

Oil Free Bushings
Copper Alloy Straight, Standard

Points on Comparing Similar Products | If you use it for high-precision positioning, high load weight, and high frequency movement, consider from the existing product series.

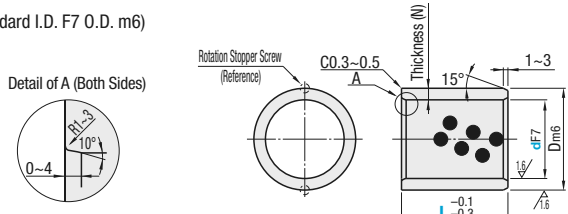
Features: Copper Alloy Bushings in general use.

Standard

MPBZ (Standard I.D. F7 O.D. m6)



RoHS



Recommended Mating Shaft for I.D. F7 Type d8: General Use (High-Load) e7: General Use (Light Load) f8: High Precision Use g6: High Precision Use (Intermittent Operation) Material: High Tensile Brass Alloy Solid Lubricant Embedded

Part Number		L										Dm6		Thickness (N)	Housing Dia. (Recommended Dimension)	Rotation Stopper Screw (Reference)*
Type	df7														Standard Dimension	Tolerance (H7)
MPBZ	5	+0.022	8	9	10	12	15					9	+0.015	2	9	+0.015
	6	+0.010	8	9	10	12	15	16	19	20		10	+0.006		10	0
	8	+0.028	8	9	10	12	15	16	19	20	25	12			12	
	10	+0.013	8	9	10	12	15	16	19	20	25	30	+0.018		14	+0.018
	12		8	9	10	12	15	16	19	20	25	30	+0.007	3	18	0
	13		8	9	10	12	15	16	19	20	25	30			19	
	15	+0.034	8	9	10	12	15	16	19	20	25	30			21	
	16	+0.016	8	9	10	12	15	16	19	20	25	30			22	
	18		8	9	10	12	15	16	19	20	25	30		4	24	
	20		8	9	10	12	15	16	19	20	25	30			28	
	20A		8	9	10	12	15	16	19	20	25	30			30	
	25	+0.041	8	9	10	12	15	16	19	20	25	30			33	
	25A	+0.020	8	9	10	12	15	16	19	20	25	30		5	35	
	30		8	9	10	12	15	16	19	20	25	30			38	
	35		8	9	10	12	15	16	19	20	25	30			44	
	40	+0.050	8	9	10	12	15	16	19	20	25	30			50	
	50	+0.025	8	9	10	12	15	16	19	20	25	30		6	62	
	60		8	9	10	12	15	16	19	20	25	30			75	
	80	+0.060	8	9	10	12	15	16	19	20	25	30			96	
	100	+0.030	8	9	10	12	15	16	19	20	25	30			120	

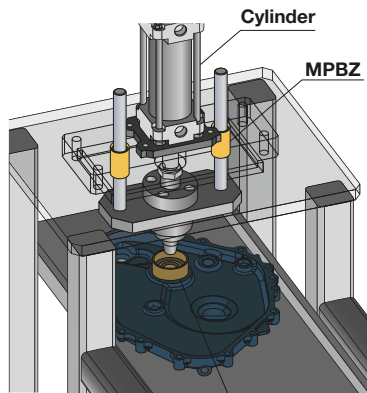
Part Number		Unit Price															
Type	d	L8	L9	L10	L12	L15	L16	L19	L20	L25	L30	L35	L40	L50	L60	L70	L80
MPBZ	5																
	6																
	8																
	10																
	12																
	13																
	15																
	16																
	18																
	20																
	20A																
	25																
	25A																
	30																
	35																
	40																
	50																
	60																
	80																
	100																

Ordering Example Part Number - L MPBZ10 - 15

	Existing Products Copper Alloy		C-VALUE Products Copper Alloy	
	Regular	Unlubricated	Regular	Unlubricated
Lubrication	Regular	Unlubricated	Regular	Unlubricated
Maximum Allowable Load	29.0 (98.0) N/mm ²	20.3 (68.6) N/mm ²	29.0 (98.0) N/mm ²	20.3 (68.6) N/mm ²
Maximum Allowable Velocity	1.00m/s	0.5m/s	1.00m/s	0.5m/s

Value in () is the allowable static surface pressure.

