

SPHERICAL BUSHINGS

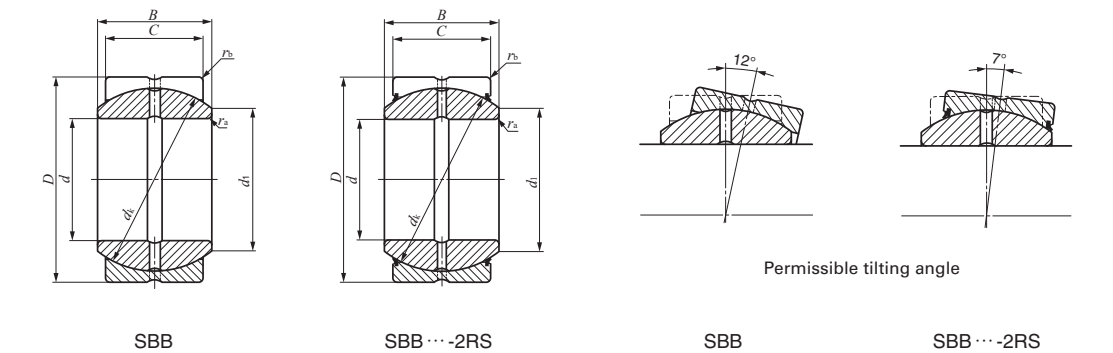
Steel-on-steel Spherical Bushings **Inch Series**



Shaft dia. 12.700 — 63.500mm

Shaft dia. mm (inch)	Identification number		Mass (Ref.) kg	Boundary dimensions mm(inch)			
	Without seal	With seals		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>
12.700 (1/2)	SBB 8	—	0.020	12.700 (1/2)	22.225 (7/8)	11.10(.437)	9.52(.375)
15.875 (5/8)	SBB 10	—	0.036	15.875 (5/8)	26.988 (1 1/16)	13.89(.547)	11.91(.469)
19.050 (3/4)	SBB 12	SBB 12-2RS	0.057	19.050 (3/4)	31.750 (1 1/4)	16.66(.656)	14.27(.562)
22.225 (7/8)	SBB 14	SBB 14-2RS	0.088	22.225 (7/8)	36.512 (1 7/16)	19.43(.765)	16.66(.656)
25.400 (1)	SBB 16	SBB 16-2RS	0.125	25.400 (1)	41.275 (1 5/8)	22.22(.875)	19.05(.750)
31.750 (1 1/4)	SBB 20	SBB 20-2RS	0.234	31.750 (1 1/4)	50.800 (2)	27.76(1.093)	23.80(.937)
34.925 (1 3/8)	SBB 22	SBB 22-2RS	0.349	34.925 (1 3/8)	55.562 (2 3/16)	30.15(1.187)	26.19(1.031)
38.100 (1 1/2)	SBB 24	SBB 24-2RS	0.424	38.100 (1 1/2)	61.912 (2 7/16)	33.32(1.312)	28.58(1.125)
44.450 (1 3/4)	SBB 28	SBB 28-2RS	0.649	44.450 (1 3/4)	71.438 (2 13/16)	38.89(1.531)	33.32(1.312)
50.800 (2)	SBB 32	SBB 32-2RS	0.939	50.800 (2)	80.962 (3 3/16)	44.45(1.750)	38.10(1.500)
57.150 (2 1/4)	SBB 36	SBB 36-2RS	1.32	57.150 (2 1/4)	90.488 (3 9/16)	50.01(1.969)	42.85(1.687)
63.500 (2 1/2)	SBB 40	SBB 40-2RS	1.85	63.500 (2 1/2)	100.012 (3 15/16)	55.55(2.187)	47.62(1.875)

Note(1) Maximum allowable corner radius of the shaft or housing
Remarks1. The value with mark * is applicable to types without seals. For types with seals, the value is 0.4 mm.
2. The inner ring and the outer ring have an oil groove and two oil holes, respectively.
3. No grease is prepacked. Perform proper lubrication.



<i>d_k</i>	Radial internal clearance	Mounting dimensions mm			Dynamic load capacity	Static load capacity
	mm Min./Max.	<i>d</i> ₁	⁽¹⁾ <i>r</i> _{as max} Max.	⁽¹⁾ <i>r</i> _{bs max} Max.	<i>C_d</i> N	<i>C_s</i> N
18 (.709)	0.05 / 0.15	14.0	0.2	0.6	16 800	101 000
23 (.906)	0.05 / 0.15	17.9	0.2	0.8	26 900	161 000
27.5(1.083)	0.08 / 0.18	21.4	0.6	*0.8	38 500	231 000
32 (1.260)	0.08 / 0.18	25.0	0.6	*0.8	52 300	314 000
36 (1.417)	0.08 / 0.18	28.0	0.6	*0.8	67 300	404 000
45 (1.772)	0.08 / 0.18	35.1	0.6	0.8	105 000	630 000
49 (1.929)	0.08 / 0.18	38.5	0.6	0.8	126 000	755 000
55 (2.165)	0.08 / 0.18	43.3	0.6	0.8	154 000	925 000
64 (2.520)	0.08 / 0.18	50.4	0.6	0.8	209 000	1 250 000
73 (2.874)	0.08 / 0.18	57.6	0.6	0.8	273 000	1 640 000
82 (3.228)	0.10 / 0.20	64.9	0.6	0.8	345 000	2 070 000
91 (3.583)	0.10 / 0.20	72.0	0.6	0.8	425 000	2 550 000

