

HPC

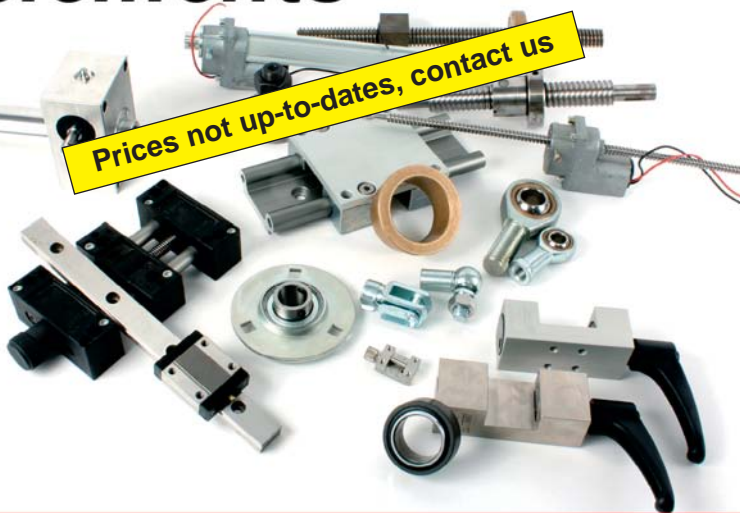
Mechanical components by mail order

3/6

April 2011

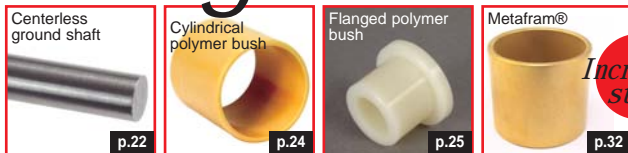
Guiding elements

Prices not up-to-dates, contact us



Tel. +33 437 496 496 - www.hpceurope.com

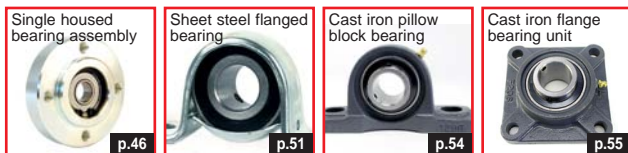
Image index 1/2



Increased stock



Increased stock



until -25%

Stainless steel

Stainless steel until -25%

Stainless steel until -25%

Stainless steel



Stainless steel

Stainless steel



New

inox

Discounts : maximum discount on price list 2010

Stock : depending on availability

New : new product

<p>Radial bearing</p>  <p>p.75</p>	<p>Radial bearing</p>  <p>p.76</p>	<p>One way needle bearing</p>  <p>p.79</p>	<p>Bearing lock nut</p>  <p>p.80</p>
<p>Precision lock nut</p>  <p>p.82</p>	<p>Self locking nut</p>  <p>p.84</p>	<p>Precision stainless shims</p>  <p>p.86</p>	<p>Spring washer</p>  <p>p.87</p>
<p>Spherical bushing</p>  <p>p.90</p>	<p>Igubal® Spherical bushing</p>  <p>p.97</p>	<p>Heavy duty male rod end</p>  <p>p.100</p>	<p>Heavy duty female rod end</p>  <p>p.102</p>
<p>180° ball and socket joints</p>  <p>p.110</p>	<p>90° ball and socket joints</p>  <p>p.111</p>	<p>Clevis component</p>  <p>p.112</p>	
	<p>Precision linear rotary ball spline</p>  <p>p.118</p>	<p>Compact precision slide</p>  <p>p.126</p>	<p>Compact precision slide</p>  <p>p.132</p>
<p>Linear ball slide</p>  <p>p.138</p>	<p>Linear ball slide</p>  <p>p.150</p>	<p>Linear roller slide</p>  <p>p.160</p>	<p>Turn the page please</p> 

Image index 2/2

Drylin®T linear slide



Manual locking clamp



Drylin®N miniature guiding system



Drylin®W rail



Drylin®W bearing block



Drylin®W slide



Supported shaft



Shaft for linear guide



End support



End support



Linear bearing



Housing for linear bearing



Miniature linear bearing



Precision linear bearing



Topball self-aligning linear bearing



Drylin® closed polymer bearing



Precision open linear bearing



Standard linear bearing housing



Short housing for open linear bearing



DryLin R® linear bearing housing



Linear table



Utilitrak® linear guides



Half-rail guide



Discounts : maximum discount on price list 2010

Stock : depending on availability

New : new product

<p>V-rail guidance system</p>  <p>p.232</p>	<p>Ring slide and track system</p>  <p>p.236</p>	<p>Bearing assembly</p>  <p>p.248</p>	<p>Cam follower</p>  <p>p.257</p>
<p>Leadscrew</p>  <p>p.262</p>	<p>Square nut</p>  <p>p.267</p>	<p>Cylindrical polymer nut</p>  <p>p.268</p>	<p>Steel nut</p>  <p>p.270</p>
<p>Bronze nut</p>  <p>p.273</p>	<p>Ballscrew and nut for ballscrew</p>  <p>until -25% p.280</p>	<p>Ballscrew bearing unit</p>  <p>p.282</p>	<p>Motorised linear actuator</p>  <p>p.286</p>
<p>Miniature motorised actuator</p>  <p>p.292</p>	<p>Screwjack</p>  <p>p.299</p>	<p>DryLin® linear table</p>  <p>p.310</p>	
<p>High speed linear table</p>  <p>p.315</p>	<p>Domino adjustable slide</p>  <p>p.318</p>	<p>Domino rotary table</p>  <p>p.334</p>	<p>Rotary table</p>  <p>p.336</p>
<p>H type guide units</p>  <p>p.338</p>	<p>Actuator guide kit</p>  <p>p.344</p>	<p>Motorised linear slide</p>  <p>p.348</p>	<p>Modular linear guide system</p>  <p>p.352</p>

850 different product ranges
available for download

3D



from
www.hpceurope.com
"CAD PORTAL" tab

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HPC's philosophy



Information

- **Technical support and commercial teams available**, to give advice and other information from 8.00 to 12.20 and 13.40 to 18.00, monday to friday.
- **Information can also be downloaded directly from the website.**



Special and customised parts

- **Standard products can be modified** to meet your requirements.
- **Customised parts can be manufactured from your drawings or samples.**
- **Non catalogue items can be sourced on your behalf.**
- **Special manufacturing runs are possible for medium or larger quantities**



Ordering

- **Ordering more than 25000 parts number on:**
www.hpceurope.com
- **Orders can also be placed via telephone, fax or post.**

PDF



files

3D

Customer account n°:

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
----------------------	----------------------	----------------------	----------------------	----------------------	----------------------

Sales contact:

.....

.....

.....

Internet password:

... customer satisfaction



Payment

- Cheque
- Bank transfer
- Banker's draft
- Credit card



- **Our bank details:**
BNP PARIBAS
Centre d'Affaires
Entrepreneurs
Lyon Ouest
69948 Lyon cedex 20
Account n°:
00010041122



Delivery

- **For any order placed before 15.00, parts that are in stock will be delivered before 18.00 the next day (Mainland France).** We currently achieve a 95% success rate.
- Any order with a value of 50 Euros or more, excluding VAT, will be delivered **Free of Charge** to Mainland France (Items longer than 1 metre excluded).



Company

Information

Engrenages HPC

A limited liability company, issued Capital of 76224€

N° 382 911 907 RCS Lyon,

Company classification APE 4669B

TVA FR 41 382 911 907

**58, chemin de la Bruyère
69570 Dardilly
Lyon - FRANCE**

cial2@hpceurope.com

www.hpceurope.com

Telephone:
+33(0)4 37 496 496

Fax:
+33(0)4 37 490 055

0,55€ TTC/min
Tel: 0825 88 5000

0,55€ TTC/min
Fax: 0825 88 6000

Ordering from HPC

How to order ?

Products can be found using...



*Image
index*



*Name
index*



*Part number
index*

To place an order...



Tel. +33 (0)4 37 496 496



Fax. +33 (0)4 37 490 055



www.hpceurope.com

*Having the following available will ensure
an order is processed quickly*

- Your HPC account number*
- Company name, contact name*
- Invoice address*
- Delivery adress*
- An official order number*
- Reference of any quote received*
- The references and quantities of the products required*
- The delivery date required*
- Your VAT Registration number*

Requesting a quote from HPC

How to get a quote?

The following information will be needed...

*Company name, contact name
Address, email and telephone number
A description of the product with as much detail as possible
The quantity required
Delivery time required
Is it a product to be repaired?
Is this a prototype (from a drawing or sample?)
Any necessary drawings or samples*

Specific details that will be required...

For Gears:

the number of teeth, the module and the material

For Gearboxes:

the speed, the torque and the reduction in speed

For Pulleys and Belts:

the step size, the material, the number of teeth and the length

For Worms and Wheels:

the module, the material, the number of teeth and the reduction in speed

Send the request for a quote to...



cial2@hpceurope.com



Fax. +33 (0)4 37 490 055



Tel. +33 (0)4 37 496 496

Buyers guide















Rotary motion

Self-aligning flanges and housings



Part number	UCP	UCF	UCFL	UCT	UCP/PBT
Description	pillow block	4 hole flange unit	2 hole flange unit	slider	pillow block
Body material	cast iron	cast iron	cast iron	cast iron	polymer
Bearing material	steel	steel	steel	steel	stainless steel
Bore-size (mm)	Ø20 → Ø75	Ø20 → Ø80	Ø20 → Ø60	Ø20 → Ø60	Ø12 → Ø40
Maintenance					
Self-aligning	✓	✓	✓	✓	✓
Spherical	✗	✗	✗	✗	✗
Uses	everyday	everyday	everyday	everyday	food industry
Quality	☆☆	☆☆	☆☆	☆☆	☆☆☆
Price	€	€	€	€	€€
Pages	3 54	3 55	3 56	3 57	3 58

 : with  : w/o

						
UCF/PBT	UCFL/PBT	UCP/SS	UCF/SS	UCFL/SS	KSTM	EFSM
4 hole flange unit	2 hole flange unit	pillow block	4 hole flange unit	2 hole flange unit	Igubal® pillow block	Igubal® 4 hole flange unit
polymer	polymer	stainless steel	stainless steel	stainless steel	polymer	polymer
stainless steel	stainless steel	stainless steel	stainless steel	stainless steel	polymer	polymer
Ø12 → Ø40	Ø12 → Ø40	Ø20 → Ø40	Ø20 → Ø40	Ø20 → Ø40	Ø5 → Ø30	Ø5 → Ø30
						
✓	✓	✓	✓	✓	✓	✓
✗	✗	✗	✗	✗	✓	✓
food industry	food industry	difficult environment	difficult environment	difficult environment	everyday	everyday
☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆
€€	€€	€€€	€€€	€€€	€	€
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Buyers guide















Ball socket joints and bearings spherical plain bearings



Part number	GE-ES	GE-ES-2RS	GE-C	GE-ET-2RS	CSS
DIN 648	DIN 648	DIN 648	DIN 648	DIN 648	DIN ISO12240-1
Description	-	with sealed joint	-	with sealed joint	-
Ring / sphere materials	steel / steel	steel / steel	hard chrome / Teflon	hard chrome / Teflon	steel / self-lubricating steel
Bore-size (mm)	Ø6 → Ø110	Ø15 → Ø110	Ø6 → Ø30	Ø17 → Ø110	Ø6 → Ø30
Maintenance					
Load indication	☆☆☆	☆☆☆	☆☆☆ one-directional	☆☆☆ one-directional	☆☆☆
Withstands shocks	✓	✓	✗	✗	✓
Oscillation speed	☆☆☆	☆☆☆	☆	☆	☆☆☆
Quality	☆☆	☆☆	☆☆	☆☆	☆☆
Price	€	€	€€	€€	€€€
Pages	3 90	3 91	3 92	3 93	3 94

 : with  : w/o

Rod end bearings

						
SSE	KGLM	DGSA	DGSI	CMM	CFF	SME, SFE
Unibal®	Igubal®	DIN 648	DIN 648	DIN 12240-4	DIN 12240-4	Unibal®
-	-	male	female	male	female	male / female
stainless steel / Teflon	polymer / polymer	steel / steel	steel / steel	steel or stainless steel / bronze self-lubricating	steel or stainless steel / bronze self-lubricating	stainless steel / Teflon
Ø3 → Ø18	Ø5 → Ø30	Ø6 → Ø80	Ø6 → Ø80	Ø4 → Ø20	Ø5 → Ø35	Ø2 → Ø18
						
☆☆☆	☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆
X	✓	✓	✓	X	X	X
☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆
☆☆☆	☆☆☆	☆☆	☆☆	☆☆	☆☆	☆☆☆
€€€€	€€	€€	€€	€€€	€€€	€€€€
③ 96	③ 97	③ 100 → 101	③ 102 → 103	③ 104, 106	③ 105, 107	③ 108 → 109













Buyers guide

Linear motion

Linear slides



Part number	BSP	BWU	LWL	LWH	LRX	LSAG
Description	extendable slide	extendable slide	slide with ball-bearings	slide with ball-bearings	slide with rollers	ball-bearing splined shaft
Advantages	reduced stroke	high rigidity, reduced stroke	everyday use	applications without vibrations or shocks	applications with vibrations and/or shocks	lateral movement with no rotation
Material	stainless steel	stainless steel	stainless steel	steel	steel	steel
Contact elements	ball-bearings	ball-bearings	recirculating balls	recirculating balls	recirculating cylinders	recirculating balls
Max. stroke length (mm)	63	66	1440	2960	2960	1200
Precision	☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆
Load	☆	☆☆	☆☆	☆☆☆	☆☆☆	☆
Load direction						
Uses	measuring devices, hard disks, scanners	clean rooms, medicine	machine tools, conveyors, robotics	machine tools, conveyors, robotics	machine tools, conveyors, robotics	measuring, robotics, integrated circuit production
Brand	IKO	IKO	IKO	IKO	IKO	IKO
Price	€€	€€	€€€	€€	€€€	€€
Pages	3 126 - 131	3 132 - 137	3 138 - 149	3 150 - 159	3 160 - 167	3 118 - 125

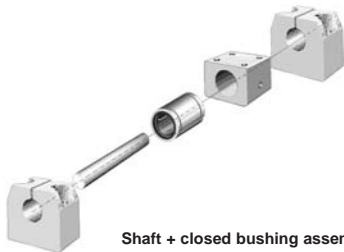
					
TS / TW	NK / NW	WJUM / WS	HW / HTS	HCV / HRV	R / FCP RSJ / RLJ
linear slide rule	miniature guidance	compact and modular guidance	V-rail guidance	V-rail guidance	ring slides and track system
no maintenance, silent	simple and efficient	silent, easy assembly	precise, easy to use	for high speed and reduced stroke length	for curved tracks
aluminium	aluminium	aluminium	steel	steel	steel
DryLin® T polymer slides	DryLin® T polymer slides	DryLin® T polymer slides	ball-bearings (roller)	ball-bearings (roller)	ball-bearings (roller)
3959	3000	4000	6096 linkable	1976 linkable	90°, 180° 360°
☆☆	☆	☆☆	☆☆	☆☆	☆☆
☆☆	☆	☆☆	☆☆☆	☆☆☆	☆☆☆
					
machine tools, dirty and damp environments	easily adaptable to many applications	easily adaptable to many applications	for all types of usage, quick and economical	machine tools, special machines, high modularity	machine tools, special machines, high modularity
IGUS	IGUS	IGUS	HEPCO	HEPCO	HEPCO
€€	€	€	€€	€€	€€
3 168 - 169	3 174 - 177	3 184 - 190	3 224 - 231	3 234 - 235	3 236 - 251

