after cold working
* Avoid sharply-angled bends

Stainless steels

Characteristics

Type of steel		Description	Applications
304	Z4CN19.10FF	18% CHROME, 9% NICKEL Forming: good	Sinks architecture, car exhausts, cutlery, crockery, piping.
304L	Z1CN18.12 Z1CN18.09	LESS CARBON THAN STAINLESS STEEL 304	Breweries, dairies, food and pharmaceutical industries,crockery,sinks.
305	Z8CN18.12	18% CHROME, 12% NICKEL Forming: good	Same as stainless steel 310.
309	-	23% CHROME, 14% NICKEL High oxidation resistance	
310	-	25% CHROME, 20% NICKEL High oxidation resistance	Ovens, metallurgical factories,heat exchanges
316	Z3CND17.11.01	17% CHROME, 11% NICKEL 2.5% MOLYBDENE High corrosion resistance	Chemical and petrochemical factories, architecture, breweries
316L	Z2CND17.12	LESS CARBON than STAINLESS STEEL 316	
317	-	18% CHROME, 12% NICKEL 2.5% MOLYBDENE et TITANE High corrosion resistance	Chemical and petrochemical factories, acetic acid distilleries.
317L 317	Z2CND19.15.04	LESS CARBON than STAINLESS STEEL	
321	Z6CNT18.10	18% CHROME, 10% NICKEL and TITANIUM	Airplane parts, chemical and petrochemical industries, heating elements
325	-	CONTAINS SULPHUR: EASIER TO MACHINE THAN STAINLESS STEEL 321, ONLY AVAILABLE IN BARS.	
347	Z6CNNb 18.10	18% CHROME. 10% NICKEL and NIOBIUM Sensitivisation and nitric acid resistance.parts	Transformation factories, airplane

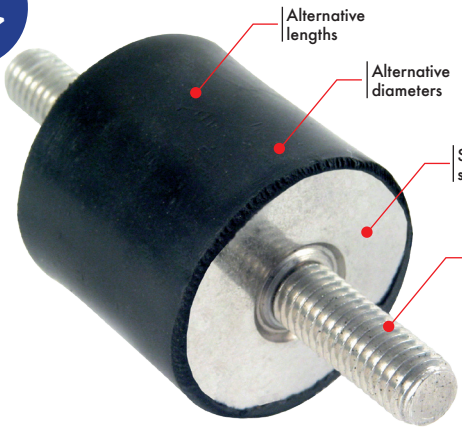
Characteristics

Type of steel		Description	Applications
MARTENSIC STEELS:		**MAGNETIC, TEMPERING POSSIBLE, MODERATE CORROSION RESISTANCE**	
410	Z10C13	12% CHROME	Pump and turbine parts, general mechanics, knife blades, valves.
416	Z11CF13	Contains sulphur: easier to machine than stainless steel 410	Construction, railway carriages mine-carts
420	Z20C13	Heat-resistant	
431	Z15CN16.02	17% CHROME, 2 1/2% NICKEL Only available in bars.	
FERRITIC STEELS:		**MAGNETIC, CHROME STEELS, CHLORIDES GIVE CORROSION RESISTANCE**	
430	Z8C17	17% CHROME	Sinks, decoration, car parts
434	-	17% CHROME, 1% MOLYBDENE Resistant to atmospheric corrosion and chipping.	Car exhaust systems
409	Z3CT12	12% CHROME et TITANE Weldable up to thicknesses of 2.5mm	Construction, railway carriages, mine-carts.
403	Z8C12	Modified stainless steel 409, weldable in reinforced section, forming possible.	
AUSTENITIC STEELS:		**NON-MAGNETIC, CHROME AND NICKEL STEELS, GOOD WELDABILITY, GOOD GENERAL CORROSION RESISTANCE**	
301	Z11CN17.08	17% CHROME, 7% NICKEL Forming possible	Construction, springs, friction and protection.
302	Z10CN18.09	18% CHROME, 9% NICKEL Forming: good	Same as stainless steel 304
303	Z8CNF18.09	Easier to machine than stainless steel 302, only available in bars.	

