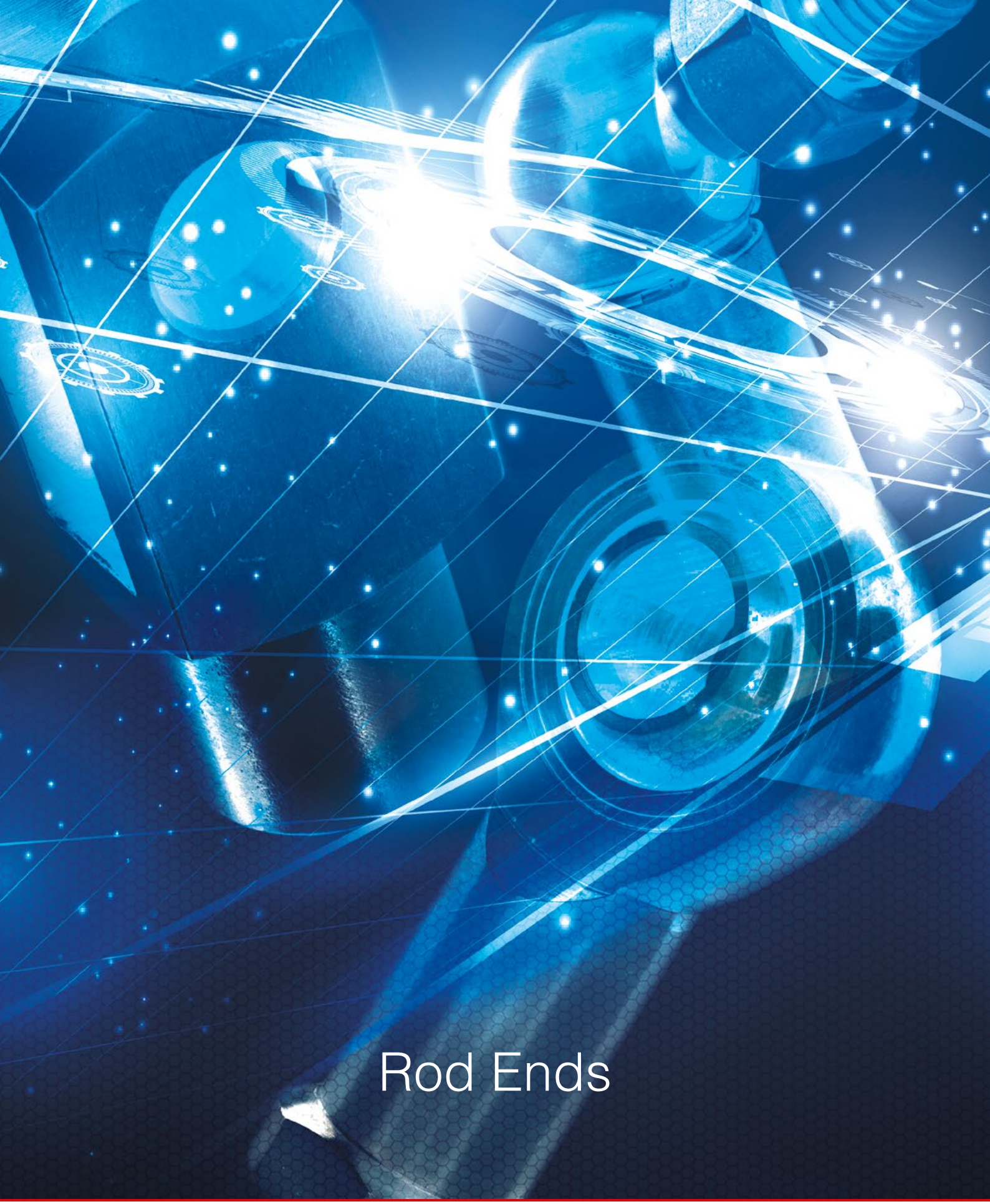


Rod Ends

Industrievertretung Miebach GmbH
Tel. 02206 1424 · info@iv-miebach.de · www.iv-miebach.de

BÖNNEKAMP
MECHANICAL COMPONENTS

www.bonnekamp.eu.com

BÖNNEKAMP

Bönnekamp is a very well-known brand with a strong market share owned by ATB Automation.

More than 30 years of high quality mechanical components have been applied in various (OEM) industries.
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Your inquiry will be processed with the utmost care to offer a perfect solution.

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Rod Ends

Rod Ends SI 04
Maintenance-free

Rod Ends SA 05
Maintenance-free

Rod Ends PHS 06
Maintenance required

Rod Ends POS 07
Maintenance required

Rod Ends SI-E(S), SI-ES 2RS 08
Maintenance required

Rod Ends SA-E(S), SA-ES 2RS 09
Maintenance required

Rod Ends GIR..UK, GIR..UK 2RS 10
Maintenance- free

Rod Ends GAR..UK, GAR..UK 2RS 11
Maintenance-free

Rod Ends SI-N 12
High loaded injection

Rod Ends SA-N 13
High loaded injection

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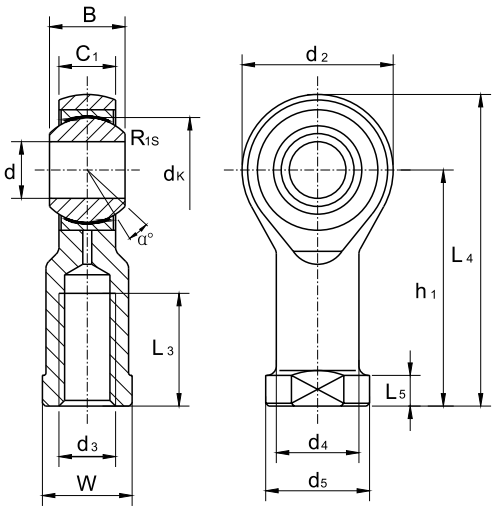


