



**Aace Hitech Engineering Private Limited**





**aace**  
Aace Hitech Engineering Private Limited  
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## COMPANY PROFILE

Aace Hitech Engineering Private Limited an ISO:9001-2015 TUV SUD certified company. Established in the year 2010, we are located in the industrial town of Coimbatore, Tamilnadu, INDIA. We specialize in manufacturing of all types of CNC machined components and sub-assemblies, catering to pneumatic and valve industries. We also manufacture cylinder accessories like clevises, Bolt, Clips, Rod Ends, etc. We also manufacture customized, non-standard components as per the customer requirements.

Aace Hitech Engineering Private Limited provides total machining solutions including sourcing of raw materials such as castings forgings sub-assemblies and fabrication for customers across all industries.

Aace Hitech Engineering Private Limited is committed to customer satisfaction with technical expertise, quality control, competitive pricing and on time delivery, The quality maintained by Aace Hitech Engineering Private Limited complies with International standards, resulting in high reliability. We work to ensure the highest product quality and service by creating a synergy & partnership with our customers. we focus on producing high quality components that meet the specific need of the client.

## MISSION

At Aace Hitech Engineering Private Limited we shall dedicate our self to manufacture of machined components for all the industries. Building quality in to workplace, product & services and total employee involvement, risk assessment, waste elimination, cost reductions team work shall be the guiding values for our continual improvement.

Partner with Aace Hitech Engineering Private Limited for your needs and experience our unwavering commitment to quality and customer centric approach.



Aace Hitech Engineering Private Limited

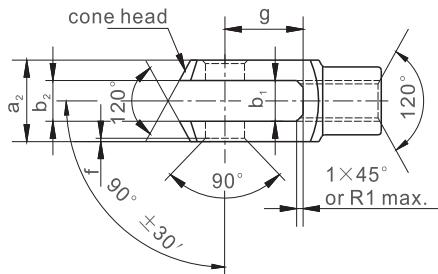
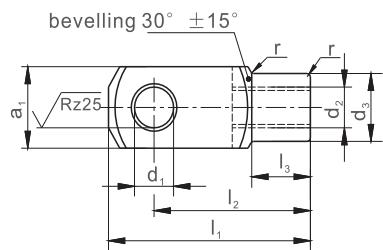
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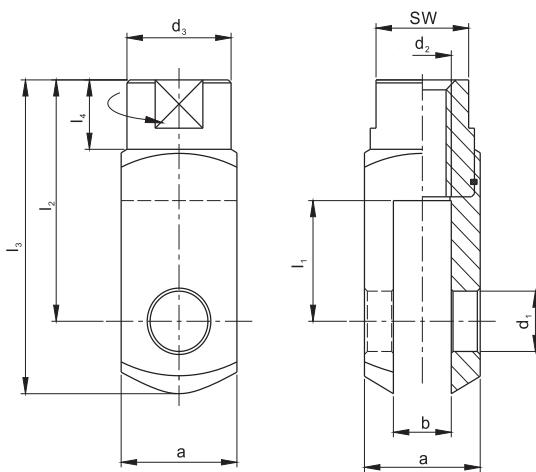
Part No.	Dimensions (mm)													Weight (Kg)		
	$d_1$ H9	$g$ $\pm 0.5$	$a_1$ h11	$a_2$ $+0.30$ $-0.16$	$b_1$ B13	$b_2$ Adm. Variation	$d_2$ Regular thread	$d_2$ Fine-pitch thread	$d_3$ $\pm 0.3$	$f$ $\pm 0.2$	$l_1$ $\pm 0.5$	$l_2$ Adm. Variation	$l_3$ $\pm 0.2$	$r$	$Kg \approx$	
<b>FK 4×8</b>	4	8	8	8	4	4	B13	M4×0.7	8	0.5	21	16	$\pm 0.3$	6.0	0.5	0.005
<b>FK 4×16</b>	4	16	8	8	4	4	B13	M4×0.7	8	0.5	29	24	$\pm 0.3$	6.0	0.5	0.007
<b>FK 5×10</b>	5	10	10	10	5	5	B13	M5×0.8	9	0.5	26	20	$\pm 0.3$	7.5	0.5	0.009
<b>FK 5×20</b>	5	20	10	10	5	5	B13	M5×0.8	9	0.5	36	30	$\pm 0.3$	7.5	0.5	0.013
<b>FK 6×12</b>	6	12	12	12	6	6	B13	M6×1	10	0.5	31	24	$\pm 0.3$	9.0	0.5	0.015
<b>FK 6×24</b>	6	24	12	12	6	6	B13	M6×1	10	0.5	43	36	$\pm 0.4$	9.0	0.5	0.021
<b>FK 8×16</b>	8	16	16	16	8	8	B13	M8×1.25	14	0.5	42	32	$\pm 0.4$	12.0	0.5	0.037
<b>FK 8×16FG</b>	8	16	16	16	8	8	B13	M8×1	14	0.5	42	32	$\pm 0.4$	12.0	0.5	0.037
<b>FK 8×32</b>	8	32	16	16	8	8	B13	M8×1.25	14	0.5	58	48	$\pm 0.4$	12.0	0.5	0.054
<b>FK 8×32FG</b>	8	32	16	16	8	8	B13	M8×1	14	0.5	58	48	$\pm 0.4$	12.0	0.5	0.054
<b>FK 10×20</b>	10	20	20	20	10	10	B13	M10×1.5	18	0.5	52	40	$\pm 0.4$	15.0	0.5	0.074
<b>FK 10×20FG</b>	10	20	20	20	10	10	B13	M10×1.25	18	0.5	52	40	$\pm 0.4$	15.0	0.5	0.074
<b>FK 10×40</b>	10	40	20	20	10	10	$\pm 0.7$ $+0.15$	M10×1.5	18	0.5	72	60	$\pm 0.4$	15.0	0.5	0.116
<b>FK 10×40FG</b>	10	40	20	20	10	10	$\pm 0.7$ $+0.15$	M10×1.25	18	0.5	72	60	$\pm 0.4$	15.0	0.5	0.116
<b>FK 12×24</b>	12	24	24	24	12	12	$\pm 0.7$ $+0.15$	M12×1.75	20	0.5	62	48	$\pm 0.4$	18.0	0.5	0.121
<b>FK 12×24FG</b>	12	24	24	24	12	12	$\pm 0.7$ $+0.15$	M12×1.25	20	0.5	62	48	$\pm 0.4$	18.0	0.5	0.121
<b>FK 12×48</b>	12	48	24	24	12	12	$\pm 0.7$ $+0.15$	M12×1.75	20	0.5	86	72	$\pm 0.4$	18.0	0.5	0.175
<b>FK 12×48FG</b>	12	48	24	24	12	12	$\pm 0.7$ $+0.15$	M12×1.25	20	0.5	86	72	$\pm 0.4$	18.0	0.5	0.175
<b>FK 14×28</b>	14	28	27	27	14	14	$\pm 0.7$ $+0.15$	M14×2	24	1.0	72	56	$\pm 0.4$	22.5	1.0	0.178
<b>FK 14×28FG</b>	14	28	27	27	14	14	$\pm 0.7$ $+0.15$	M14×1.5	24	1.0	72	56	$\pm 0.4$	22.5	1.0	0.178
<b>FK 14×56</b>	14	56	27	27	14	14	$\pm 0.7$ $+0.15$	M14×2	24	1.0	101	85	$\pm 0.4$	22.5	1.0	0.258
<b>FK 14×56FG</b>	14	56	27	27	14	14	$\pm 0.7$ $+0.15$	M14×1.5	24	1.0	101	85	$\pm 0.4$	22.5	1.0	0.258
<b>FK 16×32</b>	16	32	32	32	16	16	$\pm 0.7$ $+0.15$	M16×2	26	1.0	83	64	$\pm 0.4$	24.0	1.0	0.282
<b>FK 16×32FG</b>	16	32	32	32	16	16	$\pm 0.7$ $+0.15$	M16×1.5	26	1.0	83	64	$\pm 0.4$	24.0	1.0	0.282
<b>FK 16×64</b>	16	64	32	32	16	16	$\pm 0.7$ $+0.15$	M16×2	26	1.0	115	96	$\pm 0.4$	24.0	1.0	0.411
<b>FK 16×64FG</b>	16	64	32	32	16	16	$\pm 0.7$ $+0.15$	M16×1.5	26	1.0	115	96	$\pm 0.4$	24.0	1.0	0.411