MADE TO MEASURE

ELASTIC SHOCK ABSORBERS

From 50+>



WIDE RANGE OF MODELS AVAILABLE



MADE TO MEASURE

BALL LOCK PINS

Min quantity

SELF LOCKING

Need IMPERIAL sizes or a different shape? Contact us...

Choices available:
- Operating length
- Diameter
- **Tolerances**

Choice of ball material:
- **Ceramic**
- Steel

Choice of pin material:
- Steel
- **Stainless steel**
- Titanium...

Shape of handle can be altered

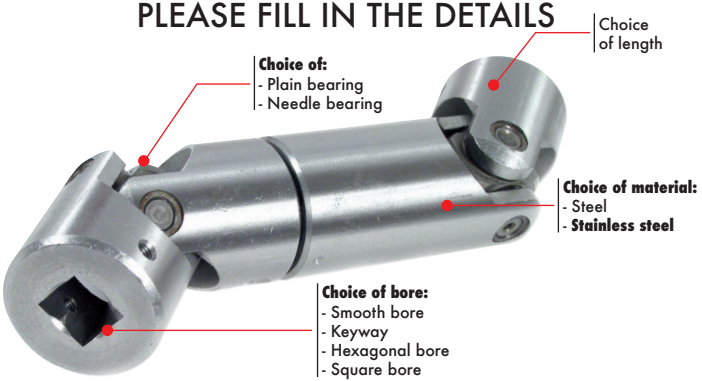


LIFTING PIN WITH RING

Double action to unlock version available

MODIFIED

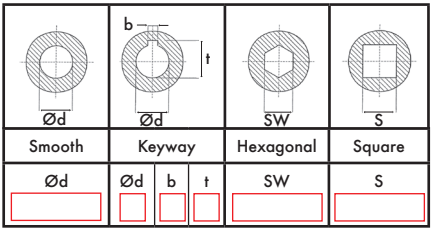
TELESCOPIC UNIVERSAL JOINTS
PLEASE FILL IN THE DETAILS



Based on universal-joint: _____

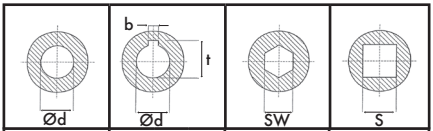
HPC Part Number

Bore A



Smooth	Keyway			Hexagonal	Square
Ød	Ød	b	t	SW	S

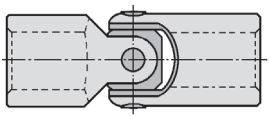
Bore B



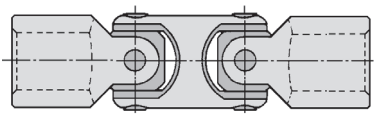
Smooth	Keyway			Hexagonal	Square
Ød	Ød	b	t	SW	S

MODIFIED

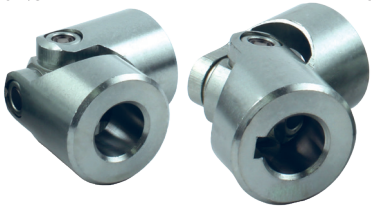
SINGLE OR DOUBLE UNIVERSAL JOINTS
PLEASE FILL IN THE DETAILS



SINGLE



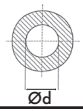
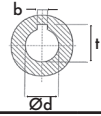
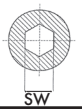
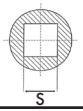
DOUBLE



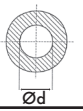
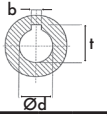
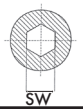
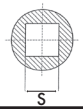
Based on universal-joint: _____

HPC Part Number

Bore A

 Ød	 Ød	 SW	 S
Smooth	keyway	Hexagonal	Square
Ød	Ød / b / t	SW	S

Bore B

 Ød	 Ød	 SW	 S
Smooth	Keyway	Hexagonal	Square
Ød	Ød / b / t	SW	S

COMPLEMENT to the range

STANDARD SCREWS AND FASTENERS

Min quantity*
*Pack

Hardened steel 39-44 HRc
class 12.9



Stainless steel 302/304 - A2



Stainless steel 303
416



Different material?
Special finish?
Contact us...

