Flanged Oil Free Bushings / Small Flanged Oil Free Bushings

-Built-in Copper Alloy Bushings Center Flanged Type- -Built-in Copper Alloy Bushings Female Thread Hole Type-

CAD Data

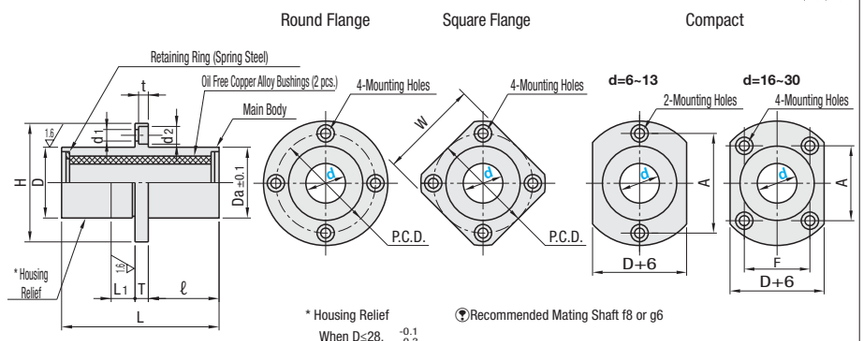
For Features of With Non-Contact Seals, refer to **P.340** Flanged Height-Adjusting Spacers are selectable. **P.288**

■Center Flanged Type

RoHS10

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

Type			Seal	Housing		Bushings
Round Flange	Square Flange	Compact		M Material	S Surface Treatment	M Material
MFCMW	MFCKW	MFCNW	No Seal	1.0038/S235JR	Electroless Nickel Plating	High Tensile Brass Alloy Solid Lubricant Embedded
MFCMW-S	MFCKW-S	MFCNW-S	- With Non-Contact Seals			



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

* Housing Relief When D≤28, -0.1 -0.3 When D≥32, -0.3 -0.5

Recommended Mating Shaft f8 or g6

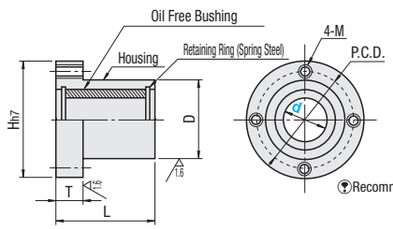
Part Number			D		Da	L	L1	ℓ	H	T	d1	d2	t	P.C.D.	W	F	A	(No Seal) € Unit Price			(With Non-Contact Seals) € Unit Price		
Type	d	Tolerance		Tolerance														Round Flange	Square Flange	Compact	Round Flange	Square Flange	Compact
																		MFCMW	MFCKW	MFCNW	MFCMW-S	MFCKW-S	MFCNW-S
Round Flange	6	+0.022 0	12	0 -0.018	11.8	37	5	16	28	5	3.5	6	3.1	20	22	-	20						
(No Seal) MFCMW	8	+0.028 0	15		14.8	47		21	32					24	25	-	24						
(With Non-Contact Seals) MFCMW-S	10		19		18.8				40					29	30	-	29						
Square Flange	12	+0.034 0	21	0 -0.021	20.8	57		25.5	42	6	4.5	7.5	4.1	32	32	-	32						
(No Seal) MFCKW	13		23		22.8		10		43					33	34	-	33						
(With Non-Contact Seals) MFCKW-S	16		28		27.8	67		30.5	48					38	37	22	31						
Compact	20	+0.041 0	32	0 -0.025	31.6	77		34.5	54	8	5.5	9	5.1	43	42	24	36						
(No Seal) MFCNW	25		40		39.6	108		50	62					51	50	32	40						
(With Non-Contact Seals) MFCNW-S	30		45		44.6	128		59	74	10	6.6	11	6.1	60	58	35	49						

[Features]
- 5 to 8 mm smaller in flange diameter (H dimension) compared to conventional Flanged Oil Free Bushings. Suited for space-saving.
- Outer cylinder strength test has proven that these bushings are as capable of maintaining strength under moment load as conventional Flanged Oil Free Bushings, or better.

■Small Flanged Type

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

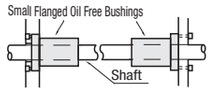
Type	Seal	Housing		Bushings
		M Material	S Surface Treatment	M Material
MFST	No Seal	1.0038/S235JR	Electroless Nickel Plating	High Tensile Brass Alloy Solid Lubricant Embedded
MFST-S	With Non-Contact Seals			



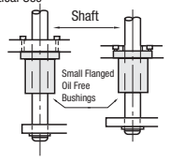
Recommended Mating Shaft f8 or g6

ex Example

(1) Horizontal Use



(2) Vertical Use



Part Number			D	L	Hh7	T	M	P.C.D.	€ Unit Price	
Type	d	Tolerance							MFST	MFST-S
MFST (No Seal) MFST-S (With Non-Contact Seals)	6	+0.022 0	12	22	23	6	M3	17		
	8	+0.028 0	15	27	27			21		
	10		19	32	34	8	M4	26		
	12	+0.034 0	21		37			29		
	13		23		38			30		
	16		28	37	43			35		
	20	+0.041 0	32	42	48	10	M5	39		
	25		40	58	56			47		
	30		45	68	66	12	M6	55		

Order Example Part Number MFCMW6 MFST10

Days to Ship 6 Days P.87

Price

■Volume Discount (Round down to one Cent.) P.87

Quantity	1~9	10~14	15~19	20~29
Discount Rate	€ Unit Price	5%	10%	18%
Days to Ship	Standard	To be quoted		

For orders larger than indicated amounts, please request a quotation.