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Rod Ends - SI

MAINTENANCE-FREE | AVAILABLE ► ZINC PLATED | SS 304 | SS 316





Part No.	Dimensions (mm)														Load ratings (KN)		Weight (kg)
	d	d_3 6H	B	C_1	W	h_1	d_2	L_4	L_5	d_4	d_5	d_k	L_3 -2	α ≈	C	C_0	Kg≈
SI 5	5	M5 × 0.8	8	6	9	27	18	36	4	8.5	11	11.11	10	13	5.70	6.00	0.016
SI 6	6	M6 × 1.0	9	6.75	11	30	20	40	5	10	13	12.70	12	13	7.20	7.65	0.022
SI 8	8	M8 × 1.25	12	9	14	36	24	48	5	12.5	16	15.875	16	14	11.6	12.9	0.047
SI 10	10	M10 × 1.5	14	10.5	17	43	28	57	6.5	15	19	19.05	20	13	14.5	18.0	0.077
SI 10 MF	10	M10 × 1.25	14	10.5	17	43	28	57	6.5	15	19	19.05	20	13	14.5	18.0	0.077
SI 12	12	M12 × 1.75	16	12	19	50	32	66	6.5	17.5	22	22.225	22	13	17.0	24.0	0.100
SI 12 MF	12	M12 × 1.25	16	12	19	50	32	66	6.5	17.5	22	22.225	22	13	17.0	24.0	0.100
SI 14	14	M14 × 2.0	19	13.5	22	57	36	75	8	20	25	25.40	25	16	24.0	31.0	0.160
SI 14 MF	14	M14 × 1.5	19	13.5	22	57	36	75	8	20	25	25.40	25	16	24.0	31.0	0.160
SI 16	16	M16 × 2.0	21	15	22	64	42	85	8	22	27	28.575	28	15	28.5	39.0	0.220
SI 16 MF	16	M16 × 1.5	21	15	22	64	42	85	8	22	27	28.575	28	15	28.5	39.0	0.220
SI 18	18	M18 × 2.5	23	16.5	27	71	44	93	10	25	31	31.75	32	15	42.5	47.5	0.320
SI 18 MF	18	M18 × 1.5	23	16.5	27	71	44	93	10	25	31	31.75	32	15	42.5	47.5	0.320
SI 20	20	M20 × 2.5	25	18	30	77	50	102	10	27.5	34	34.925	33	14	42.5	57.0	0.420
SI 20 MF	20	M20 × 1.5	25	18	30	77	50	102	10	27.5	34	34.925	33	14	42.5	57.0	0.420
SI 22 MF	22	M22 × 1.5	28	20	32	84	54	111	12	30	38	38.10	37	15	57.0	68.0	0.540
SI 25 MF	25	M24 × 2.0	31	22	36	94	60	124	12	33.5	42	42.85	42	15	68.0	85.0	0.720
SI 28 MF	28	M27 × 2.0	35	24	41	103	66	136	14	37	46	47.60	51	15	86.0	107.0	0.820
SI 30 MF	30	M30 × 2.0	37	25	41	110	70	145	15	40	50	50.80	51	17	88.0	114.0	1.100
SI 35 MF	35	M36 × 2.0	43	28	50	125	81	165.5	17	46	58	57.10	58	16			1.600
SI 40 MF	40	M42 × 2.0	49	33	55	142	91	187.5	19	53	65	66 .60	62	17			2.400
SI 50 MF	50	M48 × 2.0	60	45	65	160	117	218.5	23	65	75	82.50	67	12			5.000

Material and surface treatments:

- Body: medium carbon steel zinc plating; Steel ball: bearing steel without chromium plating; Inner ring: brass H62, with PTFE.
- Body: stainless steel 304 or stainless steel 316 is optional.

Specials on request (only volumes).

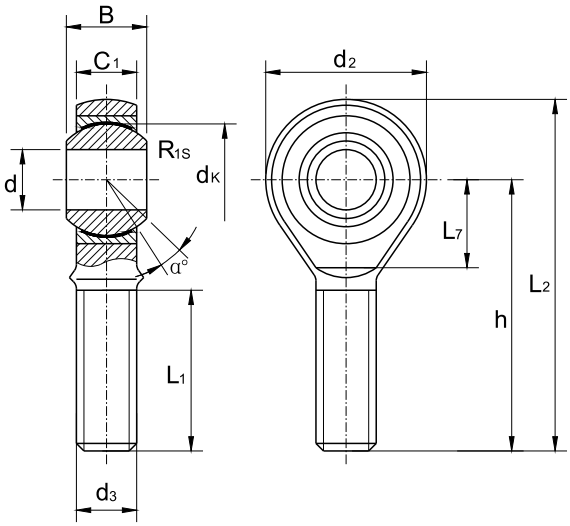
- For left-hand thread, please add suffix “L”, e.g. SIL 8.
- For fine-pitch thread, please add suffix “MF”, e.g. SI8MF.
- General with forging part, also turn part is optional.

