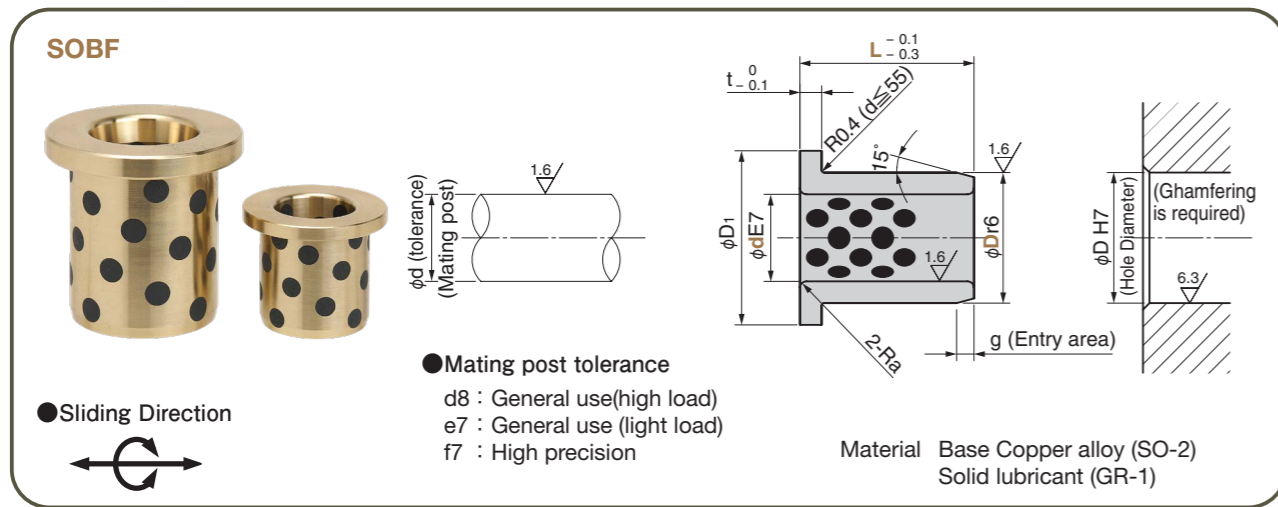


# Oilless Bush

Copper Alloy  
Flange Type  
SO#50SP2



## Operation Range

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

⚠ 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.

## Physical Properties

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

d E7	D r6	D <sub>1</sub>	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
										10 12 15
12	18	25				+0.035 +0.016		12	18	15 20 25 30
										10 12 15
13	19	26	1	2		+0.031 +0.012	SOBF	13	19	15 20 25 30
			3							15 20 25 30
14	20	27				+0.028 +0.009		14	20	15 20 25 30
										10 12 15
15	21	28				+0.028 +0.009		15	21	15 20 25 30

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

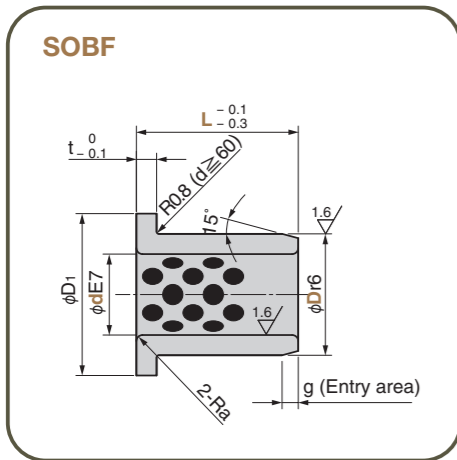
d E7	D r6	D <sub>1</sub>	t	Ra	g	Tolerance d after press-fit	Catalog No.	d	D	L
										12 15 18 20 23 25 30 35 40
16	22	29						16	22	15 20 25 30 35 40
			3	1		+0.028 +0.009				15 20 25 30 35 40
18	24	32				+0.041 +0.028		18	24	15 20 25 30 35 40
										15 20 25 30 35 40
20	30	40		2		+0.042 +0.020		20	30	15 20 25 30 35 40
				1						15 20 25 30 35 40
25	35	45		2				25	35	15 20 25 30 35 40 50
				1	2	+0.034 +0.012				20 25 30 35 40 50
30	40	50					SOBF	30	40	15 20 25 30 35 40 50
										20 25 30 35 40 50
31.5				2		+0.050 +0.034		31.5	40	20 25 30 35 40 50
			5							20 25 30 35 40 50
35	45	60				+0.048 +0.022		35	45	20 25 30 35 40 50
				1						20 25 30 35 40 50
40	50	65				+0.045 +0.019		40	50	20 25 30 35 40 50
				2						20 25 30 35 40 50
45	55	70						45	55	20 25 30 35 40 50
										20 25 30 35 40 50
50	60	75				+0.060 +0.041		50	60	20 25 30 35 40 50
				3	3					20 25 30 35 40 50
55	65	80		2	3	+0.053 +0.022		55	65	20 25 30 35 40 50
				2	3					20 25 30 35 40 50
60	75	90	7.5	3	3	+0.052 +0.021		60	75	20 25 30 35 40 50 80

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

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

# Oilless Bush

Copper Alloy  
Flange Type  
SO#50SP2



d E7	D r6	D <sub>1</sub>	t	Ra	g	Tolerance d after press-fit	Catalog No.	d	D	L
65	80	95				+0.055 +0.025		65	80	60
70	85	105	7.5			+0.045 +0.014		70	85	50
75	90	110				+0.048 +0.018		75	90	60
80	100	120				+0.045 +0.014		80	100	80
90	110	130				+0.059 +0.023		90	110	60
100	120	150		3	3	+0.051 +0.015	SOBF	100	120	80
120	140	170	10			+0.074 +0.034		120	140	100
130	150	180				+0.074 +0.034		130	150	80
140	160	190				+0.075 +0.035		140	160	100
150	170	200				+0.073 +0.033		150	170	100
160	180	210				+0.074 +0.033		160	180	120

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



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.

● 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.