

Standard Linear Bushings

Standard Linear Bushings, R0600 closed type, without seal

Standard Linear Bushings, R0602 closed type, with seals

Structural design

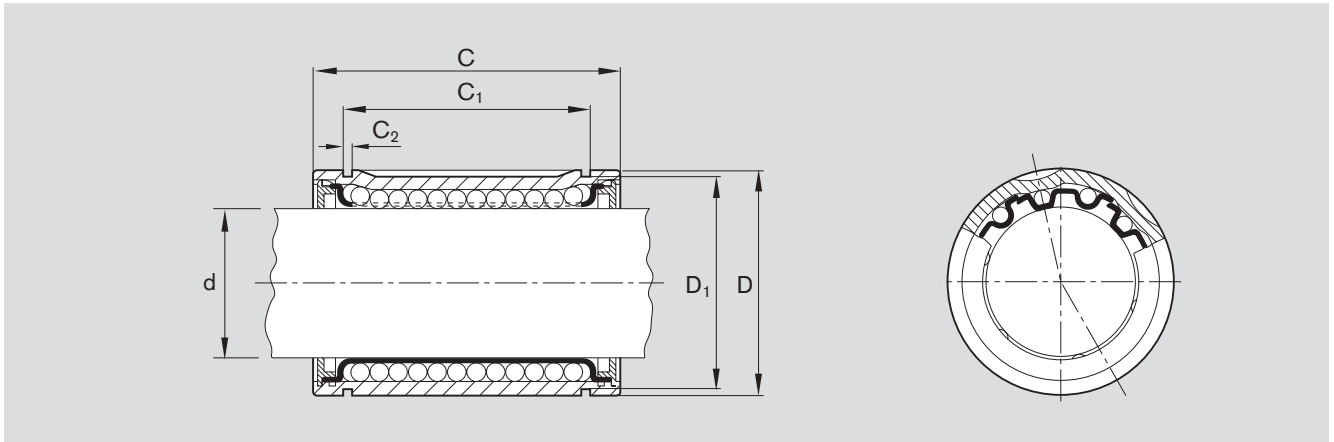
- Hardened and ground outer sleeve
- Steel ball retainer (plastic ball retainer in sizes 5 and 8)
- Balls made of anti-friction bearing steel
- Internal steel holding rings or seals
- Closed version, for use on unsupported shafts



Shaft Ø d [mm]	Part numbers		Mass [kg]
	without seal	with two seals	
3	R0600 303 00	–	0.001
4	R0600 304 00	–	0.002
5	R0600 305 00	R0602 305 10	0.010
8	R0600 308 00	R0602 308 10	0.020
10	R0600 310 00	R0602 310 10	0.030
12	R0600 012 00	R0602 012 10	0.040
16	R0600 016 00	R0602 016 10	0.050
20	R0600 020 00	R0602 020 10	0.100
25	R0600 025 00	R0602 025 10	0.190
30	R0600 030 00	R0602 030 10	0.320
40	R0600 040 00	R0602 040 10	0.620
50	R0600 050 00	R0602 050 10	1.140
60	R0600 060 00	R0602 060 10	2.110
80	R0600 080 00	R0602 080 10	4.700

With one seal: R0601 ... 10.

Dimensions



Ø d	Dimensions [mm]					No. of ball circuits	Working bore diameter tolerance [µm]	Radial clearance ¹⁾ [µm]		Load capacities [N]			
	D h5	C h12	C ₁ H13	C ₂	D ₁			h6	h7	dyn. C		stat. C ₀	
										min	max	min	max
3²⁾	7 ³⁾	10	–	–	–	4	+8 0	+12 +2	+15 +3	55	65	45	65
4²⁾	8 ³⁾	12	–	–	–	4	+8 0	+14 +2	+17 +3	70	80	60	85
5²⁾	12	22	14.2	1.1	11.1	4	+11 +1	+16 +4	+20 +4	180	210	140	200
8²⁾	16	25	16.2	1.1	14.7	4	+12 +2	+18 +5	+24 +5	320	370	240	330
10²⁾	19	29	21.6	1.3	18	4	+8 0	+18 +5	+24 +5	300	350	260	370
12	22	32	22.6	1.3	20.5	4	+12 +2	+20 +5	+26 +6	420	480	280	400
16	26	36	24.6	1.3	24.9	4	+14 +2	+22 +5	+28 +6	580	670	440	620
20	32	45	31.2	1.6	30.5	5	+14 +2	+23 +6	+31 +6	1170	1390	860	1250
25	40	58	43.7	1.85	38.5	5	+16 +2	+25 +6	+32 +7	2080	2480	1560	2280
30	47	68	51.7	1.85	44.5	6	+16 +2	+25 +6	+32 +7	2820	2980	2230	2860
40	62	80	60.3	2.15	58	6	+19 +2	+30 +7	+38 +8	5170	5480	3810	4880
50	75	100	77.3	2.65	71	6	+19 +2	+30 +7	+38 +8	8260	8740	6470	8280
60	90	125	101.3	3.15	85	6	+19 +2	+33 +7	+43 +8	11500	12100	9160	11730
80	120	165	133.3	4.15	114	6	+24 +2	+37 +8	+47 +9	21000	22200	16300	20850

¹⁾ Statistically determined from the working bore diameter and shaft tolerance. Recommended housing bore tolerance: H6 or H7.

²⁾ Sizes 3, 4, 5, 8 and 10 have a plastic ball retainer.

³⁾ Tolerance h6

The figures for dynamic load-carrying capacity have been calculated assuming a nominal travel of 100,000 m. For a nominal travel of 50,000 m, the "C" figures in the table must be multiplied by a factor of 1.26.