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Rod Ends - SA

MAINTENANCE-FREE | AVAILABLE ► ZINC PLATED | SS 304 | SS 316





Part No.	Dimensions (mm)												Load ratings (KN)		Weight (kg)
	d	d3	B	C_1	L_1	d_2	L_7	h	L_2	d_k	R_{1S}	α	C	C_0	
		6g			min							≈			Kg≈
SA 5	5	M5 × 0.8	8	6	19	18		33	42	11.11	0.3	13	5.70	6.00	0.013
SA 6	6	M6 × 1.0	9	6.75	21	20		36	46	12.70	0.3	13	7.20	7.65	0.020
SA 8	8	M8 × 1.25	12	9	25	24		42	54	15.875	0.3	14	11.6	12.9	0.038
SA 10	10	M10 × 1.5	14	10.5	28	28		48	62	19.05	0.3	13	14.5	18.0	0.055
SA 12	12	M12 × 1.75	16	12	32	32		54	70	22.225	0.3	13	17.0	24.0	0.085
SA 14	14	M14 × 2.0	19	13.5	36	36	18	60	78	25.40	0.3	16	24.0	31.0	0.14
SA 16	16	M16 × 2.0	21	15	37	42	21	66	87	28.575	0.3	15	28.5	39.0	0.21
SA 18	18	M18 × 2.5	23	16.5	41	44	22	72	94	31.75	0.3	15	42.5	47.5	0.28
SA 18 MF	18	M18 × 1.5	23	16.5	41	44	22	72	94	31.75	0.3	15	42.5	47.5	0.28
SA 20	20	M20 × 2.5	25	18	45	50	25	78	103	34.925	0.3	14	42.5	57.0	0.38
SA 20 MF	20	M20 × 1.5	25	18	45	50	25	78	103	34.925	0.3	14	42.5	57.0	0.38
SA 22 MF	22	M22 × 1.5	28	20	48	54	27	84	111	38.10	0.3	15	57.0	68.0	0.48
SA 25 MF	25	M24 × 2.0	31	22	55	60	30	94	124	42.85	0.3	15	68.0	85.0	0.64
SA 28 MF	28	M27 × 2.0	35	24	62	66	33	103	136	47.60	0.3	15	86.0	107.0	0.80
SA 30 MF	30	M30 × 2.0	37	25	66	70	35	110	145	50.80	0.3	17	88.0	114.0	1.10
SA 35 MF	35	M36 × 2.0	43	28	85	81	41	140	180.5	57.10	0.3	16	•	•	1.64
SA 40 MF	40	M42 × 2.0	49	33	90	91	46	150	195.5	66.60	0.3	17	•	•	2.30
SA 50 MF	50	M48 × 2.0	60	45	105	117	59	185	243.5	82.50	0.3	12	•	•	4.80

Material and surface treatments:

- Body: medium carbon steel zinc plating; Steel ball: bearing steel without chromium plating; Inner ring: brass H62; with PTFE.
- Body: stainless steel 304 or stainless steel 316 is optional.

Specials on request (only volumes).

- For left-hand thread. please add suffix “L”, e.g. SAL 8.
- For fine-pitch thread, please add suffix “MF”, e.g. SA 8 MF.
- General with forging part, also turn part is optional.

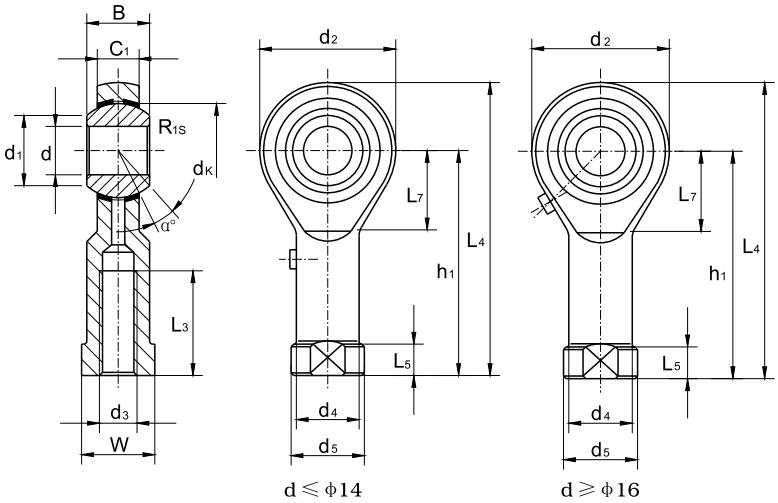
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Rod Ends - PHS