Buyers guide

Linear motion Closed bushings



Part number	LBE	KB-WW	KB-UU	KBS	KBS-WW
Description	miniature	massive	massive	massive stainless steel	massive stainless steel
Brand	IKO	-	NB	NB	-
For shaft size (mm)	Ø3 → Ø5	Ø8 → Ø40	Ø5 → Ø80	Ø8 → Ø60	Ø12 → Ø40
Shaft part number	-	Z-A	Z-A	Z-B	Z-B
Housing unit	-	NSB, S2B	NSB, S2B	NSB, S2B	NSB, S2B
Shaft end	-	SFWR, FGWA	SFWR, FGWA	SFWR, FGWA	SFWR, FGWA
Advantages	small diameters	economy range	high load capacity	high load capacity	economy range
Quality	☆☆☆	☆☆	☆☆☆	☆☆☆	☆☆
Price	€€	€	€€	€€€€	€
Pages	3 202	3 203	3 204	3 205	3 203



Shaft + closed bushing assembly

Opened bushing


TK
KH
RJUM / RJZM
TK-OP
KB-OP

 self-aligning
Topball®

light

 polymer,
without ball-
bearings

 self-aligning
Topball®

massive

NB

-

DryLin®

NB
NB
 $\varnothing 12 \rightarrow \varnothing 40$
 $\varnothing 12 \rightarrow \varnothing 50$
 $\varnothing 5 \rightarrow \varnothing 50$
 $\varnothing 12 \rightarrow \varnothing 40$
 $\varnothing 10 \rightarrow 80$
Z-A
Z-A
AWN
FTSN
FTSN
NSB, S2B
SAKH
**RJUM05,
RJUM06**
NSO, S2O
NSO, S2O
**SFWR,
FGWA**
**SFWR,
FGWA**
**SFWR,
FGWA**

-

-

 compensates
for
misalignments

for light loads

 not sensitive
to dirt

 heavy loads,
long lengths

 heavy loads,
long lengths

☆☆☆

☆☆

☆☆☆

☆☆☆

☆☆☆

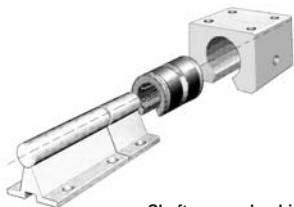
€€

€

€€

€€€

€€€

3 206
3 200
3 216
3 209
3 208

Shaft + open bushing assembly

Buyers guide

Actuator guides

Complete

In kit form



Part number	UGH	UGPC	UGPL	UGCG
Description	H style guide	short bearing	long bearing	guide shaft
Advantages	complete package	modular system, assemble as required	modular system, assemble as required	modular system, assemble as required
For actuators	Ø25 to Ø50	-	-	-
Stroke	25 → 60mm	-	-	700mm
Price	€€	€€	€€	€€€
Pages	3 338 → 342	3 344	3 345	3 346

Linear guidance

Linear modules

Linear tables



Part number	SLM	PDU	SHTP	SHTC
Description	modular linear guides	motorised linear guides	Drylin® linear tables	Drylin® linear tables
Stroke (mm)	200 → 3000	500 → 1500	100 → 500	100 → 1250
Advantage	modular	motorised	economy version	maintenance free
Quality	☆☆☆	☆☆☆	☆	☆☆
Price	€€€	€€€	€	€€
Pages	3 353 → 354	3 348 → 351	3 310 → 311	3 312 → 313

Index icons

Internal bore



Modifiable



Non-modifiable

Load



Axial load



Radial load



Heavy duty



Max load
1 tonne

Delivery time



In hours or weeks

Method of fabrication



Moulded



Machined

Materials



Steel



Cast iron



Aluminium



Stainless steel



Bronze



Brass



Copper



Nylon



Delrin



Plastic

NEW
2011



Peek

Resistant to



Low
temperatures



High
temperatures



Corrosion



Shock

Special HPC



News



In stock



Custom-made



In imperial

Angles



Compatibility



Robotic
industry



Food industry

Maintenance



Maintenance
free



No lubrication

Applicable



Industrial



Manual

Standards



DIN



ISO

Origin



Japan



Switzerland

Quality



from 1 to 8

Others



Bi-directional



Miniature size



Precision



Easy assembly



Modular



Light



Bearings



No fixing



Duo



Low cost
range



High speed of rotation

Rotary motion

Stainless/Polymer pillow block bearing
page 58



Until
-25%



p.22



p.24



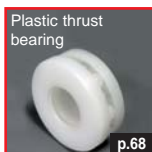
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p.68



p.69



p.72



p.75



p.79



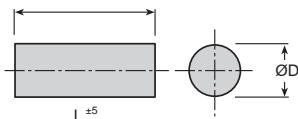
p.80

- Material: precision drawn steel
- External diameter tolerance:
 $\leq 25\text{mm} +0/-0.015\text{mm}$
 $> 25\text{mm} +0/-0.025\text{mm}$
- Std length A = 333mm $\pm 5\text{mm}$
- Hardness: 9 HRC
- Tensile strength: 700-850 N/mm²
- Surface finish: 0,6 μm

Chemical composition

Standard % Typical analysis

C	0.95/1.25	1,130
Si	0.40 max.	0,220
Mn	0.25/0.45	0,370
P	0.045 max.	0,014
S	0.045 max.	0,018
Cr	0.35/0.45	0,430



Options

- Alternative lengths of 1 metre (B) or 3 metres (C) are available. To specify the length, add the letter to the part number
 E.g. RSH020A

DISCOUNTS

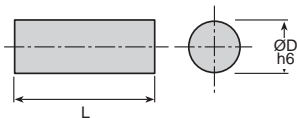
Qty.	1+	6+	20+	40+	60+	100+
Disc.	List -10%	-15%	-20%	-25%	On request	

Part number	ØD	Stock	Stock	Price	Price
		333mm	1 metre	each A:	each B:
				333mm	1 metre
RSH020	2,00	✓	✓	1,34 €	3,28 €
RSH025	2,50	-	-	1,42 €	4,52 €
RSH030	3,00	✓	✓	1,70 €	5,29 €
RSH035	3,50	-	-	2,09 €	6,57 €
RSH040	4,00	✓	✓	2,29 €	7,12 €
RSH045	4,50	-	-	3,37 €	10,40 €
RSH050	5,00	✓	✓	4,74 €	9,73 €
RSH055	5,50	-	-	4,33 €	13,24 €
RSH060	6,00	✓	✓	4,52 €	13,78 €
RSH065	6,50	-	-	4,87 €	14,91 €
RSH070	7,00	-	-	5,28 €	16,15 €
RSH075	7,50	-	-	6,53 €	19,77 €
RSH080	8,00	✓	✓	6,10 €	19,83 €
RSH085	8,50	-	-	8,04 €	24,43 €
RSH090	9,00	-	-	7,96 €	24,11 €
RSH095	9,50	-	-	10,05 €	30,33 €
RSH100	10,00	✓	✓	13,25 €	28,63 €
RSH105	10,50	-	-	12,39 €	37,41 €
RSH110	11,00	-	-	11,66 €	35,30 €
RSH115	11,50	-	-	15,60 €	46,94 €

Part number	ØD	Stock	Stock	Price	Price
		333mm	1 metre	each A:	each B:
				333mm	1 metre
RSH120	12,00	✓	✓	13,88 €	41,73 €
RSH125	12,50	-	-	18,47 €	55,66 €
RSH130	13,00	-	-	14,56 €	43,97 €
RSH140	14,00	-	-	17,09 €	51,56 €
RSH150	15,00	-	✓	19,15 €	57,77 €
RSH160	16,00	-	✓	19,77 €	59,61 €
RSH170	17,00	-	-	22,59 €	67,99 €
RSH180	18,00	-	-	25,29 €	76,09 €
RSH190	19,00	-	-	28,81 €	86,63 €
RSH200	20,00	✓	✓	29,37 €	88,36 €
RSH210	21,00	-	-	34,78 €	104,62 €
RSH220	22,00	-	-	36,32 €	109,14 €
RSH230	23,00	-	-	43,20 €	129,85 €
RSH240	24,00	-	-	43,75 €	131,43 €
RSH250	25,00	-	✓	45,73 €	137,53 €
RSH260	26,00	-	-	56,31 €	169,19 €
RSH270	27,00	-	-	57,41 €	172,50 €
RSH280	28,00	-	-	65,50 €	196,69 €
RSH290	29,00	-	-	69,97 €	210,13 €
RSH300	30,00	✓	-	61,17 €	183,81 €

*Depending on availability

- Material: stainless steel 303
- Standard length from 300mm to 1000mm cf. column L
- External diameter tolerance: h6
- Straightness: 0.01/300mm
- Surface finish: Ra 0.4



DISCOUNTS

Qty.	1+	6+	20+	40+	60+	100+
Disc.	List -10%	-15%	-20%	-25%	On request	

Part number	ØD	L	Stock	Price each 1 to 5	Part number	ØD	L	Stock	Price each 1 to 5
GR2.992-6	2,992	600	✓	13,62 €	GR9.993-1	9,993	1000	-	104,88 €
GR3.000-6	3,000	600	✓	13,62 €	GR10.000-4	10,000	400	✓	34,35 €
GR3.003-3	3,003	300	-	on request	GR10.000-9	10,000	900	-	88,05 €
GR3.003-6	3,003	600	-	on request	GR10.000-1	10,000	1000	-	104,88 €
GR3.992-6	3,992	600	✓	18,07 €	GR11.991-4	11,991	400	-	46,48 €
GR3.999-6	3,999	600	✓	16,13 €	GR11.991-9	11,991	900	-	on request
GR4.991-9	4,991	900	✓	27,34 €	GR11.993-1	11,993	1000	-	136,59 €
GR5.000-6	5,000	600	✓	17,07 €	GR12.000-4	12,000	400	✓	46,48 €
GR5.993-6	5,993	600	✓	22,55 €	GR12.000-9	12,000	900	-	120,77 €
GR5.992-9	5,992	900	-	33,69 €	GR12.000-1	12,000	1000	✓	139,05 €
GR6.000-6	6,000	600	✓	33,69 €	GR12.993-4	12,993	400	-	48,57 €
GR6.000-9	6,000	900	✓	33,69 €	GR12.993-9	12,993	900	-	on request
GR6.992-6	6,992	600	-	on request	GR13.993-9	13,993	900	-	142,07 €
GR6.992-9	6,992	900	-	on request	GR14.991-9	14,991	900	-	188,90 €
GR7.000-6	7,000	600	✓	25,66 €	GR15.974-9	15,974	900	-	on request
GR7.000-9	7,000	900	-	38,36 €	GR16.000-9	16,000	900	-	195,16 €
GR7.993-6	7,993	600	✓	31,63 €	GR19.992-9	19,992	900	✓	249,96 €
GR7.993-9	7,993	900	-	47,37 €	GR24.993-9	24,993	900	-	on request
GR8.000-6	8,000	600	✓	30,01 €	GR25.000-9	25,000	900	-	348,53 €
GR8.992-9	8,992	900	-	84,53 €	GR29.992-9	29,992	900	-	474,19 €
GR9.992-9	9,992	900	✓	88,67 €					

*Depending on availability

Cylindrical polymer bush



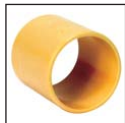
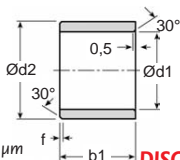
JSM

The speed specialist

- Material: iglidur® J, see JFM bush
- Not sold individually, please contact us for details

Assembly

- Recommended assembly tolerances shaft h9, housing bore-size H7
- Shaft tr. 50 HRC, surface roughness 0.8-2 µm



Options

- Bore diameter up to 50mm

DISCOUNTS

Qty	1+	10+	25+	50+	100+	200+	500+
Disc.	List	-10%	-25%	-40%	-50%	-60%	On request

Part number	Ød1	Ød2	b1 (h13)	f	Stock	Price each 1 to 9
JSM0104-02	1,5 ^{+0,014 +0,054}	4,0	2,0	0,5	✓	2,26 €
JSM0205-02	2,0 ^{+0,014 +0,054}	5,0	2,0	0,5	✓	2,36 €
JSM0206-02	2,5 ^{+0,020 +0,080}	6,0	2,5	0,5	-	on request
JSM0304-05	3,0 ^{+0,014 +0,054}	4,5	5,0	0,5	✓	2,93 €
JSM0308-04	3,0 ^{+0,020 +0,080}	8,0	4,0	0,5	-	4,33 €
JSM0308-05	3,0 ^{+0,020 +0,080}	8,0	5,0	0,5	-	3,70 €
JSM0405-04	4,0 ^{+0,020 +0,068}	5,5	4,0	0,5	✓	2,40 €
JSM0507-05	5,0 ^{+0,020 +0,068}	7,0	5,0	0,5	✓	2,45 €
JSM0608-06	6,0 ^{+0,020 +0,068}	8,0	6,0	0,5	✓	2,98 €
JSM0608-10	6,0 ^{+0,020 +0,068}	8,0	10,0	0,5	✓	3,17 €
JSM0810-08	8,0 ^{+0,025 +0,083}	10,0	8,0	0,5	✓	2,45 €
JSM0810-10	8,0 ^{+0,025 +0,083}	10,0	10,0	0,5	✓	3,03 €
JSM0810-12	8,0 ^{+0,025 +0,083}	10,0	12,0	0,5	✓	2,26 €
JSM0810-16	8,0 ^{+0,025 +0,083}	10,0	16,0	0,5	✓	3,24 €
JSM1012-05	10,0 ^{+0,025 +0,083}	12,0	5,0	0,5	✓	2,45 €
JSM1012-08	10,0 ^{+0,025 +0,083}	12,0	8,0	0,5	✓	2,50 €
JSM1012-15	10,0 ^{+0,025 +0,083}	12,0	15,0	0,5	✓	3,35 €
JSM1012-20	10,0 ^{+0,025 +0,083}	12,0	20,0	0,5	✓	3,48 €
JSM1014-16	10,0 ^{+0,025 +0,083}	14,0	16,0	0,5	-	3,12 €
JSM1016-10	10,0 ^{+0,025 +0,083}	16,0	10,0	0,5	-	3,17 €
JSM1016-16	10,0 ^{+0,025 +0,083}	16,0	16,0	0,5	-	3,54 €
JSM1214-08	12,0 ^{+0,032 +0,102}	14,0	8,0	0,8	✓	2,72 €
JSM1214-09	12,0 ^{+0,032 +0,102}	14,0	9,0	0,8	-	2,72 €
JSM1214-10	12,0 ^{+0,032 +0,102}	14,0	10,0	0,8	✓	2,72 €
JSM1214-15	12,0 ^{+0,032 +0,102}	14,0	15,0	0,8	✓	3,43 €
JSM1416-10	14,0 ^{+0,032 +0,102}	16,0	10,0	0,8	-	2,98 €
JSM1416-15	14,0 ^{+0,032 +0,102}	16,0	15,0	0,8	-	3,03 €
JSM1416-25	14,0 ^{+0,032 +0,102}	16,0	25,0	0,8	-	3,54 €
JSM1418-18	14,0 ^{+0,032 +0,102}	18,0	18,0	0,8	-	3,54 €
JSM1517-12	15,0 ^{+0,032 +0,102}	17,0	12,0	0,8	✓	3,48 €
JSM1517-20	15,0 ^{+0,032 +0,102}	17,0	20,0	0,8	-	3,35 €
JSM1618-12	16,0 ^{+0,032 +0,102}	18,0	12,0	0,8	✓	3,90 €
JSM1618-20	16,0 ^{+0,032 +0,102}	18,0	20,0	0,8	✓	3,90 €
JSM1820-20	18,0 ^{+0,032 +0,102}	20,0	20,0	0,8	-	4,69 €
JSM2023-20	20,0 ^{+0,040 +0,124}	23,0	20,0	0,8	-	4,74 €
JSM2023-25	20,0 ^{+0,040 +0,124}	23,0	25,0	0,8	✓	4,62 €
JSM2026-30	20,0 ^{+0,040 +0,124}	26,0	30,0	0,8	✓	5,97 €
JSM2427-25	24,0 ^{+0,032 +0,102}	27,0	25,0	0,8	-	5,88 €
JSM2528-30	25,0 ^{+0,040 +0,124}	28,0	30,0	0,8	✓	8,05 €
JSM2630-20	26,0 ^{+0,040 +0,124}	30,0	25,0	0,8	-	5,23 €

