

SPHERICAL BUSHINGS

Steel-on-steel Spherical Bushings



Shaft dia. 12 – 100mm

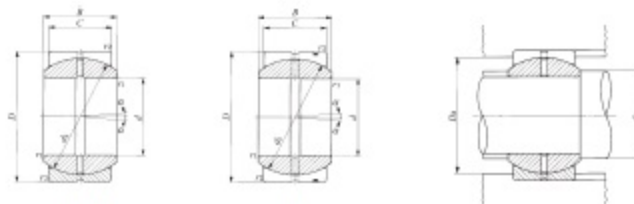
Shaft dia. mm	Identification number		Mass (Ref.) kg	Boundary dimensions mm						Permissible tilting angle degree	
				d	D	B	C	d_k	$r_{2 \text{ min}}^{(1)}$	α	
12	SB 12A	SB 122211	0.019	12	22	11	9	18	0.3	7	
15	SB 15A	SB 152613	0.028	15	26	13	11	22	0.3	6	
20	SB 20A	SB 203216	0.053	20	32	16	14	28	0.3	4	
22	SB 22A	SB 223719	0.085	22	37	19	16	32	0.3	6	
25	SB 25A	SB 254221	0.116	25	42	21	18	36	0.3	5	
30	SB 30A	SB 305027	0.225	30	50	27	23	45	0.6	6	
35	SB 35A	SB 355530	0.300	35	55	30	26	50	0.6	5	
40	SB 40A	SB 406233	0.375	40	62	33	28	55	0.6	6	
45	SB 45A	SB 457236	0.600	45	72	36	31	62	0.6	5	
50	SB 50A	SB 508042	0.870	50	80	42	36	72	0.6	5	
55	SB 55A	SB 559047	1.26	55	90	47	40	80	0.6	5	
60	SB 60A	SB 6010053	1.70	60	100	53	45	90	0.6	6	
65	SB 65A	SB 6510555	2.05	65	105	55	47	94	0.6	5	
70	SB 70A	SB 7011058	2.22	70	110	58	50	100	0.6	5	
75	SB 75A	SB 7512064	3.02	75	120	64	55	110	0.6	5	
80	SB 80A	SB 8013070	3.98	80	130	70	60	120	0.6	5	
85	SB 85A	SB 8513574	4.29	85	135	74	63	125	0.6	6	
90	SB 90A	SB 9014076	4.71	90	140	76	65	130	0.6	5	
95	SB 95A	SB 9515082	6.05	95	150	82	70	140	0.6	5	
100	SB 100A	SB 10016088	7.42	100	160	88	75	150	1	5	

Note⁽¹⁾ Minimum allowable value of chamfer dimensions r_1 and r_2

(2) When Spherical Bushings are used with full tilting angle, the shaft shoulder dimension must be less than the maximum value of d_k .

Remark 1. The inner ring and the outer ring have an oil groove and two oil holes, respectively.

2. Not provided with prepacked grease. Perform proper lubrication for use.



SB...A

SB

Mounting dimensions mm				Dynamic load capacity C_d N	Static load capacity C_s N
d_s Min.	d_s Max. ⁽²⁾	D_s Max.	D_s Min.		
14	14	19.5	17	15 900	95 300
17.5	17.5	23.5	21	23 700	142 000
22.5	23	29.5	26	38 400	231 000
24.5	25.5	34.5	30	50 200	301 000
27.5	29	39.5	34	63 500	381 000
34.5	36	45.5	42	101 000	609 000
39.5	40	50.5	46.5	127 000	765 000
44	44	57.5	51.5	151 000	906 000
49.5	50.5	67.5	58	188 000	1 130 000
54.5	58.5	75.5	67	254 000	1 530 000
59.5	64.5	85.5	74.5	314 000	1 880 000
64.5	72.5	95.5	83.5	397 000	2 380 000
69.5	76	100.5	87	433 000	2 600 000
74.5	81.5	105.5	93	490 000	2 940 000
79.5	89.5	115.5	102	593 000	3 560 000
84.5	97.5	125.5	112	706 000	4 240 000
89.5	100.5	130.5	116	772 000	4 630 000
94.5	105.5	135.5	121	829 000	4 970 000
99.5	113.5	145.5	130	961 000	5 770 000
105.5	121.5	154.5	139	1 100 000	6 620 000

1N=0.102kgf=0.2248lbs.
1mm=0.03937inch