MAINTENANCE REQUIRED

AVAILABLE ► ZINC PLATED





Part No.	Dimensions (mm)															Load ratings (KN)		Weight (kg)
	d	d_3 6H	B	C_1	W	L_3 min	d_2	L_4	h_1	L_5	d_4	d_5	d_k	d_1	α ≈	dyn. C	stat. C_0	Kg≈
PHS 5	5	M5 × 0.8	8	6	9	10	16	35	27	4	8.5	11	11.11	7.70	13	3.25	5.70	0.016
PHS 6	6	M6 × 1.0	9	6.75	11	12	18	39	30	5	10 .0	13	12.70	8.96	13	4.30	7.20	0.022
PHS 8	8	M8 × 1.25	12	9	14	16	22	47	36	5	12 .5	16	15.875	10.4	14	7.20	11.6	0.047
PHS 10	10	M10 × 1.5	14	10.5	17	20	26	56	43	6.5	15.0	19	19.05	12.9	13	10.0	14.5	0.077
PHS 10 MF	10	M10 × 1.25	14	10.5	17	20	26	56	43	6.5	15.0	19	19.05	12.9	13	10.0	14.5	0.077
PHS 12	12	M12 × 1.75	16	12	19	22	30	65	50	6.5	17.5	22	22.225	15.4	13	13.4	17.0	0.10
PHS 12 MF	12	M12 x 1.25	16	12	19	22	30	65	50	6.5	17.5	22	22.225	15.4	13	13.4	17.0	0.10
PHS 14	14	M14 × 2.0	19	13.5	22	25	34	74	57	8	20.0	25	25.40	16.9	16	17.0	24.0	0.16
PHS 14 MF	14	M14 × 1.5	19	13.5	22	25	34	74	57	8	20.0	25	25.40	16.9	16	17.0	24.0	0.16
PHS 16	16	M16 × 2.0	21	15	24	28	40	84	64	8	22 .0	27	28.575	19.4	15	21.6	28.5	0.22
PHS 16 MF	16	M16 x 1.5	21	15	24	28	40	84	64	8	22.0	27	28.575	19.4	15	21.6	28.5	0.22
PHS 18	18	M18 × 2.5	23	16.5	27	32	44	93	71	10	25 .0	31	31.75	21.9	15	26.0	42.5	0.32
PHS 18 MF	18	M18 × 1.5	23	16.5	27	32	44	93	71	10	25.0	31	31.75	21.9	15	26.0	42.5	0.32
PHS 20	20	M20 × 2.5	25	18	30	33	50	102	77	10	27.5	34	34.925	24.4	14	31.5	42.5	0.42
PHS 20 MF	20	M20 × 1.5	25	18	30	33	50	102	77	10	27.5	34	34.925	24.4	14	31.5	42.5	0.42
PHS 22 MF	22	M22 × 1.5	28	20	32	37	54	111	84	12	30.0	38	38.10	25.8	15	38.0	57.0	0.54
PHS 25 MF	25	M24 × 2.0	31	22	36	42	60	124	94	12	33.5	42	42.85	29.6	15	47.5	68.0	0.73
PHS 28 MF	28	M27 × 2.0	35	24	41	48	66	136	103	14	37.0	46	47.60	32 .3	15	58.0	75.0	0.98
PHS 30 MF	30	M30 × 2.0	37	25	41	51	70	145	110	15	40.0	50	50.80	34.8	17	64.0	88.0	1.10

Material and surface treatments:

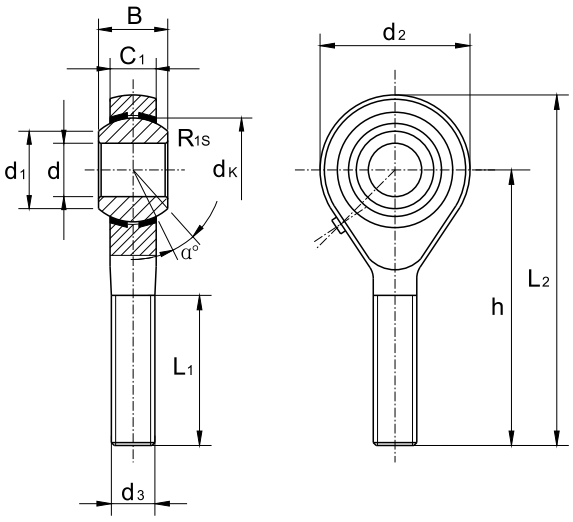
- Body: medium carbon steel zinc plating; Steel ball: bearing steel without chromium plating; Inner ring: brass H62.
- Outer race is lined with brass liner.
- Rod body with a lubricating hole or grease nipple.
- For left-hand thread, please add suffix “L”, e.g. PHSL 8.
- For fine-pitch thread, please add suffix “MF”, e.g. PHS 8MF.
- General with forging part, also turn part is optional.

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Rod Ends - POS

MAINTENANCE REQUIRED | AVAILABLE ► ZINC PLATED | SS 304 | SS 316





Part No.	Dimensions (mm)												Load ratings (KN)		Weight (kg)
	d	d3	B	C_1	L_1	d_2	h	L_2	d_k	R_{1S}	d_1	α	dyn.	stat.	
		6g			min							≈	C	C_0	Kg≈
POS 5	5	M5 × 0.8	8	6	20	16	33	41	11.11	0.3	7.70	13	3.25	5.70	0.013
POS 6	6	M6 × 1 .0	9	6 .75	22	18	36	45	12.70	0.3	8.96	13	4.30	7.20	0.020
POS 8	8	M8 × 1.25	12	9	25	22	42	53	15.875	0.3	10.4	14	7.20	11.6	0.030
POS 10	10	M10 × 1 . 5	14	10.5	29	26	48	61	19.05	0.3	12.9	13	10.0	14.5	0.055
POS 12	12	M12 × 1 .75	16	12	33	30	54	69	22.225	0.3	15.4	13	13.4	17.0	0.085
POS 14	14	M14 × 2.0	19	13.5	36	34	60	77	25.40	0.3	16.9	16	17.0	24.0	0.14
POS 16	16	M16 × 2.0	21	15	40	40	66	86	28.575	0.3	19.4	15	21.6	28.5	0.21
POS 18	18	M18 × 2. 5	23	16.5	44	44	72	94	31.75	0.3	21.9	15	26.0	42.5	0.28
POS 18 MF	18	M18 × 1.5	23	16.5	44	44	72	94	31.75	0.3	21.9	15	26.0	42.5	0.28
POS 20	20	M20 × 2. 5	25	18	47	50	78	103	34.925	0.3	24.4	14	31.5	52.5	0.38
POS 20 MF	20	M20 × 1 . 5	25	18	47	50	78	103	34.925	0.3	24.4	14	31.5	52.5	0.38
POS 22 MF	22	M22 × 1 . 5	28	20	51	54	84	111	38.10	0.3	25.8	15	38.0	57.0	0.48
POS 25 MF	25	M24 × 2.0	31	22	57	60	94	124	42.85	0.3	29.6	15	47.5	68.0	0.64
POS 28 MF	28	M27 × 2.0	35	24	62	66	103	136	47.60	0.3	32.3	15	58.0	75.5	0.96
POS 30 MF	30	M30 × 2.0	37	25	66	70	110	145	50.80	0.3	34.8	17	64.0	88.0	1.10

Material and surface treatments:

- Body: medium carbon steel zinc plating; Steel ball: bearing steel without chromium plating; Inner ring: brass H62.
- Outer race is lined with brass liner.
- Rod body with a lubricating hole or grease nipple.
- For left-hand thread, please add suffix “L”, e.g. POSL 8.
- For fine-pitch thread, please add suffix “MF”, e.g. POS 8MF.
- General with forging part, also turn part is optional.

