

Flanged Linear Bushings (Center Flanged Double)

Compact Type

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

Mounting Direction: ←

Round Flange: 4-Mounting Holes, P.C.D., d_1

Square Flange: 4-Mounting Holes, P.C.D., d_1

Compact Flange: 2-Mounting Holes, 4-Mounting Holes, d_1 , d_2 , $D+6$

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

kgf=Nx0.101972

dr	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	0	35	15	25	5	3.5	6	3.1	3	19	20	—	19	0.015	6	0.015	206	309	2.46	24	20	21
8	0	45	20	28	5	3.5	6	3.1	3	22	23	—	22				383	555	5.76	38	34	35
10	0	55	24.5	35	6	4.5	7.5	4.1	3.75	27	27	—	27				585	867	10.99	79	68	73
12	0	57	25.5	38	6	4.5	7.5	4.1	3.75	30	29	—	30				608	899	11.85	95	82	87
16	0	70	32	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. Ⓜ Height-Adjusting Spacers for Flanged Bushings can be chosen from P.384.
*Perpendicularity of D part to flange mounting surface

Part Number Example

Part Number: LHMRKW12

- LHMRKW12L (L Type Greased)
- LHMRKW12G (G Type Greased)
- LHMRKW12H (H Type Greased)

Flanged Linear Bushings (With Long Pilot)

Long Type

Flanged Linear Bushings (With Long Pilot) – Long Type

RoHS 10

Type	Outer Cylinder / Balls			Outer Cylinder Surface Treatment	Retainer Material	Ambient Operating Temperature	Accessories
	Round Flange	Square Flange	Compact Flange				
Long	LHKRNL	LHKSNL	LHKCNL	—	Plastic (Duracon M9 Equivalent) Stainless Steel (JIS SUS)	-20~80°C	Seal Material Nitrile Rubber (-20~120°C)
	LHKRNL	LHKSNL	LHKCNL				
	LHKRNL	LHKSNL	LHKCNL				
Long Pilot	SLHKRFLS	SLHKSFLS	—	Electroless Nickel Plating	Stainless Steel (JIS SUS)	-20~110°C	Seal Material Nitrile Rubber (-20~120°C)
	LHKIRNL	LHKISNL	LHKICNL				
	LHKIRNL	LHKISNL	LHKICNL				
	LHKIRNL	LHKISNL	LHKICNL				
	LHKIRNL	LHKISNL	LHKICNL				
	LHKIRNL	LHKISNL	LHKICNL				

Long Mounting Direction: →

Long, Pilot Mounting Direction: ←

Round Flange: 4-Mounting Holes, P.C.D.

Square Flange: 4-Mounting Holes, P.C.D.

Compact Flange: 4-Mounting Holes, P.C.D., d_1 , d_2 , $D+6$

Ⓜ Mounting holes of long type are on the opposite direction.
Ⓜ For Piloted and Flanged Type application examples, see P.385.

kgf=Nx0.101972

dr	D Tol.	D Tolerance		L Tol.	ℓ	H	T	d	d ₁	t	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	0	15	0	49	5	32	5	3.5	6	3.1	24	25	—	—	0.020	4	0.020	324	529	8.2	66	58	—
8	-0.012	19	-0.013	68	6	40	6	4.5	7.5	4.1	29	30	—	—				431	784	16.0	135	117	—
10	0	23	0	82	6	43	6	4.5	7.5	4.1	33	34	—	—				588	1100	27.0	205	189	—
12	0	26	-0.016	86	6	46	6	4.5	7.5	4.1	36	35	—	—				657	1200	40.1	248	228	—
13	0	28	0	92	6	48	6	4.5	7.5	4.1	38	37	—	—				813	1570	42.9	308	286	—
16	-0.015	32	0	105	8	54	8	5.5	9	5.1	43	42	24	36	0.025	5	0.025	1230	2350	73.5	412	376	386
20	0	40	-0.019	120	8	62	8	5.5	9	5.1	51	50	32	40				1400	2740	98.0	752	714	724
25	0	45	-0.025	167	10	74	10	6.6	11	6.1	60	58	35	49				1560	3140	157	1244	1163	1178
30	-0.018	52	0	184	10	82	10	6.6	11	6.1	67	64	38	55				2490	5490	297	1636	1543	1567
35	0	60	-0.030	200	13	96	13	9	14	8.1	78	75	45	64				2650	6270	373	2580	2400	2433
40	-0.021	65	—	230	13	101	13	9	14	8.1	83	80	48	68	3430	8040	553	2950	2510	2798			

Ⓜ For linear bushings, hardened shafts with g6 tolerance are recommended. P.202-288
*Perpendicularity of D part to flange mounting surface

Part Number	Type	dr	Available Types – Long													
			Round Flange				Square Flange				Compact Flange					
(Round Flange)	LHKRNL	6	●	●	●	●	●	●	●	●	●	●	●	●	●	●
(Square Flange)	LHKSNL	6	●	●	●	●	●	●	●	●	●	●	●	●	●	●
(Compact Flange)	LHKCNL	6	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Part Number Example

Part Number: LHKRL8

- LHKRL8L (L Type Greased)
- LHKRL8G (G Type Greased)
- LHKRL8H (H Type Greased)

Ⓜ Alternative grease types available.

Application Example

For long stroke applications, use longer bushings for less clearances.

Part Number	Type	dr	Available Types – Long with Pilot													
			Round Flange				Square Flange				Compact Flange					
(Round Flange)	LHKIRNL	6	●	●	●	●	●	●	●	●	●	●	●	●	●	●
(Square Flange)	LHKISNL	6	●	●	●	●	●	●	●	●	●	●	●	●	●	●
(Compact Flange)	LHKICNL	6	●	●	●	●	●	●	●	●	●	●	●	●	●	●