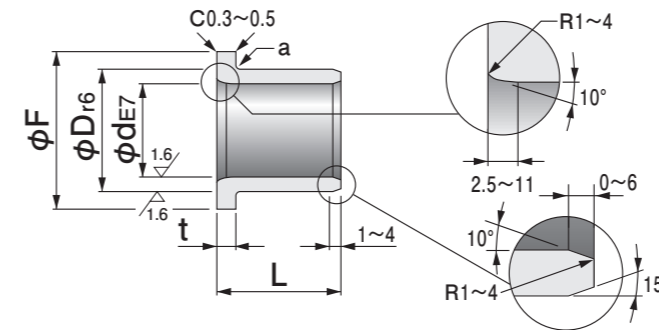
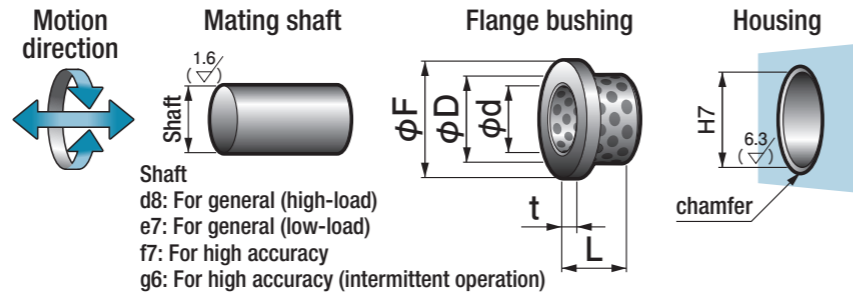


Specify Part No. by required I.D. and Length.
(e.g.) I.D. is 50mm and length is 30mm.

SPF - 5030 Part No.



- Applicable to rotational, oscillating, and reciprocating motion.
- Flange surface is not subject to a thrust load as no lubricant is embedded.
- Do not use this under water.
- 31.5mm I.D. and 63mm I.D bushing can be used as an intermediate trunnion bushing for hydraulic cylinders.

a: Chamfering for under flange

φd	~18	~65	~160
a	R0.3	R0.5	R1

(mm)

★ 4 model number of SPF-6040/6050/6080/6367 is R1.

