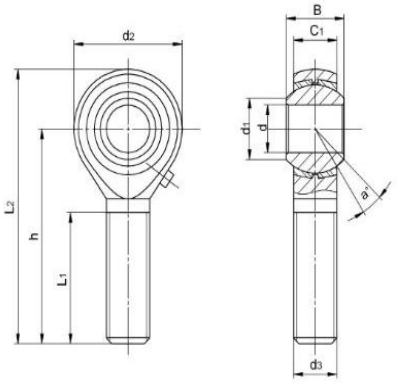
A rod end bearing, also known as a heim joint (N. America) or rose joint (U.K. and elsewhere), is a mechanical articulating joint. Such joints are used on the ends of control rods, steering links,tie rods, or anywhere a precision articulating joint is required, and where a clevis end (which requires perfect 90 degree alignment between the attached shaft and the second component) is unsuitable. A ball swivel with an opening through which a bolt or other attaching hardware may pass is pressed into a circular casing with a threaded shaft attached. The threaded portion may be either male or female.
The heim joint's advantage is that the ball insert permits the rod or bolt passing through it to be misaligned to a limited degree (an angle other than 90 degrees).
A link terminated in two heim joints permits misalignment of their attached shafts (viz., other than 180 degrees) when used in tension. When used in compression, the through-rods are forced to the extreme ends of their ball's misalignment range, which cocks the link at an oblique angle.

Rod end bearing:POSB Series

Ball: Gcr15 Steel, heat treated, HRC56 min; Precision ground,polished,hard chromium plated
Body: Carbon steel, Zinc plated, chromate treated
Race: Brass
Sliding contact surfaces: Steel/Brass



Motion(shanghai)Industrial Development Co.,Ltd

Part No.	Dimensions(mm)									Ball dia	a° mis. angle	Load Ratings (KN)		weight ≈kg
	d +0.038 -0 012	B	C1	d1	d2	d3 UNF-2A	h	L1	L2			Cr	Cor	
POSB3	4.826	7.92	6.35	7.77	15.88	10-32	31.75	19.05	39.69	11.11	10	2.8	3.8	0.013
POSB4	6.35	9.53	7.14	9.02	19.05	1/4-28	39.67	25.4	49.2	12.7	13	4.8	6.4	0.022
POSB5	7.938	11.1	8.74	11.35	22.23	5/16-24	47.63	31.75	58.75	15.87	10	5.9	8.7	0.037
POSB6	9.525	12.7	10.31	13.13	25.4	3/8-24	49.22	31.75	61.92	18.26	9	8.2	12.4	0.055
POSB7	11.11	14.27	11.1	14.88	28.58	7/16-20	53.98	34.93	68.27	20.62	11	10	17	0.078
POSB8	12.7	15.88	12.7	17.73	33.32	1/2-20	61.92	38.1	78.58	23.8	9	15	23.4	0.12
POSB10	15.88	19.05	14.27	21.31	38.1	5/8-18	66.68	41.28	85.73	28.57	11	18	26.7	0.18
POSB12	19.05	22.23	17.45	24.84	44.45	3/4-16	73.02	44.45	95.25	33.33	10	27	36.6	0.29
POSB16	25.4	34 93	25.4	32.23	69 85	1-1/4-12	104 78	53.98	139 7	47.62	14	60	101	1.1

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