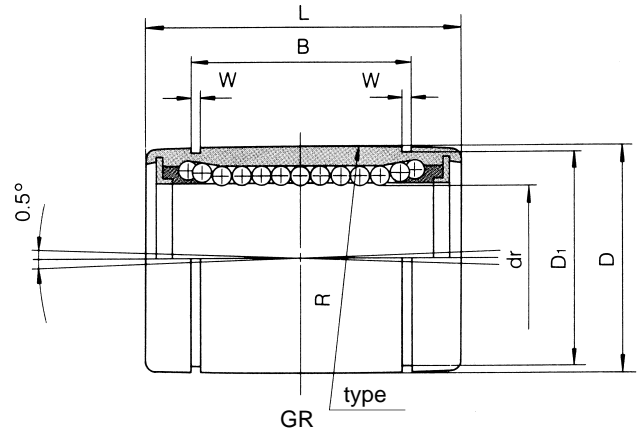
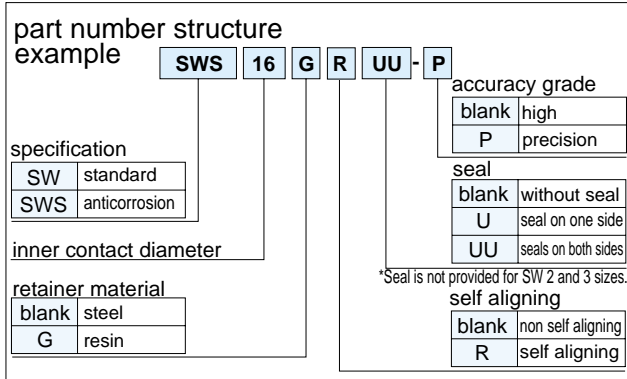


# SW TYPE

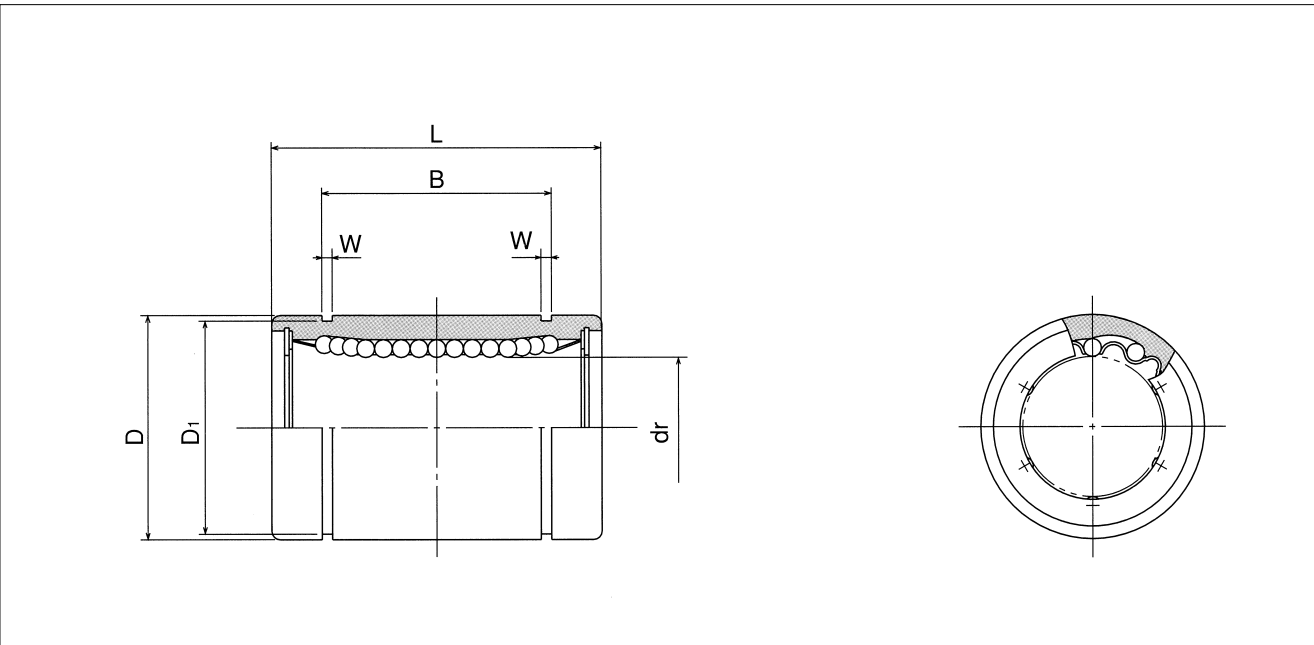
## – Standard Type –

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



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

\* 4 rows for resin retainer type.



