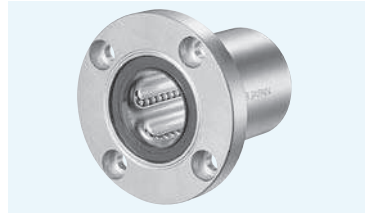


SMF TYPE

– Round Flange Type –



part number structure

example **SMSF 25 G UU-SK**

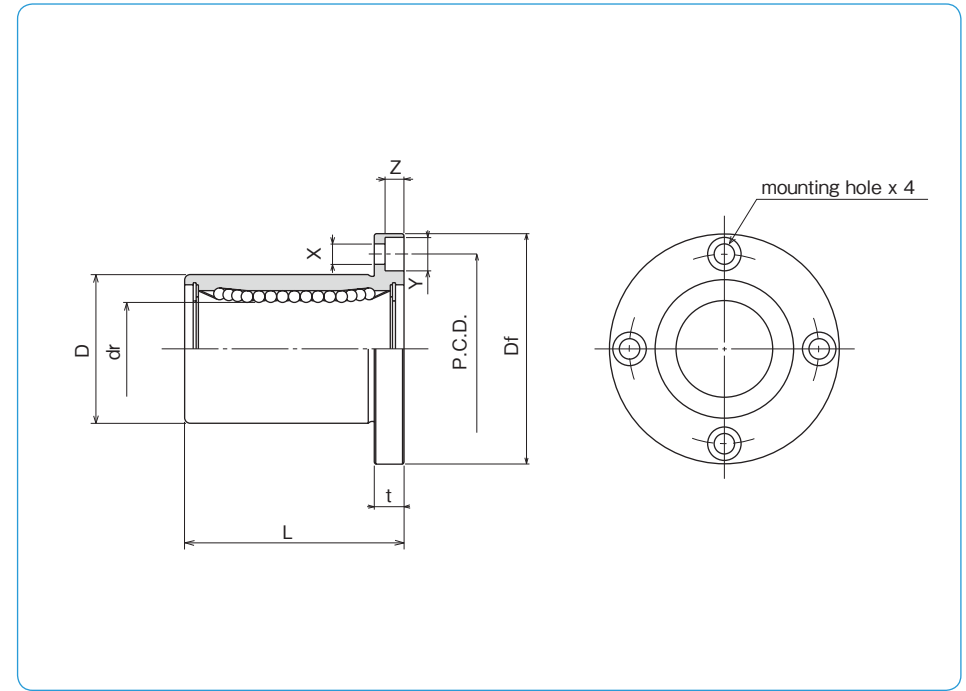
specification
SMF: standard
SMSF: anti-corrosion

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



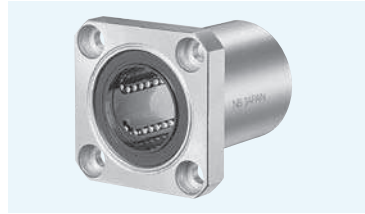
part number				number of ball circuits	major dimensions		
standard steel retainer	anti-corrosion resin retainer	stainless steel retainer	resin retainer		dr mm	D mm	L mm
SMF 6	SMF 6G	SMSF 6	SMSF 6G	4	6	12	19
SMF 8s	SMF 8sG	SMSF 8s	SMSF 8sG	4	8	15	17
SMF 8	SMF 8G	SMSF 8	SMSF 8G	4	8	15	24
SMF 10	SMF10G	SMSF10	SMSF10G	4	10	19	29
SMF 12	SMF12G	SMSF12	SMSF12G	4	12	21	30
SMF 13	SMF13G	SMSF13	SMSF13G	4	13	23	32
SMF 16	SMF16G	SMSF16	SMSF16G	4	16	28	37
SMF 20	SMF20G	SMSF20	SMSF20G	5	20	32	42
SMF 25	SMF25G	SMSF25	SMSF25G	6	25	40	59
SMF 30	SMF30G	SMSF30	SMSF30G	6	30	45	64
SMF 35	SMF35G	SMSF35	SMSF35G	6	35	52	70
SMF 40	SMF40G	SMSF40	SMSF40G	6	40	60	80
SMF 50	SMF50G	SMSF50	SMSF50G	6	50	80	100
SMF 60	SMF60G	SMSF60	SMSF60G	6	60	90	110
SMF 80	—	—	—	6	80	120	140
SMF100	—	—	—	6	100	150	175

Df mm	t mm	flange P.C.D. mm	X×Y×Z mm	eccentricity μm	perpendicularity μm	basic load rating		mass g	shaft diameter mm
						dynamic C N	static Co N		
28	5	20	3.5×6×3.1	12	12	206	265	24	6
32	5	24	3.5×6×3.1			176	216	32	8
32	5	24	3.5×6×3.1			274	392	37	8
40	6	29	4.5×7.5×4.1			372	549	72	10
42	6	32	4.5×7.5×4.1			510	784	76	12
43	6	33	4.5×7.5×4.1			510	784	88	13
48	6	38	4.5×7.5×4.1	774	1,180	120	16		
54	8	43	5.5×9×5.1	15	15	882	1,370	180	20
62	8	51	5.5×9×5.1			980	1,570	340	25
74	10	60	6.6×11×6.1			1,570	2,740	470	30
82	10	67	6.6×11×6.1			1,670	3,140	650	35
96	13	78	9×14×8.1	20	20	2,160	4,020	1,060	40
116	13	98	9×14×8.1			3,820	7,940	2,200	50
134	18	112	11×17×11.1			4,700	10,000	3,000	60
164	18	142	11×17×11.1	25	25	7,350	16,000	5,800	80
200	20	175	14×20×13.1			14,100	34,800	10,600	100

