SW TYPE

– Standard Type –

This type is an inch dimension series mainly used in the U.S.

part number structure example

SWS | 16 | G | R | UU - P

specification

SW	standard
SWS	anticorrosion

inner contact diameter

retainer material

blank	steel
G	resin

accuracy grade

blank	high
P	precision

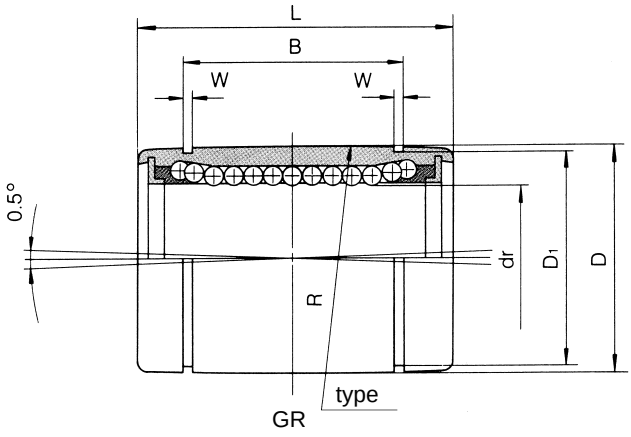
seal

blank	without seal
U	seal on one side
UU	seals on both sides

*Seal is not provided for SW 2 and 3 sizes.