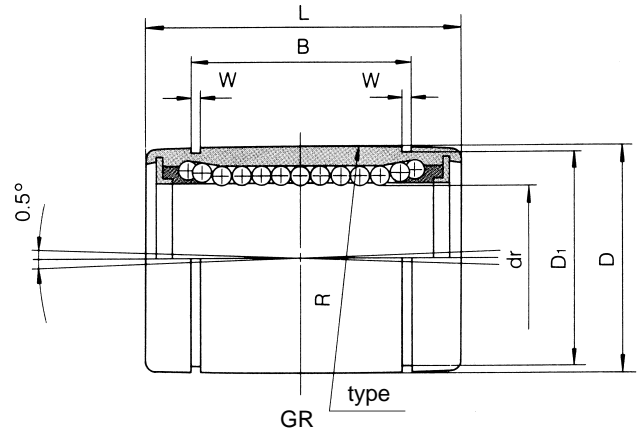
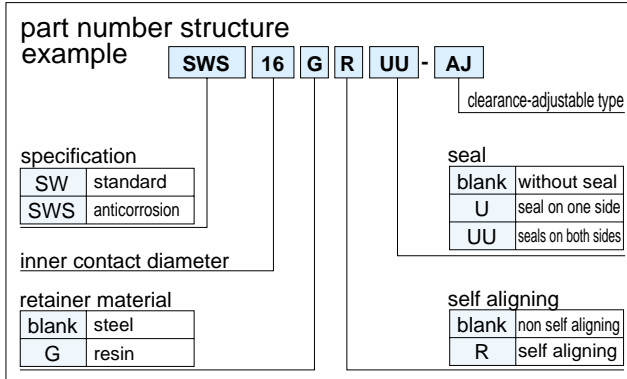
major dimensions						eccentricity		radial clearance (maximum) inch/ $\mu$ m	basic load rating		mass g	shaft diameter inch mm
inch mm	tolerance inch/mm	inch mm	tolerance inch/mm	inch mm	inch mm	precision inch/ $\mu$ m	high inch/ $\mu$ m		C N	Co N		
.5000 12.700		.3681 9.35		.0280 0.710	.2902 7.370	-	.0003	-.0001 - 2	59	76	2.8	1/8 3.175
.5625 14.275		.4311 10.95		.0280 0.710	.3520 8.940				8	91	110	3.6
.7500 19.050	0 -.008	.5110 12.98	0 -.008	.0390 0.992	.4687 11.906	.0003	.0005	-.0001 - 3	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	0 -.02	.9625 24.46	0 -.02	.0459 1.168	.8209 20.853	8	12	-.0001	510	784	42	1/2 12.700
1.5000 38.100		1.1039 28.04		.0559 1.422	1.0590 26.899	.0004	.0006	-.0002	774	1,180	85	5/8 15.875
1.6250 41.275		1.1657 29.61		.0559 1.422	1.1760 29.870				862	1,370	104	3/4 19.050
2.2500 57.150		1.7547 44.57		.0679 1.727	1.4687 37.306	10	15	- 6	980	1,570	220	1 25.400
2.6250 66.675		2.0047 50.92		.0679 1.727	1.8859 47.904	.0005	.0008	-.0003	1,570	2,740	465	1-1/4 31.750
3.0000 76.200	0 -.012	2.4118 61.26	0 -.012	0.859 2.184	2.2389 56.870	12	20	- 8	2,180	4,020	720	1-1/2 38.100
4.0000 101.600	0 -.03	3.1917 81.07	0 -.03	.1029 2.616	2.8379 72.085	.0007	.0010	-.0005	3,820	7,940	1,310	2 50.800
5.0000 127.000	3.9760 100.99	.1200 3.048	3.5519 90.220	17	25				-.0008	4,700	10,000	2,600
6.0000 152.400	0 -.016	4.726 120.04	0 -.016	.1200 3.048	4.3100 109.474	.0008	.0012	- 20	7,350	16,000	4,380	3 76.200
8.0000 203.200	0 -.04	6.258 158.95	0 -.04	.1389 3.530	5.745 145.923				20	30	14,100	34,800