1N=0.102kgf

SMK TYPE

– Square Flange Type –



part number structure

example **SMSK 25 G UU-SK**

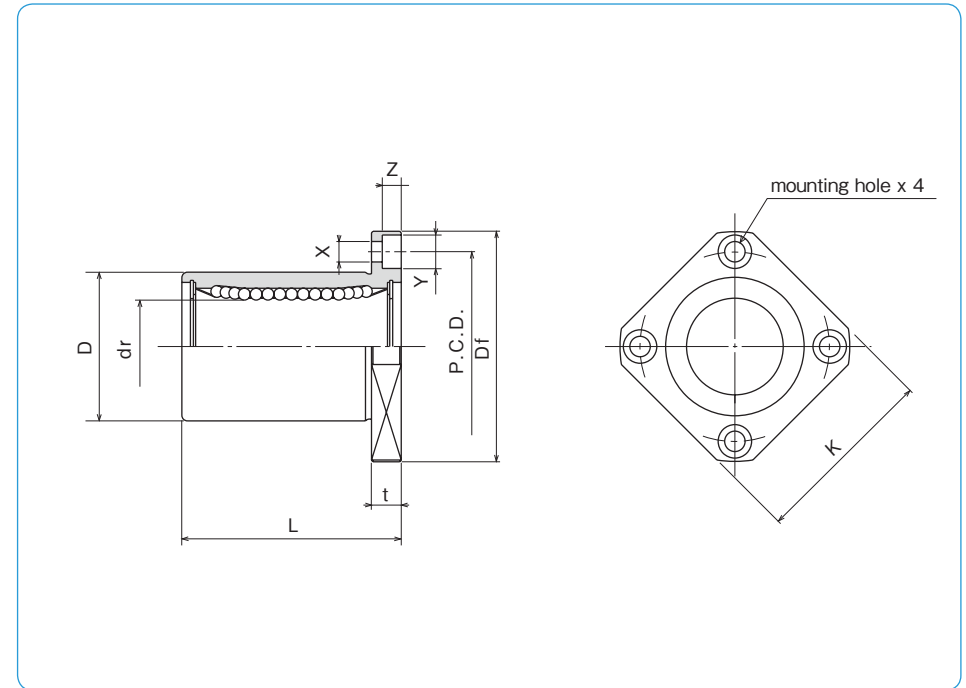
specification
SMK: standard
SMSK: anti-corrosion

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



part number				number of ball circuits	major dimensions		
standard steel retainer	anti-corrosion resin retainer	stainless steel retainer	resin retainer		dr mm	D mm	L mm
SMK 6	SMK 6G	SMSK 6	SMSK 6G	4	6	12	19
SMK 8s	SMK 8sG	SMSK 8s	SMSK 8sG	4	8	15	17
SMK 8	SMK 8G	SMSK 8	SMSK 8G	4	8	15	24
SMK 10	SMK 10G	SMSK 10	SMSK 10G	4	10	19	29
SMK 12	SMK 12G	SMSK 12	SMSK 12G	4	12	21	30
SMK 13	SMK 13G	SMSK 13	SMSK 13G	4	13	23	32
SMK 16	SMK 16G	SMSK 16	SMSK 16G	4	16	28	37
SMK 20	SMK 20G	SMSK 20	SMSK 20G	5	20	32	42
SMK 25	SMK 25G	SMSK 25	SMSK 25G	6	25	40	59
SMK 30	SMK 30G	SMSK 30	SMSK 30G	6	30	45	64
SMK 35	SMK 35G	SMSK 35	SMSK 35G	6	35	52	70
SMK 40	SMK 40G	SMSK 40	SMSK 40G	6	40	60	80
SMK 50	SMK 50G	SMSK 50	SMSK 50G	6	50	80	100
SMK 60	SMK 60G	SMSK 60	SMSK 60G	6	60	90	110
SMK 80	—	—	—	6	80	120	140
SMK 100	—	—	—	6	100	150	175

Df mm	K mm	flange			eccentricity μm	perpendicularity μm	basic load rating		mass g	shaft diameter mm
		t mm	P.C.D. mm	X×Y×Z mm			dynamic C N	static Co N		
28	22	5	20	3.5×6×3.1	12	12	206	265	18	6
32	25	5	24	3.5×6×3.1			176	216	24	8
32	25	5	24	3.5×6×3.1			274	392	29	8
40	30	6	29	4.5×7.5×4.1			372	549	52	10
42	32	6	32	4.5×7.5×4.1			510	784	57	12
43	34	6	33	4.5×7.5×4.1			510	784	72	13
48	37	6	38	4.5×7.5×4.1	774	1,180	104	16		
54	42	8	43	5.5×9×5.1	882	1,370	145	20		
62	50	8	51	5.5×9×5.1	980	1,570	300	25		
74	58	10	60	6.6×11×6.1	1,570	2,740	375	30		
82	64	10	67	6.6×11×6.1	1,670	3,140	560	35		
96	75	13	78	9×14×8.1	2,160	4,020	880	40		
116	92	13	98	9×14×8.1	3,820	7,940	2,000	50		
134	106	18	112	11×17×11.1	4,700	10,000	2,560	60		
164	136	18	142	11×17×11.1	7,350	16,000	5,300	80		
200	170	20	175	14×20×13.1	14,100	34,800	9,900	100		

1N=0.102kgf

SMT TYPE

– Two Side Cut Flange Type –



part number structure

example **SMST 25 G UU -SK**

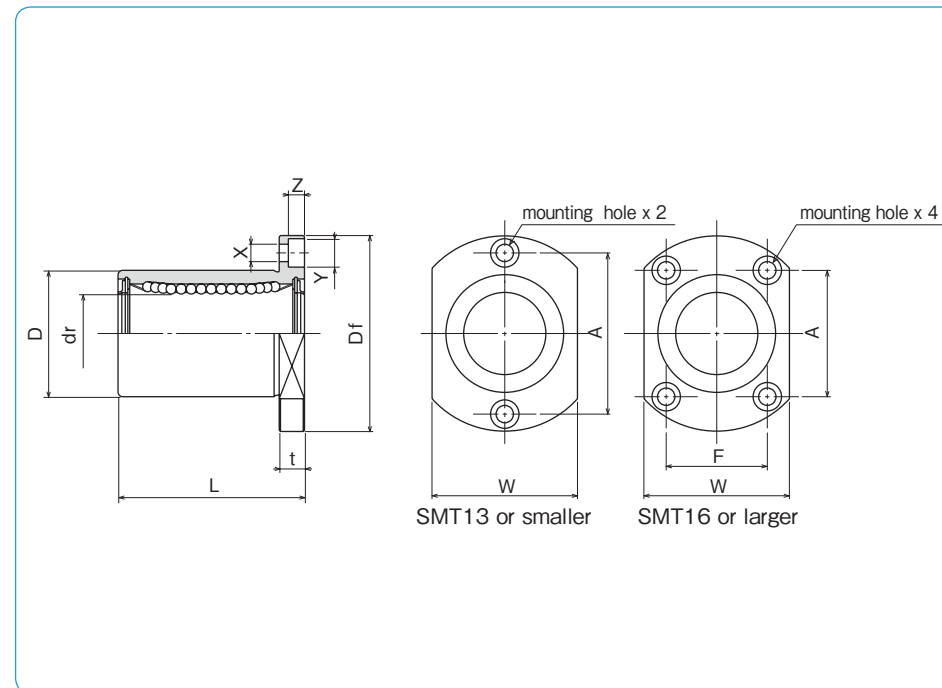
specification
SMT: standard
SMST: anti-corrosion