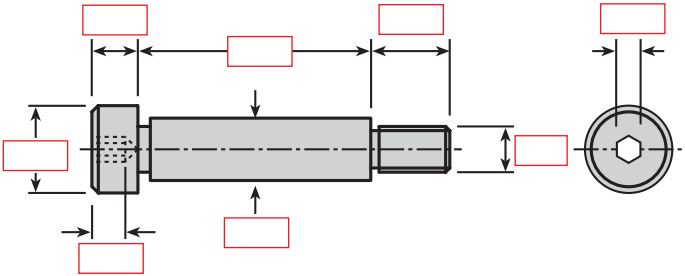
SPECIFY WHICH STANDARD	
ISO	
DIN	

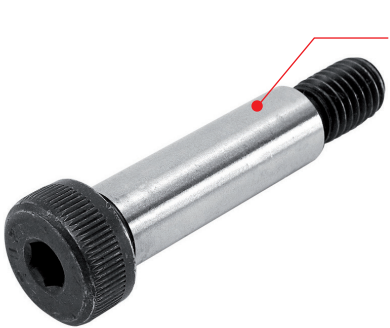
GIVE THE:	
Dimensions	
Material	
Finish	

COMPLEMENT to the range

MADE TO MEASURE SHOULDER HEAD SCREWS

Min quantity





Choice of material:
- Hardened steel
- **Stainless steel**
- **Pre-treated stainless steel**

Contact our technical team for more information

CASTERS

Min quantity

ALL of the different parts of a caster can be modified.
Contact us for details



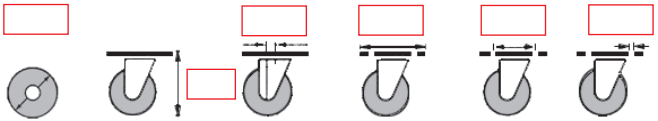
Type of plate:
- Screw plate
- Ring stem for use with a tube
- With or without brakes

Plate material:
- Pressed sheet steel
- Welded steel
- **Stainless steel**

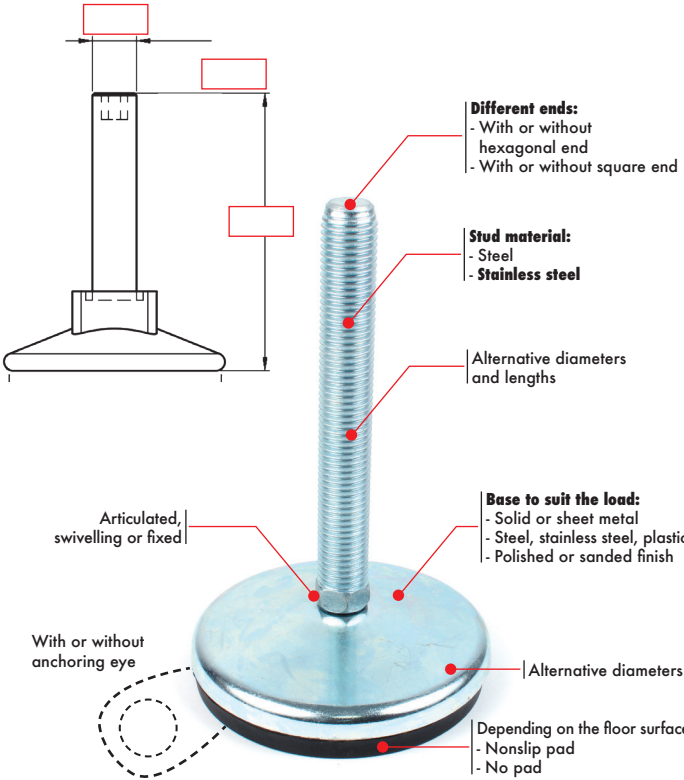
Choice of axle:
- Ball bearings
- Slide bearings