1N $\approx$ 0.225lbs 1kg $\approx$ 2.205lbs

# SW-AJ TYPE

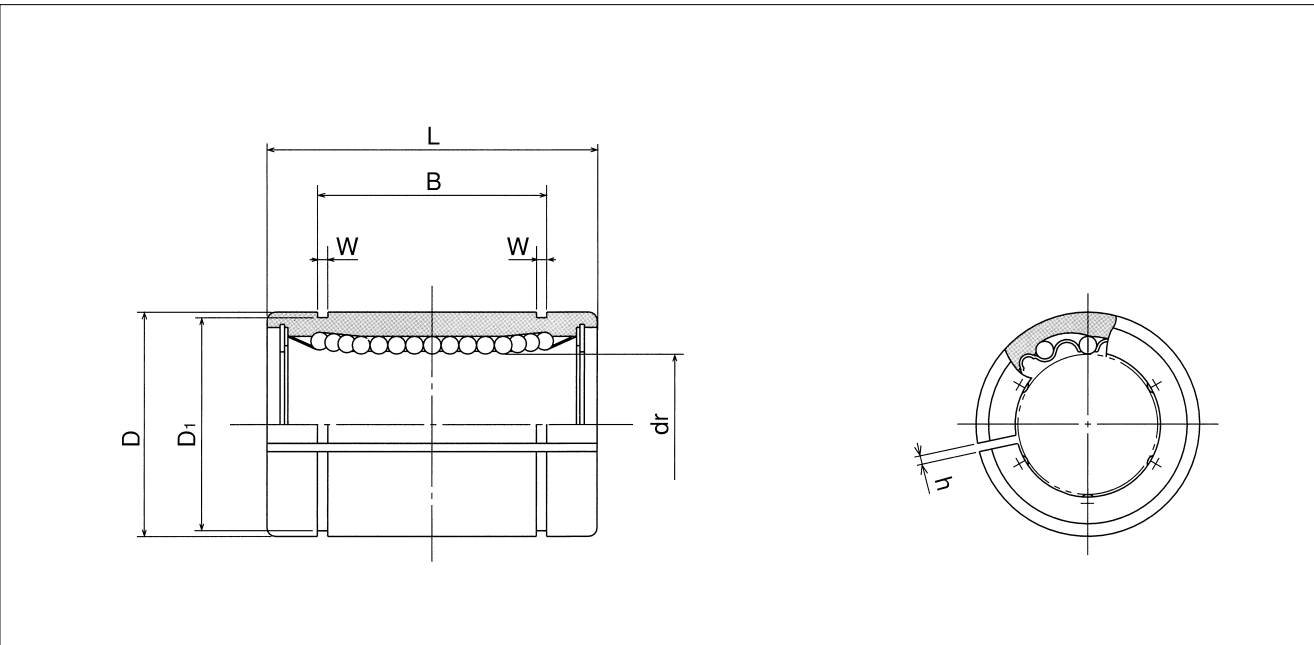
## – Clearance Adjustable Type –

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



part number					number of ball circuits	dr		D	
standard		anticorrosion				inch mm	tolerance* inch/ $\mu$ m	inch mm	tolerance* inch/ $\mu$ m
steel retainer	resin retainer	stainless retainer	resin retainer						
–	SW 4G-AJ	–	–	SWS 4G-AJ	4	.2500 6.350		.5000 12.700	$^{0}_{-11}$ $^{-0.00045}_{0}$
–	SW 6G-AJ	–	–	SWS 6G-AJ	4	.3750 9.525	$^{0}_{-9}$ – .00040	.6250 15.875	$^{0}_{-13}$ – .00050
SW 8-AJ	SW 8G-AJ	SW 8GR-AJ	SWS 8-AJ	SWS 8G-AJ	4	5.000 12.700	$^{0}_{-9}$ – .00040	.8750 22.225	$^{0}_{-13}$ – .00050
SW10-AJ	SW10G-AJ	SW10GR-AJ	SWS10-AJ	SWS10G-AJ	4	.625 15.875		1.1250 28.575	
SW12-AJ	SW12G-AJ	SW12GR-AJ	SWS12-AJ	SWS12G-AJ	5	.7500 19.050	$^{0}_{-10}$ – .00040	1.2500 31.750	$^{0}_{-16}$ – .00065
SW16-AJ	SW16G-AJ	SW16GR-AJ	SWS16-AJ	SWS16G-AJ	6	1.0000 25.400	$^{0}_{-10}$ – .00040	1.5625 39.688	$^{0}_{-16}$ – .00065
SW20-AJ	SW20G-AJ	SW20GR-AJ	SWS20-AJ	SWS20G-AJ	6	1.2500 31.750	$^{0}_{-10}$ – .00040	2.0000 50.800	$^{0}_{-19}$ – .00075
SW24-AJ	SW24G-AJ	SW24GR-AJ	SWS24-AJ	SWS24G-AJ	6	1.5000 38.100	$^{0}_{-12}$ – .00050	2.3750 60.325	$^{0}_{-19}$ – .00075
SW32-AJ	SW32G-AJ	SW32GR-AJ	SWS32-AJ	SWS32G-AJ	6	2.0000 50.800	$^{0}_{-12}$ – .00050	3.0000 76.200	$^{0}_{-19}$ – .00075
SW40-AJ	–	–	–	–	6	2.5000 63.500	$^{0}_{-15}$ – .00060	3.7500 95.250	$^{0}_{-22}$ – .00090
SW48-AJ	–	–	–	–	6	3.0000 76.200	$^{0}_{-15}$ – .00060	4.5000 114.300	$^{0}_{-22}$ – .00090
SW64-AJ	–	–	–	–	6	4.0000 101.600	$^{0}_{-20}$ – .00080	6.0000 152.400	$^{0}_{-25}$ – .00100

