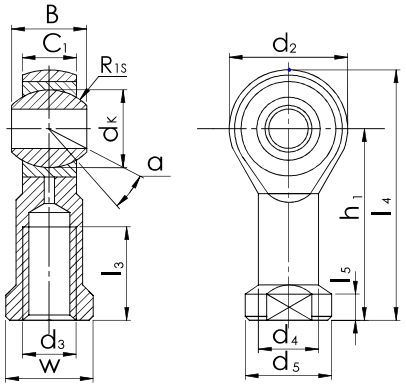
Subject	Symbol	Description
Type	SI	Rod end, right-hand thread.
	SIL	Rod end, left-hand thread.
	SA	Rod end, right-hand thread.
	SAL	Rod end, left-hand thread.
Friction parts	T/K	Steel/PTFE (wrap for smaller bearings and soaked fabric for bigger bearings).
	SS/M	Acid resistant steel/brass.

Features

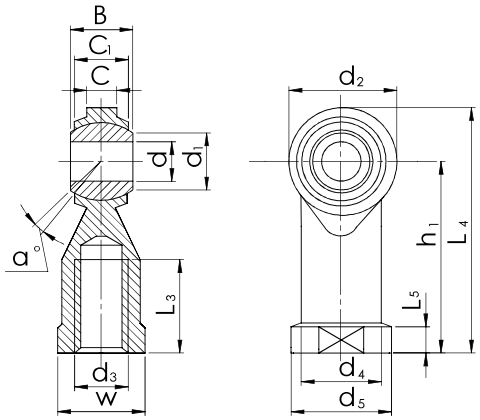
A rod end bearing is a mechanical articulating joint. Such joints are used on the ends of control rods, steering links, tie rods or anywhere a precision articulating joint is required. A ball swivel with an opening through which a bolt or other attaching hardware may pass is pressed into a circular casing with a threaded shaft attached. The threaded portion may be either male or female. Rod ends has spherical plain bearing inserted.

Designation

Rod ends with built-in plain bearings are ready to mount parts and can be quickly and easily fixed to the interacting machine elements. The wide variety of engineering solutions are based on the one hand on implementing various plain bearings (various materials of friction parts) and on the other hand on various assembly options (internal or external threads, right or left hand threads) enable lots of construction solutions. Standard make (TK) bases on the friction pair steel/PTFE . For heavy duty operation SS/M rod ends are most suitable, where special acid resistant steel and brass constitute the friction part.