*Depending on availability



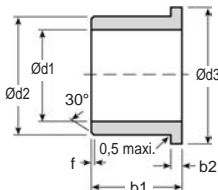
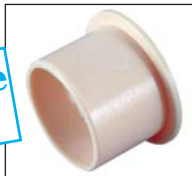
Flanged polymer bush

The speed specialist

JFM

- **Material:** iglidur® J
- Yellow
- Working temperature: -50°C to +90°C
(+60°C ideal, +120°C for short periods)
- Max. continuous speed:
Rotating 1.5 m/s
Oscillating 1.5 m/s
Linear 8 m/s
- Pressure resistance:
at +20°C 35 N/mm² (ideally 2 N/mm²)
- Friction coefficient
dry 0.06-0.18
greased 0.09
water/oil 0.04
- **Not sold individually, please contact us for details**

Maintenance free



Assembly

- Recommended assembly tolerances shaft h9, housing bore-size H7
- Shaft treated 50 HRC, surface finish 0.8-2 µm

Options

- Bore diameter up to 70mm

DISCOUNTS

Qty	1+	10+	25+	50+	100+	200+	500+
Disc.	List	-10%	-25%	-40%	-50%	-60%	On request

Part number	Ød1	Ød2	Ød3 (d13)	b1 (h13)	b2 (-0,14)	f	Stock	Price each 1 to 9
JFM0304-05	3 +0,014 +0,054	4,5	7,5	5	0,75	0,5	✓	2,31 €
JFM0405-06	4 +0,020 +0,068	5,5	9,5	6	0,75	0,5	✓	2,31 €
JFM0507-05	5 +0,020 +0,068	7,0	11,0	5	1,00	0,5	✓	2,31 €
JFM0608-06	6 +0,020 +0,068	8,0	12,0	6	1,00	0,5	✓	2,45 €
JFM0608-10	6 +0,020 +0,068	8,0	12,0	10	1,00	0,5	✓	2,56 €
JFM0810-06	8 +0,025 +0,083	10,0	15,0	6	1,00	0,5	✓	2,77 €
JFM0810-08	8 +0,025 +0,083	10,0	15,0	8	1,00	0,5	✓	2,86 €
JFM0812-06	8 +0,025 +0,083	12,0	16,0	6	1,00	0,5	✓	3,75 €
JFM1012-05	10 +0,025 +0,083	12,0	18,0	5	1,00	0,5	✓	2,82 €
JFM1012-09	10 +0,025 +0,083	12,0	18,0	9	1,00	0,5	✓	3,48 €
JFM1012-12	10 +0,025 +0,083	12,0	18,0	12	1,00	0,5	✓	3,54 €
JFM1012-15	10 +0,025 +0,083	12,0	18,0	15	1,00	0,5	✓	3,03 €
JFM1214-09	12 +0,032 +0,102	14,0	20,0	9	1,00	0,8	✓	3,39 €
JFM1214-12	12 +0,032 +0,102	14,0	20,0	12	1,00	0,8	✓	3,94 €
JFM1214-15	12 +0,032 +0,102	14,0	20,0	15	1,00	0,8	✓	4,16 €
JFM1416-12	14 +0,032 +0,102	16,0	22,0	12	1,00	0,8	-	3,89 €
JFM1416-17	14 +0,032 +0,102	16,0	22,0	17	1,00	0,8	✓	4,47 €
JFM1521-20	15 +0,032 +0,102	21,0	27,0	20	3,00	0,8	✓	6,75 €
JFM1618-17	16 +0,032 +0,102	18,0	24,0	17	1,00	0,8	✓	4,84 €
JFM1820-22	18 +0,032 +0,102	20,0	26,0	22	1,00	0,8	✓	5,15 €
JFM2023-21	20 +0,040 +0,124	23,0	30,0	21	1,00	0,8	✓	5,88 €
JFM2528-21	25 +0,040 +0,124	28,0	35,0	21	1,50	0,8	✓	6,45 €

*Depending on availability

Cylindrical polymer bush



ASM

For food and pharmaceutical industries

- Material: iglidur® A200
- Approved by the Food and Drug Administration (FDA)
- High resistance
- High abrasion resistance
- Suitable for slow oscillating, rotary or linear movements
- Working temp. -40°C to +80°C (short periods +170°C)
- Not sold individually, please contact us for details

Maintenance free



Assembly

- Recommended assembly tolerances shaft h9 housing bore-size H7
- Treated shaft 50 HRC
- Surface finish 1.5-3 µm

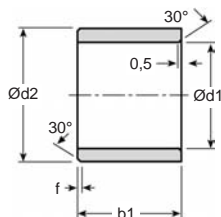
DISCOUNTS

Qty.	1+	10+	25+	50+	100+200+	500+
Disc	List	-10%	-25%	-45%	-60%	-65% On request

Part number	Ød1	Ød2	b1h13	f	Price each 1 to 9
ASM0103-02	1,0 ^{+0,020 +0,080}	3	2	0,5	2,61 €
ASM0104-02	1,5 ^{+0,020 +0,080}	4	2	0,5	2,72 €
ASM0205-02	2,0 ^{+0,020 +0,080}	5	2	0,5	2,77 €
ASM0205-03	2,0 ^{+0,020 +0,080}	5	3	0,5	2,77 €
ASM0206-03	2,5 ^{+0,020 +0,080}	6	3	0,5	2,82 €
ASM0305-03	3,0 ^{+0,020 +0,080}	5	3	0,5	2,82 €
ASM0305-04	3,0 ^{+0,020 +0,080}	5	4	0,5	3,81 €
ASM0306-03	3,0 ^{+0,020 +0,080}	6	3	0,5	2,82 €
ASM0306-04	3,0 ^{+0,020 +0,080}	6	4	0,5	2,93 €
ASM0407-03	4,0 ^{+0,030 +0,105}	7	3	0,5	3,90 €
ASM0407-04	4,0 ^{+0,030 +0,105}	7	4	0,5	2,93 €
ASM0407-06	4,0 ^{+0,030 +0,105}	7	6	0,5	3,90 €
ASM0408-06	4,0 ^{+0,030 +0,105}	8	6	0,5	2,93 €
ASM0508-04	5,0 ^{+0,030 +0,105}	8	4	0,5	3,03 €
ASM0508-05	5,0 ^{+0,030 +0,105}	8	5	0,5	3,03 €
ASM0508-08	5,0 ^{+0,030 +0,105}	8	8	0,5	4,06 €
ASM0509-05	5,0 ^{+0,030 +0,105}	9	5	0,5	4,02 €
ASM0509-08	5,0 ^{+0,030 +0,105}	9	8	0,5	3,03 €
ASM0608-10	6,0 ^{+0,030 +0,105}	8	10	0,5	3,17 €
ASM0609-06	6,0 ^{+0,030 +0,105}	9	6	0,5	4,06 €
ASM0610-04	6,0 ^{+0,030 +0,105}	10	4	0,5	4,06 €
ASM0610-06	6,0 ^{+0,030 +0,105}	10	6	0,5	3,03 €
ASM0610-10	6,0 ^{+0,030 +0,105}	10	10	0,5	4,21 €
ASM0612-06	6,0 ^{+0,030 +0,105}	12	6	0,5	4,21 €
ASM0612-10	6,0 ^{+0,030 +0,105}	12	10	0,5	3,24 €
ASM0710-05	7,0 ^{+0,040 +0,130}	10	5	0,5	3,17 €
ASM0710-08	7,0 ^{+0,040 +0,130}	10	8	0,5	3,17 €
ASM0810-06	8,0 ^{+0,040 +0,130}	10	6	0,5	3,12 €
ASM0810-08	8,0 ^{+0,040 +0,130}	10	8	0,5	4,12 €

Performance

- Max. continuous speed during dry operation:
Rotary 0.8 m/s
Oscillating 0.8 m/s
Linear 3 m/s
- Pressure resistance:
at 115°C 12 N/mm²
at 20°C 18 N/mm²
- Friction coefficient
dry 0.1-0.4
greased 0.09
water/oil 0.04
- Electrical resistance 10¹² /cm



DISCOUNTS

Qty.	1+	10+	25+	50+	100+	200+	500+
Disc	List	-10%	-25%	-45%	-60%	-65%	On request

Part number	Ød1	Ød2	b1 ^{h13}	f	Price each 1 to 9
ASM0810-10	8,0 ^{+0,040 +0,130}	10	10	0,5	3,17 €
ASM0811-08	8,0 ^{+0,040 +0,130}	11	8	0,5	3,17 €
ASM0811-12	8,0 ^{+0,040 +0,130}	11	12	0,5	3,24 €
ASM0812-06	8,0 ^{+0,040 +0,130}	12	6	0,5	3,17 €
ASM0812-08	8,0 ^{+0,040 +0,130}	12	8	0,5	3,17 €
ASM0812-10	8,0 ^{+0,040 +0,130}	12	10	0,5	4,21 €
ASM0812-12	8,0 ^{+0,040 +0,130}	12	12	0,5	4,21 €
ASM0814-06	8,0 ^{+0,040 +0,130}	14	6	0,5	3,24 €
ASM0814-10	8,0 ^{+0,040 +0,130}	14	10	0,5	3,35 €
ASM0912-14	9,0 ^{+0,040 +0,130}	12	14	0,5	3,24 €
ASM1014-06	10,0 ^{+0,040 +0,130}	14	6	0,5	3,12 €
ASM1014-08	10,0 ^{+0,040 +0,130}	14	8	0,5	3,12 €
ASM1014-10	10,0 ^{+0,040 +0,130}	14	10	0,5	4,21 €
ASM1014-16	10,0 ^{+0,040 +0,130}	14	16	0,5	3,24 €
ASM1016-06	10,0 ^{+0,040 +0,130}	16	6	0,5	3,17 €
ASM1016-10	10,0 ^{+0,040 +0,130}	16	10	0,5	3,24 €
ASM1016-16	10,0 ^{+0,040 +0,130}	16	16	0,5	3,35 €
ASM1214-20	12,0 ^{+0,050 +0,160}	14	20	0,8	4,12 €
ASM1216-15	12,0 ^{+0,050 +0,160}	16	15	0,8	3,24 €
ASM1216-20	12,0 ^{+0,050 +0,160}	16	20	0,8	4,33 €
ASM1218-08	12,0 ^{+0,050 +0,160}	18	8	0,8	4,21 €
ASM1218-10	12,0 ^{+0,050 +0,160}	18	10	0,8	3,17 €
ASM1218-15	12,0 ^{+0,050 +0,160}	18	15	0,8	3,39 €
ASM1218-20	12,0 ^{+0,050 +0,160}	18	20	0,8	3,43 €
ASM1416-10	14,0 ^{+0,050 +0,160}	16	10	0,8	3,03 €
ASM1416-15	14,0 ^{+0,050 +0,160}	16	15	0,8	3,12 €
ASM1416-20	14,0 ^{+0,050 +0,160}	16	20	0,8	3,54 €
ASM1420-10	14,0 ^{+0,050 +0,160}	20	10	0,8	3,43 €
ASM1420-15	14,0 ^{+0,050 +0,160}	20	15	0,8	3,43 €

Cylindrical polymer bush



ASM

For food and pharmaceutical industries

- Material: iglidur® A200
- Approved by the Food and Drug Administration (FDA)
- High resistance
- High abrasion resistance
- Suitable for slow oscillating, rotary or linear movements
- Working temp. -40°C to +80°C (short periods +170°C)
- Not sold individually, please contact us for details

Maintenance free



Assembly

- Recommended assembly tolerances shaft h9 housing bore-size H7
- Treated shaft 50 HRC
- Surface finish 1.5-3 µm

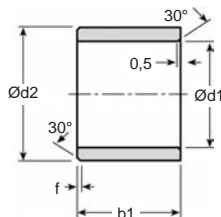
DISCOUNTS

Qty.	1+	10+	25+	50+	100+200+	500+
Disc.	List	-10%	-25%	-45%	-60%	-65%
						On request

Part number	Ød1	Ød2	b1 ^{H7}	f	Price each 1 to 9
ASM1420-20	14,0 ^{+0,050 +0,160}	20	20	0,8	3,43 €
ASM1517-10	15,0 ^{+0,050 +0,160}	17	10	0,8	3,12 €
ASM1517-15	15,0 ^{+0,050 +0,160}	17	15	0,8	3,17 €
ASM1521-10	15,0 ^{+0,050 +0,160}	21	10	0,8	3,43 €
ASM1521-15	15,0 ^{+0,050 +0,160}	21	15	0,8	3,43 €
ASM1521-20	15,0 ^{+0,050 +0,160}	21	20	0,8	3,61 €
ASM1618-12	16,0 ^{+0,050 +0,160}	18	12	0,8	3,12 €
ASM1618-20	16,0 ^{+0,050 +0,160}	18	20	0,8	3,35 €
ASM1620-20	16,0 ^{+0,050 +0,160}	20	20	0,8	3,39 €
ASM1620-25	16,0 ^{+0,050 +0,160}	20	25	0,8	4,84 €
ASM1622-12	16,0 ^{+0,050 +0,160}	22	12	0,8	3,54 €
ASM1622-15	16,0 ^{+0,050 +0,160}	22	15	0,8	3,61 €
ASM1622-16	16,0 ^{+0,050 +0,160}	22	16	0,8	3,65 €
ASM1622-20	16,0 ^{+0,050 +0,160}	22	20	0,8	4,80 €
ASM1622-25	16,0 ^{+0,050 +0,160}	22	25	0,8	4,93 €
ASM1824-12	18,0 ^{+0,050 +0,160}	24	12	0,8	3,54 €
ASM1824-20	18,0 ^{+0,050 +0,160}	24	20	0,8	3,86 €
ASM1824-30	18,0 ^{+0,050 +0,160}	24	30	0,8	4,12 €
ASM2023-15	20,0 ^{+0,065 +0,195}	23	15	0,8	3,43 €
ASM2023-20	20,0 ^{+0,065 +0,195}	23	20	0,8	3,43 €
ASM2025-20	20,0 ^{+0,065 +0,195}	25	20	0,8	4,80 €
ASM2025-30	20,0 ^{+0,065 +0,195}	25	30	0,8	5,10 €
ASM2026-15	20,0 ^{+0,065 +0,195}	26	15	0,8	3,81 €
ASM2026-20	20,0 ^{+0,065 +0,195}	26	20	0,8	4,93 €
ASM2026-30	20,0 ^{+0,065 +0,195}	26	30	0,8	5,31 €
ASM2226-15	22,0 ^{+0,065 +0,195}	26	15	0,8	3,43 €
ASM2228-10	22,0 ^{+0,065 +0,195}	28	10	0,8	3,54 €
ASM2228-15	22,0 ^{+0,065 +0,195}	28	15	0,8	3,81 €
ASM2228-20	22,0 ^{+0,065 +0,195}	28	20	0,8	3,90 €

Performance

- Max. continuous speed during dry operation:
Rotary 0.8 m/s
Oscillating 0.8 m/s
Linear 3 m/s
- Pressure resistance:
at 115°C 12 N/mm²
at 20°C 18 N/mm²
- Friction coefficient
dry 0.1-0.4
greased 0.09
water/oil 0.04
- Electrical resistance 10¹² /cm