\* Accuracy is measured prior to machining clearance slot.



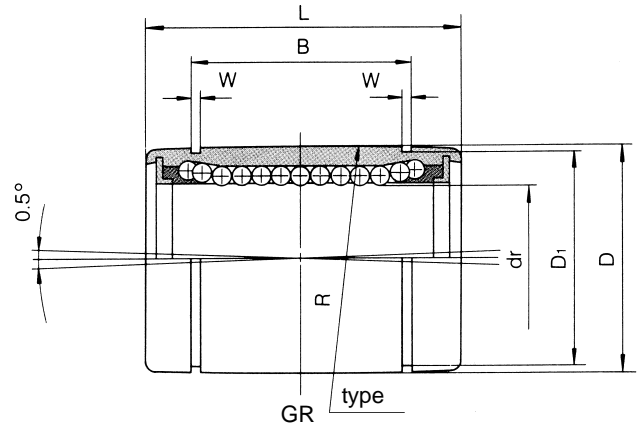
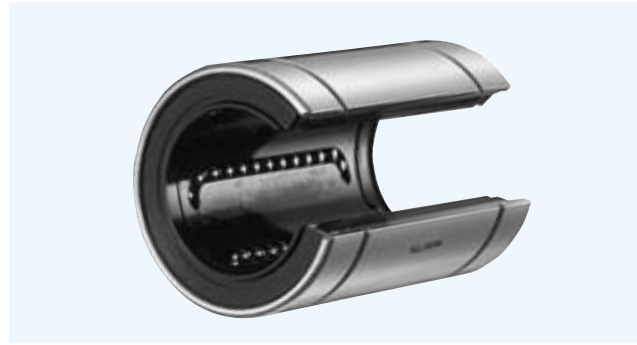
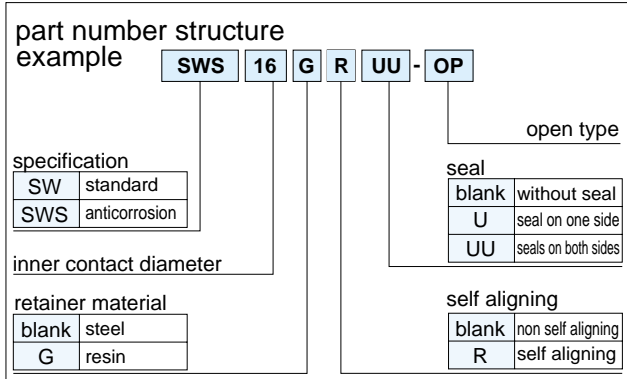
major dimensions							eccentricity	Radial clearance (Max)	basic load rating		mass	shaft diameter
inch	L tolerance	inch	B tolerance	W	D <sub>1</sub>	h			dynamic C	static Co		
mm	inch/mm	mm	inch/mm	mm	mm	mm	μm	inch/μm	N	N	g	mm
.7500 19.050	0	.5100 12.98	0	.0390 0.992	.4687 11.906	.04 1	.0005	-.0001	206	265	7.5	1/4 6.350
.8750 22.225		.6358 12.15		.0390 0.992	.5880 14.935	.04 1	12	-3	225	314	13.5	3/8 9.525
1.2500 31.750	-0.008	.9625 24.46	-0.008	.0459 1.168	.8209 20.853	.06 1.5	.0005	-.0001	510	784	41	1/2 12.700
1.5000 38.100		1.1039 28.04		.0559 1.422	1.0590 26.899	.06 1.5	12	-4	774	1,180	83	5/8 15.875
1.6250 41.275	-0.2	1.1657 29.61	-0.2	.0559 1.422	1.1760 29.870	.06 1.5	.0006	-.0002	862	1,370	102	3/4 19.050
2.2500 57.150		1.7547 44.57		.0679 1.727	1.4687 37.306	.06 1.5	15	-6	980	1,570	218	1 25.400
2.6250 66.675	0	2.0047 50.92	0	.0679 1.727	1.8859 47.904	.10 2.5	.0008	-.0003	1,570	2,740	455	1-1/4 31.750
3.0000 76.200		2.4118 61.26		.0859 2.184	2.2389 56.870	.12 3	20	-8	2,180	4,020	710	1-1/2 38.100
4.0000 101.600	-0.3	3.1917 81.07	-0.3	.1029 2.616	2.8379 72.085	.12 3	.0010	-.0005	3,820	7,940	1,290	2 50.800
5.0000 127.000		3.9760 100.99		.1200 3.048	3.5519 90.220	.12 3		25	-13	4,700	10,000	2,560
6.0000 152.400	0	4.726 120.04	0	.1200 3.048	4.3100 109.474	.12 3	.0012	-.0008	7,350	16,000	4,350	3 76.200
8.0000 203.200		6.258 158.95		.1389 3.530	5.745 145.923	.12 3		30	-20	14,100	34,800	10,150

