

SMF-W TYPE

– Round Flange Double-Wide Type –



part number structure

example **SMSF 25 G W UU-SK**

specification
SMF: standard
SMSF: anti-corrosion

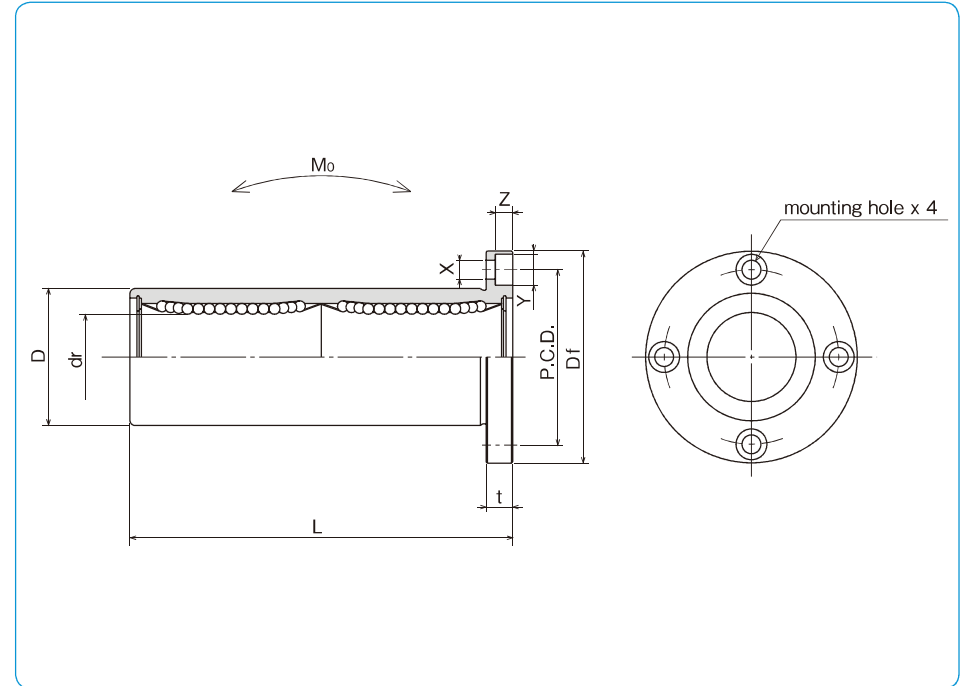
inner contact diameter (dr)

retainer material
blank: standard/steel
 anti-corrosion/stainless steel
G: resin

outer cylinder surface treatment
blank: no surface treatment
SK: electroless nickel plating
LF: low temperature black chrome treatment with fluoride coating
SB: black oxide (not available on anti-corrosion type)
SC: industrial chrome plating

seal
blank: without seal
UU: seals on both sides

double-wide type



part number				number of ball circuits	dr		major dimensions		
standard steel retainer	resin retainer	anti-corrosion stainless retainer	resin retainer		mm	tolerance μm	D mm	tolerance μm	L ± 0.3 mm
SMF 6W	SMF 6GW	SMSF 6W	SMSF 6GW	4	6	0	12	0	35
SMF 8W	SMF 8GW	SMSF 8W	SMSF 8GW	4	8		15	-13	45
SMF 10W	SMF 10GW	SMSF 10W	SMSF 10GW	4	10		19	0	55
SMF 12W	SMF 12GW	SMSF 12W	SMSF 12GW	4	12		21	0	57
SMF 13W	SMF 13GW	SMSF 13W	SMSF 13GW	4	13		23	-16	61
SMF 16W	SMF 16GW	SMSF 16W	SMSF 16GW	4	16		28		70
SMF 20W	SMF 20GW	SMSF 20W	SMSF 20GW	5	20	-12	32	0	80
SMF 25W	SMF 25GW	SMSF 25W	SMSF 25GW	6	25		40	-19	112
SMF 30W	SMF 30GW	SMSF 30W	SMSF 30GW	6	30		45	0	123
SMF 35W	SMF 35GW	SMSF 35W	SMSF 35GW	6	35		52	0	135
SMF 40W	SMF 40GW	SMSF 40W	SMSF 40GW	6	40		60	-22	151
SMF 50W	SMF 50GW	SMSF 50W	SMSF 50GW	6	50		80		192
SMF 60W	SMF 60GW	SMSF 60W	SMSF 60GW	6	60	0/-20	90	0/-25	209

