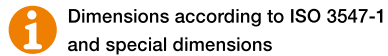
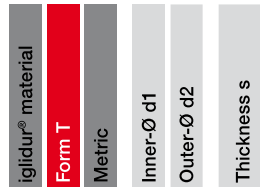


Order key

Type Dimensions [mm]

X T M-0620-015



Dimensions according to ISO 3547-1 and special dimensions

Imperial dimensions available  
► From page 1446

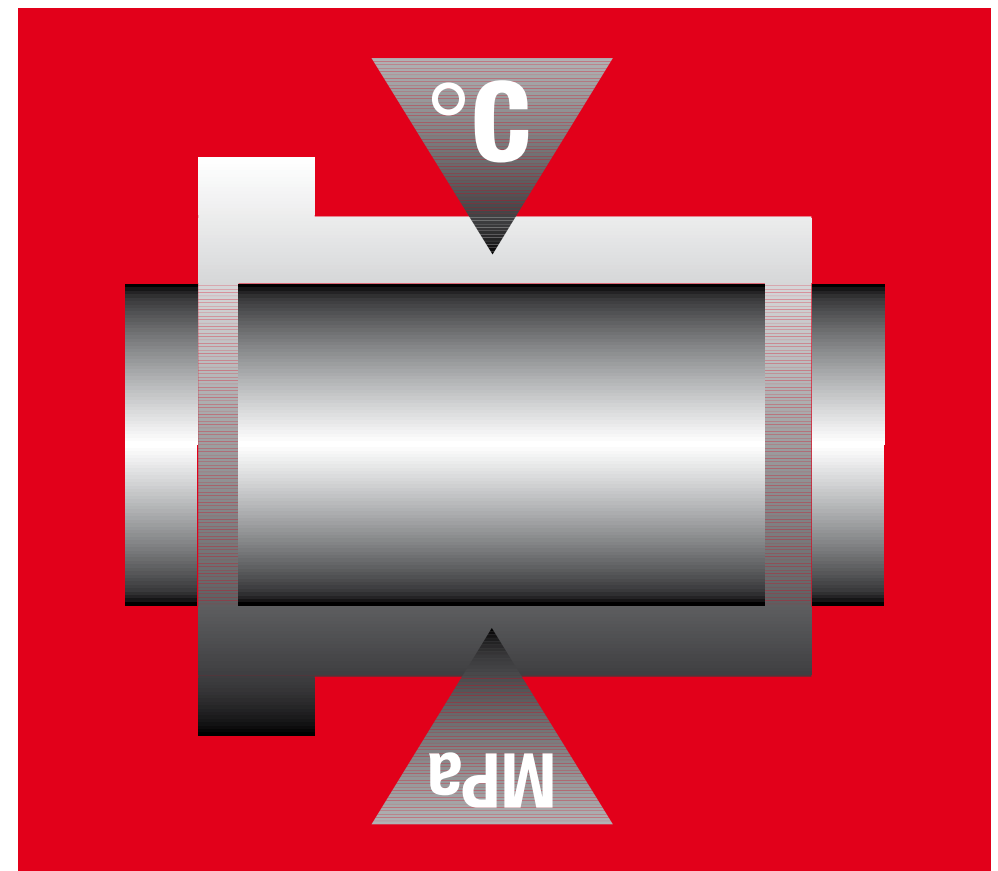
## Dimensions [mm]