I.D.		O.D.		Flange				Length L Tolerance -0.1 -0.3							
φd	Tolerance	φD	Tolerance	φF	Tolerance	t	Tolerance	10	12	15	17	18	20	23	25
6	+0.032 +0.020	10	+0.028 +0.019	16	0 -0.3	2	0 -0.1	0610	0612						
8	+0.040 +0.025	12	+0.034 +0.023	20	0 -0.3	2	0 -0.1	0810	0812	0815					
10	+0.040 +0.025	14	+0.034 +0.023	22	0 -0.3	2	0 -0.1	1010	1012	1015	1017		1020		
12	+0.050 +0.032	18	+0.034 +0.023	25	0 -0.3	3	0 -0.1	1210	1212	1215			1220		1225
13	+0.050 +0.032	19	+0.041 +0.028	26	0 -0.3	3	0 -0.1	1310	1312	1315			1320		1325
14	+0.050 +0.032	20	+0.041 +0.028	27	0 -0.3	3	0 -0.1			1415			1420		1425
15	+0.050 +0.032	21	+0.041 +0.028	28	0 -0.3	3	0 -0.1	1510	1512	1515			1520		1525
16	+0.050 +0.032	22	+0.041 +0.028	29	0 -0.3	3	0 -0.1		1612	1615		1618	1620	1623	1625
18	+0.050 +0.032	24	+0.041 +0.028	32	0 -0.3	3	0 -0.1			1815			1820		1825
20	+0.061 +0.040	30	+0.041 +0.028	40	0 -0.3	5	0 -0.1			2015			2020		2025
25	+0.061 +0.040	35	+0.050 +0.034	45	0 -0.3	5	0 -0.1			2515			2520		2525
30	+0.061 +0.040	40	+0.050 +0.034	50	0 -0.3	5	0 -0.1						3020		3025
31.5	+0.075 +0.050	40	+0.050 +0.034	50	0 -0.3	5	0 -0.1						3120		
35	+0.075 +0.050	45	+0.050 +0.034	60	0 -0.3	5	0 -0.1						3520		3525
40	+0.075 +0.050	50	+0.050 +0.034	65	0 -0.3	5	0 -0.1						4020		4025
45	+0.075 +0.050	55	+0.060 +0.041	70	0 -0.3	5	0 -0.1								
50	+0.075 +0.050	60	+0.060 +0.041	75	0 -0.3	5	0 -0.1								
55	+0.090 +0.060	65	+0.060 +0.041	80	0 -0.3	5	0 -0.1								
60	+0.090 +0.060	75	+0.062 +0.043	90	0 -0.3	7.5	0 -0.1								
63	+0.090 +0.060	75	+0.062 +0.043	85	0 -0.3	7.5	0 -0.1								
65	+0.090 +0.060	80	+0.062 +0.043	95	0 -0.3	7.5	0 -0.1								
70	+0.090 +0.060	85	+0.073 +0.051	105	0 -0.3	7.5	0 -0.1								
75	+0.090 +0.060	90	+0.073 +0.051	110	0 -0.3	7.5	0 -0.1								
80	+0.090 +0.060	100	+0.073 +0.051	120	0 -0.3	10	0 -0.1								
90	+0.107 +0.072	110	+0.076 +0.054	130	0 -0.3	10	0 -0.1								
100	+0.107 +0.072	120	+0.076 +0.054	150	0 -0.3	10	0 -0.1								
120	+0.107 +0.072	140	+0.088 +0.063	170	0 -0.3	10	0 -0.1								
130	+0.125 +0.085	150	+0.090 +0.065	180	0 -0.3	10	0 -0.1								
140	+0.125 +0.085	160	+0.090 +0.065	190	0 -0.3	10	0 -0.1								
150	+0.125 +0.085	170	+0.093 +0.068	200	0 -0.3	10	0 -0.1								
160	+0.125 +0.085	180	+0.093 +0.068	210	0 -0.3	10	0 -0.1								

*Part No. with * are made-to-order.

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

Length L Tolerance -0.1 -0.3										I.D. tolerance after press fitting (reference)	I.D. φd
30	35	40	50	60	67.5	80	100	120			
										+0.016 +0.004	6
										+0.021 +0.006	8
										+0.021 +0.006	10
1230										+0.031 +0.013	12
1330										+0.026 +0.008	13
										+0.026 +0.008	14
1530										+0.026 +0.008	15
1630	1635	1640								+0.026 +0.008	16
1830	1835	1840								+0.026 +0.008	18
2030	2035	2040								+0.037 +0.016	20
2530	2535	2540	2550							+0.032 +0.011	25
3030	3035	3040	3050							+0.032 +0.011	30
3130	3135	3140								+0.046 +0.021	31.5
3530	3535	3540	3550							+0.046 +0.021	35
4030	4035	4040	4050							+0.046 +0.021	40
4530	4535	4540	4550	4560						+0.040 +0.015	45
5030	5035	5040	5050	5060						+0.040 +0.015	50
		5540		5560						+0.055 +0.025	55
		★ 6040	★ 6050	6060		★ 6080				+0.053 +0.023	60
						★ 6367				+0.053 +0.023	63
				6560						+0.053 +0.023	65
			7050			7080				+0.046 +0.016	70
				7560						+0.046 +0.016	75
				8060		8080	80100			+0.046 +0.016	80
				9060		9080				+0.060 +0.025	90
						10080	100100			+0.060 +0.025	100
						12080	120100			+0.052 +0.017	120
						*13080	*130100			+0.068 +0.028	130
						*14080	*140100			+0.068 +0.028	140
							*150100	*150120		+0.065 +0.025	150
							*160100	*160120		+0.065 +0.025	160