

## The classic all-rounder – iglidur<sup>®</sup> G

Over 650 sizes available from stock

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High wear resistance

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Resistance to dust and dirt

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Cost-effective

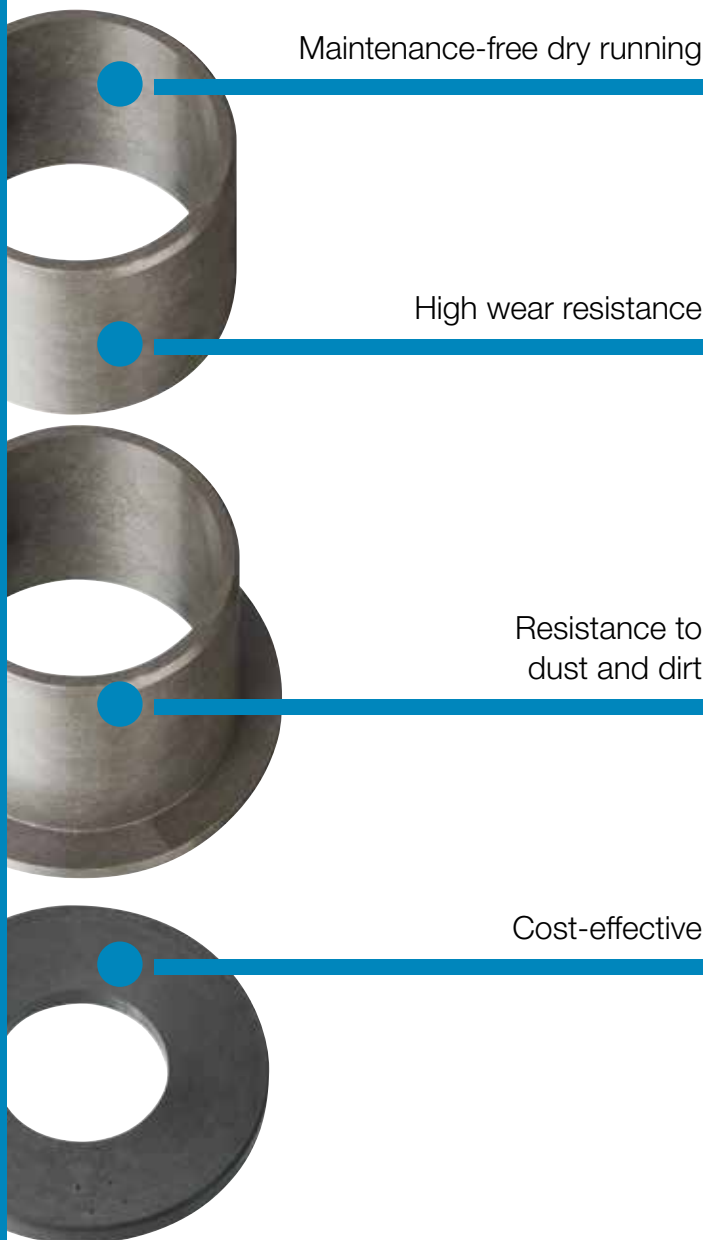
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Lubrication and maintenance-free

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## Excellent price-performance ratio



Maintenance-free dry running

High wear resistance

Resistance to dust and dirt

Cost-effective

iglidur® G bearings cover an extremely wide range of different requirements – they are truly "all-round". The material is ideal for universal applications, a truly "all-round". Typical applications include medium to high loads, medium sliding speeds and medium temperatures.



### When to use it?

- Economical all-round performance bearing
- For low to average surface speeds
- When the bearing needs to run on different shaft materials
- For oscillating and rotational movements



### When not to use it?

- When mechanical reaming of the wall surface is necessary
  - ▶ iglidur® M250, page 95
- When the highest wear resistance is required
  - ▶ iglidur® W300, page 153
- When universal chemical resistance is required
  - ▶ iglidur® X, page 245
- When temperatures are constantly higher than +130 °C
  - ▶ iglidur® H, page 313
  - ▶ iglidur® X, page 245
  - ▶ iglidur® H370, page 305
- For underwater use
  - ▶ iglidur® H370, page 305

### Typical application areas

- Agricultural machines
- Construction machinery industry
- Machine building
- Sports and leisure
- Automotive industry
- Mechatronics



#### Available from stock

Detailed information about delivery time online.



#### Block pricing online

No minimum order value. From batch size 1.



Max. +130 °C

Min. -40 °C



Ø 1.5–195 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® G         | Testing method |
|---|------------------------------------|--------------------|----------------|
| Density   | g/cm <sup>3</sup>                  | 1.46               |                |
| Colour  |                                    | dark grey          |                |
| Max. moisture absorption at +23 °C/50 % r.h.            | % weight                           | 0.7                | DIN 53495      |
| Max. water absorption                                   | % weight                           | 4.0                |                |
| Coefficient of sliding friction, dynamic, against steel | μ                                  | 0.08–0.15          |                |
| pv value, max. (dry)                                    | MPa · m/s                          | 0.42               |                |
| Mechanical properties                                   |                                    |                    |                |
| Flexural modulus  | MPa                                | 7,800              | DIN 53457      |
| Flexural strength at +20 °C                             | MPa                                | 210                | DIN 53452      |
| Compressive strength                                    | MPa                                | 78                 |                |
| Max. recommended surface pressure (+20 °C)              | MPa                                | 80                 |                |
| Shore-D hardness  |                                    | 81                 | DIN 53505      |
| Physical and thermal properties                         |                                    |                    |                |
| Max. long-term application temperature                  | °C                                 | +130               |                |
| Max. short-term application temperature                 | °C                                 | +220               |                |
| Min. long-term application temperature                  | °C                                 | -40                |                |
| Heat conductivity                                       | W/m · K                            | 0.24               | ASTM C 177     |
| Coefficient of thermal expansion (at +23 °C)            | K <sup>-1</sup> · 10 <sup>-5</sup> | 9                  | DIN 53752      |
| Electrical properties                                   |                                    |                    |                |
| Specific contact resistance                             | Ωcm                                | > 10 <sup>13</sup> | DIN IEC 93     |
| Surface resistance                                      | Ω                                  | > 10 <sup>11</sup> | DIN 53482      |

Table 01: Material properties table

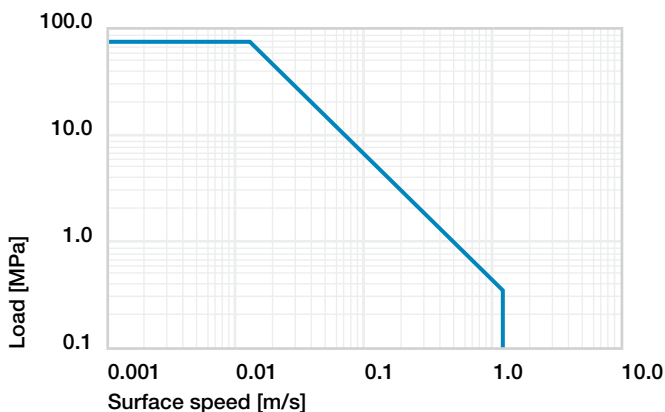


Diagram 01: Permissible pv values for iglidur® G bearings with a wall thickness of 1 mm dry running against a steel shaft, at +20 °C, mounted in a steel housing

### Moisture absorption

The moisture absorption of iglidur® G plain bearings is approximately 0.7 % weight in standard climatic conditions. The saturation limit submerged in water is 4 % weight. This must be taken into account for these types of applications.

► Diagram, [www.igus.eu/g-moisture](http://www.igus.eu/g-moisture)

### Vacuum

iglidur® G plain bearings outgas in a vacuum. Use in vacuum is only possible with dehumidified bearings.

### Radiation resistance

Plain bearings made from iglidur® G are resistant to radiation up to an intensity of  $3 \cdot 10^2$  Gy.

### UV resistance

iglidur® G plain bearings are permanently resistant to UV radiation.

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

+ resistant 0 conditionally resistant - not resistant

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

Table 02: Chemical resistance

► Chemical table, page 1478

iglidur® G is the decathlete among iglidur® materials. It performs exceedingly well in all technical disciplines and is the classic all-rounder, primarily with respect to the overall general, mechanical, thermal and tribological specifications.

## Mechanical properties

With increasing temperatures, the compressive strength of iglidur® G plain bearings decreases. The diagram 02 shows this inverse relationship. However, at the long-term maximum temperature of +130 °C the permissible surface pressure is almost 35 MPa. The permissible maximum surface pressure is a mechanical material parameter. No conclusions regarding the tribological properties can be drawn from this.

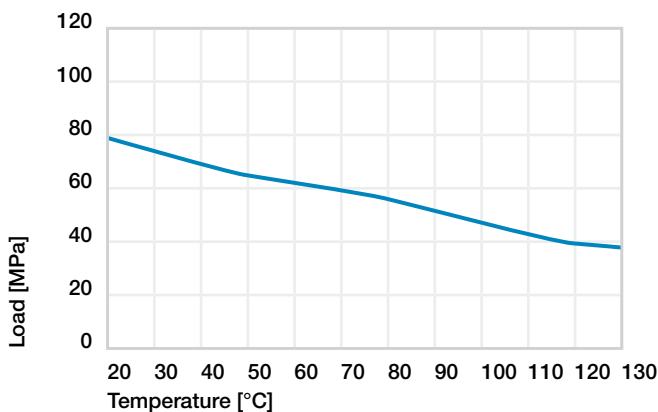


Diagram 02: Permissible maximum surface pressure of as a function of temperature (80 MPa at +20 °C)

Diagram 03 shows the elastic deformation of iglidur® G at radial loads. The plastic deformation is minimal up to a pressure of approximately 100 MPa. However, it is also dependent on the service time.

► Surface pressure, page 41

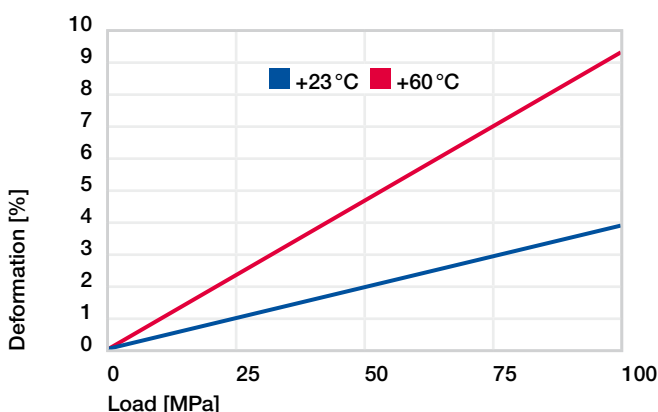


Diagram 03: Deformation under pressure and temperature

## Permissible surface speeds

iglidur® G has been developed for low to medium surface speeds. 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        | 0.7         | 4      |
| Short-term | 2        | 1.4         | 5      |

Table 03: Maximum surface speeds

## Temperatures

The ambient temperatures greatly influence the wear performance of plastic bearings. The temperatures prevailing in the bearing system also have an influence on the bearing wear. With increasing temperatures, the wear increases and this effect is significant when temperatures rise over +120 °C. At temperatures over +80 °C an additional securing is required.

► Application temperatures, page 49

► Additional securing, page 49

## Friction and wear

Similar to wear resistance, the coefficient of friction  $\mu$  also changes with the speed and load (diagrams 04 and 05).