Choice of wheel body material:
- Rubber
- Polyamide
- Polyurethane

Don't forget to take into account the type of floor surface and the load to be carried



MOUNTING FEET



Find our full range of

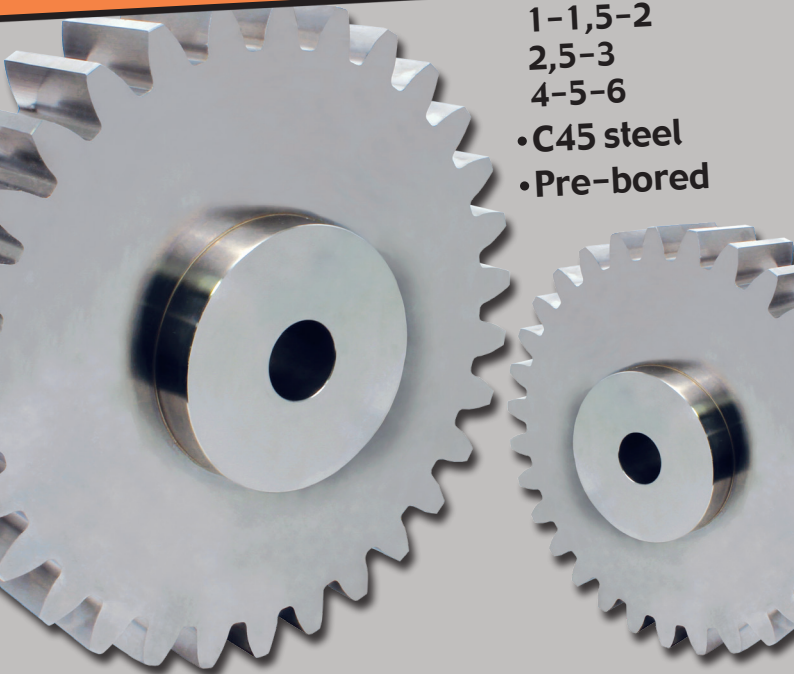
GEARS

on HPCEUROPE.COM



Economy range

- Modules
  1-1,5-2
  2,5-3
  4-5-6
- C45 steel
- Pre-bored





MINIMUM ORDER 20€*

€ VOLUME DISCOUNT

1,2,3 PRODUCTS SOLD INDIVIDUALLY

CAD FILES STEP, IGES...

MADE TO MEASURE AVAILABLE

CAD FILES STEP, IGES...

1,2,3 PRODUCTS SOLD INDIVIDUALLY

€ VOLUME DISCOUNT

MADE TO MEASURE AVAILABLE



FREE CATALOGUES

FREE DELIVREY FOR ORDERS 100€* OR MORE

CAD FILES STEP, IGES...

1,2,3 PRODUCTS SOLD INDIVIDUALLY

FAST QUOTES & ORDERS

€ VOLUME DISCOUNT

* Certain conditions apply - Deliveries to mainland France only

General Terms of Sale

(For professional Clients)

1- APPLICATION AND OPPOSABILITY OF THE GENERAL TERMS OF SALE

Placing an order with ENGRENAGES HPC - Ct Meca ("HPC - Ct Meca") implies the full and unreserved acceptance by the professional buyer (the "Customer") of these General Terms of Sale (the "GTC"), to the exclusion of all other documents issued by HPC - Ct Meca which are provided for information only and solely for reference, in spite of any stipulation to the contrary indicated on the Customer's purchase orders, on its general terms and conditions of purchase or on any other document produced by the Customer.

Any condition imposed by the Customer shall therefore be ineffective against HPC - Ct Meca unless it is expressly accepted by HPC - Ct Meca, regardless of when it was informed of the condition.

These GTS may only be completed by the specifications for customised parts, it being stated that if there is any conflict between these GTS and the technical specifications of the parts to be produced, the CGV shall take precedence.