d1	d2	s	d4	d5	h	d6	Part No.
+0.25	-0.25	-0.05	-0.12 +0.12	+0.375 +0.125	+0.2 -0.2	+0.12	
6.0	20.0	1.5	13.0	1.5	1.0	20.0	XTM-0620-015
8.0	18.0	1.5	13.0	1.5	1.0	18.0	XTM-0818-015
8.0	29.0	1.5	<sup>4)</sup>	<sup>4)</sup>	1.0	29.0	XTM-0829-015
8.0	30.0	1.5	<sup>4)</sup>	<sup>4)</sup>	1.0	30.0	XTM-0830-015
10.0	18.0	1.0	<sup>4)</sup>	<sup>4)</sup>	0.7	18.0	XTM-1018-010
12.0	24.0	1.5	18.0	1.5	1.0	24.0	XTM-1224-015
14.0	26.0	1.5	20.0	2.0	1.0	26.0	XTM-1426-015
15.0	22.0	0.8	<sup>4)</sup>	<sup>4)</sup>	0.5	22.0	XTM-1522-008
15.0	24.0	1.5	19.5	1.5	1.0	24.0	XTM-1524-015
16.0	30.0	1.5	22.0	2.0	1.0	30.0	XTM-1630-015
18.0	32.0	1.5	25.0	2.0	1.0	32.0	XTM-1832-015
20.0	36.0	1.5	28.0	3.0	1.0	36.0	XTM-2036-015
22.0	38.0	1.5	30.0	3.0	1.0	38.0	XTM-2238-015
24.0	42.0	1.5	33.0	3.0	1.0	42.0	XTM-2442-015
26.0	44.0	1.5	35.0	3.0	1.0	44.0	XTM-2644-015
28.0	48.0	1.5	38.0	4.0	1.0	48.0	XTM-2848-015
32.0	54.0	1.5	43.0	4.0	1.0	54.0	XTM-3254-015
38.0	62.0	1.5	50.0	4.0	1.0	62.0	XTM-3862-015
42.0	66.0	1.5	54.0	4.0	1.0	66.0	XTM-4266-015
48.0	74.0	2.0	61.0	4.0	1.5	74.0	XTM-4874-020
52.0	78.0	2.0	65.0	4.0	1.5	78.0	XTM-5278-020
62.0	90.0	2.0	76.0	4.0	1.5	90.0	XTM-6290-020

<sup>4)</sup> Design without fixing bore

Even more dimensions from stock

More than 300 dimensions are now available. Search online for your required bearing.

► [www.igus.eu/iglidur-specialbearings](http://www.igus.eu/iglidur-specialbearings)

## Extremely long service life under extreme conditions – iglidur® Z

Excellent wear resistance especially with high loads

High thermal resistance

For extreme loads

For high surface speeds

Resistant to edge loads

Lubrication and maintenance-free

Standard range from stock



Excellent wear resistance especially with high loads

High thermal resistance

For extreme loads

For high surface speeds

Resistant to edge loads

Extremely high compressive strength coupled with high elasticity enables iglidur® Z bearings to attain their prominent features in association with soft shafts, edge loads and impacts. The bearings are at the same time suitable for temperatures up to +250 °C.



**When to use it?**

- For continuous temperatures up to +250 °C long-term or +310 °C short-term
- When high wear resistance is required especially under high radial loads
- For high surface speeds
- For edge loading in connection with high surface pressures



**When not to use it?**

- For low loads and temperatures
  - ▶ iglidur® P, page 113
- When a cost-effective general purpose bearing is required
  - ▶ iglidur® G, page 79
- When electrically conductive bearings are needed
  - ▶ iglidur® F, page 449
  - ▶ iglidur® H, page 313
  - ▶ iglidur® H370, page 305

**Typical application areas**

- Construction machinery industry
- Machine building
- Textile industry
- Aerospace engineering
- Glass industry



**Available from stock**

Detailed information about delivery time online.



**Block pricing online**

No minimum order value. From batch size 1.



**Max. +250 °C**  
**Min. -100 °C**



**Ø 4–120 mm**

More dimensions upon request



**Imperial dimensions available**

▶ From page 1391



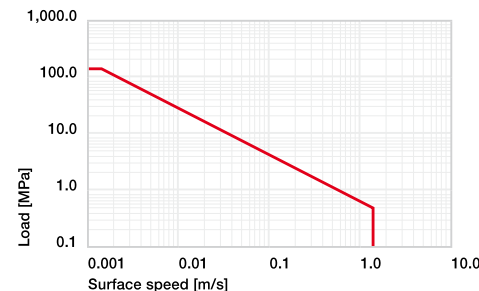
**Online product finder**

▶ [www.igus.eu/iglidur-finder](http://www.igus.eu/iglidur-finder)

