SW TYPE (Inch Standard)

– Standard Type –

part number structure

example **SWS 16 G R UU - P**

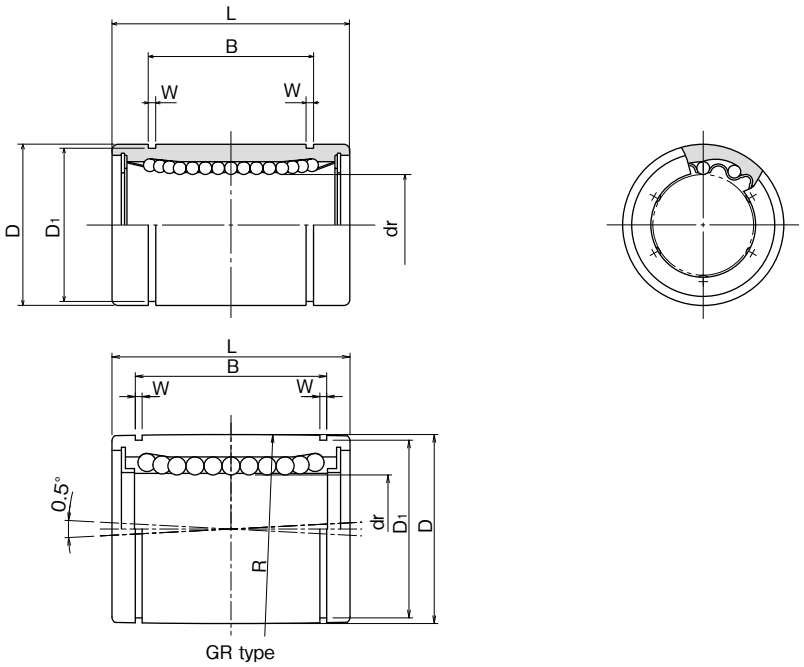
- specification
  - **SW**: standard
  - **SWS**: anti-corrosion
- size
- retainer material
  - **blank**: standard/steel
  - anti-corrosion/stainless steel
  - **G**: resin
- self aligning
  - **blank**: non self aligning
  - **R**: self aligning ※
- seal
  - **blank**: without seal
  - **U**: seal on one side
  - **UU**: seals on both sides

*Seals are not available on SWS2 and SWS3.

- accuracy grade
  - **blank**: high
  - **P**: precision

※ Precision grade is not available for the self-aligning type.

※Self-aligning is available only with resin retainer for size 4 to 32 of carbon steel cylinder.



partnumber					number of ball circuits	majordimensions dr			D	
steel retainer	standard resinretainer		anti-corrosion stainless retainer	anti-corrosion resin retainer		inch (mm)	tolerance inch/(μm) precision	tolerance inch/(μm) high	inch (mm)	tolerance inch/(μm)
–	–	–	SWS2	SWS2G	4	.1250 (3.175)	–	0 −.00035 (−8)	.3125 (7.938)	0 −.00040 (−9)
–	–	–	SWS3	SWS3G	4	.1875 (4.763)			.3750 (9.525)	
SW4	SW4G	SW4GR	SWS4	SWS4G	4	.2500 (6.350)	0 −.00025 (−6)	0 −.00040 (−9)	.5000 (12.700)	0 −.00045 (−11)
SW6	SW6G	SW6GR	SWS6	SWS6G	4	.3750 (9.525)			.6250 (15.875)	0 −.00050 (−13)
SW8	SW8G	SW8GR	SWS8	SWS8G	4	.5000 (12.700)			.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 (−7)	0 −.00040 (−10)	1.2500 (31.750)	0 −.00065 (−16)
SW16	SW16G	SW16GR	SWS16	SWS16G	6	1.0000 (25.400)			1.5625 (39.688)	
SW20	SW20G	SW20GR	SWS20	SWS20G	6	1.2500 (31.750)	0 −.00035 (−8)	0 −.00050 (−12)	2.0000 (50.800)	0 −.00075 (−19)
SW24	SW24G	SW24GR	SWS24	SWS24G	6	1.5000 (38.100)			2.3750 (60.325)	
SW32	SW32G	SW32GR	SWS32	SWS32G	6	2.0000 (50.800)			3.0000 (76.200)	0 −.00090 (−22)
SW40	–	–	–	–	6	2.5000 (63.500)	0 −.00040 (−9)	0 −.00060 (−15)	3.7500 (95.250)	
SW48	–	–	–	–	6	3.0000 (76.200)			4.5000 (114.300)	
SW64	–	–	–	–	6	4.0000 (101.600)	0 −.00040 (−10)	0 −.00080 (−20)	6.0000 (152.400)	0 −.00100 (−25)

L		B		W	D_1	eccentricity		radial clearance	basicloadrating		mass	shaft diameter
inch (mm)	tolerance inch/(mm)	inch (mm)	tolerance inch/(mm)	inch (mm)	inch (mm)	precision inch/(μm)	high inch/(μm)	(maximum) inch/(μm)	dynamic C N	static Co N	g	inch (mm)
.5000 (12.700)	0 −.008 (−0.2)	.3681 (9.35)	0 −.008 (−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 (−0.3)	1.7547 (44.57)	0 −.012 (−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)		.0859 (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 (−0.4)	4.726 (120.04)	0 −.016 (−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≒0.225lbf 1kg≒2.205lbs