1N ≅ 0.225lbs 1kg ≅ 2.205lbs

# SW-OP TYPE

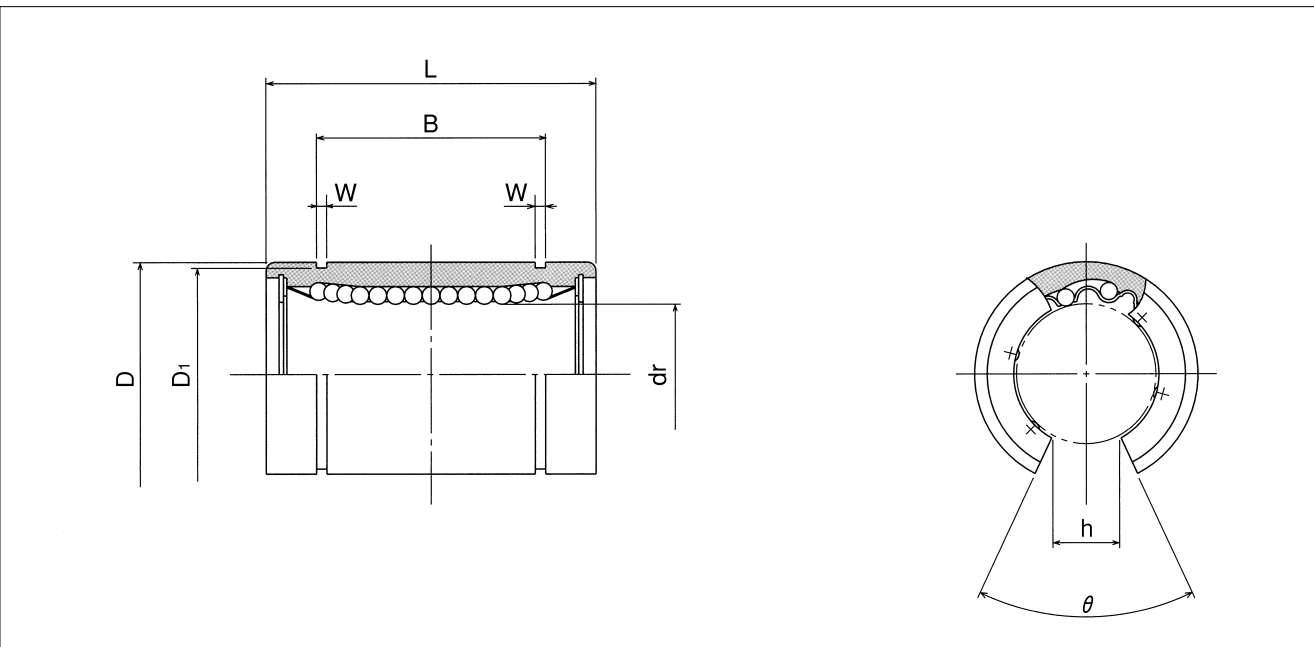
## — Open Type —

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



part number					number of ball circuits	dr		D	
standard		anticorrosion		inch mm		tolerance inch/ $\mu$ m	inch mm	tolerance inch/ $\mu$ m	
steel retainer	resin retainer	stainless retainer	resin retainer						
SW 8-OP	SW 8G-OP	SW 8GR-OP	SWS 8-OP	SWS 8G-OP	3	.5000 12.700	0 -.00040	.8750 22.225	0 -.00050
SW10-OP	SW10G-OP	SW10GR-OP	SWS10-OP	SWS10G-OP	3	.625 15.875	0 - 9	1.1250 28.575	0 - 13
SW12-OP	SW12G-OP	SW12GR-OP	SWS12-OP	SWS12G-OP	4	.7500 19.050	0 -.00040	1.2500 31.750	0 -.00065
SW16-OP	SW16G-OP	SW16GR-OP	SWS16-OP	SWS16G-OP	5	1.0000 25.400	0 -10	1.5625 39.688	0 - 16
SW20-OP	SW20G-OP	SW20GR-OP	SWS20-OP	SWS20G-OP	5	1.2500 31.750	0 -.00050	2.0000 50.800	0 -.00075
SW24-OP	SW24G-OP	SW24GR-OP	SWS24-OP	SWS24G-OP	5	1.5000 38.100	0 -12	2.3750 60.325	0 - 19
SW32-OP	SW32G-OP	SW32GR-OP	SWS32-OP	SWS32G-OP	5	2.0000 50.800	0 -15	3.0000 76.200	0 - 22
SW40-OP	-	-	-	-	5	2.5000 63.500	0 -.00060	3.7500 95.250	0 - 22
SW48-OP	-	-	-	-	5	3.0000 76.200	0 -15	4.50000 114.300	0 - 22
SW64-OP	-	-	-	-	5	4.0000 101.600	0 -.00080 -20	6.0000 152.400	0 -.00100 -25

\* Accuracy is measured prior to machining open slot.



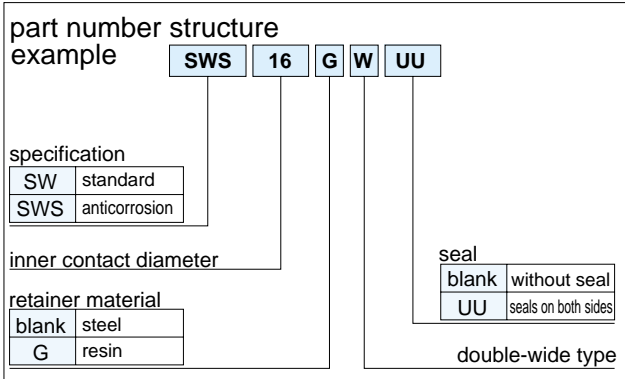
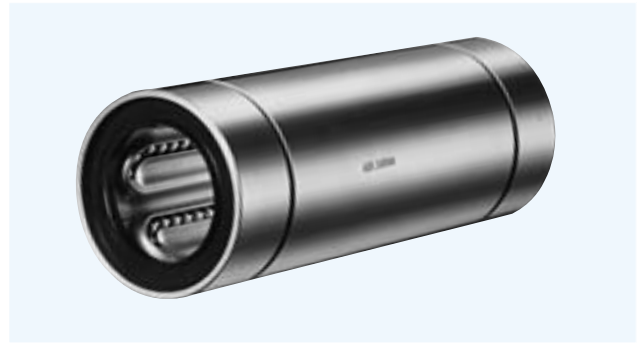