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

seals on both sides



part number*				number of ball circuits	dr mm	dr tolerance μm	major dimensions		
standard steel retainer	resin retainer	anti-corrosion stainless retainer resin retainer					D mm	D tolerance μm	L ±0.3 mm
SMT 6UU	SMT 6GUU	SMST 6UU	SMST 6GUU	4	6	0	12	0	19
SMT 8UU	SMT 8GUU	SMST 8UU	SMST 8GUU	4	8	-9	15	-13	24
SMT 10UU	SMT 10GUU	SMST 10UU	SMST 10GUU	4	10	0	19	0	29
SMT 12UU	SMT 12GUU	SMST 12UU	SMST 12GUU	4	12	-9	21	0	30
SMT 13UU	SMT 13GUU	SMST 13UU	SMST 13GUU	4	13	0	23	-16	32
SMT 16UU	SMT 16GUU	SMST 16UU	SMST 16GUU	4	16	-9	28	-16	37
SMT 20UU	SMT 20GUU	SMST 20UU	SMST 20GUU	5	20	0	32	0	42
SMT 25UU	SMT 25GUU	SMST 25UU	SMST 25GUU	6	25	-10	40	-19	59
SMT 30UU	SMT 30GUU	SMST 30UU	SMST 30GUU	6	30	-10	45	-19	64

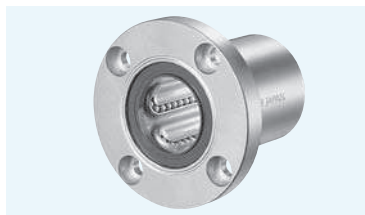
* UU type is standard.

Df mm	W mm	t mm	flange			eccentricity μm	perpendicularity μm	basic load rating		mass g	shaft diameter mm
			A mm	F mm	X×Y×Z mm			dynamic C N	static Co N		
28	18	5	20	—	3.5×6×3.1	12	12	206	265	21	6
32	21	5	24	—	3.5×6×3.1			274	392	33	8
40	25	6	29	—	4.5×7.5×4.1			372	549	64	10
42	27	6	32	—	4.5×7.5×4.1			510	784	68	12
43	29	6	33	—	4.5×7.5×4.1			510	784	81	13
48	34	6	31	22	4.5×7.5×4.1	774	1,180	112	16		
54	38	8	36	24	5.5×9×5.1	15	15	882	1,370	167	20
62	46	8	40	32	5.5×9×5.1			980	1,570	325	25
62	46	8	40	32	5.5×9×5.1			1,570	2,740	388	30
74	51	10	49	35	6.6×11×6.1			1,570	2,740	388	30

1N=0.102kgf

KBF TYPE (Euro Standard)

– Round Flange Type –



part number structure

example **KBSF 25 G UU-SK**

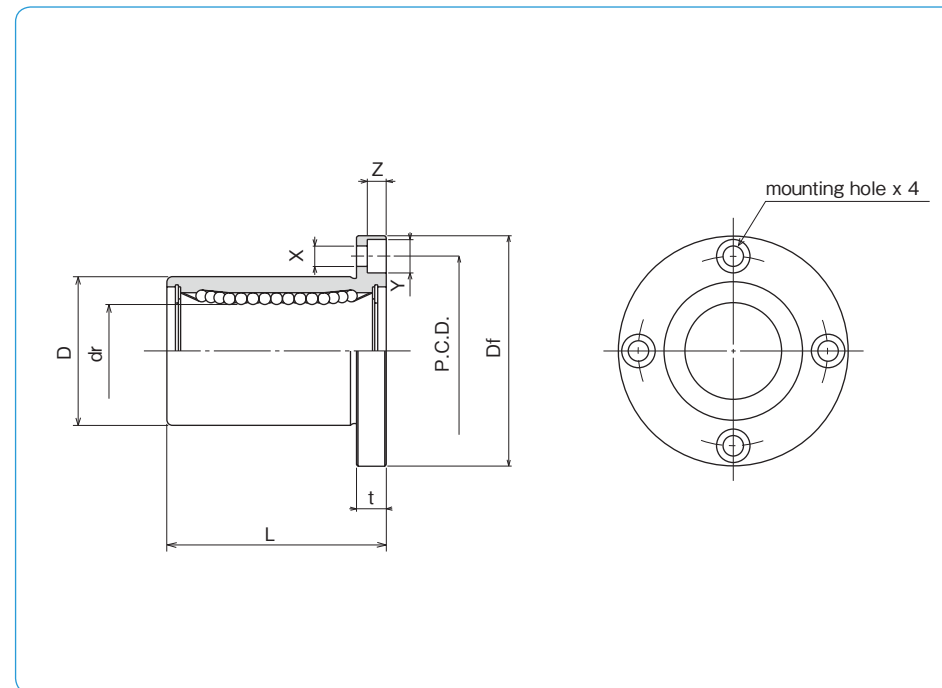
specification
KBF: standard
KBSF: anti-corrosion

