

Rod End Coupling Rods

Both Ends Threaded

Rod End Coupling Rods

Both Ends Tapped / One End Threaded, One End Tapped

When assembling rod end bearings, please use PMC (Fine Thread) alteration as required.

Both Ends Threaded

Type	M Material	S Surface Treatment	A Accessory
L Configurable	EN 1.1191 Equiv.	Black Oxide	Hex Nut (Right/Left-hand thread 1 pc. each)
L and F Configurable	EN 1.1191 Equiv.	Electroless Nickel Plating	M Material S Surface Treatment
L Configurable Compact	EN 1.4301 Equiv.	-	EN 1.0038 Equiv. Trivalent Bright Chromate

L Configurable
L and F Configurable
L Configurable Compact

⚠ L Configurable Compact Type has an identification hole on the end surface of its left-hand thread.

Both Ends Threaded, L Configurable

Part Number	M (Coarse)	L 1mm Increment	L1	l	B	C	Unit Price																
							LBRBF (Black Oxide)			LBRFN (Electroless Nickel Plating)			SLBRFN (EN 1.4301 Equiv.)										
Type							Min. L ~200	L201 ~400	L401 ~600	L601 ~800	L801 ~1000	Min. L ~200	L201 ~400	L401 ~600	L601 ~800	L801 ~1000	Min. L ~200	L201 ~400	L401 ~600	L601 ~800	L801 ~1000		
3	3	25-39	8	7	6	6.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	4	40-300	15	14	7	8.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	5	35-49	12	10	7	8.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	6	50-400	20	18	8	9.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	8	40-59	13	11	8	9.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	10	60-600	25	23	10	11.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	12	50-69	17	15	10	11.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	14	70-600	30	28	11	11.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	16	60-89	23	20	13	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	18	90-1000	40	37	15	19.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	20	70-109	28	25	17	19.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	22	110-1000	50	47	19	21.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	24	80-129	33	30	19	21.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	26	130-1000	60	56	21	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	28	130-1000	80	76	24	27.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	30	170-1000	80	76	27	31.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	32	170-1000	80	76	30	34.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	34	170-1000	80	76	32	36.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Both Ends Threaded, L and F Configurable

Part Number	M (Coarse)	L 1mm Increment	F 1mm Increment	A	B	C	E min	Unit Price															
								LBRBF (Black Oxide)			LBRFN (Electroless Nickel Plating)			SLBRFN (EN 1.4301 Equiv.)									
Type								Min. L ~200	L201 ~400	L401 ~600	L601 ~800	L801 ~1000	Min. L ~200	L201 ~400	L401 ~600	L601 ~800	L801 ~1000	Min. L ~200	L201 ~400	L401 ~600	L601 ~800	L801 ~1000	
3	3	19-300	5-15	1.5	6	6.9	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	4	22-400	6-20	1.5	7	8.1	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	5	25-600	7-25	1.5	8	9.2	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	6	32-800	9-30	2.5	10	11.5	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	8	38-1000	12-40	2.5	13	15	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	10	44-1000	15-50	2.5	17	19.6	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	12	54-1000	18-60	3.0	19	21.9	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	14	60-1000	21-70	3.0	21	24	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	16	66-1000	24-80	3.0	24	27.7	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	18	72-1000	27-90	4.0	27	31.2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	20	85-1000	30-100	4.0	30	34.6	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	22	91-1000	33-110	5.0	32	36.9	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Both Ends Threaded, L Configurable Compact

Part Number	M (Coarse)	L 1mm Increment	l	E	B	C	Unit Price		
							Min. L ~100	L101 ~200	L201 ~300
3	3	20-39	7	3	2.5	2.9	-	-	-
4	4	40-100	17	4	3	3.4	-	-	-
5	5	30-59	10	6	4	4.6	-	-	-
6	6	60-150	25	6	5	5.8	-	-	-
8	8	30-59	10	6	5	5.8	-	-	-
10	10	90-150	25	8	6	6.9	-	-	-
12	12	50-89	18	8	6	6.9	-	-	-
14	14	90-150	38	8	6	6.9	-	-	-
16	16	50-89	18	8	8	9.2	-	-	-
18	18	90-150	38	10	10	11.6	-	-	-
20	20	60-129	22	10	10	11.6	-	-	-
22	22	130-200	56	10	13	15	-	-	-
24	24	75-169	28	10	13	15	-	-	-
26	26	170-300	76	10	13	15	-	-	-

When assembling rod end bearings, check M-Pitch.