Df mm	t mm	flange P.C.D. mm	X × Y × Z mm	eccentricity μm	perpendicularity μm	basic load rating		allowable static moment Mo N · m	mass g	shaft diameter mm		
						dynamic C N	static Co N					
28	5	20	3.5 × 6 × 3.1	15	15	323	530	2.18	31	6		
32	5	24	3.5 × 6 × 3.1			431	784	4.31	51	8		
40	6	29	4.5 × 7.5 × 4.1			588	1,100	7.24	98	10		
42	6	32	4.5 × 7.5 × 4.1			813	1,570	10.9	110	12		
43	6	33	4.5 × 7.5 × 4.1			813	1,570	11.6	130	13		
48	6	38	4.5 × 7.5 × 4.1			1,230	2,350	19.7	190	16		
54	8	43	5.5 × 9 × 5.1	20	20	1,400	2,740	26.8	260	20		
62	8	51	5.5 × 9 × 5.1			1,560	3,140	43.4	540	25		
74	10	60	6.6 × 11 × 6.1			2,490	5,490	82.8	680	30		
82	10	67	6.6 × 11 × 6.1			2,650	6,270	110	1,020	35		
96	13	78	9 × 14 × 8.1			25	25	3,430	8,040	147	1,570	40
116	13	98	9 × 14 × 8.1					6,080	15,900	397	3,600	50
134	18	112	11 × 17 × 11.1	30	30			7,550	20,000	530	4,500	60

1N ≒ 0.102kgf 1N · m ≒ 0.102kgf · m

KBF-W TYPE (Euro Standard)

– Round Flange Double-Wide Type –



part number structure

example **KBSF 25 G W UU-SK**

specification
KBF: standard
KBSF: anti-corrosion

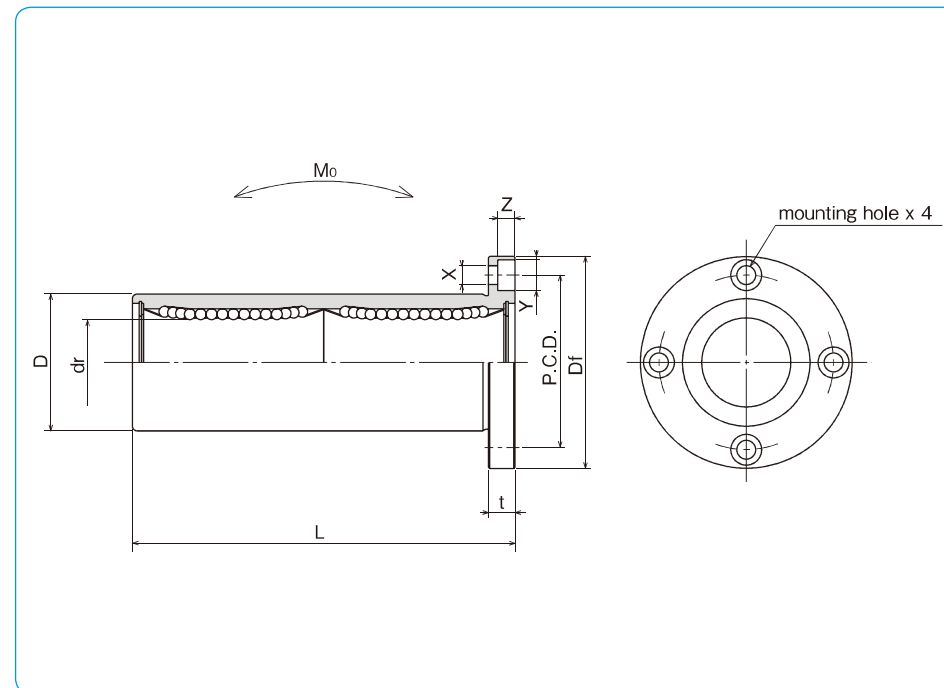
inner contact diameter (dr)

retainer material
blank: standard/steel
 anti-corrosion/stainless steel
G: resin

outer cylinder surface treatment
blank: no surface treatment
SK: electroless nickel plating
LF: low temperature black chrome treatment with fluoride coating
SB: black oxide (not available on anti-corrosion type)
SC: industrial chrome plating