► Coefficients of friction and surfaces, page 47

► Wear resistance, page 50

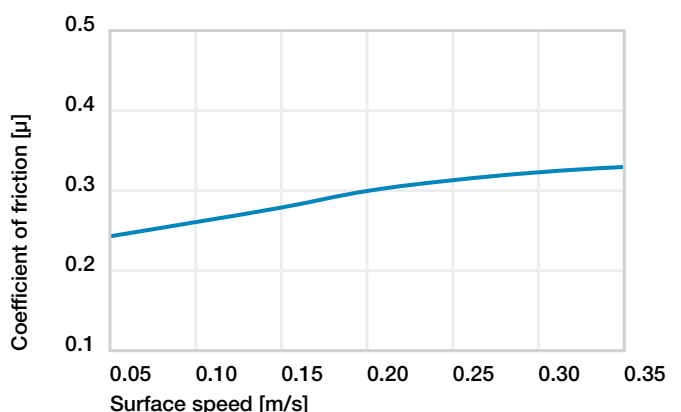


Diagram 04: Coefficient of friction as a function of the surface speed, p = 0.75 MPa

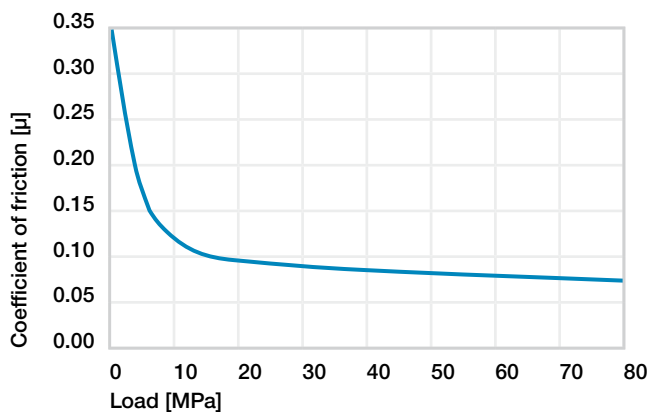


Diagram 05: Coefficient of friction as a function of the pressure,  $v = 0.01$  m/s

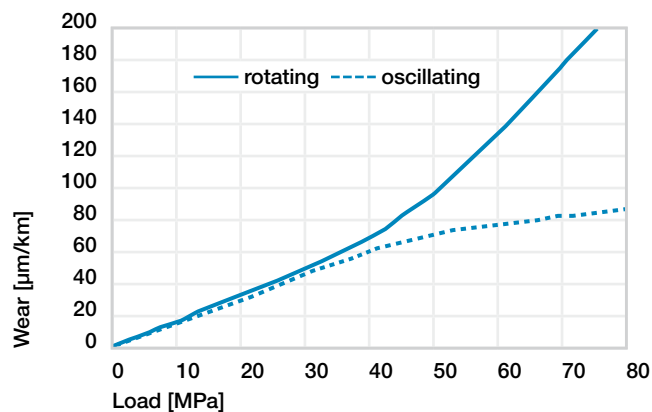


Diagram 07: Wear for oscillating and rotating applications with shaft material Cf53 hardened and ground steel, as a function of the pressure

### Shaft materials

Friction and wear are to a large extent also highly dependent on the shaft materials. Shafts that are too smooth, increase both the coefficient of friction and the wear of the bearing. For iglidur® G a ground surface with an average roughness  $R_a = 0.8 \mu\text{m}$  is recommended. Diagram 06 shows results of testing different shaft materials with plain bearings made from iglidur® G. It is important to notice that with increasing loads, the recommended hardness of the shaft increases. The "soft" shafts tend to wear more easily and thus the wear of the overall system. If the loads exceed 2 MPa it is important to recognise that the wear rate (the gradient of the curves) clearly decreases with the hard shaft materials. If the shaft material you plan on using is not shown in these test results, please contact us.

► Shaft materials, page 52

| iglidur® G   | Dry       | Greases | Oil  | Water |
|--------------|-----------|---------|------|-------|
| C.o.f. $\mu$ | 0.08–0.15 | 0.09    | 0.04 | 0.04  |

Table 04: Coefficient of friction against steel ( $R_a = 1 \mu\text{m}$ , 50 HRC)

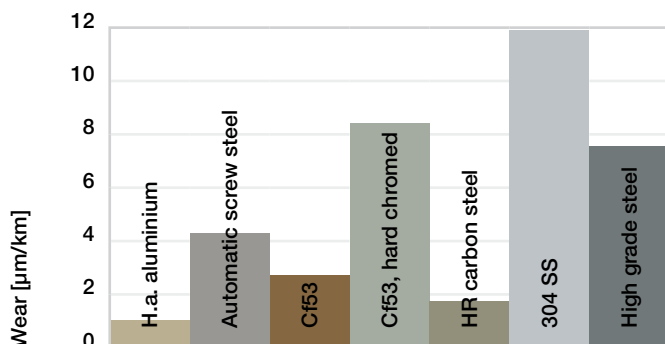


Diagram 06: Wear, rotating with different shaft materials,  $p = 1$  MPa,  $v = 0.3$  m/s

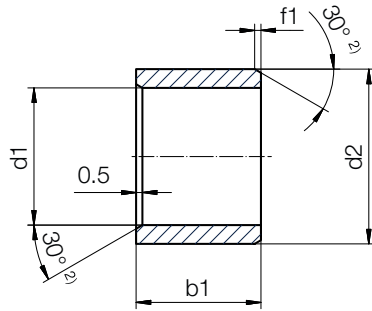
### Installation tolerances

iglidur® G 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, the inner diameter automatically adjusts to the E10 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® G E10 [mm] | Housing H7 [mm] |
|------------------|---------------|---------------------|-----------------|
| up to 3          | 0–0.025       | +0.014 +0.054       | 0 +0.010        |
| > 3 to 6         | 0–0.030       | +0.020 +0.068       | 0 +0.012        |
| > 6 to 10        | 0–0.036       | +0.025 +0.083       | 0 +0.015        |
| > 10 to 18       | 0–0.043       | +0.032 +0.102       | 0 +0.018        |
| > 18 to 30       | 0–0.052       | +0.040 +0.124       | 0 +0.021        |
| > 30 to 50       | 0–0.062       | +0.050 +0.150       | 0 +0.025        |
| > 50 to 80       | 0–0.074       | +0.060 +0.180       | 0 +0.030        |
| > 80 to 120      | 0–0.087       | +0.072 +0.212       | 0 +0.035        |
| >120 to 180      | 0–0.100       | +0.085 +0.245       | 0 +0.040        |

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



### Order key

Type      Dimensions [mm]

**G S M - 0103-02**

|                   |        |        |            |            |           |
|-------------------|--------|--------|------------|------------|-----------|
| iglidur® material | Form S | Metric | Inner-Ø d1 | Outer-Ø d2 | Length b1 |
|-------------------|--------|--------|------------|------------|-----------|

<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-<br>Tolerance <sup>3)</sup> | d2  | b1<br>h13 | Part No.             |
|-----|--------------------------------|-----|-----------|----------------------|
| 1.5 |                                | 3.0 | 2.0       | <b>GSM-0103-02</b>   |
| 2.0 |                                | 3.5 | 3.0       | <b>GSM-0203-03</b>   |
| 2.5 | +0.014                         | 4.5 | 5.0       | <b>GSM-02504-05</b>  |
| 3.0 | +0.054                         | 4.5 | 3.0       | <b>GSM-0304-03</b>   |
| 3.0 |                                | 4.5 | 5.0       | <b>GSM-0304-05</b>   |
| 3.0 |                                | 4.5 | 6.0       | <b>GSM-0304-06</b>   |
| 4.0 |                                | 5.5 | 4.0       | <b>GSM-0405-04</b>   |
| 4.0 | +0.020                         | 5.5 | 6.0       | <b>GSM-0405-06</b>   |
| 4.5 | +0.068                         | 6.0 | 8.0       | <b>GSM-0406-08</b>   |
| 4.0 |                                | 7.0 | 5.5       | <b>GSM-0407-05</b>   |
| 5.0 |                                | 6.0 | 4.6       | <b>GSM-0506-046</b>  |
| 5.0 | +0.010                         | 6.0 | 5.0       | <b>GSM-0506-05</b>   |
| 5.0 | +0.040                         | 6.0 | 7.0       | <b>GSM-0506-07</b>   |
| 5.0 |                                | 7.0 | 5.0       | <b>GSM-0507-05</b>   |
| 5.0 | +0.020                         | 7.0 | 7.0       | <b>GSM-0507-07</b>   |
| 5.0 | +0.068                         | 7.0 | 8.0       | <b>GSM-0507-08</b>   |
| 5.0 |                                | 7.0 | 10.0      | <b>GSM-0507-10</b>   |
| 6.0 |                                | 7.0 | 6.0       | <b>GSM-0607-06</b>   |
| 6.0 |                                | 7.0 | 12.0      | <b>GSM-0607-12</b>   |
| 6.0 | +0.010                         | 7.0 | 17.0      | <b>GSM-0607-17</b>   |
| 6.0 | +0.040                         | 7.0 | 17.5      | <b>GSM-0607-17.5</b> |
| 6.0 |                                | 7.0 | 19.0      | <b>GSM-0607-19</b>   |
| 6.0 |                                | 8.0 | 1.5       | <b>GSM-0608-015</b>  |
| 6.0 |                                | 8.0 | 2.5       | <b>GSM-0608-025</b>  |
| 6.0 | +0.020                         | 8.0 | 3.0       | <b>GSM-0608-03</b>   |
| 6.0 | +0.068                         | 8.0 | 4.0       | <b>GSM-0608-04</b>   |
| 6.0 |                                | 8.0 | 5.0       | <b>GSM-0608-05</b>   |
| 6.0 |                                | 8.0 | 5.5       | <b>GSM-0608-055</b>  |

**i** Dimensions according to ISO 3547-1 and special dimensions

**inch** Imperial dimensions available  
▶ From page 1402

| d1  | d1-<br>Tolerance <sup>3)</sup> | d2   | b1<br>h13 | Part No.           |
|-----|--------------------------------|------|-----------|--------------------|
| 6.0 |                                | 8.0  | 6.0       | <b>GSM-0608-06</b> |
| 6.0 |                                | 8.0  | 8.0       | <b>GSM-0608-08</b> |
| 6.0 | +0.020                         | 8.0  | 9.5       | <b>GSM-0608-09</b> |
| 6.0 | +0.068                         | 8.0  | 10.0      | <b>GSM-0608-10</b> |
| 6.0 |                                | 8.0  | 11.8      | <b>GSM-0608-11</b> |
| 6.0 |                                | 8.0  | 13.8      | <b>GSM-0608-13</b> |
| 7.0 | +0.013                         | 8.0  | 10.0      | <b>GSM-0708-10</b> |
| 7.0 | +0.049                         | 8.0  | 19.0      | <b>GSM-0708-19</b> |
| 7.0 |                                | 9.0  | 8.0       | <b>GSM-0709-08</b> |
| 7.0 | +0.025                         | 9.0  | 9.0       | <b>GSM-0709-09</b> |
| 7.0 | +0.083                         | 9.0  | 10.0      | <b>GSM-0709-10</b> |
| 7.0 |                                | 9.0  | 12.0      | <b>GSM-0709-12</b> |
| 8.0 |                                | 9.0  | 5.0       | <b>GSM-0809-05</b> |
| 8.0 | +0.013                         | 9.0  | 6.0       | <b>GSM-0809-06</b> |
| 8.0 | +0.049                         | 9.0  | 8.0       | <b>GSM-0809-08</b> |
| 8.0 |                                | 9.0  | 12.0      | <b>GSM-0809-12</b> |
| 8.0 |                                | 10.0 | 5.0       | <b>GSM-0810-05</b> |
| 8.0 |                                | 10.0 | 6.0       | <b>GSM-0810-06</b> |
| 8.0 |                                | 10.0 | 6.8       | <b>GSM-0810-07</b> |
| 8.0 |                                | 10.0 | 8.0       | <b>GSM-0810-08</b> |
| 8.0 |                                | 10.0 | 10.0      | <b>GSM-0810-10</b> |
| 8.0 | +0.025                         | 10.0 | 12.0      | <b>GSM-0810-12</b> |
| 8.0 | +0.083                         | 10.0 | 13.8      | <b>GSM-0810-13</b> |
| 8.0 |                                | 10.0 | 14.0      | <b>GSM-0810-14</b> |
| 8.0 |                                | 10.0 | 15.0      | <b>GSM-0810-15</b> |
| 8.0 |                                | 10.0 | 16.0      | <b>GSM-0810-16</b> |
| 8.0 |                                | 10.0 | 18.0      | <b>GSM-0810-18</b> |
| 8.0 |                                | 10.0 | 20.0      | <b>GSM-0810-20</b> |

