

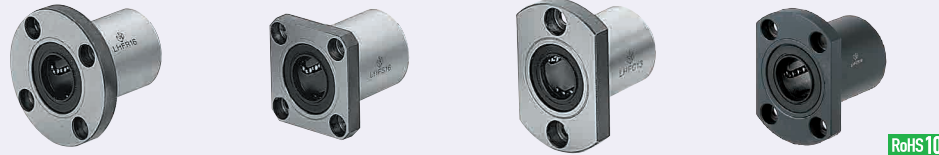
Flanged Linear Bushings

Single, Opposite Counterbored Hole

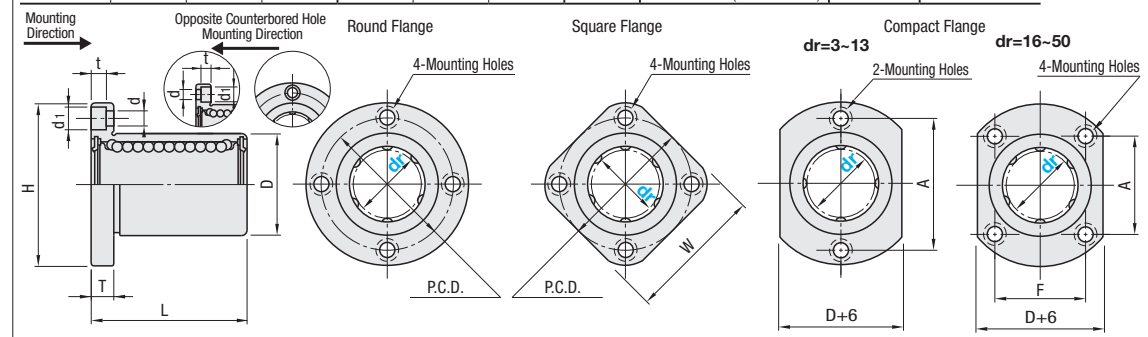
= For customers using industry standard products =
 The part enclosed in the red frame is as per industry standard specifications (Outer cylinder EN 1.3505 Equiv. equivalent, Retainer resin).
 Consider these specifications while selecting the product.

■ **Features:** Easy to assemble with bolt-on flanges.

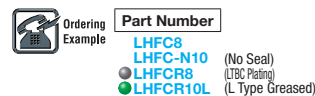
Industry Standard



Counterbored Holes	Type			Outer Cylinder			Balls	Retainer	Ambient	Accessory	
	Round Flange	Square Flange	Compact Flange	M Material	H Hardness	S Surface Treatment	M Material	M Material	Operating Temp.		
Opposite Counterbored	LHZR	LHZS	LHZC	EN 1.3505 Equiv.	58HRC~ Low Temperature Black Chrome Plating	-	EN 1.3505 Equiv.	Plastic (Duracon M90 Equiv.)	-20~ 80°C	Seal M Material Nitrile Rubber (-20~120°C)	
	LHFR-N No Seal	LHFS-N No Seal	LHFC-N No Seal					Stainless Steel (Stainless Steel)	-20~110°C		
LHFR	LHFS	LHFC	EN 1.4125 Equiv.				Electroless Nickel Plating	-	Plastic (Duracon M90 Equiv.)		-20~ 80°C
LHFRF	LHFSF	LHFCF							Stainless Steel (Stainless Steel)		-20~110°C
LHFRR	LHFSR	LHFCR							Plastic (Duracon M90 Equiv.)		-20~ 80°C
LHFRM	LHFSM	LHFCM							Stainless Steel (Stainless Steel)		-20~110°C
LHFRMF	LHFSMF	LHFCMF							Plastic (Duracon M90 Equiv.)		-20~ 80°C
SLHFR	SLHFS	SLHFC							Stainless Steel (Stainless Steel)		-20~120°C
SLHFRS	SLHFS S	SLHFC S									
Standard				EN 1.4125 Equiv.	56HRC~	-					

[illegible]

 For Precautions for Use, see  **P303**.  Select Height-adjusting Spacers for Flanged Bushings from  **P330**.
 No seal for dr=3 and 4, LHFR-N, LHFS-N and LHFC-N. Reversed counterbored type can be bolted from the reverse side.

$$\text{kgf} = \text{N} \times 0.101972$$
[illegible]

❗ For Features of LTBC Plating, see **P304**. Alternative grease types available. Alternative grease types available.

❗ For Days to Ship, Price and Performance, see **P304**.

Flanged Linear Bushings

Double, Opposite Counterbored Hole

= 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).

