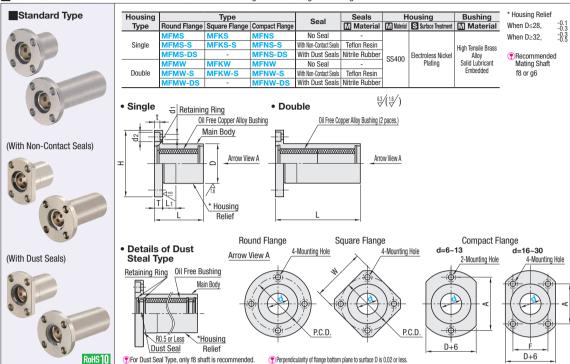
# Oil Free Bushing Housing Units - Standard Flanged - Standard -

**Built-In Copper Alloy Bushings, Single / Double** 

#### Features: Suitable for vertical use. Reduces the time of manufacturing and assembling the housing



	Part Number							ı												
		Time			D		No Seal, With Non-Contact Seals		With Dust Seals		L <sub>1</sub>	Н	Т	d1	d <sub>2</sub>	t	P.C.D.	W	F	Α
Туре						Tolerance	Single	Double	Single	Double										
					12	_	22	37	-	-		28					20	22		20
				e Compact Flange	12	0 -0.018	22	31	-	-	5	40	5	3.5	6	3.1	20	22	-	20
	(No Seal)	Round Flange MFMS	Square Flange		15	-0.010	27	47	-	-	٦	32					24	25	-	24
<ul> <li>Single</li> </ul>			MFKS	MFNS	19				-	-	40	40					29	30	-	29
	(With Non-Contact Seals)	MFMS-S	MFKS-S	MFNS-S	MFNS-S 21 MFNS-DS 23	0	32	57	-	-		42	6	4.5	7.5	4.1	32	32	-	32
	(With Dust Seals)	MFMS-DS				-0.021			-	-		43	0	4.5	7.5	4.1	33	34	-	33
					28	1	37	67	45	75	10	48					38	37	22	31
<ul> <li>Double</li> </ul>	(No Seal)	MFMW	MFKW	MFNW	32	0	42	77	51	86	10	54	8	5.5	9	5.1	43	42	24	36
	(With Non-Contact Seals)	MFMW-S	MFKW-S	MFNW-S	40	-0.025	58	108	70	120		62	0	5.5	9	5.1	51	50	32	40
	(With Dust Seals)	MFMW-DS		MFNW-DS	45	15 -0.025 68		128	81	141		74	10	6.6	11	6.1	60	58	35	49
					52	0	68	128	-	-		82	10	0.0	11	0.1	67	64	-	-
					60	60 -0.030	80	150	-	-		96	13	9	14	8.1	78	75	-	-
					80	0.000	90	170	-	-		116	13	3	14	0.1	98	92		-

●Flanged Height-Adjusting Spacers are selectable from p.330.
●With Dust Seals are only available in \* marked sizes.

#### Features of Dust Seal Type and Non-Contact Seal Type

- · Contact Seals built into Dust Seal Type prevent small dust from sliding contact surface. • For sliding resistance of Dust Seal Type, refer to Sliding Resistance Test Data.
- Employed Dust Seals are SER series of SAKAGAMI SEISAKUSHO LTD.
- With Non-Contact Seals are provided to prevent larger size dust entry. Clearance between shafts and bushings (approx. 0.1mm) lowers the sliding resistance than Dust Seal Type.

Dus	t Seals Sliding I	Resistance Test
d	Sliding Resistance (N)	SAKAGAMI SEISAKUSHO LTD. Dust Seal
16	6	SER16
20	7	SER20
25	8	SER25
30	12	SER30

Dus	it seals sliding i	nesistance lest
d	Sliding Resistance (N)	SAKAGAMI SEISAKUSHO LTD. Dust Seal
16	6	SER16
20	7	SER20
25	8	SER25
30	12	SER30
Valu	ies are for referei	nce only.



Test Conditions	
Tester: Push-Pull Gauge	⊗h
2. Bushing: Copper Alloy Type	
3. Shaft: MISUMI f8 shaft	
Testing Method	Push
Measured the load when the shaft	
started to move.	
* Velocity 1mm/s approx.	

