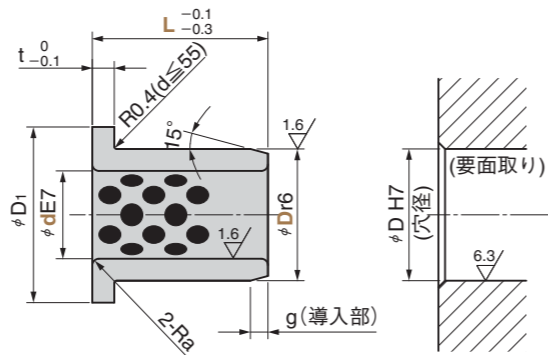
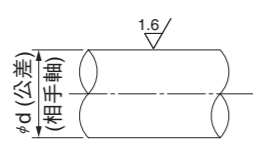


オイルレスブッシュ 銅合金・フランジタイプ

SO#50SP2

RoHS

SOBF



●スライド方向



●相手軸公差

- d8: 一般用 (高負荷)
- e7: 一般用 (軽負荷)
- f7: 高精度用

●その他の使用条件・特性

- ・大気中、淡水中 (条件付) にて使用できます。
- ・高荷重、低速運転で性能を発揮します。

⚠ 使用温度は+150℃以下です。+150℃を超える場合は潤滑剤の埋設仕様が異なります。営業までご相談ください。

材質 母材 銅合金 (SP2)
固体潤滑剤 (GR-1)

■使用範囲

| 潤滑剤の種類 | 給油条件 | 環境条件 | 許容最高面圧 P N/mm ² | 許容最高速度 V m/min | 許容最高 PV 値 N/mm ² ・m/min | 使用温度範囲 ℃ |
|--------|----------|------|-------------------------------|-------------------|---------------------------------------|-------------|
| GR-1 | 無給油 | 大気中 | 100 | 15 | 150 | -50 ~ +300 |
| | 定期給油 (脂) | | | 30 | 200 | -50 ~ +150 |

■物性

| 比重 g/cm ³ | 硬さ HB | 伸び % | 引張強さ N/mm ² | 線膨張係数 × 10 ⁻⁵ /℃ |
|-------------------------|----------|---------|---------------------------|--------------------------------|
| 7.9 | 210 以上 | 12 以上 | 755 以上 | 1.9 |

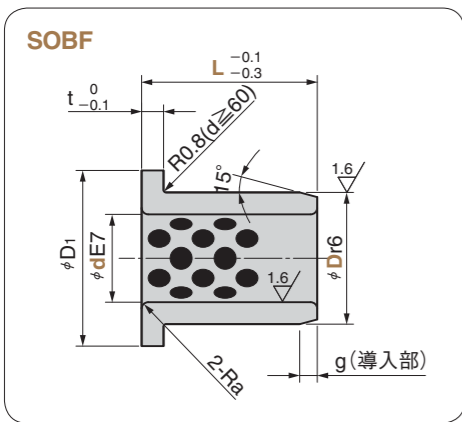
Order **Catalog No.** **d** - **D** - **L**
SOBF 18 - 24 - 30

| d | E7 | D | r6 | D1 | t | Ra | g | 圧入後 d 公差 | Catalog No. | d | D | L |
|----|------------------|----|------------------|----|---|-----|---|----------|-------------|----|----|----|
| 8 | | 12 | | 20 | | 0.5 | 1 | +0.025 | SOBF | 8 | 12 | 10 |
| | | | | | | | | +0.009 | | | | 15 |
| 10 | +0.040 +0.025 | 14 | +0.034 +0.023 | 22 | 2 | | | +0.022 | | 10 | 14 | 10 |
| | | | | | | | | +0.006 | | | | 15 |
| | | | | | | | | | | | | 17 |
| | | | | | | | | | | | | 20 |
| 12 | | 18 | | 25 | | | | +0.035 | SOBF | 12 | 18 | 20 |
| | | | | | | | | +0.016 | | | | 25 |
| | | | | | | | | | | | | 30 |
| 13 | | 19 | | 26 | | 1 | 2 | +0.031 | | 13 | 19 | 15 |
| | | | | | | | | +0.012 | | | | 20 |
| 14 | +0.050 +0.032 | 20 | | 27 | 3 | | | | | 14 | 20 | 15 |
| | | | | | | | | | | | | 20 |
| | | | | | | | | | | | | 25 |
| 15 | | 21 | +0.041 +0.028 | 28 | | | | +0.028 | | 15 | 21 | 15 |
| | | | | | | | | +0.009 | | | | 20 |
| | | | | | | | | | | | | 25 |
| 16 | | 22 | | 29 | | | | | | 16 | 22 | 15 |
| | | | | | | | | | | | | 18 |
| | | | | | | | | | | | | 20 |