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

## Sleeve bearing (Form S)

### Dimensions [mm]

| d1   | d1-<br>Tolerance <sup>3)</sup> | d2   | b1<br>h13 | Part No.            | d1     | d1-<br>Tolerance <sup>3)</sup> | d2   | b1<br>h13          | Part No.             |
|------|--------------------------------|------|-----------|---------------------|--------|--------------------------------|------|--------------------|----------------------|
| 8.0  | +0.025                         | 10.0 | 22.0      | <b>GSM-0810-22</b>  | 12.0   |                                | 14.0 | 25.0               | <b>GSM-1214-25</b>   |
| 8.0  | +0.083                         | 10.1 | 25.0      | <b>GSM-0810-25</b>  | 12.0   | +0.032                         | 15.0 | 6.0                | <b>GSM-1215-06</b>   |
| 8.0  | +0.040                         | 12.0 | 9.0       | <b>GSM-0812-09</b>  | 12.0   | +0.102                         | 15.0 | 22.0               | <b>GSM-1215-22</b>   |
|      | 12.0                           |      |           |                     | +0.050 | 16.0                           | 10.0 | <b>GSM-1216-10</b> |                      |
| 9.0  | +0.013                         | 10.0 | 12.0      | <b>GSM-0910-12</b>  | 12.0   | +0.160                         | 16.0 | 20.0               | <b>GSM-1216-20</b>   |
| 9.0  | +0.049                         | 10.0 | 16.0      | <b>GSM-0910-16</b>  | 13.0   |                                | 15.0 | 7.0                | <b>GSM-1315-070</b>  |
| 9.0  | +0.025                         | 11.0 | 6.0       | <b>GSM-0911-06</b>  | 13.0   |                                | 15.0 | 7.5                | <b>GSM-1315-075</b>  |
| 9.0  | +0.083                         | 11.0 | 20.0      | <b>GSM-0911-20</b>  | 13.0   |                                | 15.0 | 10.0               | <b>GSM-1315-10</b>   |
| 10.0 |                                | 11.0 | 6.0       | <b>GSM-1011-06</b>  | 13.0   |                                | 15.0 | 15.0               | <b>GSM-1315-15</b>   |
| 10.0 |                                | 11.0 | 7.0       | <b>GSM-1011-07</b>  | 13.0   |                                | 15.0 | 20.0               | <b>GSM-1315-20</b>   |
| 10.0 | +0.013                         | 11.0 | 10.0      | <b>GSM-1011-10</b>  | 13.0   |                                | 15.0 | 25.0               | <b>GSM-1315-25</b>   |
| 10.0 | +0.049                         | 11.0 | 20.0      | <b>GSM-1011-20</b>  | 14.0   | +0.032                         | 16.0 | 3.0                | <b>GSM-1416-03</b>   |
| 10.0 |                                | 11.0 | 25.0      | <b>GSM-1011-25</b>  | 14.0   | +0.102                         | 16.0 | 6.0                | <b>GSM-1416-06</b>   |
| 10.0 |                                | 11.0 | 30.0      | <b>GSM-1011-30</b>  | 14.0   |                                | 16.0 | 8.0                | <b>GSM-1416-08</b>   |
| 10.0 |                                | 12.0 | 4.0       | <b>GSM-1012-04</b>  | 14.0   |                                | 16.0 | 10.0               | <b>GSM-1416-10</b>   |
| 10.0 |                                | 12.0 | 4.5       | <b>GSM-1012-045</b> | 14.0   |                                | 16.0 | 12.0               | <b>GSM-1416-12</b>   |
| 10.0 |                                | 12.0 | 5.0       | <b>GSM-1012-05</b>  | 14.0   |                                | 16.0 | 15.0               | <b>GSM-1416-15</b>   |
| 10.0 |                                | 12.0 | 6.0       | <b>GSM-1012-06</b>  | 14.0   |                                | 16.0 | 20.0               | <b>GSM-1416-20</b>   |
| 10.0 |                                | 12.0 | 7.0       | <b>GSM-1012-07</b>  | 14.0   |                                | 16.0 | 25.0               | <b>GSM-1416-25</b>   |
| 10.0 |                                | 12.0 | 8.0       | <b>GSM-1012-08</b>  | 14.0   |                                | 16.0 | 45.0               | <b>GSM-1416-45</b>   |
| 10.0 | +0.025                         | 12.0 | 9.0       | <b>GSM-1012-09</b>  | 15.0   | +0.016                         | 16.0 | 10.0               | <b>GSM-1516-10</b>   |
| 10.0 | +0.083                         | 12.0 | 10.0      | <b>GSM-1012-10</b>  | 15.0   | +0.059                         | 16.0 | 15.0               | <b>GSM-1516-15</b>   |
| 10.0 |                                | 12.0 | 12.0      | <b>GSM-1012-12</b>  | 15.0   |                                | 17.0 | 4.0                | <b>GSM-1517-04</b>   |
| 10.0 |                                | 12.0 | 14.0      | <b>GSM-1012-14</b>  | 15.0   |                                | 17.0 | 10.0               | <b>GSM-1517-10</b>   |
| 10.0 |                                | 12.0 | 15.0      | <b>GSM-1012-15</b>  | 15.0   |                                | 17.0 | 12.0               | <b>GSM-1517-12</b>   |
| 10.0 |                                | 12.0 | 17.0      | <b>GSM-1012-17</b>  | 15.0   |                                | 17.0 | 15.0               | <b>GSM-1517-15</b>   |
| 10.0 |                                | 12.0 | 20.0      | <b>GSM-1012-20</b>  | 15.0   |                                | 17.0 | 20.0               | <b>GSM-1517-20</b>   |
| 10.0 |                                | 13.0 | 13.5      | <b>GSM-1013-13</b>  | 15.0   |                                | 17.0 | 25.0               | <b>GSM-1517-25</b>   |
| 10.0 | +0.025                         | 14.0 | 10.0      | <b>GSM-1014-10</b>  | 16.0   |                                | 18.0 | 5.5                | <b>GSM-1618-055</b>  |
| 10.0 | +0.115                         | 14.0 | 20.0      | <b>GSM-1014-20</b>  | 16.0   |                                | 18.0 | 8.0                | <b>GSM-1618-08</b>   |
| 10.0 | +0.040                         | 16.0 | 10.0      | <b>GSM-1016-10</b>  | 16.0   | +0.032                         | 18.0 | 10.0               | <b>GSM-1618-10</b>   |
|      | +0.130                         |      |           |                     | 16.0   | +0.102                         | 18.0 | 12.0               | <b>GSM-1618-12</b>   |
| 12.0 |                                | 13.0 | 4.7       | <b>GSM-1213-047</b> | 16.0   |                                | 18.0 | 13.5               | <b>GSM-1618-13.5</b> |
| 12.0 | +0.016                         | 13.0 | 10.0      | <b>GSM-1213-10</b>  | 16.0   |                                | 18.0 | 15.0               | <b>GSM-1618-15</b>   |
| 12.0 | +0.059                         | 13.0 | 12.0      | <b>GSM-1213-12</b>  | 16.0   |                                | 18.0 | 20.0               | <b>GSM-1618-20</b>   |
| 12.0 |                                | 13.0 | 15.0      | <b>GSM-1213-15</b>  | 16.0   |                                | 18.0 | 25.0               | <b>GSM-1618-25</b>   |
| 12.0 |                                | 14.0 | 4.0       | <b>GSM-1214-04</b>  | 16.0   |                                | 18.0 | 30.0               | <b>GSM-1618-30</b>   |
| 12.0 |                                | 14.0 | 5.0       | <b>GSM-1214-05</b>  | 16.0   |                                | 18.0 | 38.5               | <b>GSM-1618-38.5</b> |
| 12.0 |                                | 14.0 | 6.0       | <b>GSM-1214-06</b>  | 16.0   |                                | 18.0 | 50.0               | <b>GSM-1618-50</b>   |
| 12.0 |                                | 14.0 | 8.0       | <b>GSM-1214-08</b>  | 17.0   |                                | 19.0 | 15.0               | <b>GSM-1719-15</b>   |
| 12.0 | +0.032                         | 14.0 | 10.0      | <b>GSM-1214-10</b>  | 18.0   | +0.016                         | 19.0 | 15.0               | <b>GSM-1819-15</b>   |
| 12.0 | +0.102                         | 14.0 | 12.0      | <b>GSM-1214-12</b>  |        |                                |      |                    |                      |
| 12.0 |                                | 14.0 | 14.0      | <b>GSM-1214-14</b>  | 18.0   | +0.032                         | 20.0 | 6.0                | <b>GSM-1820-06</b>   |
| 12.0 |                                | 14.0 | 15.0      | <b>GSM-1214-15</b>  | 18.0   | +0.102                         | 20.0 | 10.0               | <b>GSM-1820-10</b>   |
| 12.0 |                                | 14.0 | 20.0      | <b>GSM-1214-20</b>  | 18.0   |                                | 20.0 | 12.0               | <b>GSM-1820-12</b>   |