DISCOUNTS

Qty.	1+	10+	25+	50+	100+	200+	500+
Disc	List	-10%	-25%	-45%	-60%	-65%	On request

Part number	Ød1	Ød2	b1 ^{h13}	f	Price each 1 to 9
ASM2228-30	22,0 ^{+0,065 +0,195}	28	30	0,8	4,33 €
ASM2430-15	24,0 ^{+0,065 +0,195}	30	15	0,8	3,86 €
ASM2430-20	24,0 ^{+0,065 +0,195}	30	20	0,8	4,02 €
ASM2430-30	24,0 ^{+0,065 +0,195}	30	30	0,8	4,43 €
ASM2528-12	25,0 ^{+0,065 +0,195}	28	12	0,8	3,12 €
ASM2528-20	25,0 ^{+0,065 +0,195}	28	20	0,8	3,54 €
ASM2530-20	25,0 ^{+0,065 +0,195}	30	20	0,8	3,86 €
ASM2530-30	25,0 ^{+0,065 +0,195}	30	30	0,8	4,27 €
ASM2530-40	25,0 ^{+0,065 +0,195}	30	40	0,8	4,53 €
ASM2532-20	25,0 ^{+0,065 +0,195}	32	20	1,2	4,43 €
ASM2532-30	25,0 ^{+0,065 +0,195}	32	30	1,2	5,06 €
ASM2532-40	25,0 ^{+0,065 +0,195}	32	40	1,2	5,57 €
ASM2630-20	26,0 ^{+0,065 +0,195}	30	20	1,2	4,53 €
ASM2632-30	26,0 ^{+0,065 +0,195}	30	30	1,2	5,10 €
ASM2734-20	27,0 ^{+0,065 +0,195}	34	20	1,2	4,53 €
ASM2734-30	27,0 ^{+0,065 +0,195}	34	30	1,2	5,15 €
ASM2734-40	27,0 ^{+0,065 +0,195}	34	40	1,2	5,75 €
ASM2833-20	28,0 ^{+0,065 +0,195}	33	20	1,2	4,12 €
ASM2836-20	28,0 ^{+0,065 +0,195}	36	20	1,2	4,74 €
ASM2836-30	28,0 ^{+0,065 +0,195}	36	30	1,2	5,31 €
ASM2836-40	28,0 ^{+0,065 +0,195}	36	40	1,2	6,03 €
ASM3038-20	30,0 ^{+0,065 +0,195}	38	20	1,2	4,84 €
ASM3038-30	30,0 ^{+0,065 +0,195}	38	30	1,2	5,57 €
ASM3038-40	30,0 ^{+0,065 +0,195}	38	40	1,2	6,28 €
ASM3240-20	32,0 ^{+0,080 +0,240}	40	20	1,2	4,89 €
ASM3240-30	32,0 ^{+0,080 +0,240}	40	30	1,2	5,71 €
ASM3240-40	32,0 ^{+0,080 +0,240}	40	40	1,2	6,39 €

Flanged polymer bush



AFM For food and pharmaceutical industries

- Material: iglidur® A200
- Approved by the Food and Drug Administration (FDA)
- High resistance
- High abrasion resistance
- Suitable for slow oscillating, rotary or linear movements
- Working temp. -40°C to +80°C (short periods +170°C)
- For mechanical performance characteristics, please see ASM bush
- Not sold individually, please contact us for details

Maintenance free



DISCOUNTS

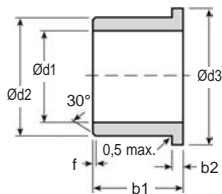
Qty.	1+	10+	25+	50+	100+200+	500+
Disc.	List -10%	-25%	-45%	-60%	-65%	On request

Part number	Ød1	Ød2	Ød3 ^{d13}	b1 ^{h13}	b2 ^{-0,14}	f	Stock*	Price each 1 to 9
AFM0103-02	1,0 ^{+0,020 +0,080}	3	5	2	1,0	0,5	✓	2,72 €
AFM0104-02	1,5 ^{+0,020 +0,080}	4	6	2	1,0	0,5	-	2,72 €
AFM0205-03	2,0 ^{+0,020 +0,080}	5	8	3	1,5	0,5	✓	3,81 €
AFM0206-03	2,5 ^{+0,020 +0,080}	6	9	3	1,5	0,5	-	2,77 €
AFM0306-04	3,0 ^{+0,020 +0,080}	6	9	4	1,5	0,5	✓	3,81 €
AFM0408-04	4,0 ^{+0,030 +0,105}	8	12	4	2,0	0,5	✓	3,90 €
AFM0408-06	4,0 ^{+0,030 +0,105}	8	12	6	2,0	0,5	✓	3,90 €
AFM0509-05	5,0 ^{+0,030 +0,105}	9	13	5	2,0	0,5	-	2,98 €
AFM0509-06	5,0 ^{+0,030 +0,105}	9	13	6	2,0	0,5	-	2,98 €
AFM0509-08	5,0 ^{+0,030 +0,105}	9	13	8	2,0	0,5	✓	4,02 €
AFM0610-04	6,0 ^{+0,030 +0,105}	10	14	4	2,0	0,5	✓	3,90 €
AFM0610-06	6,0 ^{+0,030 +0,105}	10	14	6	2,0	0,5	-	4,02 €
AFM0610-10	6,0 ^{+0,030 +0,105}	10	14	10	2,0	0,5	✓	3,03 €
AFM0612-06	6,0 ^{+0,030 +0,105}	12	14	6	3,0	0,5	-	3,03 €
AFM0612-10	6,0 ^{+0,030 +0,105}	12	14	10	3,0	0,5	✓	3,12 €
AFM0711-08	7,0 ^{+0,040 +0,130}	11	15	8	2,0	0,5	-	3,17 €
AFM0811-08	8,0 ^{+0,040 +0,130}	11	13	8	2,0	0,5	✓	4,21 €
AFM0812-06	8,0 ^{+0,040 +0,130}	12	16	6	2,0	0,5	✓	4,12 €
AFM0812-08	8,0 ^{+0,040 +0,130}	12	16	8	2,0	0,5	✓	2,50 €
AFM0812-12	8,0 ^{+0,040 +0,130}	12	16	12	2,0	0,5	✓	3,39 €
AFM0814-06	8,0 ^{+0,040 +0,130}	14	18	6	3,0	0,5	-	3,24 €
AFM0814-10	8,0 ^{+0,040 +0,130}	14	18	10	3,0	0,5	-	3,24 €
AFM0914-06	9,0 ^{+0,040 +0,130}	14	19	6	3,0	0,5	-	3,17 €
AFM0914-10	9,0 ^{+0,040 +0,130}	14	19	10	3,0	0,5	-	3,24 €
AFM0914-14	9,0 ^{+0,040 +0,130}	14	19	14	3,0	0,5	-	3,35 €
AFM10162010	10,0 ^{+0,040 +0,130}	16	20	10	3,0	0,5	✓	3,43 €
AFM1016-08	10,0 ^{+0,040 +0,130}	16	22	8	3,0	0,5	✓	4,38 €
AFM1016-10	10,0 ^{+0,040 +0,130}	16	22	10	3,0	0,5	-	3,43 €
AFM1016-16	10,0 ^{+0,040 +0,130}	16	22	16	3,0	0,5	✓	4,53 €
AFM1218-08	12,0 ^{+0,050 +0,160}	18	24	8	3,0	0,8	✓	3,43 €
AFM1218-10	12,0 ^{+0,050 +0,160}	18	22	10	3,0	0,8	-	3,43 €
AFM1218-12	12,0 ^{+0,050 +0,160}	18	24	12	3,0	0,8	✓	2,86 €
AFM1218-15	12,0 ^{+0,050 +0,160}	18	22	15	3,0	0,8	✓	4,57 €

*Depending on availability

Assembly

- Recommended assembly tolerances:
shaft h9
housing bore-size H7
- Treated shaft 50 HRC
- Surface finish 1.5-3 μm

**DISCOUNTS**

Qty.	1+	10+	25+	50+	100+	200+	500+
Disc.	List	-10%	-25%	-45%	-60%	-65%	On request

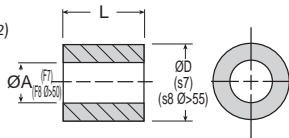
Part number	Ød1	Ød2	Ød3 ^{d13}	b1 ^{h13}	b2 ^{0,14}	f	Stock*	Price each 1 to 9
AFM1218-20	12 +0,050 +0,160	18	22	20	3,0	0,8	✓	4,69 €
AFM1420-10	14 +0,050 +0,160	20	25	10	3,0	0,8	-	3,61 €
AFM1420-15	14 +0,050 +0,160	20	25	15	3,0	0,8	-	4,74 €
AFM1420-20	14 +0,050 +0,160	20	25	20	3,0	0,8	✓	4,84 €
AFM1521-10	15 +0,050 +0,160	21	27	10	3,0	0,8	-	3,65 €
AFM1521-15	15 +0,050 +0,160	21	27	15	3,0	0,8	✓	4,80 €
AFM1521-20	15 +0,050 +0,160	21	27	20	3,0	0,8	✓	4,84 €
AFM1521-25	15 +0,050 +0,160	21	27	25	3,0	0,8	-	3,90 €
AFM1622-12	16 +0,050 +0,160	22	28	12	3,0	0,8	✓	3,65 €
AFM1622-15	16 +0,050 +0,160	22	28	15	3,0	0,8	✓	4,74 €
AFM1622-20	16 +0,050 +0,160	22	28	20	3,0	0,8	-	3,86 €
AFM1622-25	16 +0,050 +0,160	22	28	25	3,0	0,8	✓	4,99 €
AFM1824-12	18 +0,050 +0,160	24	30	12	3,0	0,8	✓	4,74 €
AFM1824-18	18 +0,050 +0,160	24	30	18	3,0	0,8	-	3,86 €
AFM1824-20	18 +0,050 +0,160	24	30	20	3,0	0,8	-	3,86 €
AFM1824-30	18 +0,050 +0,160	24	30	30	3,0	0,8	✓	5,31 €
AFM2026-15	20 +0,065 +0,195	26	32	15	3,0	0,8	✓	4,84 €
AFM2026-20	20 +0,065 +0,195	26	32	20	3,0	0,8	✓	5,15 €
AFM2026-30	20 +0,065 +0,195	26	32	30	3,0	0,8	✓	5,36 €
AFM2228-15	22 +0,065 +0,195	28	34	15	3,0	0,8	✓	5,10 €
AFM2228-20	22 +0,065 +0,195	28	34	20	3,0	0,8	-	4,27 €
AFM2228-30	22 +0,065 +0,195	28	34	30	3,0	0,8	-	5,67 €
AFM2430-15	24 +0,065 +0,195	30	36	15	3,0	0,8	-	4,06 €
AFM2430-20	24 +0,065 +0,195	30	36	20	3,0	0,8	-	4,27 €
AFM2430-30	24 +0,065 +0,195	30	36	30	3,0	0,8	-	4,84 €
AFM2532-20	25 +0,065 +0,195	32	38	20	4,0	0,8	✓	5,67 €
AFM2532-30	25 +0,065 +0,195	32	38	30	4,0	0,8	-	5,31 €
AFM2532-40	25 +0,065 +0,195	32	38	40	4,0	0,8	✓	6,75 €
AFM2734-20	27 +0,065 +0,195	34	40	20	4,0	0,8	-	4,84 €
AFM2734-30	27 +0,065 +0,195	34	40	30	4,0	0,8	-	5,42 €
AFM2734-40	27 +0,065 +0,195	34	40	40	4,0	0,8	-	5,88 €
AFM2836-20	28 +0,065 +0,195	36	42	20	4,0	0,8	-	5,06 €
AFM2836-30	28 +0,065 +0,195	36	42	30	4,0	0,8	-	5,71 €
AFM2836-40	28 +0,065 +0,195	36	42	40	4,0	0,8	-	6,39 €
AFM3038-20	30 +0,065 +0,195	38	44	20	4,0	0,8	✓	6,08 €
AFM3038-30	30 +0,065 +0,195	38	44	30	4,0	0,8	✓	6,87 €
AFM3038-40	30 +0,065 +0,195	38	44	40	4,0	0,8	✓	7,58 €
AFM3240-20	32 +0,080 +0,240	40	46	20	4,0	1,2	-	5,10 €
AFM3240-30	32 +0,080 +0,240	40	46	30	4,0	1,2	-	6,03 €
AFM3240-40	32 +0,080 +0,240	40	46	40	4,0	1,2	-	6,87 €

*Depending on availability

MET Self-lubricating, sintered bronze

- Bronze bush

- Material: Bronze BP 25 (FU-E10-62)
- Max. static load: 20N/mm²
- Max. dynamic load: 10N/mm²
- Max. linear speed: 6m/s
- Working temp. from -5°C to +90°C
- Saturating oil: T100
- Concentricity tolerance between A and D:
 ØA 20mm: tolerance 50µm - 20<ØA 35mm: tolerance 70µm
 ØA>35mm: tolerance 100µm
- Length tolerance:
 L 10mm: tolerance ±0.1mm - L>10mm: tolerance ±1%



DISCOUNTS

Qty.	1+	10+	25+	50+	100+	200+	500+
Disc.	List -20%	-30%	-40%	-50%	-60%	On request	

DISCOUNTS

Qty.	1+	10+	25+	50+	100+	200+	500+
Disc.	List -20%	-30%	-40%	-50%	-60%	On request	

Part number	ØA (F7/F8)	ØD (s7/s8)	L	Stock*	Price each 1 to 9
MET2-5-2	2	5	2	-	0,65 €
MET2-5-3	2	5	3	✓	0,60 €
MET3-6-4	3	6	4	✓	0,65 €
MET3-6-10	3	6	10	✓	0,71 €
MET4-7-4	4	7	4	✓	0,65 €
MET4-7-8	4	7	8	✓	0,71 €
MET4-7-12	4	7	12	✓	0,81 €
MET4-8-4	4	8	4	✓	0,71 €
MET4-8-8	4	8	8	✓	0,76 €
MET4-8-12	4	8	12	✓	0,93 €
MET5-8-5	5	8	5	✓	0,71 €
MET5-8-8	5	8	8	✓	0,71 €
MET5-8-10	5	8	10	✓	0,71 €
MET5-8-12	5	8	12	✓	0,81 €
MET5-8-16	5	8	16	✓	0,98 €
MET5-9-4	5	9	4	-	0,71 €
MET5-9-5	5	9	5	✓	0,71 €
MET5-9-8	5	9	8	✓	0,88 €
MET6-9-6	6	9	6	✓	0,71 €
MET6-9-10	6	9	10	✓	0,81 €
MET6-9-12	6	9	12	✓	0,93 €
MET6-9-16	6	9	16	✓	0,98 €
MET6-10-6	6	10	6	✓	0,76 €
MET6-10-10	6	10	10	✓	0,98 €
MET6-10-12	6	10	12	✓	0,98 €
MET6-10-16	6	10	16	✓	1,09 €

Part number	ØA (F7/F8)	ØD (s7/s8)	L	Stock*	Price each 1 to 9
MET6-12-6	6	12	6	✓	1,26 €
MET6-12-10	6	12	10	✓	1,14 €
MET6-12-12	6	12	12	✓	1,21 €
MET6-12-16	6	12	16	✓	1,26 €
MET7-10-5	7	10	5	✓	0,71 €
MET7-10-8	7	10	8	✓	0,88 €
MET7-10-10	7	10	10	✓	0,93 €
MET8-11-8	8	11	8	✓	0,81 €
MET8-11-12	8	11	12	✓	0,98 €
MET8-11-16	8	11	16	✓	1,04 €
MET8-11-20	8	11	20	✓	1,09 €
MET8-12-8	8	12	8	✓	0,98 €
MET8-12-12	8	12	12	✓	1,04 €
MET8-12-16	8	12	16	✓	1,14 €
MET8-12-20	8	12	20	✓	1,21 €
MET8-14-8	8	14	8	✓	1,14 €
MET8-14-12	8	14	12	✓	1,26 €
MET8-14-16	8	14	16	✓	1,47 €
MET8-14-20	8	14	20	-	on request
MET9-12-6	9	12	6	-	on request
MET9-12-10	9	12	10	-	on request
MET9-12-14	9	12	14	✓	1,04 €
MET10-13-10	10	13	10	✓	0,98 €
MET10-13-16	10	13	16	✓	1,14 €
MET10-13-20	10	13	20	✓	1,21 €
MET10-13-25	10	13	25	✓	1,37 €

