

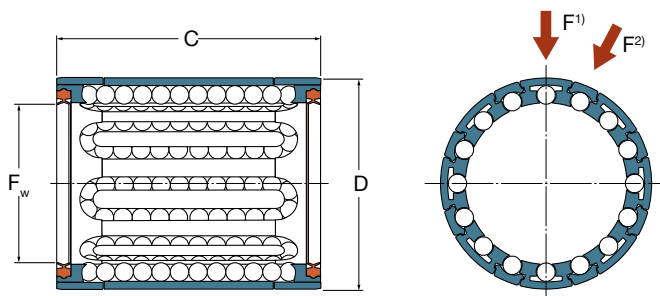
3.1.1 Compact linear ball bearings - LBBR

- 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⁾	C	—
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 min ²⁾ N	max	static C ₀ min ²⁾	max
–			kg				
LBBR 3 ³⁾	LBBR 3-2LS ³⁾	LBBR 3-LS ^{3) s)}	0,0007	60	67	44	63
LBBR 4 ³⁾	LBBR 4-2LS ³⁾	LBBR 4-LS ^{3) s)}	0,001	75	85	60	85
LBBR 5 ³⁾	LBBR 5-2LS ³⁾	LBBR 5-LS ^{3) s)}	0,002	170	193	129	183
LBBR 6 A ⁴⁾	LBBR 6 A-2LS ⁴⁾	LBBR 6 A-LS ^{4) s)}	0,006	335	390	270	380
LBBR 8	LBBR 8-2LS	LBBR 8-LS ^{s)}	0,007	490	560	355	500
LBBR 10	LBBR 10-2LS	LBBR 10-LS ^{s)}	0,011	585	695	415	600
LBBR 12	LBBR 12-2LS	LBBR 12-LS ^{s)}	0,012	695	815	510	750
LBBR 14	LBBR 14-2LS	LBBR 14-LS ^{s)}	0,013	710	850	530	765
LBBR 16	LBBR 16-2LS	LBBR 16-LS ^{s)}	0,018	930	1 100	630	915
LBBR 20	LBBR 20-2LS	LBBR 20-LS ^{s)}	0,021	1 160	1 220	800	1 020
LBBR 25	LBBR 25-2LS	LBBR 25-LS ^{s)}	0,047	2 080	2 120	1 560	1 800
LBBR 30	LBBR 30-2LS	LBBR 30-LS ^{s)}	0,07	3 100	3 150	2 700	3 050
LBBR 40	LBBR 40-2LS	LBBR 40-LS ^{s)}	0,13	5 400	5 500	4 500	5 000
LBBR 50	LBBR 50-2LS	LBBR 50-LS ^{s)}	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 min ²⁾ N	max	static C ₀ min ²⁾	max
–			kg				
LBBR 3/HV6 ³⁾	LBBR 3-2LS/HV6 ³⁾	LBBR 3-LS/HV6 ^{3) n)}	0,0007	60	67	44	63
LBBR 4/HV6 ³⁾	LBBR 4-2LS/HV6 ³⁾	LBBR 4-LS/HV6 ^{3) n)}	0,001	75	85	60	85
LBBR 5/HV6 ³⁾	LBBR 5-2LS/HV6 ³⁾	LBBR 5-LS/HV6 ^{3) n)}	0,002	170	193	129	183
LBBR 6 A/HV6 ⁴⁾	LBBR 6 A-2LS/HV6 ⁴⁾	LBBR 6 A-LS/HV6 ^{4) n)}	0,006	335	390	270	380
LBBR 8/HV6	LBBR 8-2LS/HV6	LBBR 8-LS/HV6 ⁿ⁾	0,007	490	560	355	500
LBBR 10/HV6	LBBR 10-2LS/HV6	LBBR 10-LS/HV6 ⁿ⁾	0,011	585	695	415	600
LBBR 12/HV6	LBBR 12-2LS/HV6	LBBR 12-LS/HV6 ⁿ⁾	0,012	695	815	510	750
LBBR 14/HV6	LBBR 14-2LS/HV6	LBBR 14-LS/HV6 ⁿ⁾	0,013	710	850	530	765
LBBR 16/HV6	LBBR 16-2LS/HV6	LBBR 16-LS/HV6 ⁿ⁾	0,018	930	1 100	630	915
LBBR 20/HV6	LBBR 20-2LS/HV6	LBBR 20-LS/HV6 ⁿ⁾	0,021	1 160	1 220	800	1020
LBBR 25/HV6	LBBR 25-2LS/HV6	LBBR 25-LS/HV6 ⁿ⁾	0,047	2 080	2 120	1 560	1 800
LBBR 30/HV6	LBBR 30-2LS/HV6	LBBR 30-LS/HV6 ⁿ⁾	0,07	3 100	3 150	2 700	3 050
LBBR 40/HV6	LBBR 40-2LS/HV6	LBBR 40-LS/HV6 ⁿ⁾	0,13	5 400	5 500	4 500	5 000
LBBR 50/HV6	LBBR 50-2LS/HV6	LBBR 50-LS/HV6 ⁿ⁾	0,18	6 950	7 100	6 300	6 950

Items without letter footnote are usually available from stock.

ⁿ⁾ Delivery time on request

^{s)} Delivery time usually 10 days for max. quantity of 4; larger quantities on request

¹⁾ Basic load ratings are valid for bearing steel and stainless steel variants, but they must be reduced if stainless steel shafts are used

²⁾ To be used if mounted randomly and the direction of max. load rating and the main load are not aligned

³⁾ Delivered and packaged in units of 4 (always suffix - C004) preserved bearings which need lubrication before mounting

⁴⁾ Factory pre-lubricated with lubricant Klüber Paraliq P460