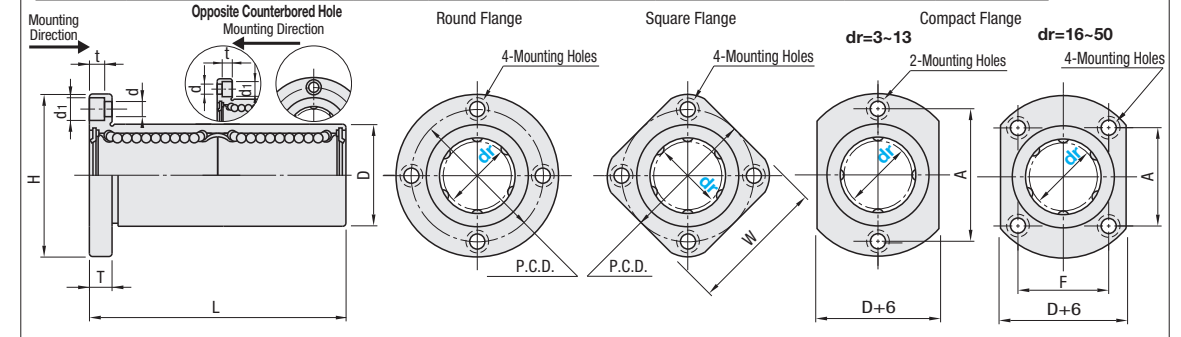
Consider these specifications while selecting the product.

■ **Features:** Easy to assemble with bolt-on flanges.

Industry Standard



Counterbored Holes	Type			Outer Cylinder			Balls	Retainer	Ambient	Accessory		
	Round Flange	Square Flange	Compact Flange	Material	Hardness	Surface Treatment	Material	Material	Operating Temp.			
Opposite Counterbored Hole	LHZRW	LHZSW	LHZCW	EN 1.3505 Equiv.	58HRC~	-	EN 1.3505 Equiv.	Plastic (Duracon M90 Equiv.)	-20~ 80°C	Seal M Material Nitrile Rubber (-20~120°C)		
Standard Type	LHFRW-N No Seal	LHFSW-N No Seal	LHFCW-N No Seal					Low Temperature Black Chrome Plating	EN 1.4125 Equiv.		Stainless Steel (Stainless Steel)	-20~110°C
	LHFRW	LHFSW	LHFCW								Plastic (Duracon M90 Equiv.)	-20~ 80°C
	LHFRWF	LHFSWF	LHFCWF					Electroless Nickel Plating	Stainless Steel (Stainless Steel)		-20~110°C	
	LHFRWR	LHFSWR	LHFCWR		Plastic (Duracon M90 Equiv.)	-20~ 80°C						
	LHFRWM	LHFSWM	LHFCWM		Stainless Steel (Stainless Steel)	-20~110°C						
	LHFRWMF	LHFSWMF	LHFCWMF		Plastic (Duracon M90 Equiv.)	-20~ 80°C						
	SLHFRW	SLHFSW	SLHFCW		EN 1.4125 Equiv.	56HRC~	-	Stainless Steel (Stainless Steel)	-20~120°C			
	SLHFRWS	SLHFSWS	SLHFCWS									



dr	D Tolerance				L	H	T	d	d1	t	P.C.D	W	F	A	Eccentricity	Rows of Balls	Perpendicularity	Basic Load Rating			Allowable Static Moment		Mass (g)					
	Tolerance	No Surface Treatment	Surface Treatment	Tolerance														C (dynamic)	N (static)	N (static)	Round Flange	Square Flange	Compact Flange					
3	0 -0.010	7	0	0	19	±0.3	19	3.5	2.5	4.5	2.1	13	15	-	13	0.010	4	0.010	138	210	0.51	8.7	7	7.7				
4		8	-0.011	-0.015	23		20					14	16	-	14				176	254	0.63	11	9	10				
5		10			28		25					17	20	-	17				263	412	1.38	24	20	21				
6		12	0	0	35		28					20	22	-	20				324	529	2.18	31	25	28				
8		15	-0.013	-0.018	45		32					24	25	-	24				431	784	4.31	51	43	47				
10		19			55		40					29	30	-	29				588	1100	7.24	98	78	90				
12		21	0	0	57		42					32	32	-	32				657	1200	10.9	110	90	102				
13		23	-0.016	-0.021	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		32	0	0	80		54					43	42	24	36				1400	2740	26.8	260	225	247				
25		-0.012	-0.019	-0.025	112		62					51	50	32	40				1560	3140	43.4	540	500	525				
30		45			123		74					60	58	35	49				2490	5490	82.8	680	590	645				
35		52	0	0	135		82					10	6.6	11	6.1				2650	6270	110	1020	930	945				
40		-0.015	-0.022	-0.030	151		96					78	75	45	64				3430	8040	147	1570	1380	1423				
50		80			192		116					13	9	14	8.1				98	92	56	80	6080	15900	397	3600	3400	3437

 For Precautions for Use, see  **P303**.  Select Height-adjusting Spacers for Flanged Bushings from  **P330**.
 No seal for dr=3 · 4, LHFRW-N · LHFSW-N · LHFCW-N. Reversed counterbored type can be bolted from the reverse side.

$$\text{kgf} = \text{N} \times 0.101972$$
[illegible]

- For Features of LTBC Plating, see **P304**.
Alternative grease types available.
- For Days to Ship, Price and Performance, see **P304**.