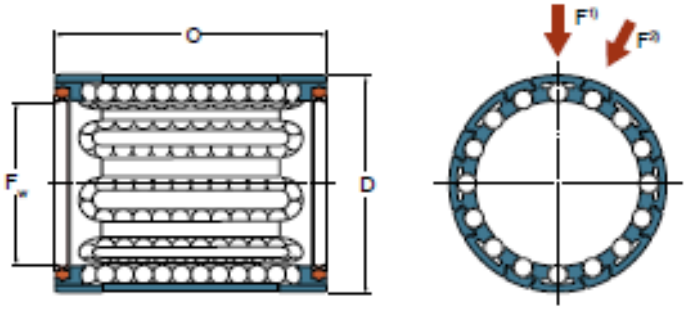
3.1.1 Compact linear ball bearings - LBBR

- Closed design

- Sizes from 3 mm to 50 mm
- Self-holding in appropriate housing [3]
- Factory pre-lubricated with SKF LGEP 2 grease [5]
- Lubricated for life under normal conditions
- Available in variants of 2 seals, 2 shields or seal and shield
- Available as bearing steel (standard) or stainless-steel variant
- Clearance or preload determined by shaft and housing bore tolerance

Pictured is LBBR 30-2LS



Picture shows LBBR with 2 double lip seals

Dimensions			No. of ball rows
F_w mm	D [3]	O	–
3	7	10	4
4	8	12	4
5	10	15	4
6	12	22 [4]	4
8	15	24	4
10	17	26	5
12	19	28	5
14	21	28	5
16	24	30	5
20	28	30	6
25	35	40	7
30	40	50	8
40	52	60	8
50	62	70	9

[1] Direction for max. static load ratings of all sizes and max. dynamic load ratings of sizes 3 to 20 and 50
[2] Direction for max. dynamic load ratings for size 25, 30, 40. For these 3 sizes, the directions of max. static and max. dynamic load ratings differ
[3] The linear ball bearing requires no additional axial fixation when fitted into a bore with tolerance J7 or J6
[4] Width 22 does not correspond to series 1 standards in ISO 10285
[5] Can be re-lubricated in appropriate housings

LBBR

Designations			Mass	Basic load ratings [1]			
with shields	with 2 double lip seals	with 1 double lip seal	–	dynamic C		static C_0	
				min [2]	max	min [2]	max
–			kg	N			
LBBR 3 [3]	LBBR 3-2LS [3]	LBBR 3-LS [3] [4]	0,0007	60	67	44	63
LBBR 4 [3]	LBBR 4-2LS [3]	LBBR 4-LS [3] [4]	0,001	75	85	60	85
LBBR 5 [3]	LBBR 5-2LS [3]	LBBR 5-LS [3] [4]	0,002	170	193	129	183
LBBR 6 A [4]	LBBR 6 A-2LS [4]	LBBR 6 A-LS [4] [4]	0,006	335	390	270	380
LBBR 8	LBBR 8-2LS	LBBR 8-LS [4]	0,007	490	560	355	500
LBBR 10	LBBR 10-2LS	LBBR 10-LS [4]	0,011	585	695	415	600
LBBR 12	LBBR 12-2LS	LBBR 12-LS [4]	0,012	695	815	510	750
LBBR 14	LBBR 14-2LS	LBBR 14-LS [4]	0,013	710	850	530	765
LBBR 16	LBBR 16-2LS	LBBR 16-LS [4]	0,018	930	1 100	630	915
LBBR 20	LBBR 20-2LS	LBBR 20-LS [4]	0,021	1 160	1 220	800	1 020
LBBR 25	LBBR 25-2LS	LBBR 25-LS [4]	0,047	2 080	2 120	1 560	1 800
LBBR 30	LBBR 30-2LS	LBBR 30-LS [4]	0,07	3 100	3 150	2 700	3 050
LBBR 40	LBBR 40-2LS	LBBR 40-LS [4]	0,13	5 400	5 500	4 500	5 000
LBBR 50	LBBR 50-2LS	LBBR 50-LS [4]	0,18	6 950	7 100	6 300	6 950

LBBR in stainless steel

Designations			Mass	Basic load ratings [1]			
with shields	with 2 double lip seals	with 1 double lip seal	–	dynamic C		static C_0	
				min [2]	max	min [2]	max
–			kg	N			
LBBR 3/HV6 [3]	LBBR 3-2LS/HV6 [3]	LBBR 3-LS/HV6 [3] [5]	0,0007	60	67	44	63
LBBR 4/HV6 [3]	LBBR 4-2LS/HV6 [3]	LBBR 4-LS/HV6 [3] [5]	0,001	75	85	60	85
LBBR 5/HV6 [3]	LBBR 5-2LS/HV6 [3]	LBBR 5-LS/HV6 [3] [5]	0,002	170	193	129	183
LBBR 6 A/HV6 [4]	LBBR 6 A-2LS/HV6 [4]	LBBR 6 A-LS/HV6 [4] [5]	0,006	335	390	270	380
LBBR 8/HV6	LBBR 8-2LS/HV6	LBBR 8-LS/HV6 [5]	0,007	490	560	355	500
LBBR 10/HV6	LBBR 10-2LS/HV6	LBBR 10-LS/HV6 [5]	0,011	585	695	415	600
LBBR 12/HV6	LBBR 12-2LS/HV6	LBBR 12-LS/HV6 [5]	0,012	695	815	510	750
LBBR 14/HV6	LBBR 14-2LS/HV6	LBBR 14-LS/HV6 [5]	0,013	710	850	530	765
LBBR 16/HV6	LBBR 16-2LS/HV6	LBBR 16-LS/HV6 [5]	0,018	930	1 100	630	915
LBBR 20/HV6	LBBR 20-2LS/HV6	LBBR 20-LS/HV6 [5]	0,021	1 160	1 220	800	1020
LBBR 25/HV6	LBBR 25-2LS/HV6	LBBR 25-LS/HV6 [5]	0,047	2 080	2 120	1 560	1 800
LBBR 30/HV6	LBBR 30-2LS/HV6	LBBR 30-LS/HV6 [5]	0,07	3 100	3 150	2 700	3 050
LBBR 40/HV6	LBBR 40-2LS/HV6	LBBR 40-LS/HV6 [5]	0,13	5 400	5 500	4 500	5 000
LBBR 50/HV6	LBBR 50-2LS/HV6	LBBR 50-LS/HV6 [5]	0,18	6 950	7 100	6 300	6 950

Items without letter footnote are usually available from stock.

[1] Delivery time on request

[2] Delivery time usually 10 days for max. quantity of 4; larger quantities on request

[3] Basic load ratings are valid for bearing steel and stainless steel variants, but they must be reduced if stainless steel shafts are used

[4] To be used if mounted randomly and the direction of max. load rating and the main load are not aligned

[5] Delivered and packaged in units of 4 (always suffix -C004) preserved bearings which need lubrication before mounting

[6] Factory pre-lubricated with lubricant Klueber Paraliq P460