

Flanged Linear Bushings Medium Type

= For customers selecting MISUMI original specifications =
 The part enclosed in the red frame is as per standard specifications (Outer cylinder SUJ2 equivalent, Retainer resin). Consider these specifications while selecting the product.

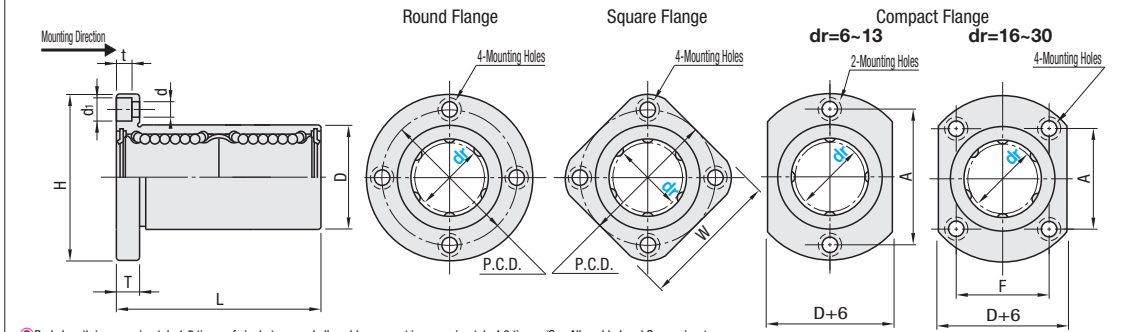
Features: Easy to assemble with bolt-on flanges.

MISUMI Original



RoHS10

Type			Outer Cylinder			Balls	Retainer	Ambient Operating Temp.	Accessory
Round Flange	Square Flange	Compact Flange	Material	Hardness	Surface Treatment	Material	Material		
LHFRD	LHFSD	LHFCD	SUJ2 Equivalent	58HRC~	-	SUJ2 Equivalent	Plastic (Duracon M90 Equivalent)	-20~80°C	Seal Material Nitrile Rubber (-20~120°C)
LHFRDM	LHFSDM	LHFCDM			Electroless Nickel Plating	SUS440C Equivalent			



Body length is approximately 1.5 times of single type, and allowable moment is approximately 4.3 times. (See Allowable Load Comparison)

Part Number	Type	dr	D Tolerance		L	H	T	d	d1	t	P.C.D.	W	F	A	Eccentricity (Max)	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			
LHFRD LHFSD LHFCD LHFRDM LHFSDM LHFCDM	0	-0.010	6	12	0	29	28	5	3.5	6	3.1	20	22	-	20	0.015	4	0.015	226	310	1.42	27	21	24		
			8	15	-0.013	37	32	24	25	-	24	25	-	24					310	452	2.12	47	39	43		
			10	19			40	29	30	-	29									508	718	4.37	85	65	77	
			12	21	0	47	42	32	32	-	32									634	814	6.2	89	69	81	
			13	23	-0.016	56	43	33	34	-	33									640	826	6.2	109	87	102	
			16	28		65	48	38	37	22	31										1164	1448	13.1	157	132	149
			20	32	0	74	54	43	42	24	36										1554	2068	18.3	232	197	219
			25	40	-0.019	83	62	51	50	32	40										1725	3068	25.3	481	442	452
			30	45	-0.025	90	74	60	58	35	49										2440	3974	42.7	560	482	494

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

dr	Round Flange		Square Flange		Compact Flange	
	LHFRD	LHFRDM	LHFSD	LHFSDM	LHFCD	LHFCDM
6						
8						
10						
12						
13						
16						
20						
25						
30						

Allowable Load Comparison

Type	Basic Dynamic Load Rating	Basic Static Load Rating	Allowable Static Moment
Short	0.7	0.6	Approx. 0.6
Single	1	1	1
Medium	1.4	1.3	Approx. 4.3
Double	1.6	2	Approx. 6
Medium Long	1.6	1.6	Approx. 10
Long	1.6	2	Approx. 21

* "1" represents Single Type for comparison.

Ordering Example
 Part Number
 LHFRD8
 LHFRD10
 LHFRD12L (L Type Greased)
 Alternative grease types available.
 For Days to Ship, Price and Performance, see P304.

Flanged Linear Bushings Medium, Pilot / Medium, Center Flanged

= For customers selecting MISUMI original specifications =
 The products on this page are of standard specifications (Outer cylinder SUJ2 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.

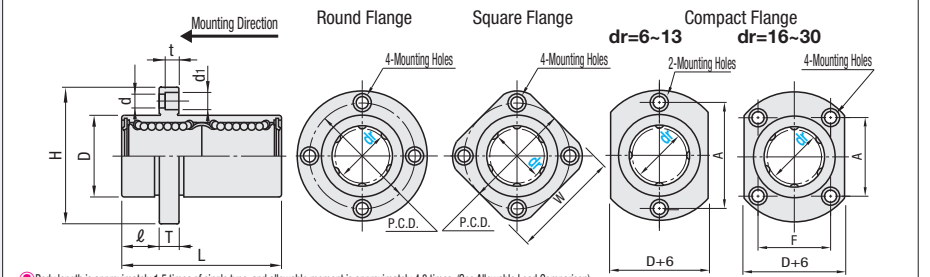
MISUMI Original

Medium, Pilot



RoHS10

Type			Outer Cylinder			Balls	Retainer	Ambient Operating Temp.	Accessory
Round Flange	Square Flange	Compact Flange	Material	Hardness	Surface Treatment	Material	Material		
LHIRD	LHISD	LHICD	SUJ2 Equivalent	58HRC~	-	SUJ2 Equivalent	Plastic (Duracon M90 Equivalent)	-20~80°C	Seal Material Nitrile Rubber (-20~120°C)



Body length is approximately 1.5 times of single type, and allowable moment is approximately 4.3 times. (See Allowable Load Comparison)
 For Piloted and Flanged Type application examples, see P307.

