

Flanged Linear Bushings (Double with Pilot)

Compact Type

Flanged Linear Bushings (Double with Pilot) – Compact Type

Type			Outer Cylinder			Balls	Retainer	Ambient Operating Temperature	Accessories
Round Flange	Square Flange	Compact Flange	Material	Hardness	Surface Treatment	Material	Material		
LHIRKW	LHISKW	LHICKW	52100 Bearing Steel	58 HRC min.	—	52100 Bearing Steel	Plastic (Duracon M9 or Equivalent)	-20~80°C	Seal Material Nitrile Rubber (-20~120°C)

ⓘ For Piloted and Flanged Type application examples, see P.385.

dr	Tol.	D	Tol.	L	Tol.	ℓ	H	T	d	d ₁	t	r	P.C.D.	W	F	A	Eccentricity	Rows of Balls	*Perpendicularity	Basic Load Rating			Mass(g)			
																				C (Dynamic) N	Co (Static) N	Allowable Static Moment (N·m)	Round Flange	Square Flange	Compact Flange	
6		10	0 -0.011	35		5	25	5	3.5	6	3.1	3	19	20	—	19					206	309	2.46	24	20	21
8		13	0 -0.013	45		5	28	5	3.5	6	3.1	3	22	23	—	22					383	555	5.76	38	34	35
10	0 -0.010	17	-0.013	55	±0.3	6	35	6	4.5	7.5	4.1	3.75	27	27	—	27	0.015	6	0.015		585	867	10.99	79	68	73
12		19	0 -0.016	57		6	38	6	4.5	7.5	4.1	3.75	30	29	—	30					608	899	11.85	95	82	kgf=Nx0.101972 107
16		26	-0.016	70		6	44	6	4.5	7.5	4.1	3.75	36	34	24	27					965	1431	23.48	154	135	141

ⓘ For Precautions for Use, see P.369. ⓘ For linear bushings, hardened shafts with g6 tolerance are recommended. P.202-288
*Perpendicularity of D part to flange mounting surface

Part Number Example

Part Number: LHIRKW12 (L Type Greased)
 LHIRKW12L (L Type Greased)
 LHIRKW12G (G Type Greased)
 LHIRKW12H (H Type Greased)

ⓘ Alternative grease types available.

Flanged Linear Bushings (Center Flanged Double)

Standard Type

Flanged Linear Bushings (Center Flanged Double) – Standard Type

RoHS 10

Type			Outer Cylinder			Balls	Retainer	Ambient Operating Temperature	Accessories		
Round Flange	Square Flange	Compact Flange	Material	Hardness	Surface Treatment	Material	Material				
LHMRW	LHMSW	LHMCW	52100 Bearing Steel	58 HRC min.	—	52100 Bearing Steel	Plastic (Duracon M9 Equivalent)	-20~80°C	Seal Material Nitrile Rubber (-20~120°C)		
LHMRWF	LHMSWF	LHMCWF								Stainless Steel (JIS SUS)	-20~110°C
LHMRWM	LHMSWM	LHMCWM								Plastic (Duracon M90 Equivalent)	-20~80°C
LHMRWMF	LHMSWMF	LHMCWMF	440C Stainless Steel Equivalent	56 HRC min.	—	440C Stainless Steel Equivalent	Plastic (Duracon M90 Equivalent)	-20~80°C	Seal Material Nitrile Rubber (-20~120°C)		
SLHMRW	SLHMSW	SLHMCW								Stainless Steel (JIS SUS)	-20~110°C
SLHMRWS	SLHMSWS	SLHMCWS								Plastic (Duracon M90 Equivalent)	-20~80°C

ⓘ For Center Flanged Double application examples, see P.391.

dr	Tol.	D Tolerance		L	Tol.	ℓ	H	T	d	d ₁	t	r	P.C.D.	W	F	A	Eccentricity	Rows of Balls	*Perpendicularity	Basic Load Rating			Mass(g)			
		No Surface Treatment	Surface Treatment																	C (Dynamic) N	Co (Static) N	Allowable Static Moment (N·m)	Round Flange	Square Flange	Compact Flange	
6		12	0	35		15	28	5	3.5	6	3.1	3	20	22	—	20					324	529	2.18	31	25	28
8		15	-0.013	45		20	32	5	3.5	6	3.1	3	24	25	—	24					431	784	4.31	51	43	47
10	0 -0.010	19	0	55	±0.3	24.5	40	6	4.5	7.5	4.1	3.75	29	30	—	29	0.015	4	0.015		588	1100	7.24	98	78	90
12		21	0	57		25.5	42	6	4.5	7.5	4.1	3.75	32	32	—	32					657	1200	10.9	110	90	102
13		23	-0.016	61		27.5	43	6	4.5	7.5	4.1	3.75	33	34	—	33					813	1570	11.6	130	108	123
16		28	0	70	±0.3	32	48	8	5.5	9	5.1	3.75	38	37	22	31					1230	2350	19.7	190	165	182
20		32	0	80		36	54	8	5.5	9	5.1	3.75	43	42	24	36					1400	2740	26.8	260	225	247
25	0 -0.012	40	0	112		52	62	10	6.6	11	6.1	3.75	51	50	32	40	0.020	5	0.020		1560	3140	43.4	540	500	525
30		45	-0.019	123		56.5	74	10	6.6	11	6.1	3.75	60	58	35	49					2490	5490	82.8	680	590	645
35		52	0	135		62.5	82	10	6.6	11	6.1	3.75	67	64	38	55					2650	6270	110	1020	930	945
40	0 -0.014	60	0	151		69	96	13	9	14	8.1	3.75	78	75	45	64	0.025	6	0.025		3430	8040	147	1570	1380	1423
50		80	-0.022	192		89.5	116	13	9	14	8.1	3.75	98	92	56	80					6080	15900	397	3600	3400	3437

ⓘ For Precautions for Use, see P.369. ⓘ Height-Adjusting Spacers for Flanged Bushings can be chosen from P.384.
*Perpendicularity of D part to flange mounting surface

dr	Available Types																	
	Round Flange				Square Flange				Compact Flange									
	LHMRW	LHMRWF	LHMRWM	LHMRWMF	SLHMRW	SLHMRWS	LHMSW	LHMSWF	LHMSWM	LHMSWMF	SLHMSW	SLHMSWS	LHMCW	LHMCWF	LHMCWM	LHMCWMF	SLHMCW	SLHMCWS
6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
10	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
12	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
13	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
20	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
25	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
30	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
50	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Part Number Example

Part Number: LHMCW25 (L Type Greased)
 LHMCW25L (L Type Greased)
 LHMCW25G (G Type Greased)
 LHMCW25H (H Type Greased)

ⓘ Alternative grease types available.

Application Example

Height-Adjusting Spacer for Flanged Bushing
 Flanged Linear Bushing