*Depending on availability

DISCOUNTS

Qty.	1+	10+	25+	50+	100+	200+	500+
Disc.	List	-20%	-30%	-40%	-50%	-60%	On request

Part number	ØA (F7/F8)	ØD (s7/s8)	L	Stock*	Price each 1 to 9
MET10-14-10	10	14	10	✓	1,09 €
MET10-14-16	10	14	16	✓	1,31 €
MET10-14-20	10	14	20	✓	1,42 €
MET10-14-25	10	14	25	✓	1,59 €
MET10-15-10	10	15	10	✓	1,21 €
MET10-15-16	10	15	16	✓	1,37 €
MET10-15-20	10	15	20	✓	1,64 €
MET10-15-25	10	15	25	✓	1,97 €
MET10-16-10	10	16	10	✓	1,26 €
MET10-16-16	10	16	16	✓	1,64 €
MET10-16-20	10	16	20	✓	1,92 €
MET10-16-25	10	16	25	✓	2,35 €
MET12-15-12	12	15	12	✓	1,14 €
MET12-15-16	12	15	16	✓	1,26 €
MET12-15-20	12	15	20	✓	1,26 €
MET12-15-25	12	15	25	✓	1,42 €
MET12-16-12	12	16	12	✓	1,26 €
MET12-16-16	12	16	16	✓	1,37 €
MET12-16-20	12	16	20	✓	1,59 €
MET12-16-25	12	16	25	✓	1,85 €
MET12-17-12	12	17	12	✓	1,37 €
MET12-17-16	12	17	16	✓	1,59 €
MET12-17-20	12	17	20	-	on request
MET12-17-25	12	17	25	-	on request
MET12-18-12	12	18	12	✓	1,47 €
MET12-18-16	12	18	16	✓	1,92 €
MET12-18-20	12	18	20	✓	2,30 €
MET12-18-25	12	18	25	✓	3,12 €
MET14-18-14	14	18	14	✓	1,37 €
MET14-18-18	14	18	18	✓	1,59 €
MET14-18-22	14	18	22	✓	1,85 €
MET14-18-28	14	18	28	-	on request
MET14-20-14	14	20	14	✓	1,85 €
MET14-20-18	14	20	18	✓	2,30 €
MET14-20-22	14	20	22	✓	2,74 €
MET14-20-28	14	20	28	✓	3,39 €
MET15-19-16	15	19	16	✓	1,52 €
MET15-19-20	15	19	20	✓	1,80 €
MET15-19-25	15	19	25	✓	2,13 €
MET15-19-32	15	19	32	-	on request
MET15-21-16	15	21	16	✓	2,25 €
MET15-21-20	15	21	20	✓	2,68 €
MET15-21-25	15	21	25	✓	3,29 €
MET15-21-32	15	21	32	✓	4,00 €

*Depending on availability

DISCOUNTS

Qty.	1+	10+	25+	50+	100+	200+	500+
Disc.	List	-20%	-30%	-40%	-50%	-60%	On request

Part number	ØA (F7/F8)	ØD (s7/s8)	L	Stock*	Price each 1 to 9
MET16-20-16	16	20	16	✓	1,59 €
MET16-20-20	16	20	20	✓	1,92 €
MET16-20-25	16	20	25	✓	2,30 €
MET16-20-32	16	20	32	✓	2,84 €
MET16-22-16	16	22	16	✓	2,30 €
MET16-22-20	16	22	20	✓	2,79 €
MET16-22-25	16	22	25	✓	3,39 €
MET16-22-32	16	22	32	✓	4,26 €
MET18-22-18	18	22	18	✓	2,13 €
MET18-22-22	18	22	22	✓	2,25 €
MET18-22-28	18	22	28	-	on request
MET18-22-36	18	22	36	-	on request
MET18-24-18	18	24	18	-	on request
MET18-24-22	18	24	22	✓	3,34 €
MET18-24-28	18	24	28	-	on request
MET18-24-36	18	24	36	-	on request
MET18-25-18	18	25	18	✓	3,22 €
MET18-25-22	18	25	22	-	on request
MET18-25-28	18	25	28	-	on request
MET18-25-36	18	25	36	-	on request
MET20-24-16	20	24	16	✓	1,85 €
MET20-24-20	20	24	20	✓	2,25 €
MET20-24-25	20	24	25	✓	2,74 €
MET20-24-32	20	24	32	✓	3,39 €
MET20-25-16	20	25	16	✓	2,30 €
MET20-25-20	20	25	20	✓	2,79 €
MET20-25-25	20	25	25	✓	3,39 €
MET20-25-32	20	25	32	-	on request
MET20-26-16	20	26	16	✓	2,74 €
MET20-26-20	20	26	20	✓	3,34 €
MET20-26-25	20	26	25	-	on request
MET20-26-32	20	26	32	✓	5,04 €
MET20-27-16	20	27	16	-	on request
MET20-27-20	20	27	20	-	on request
MET20-27-25	20	27	25	-	on request
MET20-27-32	20	27	32	-	on request
MET20-28-16	20	28	16	✓	3,67 €
MET20-28-20	20	28	20	✓	4,43 €
MET20-28-25	20	28	25	-	on request
MET20-28-32	20	28	32	-	on request
MET22-27-18	22	27	18	✓	2,74 €
MET22-27-22	22	27	22	-	on request
MET22-27-28	22	27	28	✓	4,00 €
MET22-27-36	22	27	36	-	on request

MET

MET Self-lubricating, sintered bronze

- Bronze bushing

- Material: Bronze BP 25 (FU-E10-62)
- Max. static load: 20N/mm²
- Max. dynamic load: 10N/mm²
- Max. linear speed: 6m/s
- Working temp. from -5°C to +90°C
- Saturating oil: T100
- Concentricity tolerance between A and D:
 $\varnothing A > 20\text{mm}$: tolerance 50 μm - $20 < \varnothing A < 35\text{mm}$: tolerance 70 μm
 $\varnothing A > 35\text{mm}$: tolerance 100 μm
- Length tolerance:
 $L < 10\text{mm}$: tolerance $\pm 0.1\text{mm}$ - $L > 10\text{mm}$: tolerance $\pm 1\%$



DISCOUNTS

Qty.	1+	10+	25+	50+	100+	200+	500+
Disc.	List	-20%	-30%	-40%	-50%	-60%	On request

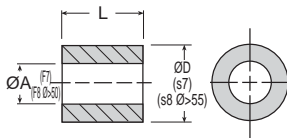
DISCOUNTS

Qty.	1+	10+	25+	50+
Disc.	List	-20%	-30%	On request

Part number	$\varnothing A$ (F7/F8)	$\varnothing D$ (s7/s8)	L	Stock*	Price each 1 to 9
MET22-28-18	22	28	18	-	on request
MET22-28-22	22	28	22	✓	3,88 €
MET22-28-28	22	28	28	✓	4,76 €
MET22-28-36	22	28	36	-	on request
MET22-29-18	22	29	18	-	on request
MET22-29-22	22	29	22	-	on request
MET22-29-28	22	29	28	-	on request
MET22-29-36	22	29	36	-	on request
MET25-30-20	25	30	20	✓	3,29 €
MET25-30-25	25	30	25	✓	4,05 €
MET25-30-32	25	30	32	-	on request
MET25-30-40	25	30	40	✓	6,24 €
MET25-32-20	25	32	20	✓	4,59 €
MET25-32-25	25	32	25	✓	6,13 €
MET25-32-32	25	32	32	✓	7,07 €
MET25-32-40	25	32	40	✓	8,65 €
MET28-32-22	28	32	22	-	on request
MET28-32-28	28	32	28	-	on request
MET28-32-36	28	32	36	-	on request
MET28-32-45	28	32	45	-	on request
MET28-33-22	28	33	22	✓	3,94 €
MET28-33-28	28	33	28	✓	4,87 €
MET28-33-36	28	33	36	-	on request
MET28-33-45	28	33	45	-	on request
MET28-36-22	28	36	22	✓	6,52 €
MET28-36-28	28	36	28	-	on request
MET28-36-36	28	36	36	✓	9,91 €
MET28-36-45	28	36	45	-	on request

Part number	$\varnothing A$ (F7/F8)	$\varnothing D$ (s7/s8)	L	Stock*	Price each 1 to 9
MET30-38-24	30	38	24	✓	4,08 €
MET30-38-30	30	38	30	✓	5,01 €
MET30-38-38	30	38	38	✓	6,21 €
MET32-38-20	32	38	20	✓	2,72 €
MET32-38-25	32	38	25	-	on request
MET32-38-32	32	38	32	✓	4,17 €
MET32-38-40	32	38	40	✓	5,13 €
MET32-38-50	32	38	50	✓	6,37 €
MET32-40-20	32	40	20	✓	3,62 €
MET32-40-25	32	40	25	-	on request
MET32-40-32	32	40	32	-	on request
MET32-40-40	32	40	40	✓	6,86 €
MET32-40-50	32	40	50	-	on request
MET35-44-22	35	44	22	✓	5,38 €
MET35-44-28	35	44	28	-	on request
MET35-44-35	35	44	35	✓	8,28 €
MET35-45-25	35	45	25	-	on request
MET35-45-35	35	45	35	-	on request
MET35-45-40	35	45	40	-	on request
MET35-45-50	35	45	50	✓	13,53 €
MET36-42-22	36	42	22	-	on request
MET36-42-28	36	42	28	-	on request
MET36-42-36	36	42	36	✓	5,69 €
MET36-42-45	36	42	45	-	on request
MET36-45-22	36	45	22	-	on request
MET36-45-28	36	45	28	-	on request
MET36-45-36	36	45	36	-	on request
MET36-45-45	36	45	45	-	on request

*Depending on availability



DISCOUNTS

Qty.	1+	10+	25+	50+
Disc.	List	-20%	-30%	On request

DISCOUNTS

Qty.	1+	10+	25+	50+
Disc.	List	-20%	-30%	On request

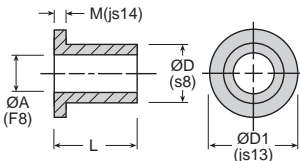
Part number	ØA (F7/F8)	ØD (s7/s8)	L	Stock	Price each 1 to 9
MET38-44-25	38	44	25	-	on request
MET38-44-35	38	44	35	✓	6,24 €
MET38-44-45	38	44	45	-	on request
MET40-46-25	40	46	25	-	on request
MET40-46-32	40	46	32	✓	5,65 €
MET40-46-40	40	46	40	✓	6,98 €
MET40-46-50	40	46	50	✓	8,59 €
MET40-50-25	40	50	25	-	on request
MET40-50-32	40	50	32	✓	9,52 €
MET40-50-40	40	50	40	✓	12,02 €
MET40-50-50	40	50	50	-	on request
MET45-51-28	45	51	28	✓	6,12 €
MET45-51-36	45	51	36	-	on request
MET45-51-45	45	51	45	✓	8,99 €
MET45-51-56	45	51	56	-	on request
MET45-55-35	45	55	35	-	on request
MET45-55-55	45	55	55	-	on request
MET45-55-65	45	55	65	-	on request
MET45-56-28	45	56	28	-	on request
MET45-56-36	45	56	36	-	on request
MET45-56-45	45	56	45	-	on request
MET45-56-56	45	56	56	-	on request
MET50-56-32	50	56	32	-	on request
MET50-56-40	50	56	40	-	on request
MET50-56-50	50	56	50	-	on request

Part number	ØA (F7/F8)	ØD (s7/s8)	L	Stock	Price each 1 to 9
MET50-56-63	50	56	63	✓	15,02 €
MET50-60-32	50	60	32	-	on request
MET50-60-40	50	60	40	-	on request
MET50-60-50	50	60	50	-	23,73 €
MET50-60-63	50	60	63	-	on request
MET55-65-40	55	65	40	✓	24,29 €
MET55-65-55	55	65	55	-	on request
MET55-65-70	55	65	70	-	on request
MET60-70-50	60	70	50	-	on request
MET60-70-60	60	70	60	-	on request
MET60-70-90	60	70	90	-	on request
MET60-70-120	60	70	120	-	on request
MET60-72-50	60	72	50	-	on request
MET60-72-60	60	72	60	-	on request
MET60-72-70	60	72	70	-	on request
MET60-80-90	60	80	90	-	91,96 €
MET60-80-120	60	80	120	-	122,06 €
MET63-70-40	63	70	40	-	on request
MET63-70-50	63	70	50	-	on request
MET70-80-90	70	80	90	-	68,29 €
MET70-80-120	70	80	120	-	81,36 €
MET80-100-120	80	100	120	-	159,04 €
MET100-120-120	100	120	120	-	194,45 €
MET110-125-120	110	125	120	-	153,08 €
MET125-150-120	125	150	120	-	300,47 €

*Depending on availability

- Bronze bushing

- Material: Bronze BP 25 (FU-E10-62)
- Max. static load: 20N/mm²
- Max. dynamic load: 10N/mm²
- Max. linear speed: 6m/s
- Working temp. from -5°C to +90°C
- Saturating oil: T100
- Concentricity tolerance between A and D:
 $\varnothing A$ 20mm: tolerance 50 μ m
 $20 < \varnothing A$ 35mm: tolerance 70 μ m
 $\varnothing A > 35$ mm: tolerance 100 μ m
- Length tolerance
 $L \leq 10$ mm: tolerance ± 0.1 mm
 $L > 10$ mm: tolerance $\pm 1\%$



DISCOUNTS

Qty.	1+	10+	25+	50+	100+	200+	500+
Disc.	List	-20%	-30%	-40%	-50%	-60%	On request

DISCOUNTS

Qty.	1+	10+	25+	50+	100+	200+	500+
Disc.	List	-20%	-30%	-40%	-50%	-60%	On request

Part number	ØA (F8)	ØD (s8)	L	ØD1 (js13)	M (js14)	Stock*	Price each 1 to 9
METC3-6-4	3	6	4	9	1,5	✓	0,81 €
METC3-6-6	3	6	6	9	1,5	✓	0,93 €
METC3-6-10	3	6	10	9	1,5	✓	0,98 €
METC4-8-4	4	8	4	12	2,0	✓	0,98 €
METC4-8-8	4	8	8	12	2,0	✓	1,04 €
METC4-8-12	4	8	12	12	2,0	✓	1,09 €
METC6-10-6	6	10	6	14	2,0	✓	1,04 €
METC6-10-10	6	10	10	14	2,0	✓	1,14 €
METC6-10-16	6	10	16	14	2,0	✓	1,21 €
METC8-12-8	8	12	8	16	2,0	✓	1,14 €
METC8-12-12	8	12	12	16	2,0	✓	1,21 €
METC8-12-16	8	12	16	16	2,0	✓	1,26 €
METC9-14-6	9	14	6	19	2,5	-	on request
METC9-14-10	9	14	10	19	2,5	-	on request
METC9-14-14	9	14	14	19	2,5	✓	1,42 €
METC10-13-10	10	13	10	16	1,5	✓	1,09 €
METC10-13-16	10	13	16	16	1,5	✓	1,21 €
METC10-13-20	10	13	20	16	1,5	✓	1,26 €
METC10-15-10	10	15	10	20	2,5	✓	1,26 €
METC10-15-16	10	15	16	20	2,5	✓	1,59 €
METC10-15-20	10	15	20	20	2,5	✓	1,85 €
METC10-16-8	10	16	8	22	3,0	✓	1,37 €
METC10-16-10	10	16	10	22	3,0	✓	1,52 €
METC10-16-16	10	16	16	22	3,0	✓	2,02 €

