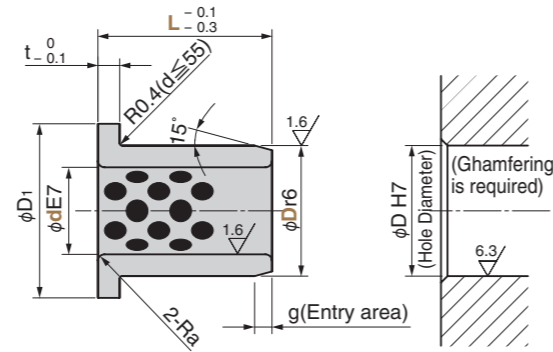
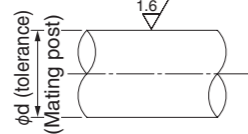


Oilless Bush

Copper Alloy
Flange Type
SO#50SP2



SOBF



● Sliding Direction ● Mating post tolerance



d8 : General use (high load)
e7 : General use (light load)
f7 : High precision

● Other operating conditions and characteristics

Can be used in the atmosphere and fresh water (on condition).
Good performance in operation under high load and at low speed.

⚠ When the product is used at high temperature (150°C or more), the embedding specification of solid lubricant is different. Please contact us for details.

Material Base Copper alloy (SO-2)
Solid lubricant (GR-1)

Operation Range

Lubricant Type	Lubricating Condition	Environment Condition	Max. Allowable Load P N/mm ²	Max. Allowable Sliding Speed V m/min	Max. Allowable PV value N/mm ² · m/min	Operation Range Temperature °C
GR-1	No lubrication	Atmosphere	100	15	150	-50 ~ +300
	Regular lubrication (Grease)			30	200	-50 ~ +150

Physical Properties

Specific Gravity	Hardness HB	Elongation %	Tensile Strength N/mm ²	Linear Expansion Coefficient ×10 ⁻⁵ /°C
7.9	210 or more	12 or more	755 or more	1.9

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

※ Values shown in the "Tolerance d after press-fit" column are provided for reference.

d E7	D r6	D ₁	t	Ra	g	Tolerance d after press-fit	Catalog No.	d	D	L
8	12	20		0.5	1	+0.025 +0.009		8	12	10 12 15
			2							10 12 15
10	14	22				+0.022 +0.006		10	14	15 17 20
						+0.034 +0.023				10 12 15
12	18	25				+0.035 +0.016		12	18	15 20 25
							SOBF			10 12 15
13	19	26		1	2	+0.031 +0.012		13	19	15 20 25
			3							10 15 20
14	20	27				+0.028 +0.009		14	20	15 20 25
										10 12 15
15	21	28				+0.028 +0.009		15	21	15 20 25
										10 12 15

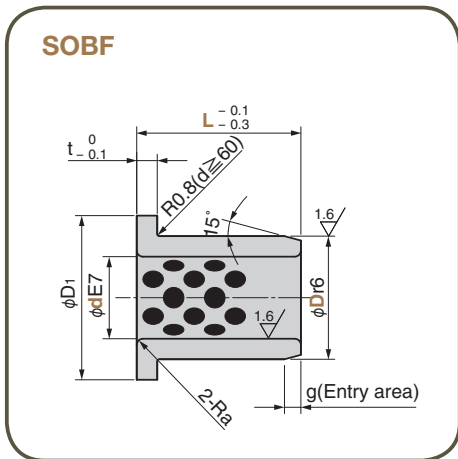
※ Values shown in the "Tolerance d after press-fit" column are provided for reference.

d E7	D r6	D ₁	t	Ra	g	Tolerance d after press-fit	Catalog No.	d	D	L
										12 15 18 20 23 25 30 35 40 15 20 25 30 35 40 15 20 25 30 35 40 15 20 25 30 35 40
16	22	29						16	22	20 25 30 35 40 15 20 25 30 35 40
			3	1		+0.028 +0.009				15 20 25 30 35 40 15 20 25 30 35 40
										15 20 25 30 35 40
18	24	32						18	24	20 25 30 35 40 15 20 25 30 35 40
										15 20 25 30 35 40 15 20 25 30 35 40
										15 20 25 30 35 40
20	30	40		2		+0.042 +0.020		20	30	20 25 30 35 40 15 20 25 30 35 40
										15 20 25 30 35 40 15 20 25 30 35 40
				1						15 20 25 30 35 40 15 20 25 30 35 40
25	35	45		2				25	35	20 25 30 35 40 15 20 25 30 35 40
										15 20 25 30 35 40 15 20 25 30 35 40
				1	2	+0.034 +0.012				15 20 25 30 35 40 15 20 25 30 35 40
30	40	50						30	40	20 25 30 35 40 15 20 25 30 35 40
										15 20 25 30 35 40 15 20 25 30 35 40
31.5	40	50				+0.050 +0.034		31.5	40	20 25 30 35 40 15 20 25 30 35 40
										15 20 25 30 35 40 15 20 25 30 35 40
										15 20 25 30 35 40 15 20 25 30 35 40
35	45	60				+0.048 +0.022		35	45	20 25 30 35 40 15 20 25 30 35 40
										15 20 25 30 35 40 15 20 25 30 35 40
				1						15 20 25 30 35 40 15 20 25 30 35 40
40	50	65				+0.045 +0.019		40	50	20 25 30 35 40 15 20 25 30 35 40
										15 20 25 30 35 40 15 20 25 30 35 40
										15 20 25 30 35 40 15 20 25 30 35 40
45	55	70			2			45	55	20 25 30 35 40 15 20 25 30 35 40
										15 20 25 30 35 40 15 20 25 30 35 40
										15 20 25 30 35 40 15 20 25 30 35 40
50	60	75				+0.038 +0.012		50	60	20 25 30 35 40 15 20 25 30 35 40
						+0.060 +0.041				15 20 25 30 35 40 15 20 25 30 35 40
55	65	80			2	+0.053 +0.022		55	65	20 25 30 35 40 15 20 25 30 35 40
					3					15 20 25 30 35 40 15 20 25 30 35 40
60	75	90	7.5	3	3	+0.052 +0.021		60	75	20 25 30 35 40 15 20 25 30 35 40
										15 20 25 30 35 40 15 20 25 30 35 40

Oilless Bush

Copper Alloy
Flange Type

SO#50SP2



Order

Catalog No.

SOBF

d —

90

D —

110

L

60

⚠ Products with a d value of 130, 140, 150 or 160 are available on a built-to-order basis.

※ Values shown in the "Tolerance d after press-fit" column are provided for reference.

d E7	D r6	D ₁	t	Ra	g	Tolerance d after press-fit	Catalog No.	d	D	L
65	80 +0.062 +0.043	95				+0.055 +0.025		65	80	60
70	85	105	7.5			+0.045 +0.014		70	85	50 80
75	+0.090 +0.060	90				+0.048 +0.018		75	90	60 60
80	100	120				+0.045 +0.014		80	100	80 100
90	110	130						90	110	60 80
100	+0.107 +0.072	120			3	+0.059 +0.023	SOBF	100	120	80 100
120	+0.088 +0.063	170	10			+0.051 +0.015		120	140	80 100
130	150	180				+0.074 +0.034		130	150	80 100
140	+0.090 +0.065	190				+0.075 +0.035		140	160	80 100
150	+0.125 +0.085	170				+0.073 +0.033		150	170	100 120
160	+0.093 +0.068	210				+0.074 +0.033		160	180	100 120