

LINEAR BALL BEARINGS



Example **SM 16 G UU AJ OP**

Standard

Inner contact diameter

Retainer material

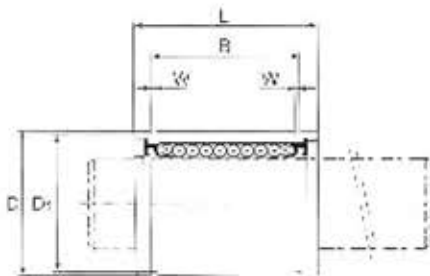
Blank	Steel
G	Resin

Open type

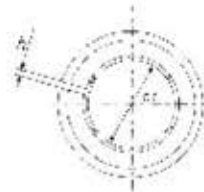
Clearance-adjustable type

Seal

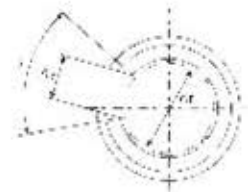
Blank	Without seal
U	Seal on one side
UU	Seals on both sides



SM



SM...AJ



SM...OP

Nominal Part No.				Nominal Shaft Diameter (mm)	Major Dimensions and Tolerance (mm)										Eccentricity (max) μ m	Radial Clearance (max) Mm	Basic Load CN	Rating CoN	Nominal Part No
Steel Retainer	Ball Weight	Adjustable Type	Open Type		dr Tolerance	D Tolerance	L Tolerance	B Tolerance	W	D _i	h	h ₁	θ						
SM 4 SM 4G SM 5 SM 5G	4 1.4 4 4	— — — —	— — — —	4 $\begin{matrix} 0 \\ -0.008 \end{matrix}$ 5 $\begin{matrix} 0 \\ -0.008 \end{matrix}$	8 $\begin{matrix} 0 \\ -0.009 \end{matrix}$ 10 $\begin{matrix} 0 \\ -0.009 \end{matrix}$	12 $\begin{matrix} 0 \\ -0.12 \end{matrix}$ 15 $\begin{matrix} 0 \\ -0.12 \end{matrix}$	10.2 $\begin{matrix} 0 \\ -0.05 \end{matrix}$	1.1	9.6	—	—	—	—	8	-3	167	206	SM 5	
SM 6 SM 6G SM 8S SM 8SG SM 8 SM 8G	4 8 4 11 4 16	SM 6-AJ SM 6G-AJ SM 8S-AJ SM 8S-AJ SM 8-AJ SM 8G-AJ	— — — — — —	6 $\begin{matrix} 0 \\ -0.008 \end{matrix}$ 8 $\begin{matrix} 0 \\ -0.011 \end{matrix}$ 8 $\begin{matrix} 0 \\ -0.011 \end{matrix}$	12 $\begin{matrix} 0 \\ -0.011 \end{matrix}$ 15 $\begin{matrix} 0 \\ -0.011 \end{matrix}$ 15 $\begin{matrix} 0 \\ -0.011 \end{matrix}$	19 $\begin{matrix} 0 \\ -0.12 \end{matrix}$ 17 24	13.5 11.5 17.5	1.1 1.1 1.1	11.5 14.3 14.3	1 1 1	— — —	— — —	— — —	12 12 12	-5 -5 -5	200 170 260	260 220 400	SM 6 SM 8S SM 8	
SM 10 SM 10G SM 12 SM 12G SM 13 SM 13G	4 30 4 31.5 4 43	SM 10-AJ SM 10G-AJ SM 12-AJ SM 12G-AJ SM 13-AJ SM 13G-AJ	— — — — — —	10 0 12 -0.009 13	19 $\begin{matrix} 0 \\ -0.013 \end{matrix}$ 21 -0.013 23	29 30 0 32 -0.2	22 0 23 -0.2 23	1.3 1.3 1.3	18 20 22	1 1.5 1.5	8 9	80° 80°	—	12 12 12	-5 -5 -5	370 410 500	540 590 770	SM 10 SM 12 SM 13	
SM 16 SM 16G SM 20 SM 20G SM 25 SM 25G	5 69 5 87 6 220	SM 16-AJ SM 16G-AJ SM 20-AJ SM 20G-AJ SM 25-AJ SM 25G-AJ	SM 16-OP SM 16G-OP SM 20-OP SM 20G-OP SM 25-OP SM 25G-OP	16 $\begin{matrix} 0 \\ -0.010 \end{matrix}$ 20 0 25 -0.010	28 $\begin{matrix} 0 \\ -0.016 \end{matrix}$ 32 0 40 -0.016	37 42 59	26.5 30.5 41	1.6 1.6 1.85	27 30.5 38	1.5 1.5 2	11 11 12	80° 60° 50°	—	12 15 15	-7 -9 -9	770 860 980	1170 1370 1560	SM 16 SM 20 SM 25	
SM 30 SM 30G SM 35 SM 35G	6 250 6 390	SM 30-AJ SM 30G-AJ SM 35-AJ SM 35G-AJ	SM 30-OP SM 30G-OP SM 35-OP SM 35G-OP	30 $\begin{matrix} 0 \\ -0.012 \end{matrix}$ 35 0 38 -0.012	45 $\begin{matrix} 0 \\ -0.019 \end{matrix}$ 52 0 60 -0.019	64 70 0 85 -0.3	44.5 49.5 0 60.5 -0.3	1.85 2.1 3.15	43 49 66.5	2.5 2.5 3	15 17 30	50° 50° 50°	—	15 20 25	-9 -13 -16	1560 1660 4700	2740 3130 9990	SM 30 SM 35	
SM 40 SM 40G SM 50 SM 50G SM 60 SM 60G	6 585 6 1580 6 2000	SM 40-AJ SM 40G-AJ SM 50-AJ SM 50G-AJ SM 60-AJ SM 60G-AJ	SM 40-OP SM 40G-OP SM 50-OP SM 50G-OP SM 60-OP SM 60G-OP	40 $\begin{matrix} 0 \\ -0.015 \end{matrix}$ 50 0 60 -0.015	60 $\begin{matrix} 0 \\ -0.022 \end{matrix}$ 80 0 90 -0.022	80 100 110	60.5 74 85	2.1 2.6 3.15	57 76.5 86.5	3 3 3	20 25 30	50° 50° 50°	—	20 20 25	-13 -13 -16	2150 3820 4700	4010 7930 9990	SM 40 SM 50 SM 60	