Part number	ØA (F8)	ØD (s8)	L	ØD1 (js13)	M (js14)	Stock*	Price each 1 to 9
METC12-15-12	12	15	12	18	1,5	✓	1,21 €
METC12-15-16	12	15	16	18	1,5	✓	1,31 €
METC12-15-20	12	15	20	18	1,5	✓	1,37 €
METC12-17-12	12	17	12	22	2,5	✓	1,52 €
METC12-17-16	12	17	16	22	2,5	✓	1,85 €
METC12-17-20	12	17	20	22	2,5	✓	2,18 €
METC12-17-25	12	17	25	22	2,5	✓	2,58 €
METC12-18-8	12	18	8	24	3,0	✓	1,47 €
METC12-18-12	12	18	12	24	3,0	✓	1,85 €
METC12-18-20	12	18	20	24	3,0	✓	2,63 €
METC14-18-14	14	18	14	22	2,0	✓	1,47 €
METC14-18-18	14	18	18	22	2,0	✓	1,75 €
METC14-18-22	14	18	22	22	2,0	✓	2,08 €
METC14-20-14	14	20	14	26	3,0	✓	2,30 €
METC14-20-18	14	20	18	26	3,0	✓	2,74 €
METC14-20-22	14	20	22	26	3,0	✓	3,17 €
METC14-20-28	14	20	28	26	3,0	✓	3,83 €
METC15-19-16	15	19	16	23	2,0	✓	1,64 €
METC15-19-20	15	19	20	23	2,0	✓	1,97 €
METC15-19-25	15	19	25	23	2,0	-	on request
METC15-21-16	15	21	16	27	3,0	✓	2,68 €
METC15-21-20	15	21	20	27	3,0	-	on request
METC15-21-25	15	21	25	27	3,0	✓	3,67 €
METC15-21-32	15	21	32	27	3,0	✓	4,43 €

*Depending on availability

DISCOUNTS

Qty.	1+	10+	25+	50+	100+	200+	500+
	Disc.	List -20%	-30%	-40%	-50%	-60%	On request

Part number	ØA (F8)	ØD (s8)	L	ØD1 (js13)	M (js14)	Stock*	Price each 1 to 9
METC16-20-16	16	20	16	24	2,0	✓	1,75 €
METC16-20-20	16	20	20	24	2,0	✓	2,79 €
METC16-20-25	16	20	25	24	2,0	✓	2,46 €
METC16-22-16	16	22	16	28	3,0	✓	2,79 €
METC16-22-20	16	22	20	28	3,0	✓	3,29 €
METC16-22-25	16	22	25	28	3,0	✓	3,88 €
METC16-22-32	16	22	32	28	3,0	✓	4,26 €
METC18-22-18	18	22	18	26	2,0	✓	2,08 €
METC18-22-22	18	22	22	26	2,0	✓	2,58 €
METC18-22-28	18	22	28	26	2,0	✓	2,96 €
METC18-24-18	18	24	18	30	3,0	✓	3,34 €
METC18-24-22	18	24	22	30	3,0	✓	3,83 €
METC18-24-28	18	24	28	30	3,0	✓	4,59 €
METC20-24-16	20	24	16	28	2,0	✓	2,08 €
METC20-24-20	20	24	20	28	2,0	✓	2,46 €
METC20-24-25	20	24	25	28	2,0	✓	2,89 €
METC20-26-16	20	26	16	32	3,0	✓	3,83 €
METC20-26-20	20	26	20	32	3,0	✓	3,83 €
METC20-26-25	20	26	25	32	3,0	✓	4,59 €
METC20-26-32	20	26	32	32	3,0	✓	6,41 €
METC22-27-18	22	27	18	32	2,5	✓	3,06 €
METC22-27-22	22	27	22	32	2,5	-	on request
METC22-27-28	22	27	28	32	2,5	-	on request
METC22-28-15	22	28	15	34	3,0	✓	3,29 €
METC22-28-20	22	28	20	34	3,0	✓	4,11 €
METC22-28-25	22	28	25	34	3,0	-	on request
METC22-28-30	22	28	30	34	3,0	-	on request
METC22-29-18	22	29	18	36	3,5	-	on request
METC22-29-22	22	29	22	36	3,5	✓	5,48 €
METC22-29-28	22	29	28	36	3,5	✓	6,62 €
METC22-29-36	22	29	36	36	3,5	✓	7,89 €
METC25-30-20	25	30	20	35	2,5	✓	3,72 €
METC25-30-25	25	30	25	35	2,5	✓	4,43 €
METC25-30-32	25	30	32	35	2,5	✓	5,75 €
METC25-32-20	25	32	20	39	3,5	✓	6,36 €
METC25-32-25	25	32	25	39	3,5	-	on request
METC25-32-32	25	32	32	39	3,5	✓	7,94 €
METC28-33-22	28	33	22	38	2,5	✓	4,38 €
METC28-33-28	28	33	28	38	2,5	-	on request
METC28-33-36	28	33	36	38	2,5	-	on request
METC28-36-22	28	36	22	44	4,0	-	on request
METC28-36-28	28	36	28	44	4,0	✓	9,15 €
METC28-36-36	28	36	36	44	4,0	✓	11,11 €

*Depending on availability

DISCOUNTS

Qty.	1+	10+	25+	50+
	Disc.	List -20%	-30%	On request

Part number	ØA (F8)	ØD	L	ØD1 (js13)	M (js14)	Stock*	Price each 1 to 9
METC30-38-20	30	38	20	46	4,0	✓	4,73 €
METC30-38-25	30	38	25	46	4,0	✓	4,91 €
METC30-38-30	30	38	30	46	4,0	✓	5,69 €
METC32-38-20	32	38	20	44	3,0	✓	3,49 €
METC32-38-25	32	38	25	44	3,0	✓	4,11 €
METC32-38-32	32	38	32	44	3,0	✓	8,11 €
METC32-40-20	32	40	20	48	4,0	✓	4,42 €
METC32-40-25	32	40	25	48	4,0	-	on request
METC32-40-30	32	40	30	48	4,0	✓	6,21 €
METC32-40-32	32	40	32	48	4,0	✓	6,33 €
METC36-42-22	36	42	22	48	3,0	✓	7,28 €
METC36-42-28	36	42	28	48	3,0	✓	4,97 €
METC36-42-36	36	42	36	48	3,0	-	on request
METC36-45-22	36	45	22	54	4,5	-	on request
METC36-45-28	36	45	28	54	4,5	-	on request
METC36-45-36	36	45	36	54	4,5	-	on request
METC40-46-25	40	46	25	52	3,0	✓	5,01 €
METC40-46-32	40	46	32	52	3,0	✓	6,18 €
METC40-46-40	40	46	40	52	3,0	✓	7,60 €
METC40-50-25	40	50	25	60	5,0	✓	9,30 €
METC40-50-32	40	50	32	60	5,0	✓	11,28 €
METC40-50-40	40	50	40	60	5,0	✓	12,89 €
METC45-51-28	45	51	28	57	3,0	✓	6,12 €
METC45-51-36	45	51	36	57	3,0	-	on request
METC45-51-45	45	51	45	57	3,0	-	on request
METC45-56-28	45	56	28	67	5,5	-	on request
METC45-56-36	45	56	36	67	5,5	-	on request
METC45-56-45	45	56	45	67	5,5	-	on request
METC50-56-32	50	56	32	62	3,0	-	on request
METC50-56-40	50	56	40	62	3,0	-	on request
METC50-56-50	50	56	50	62	3,0	-	on request
METC50-60-32	50	60	32	70	5,0	✓	14,40 €
METC50-60-40	50	60	40	70	5,0	✓	23,73 €
METC50-60-50	50	60	50	70	5,0	-	on request
METC60-70-50	60	70	50	80	5,0	✓	63,62 €
METC60-70-60	60	70	60	80	5,0	-	on request



METAFRAM® Self lubricating bushes

Assembly instructions

USING A MANDREL

(Hardened carbon steel, polished finish, surface hardness 60RC)

Tolerance \varnothing **m6**

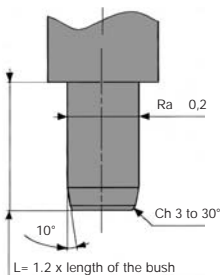
Fit the bush using a press ensuring that the correct diameter mandrel is used so that:

- the bushing is inserted correctly so as to ensure correct seating
- the tolerances of the bore are still correct after fitting

INSERTING FORCE

Values are given assuming the tolerances are as follows ; mandrel **m6**, bore **H7** with **Ra 3,2** and considered to be rigid* : **100daN/cm²** (equivalent surface area at \varnothing cm from exterior of bushing)

* What do we mean by rigid? It is a bore or hole in steel (or possibly cast iron) where the wall thickness is a least 3 times the diameter of the bushing



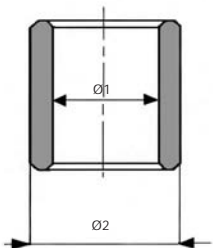
BUSH BEFORE ASSEMBLY

\varnothing interior - $\varnothing 1$ cylindrical bush **F7**
(F8 for $\varnothing 1 > 50$ mm)

\varnothing interior - $\varnothing 1$ flanged bush **F8**

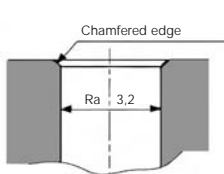
\varnothing interior - $\varnothing 2$ cylindrical bush **S7**
(S8 for $\varnothing 2 > 50$ mm)

\varnothing interior - $\varnothing 2$ flanged bush **S8**



METAFRAM® Self lubricating bushes

Technical information

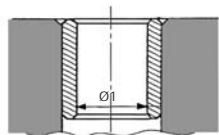


STEEL HOUSING (in rigid material)

Tolerance \varnothing H7

The tightness between the bush and the hole and the final tolerances of the bore of the bush have been calculated for a rigid steel housing.

For all other types of support (non rigid or other materials), the tightness may vary and practical tests should be carried out to confirm the bore tolerances.



BUSH AFTER PRESS FITTING

\varnothing interior – $\varnothing 1$ cylindrical bush H7
(H8 pour $\varnothing 1 > 50\text{mm}$)

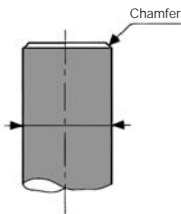
\varnothing interior – $\varnothing 1$ flanged bush H8

SHAFT TO BE USED

Mechanical properties of steel depending on the type of bush
For a BP25 bush

Steel with a minimum hardness of 80 kg/mm²

Ra 0.6



\varnothing tolerance f7

Where bushes are fitted without additional support (Overmolding or gluing), use an h7 toleranced shaft rather than f7.

OPERATING CLEARANCES

Running fit H7/f7 or H8/f7

Assembly instructions should be followed to endure the correct operation of the self lubricating bush (lubricating, wear, rubbing).

Self-lubricating Oilite® bushes

Technical information

Metric tolerances

PLAIN BUSHES

For length L = 13
Concentricity:
D compared to d
D < = 50mm, IT9
D > = 50mm, IT10

FLANGED BUSHES

For length L = 13
Flange thickness M = 13
Flange diameter F = 13
Concentricity:
D concerning d
D < = 50mm, IT9
D > = 50mm, IT10

FLANGED BUSHES	
External diameter	r max.
<12	0.30
<12 <30	0.60
<30	0.80

CHAMFERS: There are 45° chamfers on the internal and external edges at each end of the bush.

PLEASE NOTE: here are two different European standards that define the dimensions and tolerances of bearings.

Bearings conforming to two different standards may be incompatible and when used together may seize or may have their life expectancies reduced. It is therefore important to select bushes, housings, fitting pins and shafts with great care.

Specifications

Material	Code Sint-	Density (g/cm ³)	Porosity (%)	Chemical composition				Compression strength (N/mm)	Hardness (HB)
				C (%)	Cu (%)	Sn (%)	autres (%)		
Bronze	FU-E10-62	6.4 nom	>22	<0.3	Balance	8.5/11.5	>2	>140	25

Tolerances of cylindrical and flanged bushings

SIZES (mm)		STANDARD TOLERANCES (13)			
DE	A	IT9	IT10	+	-
-	3	0.025	-	0.070	0.070
3	6	0.030	-	0.090	0.090
6	10	0.036	-	0.110	0.110
10	18	0.043	-	0.135	0.135
18	30	0.052	-	0.165	0.165
30	50	0.062	-	0.195	0.195
50	80	-	0.120	0.230	0.230

Self-lubricating Oilite® bushes

Technical information

LUBRICATION: Standard OILITE bearings are impregnated with highly refined mineral oil conforming to ISO VG (SAE 30) having a high viscosity and containing anti-oxidant, anti-rust and defoaming additives.

The oil should be replenished after 1000 hours of use or annually. These intervals can be extended for bearings with relatively thick walls and shortened for low porosity bearings. Bearings running submerged in oil or subject to oil-splash will not require refilling.

The standard operating temperature range is -9°C to 70°C.

FITTING: before fitting make sure that all sharp edges are removed from the housing and shaft. The bearing must be free from grit and dust. Wash in oil if storage conditions suspect, if they have been held in stock for more than a year or stored in contact with an absorbent material.

Always use a steady pressure to insert the bearing. Never use a hammer.

Shafts should ideally be hardened to approximately HRC 60 and ground to a surface roughness of $Ra=0.25\mu m$.

The standard metric range of OILITE bearings conforming to ISO 2795 are made to G7/s7 limits of tolerance. These bearings when fitted into a rigid H7 housing using an m5 fitting pin, will give an H7 toleranced bore, which is suitable for use with an f7 shaft.

STORAGE: OILITE bearings can be stored for considerable periods at room temperature without deterioration or loss of oil if kept in a metal or other non-absorbent container. Proximity to heat could cause oil loss by evaporation, in which case re-oiling will be necessary before fitting.

RE-OILING: after machining of the bearing, or following oil loss during storage, immerse in high quality mineral oil conforming to ISO VG 60 or ISO VG 150 (SAE30 or SAE40) at 80°C to 100°C for 10 to 15 minutes and then cool in cold oil.