**Material properties**

General properties	Unit	iglidur® Z	Testing method
Density	g/cm³	1.40	
Colour		brown	
Max. moisture absorption at +23 °C/50 % r.h.	% weight	0.3	DIN 53495
Max. water absorption	% weight	1.1	
Coefficient of sliding friction, dynamic, against steel	μ	0.06–0.14	
pv value, max. (dry)	MPa · m/s	0.84	
Mechanical properties			
Flexural modulus	MPa	2,400	DIN 53457
Flexural strength at +20 °C	MPa	95	DIN 53452
Compressive strength	MPa	65	
Max. recommended surface pressure (+20 °C)	MPa	150	
Shore-D hardness		81	DIN 53505
Physical and thermal properties			
Max. long-term application temperature	°C	+250	
Max. short-term application temperature	°C	+310	
Min. long-term application temperature	°C	-100	
Heat conductivity	W/m · K	0.62	ASTM C 177
Coefficient of thermal expansion (at +23 °C)	K <sup>-1</sup> · 10 <sup>-6</sup>	4	DIN 53752
Electrical properties			
Specific contact resistance	Ωcm	> 10 <sup>11</sup>	DIN IEC 93
Surface resistance	Ω	> 10 <sup>11</sup>	DIN 53482

**Table 01: Material properties table**



**Diagram 01: Permissible pv values for iglidur® Z bearings with a wall thickness of 1 mm dry running against a steel shaft, at +20 °C, mounted in a steel housing**

**Moisture absorption**

The humidity absorption of iglidur® Z bearings amounts to about 0.3% weight in standard climatic conditions. The saturation limit in water is 1.1% weight.

▶ **Diagram, [www.igus.eu/z-moisture](http://www.igus.eu/z-moisture)**

**Vacuum**

In vacuum, moisture is released as a vapour. Only dehumidified bearings made from iglidur® Z are suitable for vacuum.

**Radiation resistance**

Plain bearings made from iglidur® Z are resistant to radiation up to an intensity of 1 · 10<sup>5</sup> Gy.

**UV resistance**

Exposed to UV radiation, iglidur® Z bearings lose approximately 50% of their tribological properties (wear resistance).

Medium	Resistance
Alcohols	0
Hydrocarbons	+
Greases, oils without additives	+
Fuels	+
Diluted acids	+
Strong acids	-
Diluted alkalines	+
Strong alkalines	-

**+ resistant 0 conditionally resistant – not resistant**

**All data given at room temperature [+20 °C]**

**Table 02: Chemical resistance**

▶ **Chemical table, page 1478**

In addition to iglidur® X, iglidur® Z is among the best selling iglidur® high-temperature materials. Specifically worth noting is the outstanding wear behaviour under extreme conditions (high loads and temperatures).

### Mechanical properties

With increasing temperatures, the compressive strength of iglidur® Z plain bearings decreases. The diagram 02 shows this inverse relationship. The recommended maximum surface pressure is a mechanical material parameter. No conclusions regarding the tribological properties can be drawn from this.

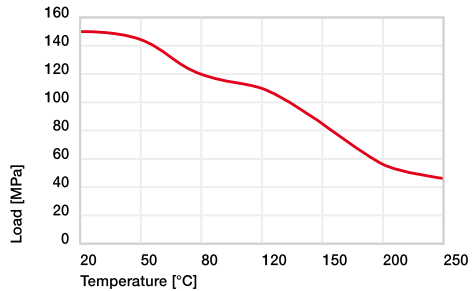


Diagram 02: Permissible maximum surface pressure of as a function of temperature (150 MPa at +20 °C)

iglidur® Z is suitable for both medium and – due to its high heat resistance – high speeds. Diagram 03 shows the elastic deformation of iglidur® Z at radial loads. At the recommended maximum surface pressure of 150 MPa the deformation is about 5.5 % at room temperature.

