

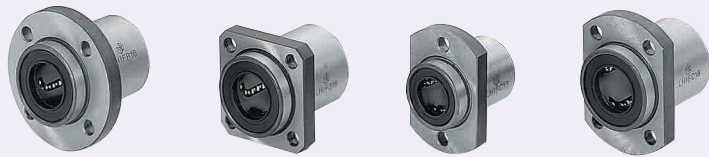
Flanged Linear Bushings

Single, Pilot

= For customers using industry standard products =
The part enclosed in the red frame is as per industry standard specifications (Outer cylinder EN 1.3505 Equiv. equivalent, Retainer resin).
Consider these specifications while selecting the product.

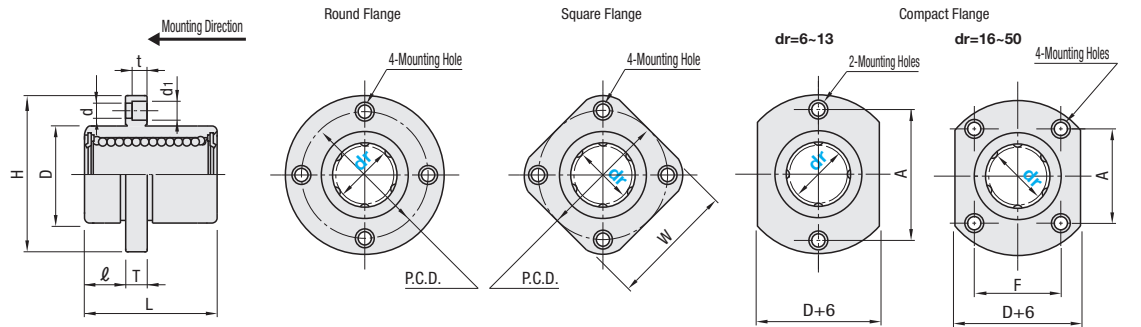
■ **Features:** Easy to assemble with bolt-on flanges. The linear bushing does not protrude out on the front side for good space utilization.

Industry Standard



RoHS10

Type			Outer Cylinder			Balls	Retainer	Ambient Operating Temp.	Accessory
Round Flange	Square Flange	Compact Flange	Material	Hardness	Surface Treatment	Material	Material		
LHIFR	LHIFS	LHIFC	EN 1.3505 Equiv.	58HRC~	Electroless Nickel Plating	EN 1.3505 Equiv.	Plastic (Duracon M90 Equiv.)	-20~ 80°C	Seal Material Nitrile Rubber (-20~120°C)
LHIFRF	LHIFSF	LHIFCF					Stainless Steel (Stainless Steel)	-20~110°C	
LHIFRM	LHIFSM	LHIFCM					Plastic (Duracon M90 Equiv.)	-20~ 80°C	
LHIFRMF	LHIFSMF	LHIFCMF	EN 1.4125 Equiv.	56HRC~	-	EN 1.4125 Equiv.	Stainless Steel (Stainless Steel)	-20~110°C	
SLHIFR	SLHIFS	SLHIFC					Plastic (Duracon M90 Equiv.)	-20~ 80°C	
SLHIFRF	SLHIFSF	SLHIFCF					Stainless Steel (Stainless Steel)	-20~120°C	



dr	D Tolerance			L	ℓ	H	T	d	d1	t	P.C.D.	W	F	A	Eccentricity	Rows of Balls	* Perpendicularity	Basic Load Rating			Mass (g)		
Tolerance	No Surface Treatment	Surface Treatment	Tolerance	C (Dynamic)														N (Co (Static)	N (Round Flange)	S (Square Flange)	C (Compact Flange)		
6	0 -0.009	12	0	19	±0.3	5	28	5	3.5	6	3.1	20	22	-	20	0.012	4	0.012	206	265	24	18	21
8		15	-0.013	-0.018		24	32	5	4	7.5	4.1	24	25	-	24				265	380	37	29	33
10		19	0	29		40	6	4	7.5	4.1	29	30	-	29	372				549	72	52	64	
12		21	0	30		42	6	4	7.5	4.1	32	32	-	32	412				598	76	57	68	
13		23	-0.016	-0.021		32	43	6	4	7.5	4.1	33	34	-	33				510	784	88	72	81
16	0 -0.010	28	0	37	±0.3	8	48	8	5.5	9	5.1	38	37	22	31	0.015	5	0.015	775	1180	120	104	112
20		32	0	42		54	8	5	9	5.1	43	42	24	36	882				1370	180	145	167	
25		40	0	59		62	8	5	9	5.1	51	50	32	40	980				1570	340	300	325	
30		45	0	64		74	10	6.6	11	6.1	60	58	35	49	1570				2740	470	375	388	
35		52	0	70		82	10	6.6	11	6.1	67	64	38	55	1670				3140	650	560	575	
40	0 -0.012	60	0	80	±0.3	13	96	13	9	14	8.1	78	75	45	64	0.020	6	0.020	2160	4020	1060	880	913
50		80	-0.022	-0.030		100	116	13	9	14	8.1	98	92	56	80				3820	7940	2200	2000	2037