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



## Sleeve bearing (Form S)

## Dimensions [mm]

| d1   | d1-<br>Tolerance <sup>3)</sup> | d2   | b1<br>h13 | Part No.             | d1   | d1-<br>Tolerance <sup>3)</sup> | d2   | b1<br>h13 | Part No.            |
|------|--------------------------------|------|-----------|----------------------|------|--------------------------------|------|-----------|---------------------|
| 18.0 |                                | 20.0 | 15.0      | <b>GSM-1820-15</b>   | 24.0 |                                | 27.0 | 20.0      | <b>GSM-2427-20</b>  |
| 18.0 |                                | 20.0 | 20.0      | <b>GSM-1820-20</b>   | 24.0 | +0.040                         | 27.0 | 24.0      | <b>GSM-2427-24</b>  |
| 18.0 | +0.032                         | 20.0 | 25.0      | <b>GSM-1820-25</b>   | 24.0 | +0.124                         | 27.0 | 25.0      | <b>GSM-2427-25</b>  |
| 18.0 | +0.102                         | 20.0 | 34.0      | <b>GSM-1820-34</b>   | 24.0 |                                | 27.0 | 30.0      | <b>GSM-2427-30</b>  |
| 18.0 |                                | 20.0 | 38.0      | <b>GSM-1820-38</b>   | 25.0 | +0.020                         | 26.0 | 23.0      | <b>GSM-2526-23</b>  |
| 18.0 |                                | 20.0 | 45.0      | <b>GSM-1820-45</b>   | 25.0 | +0.072                         | 26.0 | 25.0      | <b>GSM-2526-25</b>  |
| 18.0 |                                | 22.0 | 30.0      | <b>GSM-1822-30</b>   | 25.0 |                                | 28.0 | 12.0      | <b>GSM-2528-12</b>  |
| 19.0 | +0.040                         | 22.0 | 6.0       | <b>GSM-1922-06</b>   | 25.0 |                                | 28.0 | 15.0      | <b>GSM-2528-15</b>  |
| 19.0 | +0.124                         | 22.0 | 28.0      | <b>GSM-1922-28</b>   | 25.0 |                                | 28.0 | 20.0      | <b>GSM-2528-20</b>  |
| 19.0 |                                | 22.0 | 35.0      | <b>GSM-1922-35</b>   | 25.0 |                                | 28.0 | 24.0      | <b>GSM-2528-24</b>  |
| 20.0 | +0.020                         | 21.0 | 20.0      | <b>GSM-2021-20</b>   | 25.0 |                                | 28.0 | 25.0      | <b>GSM-2528-25</b>  |
| 20.0 | +0.072                         |      |           |                      | 25.0 |                                | 28.0 | 30.0      | <b>GSM-2528-30</b>  |
| 20.0 |                                | 22.0 | 3.0       | <b>GSM-2022-03</b>   | 25.0 |                                | 28.0 | 35.0      | <b>GSM-2528-35</b>  |
| 20.0 |                                | 22.0 | 8.0       | <b>GSM-2022-08</b>   | 25.0 |                                | 28.0 | 50.0      | <b>GSM-2528-50</b>  |
| 20.0 |                                | 22.0 | 10.5      | <b>GSM-2022-105</b>  | 26.0 | +0.040                         | 30.0 | 16.0      | <b>GSM-2630-16</b>  |
| 20.0 |                                | 22.0 | 15.0      | <b>GSM-2022-15</b>   | 27.0 | +0.124                         | 30.0 | 5.0       | <b>GSM-2730-05</b>  |
| 20.0 |                                | 22.0 | 20.0      | <b>GSM-2022-20</b>   | 28.0 |                                | 32.0 | 10.5      | <b>GSM-2832-105</b> |
| 20.0 |                                | 22.0 | 22.0      | <b>GSM-2022-22</b>   | 28.0 |                                | 32.0 | 12.0      | <b>GSM-2832-12</b>  |
| 20.0 |                                | 22.0 | 28.0      | <b>GSM-2022-28</b>   | 28.0 |                                | 32.0 | 15.0      | <b>GSM-2832-15</b>  |
| 20.0 |                                | 22.0 | 30.0      | <b>GSM-2022-30</b>   | 28.0 |                                | 32.0 | 20.0      | <b>GSM-2832-20</b>  |
| 20.0 |                                | 22.0 | 47.0      | <b>GSM-2022-47</b>   | 28.0 |                                | 32.0 | 23.0      | <b>GSM-2832-23</b>  |
| 20.0 |                                | 23.0 | 4.5       | <b>GSM-2023-045</b>  | 28.0 |                                | 32.0 | 25.0      | <b>GSM-2832-25</b>  |
| 20.0 |                                | 23.0 | 10.0      | <b>GSM-2023-10</b>   | 28.0 |                                | 32.0 | 30.0      | <b>GSM-2832-30</b>  |
| 20.0 |                                | 23.0 | 15.0      | <b>GSM-2023-15</b>   | 28.0 | +0.065                         | 35.0 | 19.0      | <b>GSM-2835-19</b>  |
| 20.0 |                                | 23.0 | 20.0      | <b>GSM-2023-20</b>   | 28.0 | +0.195                         | 35.0 | 28.0      | <b>GSM-2835-28</b>  |
| 20.0 |                                | 23.0 | 24.0      | <b>GSM-2023-24</b>   | 29.0 | +0.040                         | 33.0 | 6.0       | <b>GSM-2933-06</b>  |
| 20.0 | +0.040                         | 23.0 | 25.0      | <b>GSM-2023-25</b>   | 29.0 | +0.124                         |      |           |                     |
| 20.0 | +0.124                         | 23.0 | 30.0      | <b>GSM-2023-30</b>   | 30.0 | +0.020                         | 31.0 | 5.0       | <b>GSM-3031-05</b>  |
| 20.0 |                                | 23.0 | 35.0      | <b>GSM-2023-35</b>   | 30.0 | +0.072                         | 31.0 | 12.0      | <b>GSM-3031-12</b>  |
| 22.0 |                                | 24.0 | 8.0       | <b>GSM-2224-08</b>   | 30.0 |                                | 31.0 | 30.0      | <b>GSM-3031-30</b>  |
| 22.0 |                                | 24.0 | 10.0      | <b>GSM-2224-10</b>   | 30.0 |                                | 34.0 | 12.0      | <b>GSM-3034-12</b>  |
| 22.0 |                                | 24.0 | 12.0      | <b>GSM-2224-12</b>   | 30.0 |                                | 34.0 | 15.0      | <b>GSM-3034-15</b>  |
| 22.0 |                                | 24.0 | 15.0      | <b>GSM-2224-15</b>   | 30.0 |                                | 34.0 | 20.0      | <b>GSM-3034-20</b>  |
| 22.0 |                                | 24.0 | 17.0      | <b>GSM-2224-17</b>   | 30.0 |                                | 34.0 | 24.0      | <b>GSM-3034-24</b>  |
| 22.0 |                                | 24.0 | 20.0      | <b>GSM-2224-20</b>   | 30.0 | +0.040                         | 34.0 | 25.0      | <b>GSM-3034-25</b>  |
| 22.0 |                                | 24.0 | 30.0      | <b>GSM-2224-30</b>   | 30.0 | +0.124                         | 34.0 | 30.0      | <b>GSM-3034-30</b>  |
| 22.0 |                                | 24.0 | 48.0      | <b>GSM-2224-48</b>   | 30.0 |                                | 34.0 | 35.0      | <b>GSM-3034-35</b>  |
| 22.0 |                                | 25.0 | 15.0      | <b>GSM-2225-15</b>   | 30.0 |                                | 34.0 | 40.0      | <b>GSM-3034-40</b>  |
| 22.0 |                                | 25.0 | 20.0      | <b>GSM-2225-20</b>   | 30.0 |                                | 34.0 | 52.5      | <b>GSM-3034-525</b> |
| 22.0 |                                | 25.0 | 25.0      | <b>GSM-2225-25</b>   | 32.0 |                                | 36.0 | 15.0      | <b>GSM-3236-15</b>  |
| 22.0 |                                | 25.0 | 30.0      | <b>GSM-2225-30</b>   | 32.0 |                                | 36.0 | 20.0      | <b>GSM-3236-20</b>  |
| 22.0 |                                | 25.0 | 38.5      | <b>GSM-2225-38.5</b> | 32.0 | +0.050                         | 36.0 | 30.0      | <b>GSM-3236-30</b>  |
| 24.0 | +0.020 +0.072                  | 25.0 | 25.0      | <b>GSM-2425-25</b>   | 32.0 | +0.150                         | 36.0 | 40.0      | <b>GSM-3236-40</b>  |
| 24.0 | +0.040                         | 27.0 | 6.0       | <b>GSM-2427-06</b>   | 35.0 |                                | 39.0 | 14.0      | <b>GSM-3539-14</b>  |
| 24.0 | +0.124                         | 27.0 | 15.0      | <b>GSM-2427-15</b>   | 35.0 |                                | 39.0 | 20.0      | <b>GSM-3539-20</b>  |

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



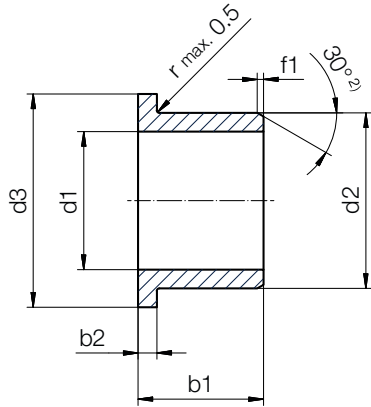
## Sleeve bearing (Form S)

### Dimensions [mm]

| d1   | d1-<br>Tolerance <sup>3)</sup> | d2   | b1<br>h13 | Part No.            | d1    | d1-<br>Tolerance <sup>3)</sup> | d2    | b1<br>h13 | Part No.               |
|------|--------------------------------|------|-----------|---------------------|-------|--------------------------------|-------|-----------|------------------------|
| 35.0 |                                | 39.0 | 25.0      | <b>GSM-3539-25</b>  | 60.0  |                                | 65.0  | 30.0      | <b>GSM-6065-30</b>     |
| 35.0 |                                | 39.0 | 30.0      | <b>GSM-3539-30</b>  | 60.0  |                                | 65.0  | 40.0      | <b>GSM-6065-40</b>     |
| 35.0 |                                | 39.0 | 40.0      | <b>GSM-3539-40</b>  | 60.0  | +0.060                         | 65.0  | 50.0      | <b>GSM-6065-50</b>     |
| 35.0 |                                | 39.0 | 50.0      | <b>GSM-3539-50</b>  | 60.0  | +0.180                         | 65.0  | 60.0      | <b>GSM-6065-60</b>     |
| 35.0 |                                | 41.0 | 50.0      | <b>GSM-3541-50</b>  | 60.0  |                                | 65.0  | 70.0      | <b>GSM-6065-70</b>     |
| 36.0 |                                | 40.0 | 20.0      | <b>GSM-3640-20</b>  | 62.0  | +0.100                         | 67.0  | 35.0      | <b>GSM-6267-35</b>     |
| 37.0 |                                | 41.0 | 20.0      | <b>GSM-3741-20</b>  | 62.0  | +0.250                         | 67.0  | 72.0      | <b>GSM-6267-72</b>     |
| 38.0 |                                | 42.0 | 25.0      | <b>GSM-3842-25</b>  | 62.0  |                                | 67.0  | 72.0      | <b>GSM-6267-72</b>     |
| 40.0 |                                | 44.0 | 10.0      | <b>GSM-4044-10</b>  | 65.0  |                                | 70.0  | 30.0      | <b>GSM-6570-30</b>     |
| 40.0 |                                | 44.0 | 16.5      | <b>GSM-4044-16</b>  | 65.0  |                                | 70.0  | 50.0      | <b>GSM-6570-50</b>     |
| 40.0 |                                | 44.0 | 20.0      | <b>GSM-4044-20</b>  | 65.0  |                                | 70.0  | 104.0     | <b>GSM-6570-104</b>    |
| 40.0 |                                | 44.0 | 30.0      | <b>GSM-4044-30</b>  | 68.0  |                                | 73.0  | 60.0      | <b>GSM-6873-60</b>     |
| 40.0 |                                | 44.0 | 40.0      | <b>GSM-4044-40</b>  | 70.0  | +0.060                         | 75.0  | 60.0      | <b>GSM-7075-60</b>     |
| 40.0 |                                | 44.0 | 50.0      | <b>GSM-4044-50</b>  | 72.0  | +0.180                         | 77.0  | 24.5      | <b>GSM-7277-24.5</b>   |
| 40.0 |                                | 44.0 | 52.5      | <b>GSM-4044-525</b> | 72.0  |                                | 77.0  | 76.0      | <b>GSM-7277-76</b>     |
| 42.0 | +0.050                         | 46.0 | 40.0      | <b>GSM-4246-40</b>  | 75.0  |                                | 80.0  | 40.0      | <b>GSM-7580-40</b>     |
| 44.0 | +0.150                         | 48.0 | 20.0      | <b>GSM-4448-20</b>  | 75.0  |                                | 80.0  | 60.0      | <b>GSM-7580-60</b>     |
| 45.0 |                                | 50.0 | 10.0      | <b>GSM-4550-10</b>  | 80.0  |                                | 85.0  | 60.0      | <b>GSM-8085-60</b>     |
| 45.0 |                                | 50.0 | 20.0      | <b>GSM-4550-20</b>  | 80.0  |                                | 85.0  | 100.0     | <b>GSM-8085-100</b>    |
| 45.0 |                                | 50.0 | 22.0      | <b>GSM-4550-22</b>  | 85.0  |                                | 90.0  | 100.0     | <b>GSM-8590-100</b>    |
| 45.0 |                                | 50.0 | 23.5      | <b>GSM-4550-235</b> | 90.0  |                                | 95.0  | 100.0     | <b>GSM-9095-100</b>    |
| 45.0 |                                | 50.0 | 30.0      | <b>GSM-4550-30</b>  | 95.0  |                                | 100.0 | 100.0     | <b>GSM-95100-100</b>   |
| 45.0 |                                | 50.0 | 38.0      | <b>GSM-4550-38</b>  | 100.0 |                                | 105.0 | 21.5      | <b>GSM-100105-21.5</b> |
| 45.0 |                                | 50.0 | 40.0      | <b>GSM-4550-40</b>  | 100.0 | +0.072                         | 105.0 | 30.0      | <b>GSM-100105-30</b>   |
| 45.0 |                                | 50.0 | 50.0      | <b>GSM-4550-50</b>  | 100.0 | +0.212                         | 105.0 | 32.0      | <b>GSM-100105-32</b>   |
| 50.0 |                                | 55.0 | 20.0      | <b>GSM-5055-20</b>  | 100.0 |                                | 105.0 | 100.0     | <b>GSM-100105-100</b>  |
| 50.0 |                                | 55.0 | 25.0      | <b>GSM-5055-25</b>  | 105.0 |                                | 110.0 | 100.0     | <b>GSM-105110-100</b>  |
| 50.0 |                                | 55.0 | 30.0      | <b>GSM-5055-30</b>  | 110.0 |                                | 115.0 | 100.0     | <b>GSM-110115-100</b>  |
| 50.0 |                                | 55.0 | 40.0      | <b>GSM-5055-40</b>  | 120.0 |                                | 125.0 | 100.0     | <b>GSM-120125-100</b>  |
| 50.0 |                                | 55.0 | 50.0      | <b>GSM-5055-50</b>  | 125.0 |                                | 130.0 | 100.0     | <b>GSM-125130-100</b>  |
| 50.0 |                                | 55.0 | 60.0      | <b>GSM-5055-60</b>  | 130.0 |                                | 135.0 | 100.0     | <b>GSM-130135-100</b>  |
| 52.0 |                                | 57.0 | 20.0      | <b>GSM-5257-20</b>  | 135.0 | +0.085                         | 140.0 | 80.0      | <b>GSM-135140-80</b>   |
| 55.0 | +0.060                         | 60.0 | 20.0      | <b>GSM-5560-20</b>  | 140.0 | +0.245                         | 145.0 | 100.0     | <b>GSM-140145-100</b>  |
| 55.0 | +0.180                         | 60.0 | 40.0      | <b>GSM-5560-40</b>  | 140.0 |                                | 145.0 | 104.0     | <b>GSM-140145-104</b>  |
| 55.0 |                                | 60.0 | 50.0      | <b>GSM-5560-50</b>  | 150.0 |                                | 155.0 | 100.0     | <b>GSM-150155-100</b>  |
| 55.0 |                                | 60.0 | 60.0      | <b>GSM-5560-60</b>  |       |                                |       |           |                        |