► Surface pressure, page 41

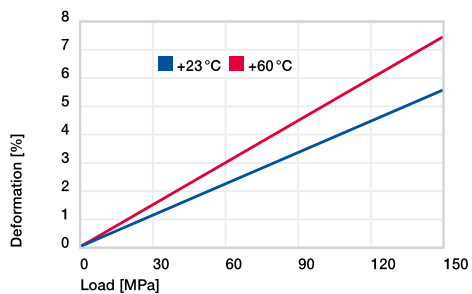


Diagram 03: Deformation under pressure and temperature

### Permissible surface speeds

iglidur® Z is a high temperature bearing material, which is suited for applications with very high specific loads. The maximum values shown in table 03 can only be achieved at low pressures. At the given speeds, friction can cause a temperature increase to maximum permissible levels. In practice, though, this temperature level is rarely reached due to varying application conditions.

► Surface speed, page 44

m/s	Rotating	Oscillating	Linear
Continuous	1.5	1.1	5
Short-term	3.5	2.5	6

Table 03: Maximum surface speeds

### Temperatures

The maximum permissible short-term temperature is +310 °C. The ambient temperatures in the bearing system also have an effect on the bearing wear. The wear rate rises with increasing temperatures. At high temperatures iglidur® Z is also the most wear resistant material when running dry. At temperatures over +145 °C an additional securing is required.

► Application temperatures, page 49

► Additional securing, page 49

### Friction and wear

The coefficient of friction declines just as the wear resistance with increasing load (diagrams 04 and 05).

► Coefficients of friction and surfaces, page 47

► Wear resistance, page 50

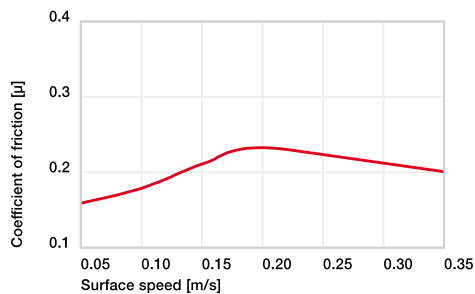


Diagram 04: Coefficient of friction as a function of the surface speed, p = 0.75 MPa

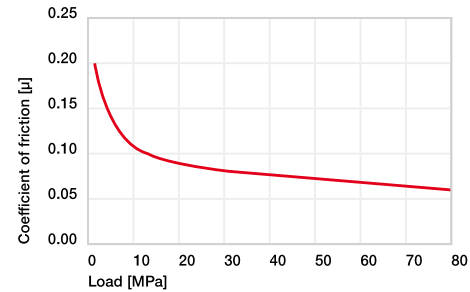


Diagram 05: Coefficient of friction as a function of the pressure, v = 0.01 m/s

### Shaft materials

Diagram 06 shows wear rates in the lower load range, which are very similar to those of other wear resistant iglidur® materials. However, in the upper load range iglidur® Z outperforms all other materials in wear resistance. Provided a Cf53 hardened and ground steel shaft is used, the wear is at 45 MPa still only 15 μm/km.

At low loads iglidur® Z plain bearings wear less in oscillating operation than in rotation. 304 stainless steel and hard chromed shaft are of interest here.

► Shaft materials, page 52

iglidur® Z	Dry	Greases	Oil	Water
C. o. f. μ	0.06–0.14	0.09	0.04	0.04

Table 04: Coefficient of friction against steel (Ra = 1 μm, 50 HRC)

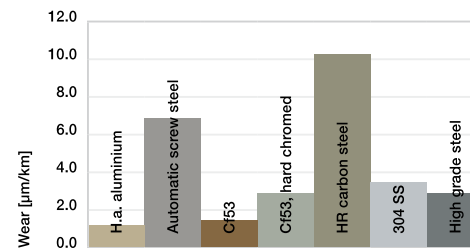


Diagram 06: Wear, rotating with different shaft materials, p = 1 MPa, v = 0.3 m/s

