

Oil-Free Bushings (Polyacetal Resin & PTFE Resin)

Straight / Shouldered (PTFE Resin)

Oil-Free Bushings – Straight / Shouldered (PTFE Resin)

RoHS10

TFZB Straight

Material: PTFE Resin
Lubricant and Special Filler Added
Allowable Temperature: -200~200°C

*L Dimension Tolerance: $8 \geq L \begin{matrix} 0 \\ -0.2 \end{matrix}$ $10 \leq L \begin{matrix} 0 \\ -0.25 \end{matrix}$

Ⓢ Press fitting is recommended to affix bushings.

TFZF Shoulder

Material: PTFE Resin
Lubricant and Special Filler Added
Allowable Temperature: -200~200°C

*L Dimension Tolerance: $8 \geq L \begin{matrix} 0 \\ -0.2 \end{matrix}$

Ⓢ Press fitting is recommended to affix bushings.

Part Number		L	D	*Housing Dia.		I.D. After Press-Fit		*Shaft Diameter		F	T	Chamfer a
Type	d (Tol. before Press-Fit)			Ref. Dim.	Tolerance (H7)	Tol. (Ref. Value)	Ref. Dim.	Tolerance (g6)				
Straight TFZB	3	3 5	6	6	+0.012 0	+0.120 +0.070	3	-0.002 -0.008	9	1.5	C0.3	
	4	3 5 8	7	7	+0.122 +0.072	4	-0.004 -0.012	11				
	5	5 8 10	8	8	+0.015 0	5	-0.004 -0.012	12				
	6	5 8 10	9	9	+0.125 +0.075	6	-0.005 -0.014	16				
	8	8 10 12 15	12	12	+0.131 +0.081	8	-0.005 -0.014	20				
Shoulder TFZF**	10	8 10 12 15	14	14	+0.018 0	+0.144 +0.094	10	-0.006 -0.017	18	2	C0.5	
	12	10 12 15 20	16	16	+0.146 +0.096	12	-0.006 -0.017	28				
	16	12 15 20 25	22	22	+0.175 +0.105	16	-0.007 -0.020	32				
	20	15 20 25 30	26	26	+0.229 +0.109	20	-0.007 -0.020	32				

Ⓢ Dimension tolerance is measured at +25°C. d tolerance is the value before press-fitted into housing.
* Housing diameters and shaft diameters listed here are recommended dimensions.
** Columns F and T apply to TFZF only.

Part Number	Available Types									
Type	d	L3	L5	L8	L10	L12	L15	L20	L25	L30
TFZB	3	•	•	—	—	—	—	—	—	—
TFZB	4	•	•	•	—	—	—	—	—	—
TFZB	5	—	•	•	•	—	—	—	—	—
TFZB	6	—	•	•	•	•	—	—	—	—
TFZB	8	—	—	•	•	•	•	—	—	—
TFZB	10	—	—	•	•	•	•	•	—	—
TFZB	12	—	—	—	•	•	•	•	•	—
TFZB	16	—	—	—	—	•	•	•	•	•
TFZB	20	—	—	—	—	—	•	•	•	•

Part Number	Available Types									
Type	d	L3	L5	L8	L10	L12	L15	L20	L25	L30
TFZF	3	•	•	—	—	—	—	—	—	—
TFZF	4	•	•	•	—	—	—	—	—	—
TFZF	5	—	•	•	•	—	—	—	—	—
TFZF	6	—	•	•	•	•	—	—	—	—
TFZF	8	—	—	•	•	•	•	—	—	—
TFZF	10	—	—	•	•	•	•	•	—	—
TFZF	12	—	—	—	•	•	•	•	•	—
TFZF	16	—	—	—	—	•	•	•	•	•
TFZF	20	—	—	—	—	—	•	•	•	•

Part Number Example Part Number - L
TFZF12 - 15

Oil-Free Resin Washers / Flanged Bushings / Pillow Blocks

Polyacetal Bushings Built-In

Oil-Free Resin Washers

RoHS10

JZW

Material: Polyacetal Resin
Lubricant and Special Filler Added
Allowable Temperature: -40~80°C

0.5 or less (Gate Cut)

Part Number		T	d	D
JZW	8	1.5	8.5	17
	10	2	10.5	24
	12		12.5	28
	17		17	30
	21		21	37
23	23		39	

Flanged Oil-Free Bushings

RoHS10

Type	Housing Material	Housing Surface Treatment	Bushings Material
JFMA	Aluminum Alloy	Clear Anodizing	Polyacetal Resin

Part Number		Dh7	L	L1	S	H	T	d1	d2	t	P.C.D.	F	A
JFMA JFRA	6	12	19	5	13	28	5	3.5	6	3.1	20	—	20
	8	15	24		18	32					24		
	10	19	29	21	40	29	32	38	22	31			
	12	21	30	21.6	42	32							
	16	28	37	26.6	48	38							

Ⓢ Flanged Height-Adjusting Spacers are selectable from P:384.

Oil-Free Bushing Pillow Blocks

RoHS10

Type	Housing Material	Housing Surface Treatment	Bushings Material
JFBA	Aluminum Alloy	Clear Anodizing	Polyacetal Resin

Part Number		h	W	H	L	L1	L2	S	ℓ	M1	M2	d1 x t
JFBA	6	14	16	22	27	18	9	21	5	M4	M4	6 x 5 (For M3 Screws)
	8	16	20	26	32	20	10	26		M5	M4	
	10	19	26	32	39	27	15	31.6	6	M6	M5	8 x 6 (For M4 Screws)
	12	20	28	34	40							9 x 7 (For M5 Screws)
	16	27	36	49	47							32

Part Number Example Part Number
JZW10
JFRA10
JFBA8