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

## Flange bearing (Form F)



<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-<br>Tolerance <sup>3)</sup> | d2  | d3<br>d13 | b1<br>h13 | b2<br>-0.14 | Part No.             |
|-----|--------------------------------|-----|-----------|-----------|-------------|----------------------|
| 3.0 |                                | 4.5 | 7.5       | 2.0       | 0.5         | <b>GFM-0304-02</b>   |
| 3.0 |                                | 4.5 | 7.0       | 2.7       | 0.75        | <b>GFM-0304-0275</b> |
| 3.0 | +0.014                         | 4.5 | 7.5       | 3.0       | 0.75        | <b>GFM-0304-03</b>   |
| 3.0 | +0.054                         | 4.5 | 7.5       | 5.0       | 0.75        | <b>GFM-0304-05</b>   |
| 3.0 |                                | 4.5 | 7.0       | 5.0       | 0.75        | <b>GFM-030407-05</b> |
| 4.0 | +0.010                         | 5.0 | 9.5       | 4.0       | 0.5         | <b>GFM-04050-04</b>  |
| 4.0 | +0.040                         | 5.0 | 9.5       | 6.0       | 0.5         | <b>GFM-04050-06</b>  |
| 4.0 |                                | 5.5 | 9.5       | 2.5       | 0.75        | <b>GFM-0405-0255</b> |
| 4.0 |                                | 5.5 | 9.5       | 3.0       | 0.75        | <b>GFM-0405-03</b>   |
| 4.0 | +0.020                         | 5.5 | 9.5       | 4.0       | 0.75        | <b>GFM-0405-04</b>   |
| 4.0 | +0.068                         | 5.5 | 9.5       | 6.0       | 0.75        | <b>GFM-0405-06</b>   |
| 4.0 |                                | 5.5 | 8.0       | 10.0      | 1.0         | <b>GFM-040508-10</b> |
| 5.0 |                                | 6.0 | 10.0      | 3.5       | 0.5         | <b>GFM-0506-035</b>  |
| 5.0 |                                | 6.0 | 10.0      | 4.0       | 0.5         | <b>GFM-0506-04</b>   |
| 5.0 | +0.010                         | 6.0 | 10.0      | 5.0       | 0.5         | <b>GFM-0506-05</b>   |
| 5.0 | +0.040                         | 6.0 | 10.0      | 6.0       | 0.5         | <b>GFM-0506-06</b>   |
| 5.0 |                                | 6.0 | 10.0      | 15.3      | 0.5         | <b>GFM-0506-15</b>   |
| 5.0 |                                | 7.0 | 11.0      | 3.5       | 1.0         | <b>GFM-0507-03</b>   |
| 5.0 |                                | 7.0 | 11.0      | 4.0       | 1.0         | <b>GFM-0507-04</b>   |
| 5.0 |                                | 7.0 | 11.0      | 5.0       | 1.0         | <b>GFM-0507-05</b>   |
| 5.0 |                                | 7.0 | 11.0      | 7.0       | 1.0         | <b>GFM-0507-07</b>   |
| 5.0 | +0.020                         | 7.0 | 11.0      | 11.0      | 1.0         | <b>GFM-0507-11</b>   |
| 5.0 | +0.068                         | 7.0 | 11.0      | 14.5      | 1.0         | <b>GFM-0507-145</b>  |
| 5.0 |                                | 7.0 | 11.0      | 30.0      | 1.0         | <b>GFM-0507-30</b>   |
| 5.0 |                                | 7.0 | 9.5       | 5.0       | 1.0         | <b>GFM-050709-05</b> |
| 5.0 |                                | 7.0 | 15.0      | 4.0       | 1.0         | <b>GFM-050715-04</b> |
| 6.0 | +0.010                         | 7.0 | 11.0      | 2.4       | 0.5         | <b>GFM-0607-024</b>  |
| 6.0 | +0.040                         | 7.0 | 11.0      | 4.5       | 0.5         | <b>GFM-0607-045</b>  |

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

## Order key

Type      Dimensions [mm]

**G F M -03 04 -02**

|                   |        |        |            |            |           |
|-------------------|--------|--------|------------|------------|-----------|
| iglidur® material | Form F | Metric | Inner-Ø d1 | Outer-Ø d2 | Length b1 |
|-------------------|--------|--------|------------|------------|-----------|

Dimensions according to ISO 3547-1 and special dimensions

Imperial dimensions available  
► From page 1428

| d1  | d1-<br>Tolerance <sup>3)</sup> | d2  | d3<br>d13 | b1<br>h13 | b2<br>-0.14 | Part No.              |
|-----|--------------------------------|-----|-----------|-----------|-------------|-----------------------|
| 6.0 | +0.010                         | 7.0 | 11.0      | 6.0       | 0.5         | <b>GFM-0607-06</b>    |
| 6.0 | +0.040                         | 7.0 | 11.0      | 10.0      | 0.5         | <b>GFM-0607-10</b>    |
| 6.0 |                                | 8.0 | 12.0      | 2.5       | 1.0         | <b>GFM-0608-025</b>   |
| 6.0 |                                | 8.0 | 12.0      | 4.0       | 1.0         | <b>GFM-0608-04</b>    |
| 6.0 |                                | 8.0 | 12.0      | 4.8       | 1.0         | <b>GFM-0608-048</b>   |
| 6.0 |                                | 8.0 | 12.0      | 5.0       | 1.0         | <b>GFM-0608-05</b>    |
| 6.0 |                                | 8.0 | 12.0      | 6.0       | 1.0         | <b>GFM-0608-06</b>    |
| 6.0 | +0.020                         | 8.0 | 12.0      | 7.0       | 1.0         | <b>GFM-0608-07</b>    |
| 6.0 | +0.068                         | 8.0 | 12.0      | 8.0       | 1.0         | <b>GFM-0608-08</b>    |
| 6.0 |                                | 8.0 | 12.0      | 10.0      | 1.0         | <b>GFM-0608-10</b>    |
| 6.0 |                                | 8.0 | 12.0      | 25.0      | 1.0         | <b>GFM-0608-25</b>    |
| 6.0 |                                | 8.0 | 12.0      | 35.0      | 1.0         | <b>GFM-0608-35</b>    |
| 6.0 |                                | 8.0 | 14.0      | 2.8       | 1.0         | <b>GFM-060814-028</b> |
| 6.0 |                                | 8.0 | 14.0      | 12.0      | 1.0         | <b>GFM-060814-12</b>  |
| 7.0 |                                | 8.0 | 12.0      | 1.7       | 0.5         | <b>GFM-0708-017</b>   |
| 7.0 | +0.013                         | 8.0 | 12.0      | 3.0       | 0.5         | <b>GFM-0708-03</b>    |
| 7.0 | +0.049                         | 8.0 | 12.0      | 6.0       | 0.5         | <b>GFM-0708-06</b>    |
| 7.0 |                                | 8.0 | 12.0      | 8.0       | 0.5         | <b>GFM-0708-08</b>    |
| 7.0 |                                | 9.0 | 15.0      | 3.5       | 1.0         | <b>GFM-0709-035</b>   |
| 7.0 |                                | 9.0 | 15.0      | 6.0       | 1.0         | <b>GFM-0709-06</b>    |
| 7.0 | +0.025                         | 9.0 | 15.0      | 10.0      | 1.0         | <b>GFM-0709-10</b>    |
| 7.0 | +0.083                         | 9.0 | 15.0      | 12.0      | 1.0         | <b>GFM-0709-12</b>    |
| 7.0 |                                | 9.0 | 19.0      | 10.0      | 1.0         | <b>GFM-070919-10</b>  |
| 8.0 |                                | 9.0 | 15.0      | 3.0       | 0.5         | <b>GFM-0809-03</b>    |
| 8.0 |                                | 9.0 | 13.0      | 3.5       | 0.5         | <b>GFM-0809-035</b>   |
| 8.0 | +0.013                         | 9.0 | 13.0      | 5.5       | 0.5         | <b>GFM-0809-055</b>   |
| 8.0 | +0.049                         | 9.0 | 13.0      | 8.0       | 0.5         | <b>GFM-0809-08</b>    |
| 8.0 |                                | 9.0 | 13.0      | 12.0      | 0.5         | <b>GFM-0809-12</b>    |