| d | E7 | D | r6 | D1 | t | Ra | g | 圧入後 d 公差 | Catalog No. | d | D | L |
|----|------------------|----|------------------|----|---|----|---|----------|-------------|----|----|----|
| 16 | +0.050 +0.032 | 22 | | 29 | 3 | 1 | | +0.028 | SOBF | 16 | 22 | 23 |
| | | | | | | | | +0.009 | | | | 25 |
| | | | | | | | | | | | | 30 |
| | | | | | | | | | | | | 35 |
| 18 | | 24 | +0.041 +0.028 | 32 | | | | | | 18 | 24 | 20 |
| | | | | | | | | | | | | 30 |
| | | | | | | | | | | | | 15 |
| 20 | | 30 | | 40 | 2 | | | +0.042 | | 20 | 30 | 25 |
| | | | | | | | | +0.020 | | | | 30 |
| | | | | | | | | | | | | 35 |
| | | | | | | | | | | | | 40 |
| | | | | | | | | | | | | 15 |
| 25 | +0.061 +0.040 | 35 | | 45 | | 1 | | | | 25 | 35 | 20 |
| | | | | | | | | | | | | 25 |
| | | | | | | | | | | | | 30 |
| | | | | | | | | | | | | 35 |
| | | | | | | | | | | | | 40 |
| | | | | | | | | | | | | 50 |
| 30 | | 40 | | 50 | 2 | 2 | | +0.034 | | 30 | 40 | 20 |
| | | | | | | | | +0.012 | | | | 25 |
| | | | | | | | | | | | | 20 |
| | | | | | | | | | | | | 25 |
| | | | | | | | | | | | | 30 |
| 35 | | 45 | +0.050 +0.034 | 60 | 5 | 2 | | +0.048 | SOBF | 35 | 45 | 30 |
| | | | | | | | | +0.022 | | | | 35 |
| | | | | | | | | | | | | 40 |
| | | | | | | | | | | | | 50 |
| 40 | +0.075 +0.050 | 50 | | 65 | | | | +0.045 | | 40 | 50 | 30 |
| | | | | | | | | +0.019 | | | | 35 |
| | | | | | | | | | | | | 40 |
| | | | | | | | | | | | | 50 |
| | | | | | | | | | | | | 30 |
| 45 | | 55 | | 70 | | 2 | | | | 45 | 55 | 35 |
| | | | | | | | | | | | | 40 |
| | | | | | | | | | | | | 50 |
| 50 | | 60 | +0.060 +0.041 | 75 | | | | +0.038 | | 50 | 60 | 30 |
| | | | | | | | | +0.012 | | | | 30 |
| | | | | | | | | | | | | 35 |
| | | | | | | | | | | | | 40 |
| 55 | +0.090 +0.060 | 65 | | 80 | | 3 | 3 | +0.053 | | 55 | 65 | 40 |
| | | | | | | | | +0.022 | | | | 50 |
| | | | | | | | | | | | | 60 |

オイルレスブッシュ 銅合金・フランジタイプ SO#50SP2

RoHS



Order **Catalog No.** **SOBF** **d** - **D** - **L**
 90 - 110 - 60

| d | E7 | D | r6 | D ₁ | t | Ra | g | 圧入後 d 公差 | Catalog No. | d | D | L |
|-----|------------------|-----|------------------|----------------|-----|----|---|------------------|-------------|-----|-----|----|
| 60 | | 75 | +0.062 +0.043 | 90 | | | | +0.052 +0.021 | SOBF | 60 | 75 | 40 |
| | | | | | 7.5 | | | | | 80 | | |
| 70 | +0.090 +0.060 | 85 | | 105 | | | | | | 70 | 85 | 50 |
| | | | | | | | | | | 80 | | |
| 80 | | 100 | +0.073 +0.051 | 120 | | 3 | 3 | +0.045 +0.014 | | 80 | 100 | 80 |
| | | | | | | | | | | 100 | | |
| 90 | | 110 | | 130 | 10 | | | +0.059 +0.023 | | 90 | 110 | 60 |
| | | | | | | | | | | 80 | | |
| 100 | +0.107 +0.072 | 120 | +0.076 +0.054 | 150 | | | | | | 100 | 120 | 80 |
| | | | | | | | | | | 100 | | |
| 120 | | 140 | +0.088 +0.063 | 170 | | | | +0.051 +0.015 | | 120 | 140 | 80 |
| | | | | | | | | | | 100 | | |

