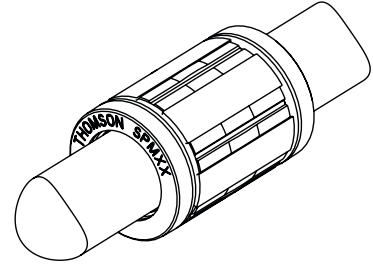
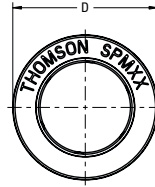
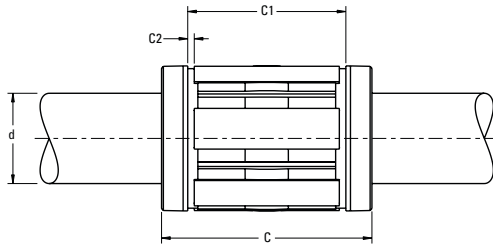


Metric – Super Ball Bushing Bearings

Super Ball Bushing Bearings (Closed Type) for End Supported Applications



Super Metric Ball Bushing Bearings (Closed Type)

Part Number			Dimensions (mm)					Number of ball tracks	Mass (kg)	Dynamic Load $W^{(1)}$ (3) (N)	Load Limit $W_0^{(2)}$ (3) (N)
Without Integral Wipers	With One Integral Wiper	With Two Integral Wipers	$\phi d^{(4)}$	ϕD	C h14	C1 h13	C2 min				
SPM 08	SPM 08 W	SPM 08 WW	8	16	25	16.2	1.10	4	0.02	310	340
SPM 12	SPM 12 W	SPM 12 WW	12	22	32	22.6	1.30	5	0.02	830	910
SPM 16	SPM 16 W	SPM 16 WW	16	26	36	24.6	1.30	5	0.03	1020	1120
SPM 20	SPM 20 W	SPM 20 WW	20	32	45	31.2	1.60	6	0.06	2020	2220
SPM 25	SPM 25 W	SPM 25 WW	25	40	58	43.7	1.85	6	0.13	3950	4350
SPM 30	SPM 30 W	SPM 30 WW	30	47	68	51.7	1.85	6	0.19	4800	5280
SPM 40	SPM 40 W	SPM 40 WW	40	62	80	60.3	2.15	6	0.36	8240	9060
SPM 50	SPM 50 W	SPM 50 WW	50	75	100	77.3	2.65	6	0.66	12060	13270

- (1) For rated travel life of 100 km. For longer travel lives, reduce load to $W \cdot (100/L)^{0.33}$ where L (km) is the required travel life. Do not exceed the Dynamic Load Rating for travel life of less than 100 km.
- (2) The Load Limit is the maximum load that may be applied to a bearing and shaft. It is important to analyze the application so that peak and/or shock loads do not exceed the Load Limit.
- (3) The load capacities W and W_0 are valid for a resultant load applied at 90° with the ball tracks oriented as shown in the polar graphs below. If the resultant acts along another direction, the appropriate multiplicative correction factor K_θ should be applied to W and W_0 respectively.
- (4) Internal bearing diameter is affected by the housing bore, see Table 1.
- NOTE: External seals and retaining rings are available. See page 167 for specifications.
- NOTE: For additional technical information, see the Engineering section beginning on page 262.
- NOTE: For a corrosion resistant bearing add suffix-CR to the part number and reduce the load capacity by 30%.