## Flange bearing (Form F)

### Dimensions [mm]

| d1   | d1-<br>Tolerance <sup>3)</sup> | d2   | d3<br>d13 | b1<br>h13 | b2<br>-0.14 | Part No.              |
|------|--------------------------------|------|-----------|-----------|-------------|-----------------------|
| 8.0  |                                | 10.0 | 15.0      | 3.0       | 1.0         | <b>GFM-0810-03</b>    |
| 8.0  |                                | 10.0 | 15.0      | 4.0       | 1.0         | <b>GFM-0810-04</b>    |
| 8.0  |                                | 10.0 | 15.0      | 5.5       | 1.0         | <b>GFM-0810-05</b>    |
| 8.0  |                                | 10.0 | 15.0      | 6.5       | 1.0         | <b>GFM-0810-065</b>   |
| 8.0  |                                | 10.0 | 15.0      | 7.5       | 1.0         | <b>GFM-0810-07</b>    |
| 8.0  |                                | 10.0 | 15.0      | 9.5       | 1.0         | <b>GFM-0810-09</b>    |
| 8.0  | +0.025                         | 10.0 | 15.0      | 10.0      | 1.0         | <b>GFM-0810-10</b>    |
| 8.0  | +0.083                         | 10.0 | 14.0      | 11.0      | 1.0         | <b>GFM-0810-11</b>    |
| 8.0  |                                | 10.0 | 15.0      | 15.0      | 1.0         | <b>GFM-0810-15</b>    |
| 8.0  |                                | 10.0 | 15.0      | 25.0      | 1.0         | <b>GFM-0810-25</b>    |
| 8.0  |                                | 10.0 | 15.0      | 30.0      | 1.0         | <b>GFM-0810-30</b>    |
| 8.0  |                                | 10.0 | 12.0      | 12.5      | 1.0         | <b>GFM-081012-125</b> |
| 8.0  |                                | 10.0 | 13.0      | 8.0       | 1.0         | <b>GFM-081013-08</b>  |
| 8.0  | +0.040<br>+0.098               | 10.0 | 14.0      | 5.0       | 1.0         | <b>GFM-081014-05</b>  |
| 8.0  | +0.025                         | 10.0 | 14.0      | 6.0       | 1.0         | <b>GFM-081014-06</b>  |
| 8.0  | +0.083                         | 10.0 | 14.0      | 8.0       | 1.0         | <b>GFM-081014-08</b>  |
| 8.0  | +0.040<br>+0.098               | 10.0 | 14.0      | 10.0      | 1.0         | <b>GFM-081014-10</b>  |
| 8.0  |                                | 10.0 | 16.0      | 11.5      | 1.5         | <b>GFM-081016-11</b>  |
| 8.0  | +0.025                         | 10.0 | 16.0      | 15.0      | 1.5         | <b>GFM-081016-15</b>  |
| 8.0  | +0.083                         | 10.0 | 17.0      | 15.0      | 1.0         | <b>GFM-081017-15</b>  |
| 8.0  |                                | 10.0 | 18.0      | 3.0       | 1.0         | <b>GFM-081018-03</b>  |
| 8.0  | +0.040                         | 12.0 | 16.0      | 6.0       | 2.0         | <b>GFM-0812-06</b>    |
| 8.0  | +0.130                         | 12.0 | 21.0      | 8.0       | 2.0         | <b>GFM-081221-08</b>  |
| 9.0  | +0.013                         | 10.0 | 15.0      | 6.5       | 0.5         | <b>GFM-0910-065</b>   |
| 9.0  | +0.049                         | 10.0 | 15.0      | 17.5      | 0.5         | <b>GFM-0910-17</b>    |
| 10.0 | +0.013<br>+0.046               | 11.0 | 20.0      | 3.5       | 0.5         | <b>GFM-1011-03</b>    |
| 10.0 | +0.013                         | 11.0 | 15.0      | 4.4       | 0.5         | <b>GFM-1011-044</b>   |
| 10.0 | +0.049                         | 11.0 | 15.0      | 10.0      | 0.5         | <b>GFM-1011-10</b>    |
| 10.0 |                                | 12.0 | 18.0      | 3.5       | 1.0         | <b>GFM-1012-035</b>   |
| 10.0 |                                | 12.0 | 18.0      | 4.0       | 1.0         | <b>GFM-1012-04</b>    |
| 10.0 |                                | 12.0 | 18.0      | 5.0       | 1.0         | <b>GFM-1012-05</b>    |
| 10.0 |                                | 12.0 | 18.0      | 6.0       | 1.0         | <b>GFM-1012-06</b>    |
| 10.0 |                                | 12.0 | 18.0      | 7.0       | 1.0         | <b>GFM-1012-07</b>    |
| 10.0 |                                | 12.0 | 18.0      | 9.0       | 1.0         | <b>GFM-1012-09</b>    |
| 10.0 | +0.025                         | 12.0 | 18.0      | 10.0      | 1.0         | <b>GFM-1012-10</b>    |
| 10.0 | +0.083                         | 12.0 | 18.0      | 12.0      | 1.0         | <b>GFM-1012-12</b>    |
| 10.0 |                                | 12.0 | 18.0      | 15.0      | 1.0         | <b>GFM-1012-15</b>    |
| 10.0 |                                | 12.0 | 18.0      | 17.0      | 1.0         | <b>GFM-1012-17</b>    |
| 10.0 |                                | 12.0 | 15.0      | 12.0      | 1.0         | <b>GFM-101215-12</b>  |
| 10.0 |                                | 12.0 | 16.0      | 6.0       | 1.0         | <b>GFM-101216-06</b>  |
| 10.0 |                                | 12.0 | 16.0      | 9.0       | 1.0         | <b>GFM-101216-09</b>  |
| 10.0 |                                | 12.0 | 16.0      | 15.0      | 1.0         | <b>GFM-101216-15</b>  |

| d1   | d1-<br>Tolerance <sup>3)</sup> | d2   | d3<br>d13 | b1<br>h13 | b2<br>-0.14 | Part No.             |
|------|--------------------------------|------|-----------|-----------|-------------|----------------------|
| 11.0 |                                | 12.0 | 16.0      | 6.0       | 0.5         | <b>GFM-1112-06</b>   |
| 12.0 | +0.016                         | 13.0 | 17.0      | 3.0       | 0.5         | <b>GFM-1213-03</b>   |
| 12.0 | +0.059                         | 13.0 | 15.0      | 12.0      | 0.5         | <b>GFM-121315-12</b> |
| 12.0 |                                | 13.0 | 17.0      | 12.0      | 0.5         | <b>GFM-1213-12</b>   |
| 12.0 |                                | 14.0 | 20.0      | 3.0       | 1.0         | <b>GFM-1214-03</b>   |
| 12.0 |                                | 14.0 | 20.0      | 5.0       | 1.0         | <b>GFM-1214-05</b>   |
| 12.0 |                                | 14.0 | 20.0      | 6.0       | 1.0         | <b>GFM-1214-06</b>   |
| 12.0 |                                | 14.0 | 20.0      | 7.0       | 1.0         | <b>GFM-1214-07</b>   |
| 12.0 |                                | 14.0 | 20.0      | 9.0       | 1.0         | <b>GFM-1214-09</b>   |
| 12.0 |                                | 14.0 | 20.0      | 10.0      | 1.0         | <b>GFM-1214-10</b>   |
| 12.0 |                                | 14.0 | 20.0      | 11.0      | 1.0         | <b>GFM-1214-11</b>   |
| 12.0 |                                | 14.0 | 20.0      | 12.0      | 1.0         | <b>GFM-1214-12</b>   |
| 12.0 |                                | 14.0 | 20.0      | 15.0      | 1.0         | <b>GFM-1214-15</b>   |
| 12.0 |                                | 14.0 | 20.0      | 17.0      | 1.0         | <b>GFM-1214-17</b>   |
| 12.0 |                                | 14.0 | 20.0      | 20.0      | 1.0         | <b>GFM-1214-20</b>   |
| 12.0 |                                | 14.0 | 20.0      | 24.0      | 1.0         | <b>GFM-1214-24</b>   |
| 12.0 |                                | 14.0 | 20.0      | 31.0      | 1.0         | <b>GFM-1214-31</b>   |
| 12.0 |                                | 14.0 | 20.0      | 40.0      | 1.0         | <b>GFM-1214-40</b>   |
| 12.0 |                                | 14.0 | 18.0      | 4.0       | 1.0         | <b>GFM-121418-04</b> |
| 12.0 | +0.032<br>+0.102               | 14.0 | 18.0      | 8.0       | 1.0         | <b>GFM-121418-08</b> |
| 12.0 |                                | 14.0 | 18.0      | 10.0      | 1.0         | <b>GFM-121418-10</b> |
| 12.0 |                                | 14.0 | 18.0      | 12.0      | 1.0         | <b>GFM-121418-12</b> |
| 12.0 |                                | 14.0 | 18.0      | 15.0      | 1.0         | <b>GFM-121418-15</b> |
| 12.0 |                                | 14.0 | 18.0      | 20.0      | 1.0         | <b>GFM-121418-20</b> |
| 13.0 |                                | 15.0 | 22.0      | 6.0       | 1.0         | <b>GFM-1315-06</b>   |
| 13.0 |                                | 15.0 | 22.0      | 8.0       | 1.0         | <b>GFM-1315-08</b>   |
| 13.0 |                                | 15.0 | 22.0      | 40.0      | 1.0         | <b>GFM-131522-40</b> |
| 14.0 |                                | 16.0 | 22.0      | 3.0       | 1.0         | <b>GFM-1416-03</b>   |
| 14.0 |                                | 16.0 | 22.0      | 4.0       | 1.0         | <b>GFM-1416-04</b>   |
| 14.0 |                                | 16.0 | 22.0      | 6.0       | 1.0         | <b>GFM-1416-06</b>   |
| 14.0 |                                | 16.0 | 22.0      | 8.0       | 1.0         | <b>GFM-1416-08</b>   |
| 14.0 |                                | 16.0 | 22.0      | 10.0      | 1.0         | <b>GFM-1416-10</b>   |
| 14.0 |                                | 16.0 | 22.0      | 12.0      | 1.0         | <b>GFM-1416-12</b>   |
| 14.0 |                                | 16.0 | 22.0      | 17.0      | 1.0         | <b>GFM-1416-17</b>   |
| 14.0 |                                | 16.0 | 22.0      | 21.0      | 1.0         | <b>GFM-1416-21</b>   |
| 15.0 |                                | 16.0 | 20.0      | 2.0       | 0.5         | <b>GFM-1516-02</b>   |
| 15.0 | +0.016                         | 16.0 | 20.0      | 2.5       | 0.5         | <b>GFM-1516-025</b>  |
| 15.0 | +0.059                         | 16.0 | 20.0      | 3.0       | 0.5         | <b>GFM-1516-03</b>   |
| 15.0 |                                | 16.0 | 20.0      | 15.0      | 0.5         | <b>GFM-1516-15</b>   |
| 15.0 |                                | 17.0 | 23.0      | 4.0       | 1.0         | <b>GFM-1517-04</b>   |
| 15.0 |                                | 17.0 | 23.0      | 4.5       | 1.0         | <b>GFM-1517-045</b>  |
| 15.0 | +0.032                         | 17.0 | 23.0      | 5.0       | 1.0         | <b>GFM-1517-05</b>   |
| 15.0 | +0.102                         | 17.0 | 23.0      | 9.0       | 1.0         | <b>GFM-1517-09</b>   |
| 15.0 |                                | 17.0 | 23.0      | 12.0      | 1.0         | <b>GFM-1517-12</b>   |
| 15.0 |                                | 17.0 | 23.0      | 17.0      | 1.0         | <b>GFM-1517-17</b>   |