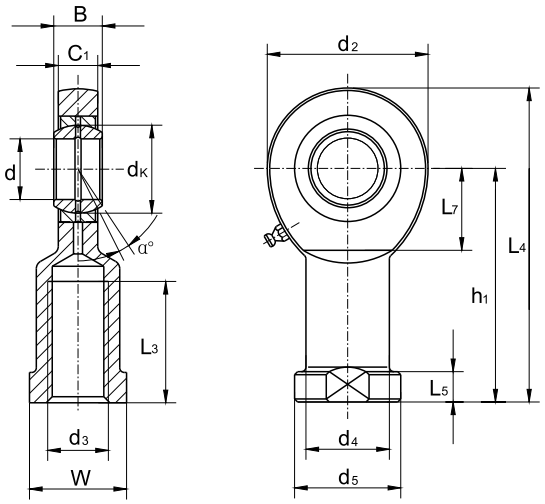
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Rod Ends - SI-E(S), SI-ES 2RS

BÖNNEKAMP

MAINTENANCE REQUIRED — AVAILABLE ► ZINC PLATED





Part No.	Dimensions (mm)														Load ratings (KN)		Weight (kg)
	d	d3	B	C_1	L_3	W	d_2	h_1	L_4	L_5	d_4	d_5	d_k	α	dyn.	stat.	
		6H			min									≈	C	C_0	Kg≈
SI 6 E*	6	M6 × 1.0	6	4.4	11	11	21	30	40.5	5	10	13	10	13	3.40	8.15	0.021
SI 8 E*	8	M8 × 1.25	8	6.0	15	14	24	36	48	5	12.5	16	13	15	5.50	12.9	0.039
SI 10 E*	10	M10 × 1.5	9	7.0	20	17	29	43	57.5	6.5	15	19	16	12	8.15	17.6	0.061
SI 12 E*	12	M12 × 1.75	10	8.0	23	19	34	50	67	6.5	17.5	22	18	11	10.8	24.5	0.096
SI 15 ES	15	M14 × 2.0	12	10	30	22	40	61	81	8	21	26	22	8	17.0	36.0	0.180
SI 17 ES	17	M16 × 2.0	14	11	34	27	46	67	90	10	24	30	25	10	21.2	45.0	0.220
SI 20 ES	20	M20 × 1.5	16	13	40	32	53	77	103.5	10	27.5	35	29	9	30.0	60.0	0.350
SI 25 ES	25	M24 × 2.0	20	17	48	36	64	94	126	12	33.5	42	35.5	7	48.0	83.0	0.640
SI 30 ES	30	M30 × 2.0	22	19	56	41	73	110	146.5	15	40	50	40.7	6	62.0	110	0.930
SI 35 ES	35	M36 × 3.0	25	21	60	50	82	125	166	15	47	58	47	6	80.0	146	1.30
SI 40 ES	40	M39 × 3.0	28	23	65	55	92	142	188	18	52	65	53	7	100	180	2.00
SI 45 ES	45	M42 × 3.0	32	27	65	60	102	145	196	20	58	70	60	7	127	240	2.50
SI 50 ES	50	M45 × 3.0	35	30	68	65	112	160	216	20	62	75	66	6	156	290	3.50
SI 60 ES	60	M52 × 3.0	44	38	70	75	135	175	242.5	20	70	88	80	6	245	450	5.50
SI 70 ES	70	M56 × 4.0	49	42	80	85	160	200	280	20	80	98	92	6	315	610	8.60
SI 80 ES	80	M64 × 4.0	55	47	85	100	180	230	320	25	95	110	105	6	400	750	12.0

- It is made up of a radial spherical plain bearing GE..E(S) or GE..ES 2RS and rod body.
- Rod body of SI..ES with a lubricating hole or a grease nipple.
- For bearings d >=15, SI..ES 2RS also available , e.g. SI 20 ES 2RS.
- Lubricating hole or grease nipple isn't available for the sizes marked "*".
- For left-hand thread, please add suffix "L", e.g. SIL 20ES.
- All with forging part.

Specials on request (only volumes).

- Body: medium carbon steel zinc plating; Inner ring and steel ball: both bearing steel.

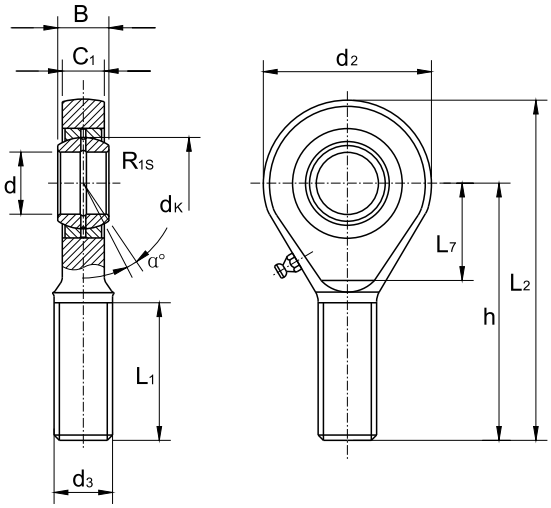
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Rod Ends - SA-E(S), SA-ES 2RS