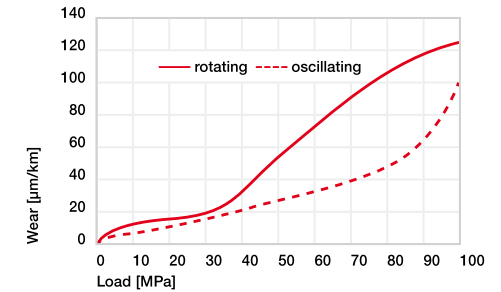


Diagram 07: Wear for oscillating and rotating applications with shaft material Cf53 hardened and ground steel, as a function of the pressure

### Installation tolerances

iglidur® Z plain bearings are standard bearings for shafts with h-tolerance (recommended minimum h9). The bearings are designed for pressfit into a housing machined to a H7 tolerance. After being assembled into a nominal size housing, in standard cases the inner diameter automatically adjusts to the F10 tolerances. For particular dimensions the tolerance differs depending on the wall thickness (please see product range table).

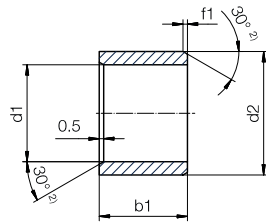
► Testing methods, page 57

Diameter d1 [mm]	Shaft h9 [mm]	iglidur® Z F10 [mm]	Housing H7 [mm]
up to 3	0–0.025	+0.006 +0.046	0 +0.010
> 3 to 6	0–0.030	+0.010 +0.058	0 +0.012
> 6 to 10	0–0.036	+0.013 +0.071	0 +0.015
> 10 to 18	0–0.043	+0.016 +0.086	0 +0.018
> 18 to 30	0–0.052	+0.020 +0.104	0 +0.021
> 30 to 50	0–0.062	+0.025 +0.125	0 +0.025
> 50 to 80	0–0.074	+0.030 +0.150	0 +0.030
> 80 to 120	0–0.087	+0.036 +0.176	0 +0.035

Table 05: Important tolerances for plain bearings according to ISO 3547-1 after pressfit

# iglidur® Z | Product range

## Sleeve bearing (Form S)



### Order key

Type	Dimensions [mm]
<b>Z S M-04 05-04</b>	
iglidur® material	
Form S	
Metric	
Inner-Ø d1	
Outer-Ø d2	
Length b1	

### Dimensions according to ISO 3547-1 and special dimensions

### Imperial dimensions available

► From page 1423

d1	d1-Tolerance <sup>3)</sup>	d2	b1	Part No.
h13				
14.0		16.0	20.0	ZSM-1416-20
14.0		16.0	25.0	ZSM-1416-25
15.0		17.0	15.0	ZSM-1517-15
15.0		17.0	20.0	ZSM-1517-20
15.0		17.0	22.0	ZSM-1517-22
15.0		17.0	25.0	ZSM-1517-25
16.0	+0.016	18.0	12.0	ZSM-1618-12
16.0	+0.086	18.0	15.0	ZSM-1618-15
16.0		18.0	20.0	ZSM-1618-20
16.0		18.0	25.0	ZSM-1618-25
16.0		18.0	25.0	ZSM-1618-25
18.0		20.0	15.0	ZSM-1820-15
18.0		20.0	20.0	ZSM-1820-20
18.0		20.0	24.0	ZSM-1820-24
18.0		20.0	25.0	ZSM-1820-25
20.0		23.0	10.0	ZSM-2023-10
20.0		23.0	15.0	ZSM-2023-15
20.0		23.0	20.0	ZSM-2023-20
20.0		23.0	25.0	ZSM-2023-25
20.0		23.0	30.0	ZSM-2023-30
20.0		23.0	35.0	ZSM-2023-35
22.0	+0.020	24.0	30.0	ZSM-2224-30
22.0	+0.104	25.0	15.0	ZSM-2225-15
22.0		25.0	20.0	ZSM-2225-20
22.0		25.0	25.0	ZSM-2225-25
22.0		25.0	30.0	ZSM-2225-30
24.0		27.0	15.0	ZSM-2427-15
24.0		27.0	20.0	ZSM-2427-20
24.0		27.0	25.0	ZSM-2427-25