### No Seal, With Non-Contact Seals Price List

		(1	No Seal)	Unit Pric	e	(With Non-Contact Seals) Unit Price									
d		Single			Double			Single		Double					
	MFMS	MFKS	MFNS	MFMW	MFKW	MFNW	MFMS-S	MFKS-S	MFNS-S	MFMW-S	MFKW-S	MFNW-S			
6															
8															
10															
12															
16															
20															
25															
30															
35			-			-			-			-			
40			-			-			-			-			
50			-			-			-			-			

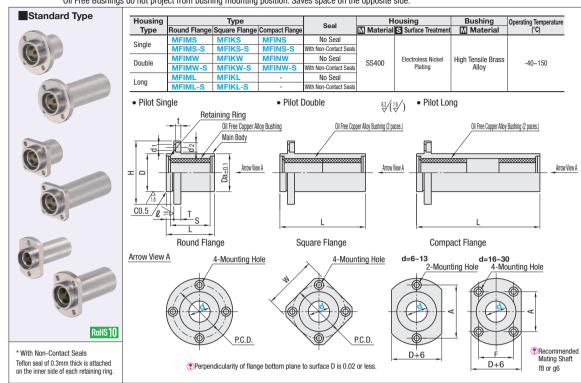
### With Dust Seals Price List

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

# 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.



		Part	Number				D		Da		L		s	0	н	_	d <sub>1</sub>	d2	t	P.C.D.	w	F	Α
		Туре			d	Tolerance	U	Tolerance	Da	Single	Double	Long	3	l		٠	uı	u2	٠	P.G.D.	W	-	A
					6	+0.022	12	0	11.8	22	37	52	15	5	28	5	3.5	6	3.1	20	22	-	20
		Round	Square	Compact	8	+0.028	15	-0.018	14.8	27	47	67	20	Э	32	Э	3.5	О	3.1	24	25	-	24
		Flange	Flange	Flange	10	0	19	_	18.8	32	57	82	25		40					29	30	-	29
<ul> <li>Single</li> </ul>	(No Seal)	MFIMS	MFIKS	MFINS	12	+0.034	21	0 -0.021	20.8	32	3/	82	25	6	42	6	4.5	7.5	4.1	32	32	-	32
	(With Non-Contact Sea	als) MFIMS-S	MFIKS-S	MFINS-S	16	0	28	0.021	27.8	37	67	97	30		48					38	37	22	31
					20		32		31.6	42	77	112	35	8	54	8	5.5	9	5.1	43	42	24	36
<ul> <li>Double</li> </ul>	(No Seal)	MFIMW	MFIKW	MFINW	25	+0.041	40	0 -0.025	39.6	58	108	158	50	0	62	0	5.5	9	5.1	51	50	32	40
	(With Non-Contact Sea	als) MFIMW-S	MFIKW-S	MFINW-S	30		45	0.020	44.6	68	128	188	60	10	74	10	6.6	11	6.1	60	58	35	49
					35		52		51.6	68	128	-	60	10	82	10	0.0	- 11	0.1	67	64	-	-
<ul><li>Long</li></ul>	(No Seal)	MFIML	MFIKL		40	+0.050	60	0 - 0.030	59.6	80	150	-	70	13	96	13	9	14	8.1	78	75	-	-
	(With Non-Contact Sea	als) MFIML-S	MFIKL-S		50		80	1.500	79.6	90	170	-	80	13	116	13	9	14	0.1	98	92	-	-

● For Features of Non-Contact Seal Type, refer to P.393.
● Flanged Height-Adjusting Spacers are selectable from 330

				(No Seal)	Unit Price	•		(With Non-Contact Seals) Unit Price									
d		Single		Double			Lo	ng	Single				Double	Long			
	MFIMS	MFIKS	MFINS	MFIMW	MFIKW	MFINW	MFIML	MFIKL	MFIMS-S	MFIKS-S	MFINS-S	MFIMW-S	MFIKW-S	MFINW-S	MFIML-S	MFIKL-S	
6																	
8																	
10																	
12																	
13																	
16																	
20																	
25																	
30																	
35			-			-	-	-			-			-	-	-	
40			-			-	-	-			-			-	-	-	
50			-			-	-	-			-			-	-	-	

