

Oil Free Bushing Housing Units - Pilot Flanged - Standard - Built-In Copper Alloy Bushings, Single / Double

■ Features: Suitable for vertical use. Reduces the time of manufacturing and assembling the housing.
Oil Free Bushings do not project from bushing mounting position. Saves space on the opposite side.

■ Standard Type

Housing Type	Type			Seal	Housing		Bushing	Operating Temperature (°C)
	Round Flange	Square Flange	Compact Flange		M Material	S Surface Treatment	M Material	
Single	MFIMS	MFIKS	MFINS	No Seal	EN 1.0038 Equiv.	Electroless Nickel Plating	High Tensile Brass Alloy	-40~150
	MFIMS-S	MFIKS-S	MFINS-S	With Non-Contact Seals				
Double	MFIMW	MFIKW	MFINW	No Seal				
	MFIMW-S	MFIKW-S	MFINW-S	With Non-Contact Seals				
Long	MFIML	MFIKL	-	No Seal				
	MFIML-S	MFIKL-S	-	With Non-Contact Seals				



• Pilot Single

• Pilot Double

• Pilot Long

Retaining Ring

Oil Free Copper Alloy Bushing

Main Body

Oil Free Copper Alloy Bushing (2 pieces)

Oil Free Copper Alloy Bushing (2 pieces)

Arrow View A

Arrow View A

Arrow View A

H

D

d1

d2

Da±0.1

T

S

L

L

L

6.3/(1.6)

6.3/(1.6)

0.5



Round Flange

Round Flange: Circular flange with diameter D , 4-Mounting Hole, and P.C.D.

Square Flange

Square Flange: Square flange with side length W , 4-Mounting Hole, and P.C.D.

Compact Flange

Compact Flange: Compact flange with 2-Mounting Hole (d=6-13) and 4-Mounting Hole (d=16-30). Dimensions include $D+6$, d , and F .

⚡ Perpendicularity of flange bottom plane to surface D is 0.02 or less.

⚡ Recommend Mating Shaft f8 or g6



* With Non-Contact Seals
Teflon seal of 0.3mm thick is attached on the inner side of each retaining ring

Part Number				D		Da	L			S	ℓ	H	T	d ₁	d ₂	t	P.C.D.	W	F	A		
Type				d	Tolerance	Tolerance	Single	Double	Long													
• Single (No Seal) (With Non-Contact Seals)	Round	Square	Compact	6	+0.022 0	12	0	11.8	22	37	52	15	5	28				20	22	-	20	
	Flange	Flange	Flange	10	+0.028 0	15	-0.018	14.8	27	47	67	20		32				24	25	-	24	
	MFIMS	MFIS	MFINS	12	+0.034 0	21	0	20.8	32	57	82		25	40				29	30	-	29	
				12	+0.034 0	21	-0.021	20.8				25	6	42	6	4.5	7.5	4.1	32	32	-	32
	MFIMS-S	MFIS-S	MFINS-S	16		28		27.8	37	67	97	30		48					38	37	22	31
				20		32		21.8	42	77	112	35		54					43	42	24	36
• Double (No Seal) (With Non-Contact Seals)				25	+0.041 0	40	0	39.6	58	108	158	50	8	62					51	50	32	40
				25		40	-0.025	39.6	58	108	158	50			8	5.5	9	5.1	51	50	32	40
				30		45		44.6	68	128	188	60	10	74					60	58	35	49
				35		52		51.6	68	128	-	60	10	82					67	64	-	-
• Long (No Seal) (With Non-Contact Seals)				40	+0.050 0	60	0	59.6	80	150	-	70	13	96					78	75	-	-
				40		60	-0.030	59.6	80	150	-	70	13	96					78	75	-	-
				50		80		79.6	90	170	-	80	13	116	13	9	14	8.1	98	92	-	-

For Features of Non-Contact Seal Type, refer to **P393**. Flanged Height-Adjusting Spacers are selectable from **330**.

■ Dust Seals Sliding Resistance Test

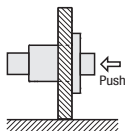
- | d | Sliding Resistance (N) | SAKAGAMI SEISAKUSHO LTD. Dust Seal |
|----|------------------------|------------------------------------|
| 16 | 6 | SER16 |
| 20 | 7 | SER20 |
| 25 | 8 | SER25 |
| 30 | 12 | SER30 |
- ② Values are for reference only.

■ Test Conditions

1. Tester: Push-Pull Gauge
2. Bushing: Copper Alloy Type
3. Shaft: MISUMI f8 shaft

■ Testing Method

Measured the load when the shaft started to move.
* Velocity 1mm/s approx.



■ **With Dust Seals Price List**

d	(With Dust Seals) Unit Price			
	Single		Double	
	MFMS-DS	MFNS-DS	MFMW-DS	MFNW-DS
16				
20				
25				
30				

d	(No Seal) Unit Price								(With Non-Contact Seals) Unit Price							
	Single			Double			Long		Single			Double			Long	
	MFIMS	MFIS	MFINS	MFIMW	MFISW	FINW	MFIML	MFISL	MFIMS-S	MFIS-S	MFINS-S	MFIMW-S	MFISW-S	FINW-S	MFIML-S	MFISL-S
6																
8																
10																
12																
13																
16																
20																
25																
30																
35			-			-	-	-			-			-	-	-
40			-			-	-	-			-			-	-	-
50			-			-	-	-			-			-	-	-