BÖNNEKAMP

MAINTENANCE REQUIRED | AVAILABLE ► ZINC PLATED | SS 304 | SS 316





Part No.	Dimensions (mm)												Load ratings (KN)		Weight (kg)
	d	d3	B	C_1	L_1	d_2	L_7	h	L_2	d_k	R_{1S}	α	dyn.	stat.	
		6g			min		min					≈	C	C_0	Kg≈
SA 6 E*	6	M6 × 1.0	6	4.4	18	21	11	36	46.5	10	0.3	13	3.40	8.15	0.017
SA 8 E*	8	M8 x 1.25	8	6	22	24	14	42	54	13	0.3	15	5.50	12.9	0.029
SA 10 E*	10	M10 × 1.5	9	7	26	29	15	48	62.5	16	0.3	12	8.15	17.6	0.051
SA 12 E*	12	M12 × 1.75	10	8	28	34	17	54	71	18	0.3	11	10.8	24.5	0.086
SA 15 ES	15	M14 × 2.0	12	10	34	40	20	63	83	22	0.3	8	17.0	36.0	0.140
SA 17 ES	17	M16 × 2.0	14	11	36	46	23	69	92	25	0.3	10	21.2	45.0	0.190
SA 20 ES	20	M20 × 1.5	16	13	43	53	27	78	104.5	29	0.6	9	30.0	60.0	0.310
SA 25 ES	25	M24 × 2.0	20	17	53	64	32	94	126	35.5	0.6	7	48.0	83.0	0.560
SA 30 ES	30	M30 × 2.0	22	19	65	73	37	110	146.5	40.7	0.6	6	62.0	110	0.890
SA 35 ES	35	M36 × 3.0	25	21	82	82	41	140	181	47	0.6	6	80.0	146	1.40
SA 40 ES	40	M39 × 3.0	28	23	86	92	46	150	196	53	0.6	7	100	180	1.80
SA 45 ES	45	M42 × 3.0	32	27	94	102	51	163	214	60	0.6	7	127	240	2.60
SA 50 ES	50	M45 × 3.0	35	30	107	112	56	185	241	66	0.6	6	156	290	3.40
SA 60 ES	60	M52 × 3.0	44	38	115	135	68	210	277.5	80	1.0	6	245	450	5.90
SA 70 ES	70	M56 × 4.0	49	42	125	160	80	235	315	92	1.0	6	315	610	8.20
SA 80 ES	80	M64 × 4.0	55	47	140	180	90	270	360	105	1.0	6	400	750	12.0

- It is made up of a radial spherical plain bearing GE..E(S) or GE..ES 2RS and rod body.
- Rod body of 51..ES with a lubricating hole or a grease nipple.
- For bearings d >= 15, SI..ES 2RS also available, e.g. SA 20 ES 2RS.
- Lubricating hole or grease nipple isn't available lor the sizes marked "*".
- For left-hand thread, please add suffix "L", e.g. SAL 20ES.
- All with forging part.

Specials on request (only volumes).

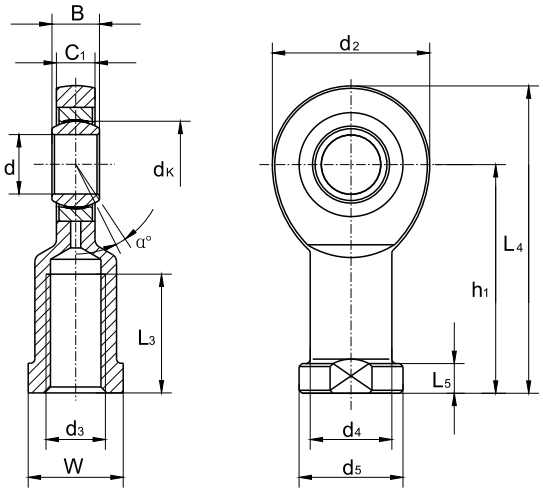
- Body: medium carbon steel zinc plating; Inner ring and steel ball: both bearing steel.

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Rod Ends - GIR..UK, GIR..UK 2RS

MAINTENANCE-FREE AVAILABLE ► ZINC PLATED





Part No.	Dimensions (mm)														Load ratings (KN)		Weight (kg)
	d	d_3	B	C_1	d_2	L_3	W	d_4	d_5	L_5	h_1	L_4	d_k	α	dyn.	stat.	
		6H				min								≈	C	C_0	Kg≈
GIR 6 UK	6	M6 × 1.0	6	4.4	21	11	11	10	13	5	30	40.5	10	13	3.60	8.15	0.021
GIR 8 UK	8	M8 × 1.25	8	6	24	15	14	12.5	16	5	36	48	13	15	5.85	12.9	0.039
GIR 10 UK	10	M10 × 1.5	9	7	29	20	17	15	19	6.5	43	57.5	16	12	8.65	17.6	0.061
GIR 12 UK	12	M12 × 1.75	10	8	34	23	19	17.5	22	6.5	50	67	18	11	11.4	24.5	0.096
GIR 15 UK	15	M14 × 2.0	12	10	40	30	22	21	26	8	61	81	22	8	17.6	36.0	0.18
GIR 17 UK (2RS)	17	M16 × 2.0	14	11	46	34	27	24	30	10	67	90	25	10	22.4	45.0	0.22
GIR 20 UK (2RS)	20	M20 × 1.5	16	13	53	40	32	27.5	35	10	77	103.5	29	9	31.5	60.0	0.35
GIR 25 UK (2RS)	25	M24 × 2.0	20	17	64	48	36	33.5	42	12	94	126	35.5	7	51.0	83.0	0.64
GIR 30 UK (2RS)	30	M30 × 2 .0	22	19	73	56	41	40	50	15	110	146.5	40.7	6	66.5	110	0.93
GIR 35 UK 2RS	35	M36 × 3.0	25	21	82	60	50	47	58	15	125	166	47	6	112	146	1.30
GIR 40 UK 2RS	40	M39 × 3.0	28	23	92	65	55	52	65	18	142	188	53	7	140	180	2.00
GIR 45 UK 2RS	45	M42 × 3.0	32	27	102	65	60	58	70	20	145	196	60	7	180	240	2.50
GIR 50 UK 2RS	50	M45 × 3.0	35	30	112	68	65	62	75	20	160	216	66	6	220	290	3.50
GIR 60 UK 2RS	60	M52 × 3.0	44	38	135	70	75	70	88	20	175	242.5	80	6	345	450	5.50
GIR 70 UK 2RS	70	M56 × 4 .0	49	42	160	80	85	80	98	20	200	280	92	6	440	610	8.60
GIR 80 UK 2RS	80	M64 × 4.0	55	47	180	85	100	95	110	25	230	320	105	6	570	750	12.0