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

## Flange bearing (Form F)

## Dimensions [mm]

| d1   | d1-<br>Tolerance <sup>3)</sup> | d2   | d3   | b1   | b2    | Part No.       | d1   | d1-<br>Tolerance <sup>3)</sup> | d2   | d3   | b1   | b2    | Part No.      |
|------|--------------------------------|------|------|------|-------|----------------|------|--------------------------------|------|------|------|-------|---------------|
|      |                                |      | d13  | h13  | -0.14 |                |      |                                |      | d13  | h13  | -0.14 |               |
| 15.0 |                                | 17.0 | 23.0 | 20.0 | 1.0   | GFM-1517-20    | 25.0 |                                | 27.0 | 32.0 | 7.0  | 1.0   | GFM-2527-07   |
| 15.0 |                                | 18.0 | 24.0 | 32.0 | 1.5   | GFM-151824-32  | 25.0 |                                | 27.0 | 32.0 | 48.0 | 1.0   | GFM-2527-48   |
| 16.0 |                                | 18.0 | 24.0 | 4.0  | 1.0   | GFM-1618-04    | 25.0 |                                | 28.0 | 35.0 | 11.5 | 1.5   | GFM-2528-11   |
| 16.0 |                                | 18.0 | 24.0 | 5.0  | 1.0   | GFM-1618-05    | 25.0 |                                | 28.0 | 35.0 | 16.5 | 1.5   | GFM-2528-16   |
| 16.0 |                                | 18.0 | 24.0 | 6.0  | 1.0   | GFM-1618-06    | 25.0 |                                | 28.0 | 35.0 | 21.5 | 1.5   | GFM-2528-21   |
| 16.0 |                                | 18.0 | 24.0 | 9.0  | 1.0   | GFM-1618-09    | 25.0 |                                | 28.0 | 30.0 | 10.0 | 1.5   | GFM-252830-10 |
| 16.0 |                                | 18.0 | 24.0 | 12.0 | 1.0   | GFM-1618-12    | 26.0 |                                | 30.0 | 37.0 | 12.0 | 2.0   | GFM-2630-12   |
| 16.0 |                                | 18.0 | 24.0 | 16.0 | 1.0   | GFM-1618-16    | 27.0 |                                | 30.0 | 38.0 | 20.0 | 1.5   | GFM-2730-20   |
| 16.0 |                                | 18.0 | 24.0 | 17.0 | 1.0   | GFM-1618-17    | 28.0 |                                | 30.0 | 36.0 | 10.0 | 1.0   | GFM-2830-10   |
| 16.0 |                                | 18.0 | 24.0 | 21.0 | 1.0   | GFM-1618-21    | 28.0 |                                | 30.0 | 35.0 | 36.0 | 1.0   | GFM-2830-36   |
| 17.0 |                                | 19.0 | 25.0 | 9.0  | 1.0   | GFM-1719-09    | 28.0 |                                | 30.0 | 35.0 | 48.0 | 1.0   | GFM-2830-48   |
| 17.0 | +0.032                         | 19.0 | 25.0 | 16.0 | 1.0   | GFM-1719-16    | 28.0 |                                | 30.0 | 36.0 | 31.0 | 1.0   | GFM-283036-31 |
| 17.0 | +0.102                         | 19.0 | 25.0 | 25.0 | 1.0   | GFM-1719-25    | 28.0 | +0.040                         | 32.0 | 39.0 | 20.0 | 2.0   | GFM-283239-20 |
| 18.0 |                                | 20.0 | 26.0 | 4.0  | 1.0   | GFM-1820-04    | 28.0 | +0.124                         | 32.0 | 50.0 | 35.0 | 2.0   | GFM-283250-35 |
| 18.0 |                                | 20.0 | 26.0 | 6.0  | 1.0   | GFM-1820-06    | 30.0 |                                | 31.0 | 36.0 | 20.0 | 0.5   | GFM-3031-20   |
| 18.0 |                                | 20.0 | 26.0 | 9.0  | 1.0   | GFM-1820-09    | 30.0 |                                | 31.0 | 35.0 | 30.0 | 0.5   | GFM-3031-30   |
| 18.0 |                                | 20.0 | 26.0 | 11.0 | 1.0   | GFM-1820-11    | 30.0 |                                | 32.0 | 37.0 | 4.0  | 1.0   | GFM-3032-04   |
| 18.0 |                                | 20.0 | 26.0 | 12.0 | 1.0   | GFM-1820-12    | 30.0 |                                | 32.0 | 37.0 | 12.0 | 1.0   | GFM-3032-12   |
| 18.0 |                                | 20.0 | 26.0 | 17.0 | 1.0   | GFM-1820-17    | 30.0 |                                | 32.0 | 37.0 | 17.5 | 1.0   | GFM-3032-17   |
| 18.0 |                                | 20.0 | 26.0 | 22.0 | 1.0   | GFM-1820-22    | 30.0 |                                | 32.0 | 37.0 | 22.0 | 1.0   | GFM-3032-22   |
| 18.0 |                                | 20.0 | 26.0 | 30.0 | 1.0   | GFM-1820-30    | 30.0 |                                | 34.0 | 42.0 | 9.0  | 2.0   | GFM-3034-09   |
| 18.0 |                                | 20.0 | 26.0 | 32.0 | 1.0   | GFM-1820-32    | 30.0 |                                | 34.0 | 42.0 | 16.0 | 2.0   | GFM-3034-16   |
| 18.0 |                                | 20.0 | 22.0 | 6.0  | 1.0   | GFM-182022-06  | 30.0 |                                | 34.0 | 42.0 | 20.0 | 2.0   | GFM-3034-20   |
| 18.0 |                                | 22.0 | 26.0 | 28.0 | 2.0   | GFM-1822-28    | 30.0 |                                | 34.0 | 42.0 | 26.0 | 2.0   | GFM-3034-26   |
| 20.0 |                                | 21.0 | 26.0 | 3.5  | 0.5   | GFM-2021-035   | 30.0 |                                | 34.0 | 42.0 | 37.0 | 2.0   | GFM-3034-37   |
| 20.0 | +0.020                         | 21.0 | 25.0 | 15.0 | 0.5   | GFM-2021-15    | 30.0 |                                | 34.0 | 40.0 | 10.0 | 2.0   | GFM-303440-10 |
| 20.0 | +0.072                         | 21.0 | 25.0 | 20.0 | 0.5   | GFM-2021-20    | 32.0 |                                | 36.0 | 40.0 | 16.0 | 2.0   | GFM-3236-16   |
| 20.0 |                                | 23.0 | 30.0 | 7.0  | 1.5   | GFM-2023-07    | 32.0 |                                | 36.0 | 40.0 | 26.0 | 2.0   | GFM-3236-26   |
| 20.0 |                                | 23.0 | 30.0 | 11.5 | 1.5   | GFM-2023-11    | 34.0 |                                | 38.0 | 50.0 | 35.0 | 2.0   | GFM-343850-35 |
| 20.0 |                                | 23.0 | 30.0 | 16.5 | 1.5   | GFM-2023-16    | 35.0 |                                | 39.0 | 47.0 | 5.8  | 2.0   | GFM-3539-058  |
| 20.0 |                                | 23.0 | 30.0 | 21.5 | 1.5   | GFM-2023-21    | 35.0 |                                | 39.0 | 47.0 | 7.0  | 2.0   | GFM-3539-07   |
| 20.0 |                                | 23.0 | 26.0 | 7.0  | 1.5   | GFM-202326-07  | 35.0 |                                | 39.0 | 47.0 | 12.0 | 2.0   | GFM-3539-12   |
| 20.0 |                                | 23.0 | 26.0 | 21.5 | 1.5   | GFM-202326-21  | 35.0 |                                | 39.0 | 47.0 | 16.0 | 2.0   | GFM-3539-16   |
| 20.0 |                                | 23.0 | 28.0 | 15.0 | 1.5   | GFM-202328-15  | 35.0 |                                | 39.0 | 47.0 | 26.0 | 2.0   | GFM-3539-26   |
| 20.0 | +0.040                         | 23.0 | 29.0 | 20.0 | 1.5   | GFM-202329-20  | 35.0 | +0.050                         | 39.0 | 47.0 | 36.0 | 2.0   | GFM-3539-36   |
| 22.0 | +0.124                         | 24.0 | 30.0 | 25.0 | 1.0   | GFM-2224-25    | 38.0 | +0.150                         | 42.0 | 54.0 | 22.0 | 2.0   | GFM-3842-22   |
| 22.0 |                                | 25.0 | 29.0 | 4.5  | 1.5   | GFM-222529-045 | 40.0 |                                | 44.0 | 52.0 | 7.0  | 2.0   | GFM-4044-07   |
| 22.0 |                                | 25.0 | 30.0 | 21.5 | 1.5   | GFM-222530-215 | 40.0 |                                | 44.0 | 52.0 | 14.0 | 2.0   | GFM-4044-14   |
| 22.0 |                                | 25.0 | 30.0 | 25.0 | 1.5   | GFM-222530-25  | 40.0 |                                | 44.0 | 52.0 | 20.0 | 2.0   | GFM-4044-20   |
| 22.0 |                                | 25.0 | 35.0 | 31.5 | 1.5   | GFM-222535-315 | 40.0 |                                | 44.0 | 52.0 | 30.0 | 2.0   | GFM-4044-30   |
| 24.0 |                                | 27.0 | 32.0 | 7.0  | 1.5   | GFM-2427-07    | 40.0 |                                | 44.0 | 52.0 | 40.0 | 2.0   | GFM-4044-40   |
| 24.0 |                                | 27.0 | 32.0 | 10.5 | 1.5   | GFM-2427-10    | 40.0 |                                | 44.0 | 52.0 | 50.0 | 2.0   | GFM-4044-50   |
| 25.0 | +0.020                         | 26.0 | 30.0 | 25.0 | 0.5   | GFM-2526-25    | 40.0 |                                | 46.0 | 50.0 | 20.0 | 2.0   | GFM-4046-20   |
|      | +0.072                         |      |      |      |       |                | 42.0 |                                | 46.0 | 53.0 | 19.0 | 2.0   | GFM-4246-19   |

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

## Flange bearing (Form F)

### Dimensions [mm]

| d1   | d1-<br>Tolerance <sup>3)</sup> | d2   | d3<br>d13 | b1<br>h13 | b2<br>-0.14 | Part No.             |
|------|--------------------------------|------|-----------|-----------|-------------|----------------------|
| 45.0 |                                | 50.0 | 58.0      | 25.0      | 2.0         | <b>GFM-4550-25</b>   |
| 45.0 |                                | 50.0 | 58.0      | 30.0      | 2.0         | <b>GFM-4550-30</b>   |
| 45.0 |                                | 50.0 | 58.0      | 50.0      | 2.0         | <b>GFM-4550-50</b>   |
| 50.0 | +0.050                         | 55.0 | 63.0      | 7.0       | 2.0         | <b>GFM-5055-07</b>   |
| 50.0 | +0.150                         | 55.0 | 63.0      | 10.0      | 2.0         | <b>GFM-5055-10</b>   |
| 50.0 |                                | 55.0 | 63.0      | 25.0      | 2.0         | <b>GFM-5055-25</b>   |
| 50.0 |                                | 55.0 | 63.0      | 40.0      | 2.0         | <b>GFM-5055-40</b>   |
| 50.0 |                                | 55.0 | 63.0      | 50.0      | 2.0         | <b>GFM-5055-50</b>   |
| 60.0 |                                | 65.0 | 73.0      | 7.0       | 2.0         | <b>GFM-6065-07</b>   |
| 60.0 |                                | 65.0 | 73.0      | 22.0      | 2.0         | <b>GFM-6065-22</b>   |
| 60.0 |                                | 65.0 | 73.0      | 30.0      | 2.0         | <b>GFM-6065-30</b>   |
| 60.0 |                                | 65.0 | 73.0      | 50.0      | 2.0         | <b>GFM-6065-50</b>   |
| 60.0 | +0.060                         | 65.0 | 80.0      | 62.0      | 2.0         | <b>GFM-606580-62</b> |
| 65.0 | +0.180                         | 70.0 | 78.0      | 50.0      | 2.0         | <b>GFM-6570-50</b>   |
| 70.0 |                                | 75.0 | 83.0      | 50.0      | 2.0         | <b>GFM-7075-50</b>   |
| 70.0 |                                | 75.0 | 83.0      | 85.5      | 2.0         | <b>GFM-7075-855</b>  |
| 75.0 |                                | 80.0 | 88.0      | 50.0      | 2.0         | <b>GFM-7580-50</b>   |