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



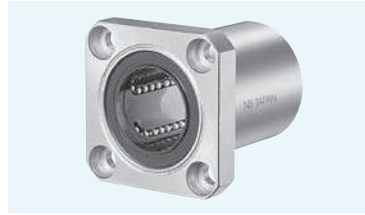
part number				number of ball circuits	dr		major dimensions		
standard steel retainer	resin retainer	anti-corrosion stainless retainer			mm	tolerance μm	D mm	tolerance μm	L ± 0.3 mm
—	KBF 5G	—	KBSF 5G	4	5	12	0	22	
KBF 8	KBF 8G	KBSF 8	KBSF 8G	4	8	16	-13	25	
KBF12	KBF12G	KBSF12	KBSF12G	4	12	22	0	32	
KBF16	KBF16G	KBSF16	KBSF16G	4	16	26	-16	36	
KBF20	KBF20G	KBSF20	KBSF20G	5	20	32	0	45	
KBF25	KBF25G	KBSF25	KBSF25G	6	25	40	-19	58	
KBF30	KBF30G	KBSF30	KBSF30G	6	30	47	0	68	
KBF40	KBF40G	KBSF40	KBSF40G	6	40	62	0	80	
KBF50	KBF50G	KBSF50	KBSF50G	6	50	75	-22	100	
KBF60	KBF60G	KBSF60	KBSF60G	6	60	90	0	125	
KBF80	—	—	—	6	80	+16/-4	120	-25	165

Df mm	t mm	flange P.C.D. mm	X × Y × Z mm	eccentricity μm	perpendicularity μm	basic load rating		mass g	shaft diameter mm
						dynamic C N	static Co N		
28	5	20	3.5 × 6 × 3.1	12	12	206	265	26	5
32	5	24	3.5 × 6 × 3.1			265	402	41	8
42	6	32	4.5 × 7.5 × 4.1			510	784	80	12
46	6	36	4.5 × 7.5 × 4.1			578	892	103	16
54	8	43	5.5 × 9 × 5.1	15	15	862	1,370	182	20
62	8	51	5.5 × 9 × 5.1			980	1,570	335	25
76	10	62	6.6 × 11 × 6.1			1,570	2,740	560	30
98	13	80	9 × 14 × 8.1	17	17	2,160	4,020	1,175	40
112	13	94	9 × 14 × 8.1			3,820	7,940	1,745	50
134	18	112	11 × 17 × 11.1	20	20	4,700	9,800	3,220	60
164	18	142	11 × 17 × 11.1			7,350	16,000	6,420	80

1N=0.102kgf

KBK TYPE (Euro Standard)

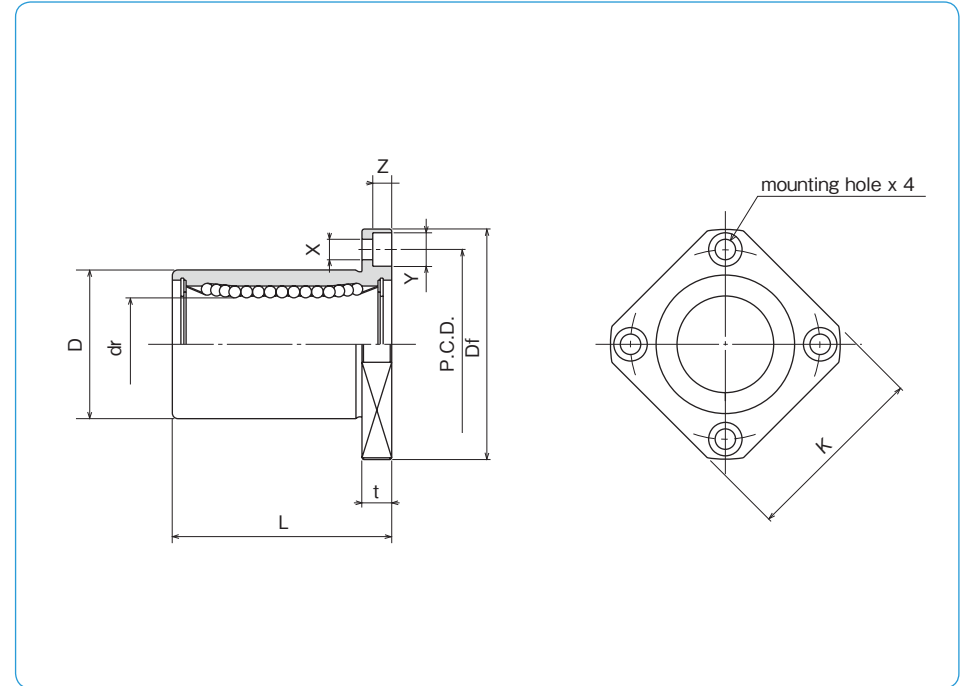
– Square Flange Type –



part number structure

example **KBSK 25 G UU-SK**

specification KBK: standard KBSK: 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
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part number				number of ball circuits	dr		major dimensions		
standard steel retainer	resin retainer	anti-corrosion			mm	tolerance μm	D mm	tolerance μm	L ± 0.3 mm
—	KBK 5G	—	KBSK 5G	4	5		12	0	22
KBK 8	KBK 8G	KBSK 8	KBSK 8G	4	8	+ 8	16	-13	25
KBK12	KBK12G	KBSK12	KBSK12G	4	12	0	22	0	32
KBK16	KBK16G	KBSK16	KBSK16G	4	16	+ 9	26	-16	36
KBK20	KBK20G	KBSK20	KBSK20G	5	20	- 1	32	0	45
KBK25	KBK25G	KBSK25	KBSK25G	6	25	+11	40	0	58
KBK30	KBK30G	KBSK30	KBSK30G	6	30	- 1	47	-19	68
KBK40	KBK40G	KBSK40	KBSK40G	6	40		62	0	80
KBK50	KBK50G	KBSK50	KBSK50G	6	50	+13	75	-22	100
KBK60	KBK60G	KBSK60	KBSK60G	6	60	- 2	90	0	125
KBK80	—	—	—	6	80	+16/-4	120	-25	165

flange					eccentricity μm	perpendicularity μm	basic load rating		mass g	shaft diameter mm
Df mm	K mm	t mm	P.C.D. mm	X×Y×Z mm			dynamic C N	static Co N		
28	22	5	20	3.5×6×3.1	12	12	206	265	20	5
32	25	5	24	3.5×6×3.1			265	402	33	8
42	32	6	32	4.5×7.5×4.1			510	784	64	12
46	35	6	36	4.5×7.5×4.1			578	892	90	16
54	42	8	43	5.5×9×5.1	15	15	862	1,370	147	20
62	50	8	51	5.5×9×5.1			980	1,570	295	25
76	60	10	62	6.6×11×6.1			1,570	2,740	465	30
98	75	13	80	9×14×8.1	17	17	2,160	4,020	975	40
112	88	13	94	9×14×8.1			3,820	7,940	1,545	50
134	106	18	112	11×17×11.1	20	20	4,700	9,800	2,780	60
164	136	18	142	11×17×11.1			7,350	16,000	5,920	80