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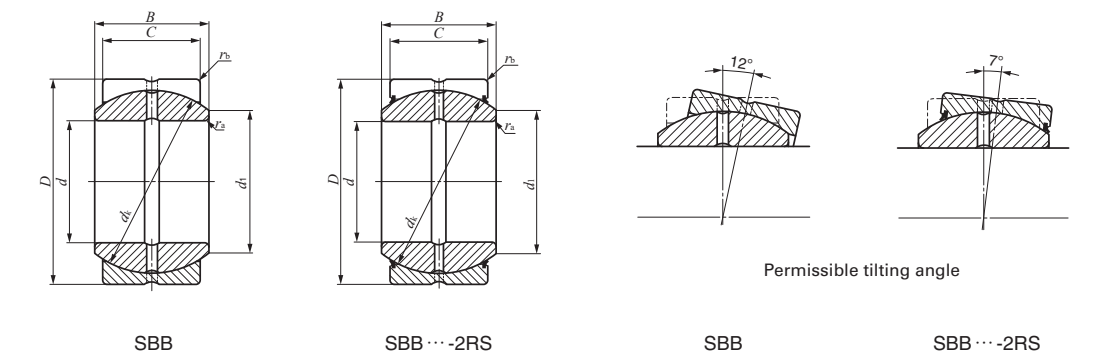
Steel-on-steel Spherical Bushings **Inch Series**



Shaft dia. 69.850 — 152.400mm

Shaft dia. mm (inch)	Identification number		Mass (Ref.) kg	Boundary dimensions mm(inch)			
	Without seal	With seals		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>
69.850 (2¾)	SBB 44	SBB 44-2RS	2.44	69.850 (2¾)	111.125 (4¾)	61.11(2.406)	52.37(2.062)
76.200 (3)	SBB 48	SBB 48-2RS	3.12	76.200 (3)	120.650 (4¾)	66.68(2.625)	57.15(2.250)
82.550 (3¼)	SBB 52	SBB 52-2RS	3.92	82.550 (3¼)	130.175 (5¼)	72.24(2.844)	61.90(2.437)
88.900 (3½)	SBB 56	SBB 56-2RS	4.83	88.900 (3½)	139.700 (5½)	77.77(3.062)	66.68(2.625)
95.250 (3¾)	SBB 60	SBB 60-2RS	5.87	95.250 (3¾)	149.225 (5¾)	83.34(3.281)	71.42(2.812)
101.600 (4)	SBB 64	SBB 64-2RS	7.07	101.600 (4)	158.750 (6¼)	88.90(3.500)	76.20(3.000)
107.950 (4¼)	SBB 68	SBB 68-2RS	8.46	107.950 (4¼)	168.275 (6½)	94.46(3.719)	80.95(3.187)
114.300 (4½)	SBB 72	SBB 72-2RS	9.94	114.300 (4½)	177.800 (7)	100.00(3.937)	85.72(3.375)
120.650 (4¾)	SBB 76	SBB 76-2RS	11.6	120.650 (4¾)	187.325 (7¾)	105.56(4.156)	90.47(3.562)
127.000 (5)	SBB 80	SBB 80-2RS	13.5	127.000 (5)	196.850 (7¾)	111.12(4.375)	95.25(3.750)
152.400 (6)	SBB 96	SBB 96-2RS	17.6	152.400 (6)	222.250 (8¾)	120.65(4.750)	104.78(4.125)

Note(1) Maximum allowable corner radius of the shaft or housing
Remarks1. The inner ring and the outer ring have an oil groove and two oil holes, respectively.
2. No grease is prepacked. Perform proper lubrication.



<i>d_k</i>	Radial internal clearance	Mounting dimensions mm			Dynamic load capacity	Static load capacity
	mm Min./Max.	<i>d</i> ₁	⁽¹⁾ <i>r</i> _{as max} Max.	⁽¹⁾ <i>r</i> _{bs max} Max.	<i>C_d</i> N	<i>C_s</i> N
100(3.937)	0.10 / 0.20	79.0	0.6	0.8	514 000	3 080 000
110(4.331)	0.10 / 0.20	86.5	0.6	0.8	616 000	3 700 000
119(4.685)	0.13 / 0.23	94.1	0.6	0.8	722 000	4 330 000
128(5.039)	0.13 / 0.23	101.6	0.6	0.8	837 000	5 020 000
137(5.394)	0.13 / 0.23	108.4	0.6	0.8	960 000	5 760 000
146(5.748)	0.13 / 0.23	115.8	0.6	0.8	1 090 000	6 550 000
155(6.102)	0.13 / 0.23	122.6	0.8	1.1	1 230 000	7 380 000
164(6.457)	0.13 / 0.23	129.8	0.8	1.1	1 380 000	8 270 000
173(6.811)	0.13 / 0.23	136.8	0.8	1.1	1 530 000	9 210 000
183(7.205)	0.13 / 0.23	144.9	0.8	1.1	1 710 000	10 300 000
207(8.150)	0.13 / 0.23	167.5	0.8	1.1	2 130 000	12 800 000