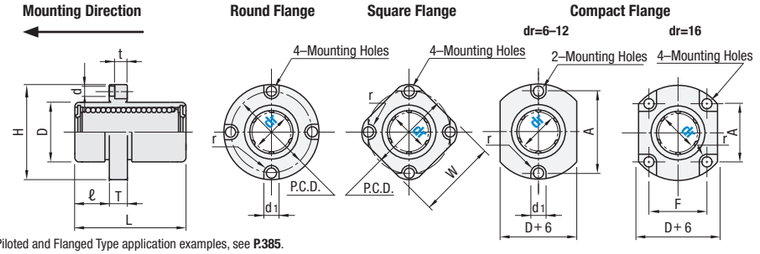
Flanged Linear Bushings (Single with Pilot)

Compact / Tapped Type

Flanged Linear Bushings (Single with Pilot) – Compact Type

Type			Outer Cylinder			Balls	Retainer	Ambient Operating Temp.	Accessories
Round Flange	Square Flange	Compact Flange	Material	Hardness	Surface Treatment	Material	Material		
LHIRK	LHISK	LHICK	52100 Bearing Steel	58 HRC min.	—	52100 Bearing Steel	Plastic (Duracon M90 Equivalent)	-20–80°C	Seal Material Nitrile Rubber (-20–120°C)



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

kgf=Nx0.101972

dr	Tol.	D	Tol.	L	Tol.	ℓ	H	T	d	d1	t	r	P.C.D.	W	F	A	Eccentricity	Rows of Balls	*Perpendicularity	Basic Load Rating C (Dynamic) N	Basic Load Rating Co (Static) N	Mass(g) Round Flange	Mass(g) Square Flange	Mass(g) Compact Flange
6	0 -0.009	10	0 -0.011	19	±0.3	5	25	5	3.5	6	3.1	3	19	20	—	19	0.012	6	0.012	131	155	18	14	15
8		13	0 -0.013	24			28						22	23	—	22				235	277	27	22	24
10		17		29		6	35	6	4.5	7.5	4.1	3.75	27	27	—	27				368	433	52	41	46
12		19	0 -0.016	30			38						30	29	—	30				381	449	64	50	55
16		26		37			44						36	34	24	27				608	716	96	77	83

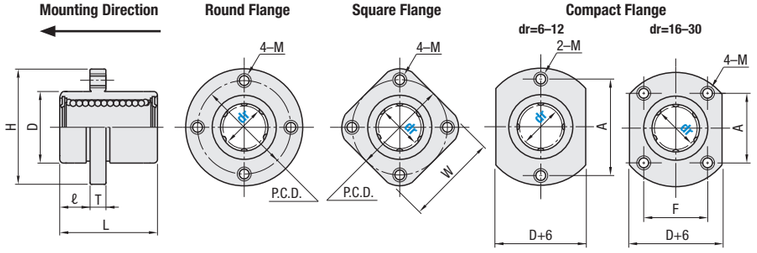
For Precautions for Use, see **P.369**. For linear bushings, hardened shafts with g6 tolerance are recommended. **P.202–288**

*Perpendicularity of D part to flange mounting surface

Flanged Linear Bushings (Single with Pilot) – Tapped Type

RoHS10

Type			Outer Cylinder			Balls	Retainer	Ambient Operating Temp.	Accessories
Round Flange	Square Flange	Compact Flange	Material	Hardness	Surface Treament	Material	Material		
LHITR	LHITS	LHITC	52100 Bearing Steel	58 HRC min.	—	52100 Bearing Steel	Plastic (Duracon M90 Equivalent)	-20–80°C	Seal Material Nitrile Rubbe (-20–120°C)



kgf=Nx0.101972

dr	Tol.	D	Tol.	L	Tol.	ℓ	H	T	M	P.C.D.	W	F	A	Eccentricity	Rows of Balls	*Perpendicularity	Basic Load Rating C (Dynamic) N	Basic Load Rating Co (Static) N	Mass(g) Round Flange	Mass(g) Square Flange	Mass(g) Compact Flange
6	0 -0.009	12	0 -0.013	19	±0.3	5	28	5	M3	20	22	—	20	0.012	4	0.012	206	265	24	18	21
8		15		24			32			24	25	—	24				265	380	37	29	33
10		19	0 -0.016	29		6	40	6	M4	29	30	—	29				372	549	72	52	64
12		21		30			42			32	32	—	32				412	598	76	57	68
16		28		37			48			38	37	22	31				775	1180	120	104	112
20	0 -0.010	32	0 -0.019	42		8	54	8	M5	43	42	24	36	0.015	5	0.015	882	1370	180	145	167
25		40		59			62			51	50	32	40		6		980	1570	340	300	325
30		45		64		10	74	10	M6	60	58	35	49				1570	2740	470	375	388

For Precautions for Use, see **P.369**. For linear bushings, hardened shafts with g6 tolerance are recommended. **P.202–288**

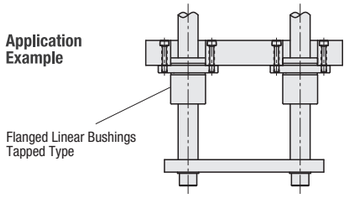
* Perpendicularity of D part to flange mounting surface

Part Number Example

Part Number
LHIRK12
LHIRK12L (L Type Greased)
LHIRK12G (G Type Greased)
LHIRK12H (H Type Greased)

Alternative grease types available.