1N=0.102kgf

KBT TYPE (Euro Standard)

– Two Side Cut Flange Type –



part number structure

example **KBST 25 G UU -SK**

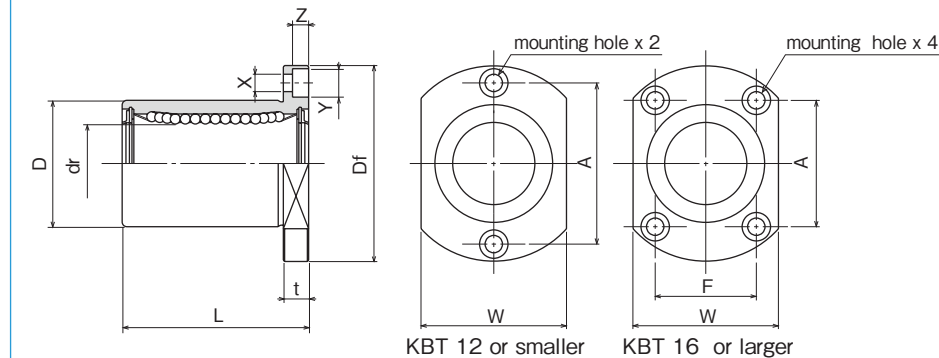
specification
KBT: standard
KBST: anti-corrosion

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

seals on both sides



part number				number of ball circuits	dr		major dimensions		
standard steel retainer	resin retainer	anti-corrosion			mm	tolerance μm	D mm	tolerance μm	L ± 0.3 mm
KBT 5 UU	KBT 5G UU	KBST 5 UU	KBST 5G UU	4	5		12	0	22
KBT 8 UU	KBT 8G UU	KBST 8 UU	KBST 8G UU	4	8	+ 8	16	-13	25
KBT12 UU	KBT12G UU	KBST12 UU	KBST12G UU	4	12	0	22	0	32
KBT16 UU	KBT16G UU	KBST16 UU	KBST16G UU	4	16	+ 9	26	-16	36
KBT20 UU	KBT20G UU	KBST20 UU	KBST20G UU	5	20	- 1	32	0	45
KBT25 UU	KBT25G UU	KBST25 UU	KBST25G UU	6	25	+11	40	-19	58
KBT30 UU	KBT30G UU	KBST30 UU	KBST30G UU	6	30	- 1	47		68

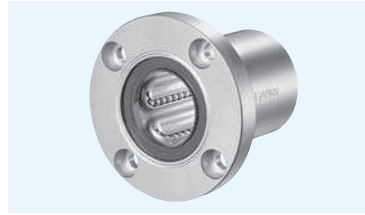
* UU type is standard.

Df mm	W mm	t mm	flange			X×Y×Z mm	eccentricity μm	perpendicularity μm	basic load rating		mass g	shaft diameter mm
			A mm	F mm	C N				Co N			
28	18	5	20	—	3.5×6×3.1	12	12	206	265	25	5	
32	22	5	24	—	3.5×6×3.1			265	402	37	8	
42	28	6	32	—	4.5×7.5×4.1			510	784	73	12	
46	32	6	28	22	4.5×7.5×4.1			578	892	90	16	
54	38	8	36	24	5.5×9×5.1			862	1,370	155	20	
62	46	8	40	32	5.5×9×5.1	15	15	980	1,570	295	25	
76	53	10	48	36	6.6×11×6.1			1,570	2,740	471	30	

1N=0.102kgf

SWF TYPE (Inch Standard)

– Round Flange Type –



part number structure

example **SWSF 16 G UU-SK**

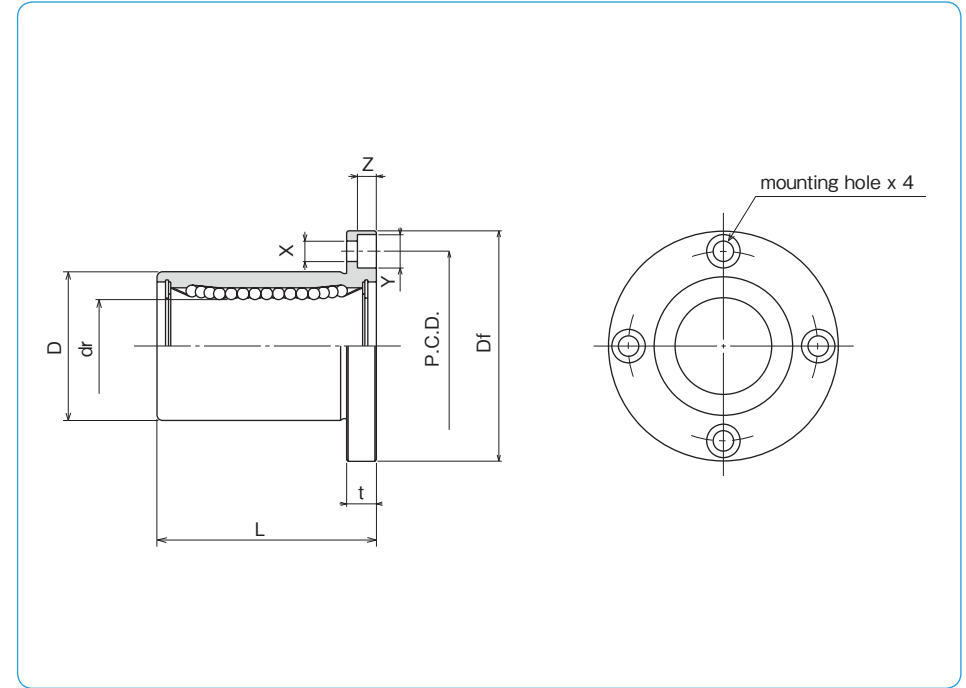
specification
SWF: standard
SWSF: anti-corrosion