MATERIAL EQUIVALENTS

MATERIAL	GRADE	ISO 5755/1 1987	UK BS5600 PART 5 SECTION 5.1 1988	FRANCE NF 150 5755/1 A95-771-1	GERMANY DIN 30 910 PART 3	USA		
						M.P.I.F. STAND.35	S.A.E.	A.S.T.M.
OILITE	MB01-1	P4011Z	P4011Z	FU-E10-60	Sint A50	CT-1000-K19	1140	B438 Grd 1 Type 1
BRONZE	MB01-2	P4012Z	P4012Z	FU-E10-64		CT-1000-K26	1141	B438 Grd 1 Type 2

- **Bronze bearing**
- Conforms to ISO 2795
- Tolerance G7/s7 G8/s8
- Materials: sintered bronze saturated with mineral oil
- Static load 50 N/mm²
- Dynamic load 15 N/mm²
- Working temp. -9°C to +70°C
- Fits bore-sizes H7



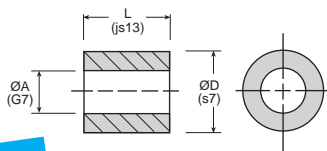
DISCOUNTS

Qty.	1+	10+	25+	50+	100+	200+	500+
Disc.	List	-20%	-30%	-40%	-50%	-60%	On request

Part number	ØA	ØD	L	Stock*	Price each
					1 to 9
QM3-2	Ø2	5	2	-	3,65 €
QM3-3	Ø2	5	3	-	3,65 €
QM5-3	Ø3	5	3	-	3,65 €
QM5-4	Ø3	5	4	-	3,65 €
QM6-3	Ø3	6	3	-	3,65 €
QM6-4	Ø3	6	4	-	3,65 €
QM7-4	Ø4	7	4	✓	3,95 €
QM7-6	Ø4	7	6	✓	3,95 €
QM8-4	Ø4	8	4	-	4,20 €
QM8-6	Ø4	8	6	-	4,20 €
QM9-8	Ø5	8	8	-	4,31 €
QM10-5	Ø5	9	5	-	4,39 €
QM10-8	Ø5	9	8	-	4,39 €
QM11-4	Ø6	9	4	-	4,39 €
QM11-6	Ø6	9	6	-	4,39 €
QM11-10	Ø6	9	10	✓	4,39 €
QM12-4	Ø6	10	4	-	4,49 €
QM12-6	Ø6	10	6	-	4,49 €
QM12-10	Ø6	10	10	✓	4,49 €
QM13-5	Ø7	10	5	-	4,39 €
QM13-8	Ø7	10	8	-	4,39 €
QM13-10	Ø7	10	10	-	4,39 €
QM14-10	Ø7	11	10	-	4,70 €
QM15-6	Ø8	11	6	-	4,31 €
QM15-8	Ø8	11	8	✓	4,31 €
QM15-12	Ø8	11	12	✓	4,31 €
QM16-6	Ø8	12	6	✓	4,62 €
QM16-8	Ø8	12	8	-	4,62 €
QM16-12	Ø8	12	12	✓	4,62 €
QM16-16	Ø8	12	16	✓	4,62 €

Part number	ØA	ØD	L	Stock*	Price each
					1 to 9
QM16-20	Ø8	12	20	✓	4,62 €
QM17-10	Ø9	12	10	-	4,39 €
QM17-14	Ø9	12	14	-	4,39 €
QM18-6	Ø9	14	6	-	4,87 €
QM18-10	Ø9	14	10	-	4,87 €
QM18-14	Ø9	14	14	-	4,87 €
QM19-8	Ø10	14	8	-	4,87 €
QM19-10	Ø10	14	10	✓	4,87 €
QM19-16	Ø10	14	16	✓	4,87 €
QM20-8	Ø10	16	8	-	5,71 €
QM20-10	Ø10	16	10	-	5,71 €
QM20-16	Ø10	16	16	-	5,71 €
QM21-8	Ø12	16	8	-	5,43 €
QM21-12	Ø12	16	12	✓	5,43 €
QM21-20	Ø12	16	20	✓	6,93 €
QM22-8	Ø12	18	8	✓	5,17 €
QM22-12	Ø12	18	12	-	5,17 €
QM22-20	Ø12	18	20	✓	7,68 €
QM23-10	Ø14	18	10	-	4,87 €
QM23-14	Ø14	18	14	-	4,87 €
QM23-20	Ø14	18	20	-	7,04 €
QM24-10	Ø14	20	10	-	5,17 €
QM24-14	Ø14	20	14	-	7,22 €
QM24-20	Ø14	20	20	-	8,88 €
QM25-10	Ø15	19	10	-	6,81 €
QM25-15	Ø15	19	15	-	6,81 €
QM25-25	Ø15	19	25	-	8,00 €
QM26-15	Ø15	21	15	-	7,50 €
QM26-25	Ø15	21	25	-	8,68 €

*Depending on availability



European standard versions also available - see METC range

DISCOUNTS

Qty.	1+	10+	25+	50+	100+	200+	500+
Disc.	List	-20%	-30%	-40%	-50%	-60%	On request

Part number	ØA	ØD	L	Stock*	Price each 1 to 9
QM27-12	Ø16	20	12	-	6,34 €
QM27-16	Ø16	20	16	-	11,10 €
QM27-25	Ø16	20	25	-	7,68 €
QM28-12	Ø16	22	12	-	9,51 €
QM28-16	Ø16	22	16	-	9,56 €
QM28-25	Ø16	22	25	-	10,30 €
QM29-12	Ø18	22	12	-	9,37 €
QM29-18	Ø18	22	18	-	9,37 €
QM29-30	Ø18	22	30	-	10,85 €
QM30-18	Ø18	24	18	-	10,10 €
QM30-30	Ø18	24	30	-	11,20 €
QM31-15	Ø20	25	15	-	12,05 €
QM31-20	Ø20	25	20	-	12,05 €
QM31-25	Ø20	25	25	-	13,50 €
QM32-15	Ø20	26	15	✓	12,26 €
QM32-20	Ø20	26	20	-	12,26 €
QM32-25	Ø20	26	25	-	15,27 €
QM33-15	Ø22	28	15	-	12,77 €
QM33-20	Ø22	28	20	-	14,62 €
QM33-25	Ø22	28	25	-	17,19 €
QM33-30	Ø22	28	30	-	17,98 €
QM34-20	Ø22	32	20	-	21,82 €
QM34-50	Ø22	32	50	-	48,11 €
QM35-20	Ø25	30	20	-	14,20 €
QM35-25	Ø25	30	25	-	16,86 €
QM35-30	Ø25	30	30	-	19,40 €
QM35-50	Ø25	30	50	-	31,28 €
QM36-25	Ø25	35	25	-	20,70 €
QM36-35	Ø25	35	35	-	25,64 €
QM36-50	Ø25	35	50	-	33,53 €

Part number	ØA	ØD	L	Stock*	Price each 1 to 9
QM37-20	Ø30	35	20	✓	14,35 €
QM37-25	Ø30	35	25	-	16,19 €
QM37-30	Ø30	35	30	-	17,90 €
QM38-25	Ø30	40	25	-	21,35 €
QM38-35	Ø30	40	35	-	30,30 €
QM38-50	Ø30	40	50	-	38,81 €
QM44-30	Ø40	46	30	-	29,86 €
QM44-40	Ø40	46	40	-	34,94 €
QM44-50	Ø40	46	50	-	39,98 €
QM45-25	Ø40	50	25	-	29,97 €
QM45-30	Ø40	50	30	-	34,06 €
QM45-35	Ø40	50	35	-	37,53 €
QM45-40	Ø40	50	40	-	41,71 €
QM45-50	Ø40	50	50	-	51,42 €
QM45-60	Ø40	50	60	-	60,88 €
QM46-35	Ø45	51	35	-	36,98 €
QM46-45	Ø45	51	45	-	42,03 €
QM46-55	Ø45	51	55	-	47,30 €
QM47-35	Ø45	55	35	-	44,82 €
QM47-45	Ø45	55	45	-	58,19 €
QM47-55	Ø45	55	55	-	75,57 €
QM48-30	Ø50	60	30	-	57,99 €
QM48-35	Ø50	60	35	-	64,64 €
QM48-40	Ø50	60	40	-	70,60 €
QM48-50	Ø50	60	50	-	83,51 €
QM49-50	Ø60	68	50	-	70,13 €
QM49-60	Ø60	68	60	-	83,62 €
QM50-50	Ø60	72	50	-	98,47 €
QM50-60	Ø60	72	60	-	106,76 €
QM50-70	Ø60	72	70	-	115,61 €

*Depending on availability

Cylindrical Oilite® bush

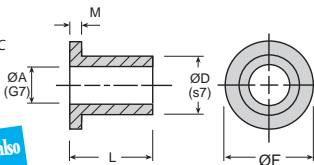


QFM

Self-lubricating sintered bronze

- Bronze bearing

- Conforms to ISO 2795
- Tolerance G7/s7 G8/s8
- Materials: sintered bronze saturated with mineral oil
- Static load 50 N/mm²
- Dynamic load 15 N/mm²
- Working temp. -9°C to +70°C
- Fits bore-sizes H7



European standard versions also available - see METC range

DISCOUNTS

Qty.	1+	10+	25+	50+	100+	200+	500+
Disc.	List	-20%	-30%	-40%	-50%	-60%	On request

Part number	ØA	L	ØD	ØF	M	Stock*	Price each 1 to 9
QFM3	Ø2	3	5	8	1,5	-	4,06 €
QFM5	Ø3	4	6	9	1,5	✓	4,06 €
QFM6-4	Ø4	4	8	12	2,0	✓	4,20 €
QFM6-6	Ø4	6	8	12	2,0	✓	4,20 €
QFM7-4	Ø5	4	9	13	2,0	-	4,87 €
QFM7-5	Ø5	5	9	13	2,0	✓	4,87 €
QFM7-8	Ø5	8	9	13	2,0	✓	4,87 €
QFM8-4	Ø6	4	10	14	2,0	✓	4,87 €
QFM8-6	Ø6	6	10	14	2,0	✓	4,87 €
QFM8-10	Ø6	10	10	14	2,0	✓	4,87 €
QFM9-8	Ø7	8	11	15	2,0	-	4,87 €
QFM10-6	Ø8	6	12	16	2,0	✓	5,24 €
QFM10-8	Ø8	8	12	16	2,0	✓	5,24 €
QFM10-12	Ø8	12	12	16	2,0	✓	3,14 €
QFM12-8	Ø10	8	16	22	3,0	✓	5,93 €
QFM12-10	Ø10	10	16	22	3,0	✓	5,93 €
QFM12-16	Ø10	16	16	22	3,0	✓	7,37 €
QFM13-8	Ø12	8	18	24	3,0	✓	6,81 €
QFM13-12	Ø12	12	18	24	3,0	✓	6,81 €
QFM13-20	Ø12	20	18	24	3,0	✓	8,88 €
QFM14-10	Ø14	10	20	26	3,0	-	7,50 €
QFM14-14	Ø14	14	20	26	3,0	✓	7,50 €
QFM14-20	Ø14	20	20	26	3,0	✓	9,17 €
QFM15-10	Ø15	10	21	27	3,0	-	8,68 €
QFM15-15	Ø15	15	21	27	3,0	✓	8,68 €
QFM15-20	Ø15	20	21	27	3,0	-	11,09 €
QFM15-25	Ø15	25	21	27	3,0	-	11,09 €

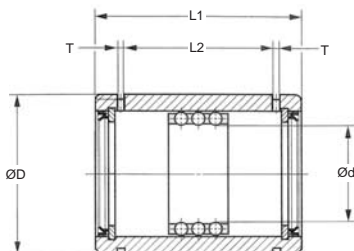
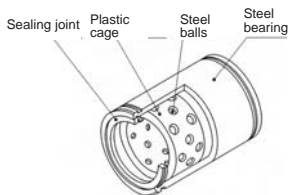
Part number	ØA	L	ØD	ØF	M	Stock*	Price each 1 to 9
QFM16-12	Ø16	12	22	28	3,0	✓	9,17 €
QFM16-16	Ø16	16	22	28	3,0	✓	9,17 €
QFM16-25	Ø16	25	22	28	3,0	✓	12,37 €
QFM17-12	Ø18	12	24	30	3,0	-	9,74 €
QFM17-18	Ø18	18	24	30	3,0	-	12,63 €
QFM17-30	Ø18	30	24	30	3,0	-	17,12 €
QFM18-15	Ø20	15	26	32	3,0	✓	11,43 €
QFM18-20	Ø20	20	26	32	3,0	✓	13,67 €
QFM18-25	Ø20	25	26	32	3,0	✓	17,03 €
QFM18-30	Ø20	30	26	32	3,0	-	19,87 €
QFM20-20	Ø25	20	30	39	3,5	✓	14,44 €
QFM20-25	Ø25	25	30	39	3,5	✓	26,43 €
QFM20-32	Ø25	32	30	39	3,5	-	20,25 €
QFM24-20	Ø30	20	38	46	4,0	-	19,72 €
QFM24-25	Ø30	25	38	46	4,0	-	22,33 €
QFM24-30	Ø30	30	38	46	4,0	-	26,87 €
QFM27-25	Ø35	25	45	55	5,0	-	29,56 €
QFM27-35	Ø35	35	45	55	5,0	-	38,07 €
QFM27-40	Ø35	40	45	55	5,0	-	42,81 €
QFM30-25	Ø40	25	50	60	5,0	-	50,34 €
QFM30-30	Ø40	30	50	60	5,0	-	52,91 €
QFM30-40	Ø40	40	50	60	5,0	-	57,99 €
QFM30-50	Ø40	50	50	60	5,0	-	62,40 €
QFM32-32	Ø50	32	60	70	5,0	-	56,39 €
QFM32-40	Ø50	40	60	70	5,0	-	60,57 €
QFM32-50	Ø50	50	60	70	5,0	-	69,84 €

*Depending on availability

- Permits both linear and rotary movement
- Sealed
- Material: steel
- Stroke: should not exceed 80% of the max. stroke length indicated in the table
- Max. temperature: +120°C

Assembly

- Use shafts with hardness 58-64 HRC, Ra 0.2
- When mounted vertically use:
 - shaft: k5, m5
 - housing: H6, H7
- Otherwise use
 - shaft: n5, p6
 - housing: J6, J7



DISCOUNTS

Qty.	1+	5+	10+	25+
Disc.	List	-6%	-12%	On request

Part number	Ød	ØD	L1	L2	T	Max. stroke (mm)	Static load Co (N)	Dynamic load C (N)	Weight (g)	Stock	Price each 1 to 4
STU-8	8	15	24	12,3	1,5	14	211	315	16,5	-	28,81 €
STU-10	10	19	30	15,5	1,5	16	466	659	30,7	✓	30,77 €
STU-12	12	23	32	17,1	1,5	17	822	1110	45,0	-	32,77 €
STU-16	16	28	37	21,1	1,5	24	998	1230	74,0	✓	36,55 €
STU-20	20	32	45	26,8	2,0	32	1250	1390	107,0	✓	38,38 €
STU-25	25	37	45	26,8	2,0	32	1430	1450	121,0	✓	50,03 €
STU-30	30	45	65	45,1	2,5	65	3160	3110	215,0	✓	61,35 €
STU-35	35	52	70	50,1	2,5	75	3550	3290	342,0	-	72,57 €
STU-40	40	60	80	59,9	2,5	91	4810	4340	529,0	✓	91,77 €

*Depending on availability

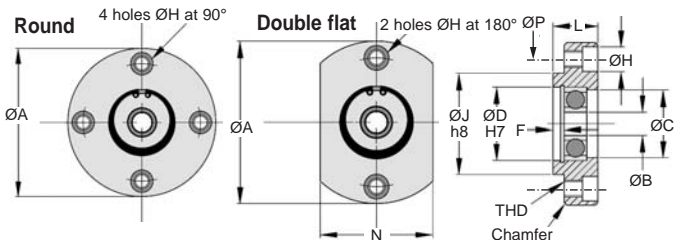
BH02 Bearing retained by with circlips

- **Bearing mounted in housing with circlips**
- Housing supplied with bearing
- ZZ bearing (with shielding)
- Materials:
Housing: zinc plated steel (60C40), natural finish
Bearing: steel
Circlips: steel

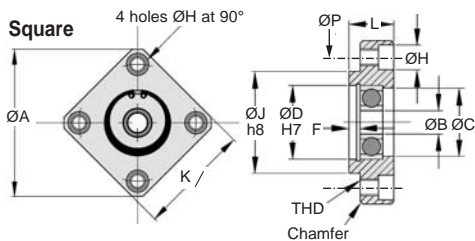


Options

- Flange with bearing glued in (BH01)