Application Example

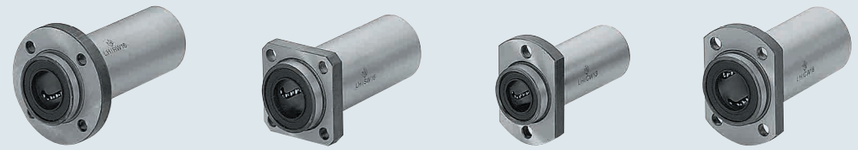


can be screw tightened from above.

Flanged Linear Bushings (Double with Pilot)

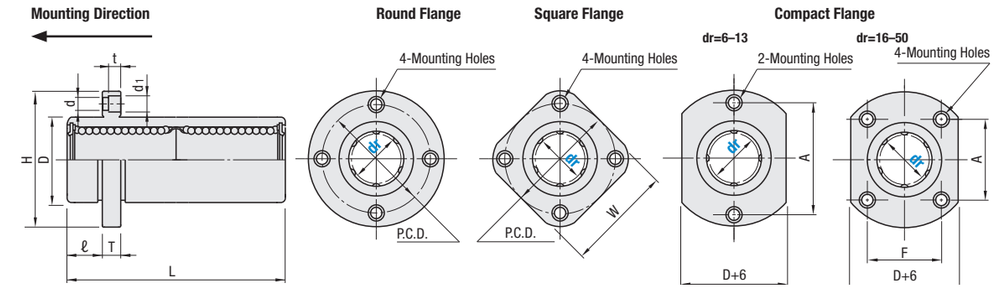
Standard Type

Flanged Linear Bushings (Double with Pilot) – Standard Type



RoHS10

Type			Outer Cylinder			Balls	Retainer	Ambient Operating Temp.	Accessories
Round Flange	Square Flange	Compact Flange	Material	Hardness	Surface Treatment	Material	Material		
LHIRW	LHISW	LHICW	52100 Bearing Steel	58 HRC min.	—	52100 Bearing Steel	Plastic (Duracon M9 Equivalent)	-20–80°C	Seal Material Nitrile Rubber (-20–120°C)
LHIRWF	LHISWF	LHICWF					Stainless Steel (JIS SUS)	-20–110°C	
LHIRWM	LHISWM	LHICWM			Electroless Nickel Plating	440C Stainless Steel Equivalent	Plastic (Duracon M90 Equivalent)	-20–80°C	
LHIRWMF	LHISWMF	LHICWMF					Stainless Steel (JIS SUS)	-20–110°C	
SLHIRW	SLHISW	SLHICW	440C Stainless Steel Equivalent	56 HRC min.	—		Plastic (Duracon M90 Equivalent)	-20–80°C	
SLHIRWS	SLHISWS	SLHICWS					Stainless Steel (JIS SUS)	-20–120°C	



dr	Tol.	D Tolerance No Surface Treatment	D Tolerance Surface Treatment	L	Tol.	ℓ	H	T	d	d1	t	P.C.D.	W	F	A	Eccentricity	Rows of Balls	*Perpendicularity	Basic Load Rating C (Dynamic) N	Basic Load Rating Co (Static) N	Allowable Static Moment (N•m)	Mass(g) Round Flange	Mass(g) Square Flange	Mass(g) Compact Flange
6	0 -0.010	12	0 -0.013	0 -0.018	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			45			32					24	25	—	24				431	784	4.31	51	43	47
10		19	0 -0.016	0 -0.021	55		6	40	6	4.5	7.5	4.1	29	30	—	29				588	1100	7.24	98	78	90
12		21			57			42					32	32	—	32				657	1200	10.9	110	90	102
13		23			61			43					33	34	—	33				813	1570	11.6	130	108	123
16		28			70			48					38	37	22	31				1230	2350	19.7	190	165	182
20	0 -0.012	32	0 -0.019	0 -0.025	80		8	54	8	5.5	9	5.1	43	42	24	36	0.020	5	0.020	1400	2740	26.8	260	225	247
25		40			112			62					51	50	32	40		6		1560	3140	43.4	540	500	525
30		45			123		10	74	10	6.6	11	6.1	60	58	35	49				2490	5490	82.8	680	590	645
35	0 -0.015	52	0 -0.022	0 -0.030	135			82					67	64	38	55	0.025		0.025	2650	6270	110	1020	930	945
40		60			151		13	96	13	9	14	8.1	78	75	45	64				3430	8040	147	1570	1380	1423
50		80			192			116					98	92	56	80				6080	15900	397	3600	3400	3437

For Precautions for Use, see **P.369**. For linear bushings, hardened shafts with g6 tolerance are recommended. **P.202–288**
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
LHIRW8
LHIRW8L (L Type Greased)
LHIRW8G (G Type Greased)
LHIRW8H (H Type Greased)

Alternative grease types available.

Application Example