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



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	
SWF 4	SWF 4G	SWSF 4	SWSF 4G	4	.2500 (6.350)	.5000 (12.700)	.7500 (19.050)
SWF 6	SWF 6G	SWSF 6	SWSF 6G	4	.3750 (9.525)	.6250 (15.875)	.8750 (22.225)
SWF 8	SWF 8G	SWSF 8	SWSF 8G	4	.5000 (12.700)	.8750 (22.225)	1.2500 (31.750)
SWF10	SWF10G	SWSF10	SWSF10G	4	.6250 (15.875)	1.1250 (28.575)	1.5000 (38.100)
SWF12	SWF12G	SWSF12	SWSF12G	5	.7500 (19.050)	1.2500 (31.750)	1.6250 (41.275)
SWF16	SWF16G	SWSF16	SWSF16G	6	1.0000 (25.400)	1.5625 (39.688)	2.2500 (57.150)
SWF20	SWF20G	SWSF20	SWSF20G	6	1.2500 (31.750)	2.0000 (50.800)	2.6250 (66.675)
SWF24	SWF24G	SWSF24	SWSF24G	6	1.5000 (38.100)	2.3750 (60.325)	3.0000 (76.200)
SWF32	SWF32G	SWSF32	SWSF32G	6	2.0000 (50.800)	3.0000 (76.200)	4.0000 (101.600)
SWF40	–	–	–	6	2.5000 (63.500)	3.7500 (95.250)	5.0000 (127.000)
SWF48	–	–	–	6	3.0000 (76.200)	4.5000 (114.300)	6.0000 (152.400)
SWF64	–	–	–	6	4.0000 (101.600)	6.0000 (152.400)	8.0000 (203.200)

Df	t	flange		eccentricity	perpendicularity	basic load rating		mass	shaft diameter
		P.C.D.	X × Y × Z			dynamic C	static Co		
inch/(mm)	inch/(mm)	inch/(mm)	inch/(mm)	inch (μm)	inch (μm)	N	N	g	inch (mm)
1.2500 (31.750)	0.219 (5.556)	.8750 (22.225)	.1560 × 2.500 × .1410 (3.969 × 6.350 × 3.572)	.0005 (12)	.0005 (12)	206	265	32	1/4 (6.350)
1.5000 (38.100)	.2500 (6.350)	1.0620 (26.988)	.1875 × .2970 × .1720 (4.763 × 7.541 × 4.366)	.0005 (12)	.0005 (12)	225	314	47	3/8 (9.525)
1.7500 (44.450)	.2500 (6.350)	1.312 (33.338)	.1875 × .2970 × .1720 (4.763 × 7.541 × 4.366)	.0005 (12)	.0005 (12)	510	784	88	1/2 (12.700)
2.0000 (50.800)	.2500 (6.350)	1.5620 (39.688)	.1875 × .2970 × .1720 (4.763 × 7.541 × 4.366)	.0005 (12)	.0005 (12)	774	1,180	140	5/8 (15.875)
2.1875 (55.563)	.3125 (7.938)	1.7180 (43.660)	.2187 × .3440 × .2030 (5.556 × 8.731 × 5.159)	.0006 (15)	.0006 (15)	862	1,370	190	3/4 (19.050)
2.5000 (63.500)	.3125 (7.938)	2.0310 (51.594)	.2187 × .3440 × .2030 (5.556 × 8.731 × 5.159)	.0006 (15)	.0006 (15)	980	1,570	325	1 (25.400)
3.1250 (79.375)	.3750 (9.525)	2.5625 (65.088)	.2812 × .4060 × .2656 (7.144 × 10.319 × 6.747)	.0008 (20)	.0008 (20)	1,570	2,740	665	1-1/4 (31.750)
3.7500 (95.250)	.5000 (12.700)	3.0625 (77.788)	.3440 × .5000 × .3280 (8.731 × 12.700 × 8.334)	.0008 (20)	.0008 (20)	2,180	4,020	1,100	1-1/2 (38.100)
4.3750 (111.125)	.5000 (12.700)	3.6875 (93.662)	.3440 × .5000 × .3280 (8.731 × 12.700 × 8.334)	.0010 (25)	.0010 (25)	3,820	7,940	1,760	2 (50.800)
5.3750 (136.525)	.7500 (19.050)	4.5625 (115.887)	.4062 × .6250 × .3750 (10.319 × 15.875 × 9.525)	.0010 (25)	.0010 (25)	4,700	10,000	3,570	2-1/2 (63.500)
6.1250 (155.575)	.7500 (19.050)	5.3125 (134.937)	.4062 × .6250 × .3750 (10.319 × 15.875 × 9.525)	.0010 (25)	.0010 (25)	7,350	16,000	5,600	3 (76.200)
8.0000 (203.200)	.8750 (22.225)	7.0000 (177.800)	.5000 × .7125 × .5000 (12.700 × 18.097 × 12.700)	.0012 (30)	.0012 (30)	14,100	34,800	12,000	4 (101.600)

1N ≅ 0.225lbf 1kg ≅ 2.205lbf

SWK TYPE (Inch Standard)

