


Linear Bushings (Double) / Mini-Flanged Linear Bushings

with Grease Fitting

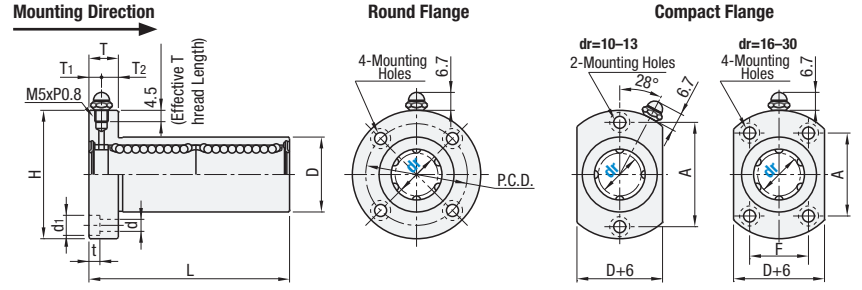
Flanged Linear Bushings (Double) – with Grease Fitting



RoHS 10

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

Mounting Direction →




Ⓢ Compared to Flanged Linear Bushings Double Standard Type, T and L dimensions are larger but mounting dimensions are the same.

Part Number	D		L		H	T	T ₁	T ₂	d	d ₁	t	P.C.D.	F	A	Eccentricity	Rows of Balls	*Perpendicularity	Basic Load Rating		Allowable Static Moment (N-m)	Mass(g)					
	dr	Tol.	Tol.	Tol.														C (Dynamic) N	Co (Static) N		Round Flange	Compact Flange				
LHQRW LHCW	10	0	19	0	60	11	4.6	6.4	4.5	7.5	4.1	29	—	29	0.015	4	0.015	588	1100	7.24	139	120				
	12	0	21	0	62													42	32	—	32	657	1200	10.9	154	134
	13	-0.010	23	-0.016	66													43	33	—	33	813	1570	11.6	175	157
	16	0	28	0	75	13	5.7	7.3	5.5	9	5.1	38	22	31	0.020	5	0.020	1230	2350	19.7	245	225				
	20	0	32	0	85													54	43	24	36	1400	2740	26.8	318	290
	25	-0.012	40	-0.019	117													62	55	7.5	5.5	9	5.1	51	32	40
	30	0	45	0	128	74	6.0	7.0	6.6	11	6.1	60	35	49	0.020	6	0.020	2490	5490	82.8	758	705				

Ⓢ For linear bushings, hardened shafts with g6 tolerance are recommended. P.202-288 Ⓢ After greasing, refuel grease by stroking bushings. kgf=Nx0.101972
 Ⓢ For Precautions for Use, see P.369. *Perpendicularity of D to flange mounting surface

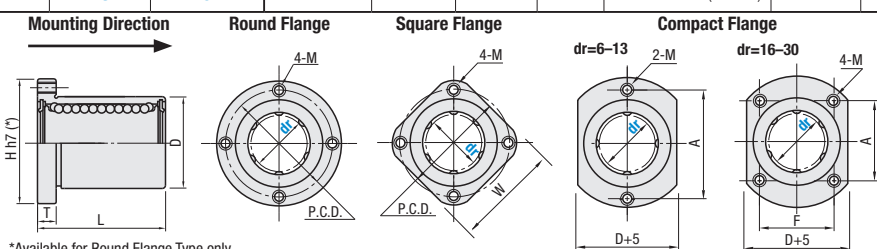
Mini-Flanged Linear Bushings



RoHS 10

Type			Outer Cylinder			Balls	Retainer	Ambient Operating Temp.	Accessories
Round Flange	Square Flange	Compact Flange	Material	Hardness	Surface Treatment	Material	Material		
LHTR	LHTS	LHTC	52100 Bearing Steel	58 HRC min.	—	52100 Bearing Steel	Plastic (Duracon M90 Equivalent)	-20~80°C	Seal Material: Nitrile Rubber (-20~120°C)
LHTRF	LHTSF	LHTCF					Stainless Steel (JIS SUS)		

Mounting Direction →



*Available for Round Flange Type only

Part Number	D		L		H	T	M	P.C.D.	W	F	A	Eccentricity	Rows of Balls	*Perpendicularity	Basic Load Rating		Mass(g)			
	dr	Tol.	Tol.	Tol.											C (Dynamic) N	Co (Static) N	Round Flange	Square Flange	Compact Flange	
Round Flange	6	0	12	0	19	5	M3	17	18	—	17	0.012	4	0.012	206	265	19	15	17	
	8	0	15	-0.013	24			21	21	—	21				265	380	30	25	27	
	10	0	19	0	29	6	M4	26	26	—	26				372	549	61	50	53	
	12	-0.009	21	0	30			29	28	—	29				412	598	66	52	57	
	13	0	23	-0.016	32			38	30	30	—				30	510	784	78	66	70
	16	0	28	0	37			43	35	33	20				29	775	1180	108	90	99
Square Flange	13	0	23	-0.016	32	8	M5	39	37	22	32	0.015	5	0.015	882	1370	159	130	145	
	16	0	28	0	37			56	45	27	39				980	1570	314	283	298	
	20	-0.010	40	-0.019	59			66	10	M6	55				51	32	45	1570	2740	417

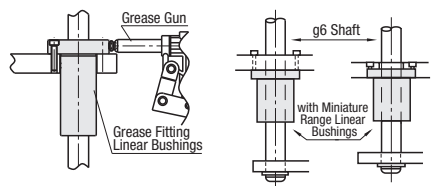
Ⓢ For Precautions for Use, see P.369. Ⓢ For linear bushings, hardened shafts with g6 tolerance are recommended. P.202-288 kgf=Nx0.101972
 *Perpendicularity of D to flange mounting surface

Part Number Example

Part Number	LHQRW16
	LHTR16
	LHQRW10L (L Type Greased)
	LHQRW10G (G Type Greased)
	LHQRW10H (H Type Greased)

Ⓢ Alternative grease types available.

Application Example



Strength of Mini-Flanged Linear Bushings
 Housing strength test has proven that these bushings are as capable of maintaining strength under moment load as conventional flanged linear bushings, or better.