<sup>2)</sup> Thickness < 1 mm: chamfer = 20°

Chamfer in relation to the d1

d1 [mm]: Ø 1-6 | Ø 6-12 | Ø 12-30 | Ø > 30

f [mm]: 0.3 | 0.5 | 0.8 | 1.2

### Dimensions [mm]

d1	d1-Tolerance <sup>3)</sup>	d2	b1	Part No.
h13				
4.0		5.5	4.0	ZSM-0405-04
4.0		5.5	6.0	ZSM-0405-06
4.0		5.5	8.0	ZSM-0405-08
5.0		7.0	5.0	ZSM-0507-05
5.0		7.0	9.0	ZSM-0507-09
5.0	+0.010	7.0	10.0	ZSM-0507-10
6.0	+0.058	8.0	6.0	ZSM-0608-06
6.0		8.0	8.0	ZSM-0608-08
6.0		8.0	10.0	ZSM-0608-10
6.0		8.0	12.0	ZSM-0608-12
6.0		10.0	6.0	ZSM-0610-06
8.0		10.0	6.0	ZSM-0810-06
8.0		10.0	8.0	ZSM-0810-08
8.0		10.0	10.0	ZSM-0810-10
8.0		10.0	12.0	ZSM-0810-12
10.0	+0.013	12.0	8.0	ZSM-1012-08
10.0	+0.071	12.0	10.0	ZSM-1012-10
10.0		12.0	12.0	ZSM-1012-12
10.0		12.0	15.0	ZSM-1012-15
10.0		12.0	20.0	ZSM-1012-20
12.0		14.0	8.0	ZSM-1214-08
12.0		14.0	10.0	ZSM-1214-10
12.0		14.0	12.0	ZSM-1214-12
12.0	+0.016	14.0	15.0	ZSM-1214-15
12.0	+0.086	14.0	20.0	ZSM-1214-20
13.0		15.0	10.0	ZSM-1315-10
13.0		15.0	20.0	ZSM-1315-20
14.0		16.0	15.0	ZSM-1416-15

<sup>3)</sup> After press-fit. Testing methods ► Page 57

# iglidur® Z | Product range

## Sleeve bearing (Form S)

### Dimensions [mm]

d1	d1-Tolerance <sup>3)</sup>	d2	b1	Part No.
h13				
24.0		27.0	30.0	ZSM-2427-30
25.0		28.0	15.0	ZSM-2528-15
25.0		28.0	20.0	ZSM-2528-20
25.0		28.0	25.0	ZSM-2528-25
25.0		28.0	30.0	ZSM-2528-30
25.0		28.0	48.0	ZSM-2528-48
25.0		30.0	20.0	ZSM-2530-20
26.0	+0.020	30.0	34.0	ZSM-2630-34
28.0	+0.104	32.0	20.0	ZSM-2832-20
28.0		32.0	25.0	ZSM-2832-25
28.0		32.0	30.0	ZSM-2832-30
28.0		34.0	29.0	ZSM-2834-29
30.0		34.0	20.0	ZSM-3034-20
30.0		34.0	25.0	ZSM-3034-25
30.0		34.0	30.0	ZSM-3034-30
30.0		34.0	40.0	ZSM-3034-40
32.0		35.0	44.0	ZSM-3235-44
32.0		36.0	20.0	ZSM-3236-20
32.0		36.0	30.0	ZSM-3236-30
32.0		36.0	40.0	ZSM-3236-40
35.0	+0.025	39.0	20.0	ZSM-3539-20
35.0	+0.125	39.0	30.0	ZSM-3539-30
35.0		39.0	40.0	ZSM-3539-40
35.0		39.0	50.0	ZSM-3539-50
40.0		44.0	15.0	ZSM-4044-15
40.0		44.0	20.0	ZSM-4044-20