- It is made up of a maintenance-free radial spherical plain bearing GE..UK or GE..UK 2RS and rod body.
- For bearings d ≥ 17, GIR..UK 2RS also available, e.g. GIR 20 UK 2RS.
- For left-hand thread, please add suffix “L”, e.g. GIRL 20UK.
- All with forging part.

Specials on request (only volumes).

- Body: medium carbon steel zinc plating; Inner ring: low carbon steel Steel ball: bearing steel.

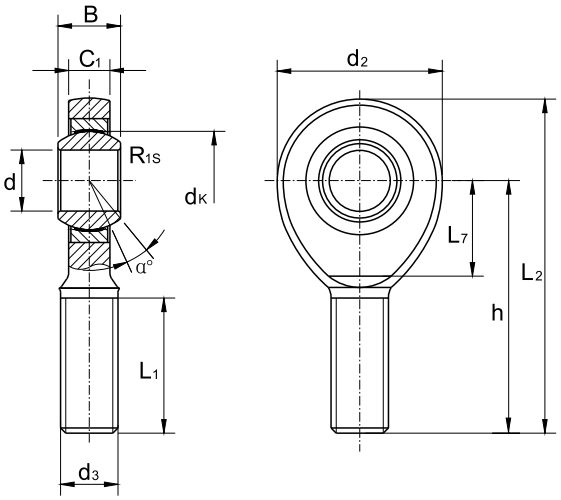
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Rod Ends - GAR..UK, GAR..UK 2RS

BÖNNEKAMP

MAINTENANCE-FREE | AVAILABLE ▶ ZINC PLATED | SS 304 | SS 316





Part No.	Dimensions (mm)												Load ratings (KN)		Weight (kg)
	d	d3	B	C_1	d_2	L_2	h	L_7	L_1	d_k	R_{1S}	α	dyn.	stat.	
		6g							min			≈	C	C_0	Kg≈
GAR 6 UK	6	M6 × 1.0	6	4.4	21	46.5	36	12	18	10	0.3	13	3.60	8.15	0.017
GAR 8 UK	8	M8 × 1.25	8	6	24	54	42	14	22	13	0.3	15	5.85	12.9	0.029
GAR 10 UK	10	M10 × 1.5	9	7	29	62.5	48	15	26	16	0.3	12	8.65	17.6	0.051
GAR 12 UK	12	M12 × 1.75	10	8	34	71	54	18	28	18	0.3	11	11.4	24.5	0.086
GAR 15 UK	15	M14 × 2.0	12	10	40	83	63	20	34	22	0.3	8	17.6	36.0	0.14
GAR 17 UK (2RS)	17	M16 × 2.0	14	11	46	92	69	23	36	25	0.3	10	22.4	45.0	0.19
GAR 20 UK (2RS)	20	M20 × 1.5	16	13	53	104.5	78	27	43	29	0.6	9	31.5	60.0	0.31
GAR 25 UK (2RS)	25	M24 × 2.0	20	17	64	126	94	32	53	35.5	0.6	7	51.0	83.0	0.56
GAR 30 UK (2RS)	30	M30 × 2.0	22	19	73	146.5	110	37	65	40.7	0.6	6	66.5	110	0.89
GAR 35 UK 2RS	35	M36 × 3.0	25	21	82	181	140	42	82	47	0.6	6	112	146	1.40
GAR 40 UK 2RS	40	M39 × 3.0	28	23	92	196	150	48	86	53	0.6	7	140	180	1.80
GAR 45 UK 2RS	45	M42 × 3.0	32	27	102	214	163	52	94	60	0.6	7	180	240	2.60
GAR 50 UK 2RS	50	M45 × 3.0	35	30	112	241	185	60	107	66	0.6	6	220	290	3.40
GAR 60 UK 2RS	60	M52 × 3.0	44	38	135	277.5	210	75	115	80	1.0	6	345	450	5.90
GAR 70 UK 2RS	70	M56 × 4.0	49	42	160	315	235	87	125	92	1.0	6	440	610	8.20
GAR 80 UK 2RS	80	M64 × 4.0	55	47	180	360	270	100	140	105	1.0	6	570	750	12.0

- It is made up of a maintenance-free radial spherical plain bearing GE..UK or GE..UK 2RS and rod body.
- For bearings d ≥ 17, GIR..UK 2RS also available, e.g. GAR 20 UK 2RS.
- For left-hand thread, please add suffix “L”, e.g. GARL 20UK.
- All with forging part.

Specials on request (only volumes).