Ordering Example: Part Number - L - F
 SLBRFN8 - 225
 SLBRFN5 - 275 - 20

L ≥ 2F + Emin. When assembling rod end bearings, check M-Pitch.

Alterations

Part Number - L - F - (RLC, PMC, PC, QC)
 LBRBF5 - 100 - 10 - QC

Not applicable to LBRSM and SLBR5.

Alterations	Code	Spec.
PMC (Fine)	PMC	Changes both threads to fine threads. Alteration is available for M10, 14, 18, 20 and 22 only. Ordering Code: PMC
PC Left-hand Thread, QC Right-hand Thread	PC QC	Adds an undercut to A part. Ordering Code: PC Applicable to LBRBF, LBRFN, SLBRFN only.

Both Ends Tapped

Type	M Material	S Surface Treatment	A Accessory
LMBBF	EN 1.1191 Equiv.	Black Oxide	Hex Nut (Right/Left-hand thread 1 pc. each)
LBMFN	EN 1.1191 Equiv.	Electroless Nickel Plating	M Material S Surface Treatment
SLBMFN	EN 1.4301 Equiv.	-	EN 1.0038 Equiv. Trivalent Bright Chromate

⚠ Included Nut: JIS Grade I

Both Ends Tapped

Part Number	M (Coarse)	L 1mm Increment	l	B	C	Unit Price																
						LMBBF (Black Oxide)			LBMFN (Electroless Nickel Plating)			SLBMFN (EN 1.4301 Equiv.)										
Type						Min. L ~200	L201 ~400	L401 ~600	L601 ~800	L801 ~1000	Min. L ~200	L201 ~400	L401 ~600	L601 ~800	L801 ~1000	Min. L ~200	L201 ~400	L401 ~600	L601 ~800	L801 ~1000		
3	3	20-300	9	6	6.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	4	30-400	12	7	8.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	5	40-600	16	8	9.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	6	50-600	18	10	11.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	8	60-1000	24	13	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	10	70-1000	30	17	19.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	12	80-1000	36	19	21.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	14	80-1000	36	21	24.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	16	100-1000	48	24	27.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	18	120-1000	56	27	31.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	20	130-1000	60	30	34.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	22	140-1000	66	32	36.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SLBMFN is available for M3 - 18 only.

One End Threaded One End Tapped

Type	M Material	S Surface Treatment	A Accessory
LBGBF	EN 1.1191 Equiv.	Black Oxide	Hex Nut (Right/Left-hand thread 1 pc. each)
LBGF	EN 1.1191 Equiv.	Electroless Nickel Plating	M Material S Surface Treatment
SLBGF	EN 1.4301 Equiv.	-	EN 1.0038 Equiv. Trivalent Bright Chromate

⚠ Included Nut: JIS Grade I

One End Threaded One End Tapped

Part Number	M (Coarse)	L 1mm Increment	L1	l	l1	B	C	Unit Price															
								LBGBF (Black Oxide)			LBGF (Electroless Nickel Plating)			SLBGF (EN 1.4301 Equiv.)									
Type								Min. L ~200	L201 ~400	L401 ~600	L601 ~800	L801 ~1000	Min. L ~200	L201 ~400	L401 ~600	L601 ~800	L801 ~1000	Min. L ~200	L201 ~400	L401 ~600	L601 ~800	L801 ~1000	
3	3	40-300	15	14	9	6	6.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	4	50-400	20	18	12	7	8.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	5	60-600	25	23	16	8	9.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	6	70-600	30	28	18	10	11.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	8	90-1000	40	37	24	13	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	10	110-1000	50	47	30	17	19.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	12	130-1000	60	56	36	19	21.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	14	130-1000	60	56	36	21	24.1	-															