Example



Press Fit Work

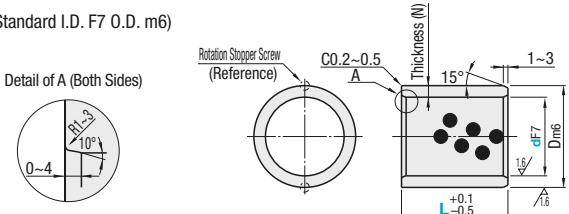
Oil Free Bushings
C-VALUE Products - Copper Alloy Straight, Standard

Points on Comparing Similar Products | If you use it for medium-precision positioning, mid-to-low load weight, and mid-to-low frequency movement, consider from the C-VALUE Product series.

Features: Copper Alloy Bushings in general use.

Standard

C-MPBZ (Standard I.D. F7 O.D. m6)



Recommended Mating Shaft for I.D. F7 Type d8: General Use (Medium Load) e7: General Use (Light Load) f8: Medium Precision Use g6: Medium Precision Use (Intermittent Operation) Material: High Tensile Brass Alloy Solid Lubricant Embedded

Part Number		L										Dm6		Thickness (N)	Housing Dia. (Recommended Dimension)	Rotation Stopper Screw (Reference)*
Type	df7														Standard Dimension	Tolerance (H7)
C-MPBZ	8	+0.033	8	10	12	15						12	+0.024	2	12	+0.018
	10	+0.008	8	10	12	15	16	20				14	+0.003		14	0
	12		8	10	12	15	16	20	25	30		18			18	
	13		8	10	12	15	16	20	25	30		19			19	
	15	+0.039	8	10	12	15	16	20	25	30	35	21	+0.027	3	21	+0.021
	16	+0.011	8	10	12	15	16	20	25	30	35	40	22		22	0
	18		8	10	12	15	16	20	25	30	35	40	24		24	
	20		8	10	12	15	16	20	25	30	35	40	50		28	
	25	+0.046	8	10	12	15	16	20	25	30	35	40	50	4	33	
	30	+0.015	8	10	12	15	16	20	25	30	35	40	50		38	
	35		8	10	12	15	16	20	25	30	35	40	50		44	
	40	+0.055	8	10	12	15	16	20	25	30	35	40	50		50	
	50	+0.020	8	10	12	15	16	20	25	30	35	40	50	5	62	
			8	10	12	15	16	20	25	30	35	40	50		75	
			8	10	12	15	16	20	25	30	35	40	50		96	
			8	10	12	15	16	20	25	30	35	40	50		120	

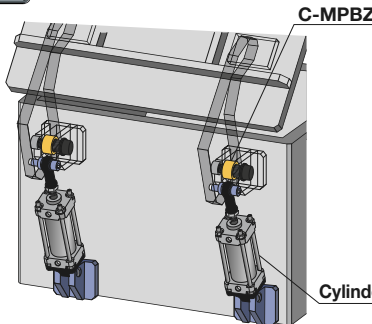
Part Number		Unit Price															
Type	d	L8	L10	L12	L15	L16	L19	L20	L25	L30	L35	L40	L50	L60	L70	L80	
C-MPBZ	8																
	10																
	12																
	13																
	15																
	16																
	18																
	20																
	25																
	30																
	35																
	40																
	50																

Ordering Example Part Number - L C-MPBZ10 - 15

	Existing Products Copper Alloy		C-VALUE Products Copper Alloy	
	Regular	Unlubricated	Regular	Unlubricated
Lubrication	Regular	Unlubricated	Regular	Unlubricated
Maximum Allowable Load	29.0 (98.0) N/mm ²	20.3 (68.6) N/mm ²	29.0 (98.0) N/mm ²	20.3 (68.6) N/mm ²
Maximum Allowable Velocity	1.00m/s	0.5m/s	1.00m/s	0.5m/s

Value in () is the allowable static surface pressure.

Example



Cylinder