Part number			ØB	ØD	ØC	L	ØA	ØP
Round	Double flat	Square						
BH0200-40-623	BH0201-40-623	BH0202-40-623	3	Ø10x7Depth.	Ø8,5	11	40	30
BH0200-40-634	BH0201-40-634	BH0202-40-634	4	Ø16x8Depth.	Ø14,0	11	40	30
BH0200-40-625	BH0201-40-625	BH0202-40-625	5	Ø16x8Depth.	Ø14,0	11	40	30
BH0200-40-606	BH0201-40-606	BH0202-40-606	6	Ø17x9Depth.	Ø15,0	11	40	30
BH0200-58-608	BH0201-58-608	BH0202-58-608	8	Ø22x11Depth.	Ø19,5	16	58	46
BH0200-58-6000	BH0201-58-6000	BH0202-58-6000	10	Ø26x12Depth.	Ø24,0	16	58	46
BH0200-58-6201	BH0201-58-6201	BH0202-58-6201	12	Ø32x14Depth.	Ø28,0	16	58	46
BH0200-94-6202	BH0201-94-6202	BH0202-94-6202	15	Ø35x18Depth.	Ø33,0	25	94	78
BH0200-94-6003	BH0201-94-6003	BH0202-94-6003	17	Ø35x17Depth.	Ø33,0	25	94	78
BH0200-94-6004	BH0201-94-6004	BH0202-94-6004	20	Ø42x19Depth.	Ø38,0	25	94	78
BH0200-94-6005	BH0201-94-6005	BH0202-94-6005	25	Ø47x19Depth.	Ø43,0	25	94	78
BH0200-94-6006	BH0201-94-6006	BH0202-94-6006	30	Ø55x20Depth.	Ø50,0	25	94	78



DISCOUNTS

Qty.	1+	6+	20+	40+
Disc.	List -15%	-20%	On request	

$\varnothing H$	THD	K /	Bearing	N	$\varnothing J$	F	Price each 1 to 5		
							Round	Double flat	Square
$\varnothing 7,5 \times 4,5$ Depth. (M4 screw)	$\varnothing 4,20$ (M5)	30	623ZZ	24	$\varnothing 22 \times 3$	3	43,67 €	49,36 €	51,71 €
$\varnothing 7,5 \times 4,5$ Depth. (M4 screw)	$\varnothing 4,20$ (M5)	30	634ZZ	24	$\varnothing 22 \times 3$	3	43,67 €	49,36 €	51,71 €
$\varnothing 7,5 \times 4,5$ Depth. (M4 screw)	$\varnothing 4,20$ (M5)	30	625ZZ	24	$\varnothing 22 \times 3$	3	43,67 €	49,36 €	51,71 €
$\varnothing 7,5 \times 4,5$ Depth. (M4 screw)	$\varnothing 4,20$ (M5)	30	606ZZ	24	$\varnothing 22 \times 3$	3	43,67 €	49,36 €	51,71 €
$\varnothing 9,5 \times 5,5$ Depth. (M5 screw)	$\varnothing 5,20$ (M6)	44	608ZZ	40	$\varnothing 36 \times 4$	4	59,41 €	61,27 €	86,19 €
$\varnothing 9,5 \times 5,5$ Depth. (M5 screw)	$\varnothing 5,20$ (M6)	44	6000ZZ	40	$\varnothing 36 \times 4$	4	59,41 €	61,27 €	86,19 €
$\varnothing 9,5 \times 5,5$ Depth. (M5 screw)	$\varnothing 5,20$ (M6)	44	6201ZZ	40	$\varnothing 36 \times 4$	4	59,41 €	61,27 €	86,19 €
$\varnothing 15,0 \times 8,5$ Depth. (M8 screw)	$\varnothing 8,50$ (M10)	77	6202ZZ	67	$\varnothing 66 \times 6$	7	86,14 €	97,22 €	137,97 €
$\varnothing 15,0 \times 8,5$ Depth. (M8 screw)	$\varnothing 8,50$ (M10)	77	6003ZZ	67	$\varnothing 66 \times 6$	7	86,14 €	97,22 €	137,97 €
$\varnothing 15,0 \times 8,5$ Depth. (M8 screw)	$\varnothing 8,50$ (M10)	77	6004ZZ	67	$\varnothing 66 \times 6$	7	86,11 €	97,22 €	137,97 €
$\varnothing 15,0 \times 8,5$ Depth. (M8 screw)	$\varnothing 8,50$ (M10)	77	6005ZZ	67	$\varnothing 66 \times 6$	7	86,14 €	97,22 €	137,97 €
$\varnothing 15,0 \times 8,5$ Depth. (M8 screw)	$\varnothing 8,50$ (M10)	77	6006ZZ	67	$\varnothing 66 \times 6$	7	86,14 €	97,22 €	137,97 €

Single housed bearing



BH01

With tight fitting bearing

- Housing with tight fitting bearing

- ZZ bearing (with shielding)

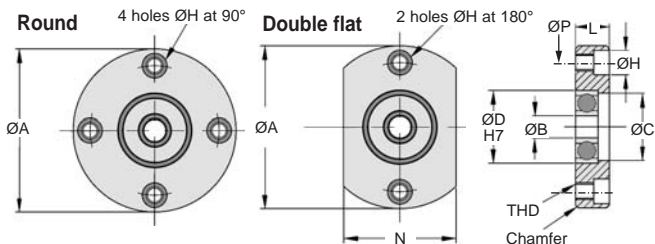
- Materials:

Housing: zinc plated steel (60C40), natural finish

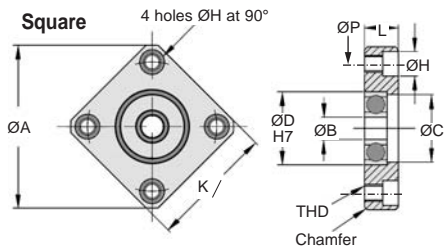
Bearing: steel

Options

- Flange with bearing retained by circlips (BH02)



Part number			ØB	ØD	ØC	L	ØA
Round	Double flat	Square					
BH0100-40-623	BH0101-40-623	BH0102-40-623	3	Ø10x4Depth.	Ø8,5	8	40
BH0100-40-634	BH0101-40-634	BH0102-40-634	4	Ø16x5Depth.	Ø14,0	8	40
BH0100-40-625	BH0101-40-625	BH0102-40-625	5	Ø16x5Depth.	Ø14,0	8	40
BH0100-40-606	BH0101-40-606	BH0102-40-606	6	Ø17x6Depth.	Ø15,0	8	40
BH0100-58-608	BH0101-58-608	BH0102-58-608	8	Ø22x7Depth.	Ø19,5	12	58
BH0100-58-6000	BH0101-58-6000	BH0102-58-6000	10	Ø26x8Depth.	Ø24,0	12	58
BH0100-58-6201	BH0101-58-6201	BH0102-58-6201	12	Ø32x10Depth.	Ø28,0	12	58
BH0100-94-6202	BH0101-94-6202	BH0102-94-6202	15	Ø35x11Depth.	Ø33,0	18	94
BH0100-94-6003	BH0101-94-6003	BH0102-94-6003	17	Ø35x10Depth.	Ø33,0	18	94
BH0100-94-6004	BH0101-94-6004	BH0102-94-6004	20	Ø42x12Depth.	Ø38,0	18	94
BH0100-94-6005	BH0101-94-6005	BH0102-94-6005	25	Ø47x12Depth.	Ø43,0	18	94
BH0100-94-6006	BH0101-94-6006	BH0102-94-6006	30	Ø55x13Depth.	Ø50,0	18	94



DISCOUNTS

Qty.	1+	6+	20+	40+
Disc.	List -15%	-20%	On request	

ØP	ØH	THD	K /	Bearing	N	Price each 1 to 5		
						Round	Double flat	Square
30	Ø7,5x4,5Depth. (M4 screw)	Ø4,20 (M5)	30	623ZZ	24	40,02 €	45,27 €	47,37 €
30	Ø7,5x4,5Depth. (M4 screw)	Ø4,20 (M5)	30	634ZZ	24	40,02 €	45,27 €	47,37 €
30	Ø7,5x4,5Depth. (M4 screw)	Ø4,20 (M5)	30	625ZZ	24	40,02 €	45,27 €	47,37 €
30	Ø7,5x4,5Depth. (M4 screw)	Ø4,20 (M5)	30	606ZZ	24	40,02 €	45,27 €	47,37 €
46	Ø9,5x5,5Depth. (M5 screw)	Ø5,20 (M6)	44	608ZZ	40	66,36 €	56,16 €	59,26 €
46	Ø9,5x5,5Depth. (M5 screw)	Ø5,20 (M6)	44	6000ZZ	40	66,36 €	56,16 €	59,26 €
46	Ø9,5x5,5Depth. (M5 screw)	Ø5,20 (M6)	44	6201ZZ	40	66,36 €	56,16 €	59,26 €
78	Ø15,0x8,5Depth. (M8 screw)	Ø8,50 (M10)	77	6202ZZ	67	105,25 €	118,86 €	126,44 €
78	Ø15,0x8,5Depth. (M8 screw)	Ø8,50 (M10)	77	6003ZZ	67	105,25 €	118,86 €	126,44 €
78	Ø15,0x8,5Depth. (M8 screw)	Ø8,50 (M10)	77	6004ZZ	67	105,25 €	118,86 €	126,44 €
78	Ø15,0x8,5Depth. (M8 screw)	Ø8,50 (M10)	77	6005ZZ	67	105,25 €	118,86 €	126,44 €
78	Ø15,0x8,5Depth. (M8 screw)	Ø8,50 (M10)	77	6006ZZ	67	105,25 €	118,86 €	126,44 €

Motor gearboxes

Excellent Price / Quality ratio



Tel. +33(0)4 37 496 496
www.hpceurope.com



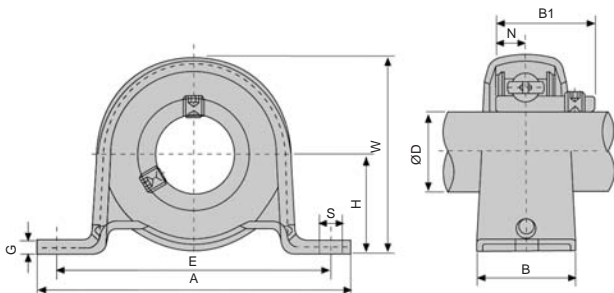
2 mounting points

BPP

- Pressed sheet flanged bearing
- Material : steel

Uses

- Simple mounted bearing for light loads



Part number	Load (kN)	
	Dynamic C	Static Co
BPP201	9,2	4,48
BPP202	9,2	4,48
BPP203	9,2	4,48
BPP204	12,2	6,30
BPP205	13,3	7,46
BPP206	18,5	10,80
BPP207	24,5	14,60

DISCOUNTS

Qty.	1+	6+	20+	40+	60+
Disc.	Prix -10%	-15%	-20%	On request	

Part number	ØD	H	A	E	B	S	G	W	Bolt size	B1	N	Weight (kg)	Stock	Price each 1 to 5
BPP201	12	22,2	86	68	25	9,5	3,2	43,8	M8	22	6,0	0,19	✓	8,28 €
BPP202	15	22,2	86	68	25	9,5	3,2	43,8	M8	22	6,0	0,19	-	8,31 €
BPP203	17	22,2	86	68	25	9,5	3,2	43,8	M8	22	6,0	0,19	-	8,63 €
BPP204	20	25,4	98	76	32	9,5	3,2	50,5	M8	25	7,0	0,23	✓	9,64 €
BPP205	25	28,6	108	86	32	11,5	4,0	56,6	M10	27	7,5	0,28	✓	10,18 €
BPP206	30	33,3	117	95	38	11,5	4,0	66,3	M10	30	8,0	0,47	✓	13,99 €
BPP207	35	39,7	129	106	42	11,5	4,6	78,0	M10	32	8,5	0,57	✓	16,39 €

*Depending on availability

Sheet steel flanged bearing for **light loads**



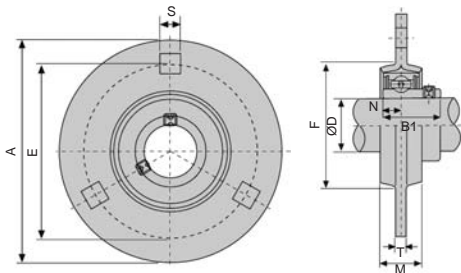
BPF

3 mounting points

- Pressed sheet steel
- Material : steel

Uses

- Simple mounted bearing for light loads



Part number	Load (kN)	
	Dynamic C	Static Co
BPF201	9,2	4,48
BPF202	9,2	4,48
BPF203	9,2	4,48
BPF204	12,2	6,30
BPF205	13,3	7,46
BPF206	18,5	10,80
BPF207	24,5	14,60
BPF208	27,7	17,00

DISCOUNTS

Qty.	1+	6+	20+	40+	60+
Disc.	Prix -10%	-15%	-20%	-20%	On request

Part number	ØD	A	E	M	S	T	F (min)	Bolt size	B1	N	Weight (kg)	Stock [†]	Price each 1 to 5
BPF201	12	81	63,5	14	7,1	4,0	49	M6	22	6,0	0,27	✓	8,34 €
BPF202	15	81	63,5	14	7,1	4,0	49	M6	22	6,0	0,27	✓	8,42 €
BPF203	17	81	63,5	14	7,1	4,0	49	M6	22	6,0	0,27	-	8,72 €
BPF204	20	90	71,5	16	9,0	4,0	56	M8	25	7,0	0,33	✓	10,30 €
BPF205	25	95	76,0	18	9,0	4,0	60	M8	27	7,5	0,38	✓	10,84 €
BPF206	30	113	90,5	18	11,0	5,2	71	M10	30	8,0	0,62	-	15,91 €
BPF207	35	122	100,0	20	11,0	5,2	81	M10	32	8,5	0,82	-	18,30 €

[†]Depending on availability



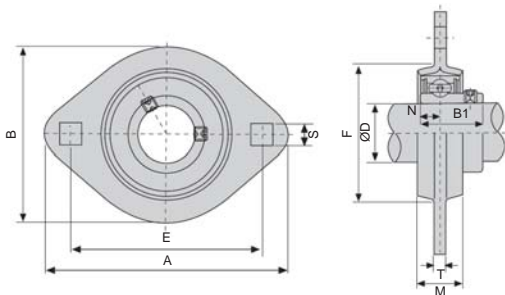
2 mounting points

BPFL

- Pressed sheet steel
- Material : steel

Uses

- Simple mounted bearing for light loads



Part number	Load (kN)	
	Dynamic C	Static Co
BPFL201	9,2	4,48
BPFL202	9,2	4,48
BPFL203	9,2	4,48
BPFL204	12,2	6,30
BPFL205	13,3	7,46
BPFL206	18,5	10,80
BPFL207	24,5	14,60
BPFL208	27,7	17,00

DISCOUNTS

Qty.	1+	6+	20+	40+	60+
Disc.	Prix -10%	-15%	-20%	On request	

Part number	ØD	A	E	B	M	S	T	F (min)	Bolt size	B1	N	Weight (kg)	Stock ¹	Price each 1 to 5
BPFL201	12	81	63,5	59	14	7,1	4,0	49	M6	22	6,0	0,19	✓	8,03 €
BPFL202	15	81	63,5	59	14	7,1	4,0	49	M6	22	6,0	0,19	✓	8,06 €
BPFL203	17	81	63,5	59	14	7,1	4,0	49	M6	22	6,0	0,19	-	8,37 €
BPFL204	20	90	71,5	67	16	9,0	4,0	56	M8	25	7,0	0,24	-	8,82 €
BPFL205	25	95	76,0	71	18	9,0	4,0	60	M8	27	7,5	0,28	✓	9,86 €
BPFL206	30	113	90,5	84	18	11,0	5,2	71	M10	30	8,0	0,38	-	13,01 €
BPFL207	35	122	100,0	94	20	11,0	5,2	81	M10	32	8,5	0,50	-	15,32 €

¹Depending on availability

