

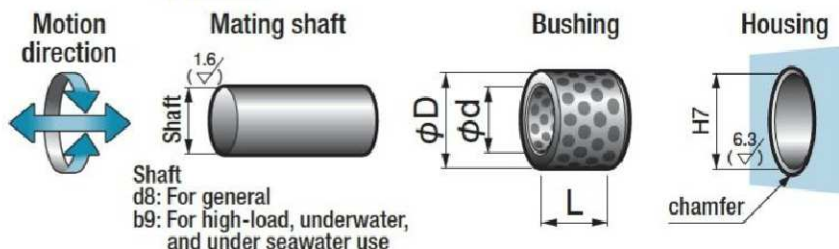
SPBL Oiles 500SP SL-4 Bushings



Specify Part No. by required I.D., O.D. and Length.
(e.g.) I.D. is 60mm, O.D. is 75mm, and length is 80mm.

SPBL - 607580

Parts No.



※Operating Temperature Range: $-40 \sim +80^{\circ}\text{C}$ ($-40 \sim +176^{\circ}\text{F}$)

Solid Lubricant : SL464 (refer to page 36)

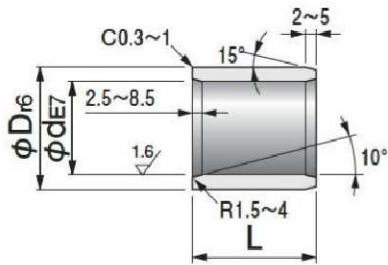
I.D.		O.D.		Length L								Tolerance	
φd	Tolerance	φD	Tolerance	20	25	30	35	40	50	60	70	80	
12	+0.050 +0.032	18	+0.034 +0.023	121820									
15	+0.050 +0.032	21	+0.041 +0.028	152120									
16	+0.050 +0.032	22	+0.041 +0.028	162220		162230							
18	+0.050 +0.032	24	+0.041 +0.028	182420									
20	+0.061 +0.040	30	+0.041 +0.028	203020		203030		203040					
25	+0.061 +0.040	35	+0.050 +0.034	253520	253525	253530		253540	253550				
30	+0.061 +0.040	40	+0.050 +0.034	304020	304025	304030		304040	304050				
35	+0.075 +0.050	45	+0.050 +0.034	354520		354530	354535	354540	354550	354560			
40	+0.075 +0.050	50	+0.050 +0.034			405030		405040	405050	405060			
40	+0.075 +0.050	55	+0.060 +0.041					405540	405550	405560			
45	+0.075 +0.050	60	+0.060 +0.041			456030			456050	456060			
50	+0.075 +0.050	60	+0.060 +0.041					506040	506050	506060			
50	+0.075 +0.050	65	+0.060 +0.041					506540	506550	506560	506570		
55	+0.090 +0.060	70	+0.062 +0.043					557040		557060	557070		
60	+0.090 +0.060	75	+0.062 +0.043						607550	607560	607570	607580	
65	+0.090 +0.060	80	+0.062 +0.043							658060	658070	658080	
70	+0.090 +0.060	90	+0.073 +0.051							709060	709070	709080	
75	+0.090 +0.060	95	+0.073 +0.051								759570		
80	+0.090 +0.060	100	+0.073 +0.051							8010060		8010080	
90	+0.107 +0.072	110	+0.076 +0.054							9011060		9011080	
100	+0.107 +0.072	120	+0.076 +0.054							10012060		10012080	
110	+0.107 +0.072	130	+0.088 +0.063										
120	+0.107 +0.072	140	+0.088 +0.063									12014080	
130	+0.125 +0.085	150	+0.090 +0.065										
140	+0.125 +0.085	160	+0.090 +0.065										
150	+0.125 +0.085	170	+0.093 +0.068										
160	+0.125 +0.085	180	+0.093 +0.068										
170	+0.125 +0.085	190	+0.106 +0.077										
180	+0.125 +0.085	200	+0.106 +0.077										
190	+0.146 +0.100	210	+0.109 +0.080										
200	+0.146 +0.100	230	+0.113 +0.084										

※Part No. with * are made-to-order.

※The I.D. tolerance after press fitting is for reference only.

▲ The dimensional tolerances are the values measured at $+25^{\circ}\text{C}$.

General • Underwater • Under Seawater



- Applicable to rotational, oscillating, and reciprocating motion.
- Be sure to apply grease supplied with the product to the inner sliding surface before assembling the bearing. Run in the bearing.
- May be used over the maximum allowable speed or maximum allowable PV value in short-time intermittent operations. Inquire us in such a case.
- Use a stainless steel or chrome-plated (30μm or more) mating shaft when using the product in water, in seawater, in a water-splashed place, on the sea, etc.
- Use a mating shaft made of high-grade stainless steel with higher corrosion resistance or plated with thicker chrome when using the product in severe corrosive conditions. Supply grease for rust prevention.
- Provide the bushing with a set screw when using the product for high loads.
- Usable without the need for lubrication in the air and water. Use lithium grease with extreme pressure additive if greasing is required.

Length L Tolerance $\begin{smallmatrix} -0.1 \\ -0.3 \end{smallmatrix}$								I.D. tolerance after press fitting (reference)	I.D. φd
90	100	110	120	130	140	150	200		
								+0.031 +0.013	12
								+0.026 +0.008	15
								+0.026 +0.008	16
								+0.026 +0.008	18
								+0.037 +0.016	20
								+0.032 +0.011	25
								+0.032 +0.011	30
								+0.046 +0.021	35
								+0.046 +0.021	40
								+0.040 +0.015	40
								+0.040 +0.015	45
								+0.040 +0.015	50
								+0.040 +0.015	50
								+0.053 +0.023	55
								+0.053 +0.023	60
								+0.053 +0.023	65
709090	7090100							+0.046 +0.016	70
	7595100							+0.046 +0.016	75
8010090	80100100	80100110						+0.046 +0.016	80
9011090	90110100							+0.060 +0.025	90
	100120100		100120120					+0.060 +0.025	100
	110130100	110130110						+0.052 +0.017	110
	120140100		120140120					+0.052 +0.017	120
	130150100			130150130		130150150		+0.068 +0.028	130
	140160100				140160140			+0.068 +0.028	140
	150170100					150170150		+0.065 +0.025	150
	160180100					160180150		+0.065 +0.025	160
	*170190100					*170190150		+0.065 +0.025	170
	*180200100					*180200150		+0.065 +0.025	180
	*190210100					*190210150		+0.078 +0.032	190
						*200230150	*200230200	+0.078 +0.032	200

Selection Guide

Product Information

Plastic Bearing

Multi-layer Bearing

Metallic Bearing

Air Bearings

Slide Shifter

Technical Information

Corporate Profile