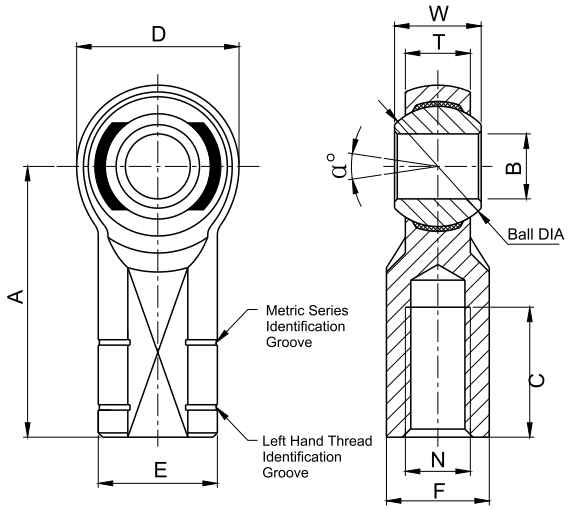
- Body: medium carbon steel zinc plating; Inner ring: low carbon steel Steel ball: bearing steel.

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Rod Ends - SI-N

HIGH LOADED INJECTION — AVAILABLE ► 35CrMo | SS 304 | SS 316





Part No.	Dimensions (mm)											Weight (kg)
	N	A	D	E	C	F	T	W	B	α°	Ball DIA	
	Thread 6H	±0.4	±0.25	±0.25	+1.50 -0.75	+0.05 -0.25	+0.002 -0.010	±0.012	+0.065 -0.012	Misalign Angle	REF	Kg≈
SI-N5	M5 × 0.8	27.00	16.00	11.00	14.00	9.00	6.25	8.00	5.00	14°	11.10	0.019
SI-N6	M6 × 1.0	30.00	19.00	13.00	14.00	11.00	7.00	9.00	6.00	13°	12.70	0.029
SI-N8	M8 × 1.25	36.00	22.25	16.00	17.00	14.00	8.75	12.00	8.00	18°	15.88	0.051
SI-N10	M10 × 1.5	43.00	27.00	19.00	21.00	17.00	10.50	14.00	10.00	17°	19.05	0.086
SI-N12	M12 × 1.75	50.00	30.00	22.00	24.00	19.00	12.00	16.00	12.00	17°	22.23	0.124
SI-N14	M14 × 2.0	57.00	34.75	25.00	27.00	22.00	13.50	19.00	14.00	21°	25.40	0.184
SI-N16	M16 × 2.0	64.00	38.00	27.00	33.00	22.00	14.25	21.00	16.00	23°	28.58	0.223
SI-N20	M20 × 1.5	77.00	46.00	34.00	40.00	30.00	18.00	25.00	20.00	20°	34.93	0.436

Material and surface treatments:

- Body: alloy steel 35CrMo with heat treating. Alternative stainless steel 304 or 316.
- Steel ball: bearing steel with hard chrome plating. Alternative stainless steel.
- Race: nylon.

- For left-hand thread, please add suffix “L”, e.g. SI-NL 8.

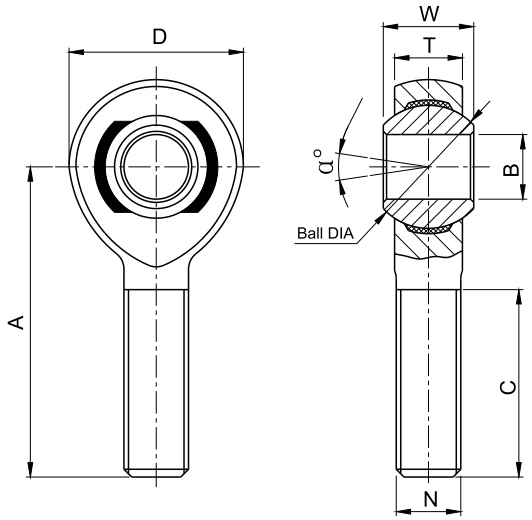
Specials on request (only volumes).

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Rod Ends - SA-N

HIGH LOADED INJECTION — AVAILABLE ► 35CrMo | SS 304 | SS 316





Part No.	Dimensions (mm)									Weight (kg)
	N	A	D	C	T	W	B	α°	Ball DIA	
	Thread 6g	±0.4	±0.25	+1.50 -0.75	±0.12	±0.12	+0.065 -0.012	Misalign Angle	REF	Kg≈
SA-N5	M5 × 0.8	33.00	16.00	20.00	6.25	8.00	5.00	14°	11.10	0.012
SA-N6	M6 × 1.0	36.00	19.00	22.00	7.00	9.00	6.00	13°	12.70	0.019
SA-N8	M8 × 1.25	42.00	22.25	25.00	8.75	12.00	8.00	18°	15.88	0.034
SA-N10	M10 × 1.5	48.00	27.00	29.00	10.50	14.00	10.00	17°	19.05	0.058
SA-N12	M12 × 1.75	54.00	30.00	33.00	12.00	16.00	12.00	17°	22.23	0.083
SA-N14	M14 × 2.0	60.00	34.75	36.00	13.50	19.00	14.00	21°	25.40	0.127
SA-N16	M16 × 2.0	66.00	38.00	40.00	14.25	21.00	16.00	23°	28.58	0.170
SA-N20	M20 × 1 .5	78.00	46.00	47.00	18.00	25.00	20.00	20°	34.93	0.318

Material and surface treatments:

- Body: alloy steel 35CrMo with heat treating. Alternative stainless steel 304 or 316.
- Steel ball: bearing steel with hard chrome plating. Alternative stainless steel.
- Race: nylon.

- For left-hand thread, please add suffix “L”, e.g. SA-NL 8.

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