seal
blank: without seal
UU: seals on both sides

double-wide type



part number				number of ball circuits	dr		major dimensions		
standard steel retainer	resin retainer	anti-corrosion stainless retainer	resin retainer		mm	tolerance μm	D mm	tolerance μm	L ± 0.3 mm
KBF 8W	KBF 8GW	KBSF 8W	KBSF 8GW	4	8	+ 9	16	0/-13	46
KBF12W	KBF12GW	KBSF12W	KBSF12GW	4	12	- 1	22	0	61
KBF16W	KBF16GW	KBSF16W	KBSF16GW	4	16	+11	26	-16	68
KBF20W	KBF20GW	KBSF20W	KBSF20GW	5	20	- 1	32	0	80
KBF25W	KBF25GW	KBSF25W	KBSF25GW	6	25	+13	40	-19	112
KBF30W	KBF30GW	KBSF30W	KBSF30GW	6	30	- 2	47	0	123
KBF40W	KBF40GW	KBSF40W	KBSF40GW	6	40	+16	62	0	151
KBF50W	KBF50GW	KBSF50W	KBSF50GW	6	50	- 4	75	-22	192
KBF60W	KBF60GW	KBSF60W	KBSF60GW	6	60		90	0/-25	209

Df mm	t mm	flange P.C.D. mm	X x Y x Z mm	eccentricity μm	perpendicularity μm	basic load rating		allowable static moment $\text{N} \cdot \text{m}$	mass g	shaft diameter mm
						dynamic C N	static Co N			
32	5	24	3.5 x 6 x 3.1	15	15	421	804	4.3	59	8
42	6	32	4.5 x 7.5 x 4.1			813	1,570	11.7	110	12
46	6	36	4.5 x 7.5 x 4.1			921	1,780	14.2	160	16
54	8	43	5.5 x 9 x 5.1	17	17	1,370	2,740	25.0	260	20
62	8	51	5.5 x 9 x 5.1			1,570	3,140	44.0	540	25
76	10	62	6.6 x 11 x 6.1			2,500	5,490	78.9	815	30
98	13	80	9 x 14 x 8.1	20	20	3,430	8,040	147	1,805	40
112	13	94	9 x 14 x 8.1			6,080	15,900	396	2,820	50
134	18	112	11 x 17 x 11.1			7,550	20,000	487	4,920	60

1N \approx 0.102kgf 1N · m \approx 0.102kgf · m

SWF-W TYPE (Inch Standard)