major dimensions								eccentricity*	Radial clearance (Max)	basic load rating		mass	shaft diameter	
L		B		W	D <sub>1</sub>	h	θ			dynamic C	static Co			N
inch	tolerance	inch	tolerance	inch	inch	inch		inch	inch/μm	C	Co	g	inch	mm
mm	inch/mm	mm	inch/mm	mm	mm	mm		μm	inch/μm	N	N		mm	mm
1.2500 31.750	0	.9625 24.46	0	.0459 1.168	.8209 20.853	.34 7.9375	80°	.0005 12	-.0001 -4	510	784	32	1/2 12.700	
1.5000 38.100	-.008	1.1039 28.04	-.008	.0559 1.422	1.0590 26.899	.375 9.5250	80°			774	1,180	64	5/8 15.875	
1.6250 41.275	0	1.1657 29.61	0	.0559 1.422	1.1760 29.870	.4375 11.1125	60°	.0006 15	-.0002 -6	862	1,370	86	3/4 19.050	
2.2500 57.150	-.012	1.7547 44.57	-.012	.0679 1.727	1.4687 37.306	.5625 14.2875	50°			980	1,570	190	1 25.400	
2.6250 66.675	0	2.0047 50.92	0	.0679 1.727	1.8859 47.904	.625 15.875	50°	.0008 20	-.0003 -8	1,570	2,740	390	1-1/4 31.750	
3.0000 76.200	0	2.4118 61.26	0	0.859 2.184	2.2389 56.870	.75 19.05	50°			2,180	4,020	610	1-1/2 38.100	
4.0000 101.600	-.03	3.1917 81.07	-.03	.1029 2.616	2.8379 72.085	1.0 25.40	50°			3,820	7,940	1,120	2 50.800	
5.0000 127.000	0	3.9760 100.99	0	.1200 3.048	3.5519 90.220	1.25 31.75	50°	.0010 25	-.0005 -13	4,700	10,000	2,230	2-1/2 63.500	
6.0000 152.400	-.016	4.726 120.04	-.016	.1200 3.048	4.3100 109.474	1.5 38.10	50°			7,350	16,000	3,750	3 76.200	
8.0000 203.200	0 -.4	6.258 158.95	0 -.4	.1389 3.530	5.745 145.923	2.0 50.8	50°	.0012 30	-.0008 -20	14,100	34,800	8,740	4 101.60	