If HPC - Ct Meca does not require performance at a given time of any of the clauses hereof, it cannot be deemed to have waived its right to require performance later on.

2 - ORDERS

Orders must be placed in writing by the Customer with HPC - Ct Meca. Any order placed by telephone must therefore be confirmed by the Customer in writing within 24 hours of the phone call. If it is not confirmed, it will not be taken into account. The order only becomes final and the sales agreement is only formed once it has been accepted by HPC - Ct Meca either by sending confirmation of order or by delivery of the products ordered to the Customer.

If HPC - Ct Meca makes any changes to the Customer's order, which are indicated in the order confirmation letter sent to the Customer, the Customer is deemed to have accepted the changes unless it submits a written response within 24 hours.

-No orders will be accepted for less than 20€ exclusive of tax, including for over-the-counter orders.

-No orders will be accepted for less than 150€ for EU countries, or for over 500€ for non-EU countries.

3- MODIFICATION OR CANCELLATION OF ORDERS

Modification or cancellation of orders requested by the Customer can only be taken into account if they have been expressly accepted by HPC - Ct Meca within 24 hours of the request.

The Customer will be liable for any processing costs. They will be indicated in the acceptance letter. The costs applicable may represent up to 50% of the total cost of the order row concerned or of the total cost of the order. If they are not accepted by HPC - Ct Meca, the products initially ordered will be shipped as initially planned and must be paid for.

4- PRICE

All of the prices in our catalogue are indicated exclusive of tax, and VAT at the current rate, delivery and packaging charges and any insurance that the Customer wishes to take out, must be added. The packaging is selected by HPC - Ct Meca, unless specifically requested by the Customer.

Except as otherwise stated, the products are sold at the price in force on the order date. The prices of the products stated in the catalogue are those in force on the catalogue publication date indicated on the cover. They may be amended by HPC - Ct Meca at any time.

5-DELIVERY - TERMS - LEAD TIMES

A- LEAD TIMES

Parts in stock on the order acceptance date may be made available or shipped within a maximum of 72 hours from the time of acceptance. For parts in the catalogue that are not in stock on the order acceptance date or for special parts, the manufacturing lead time is indicated for information only when the order is accepted.

Except in cases of force majeure, if the delivery date indicated by HPC - Ct Meca is exceeded by more than thirty (30) working days, the Customer may request the early cancellation of the order by registered letter with acknowledgement of receipt within thirty (30) working days of expiry of the deadline.

For the purposes of these GTS, the following are deemed to be force majeure events: wars, riots, fires, strikes, natural disasters, impossibility of obtaining supplies, this list not being restrictive.

Cancellation shall enter into effect on the date of receipt by HPC - Ct Meca of the aforementioned letter provided that the delivery has not been carried out prior to the date of receipt of the letter.

B- DELIVERY

Except as otherwise expressly stipulated, delivery is carried out by direct delivery of the products to the Customer on the premises of HPC - Ct Meca in Dardilly, 69570 (France) or to the carrier chosen by HPC - Ct Meca, or failing that one chosen by the Customer.

The products are sold from Dardilly, 69570 France (premises of HPC - Ct Meca), and are transported at the risk of the consignee, notwithstanding HPC - Ct Meca's retention of title clause as stipulated below.

Except as otherwise expressly provided, goods are transported FCA (at the Customer's expense by the carrier chosen by HPC - Ct Meca) or failing that one by the Customer.

It is up to the Customer to express any customary observations and reservations to the carrier in the event of loss or damage during transport, by registered letter with acknowledgement of receipt or by extrajudicial document within three days of receipt of the products (Article L.133-3 of the French Commercial Code).

HPC - Ct Meca reserves the right to carry out part deliveries.

C- ACCEPTANCE

The Customer must check at the time of delivery, in the presence of the carrier, that the parcels do not show any sign of having been damaged, broken or opened, and that the number of parcels matches the number indicated on the shipping document. The customer must express any reservations on the shipping document.