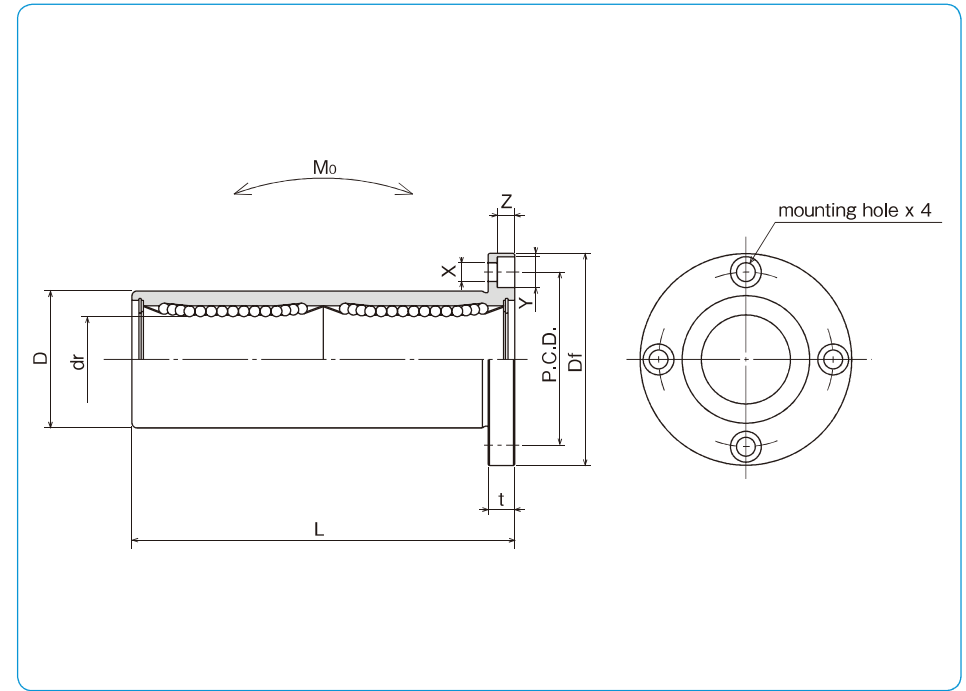
– Round Flange Double-Wide Type –



part number structure

example **SWSF 16 G W UU-SK**

specification SWF: standard SWSF: anti-corrosion	size	retainer material blank: standard/steel anti-corrosion/stainless steel G: resin	outer cylinder surface treatment blank: no surface treatment SK: electroless nickel plating LF: low temperature black chrome treatment with fluoride coating SB: black oxide (not available on anti-corrosion type) SC: industrial chrome plating	seal blank: without seal UU: seals on both sides	double-wide type
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part number				number of ball circuits	major dimensions				
standard steel retainer	anti-corrosion resin retainer	stainless steel retainer	resin retainer		dr	D		L	
inch	inch	inch	inch	inch	inch	inch	inch	inch	
SWF 4W	SWF 4GW	SWSF 4W	SWSF 4GW	4	.2500 (6.350)	.5000 (12.700)	1.3750 (34.925)		
SWF 6W	SWF 6GW	SWSF 6W	SWSF 6GW	4	.3750 (9.525)	.6250 (15.875)	1.5938 (40.481)		
SWF 8W	SWF 8GW	SWSF 8W	SWSF 8GW	4	.5000 (12.700)	.8750 (22.225)	2.3750 (60.325)		
SWF10W	SWF10GW	SWSF10W	SWSF10GW	4	.6250 (15.875)	1.1250 (28.575)	2.8125 (71.438)		
SWF12W	SWF12GW	SWSF12W	SWSF12GW	5	.7500 (19.050)	1.2500 (31.750)	3.0937 (78.581)		
SWF16W	SWF16GW	SWSF16W	SWSF16GW	6	1.0000 (25.400)	1.5625 (39.688)	4.2813 (108.744)		
SWF20W	SWF20GW	SWSF20W	SWSF20GW	6	1.2500 (31.750)	2.0000 (50.800)	5.0000 (127.000)		
SWF24W	SWF24GW	SWSF24W	SWSF24GW	6	1.5000 (38.100)	2.3750 (60.325)	5.6875 (144.463)		
SWF32W	SWF32GW	SWSF32W	SWSF32GW	6	2.0000 (50.800)	3.0000 (76.200)	7.7500 (196.850)		

Df	t	flange		eccentricity	perpendicularity	basic load rating		allowable static moment Mo	mass	shaft diameter
		P.C.D.	X x Y x Z			dynamic C	static Co			
inch	inch	inch	inch	inch	inch	N	N	N·m	g	inch
1.2500 (31.750)	.2188 (5.556)	.8750 (22.225)	.1563 x .2500 x .1406 (3.969 x 6.350 x 3.572)	.0006 (15)	.0006 (15)	323	530	2.0	40	1/4 (6.350)
1.5000 (38.100)	.2500 (6.350)	1.0625 (26.988)	.1875 x .2969 x .1719 (4.763 x 7.541 x 4.366)	.0006 (15)	.0006 (15)	353	630	2.7	60	3/8 (9.525)
1.7500 (44.450)	.2500 (6.350)	1.3125 (33.338)	.1875 x .2969 x .1719 (4.763 x 7.541 x 4.366)	.0006 (15)	.0006 (15)	813	1,570	11.5	126	1/2 (12.700)
2.0000 (50.800)	.2500 (6.350)	1.5625 (39.688)	.1875 x .2969 x .1719 (4.763 x 7.541 x 4.366)	.0006 (15)	.0006 (15)	1,230	2,350	20.0	215	5/8 (15.875)
2.1875 (55.563)	.3125 (7.938)	1.7188 (43.656)	.2188 x .3438 x .2031 (5.556 x 8.731 x 5.159)	.0008 (20)	.0008 (20)	1,370	2,740	26.5	280	3/4 (19.050)
2.5000 (63.500)	.3125 (7.938)	2.0313 (51.594)	.2188 x .3438 x .2031 (5.556 x 8.731 x 5.159)	.0008 (20)	.0008 (20)	1,570	3,140	41.2	515	1 (25.400)
3.1250 (79.375)	.3750 (9.525)	2.5625 (65.088)	.2813 x .4063 x .2656 (7.144 x 10.319 x 6.747)	.0010 (25)	.0010 (25)	2,500	5,490	84.8	1,020	1-1/4 (31.750)
3.7500 (95.250)	.5000 (12.700)	3.0625 (77.788)	.3437 x .5000 x .3281 (8.731 x 12.700 x 8.334)	.0012 (30)	.0012 (30)	3,430	8,040	143	1,630	1-1/2 (38.100)
4.3750 (111.125)	.5000 (12.700)	3.6875 (93.662)	.3437 x .5000 x .3281 (8.731 x 12.700 x 8.334)	.0012 (30)	.0012 (30)	6,080	15,900	399	2,800	2 (50.800)

1N≒0.225lbf 1N·m≒0.738lb·ft
1kg≒2.205lbs