| d1    | d1-<br>Tolerance <sup>3)</sup> | d2    | d3<br>d13 | b1<br>h13 | b2<br>-0.14 | Part No.                |
|-------|--------------------------------|-------|-----------|-----------|-------------|-------------------------|
| 80.0  | +0.060                         | 85.0  | 93.0      | 50.0      | 2.5         | <b>GFM-8085-50</b>      |
| 80.0  | +0.180                         | 85.0  | 93.0      | 100.0     | 2.5         | <b>GFM-8085-100</b>     |
| 85.0  |                                | 90.0  | 98.0      | 100.0     | 2.5         | <b>GFM-8590-100</b>     |
| 90.0  |                                | 95.0  | 103.0     | 100.0     | 2.5         | <b>GFM-9095-100</b>     |
| 95.0  |                                | 100.0 | 108.0     | 100.0     | 2.5         | <b>GFM-95100-100</b>    |
| 100.0 | +0.072                         | 105.0 | 113.0     | 42.5      | 2.5         | <b>GFM-100105-425</b>   |
| 100.0 | +0.212                         | 105.0 | 113.0     | 100.0     | 2.5         | <b>GFM-100105-100</b>   |
| 110.0 |                                | 115.0 | 123.0     | 100.0     | 2.5         | <b>GFM-110115-100</b>   |
| 120.0 |                                | 125.0 | 133.0     | 80.0      | 2.5         | <b>GFM-120125-80</b>    |
| 120.0 |                                | 125.0 | 133.0     | 100.0     | 2.5         | <b>GFM-120125-100</b>   |
| 125.0 |                                | 130.0 | 138.0     | 100.0     | 2.5         | <b>GFM-125130-100</b>   |
| 130.0 |                                | 135.0 | 143.0     | 100.0     | 2.5         | <b>GFM-130135-100</b>   |
| 140.0 | +0.085                         | 145.0 | 153.0     | 100.0     | 2.5         | <b>GFM-140145-100</b>   |
| 150.0 | +0.245                         | 155.0 | 163.0     | 40.0      | 2.5         | <b>GFM-150155-40</b>    |
| 150.0 |                                | 155.0 | 163.0     | 100.0     | 2.5         | <b>GFM-150155-100</b>   |
| 195.0 | +0.100<br>+0.285               | 205.0 | 240.0     | 65.0      | 5.0         | <b>GFM-195205240-65</b> |

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



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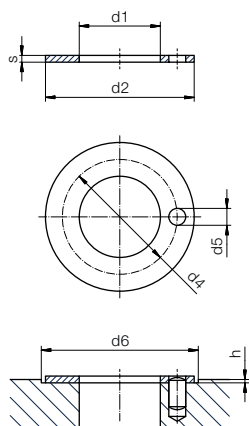


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## Thrust Washer (Form T)


 Order key

Type

Dimensions [mm]

G T M-04 08-005

iglidur® material


Form T


Metric

Inner-Ø d1

Outer-Ø d2

Thickness s

 Dimensions according to ISO 3547-1 and special dimensions

 Imperial dimensions available  
 ► From page 1445

## Dimensions [mm]

| d1    | d2    | s           | d4             | d5               | h            | d6    | Part No.     |
|-------|-------|-------------|----------------|------------------|--------------|-------|--------------|
| +0.25 | -0.25 | -0.05       | -0.12<br>+0.12 | +0.375<br>+0.125 | +0.2<br>-0.2 | +0.12 |              |
| 4.0   | 8.0   | 0.5         | 4)             | 4)               | 0.2          | 8.0   | GTM-0408-005 |
| 4.0   | 9.0   | 0.6         | 4)             | 4)               | 0.3          | 9.0   | GTM-0409-006 |
| 4.0   | 9.0   | 1.6         | 4)             | 4)               | 0.3          | 9.0   | GTM-0409-016 |
| 4.0   | 10.0  | 0.5         | 4)             | 4)               | 0.2          | 10.0  | GTM-0410-005 |
| 4.0   | 11.0  | 0.5 (-0.06) | 4)             | 4)               | 0.2          | 11.0  | GTM-0411-005 |
| 5.0   | 9.5   | 0.6         | 4)             | 4)               | 0.3          | 9.5   | GTM-0509-006 |
| 6.0   | 11.0  | 1.0         | 4)             | 4)               | 0.7          | 11.0  | GTM-0611-010 |
| 6.0   | 12.0  | 1.5         | 4)             | 4)               | 1.0          | 12.0  | GTM-0612-015 |
| 6.0   | 15.0  | 1.5         | 4)             | 4)               | 1.0          | 15.0  | GTM-0615-015 |
| 6.0   | 20.0  | 1.5         | 13.0           | 1.5              | 1.0          | 20.0  | GTM-0620-015 |
| 7.0   | 12.0  | 0.5         | 4)             | 4)               | 0.2          | 12.0  | GTM-0712-005 |
| 7.0   | 13.0  | 0.5         | 4)             | 4)               | 0.2          | 13.0  | GTM-0713-005 |
| 8.0   | 15.0  | 0.5         | 4)             | 4)               | 0.2          | 15.0  | GTM-0815-005 |
| 8.0   | 15.0  | 1.5         | 4)             | 4)               | 1.0          | 15.0  | GTM-0815-015 |
| 8.0   | 18.0  | 1.0         | 4)             | 4)               | 0.7          | 18.0  | GTM-0818-010 |
| 8.0   | 18.0  | 1.5         | 13.0           | 1.5              | 1.0          | 18.0  | GTM-0818-015 |
| 8.0   | 18.0  | 2.0         | 4)             | 4)               | 1.5          | 18.0  | GTM-0818-020 |
| 9.0   | 13.0  | 1.0         | 4)             | 4)               | 0.7          | 13.0  | GTM-0913-010 |
| 9.0   | 18.0  | 1.5         | 13.5           | 1.5              | 1.0          | 18.0  | GTM-0918-015 |
| 10.0  | 17.8  | 0.5         | 4)             | 4)               | 0.2          | 17.8  | GTM-1018-005 |
| 10.0  | 18.0  | 1.0         | 4)             | 4)               | 0.7          | 18.0  | GTM-1018-010 |
| 10.0  | 18.0  | 1.5         | 4)             | 4)               | 1.0          | 18.0  | GTM-1018-015 |
| 10.0  | 18.0  | 2.0         | 4)             | 4)               | 1.5          | 18.0  | GTM-1018-020 |
| 10.0  | 20.0  | 1.5         | 4)             | 4)               | 0.7          | 20.0  | GTM-1020-015 |
| 11.0  | 15.0  | 1.0         | 4)             | 4)               | 0.7          | 15.0  | GTM-1115-010 |
| 11.0  | 27.0  | 0.5         | 4)             | 4)               | 0.2          | 27.0  | GTM-1127-005 |
| 12.0  | 24.0  | 1.5         | 18.0           | 1.5              | 1.0          | 24.0  | GTM-1224-015 |
| 12.2  | 30.0  | 1.5         | 4)             | 4)               | 1.0          | 30.0  | GTM-1230-015 |

4) Design without fixing bore



## Thrust washer

### Dimensions [mm]

| d1    | d2    | s     | d4             | d5               | h            | d6    | Part No.      |
|-------|-------|-------|----------------|------------------|--------------|-------|---------------|
| +0.25 | -0.25 | -0.05 | -0.12<br>+0.12 | +0.375<br>+0.125 | +0.2<br>-0.2 | +0.12 |               |
| 14.0  | 20.0  | 1.5   | 4)             | 4)               | 1.0          | 20.0  | GTM-1420-015  |
| 14.0  | 26.0  | 1.5   | 20.0           | 2.0              | 1.0          | 26.0  | GTM-1426-015  |
| 15.0  | 22.0  | 0.8   | 4)             | 4)               | 0.5          | 22.0  | GTM-1522-008  |
| 15.0  | 19.0  | 0.8   | 4)             | 4)               | 0.5          | 19.0  | GTM-1519-008  |
| 15.0  | 24.0  | 1.5   | 19.5           | 1.5              | 1.0          | 24.0  | GTM-1524-015  |
| 15.0  | 24.0  | 2.75  | 4)             | 4)               | 2.0          | 24.0  | GTM-1524-0275 |
| 16.0  | 28.0  | 1.0   | 4)             | 4)               | 0.7          | 28.0  | GTM-1628-010  |
| 16.0  | 30.0  | 1.5   | 22.0           | 2.0              | 1.0          | 30.0  | GTM-1630-015  |
| 18.0  | 32.0  | 1.5   | 25.0           | 2.0              | 1.0          | 32.0  | GTM-1832-015  |
| 20.0  | 36.0  | 1.5   | 28.0           | 3.0              | 1.0          | 36.0  | GTM-2036-015  |
| 22.0  | 30.0  | 1.5   | 4)             | 4)               | 1.0          | 30.0  | GTM-2230-015  |
| 22.0  | 38.0  | 1.5   | 30.0           | 3.0              | 1.0          | 38.0  | GTM-2238-015  |
| 24.0  | 42.0  | 1.5   | 33.0           | 3.0              | 1.0          | 42.0  | GTM-2442-015  |
| 26.0  | 44.0  | 1.5   | 35.0           | 3.0              | 1.0          | 44.0  | GTM-2644-015  |
| 28.5  | 35.8  | 0.5   | 4)             | 4)               | 0.2          | 35.8  | GTM-2835-005  |
| 28.0  | 48.0  | 1.5   | 38.0           | 4.0              | 1.0          | 48.0  | GTM-2848-015  |
| 32.0  | 45.8  | 1.0   | 4)             | 4)               | 0.7          | 45.8  | GTM-3246-010  |
| 32.0  | 54.0  | 1.5   | 43.0           | 4.0              | 1.0          | 54.0  | GTM-3254-015  |
| 38.0  | 62.0  | 1.5   | 50.0           | 4.0              | 1.0          | 62.0  | GTM-3862-015  |
| 42.0  | 66.0  | 1.5   | 54.0           | 4.0              | 1.0          | 66.0  | GTM-4266-015  |
| 48.0  | 60.0  | 2.0   | 4)             | 4)               | 1.5          | 60.0  | GTM-4860-020  |
| 48.0  | 74.0  | 2.0   | 61.0           | 4.0              | 1.5          | 74.0  | GTM-4874-020  |
| 52.0  | 78.0  | 2.0   | 65.0           | 4.0              | 1.5          | 78.0  | GTM-5278-020  |
| 52.5  | 69.0  | 2.0   | 4)             | 4)               | 1.5          | 69.0  | GTM-52569-020 |
| 62.0  | 78.0  | 2.0   | 4)             | 4)               | 1.5          | 78.0  | GTM-6278-020  |
| 62.0  | 90.0  | 1.0   | 4)             | 4)               | 0.7          | 90.0  | GTM-6290-010  |
| 62.0  | 90.0  | 2.0   | 76.0           | 4.0              | 1.5          | 90.0  | GTM-6290-020  |
| 68.0  | 81.0  | 2.0   | 4)             | 4)               | 1.5          | 81.0  | GTM-6881-020  |
| 78.0  | 114.0 | 1.5   | 4)             | 4)               | 1.0          | 114.0 | GTM-78114-015 |
| 80.5  | 114.0 | 1.5   | 4)             | 4)               | 1.0          | 114.0 | GTM-80114-015 |

4) Design without fixing bore



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