Without prejudice to the measures to be taken with regard to the carrier, claims regarding apparent defects or non-compliance of the product delivered with the product ordered or with the consignment note must be made in writing within thirty days of the arrival of the products, or the claim is barred.

It is up to the Customer to ask HPC - Ct Meca for a return voucher number and to provide any proof of the reality of the defects or anomalies identified. It must enable HPC - Ct Meca to assess these defects and remedy them. It will not intervene itself, or require a third party to intervene for this purpose.

HPC - Ct Meca's only obligation under the warranty will be to replace free-of-charge the item that it has recognised as defective. All warranty claims for products must first be submitted to HPC - Ct Meca's quality or engineering department, whose consent is required for any replacement. Any postal charges are payable by the Customer if the warranty does not apply.

6- PAYMENT - TERMS AND CONDITIONS

Our invoices are sent with the articles ordered and are payable:

- on receipt,
- at the end of the month, 30 days after the invoice date, subject to the line of credit granted. This means of payment is subject to approval by HPC - Ct Meca, which reserves the right to withdraw it at any time, without the Customer being able to object,
- in Euros,
- Credit card (Master card or visa) or bank transfer, the choice of method of payment cannot change the payment due date

No discount will be granted for early payment.

7- LATE OR NON-PAYMENT

In the event of late payment, the penalty is due without it being necessary to send a reminder, on the day following the payment date indicated on the invoice.

Unless there is a provision to the contrary, which cannot however set the rate at less than three times the legal interest rate, the interest rate for the late payment penalty is equal to that applied by the European Central Bank in its most recent refinancing operation, increased by 10%.

Lump-sum compensation for recovery costs is automatically due from the first day of late payment regardless of the deadline applicable to the transaction. This lump-sum compensation of 40€ must be paid in the event of late payment of any amount due, in addition to the late payment penalty.

If the recovery costs actually incurred are higher than this fixed amount, in particular if a collection agency is employed to send reminders and notice to pay, the Customer may be asked to pay additional compensation on production of documentary evidence.

HPC - Ct Meca reserves the right to suspend the customer's orders in progress, with or without notice, until it has paid the amounts due, and to take back the equipment delivered.

The Customer must pay each invoice at the due date even if a claim is made.

8- WARRANTY

HPC - Ct Meca guarantees the Customer against defects or hidden defects in the products sold, under the conditions specified in Article 1641 of the French Civil Code.

In the event of customised production, since HPC - Ct Meca does not provide any services as an engineering department, it undertakes to produce the products in compliance with the specifications provided by the Customer, but does not guarantee that they will function, which it is up to the Customer alone to assess. The Customer alone is responsible for the information transmitted to HPC - Ct Meca.

For standard products, HPC - Ct Meca guarantees that they will meet the specifications indicated in the catalogue, subject to technical changes made by suppliers. Liability and/or warranty claims against HPC - Ct Meca must be made within thirty days of receipt of the goods by the Customer. They cannot result in compensation that exceeds the price of the order concerned. Damage caused by a part marketed by HPC - Ct Meca cannot on any account result in compensation.

If a customised product infringes the rights of a third party, the Customer undertakes to repay any resulting costs that may be incurred by HPC - Ct Meca (proceedings, compensation, damages, costs of lawyers and other consultants etc.) and actively help to defend HPC - Ct Meca at its own expense.

The warranty does not apply if the products sold are modified or interfered with without the prior written agreement of HPC - Ct Meca or if the products are used in an abnormal manner or in abnormal conditions in view of their characteristics and the normal practice and standards applicable (in particular in the event of use or installation in aircraft and/or spacecraft for which the products are totally unsuitable).

9- RETURNS - TERMS AND CONDITIONS

All product returns must be the subject of a formal agreement between HPC - Ct Meca and the Customer by fax, email or letter.

The carrier is chosen by HPC - Ct Meca. Any product returned without such agreement shall be kept at the Customer's disposal and will not result in the issue of credit notes or repayment.