Oil Free Bushing Housing Units

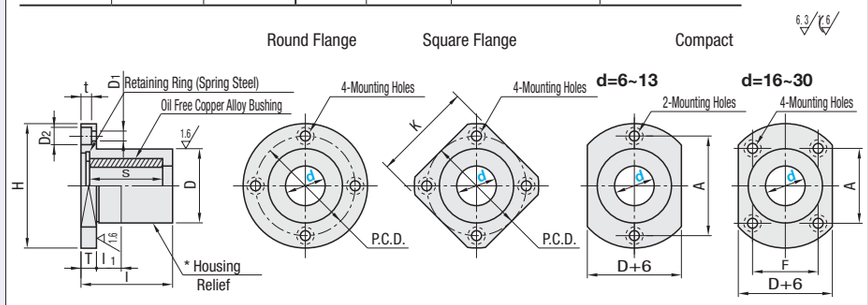
-Flanged Type · Tall Block Type-

CAD Data

■Flanged Type

<Reference: Cut-out Photo>

Type			Seal	Housing		Bushings
Round Flange	Square Flange	Compact		M Material	S Surface Treatment	M Material
MPRA	MPSA	MPCA	No Seal	1.0038/S235JR	Electroless Nickel Plating	High Tensile Brass Alloy Solid Lubricant Embedded



* Housing Relief When D≤26, -0.1 -0.3 When D≥30, -0.3 -0.5

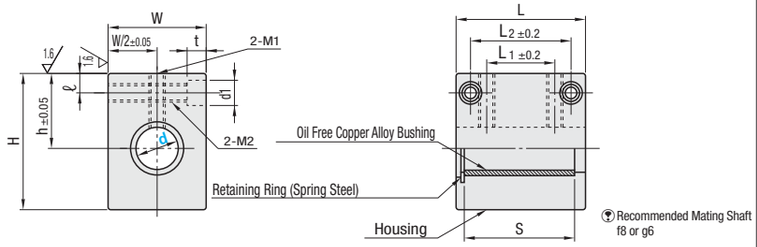
Recommended Mating Shaft f8 or g6

Effective length of D Tolerance below is L1. Perpendicularity of flange bottom plane to surface D is 0.02 or less.

Part Number			D		L	L1	S	H	T	d1	d2	t	P.C.D.	K	F	A	€ Unit Price		
Type	d	Tolerance		Tolerance													MPRA	MPSA	MPCA
MPRA Round Flange MPSA Square Flange MPCA Compact	6	+0.022 +0.010	15	0 -0.018	21	5	15	32	5	3.5	6	3.1	23	23	-	23			
	8	+0.028	17		26		20	34					25	25	-	25			
	10	+0.013	20		32		25	39					29	29	-	29			
	12	+0.034 +0.016	24	0 -0.021	32	10	25	44	6	4.5	7.5	4.1	34	34	-	34			
	13		26		32		25	46					36	36	-	36			
	16		30		37		30	50					40	40	26	30			
	20	+0.041 +0.020	36	0 -0.025	42		35	62	8	5.5	9	5.1	48	48	30	38			
	25		42		57		50	68					54	54	36	40			
	30		48		67		60	78	10	6.6	11	6.1	62	62	40	48			

■Tall Block Type

Type	Seal	Housing		Bushings
		M Material	S Surface Treatment	M Material
MPBA	No Seal	1.0038/S235JR	Electroless Nickel Plating	High Tensile Brass Alloy Solid Lubricant Embedded



Recommended Mating Shaft f8 or g6

Part Number			h	W	H	L	L1	L2	ℓ	S	M1	M2	d1xt	€ Unit Price
Type	d	Tolerance												
MPBA	6	+0.022 +0.010	14	16	22	22	6	14	5	15	M3	M4	6x5 (For M3 screws)	
	8	+0.028	16	20	26	27	11	19		20				
	10	+0.013	19	26	32	37	17	27	6	30	M5	M5	8x6 (For M4 screws)	
	12	+0.034 +0.016	20	28	34									
	13		25	30	43		14	26	7		M6	M6	9x7 (For M5 screws)	
	16		27	36	49	47	24	36		40				
	20	+0.041 +0.020	31	42	54	57	28	44	8	50	M8	M8	11x8 (For M6 screws)	
	25		37	52	65	67	30	50	9	60	M10	M10	14x10 (For M8 screws)	
	30		40	58	71									

Order Example Part Number MPRA10 MPBA16

Days to Ship 6 Days P.87

Price

■Volume Discount (Round down to one Cent.) P.87

Quantity	1~9	10~14	15~19	20~29
Discount Rate	€ Unit Price	5%	10%	18%
Days to Ship	Standard	To be quoted		

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