<sup>3)</sup> After press-fit. Testing methods ► Page 57

d1	d1-Tolerance <sup>3)</sup>	d2	b1	Part No.
h13				
40.0		44.0	30.0	ZSM-4044-30
40.0		44.0	40.0	ZSM-4044-40
40.0		44.0	47.0	ZSM-4044-47
40.0		44.0	50.0	ZSM-4044-50
45.0		50.0	20.0	ZSM-4550-20
45.0		50.0	30.0	ZSM-4550-30
45.0	+0.025	50.0	40.0	ZSM-4550-40
45.0	+0.125	50.0	50.0	ZSM-4550-50
50.0		55.0	20.0	ZSM-5055-20
50.0		55.0	30.0	ZSM-5055-30
50.0		55.0	40.0	ZSM-5055-40
50.0		55.0	50.0	ZSM-5055-50
50.0		55.0	60.0	ZSM-5055-60
55.0		60.0	60.0	ZSM-5560-60
60.0		65.0	60.0	ZSM-6065-60
70.0	+0.030	75.0	70.0	ZSM-7075-70
80.0	+0.150	85.0	60.0	ZSM-8085-60
80.0		85.0	80.0	ZSM-8085-80
85.0		90.0	60.0	ZSM-8590-60
85.0	+0.036	90.0	100.0	ZSM-8590-100
95.0	+0.176	100.0	60.0	ZSM-95100-60
100.0	+0.072	105.0	100.0	ZSM-100105-100
100.0	+0.212			
120.0	+0.043	125.0	100.0	ZSM-120125-100
120.0	+0.203			

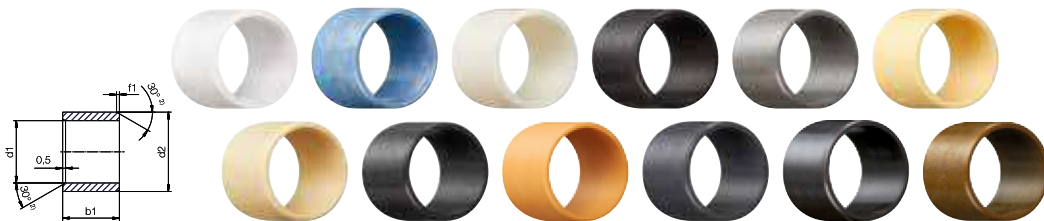
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### Even more dimensions from stock

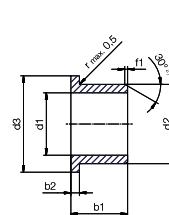
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Dimensions sleeve Abmessungen zylindrisch [mm]

Part No. Art.-Nr.	d1	d1 tolerance d1-Toleranz	d2	b1 h13
A180SM-0810-15	8.0	+0.025 +0.083	10.0	15.0
A350SM-1416-12	14.0	+0.016 +0.068	16.0	12.0
C500SM-3034-30	30.0	+0.020 +0.104	34.0	30.0
F2SM-1214-15	12.0	+0.032 +0.102	14.0	15.0
F2SM-1618-20	16.0	+0.032 +0.102	18.0	20.0
GSM-0406-06	4.0	+0.020 +0.068	6.0	6.0
GSM-0810-36	8.0	+0.025 +0.083	10.0	36.0
GSM-120125-78	120.0	+0.072 +0.212	125.0	78.0
GSM-1214-45	12.0	+0.032 +0.102	14.0	45.0
GSM-1820-30	18.0	+0.032 +0.102	20.0	30.0
GSM-1822-15	18.0	+0.032 +0.102	22.0	15.0
GSM-2021-095	20.0	+0.020 +0.072	21.0	9.5
JSM-0814-08	8.0	+0.040 +0.130	14.0	8.0
JSM-1216-06	12.0	+0.050 +0.0160	16.0	6.0
JSM-1218-10	12.0	+0.050 +0.0160	18.0	10.0
JSM-1315-06	13.0	+0.050 +0.0160	15.0	6.0
JSM-1620-20	16.0	+0.050 +0.0160	20.0	20.0
JSM-6065-100	60.0	+0.060 +0.180	65.0	100.0
MSM-1620-10	16.0	+0.050 +0.0160	20.0	10.0
P210SM-1214-04	12.0	+0.032 +0.102	14.0	4.0
PSM-0608-05	6.0	+0.020 +0.068	8.0	5.0
PSM-0812-10	8.0	+0.040 +0.130	12.0	10.0
PSM-3236-15	32.0	+0.050 +0.150	36.0	15.0
Q2SM-1012-04	10.0	+0.025 +0.083	12.0	4.0
Q2SM-4246-52	42.0	+0.050 +0.150	46.0	52.0
X6SM-1416-22	14.0	+0.016 +0.086	16.0	22.0
X6SM-1618-12	16.0	+0.016 +0.086	18.0	12.0
X6SM-2023-15	20.0	+0.020 +0.104	23.0	15.0
ZSM-2225-35	22.0	+0.020 +0.104	25.0	35.0
ZSM-6065-25	60.0	+0.030 +0.150	65.0	25.0
ZSM-9095-100	90.0	+0.036 +0.176	95.0	100.0