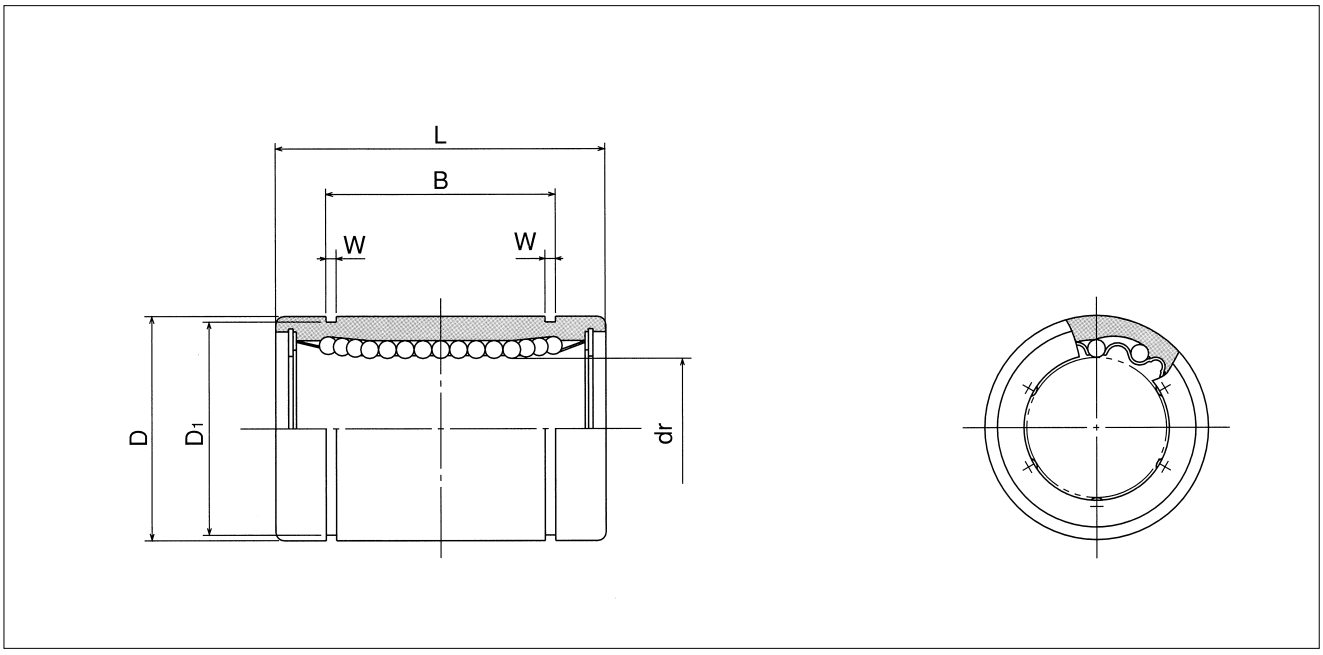
self aligning

blank	non self aligning
R	self aligning



part number					number of ball circuits	dr		D	
standard			anticorrosion			inch / mm	tolerance inch/μm	inch / mm	tolerance inch/μm
steel retainer	resin retainer		stainless retainer	resin retainer			precision / high		
–	–	–	SWS 2	SWS 2G	4	.1250 / 3.175	– / 0 −.00035	.3125 / 7.938	0 −.00040
–	–	–	SWS 3	SWS 3G	4	.1875 / 4.763	– / 0 − 8	.3750 / 9.525	0 − 9
SW 4	SW 4G	SW 4GR	SWS 4	SWS 4G	3*	.2500 / 6.350	0 −.00025 / 0 − 6	.5000 / 12.700	0 −.00045 −11
SW 6	SW 6G	SW 6GR	SWS 6	SWS 6G	4	.3750 / 9.525		.6250 / 15.875	0 −.00050 −13
SW 8	SW 8G	SW 8GR	SWS 8	SWS 8G	4	.5000 / 12.700	0 −.00040 / 0 − 9	.8750 / 22.225	
SW10	SW10G	SW10GR	SWS10	SWS10G	4	.625 / 15.875		1.1250 / 28.575	
SW12	SW12G	SW12GR	SWS12	SWS12G	5	.7500 / 19.050	0 −.00030 / 0 − 7	1.2500 / 31.750	0 −.00065
SW16	SW16G	SW16GR	SWS16	SWS16G	6	1.0000 / 25.400	0 −.00040 / 0 − 10	1.5625 / 39.688	0 −16
SW20	SW20G	SW20GR	SWS20	SWS20G	6	1.2500 / 31.750	0 −.00035 / 0 − 8	2.0000 / 50.800	0 −.00075
SW24	SW24G	SW24GR	SWS24	SWS24G	6	1.5000 / 38.100	0 −.00050 / 0 − 12	2.3750 / 60.325	0 −19
SW32	SW32G	SW32GR	SWS32	SWS32G	6	2.0000 / 50.800		3.0000 / 76.200	
SW40	–	–	–	–	6	2.5000 / 63.500	0 −.00040 / 0 − 9	3.7500 / 95.250	0 −.00090 0 −22
SW48	–	–	–	–	6	3.0000 / 76.200	0 −.00060 / 0 − 15	4.50000 / 114.300	
SW64	–	–	–	–	6	4.0000 / 101.600	0 −.00080 −20 / 0 −.00040 −10	6.0000 / 152.400	0 −.00100 −25

* 4 rows for resin retainer type.



major dimensions						eccentricity		radial clearance (maximum)	basic load rating		mass	shaft diameter
L		B		W	D_1				dynamic	static		
inch mm	tolerance inch/mm	inch mm	tolerance inch/mm	inch mm	inch mm	precision inch/μm	high inch/μm	inch/μm	C N	Co N	g	inch mm
.5000 12.700	0 −.008 0 −0.2	.3681 9.35	0 −.008 0 −0.2	.0280 0.710	.2902 7.370	–	.0003 8	−.0001 − 2	59	76	2.8	1/8 3.175
.5625 14.275		.4311 10.95		.0280 0.710	.3520 8.940			−.0001 − 3	91	110	3.6	3/16 4.763
.7500 19.050		.5110 12.98		.0390 0.992	.4687 11.906	.0003 8	.0005 12		206	265	9.5	1/4 6.350
.8750 22.225		.6358 16.15		.0390 0.992	.5880 14.935				225	314	15	3/8 9.525
1.2500 31.750		.9625 24.46		.0459 1.168	.8209 20.853			−.0001 − 4	510	784	42	1/2 12.700
1.5000 38.100		1.1039 28.04		.0559 1.422	1.0590 26.899				774	1,180	85	5/8 15.875
1.6250 41.275		1.1657 29.61		.0559 1.422	1.1760 29.870	.0004 10	.0006 15	−.0002 − 6	862	1,370	104	3/4 19.050
2.2500 57.150	0 −.012 0 −0.3	1.7547 44.57	0 −.012 0 −0.3	.0679 1.727	1.4687 37.306				980	1,570	220	1 25.400
2.6250 66.675		2.0047 50.92		.0679 1.727	1.8859 47.904	.0005 12	.0008 20	−.0003 − 8	1,570	2,740	465	1-1/4 31.750
3.0000 76.200		2.4118 61.26		0.859 2.184	2.2389 56.870				2,180	4,020	720	1-1/2 38.100
4.0000 101.600		3.1917 81.07		.1029 2.616	2.8379 72.085	.0007 17	.0010 25	−.0005 − 13	3,820	7,940	1,310	2 50.800
5.0000 127.000		3.9760 100.99		.1200 3.048	3.5519 90.220				4,700	10,000	2,600	2-1/2 63.500
6.0000 152.400	0 −.016 0 −0.4	4.726 120.04	0 −.016 0 −0.4	.1200 3.048	4.3100 109.474			−.0008 − 20	7,350	16,000	4,380	3 76.200
8.0000 203.200		6.258 158.95		.1389 3.530	5.745 145.923	.0008 20	.0012 30		14,100	34,800	10,200	4 101.600

1N≒0.225lbs 1kg≒2.205lbs