SI...T



SI...P

ISO	Dimensions (mm)														Basic Load Ratings (N)		Weight (kg)
	d	d_3	B	C_1	l_3	W	d_2	h_1	l_4	l_5	d_4	d_5	d_k	R_{1s}	a		
		6H			min										≈	Dyn. C	Stat. Cg	
SI/SIL5 T/K	5	M5x0,8	8	6	10	9	18	27	36	4	8,5	11	11,11	0,3	13	5700	6000	0,016
SI/SIL6 T/K	6	M6x1,0	9	6,75	12	11	20	30	40	5	10	13	12,7	0,3	13	7200	7650	0,022
SI/SIL8 T/K	8	M8x1,25	12	9	16	14	24	36	48	5	12,5	16	15,875	0,3	14	11600	12900	0,047
SI/SIL10 T/K	10	M10x1,5	14	10,5	20	17	28	43	57	6,5	15	19	19,05	0,3	13	14500	18000	0,077
SI/SIL10-1 T/K	10	M10x1,25	14	10,5	20	17	28	43	57	6,5	15	19	19,05	0,3	13	14500	18000	0,077
SI/SIL12 T/K	12	M12x1,75	16	12	22	19	32	50	66	6,5	17,5	22	22,225	0,3	13	17000	24000	0,100
SI/SIL12-1 T/K	12	M12x1,25	16	12	22	19	32	50	66	6,5	17,5	22	22,225	0,3	13	17000	24000	0,100
SI/SIL14 T/K	14	M14x2,0	19	13,5	25	22	36	57	75	8	20	25	25,4	0,3	16	24000	31000	0,160
SI/SIL14-1 T/K	14	M14x1,5	19	13,5	25	22	36	57	75	8	20	25	25,4	0,3	16	24000	31000	0,160
SI/SIL16 T/K	16	M16x2,0	21	15	28	22	42	64	85	8	22	27	28,575	0,3	15	28500	39000	0,220
SI/SIL16-1 T/K	16	M16x1,5	21	15	28	22	42	64	85	8	22	27	28,575	0,3	15	28500	39000	0,220
SI/SIL18 T/K	18	M18x1,5	23	16,5	32	27	44	71	93	10	25	31	31,75	0,6	15	42500	47500	0,320
SI/SIL20 T/K	20	M20x1,5	25	18	33	30	50	77	102	10	27,5	34	34,925	0,6	14	42500	57000	0,420
SI/SIL22 T/K	22	M22x1,5	28	20	37	32	54	84	111	12	30	38	38,1	0,6	15	57000	68000	0,540
SI/SIL25 T/K	25	M24x2,0	31	22	42	36	60	94	124	12	33,5	42	42,86	0,3	15	68000	85000	0,720
SI/SIL28 T/K	28	M27x2,0	35	24	51	41	66	103	136	14	37	46	47,63	0,6	15	86000	107000	0,820
SI/SIL30 T/K	30	M30x2,0	37	25	51	41	70	110	145	15	40	50	50,8	0,6	17	88000	114000	1,100
SI/SIL30-1 T/K	30	M27x2,0	37	25	51	41	70	110	145	15	40	50	50,8	0,6	17	88000	114000	1,100
SI/SIL35 T/K	35	M36x2,0	43	28	56	50	81	125	165,5	17	46	58	57,15	0,6	16	94000	118000	1,600
SI/SIL40 T/K	40	M42x2,0	49	33	60	55	91	142	187,5	19	53	65	66,67	0,6	16	100000	120000	2,400
SI/SIL50 T/K	50	M48x2,0	60	45	65	65	117	160	218,5	23	65	75	82,5	0,6	12	112000	125000	5,000

ISO	Dimensions (mm)														Basic Load Ratings (N)		Weight (kg)
	d	d_1	d_3	B	C_1	L_3	W	d_2	h_1	L_4	l_5	d_4	d_5	a			
			7H			min								≈	Dyn. C	Stat. Cg	
SI/SIL5 P/K	5	7,7	M5x0,8	8	6	10	9	19	27	36,5	4	9	11	12	5700	6000	0,0180
SI/SIL6 P/K	6	8,9	M6x1,0	9	6,7	12	11	21	30	40,5	5	10	13	11	7200	7650	0,0260
SI/SIL8 P/K	8	10,3	M8x1,25	12	9	16	14	25	36	48,5	5	12,5	16	12	11600	12900	0,0470
SI/SIL10 P/K	10	12,9	M10x1,5	14	11	20	17	29	43	57,5	6,5	15	19	12	14500	18000	0,0770
SI/SIL10-1 P/K	10	12,9	M10x1,25	14	11	20	17	29	43	57,5	6,5	15	19	12	14500	18000	0,0770
SI/SIL12 P/K	12	15,4	M12x1,75	16	12	22	19	33	50	66,5	6,5	17,5	22	13	17000	24000	0,1000
SI/SIL12-1 P/K	12	15,4	M12x1,25	16	12	22	19	33	50	66,5	6,5	17,5	22	13	17000	24000	0,1000
SI/SIL14 P/K	14	16,8	M14x2,0	19	14	25	22	37	57	75,5	8	20	25	14	24000	31000	0,1600
SI/SIL16 P/K	16	19,3	M16x2,0	21	15	28	22	43	64	85,5	8	22	27	14	28500	39000	0,2200
SI/SIL16-1 P/K	16	19,3	M16x1,5	21	15	28	22	43	64	85,5	8	22	27	14	28500	39000	0,2200
SI/SIL18 P/K	18	21,8	M18x1,5	23	17	32	27	47	71	94,5	10	25	31	14	42500	47500	0,3200
SI/SIL20 P/K	20	24,3	M20x1,5	25	18	33	30	51	77	102,5	10	27,5	34	14	42500	57000	0,4200
SI/SIL22 P/K	22	25,8	M22x1,5	28	20	37	32	55	84	111,5	12	30	38	15	57000	68000	0,5400
SI/SIL25 P/K	25	29,5	M24x2,0	31	22	42	36	61	94	124,5	12	33,5	42	15	68000	85000	0,7200