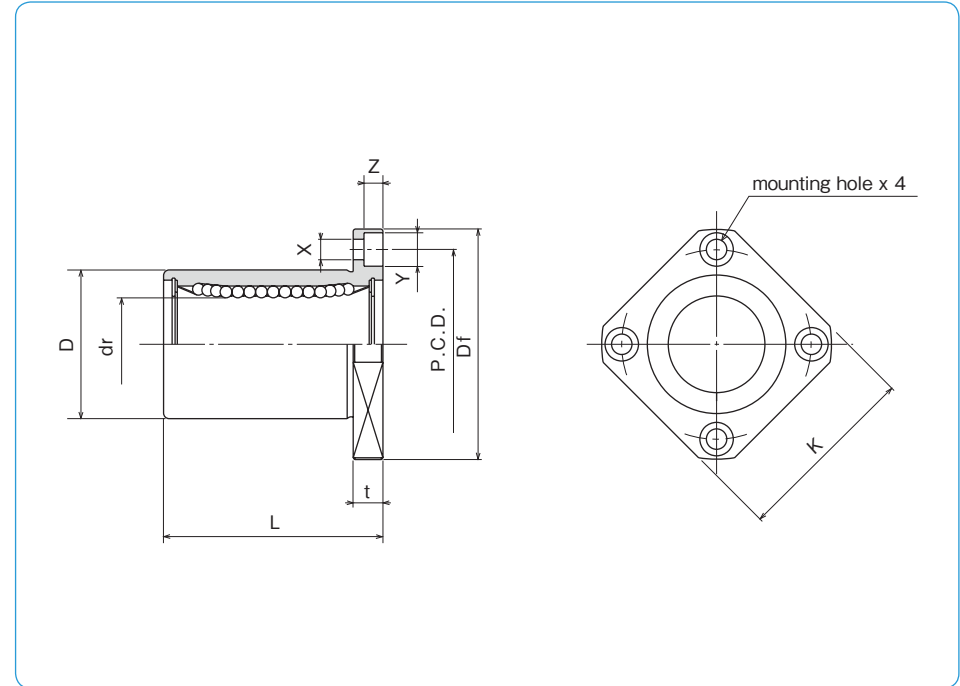
– Square Flange Type –



part number structure

example **SWSK 16 G UU-SK**

specification SWK : standard SWSK : 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
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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 inch (mm) tolerance inch/(μm)	D inch (mm) tolerance inch/(μm)	L ±.012 (±0.3) inch/(mm)
SWK 4	SWK 4G	SWSK 4	SWSK 4G	4	.2500 (6.350)	.5000 (12.700)	.7500 (19.050)
SWK 6	SWK 6G	SWSK 6	SWSK 6G	4	.3750 (9.525)	.6250 (15.875)	.8750 (22.225)
SWK 8	SWK 8G	SWSK 8	SWSK 8G	4	.5000 (12.700)	.8750 (22.225)	1.2500 (31.750)
SWK10	SWK10G	SWSK10	SWSK10G	4	.6250 (15.875)	1.1250 (28.575)	1.5000 (38.100)
SWK12	SWK12G	SWSK12	SWSK12G	5	.7500 (19.050)	1.2500 (31.750)	1.6250 (41.275)
SWK16	SWK16G	SWSK16	SWSK16G	6	1.0000 (25.400)	1.5625 (39.688)	2.2500 (57.150)
SWK20	SWK20G	SWSK20	SWSK20G	6	1.2500 (31.750)	2.0000 (50.800)	2.6250 (66.675)
SWK24	SWK24G	SWSK24	SWSK24G	6	1.5000 (38.100)	2.3750 (60.325)	3.0000 (76.200)
SWK32	SWK32G	SWSK32	SWSK32G	6	2.0000 (50.800)	3.0000 (76.200)	4.0000 (101.600)
SWK40	–	–	–	6	2.5000 (63.500)	3.7500 (95.250)	5.0000 (127.000)
SWK48	–	–	–	6	3.0000 (76.200)	4.5000 (114.300)	6.0000 (152.400)
SWK64	–	–	–	6	4.0000 (101.600)	6.0000 (152.400)	8.0000 (203.200)

flange					eccentricity inch (μm)	perpendicularity inch (μm)	basic load rating		mass g	shaft diameter inch (mm)
Df inch (mm)	K inch (mm)	t inch (mm)	P.C.D. inch (mm)	X × Y × Z inch (mm)			dynamic C N	static Co N		
1.2500 (31.750)	1.0000 (25.400)	0.219 (5.556)	.8750 (22.225)	.1560 x .2500 x .1410 (3.969 x 6.350 x 3.572)	.0005 (12)	.0005 (12)	206	265	25 (6.350)	
1.5000 (38.100)	1.2500 (31.750)	.2500 (6.350)	1.0620 (26.988)	.1875 x .2970 x .1720 (4.763 x 7.541 x 4.366)			225	314	32 (9.525)	
1.7500 (44.450)	1.3750 (34.925)	.2500 (6.350)	1.312 (33.338)	.1875 x .2970 x .1720 (4.763 x 7.541 x 4.366)			510	784	68 (12.700)	
2.0000 (50.800)	1.5000 (38.100)	.2500 (6.350)	1.5620 (39.688)	.1875 x .2970 x .1720 (4.763 x 7.541 x 4.366)			774	1,180	124 (15.875)	
2.1875 (55.563)	1.6875 (42.863)	.3125 (7.938)	1.7180 (43.660)	.2187 x .3440 x .2030 (5.556 x 8.731 x 5.159)	.0006 (15)	.0006 (15)	862	1,370	150 (19.050)	
2.5000 (63.500)	2.0000 (50.800)	.3125 (7.938)	2.0310 (51.594)	.2187 x .3440 x .2030 (5.556 x 8.731 x 5.159)			980	1,570	280 (25.400)	
3.1250 (79.375)	2.5000 (63.500)	.3750 (9.525)	2.5625 (65.088)	.2812 x .4060 x .2656 (7.144 x 10.319 x 6.747)			1,570	2,740	580 (31.750)	
3.7500 (95.250)	3.0000 (76.200)	.5000 (12.700)	3.0625 (77.788)	.3440 x .5000 x .3280 (8.731 x 12.700 x 8.334)			2,180	4,020	930 (38.100)	
4.3750 (111.125)	3.5000 (88.900)	.5000 (12.700)	3.6875 (93.662)	.3440 x .5000 x .3280 (8.731 x 12.700 x 8.334)	.0008 (20)	.0008 (20)	3,820	7,940	1,580 (50.800)	
5.3750 (136.525)	4.3750 (111.125)	.7500 (19.050)	4.5625 (115.887)	.4062 x .6250 x .3750 (10.319 x 15.875 x 9.525)			4,700	10,000	3,200 (63.500)	
6.1250 (155.575)	5.0000 (127.000)	.7500 (19.050)	5.3125 (134.937)	.4062 x .6250 x .3750 (10.319 x 15.875 x 9.525)			7,350	16,000	5,000 (76.200)	
8.0000 (203.200)	6.7500 (171.450)	.8750 (22.225)	7.0000 (177.800)	.5000 x .7125 x .5000 (12.700 x 18.097 x 12.700)			14,100	34,800	11,300 (101.600)	