For Precautions for Use, see P303. * Perpendicularity of D to flange mounting surface kgf=Nx0.101972
Select Height-adjusting Spacers for Flanged Bushings from P330.

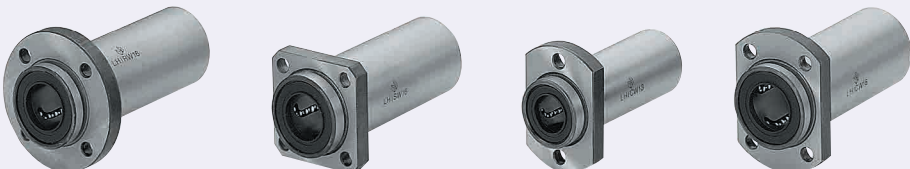
Flanged Linear Bushings

Double, Pilot

= For customers using industry standard products =
The part enclosed in the red frame is as per industry standard specifications (Outer cylinder EN 1.3505 Equiv. equivalent, Retainer resin).
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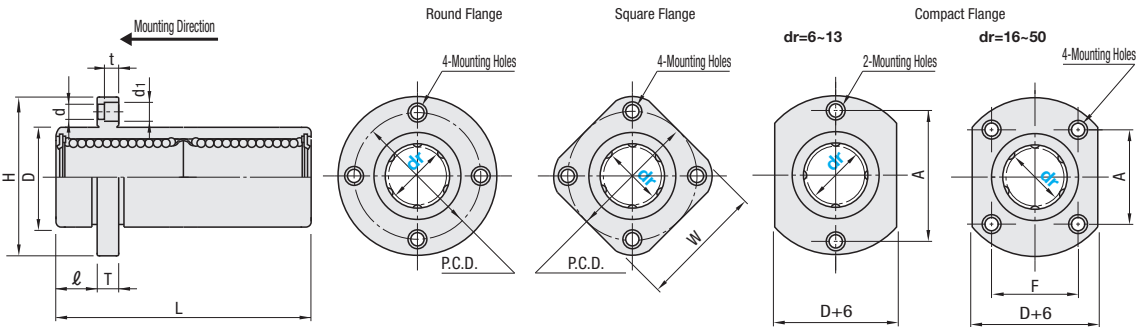
■ **Features:** Easy to assemble with bolt-on flanges. The linear bushing does not protrude out on the front side for good space utilization.

Industry Standard



RoHS10

Type			Outer Cylinder			Balls	Retainer	Ambient Operating Temp.	Accessory
Round Flange	Square Flange	Compact Flange	Material	Hardness	Surface Treatment	Material	Material		
LHIRW	LHISW	LHICW	EN 1.3505 Equiv.	58HRC~	Electroless Nickel Plating	EN 1.3505 Equiv.	Plastic (Duracon M90 Equiv.)	-20~ 80°C	Seal Material Nitrile Rubber (-20~120°C)
LHIRWF	LHISWF	LHICWF					Stainless Steel (Stainless Steel)	-20~110°C	
LHIRWM	LHISWM	LHICWM					Plastic (Duracon M90 Equiv.)	-20~ 80°C	
LHIRWMF	LHISWMF	LHICWMF	EN 1.4125 Equiv.	56HRC~	-	EN 1.4125 Equiv.	Stainless Steel (Stainless Steel)	-20~110°C	
SLHIRW	SLHISW	SLHICW					Plastic (Duracon M90 Equiv.)	-20~ 80°C	
SLHIRWS	SLHISWS	SLHICWS					Stainless Steel (Stainless Steel)	-20~120°C	