1N ≅ 0.225lbs 1kg ≅ 2.205lbs

# SW-W TYPE

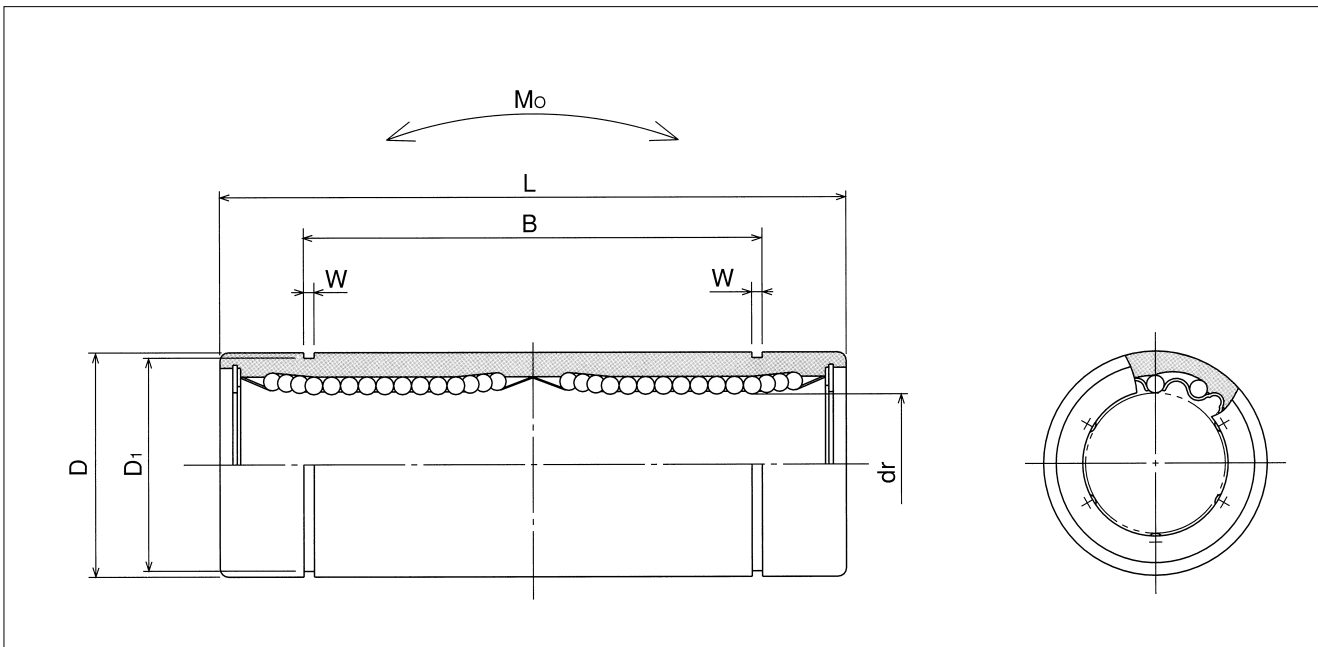
## — Double-Wide Type —

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



part number				number of ball circuits	dr				
standard		anticorrosion			dr		D		
steel retainer	resin retainer	stainless retainer	resin retainer		inch mm	tolerance inch/ $\mu$ m	inch mm	tolerance inch/ $\mu$ m	
<b>SW 4W</b>	<b>SW 4GW</b>	<b>SWS 4W</b>	<b>SWS 4GW</b>	3*	.2500 6.350	- .00040 0 -10	.5000 12.700	- .00050 0 -13	
<b>SW 6W</b>	<b>SW 6GW</b>	<b>SWS 6W</b>	<b>SWS 6GW</b>	4	.3750 9.525		.6250 15.875	- .00065 0 -16	
<b>SW 8W</b>	<b>SW 8GW</b>	<b>SWS 8W</b>	<b>SWS 8GW</b>	4	.5000 12.700		.8750 22.225		
<b>SW10W</b>	<b>SW10GW</b>	<b>SWS10W</b>	<b>SWS10GW</b>	4	.6250 15.875		1.1250 28.575		
<b>SW12W</b>	<b>SW12GW</b>	<b>SWS12W</b>	<b>SWS12GW</b>	5	.7500 19.050		- .00050 0	1.2500 31.750	- .00075 0
<b>SW16W</b>	<b>SW16GW</b>	<b>SWS16W</b>	<b>SWS16GW</b>	6	1.0000 25.400		0 -12	1.5625 39.688	0 -19
<b>SW20W</b>	<b>SW20GW</b>	<b>SWS20W</b>	<b>SWS20GW</b>	6	1.2500 31.750		0 - .00060 0 -15	2.0000 50.800	- .00090 0
<b>SW24W</b>	<b>SW24GW</b>	<b>SWS24W</b>	<b>SWS24GW</b>	6	1.5000 38.100			2.3750 60.325	0 -22
