



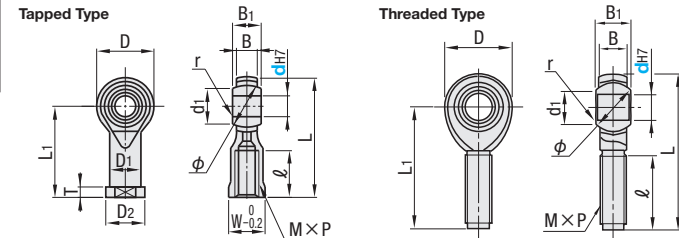
Rod End Bearings (Stainless Steel Oil Free)

- Standard and Short Types -

* Those are the successors of PHSS, PHSSM, PHSSL and PHSSLM. Changed are shown in purple color.



Type	Standard Type				L Short Type				Material		
	Tapped Type		Threaded Type		Tapped Type		Threaded Type		Holder	Spherical Inner Ring	Bushing (Liner)
	Right-Hand Thread	Left-Hand Thread	Right-Hand Thread	Left-Hand Thread	Right-Hand Thread	Left-Hand Thread	Right-Hand Thread	Left-Hand Thread			
Stainless Steel Oil Free	PHSSM	PHSSLM	PHSOSM	PHSOSLM	PHSSNM	PHSSLNM	PHSOSNM	-	303 Stainless Steel	440C Stainless Steel (SRRC or more)	Polytetrafluoroethylene



- B/B1 Dimensional Tolerance Unit: (mm)
B: 0/-0.1, B1: 0/-0.1
- Applicable Shaft Fit
Shaft fit tolerance is h7.
- Initial Tightening Torque
0.02 - 0.34 Nm

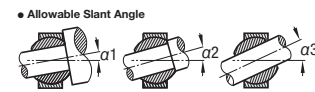
- ① The surface cut on L Short Type has machined R and the surface is not even for seating flat on surface.
- ② The thread end of L Short Type has no surface treatment.
- ③ The above drawing is for standard type. L Short Type has no T Dimension and W Dimension parts.

Part Number Type	d	D	D1	D2	L		L1		MxP	ℓ		B	B1	T	W	d1	r	Static Load Capacity Radial Cs (kN)	Mass (g)
					Standard	Short	Standard	Short		Standard	Short								
Standard Tapped Type	5	16	9	11	35	28	27	20	M5x0.8	12	7	6	8	4	9	7.7	0.3	0.98	15
	6	18	10	13	39	35	30	26	M6x1.0	14	10	6.7	9	5	11	8.9	0.3	1.44	21
Right-Hand Thread PHSSM PHSSNM	8	22	12.5	16	47	42	36	31	M8x1.25	17	12	9	12	6.5	14	10.4	0.5	2.69	38
	10	26	15	19	56	49	43	36	M10x1.5	21	14	11	14	6.5	17	12.9	0.5	4.16	64
Left-Hand Thread PHSSLM PHSSLNM	12	30	17.5	22	65	59	50	44	M12x1.75	24	18	12	16	8	19	15.4	0.7	5.88	95
	14	34	20	25	74	66	57	49	M14x2.0	27	19	14	19	8	22	16.8	0.7	6.61	140
Left-Hand Thread PHSSLM PHSSLNM	16	38	22	27	83	70	64	51	M16x2.0	33	20	15	21	10	27	19.3	0.7	8.33	185
	18A	42	25	31	92	81	71	60	M18x1.5	36	25	17	23	10	27	21.8	0.7	11.52	330

kgf=Nx0.101972

Part Number Type	d	D	L		L1		MxP	ℓ		B	B1	d1	r	Static Load Capacity Radial Cs (kN)	Mass (g)
			Standard	Short	Standard	Short		Standard	Short						
Standard Tapped Type	5	16	41	28	33	20	M5x0.8	20	7	6	8	7.7	0.3	0.98	10
	6	18	45	33	36	24	M6x1.0	22	10	6.7	9	8.9	0.3	1.44	15
Right-Hand Thread PHSOSM PHSOSNM	8	22	53	40	42	29	M8x1.25	25	12	9	12	10.4	0.5	2.69	30
	10	26	61	46	48	33	M10x1.5	29	14	11	14	12.9	0.5	4.16	50
Left-Hand Thread PHSOSLM	12	30	69	54	54	39	M12x1.75	33	18	12	16	15.4	0.5	5.88	75
	14	34	77	60	60	43	M14x2.0	36	19	14	19	16.8	0.7	6.61	113
Left-Hand Thread PHSOSLM	16	38	85	65	66	46	M16x2.0	40	20	15	21	19.3	0.7	8.33	165
	18A	42	93	74	72	53	M18x1.5	44	25	17	23	21.8	0.7	11.52	225

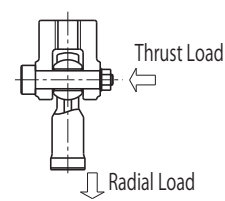
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Shaft Step Shape	Shaft Condition	Allowable Slant Angle α
Large	Stepped part of the shaft contacts the outer circumference of the holder	Small(α1)
Medium	Stepped part of the shaft contacts the side or the inner circumference of the holder	Middle(α2)
No	Shaft contacts the inner circumference of the holder	Large(α3)

d	Ball Dia. Ø (mm)	α3
5	11.11	12
6	12.70	10
8	15.88	12
10	19.05	12
12	22.22	12
14	25.40	14
16	28.58	15
18	31.75	15

• Attention in Assembly Process



① Rod end bearing cannot take thrust load.

Part Number Example: PHSSM5