■ 使用範囲 (SOBFU)

| 潤滑剤の種類 | 給油条件 | 環境条件 | 許容最高面圧 P N/mm ² | 許容最高速度 V m/min | 許容最高 PV 値 N/mm ² · m/min | 使用温度範囲 °C |
|--------|----------|------|-------------------------------|-------------------|--|--------------|
| GR-1 | 無給油 | 大気中 | 100 | 15 | 150 | -50 ~ +300 |
| | 定期給油 (脂) | | | 30 | 200 | -50 ~ +150 |

■ 物性 (SOBFU)

| 比重 g/cm ³ | 硬さ HB | 伸び % | 引張強さ N/mm ² | 線膨張係数 × 10 ⁻⁵ /°C |
|-------------------------|----------|---------|---------------------------|---------------------------------|
| 7.9 | 210 以上 | 12 以上 | 755 以上 | 1.9 |

オイルレスブッシュ 銅合金・フランジ薄肉タイプ SO#50SP2

RoHS

SOBFU

● スライド方向

● 相手軸公差
 d8: 一般用 (高負荷)
 e7: 一般用 (軽負荷)
 f7: 高精度用

● その他の使用条件・特性
 ・大気中、淡水中 (条件付) にて使用できます。
 ・高荷重、低速運転で性能を發揮します。

⚠ 使用温度は +150°C 以下です。

材質 母材 銅合金 (SP2)
 固体潤滑剤 (GR-1)

| d | E7 | D | r6 | D ₁ | T | T ₁ | 圧入後 d 公差 | Catalog No. | d | D | L |
|----|------------------|----|------------------|----------------|-----|----------------|------------------|-------------|----|----|----|
| 5 | | 7 | | 11 | | | | SOBFU | 5 | 7 | 10 |
| | | | | | | | +0.017 +0.005 | | 12 | | |
| 6 | +0.032 +0.020 | 8 | | 12 | | | | | 6 | 8 | 12 |
| | | | +0.028 +0.019 | | | | | | 15 | | |
| 8 | | 10 | | 14 | 1 | 2 | +0.023 +0.008 | | 8 | 10 | 12 |
| | | | | | | | | | 15 | | |
| 10 | +0.040 +0.025 | 12 | | 16 | | | +0.020 +0.004 | | 10 | 12 | 12 |
| | | | | | | | | | 15 | | |
| 12 | | 15 | | 21 | | | | | 12 | 15 | 15 |
| | | | +0.034 +0.023 | | | | | | 20 | | |
| 13 | | 16 | | 22 | 1.5 | | +0.030 +0.011 | | 13 | 16 | 15 |
| | | | | | | | | | 20 | | |
| 15 | +0.050 +0.032 | 18 | | 24 | | 3 | | 15 | 18 | 15 | |
| | | | | | | | | 12 | | | |
| 16 | | 20 | | 26 | | | +0.025 +0.006 | 16 | 20 | 20 | |
| | | | | | | | | 15 | | | |
| 20 | | 24 | +0.041 +0.028 | 32 | 2 | | | 20 | 24 | 25 | |
| | | | | | | | +0.036 +0.014 | 30 | | | |
| 25 | +0.061 +0.040 | 29 | | 37 | | 4 | | 25 | 29 | 40 | |
| | | | | | | | | 30 | | | |
| 30 | | 34 | +0.050 +0.034 | 42 | | | +0.031 +0.009 | 30 | 34 | 40 | |
| | | | | | | | | 50 | | | |

Order **Catalog No.** **SOBFU** **d** - **D** - **L**
 20 - 24 - 30

⚠ 特注品につきましては製作限界があります。営業窓口までご相談下さい。

金属系摺動部材