Dimensions with flange Abmessungen mit Bund [mm]

Part No. Art.-Nr.	d1	d1 tolerance d1-Toleranz	d2	d3	b1 h13	b2
GFM-060710-06	6.0	+0.010 +0.040	7.0	10.0	6.0	0.5
GFM-0812-16	8.0	+0.040 +0.130	12.0	16.0	16.0	2.0
GFM-101115-03	10.0	+0.013 +0.046	11.0	15.0	3.0	1.0
GFM-1012-11	10.0	+0.025 +0.083	12.0	18.0	11.0	1.0
GFM-1012-25	10.0	+0.025 +0.083	12.0	18.0	25.0	1.0
GFM-1719-07	17.0	+0.032 +0.102	19.0	25.0	7.0	1.0
GFM-2527-12	25.0	+0.040 +0.124	27.0	32.0	12.0	1.0
GFM-2527-15	25.0	+0.040 +0.124	27.0	32.0	15.0	1.0
GFM-3034-12	30.0	+0.040 +0.124	34.0	42.0	12.0	2.0
GFM-303440-07	30.0	+0.040 +0.124	34.0	40.0	7.0	2.0
H1FM-0405-06	4.0	+0.010 +0.058	5.5	9.5	6.0	0.8
J350FM-6065-50	60.0	+0.030 +0.150	65.0	73.0	50.0	2.0
J3FM-081418-15	8.0	+0.025 +0.083	14.0	18.0	15.0	2.0
JFM-040810-15	4.0	+0.020 +0.068	8.0	10.0	15.0	2.0
JFM-0810-03	8.0	+0.025 +0.083	10.0	15.0	3.0	1.0
JFM-121419-06	12.0	+0.032 +0.102	14.0	19.0	6.0	1.0
JFM-121622-20	12.0	+0.050 +0.0160	16.0	22.0	20.0	2.0
JFM-2023-07	20.0	+0.040 +0.124	23.0	30.0	7.0	1.5
PFM-1214-08	12.0	+0.032 +0.102	14.0	8.0	20.0	1.0
PFM-1618-08	16.0	+0.032 +0.102	18.0	8.0	24.0	1.0
P210FM-0405-06	4.0	+0.020 +0.068	5.5	9.5	6.0	0.8
Q290FM-8085-100	80.0	+0.060 +0.180	85.0	93.0	100.0	2.5
Q2FM-101219-13	10.0	+0.025 +0.083	12.0	19.0	13.0	1.0
Q2FM-1013-05	10.0	+0.025 +0.083	13.0	20.0	5.0	1.0
Q2FM-2023-07	20.0	+0.040 +0.124	23.0	30.0	7.0	1.5
QFM-101215-04	10.0	+0.025 +0.083	12.0	15.0	4.0	1.0
QFM-121418-06	12.0	+0.032 +0.102	14.0	18.0	6.0	1.0
WFM-2023-08	20.0	+0.040 +0.124	23.0	30.0	8.0	1.5
XFM-1214-50	12.0	+0.016 +0.086	14.0	50.0	20.0	1.0
X6FM-0608-04	6.0	+0.010 +0.058	8.0	12.0	4.0	1.0
ZFM-1012-25	10.0	+0.013 +0.071	12.0	18.0	25.0	1.0
ZFM-2023-075	20.0	+0.020 +0.104	23.0	30.0	7.5	1.5

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