<b>SW32W</b>	<b>SW32GW</b>	<b>SWS32W</b>	<b>SWS32GW</b>	6	2.0000 50.800			3.0000 76.200	- .00100 0 -25

\* 4 rows for resin retainer type.



major dimensions						eccentricity	basic load rating		allowable static moment	mass	shaft diameter
inch	L	B		W	D <sub>1</sub>		dynamic	static			
mm	tolerance	inch	tolerance	inch	inch	C	C <sub>0</sub>	M <sub>0</sub>	g	inch	
mm	inch/mm	mm	inch/mm	mm	mm	N	N	N·m		mm	
1.3750 34.925	0 -.012	1.0220 25.959	0 -.012	.0390 0.992	.4687 11.906	.0006	323	530	2.0	17.5	1/4 6.350
1.5938 40.481		1.2716 32.298		.0390 0.992	.5880 14.935		353	630			
2.3750 60.325	0 -.012	1.9250 48.895	0 -.012	.0459 1.168	.8209 20.853	15	813	1,570	11.5	80	1/2 12.700
2.8125 71.438		2.2079 56.080		.0559 1.422	1.0590 26.899		1,230	2,350			
3.0937 78.581	0 -.016	2.3314 59.218	0 -.016	.0559 1.422	1.1760 29.870	.0008	1,370	2,740	26.5	195	3/4 19.050
4.2813 108.744		3.5094 89.139		.0679 1.727	1.4687 37.306		1,570	3,140			
5.0000 127.000	0 -.016	4.0094 101.839	0 -.016	.0679 1.727	1.8859 47.904	.0010	2,500	5,490	84.8	820	1-1/4 31.750
5.6875 144.463		4.8236 122.519		.0859 2.184	2.2389 56.870		3,430	8,040			
7.7500 196.850	0 -.04	6.3834 162.138	0 -.04	.1029 2.616	2.8379 72.085	.0012 30	6,080	15,900	399	2,350	2 50.800

1N ≅ 0.225lbs 1N·m ≅ 0.738lb·ft