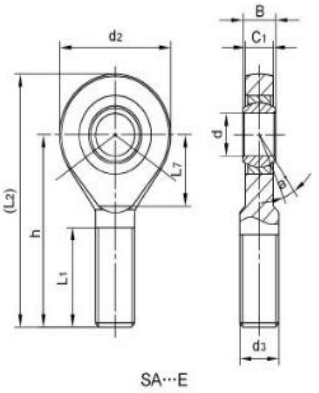
A rod end bearing, also known as a heim joint (N. America) or rose joint (U.K. and elsewhere), is a mechanical articulating joint. Such joints are used on the ends of control rods, steering links,tie rods, or anywhere a precision articulating joint is required, and where a clevis end (which requires 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:SI-E Series

Body: Carbon steel, Zinc plated, chromate treated
SA..E: Mounted with GE..E type of radial spherical plain bearings
Sliding contact surfaces: Steel/Steel



Motion(shanghai)Industrial Development Co.,Ltd

Part No.	Dimensions(mm)													Ball dia	a° mis. angle	Load (KN)		Weight ≈ kg
	d	B	C1	d2	d3-6H	h1	L3	(L4)	L5	L7	d4	d5	w			Cr	Cor	
SI5E	5	6	4.5	21	M5	30	11	40.5	5	11.5	11	13	11	10	13	3.4	8.1	0.021
SI6E	6	6	4.5	21	M6	30	11	40.5	5	11.5	11	13	11	10	13	3.4	8.1	0.021
SI8E	8	8	6.5	24	M8	36	15	48	5	13	13	16	13	13	15	5.5	12.9	0.039
SI10E	10	9	7.5	29	M10	43	20	57.5	6.5	15	16	19	16	16	12	8.1	17.6	0.061
SI12E	12	10	8.5	34	M12	50	22	67	7	18	18	22	19	18	10	10	24.5	0.096

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