Part Number	Type	dr	D Tolerance		L	H	T	d	d1	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				
LHIRD LHISD LHICD	0	-0.010	6	12	0	29	5	28	5	3.5	6	3.1	20	22	-	20	0.015	4	0.015	226	310	1.42	27	21	24		
			8	15	-0.013	37	32	24	25	-	24	25	-	24						310	452	2.12	47	39	43		
			10	19			40	29	30	-	29										508	718	4.37	85	65	77	
			12	21	0	47	42	32	32	-	32										634	814	6.2	89	69	81	
			13	23	-0.016	56	43	33	34	-	33										640	826	6.2	109	87	102	
			16	28		65	48	38	37	22	31											1164	1448	13.1	157	132	149
			20	32	0	74	54	43	42	24	36											1554	2068	18.3	232	197	219
			25	40	-0.019	83	62	51	50	32	40											1725	3068	25.3	481	442	452
			30	45	-0.025	90	74	60	58	35	49											2440	3974	42.7	560	482	494

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

Features: Easy to assemble with bolt-on flanges. A load can be placed near the center of the bushing, evenly distributing the load and space.

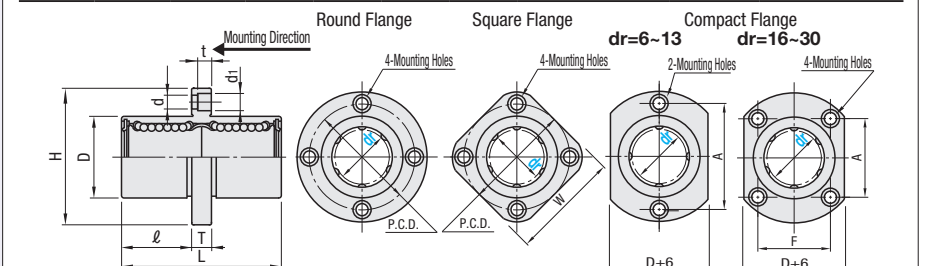
MISUMI Original

Medium, Center Flanged



RoHS10

Type			Outer Cylinder			Balls	Retainer	Ambient Operating Temp.	Accessory
Round Flange	Square Flange	Compact Flange	Material	Hardness	Surface Treatment	Material	Material		
LHMRD	LHMSD	LHMSD	SUJ2 Equivalent	58HRC~	-	SUJ2 Equivalent	Plastic (Duracon M90 Equivalent)	-20~80°C	Seal Material Nitrile Rubber (-20~120°C)



Body length is approximately 1.5 times of single type, and allowable moment is approximately 4.3 times. (See Allowable Load Comparison)
 For Center Flanged Type application examples, see P314.

Part Number	Type	dr	D Tolerance		L	H	T	d	d1	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				
LHMRD LHMSD LHMSD	0	-0.010	6	12	0	29	12	28	5	3.5	6	3.1	20	22	-	20	0.015	4	0.015	226	310	1.42	27	21	24		
			8	15	-0.013	37	16	32	24	25	-	24									310	452	2.12	47	39	43	
			10	19			20.5	42	6	4.5	7.5	4.1									508	718	4.37	85	65	77	
			12	21	0	47	43	33	34	-	33										634	814	6.2	89	69	81	
			13	23	-0.016	56	43	33	34	-	33										640	826	6.2	109	87	102	
			16	28		65	25	48	38	37	22	31										1164	1448	13.1	157	132	149
			20	32	0	74	28.5	54	43	42	24	36										1554	2068	18.3	232	197	219
			25	40	-0.019	83	37.5	62	51	50	32	40										1725	3068	25.3	481	442	452
			30	45	-0.025	90	40	74	60	58	35	49										2440	3974	42.7	560	482	494

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

Allowable Load Comparison

Type	Basic Dynamic Load Rating	Basic Static Load Rating	Allowable Static Moment
Short	0.7	0.6	Approx. 0.6
Single	1	1	1
Medium	1.4	1.3	Approx. 4.3
Double	1.6	2	Approx. 6
Medium Long	1.6	1.6	Approx. 10
Long	1.6	2	Approx. 21

* "1" represents Single Type for comparison.

dr	Unit Price					
	Medium, Pilot			Medium, Center Flanged		
	Round Flange	Square Flange	Compact Flange	Round Flange	Square Flange	Compact Flange
6	LHIRD	LHISD	LHICD	LHMRD	LHMSD	LHMSD
8						
10						
12						
13						
16						
20						
25						
30						

Ordering Example
 Part Number
 LHIRD12
 LHMSD16
 LHMSD12L (L Type Greased)
 LHMSD16G (G Type Greased)
 LHMSD20H (H Type Greased)
 Alternative grease types available.
 For Days to Ship, Price and Performance, see P304.