dr	D Tolerance			L	ℓ	H	T	d	d1	t	P.C.D.	W	F	A	Eccentricity	Rows of Balls	* Perpendicularity	Basic Load Rating			Mass (g)				
	Tolerance	No Surface Treatment	Surface Treatment															Tolerance	C (Dynamic) N	Co (Static) N	Allowable Static Moment (N · m)	Round Flange	Square Flange	Compact Flange	
6	0	-0.010	12	0	35	±0.3	5	28	5	3.5	6	3.1	20	22	-	20	0.015	4	0.015	324	529	2.18	31	25	28
8		15	-0.013	-0.018	45		6	32	5	4.5	7.5	4.1	24	25	-	24				431	784	4.31	51	43	47
10		19	0	0	55		6	40	6	5.5	9	5.1	29	30	-	29				588	1100	7.24	98	78	90
12		21	-0.016	-0.021	57		6	42	6	6.6	11	6.1	32	32	-	32				657	1200	10.9	110	90	102
13		23	-0.016	-0.021	61		6	43	6	6.6	11	6.1	33	34	-	33				813	1570	11.6	130	108	123
16	0	-0.012	28	0	70	±0.3	8	48	8	5.5	9	5.1	38	37	22	31	0.020	5	0.020	1230	2350	19.7	190	165	182
20		32	0	0	80		8	54	8	5.5	9	5.1	43	42	24	36				1400	2740	26.8	260	225	247
25		40	-0.019	-0.025	112		8	62	8	6.6	11	6.1	51	50	32	40				1560	3140	43.4	540	500	525
30		45	-0.019	-0.025	123		8	74	10	6.6	11	6.1	60	58	35	49				2490	5490	82.8	680	590	645
35		52	0	0	135		10	82	10	6.6	11	6.1	67	64	38	55				2650	6270	110	1020	930	945
40	0	-0.015	60	-0.022	-0.030	151	±0.3	13	96	13	9	8.1	78	75	45	64	0.025	6	0.025	3430	8040	147	1570	1380	1423
50		80	-0.022	-0.030	192	13		116	13	9	8.1	81	78	56	80	6080				15900	397	3600	3400	3437	

For Precautions for Use, see P303. * Perpendicularity of D to flange mounting surface kgf=Nx0.101972
Select Height-adjusting Spacers for Flanged Bushings from P330.

dr	Unit Price															
	Round Flange					Square Flange					Compact Flange					
	LHIFR	LHIFRF	LHIFRM	LHIFRMF	SLHIFR	LHIFS	LHIFSF	LHIFSM	LHIFSMF	SLHIFS	LHIFSS	LHIFC	LHIFCF	LHIFCM	LHIFCMF	SLHIFC
6																
8																
10																
12																
13																
16																
20																
25																
30																
35		-		-	-	-	-		-	-	-		-		-	-
40		-		-	-	-	-		-	-	-		-		-	-
50		-		-	-	-	-		-	-	-		-		-	-

Ordering Example: LHIIFR20 (L Type Greased)
Alternative grease types available. For Days to Ship, Price and Performance, see P304.
Example: Flanged Linear Bushing with Pilot Single (LHIFR)
Plate
Shaft (SFJ)

dr	Round Flange						Unit Price Square Flange						Compact Flange					
	LHIRW	LHIRWF	LHIRWM	LHIRWMF	SLHIRW	SLHIRWS	LHISW	LHISWF	LHISWM	LHISWMF	SLHISW	SLHISWS	LHICW	LHICWF	LHICWM	LHICWMF	SLHICW	SLHICWS
6																		
8																		
10																		
12																		
13																		
16																		
20																		
25																		
30																		
35		-		-	-	-		-		-	-	-		-		-	-	-
40		-		-	-	-		-		-	-	-		-		-	-	-
50		-		-	-	-		-		-	-	-		-		-	-	-

Ordering Example: LHIRW8 (L Type Greased)
Alternative grease types available. For Days to Ship, Price and Performance, see P304.
Example: Flanged, Pilot Linear Bushings Double (LHIFRW)
Plate
Shaft (SFJ)