1N≅0.225lbf 1kg≅2.205lbf

SWT TYPE (Inch Standard)

– Two Side Cut Flange Type –



part number structure

example **SWST 12 G UU -SK**

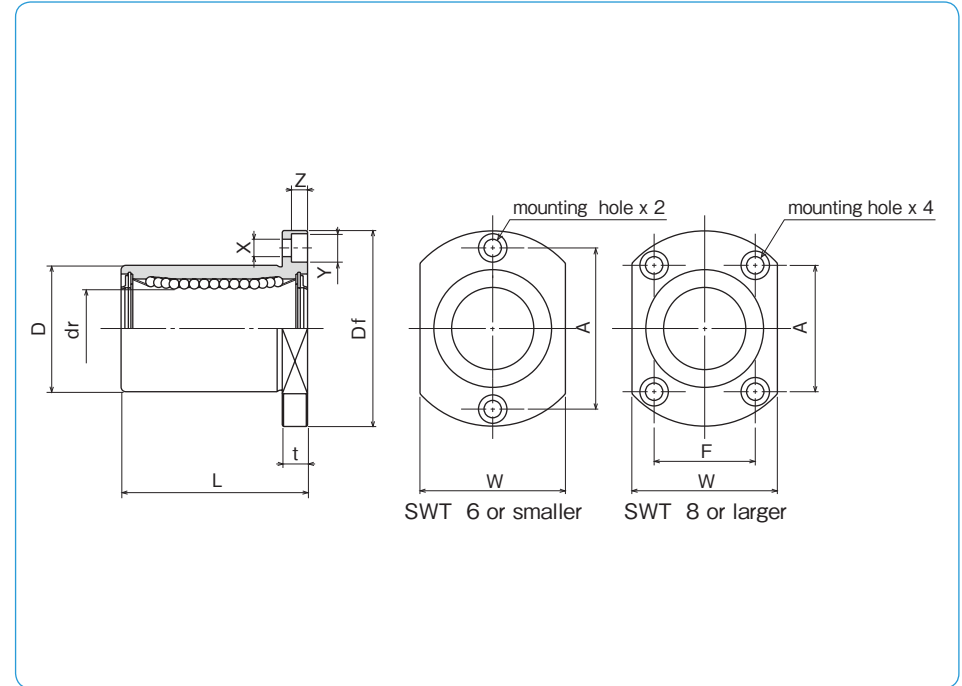
specification
SWT: standard
SWST: anti-corrosion

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

seals on both sides



part number				number of ball circuits	major dimensions		
standard steel retainer	anti-corrosion resin retainer	stainless steel retainer	resin retainer		dr	D	L
inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	
SWT 4 UU	SWT 4G UU	SWST 4 UU	SWST 4G UU	4	.2500 (6.350)	.5000 (12.700)	.7500 (19.050)
SWT 6 UU	SWT 6G UU	SWST 6 UU	SWST 6G UU	4	.3750 (9.525)	.6250 (15.875)	.8750 (22.225)
SWT 8 UU	SWT 8G UU	SWST 8 UU	SWST 8G UU	4	.5000 (12.700)	.8750 (22.225)	1.2500 (31.750)
SWT10 UU	SWT10G UU	SWST10 UU	SWST10G UU	4	.6250 (15.875)	1.1250 (28.575)	1.5000 (38.100)
SWT12 UU	SWT12G UU	SWST12 UU	SWST12G UU	5	.7500 (19.050)	1.2500 (31.750)	1.6250 (41.275)
SWT16 UU	SWT16G UU	SWST16 UU	SWST16G UU	6	1.0000 (25.400)	1.5625 (39.688)	2.2500 (57.150)
SWT20 UU	SWT20G UU	SWST20 UU	SWST20G UU	6	1.2500 (31.750)	2.0000 (50.800)	2.6250 (66.675)

* UU type is standard.

flange							eccentricity	perpendicularity	basic load rating		mass	shaft diameter
Df	W	t	A	F	X×Y×Z	inch (μm)			inch (μm)	dynamic C N		
1.2500 (31.750)	.7500 (19.050)	.2190 (5.556)	.8750 (22.225)	—	.1560 × .2500 × .1410 (3.969 × 6.350 × 3.572)	.0005 (12)	.0005 (12)	206	265	28	1/4 (6.350)	
1.5000 (38.100)	.8750 (22.225)	.2500 (6.350)	1.0625 (26.988)	—	.1875 × .2970 × .1720 (4.763 × 7.541 × 4.366)	.0005 (12)	.0005 (12)	225	314	44	3/8 (9.525)	
1.7500 (44.450)	1.1250 (28.575)	.2500 (6.350)	1.1250 (33.338)	.6875 (17.463)	.1875 × .2970 × .1720 (4.763 × 7.541 × 4.366)	.0006 (15)	.0006 (15)	510	784	77	1/2 (12.700)	
2.0000 (50.800)	1.3750 (34.925)	.2500 (6.350)	1.2500 (31.750)	.9375 (23.813)	.1875 × .2970 × .1720 (4.763 × 7.541 × 4.366)	.0006 (15)	.0006 (15)	774	1,180	125	5/8 (15.875)	
2.1875 (55.563)	1.5000 (38.100)	.3125 (7.938)	1.3750 (34.925)	1.0000 (25.400)	2.187 × .3440 × .2030 (5.556 × 8.731 × 5.159)	.0008 (20)	.0008 (20)	862	1,370	162	3/4 (19.050)	
2.5000 (63.500)	1.8750 (47.625)	.3125 (7.938)	1.5625 (39.688)	1.3125 (33.338)	2.187 × .3440 × .2030 (5.556 × 8.731 × 5.159)	.0008 (20)	.0008 (20)	980	1,570	293	1 (25.400)	
3.1250 (79.375)	2.3750 (60.325)	.3750 (9.525)	1.8750 (47.625)	1.7500 (44.450)	2.812 × .4060 × .2656 (7.144 × 10.319 × 6.747)	.0008 (20)	.0008 (20)	1,570	2,740	586	1-1/4 (31.750)	

1N≅0.225lbf 1kg≅2.205lbf