In any case, no returns will be accepted if they are sent more than thirty days after receipt of the product. The Customer is always liable for the costs and risks of return. All returns must be sent to our head office.

All returns accepted by HPC - Ct Meca shall result in the issue of a credit note to the Customer valid for a period of six months from the issue date, after checking the quality and quantity of products returned.

In the event of an apparent defect or non-compliance of the products delivered, duly certified by HPC-Ct Meca, the Customer may receive a replacement free of charge, or repayment of the products, at HPC - Ct Meca's discretion, to the exclusion of any compensation or damages.

10- RETENTION OF TITLE

Transfer of ownership of all standard or customised parts is subject to payment payment of the price in full, including principal and incidental charges, it being stated that payment is deemed to have taken place on the date of actual receipt of the amounts by HPC - Ct Meca.

The preceding provisions do not prevent the transfer of risks to the Customer (in particular the risk of loss, deterioration and damage caused by the parts shipped) at the time of shipping or delivery of the goods by HPC - Ct Meca.

If the Customer returns equipment acquired from HPC - Ct Meca in order to have a part produced that must be incorporated in it, or that will be added to it, the Customer remains the owner of the equipment, bears the costs of shipping and return, and the risks linked to transport and any adaptation or alteration of the equipment by HPC - Ct Meca, and to any damage it may cause.

11- APPLICABLE LAW - COURT OF COMPETENT JURISDICTION

Sales concluded with HPC - Ct Meca are governed by French law.

Any disputes that may arise between the parties concerning the interpretation and/or performance and/or termination of the contract shall be referred to the commercial courts with jurisdiction over the head office of HPC - Ct Meca, even in the event of third party proceedings or multiple defendants.

Non-contractual photographs.
Product information subject to technical changes.

General Terms of Sale for non-professional clients are available on our website hpceurope.com

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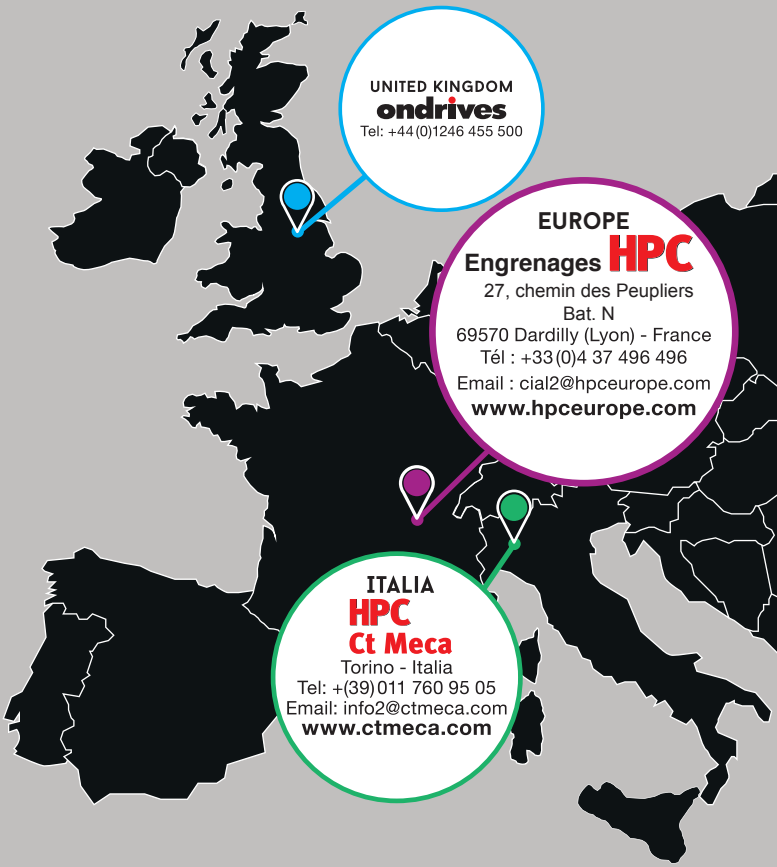
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