Part No.	Dimensions (mm)												Weight (Kg)			
	$d_1$ H9	$g$ $\pm 0.5$	$a_1$ h11	$a_2$ $+0.50$ $-0.20$	$b_1$ B13	$b_2$ Adm. Variation	$d_2$ Regular thread	$d_2$ Fine-pitch thread	$d_3$ $\pm 0.3$	$f$ $\pm 0.2$	$l_1$ $\pm 0.5$	$l_2$ Adm. Variation	$l_3$ $\pm 0.3$	$r$ $\pm 0.5$	Kg≈	
<b>FK 18×36</b>	18	36	36	36	18	18	$+0.7$ $+0.15$	M18×2.5	30	1.0	94	72	$\pm 0.4$	27.0	1.5	0.39
<b>FK 18×36FG</b>	18	36	36	36	18	18	$+0.7$ $+0.15$	M18×1.5	30	1.0	94	72	$\pm 0.4$	27.0	1.5	0.39
<b>FK 20×40</b>	20	40	40	40	20	20	$+0.7$ $+0.15$	M20×2.5	34	1.0	105	80	$\pm 0.4$	30.0	1.5	0.55
<b>FK 20×40FG</b>	20	40	40	40	20	20	$+0.7$ $+0.15$	M20×1.5	34	1.0	105	80	$\pm 0.4$	30.0	1.5	0.55
<b>FK 20×80</b>	20	80	40	40	20	20	$+0.7$ $+0.15$	M20×2.5	34	1.0	145	120	$\pm 0.4$	30.0	1.5	0.80
<b>FK 20×80FG</b>	20	80	40	40	20	20	$+0.7$ $+0.15$	M20×1.5	34	1.0	145	120	$\pm 0.4$	30.0	1.5	0.80
<b>FK 25×50</b>	25	50	50	50	25	25	$+0.7$ $+0.15$	M24×3	42	1.5	132	100	$\pm 0.4$	36.0	1.5	1.10
<b>FK 25×50FG</b>	25	50	50	50	25	25	$+0.7$ $+0.15$	M24×2	42	1.5	132	100	$\pm 0.4$	36.0	1.5	1.10
<b>FK 28×56</b>	28	56	55	55	28	28	$+0.7$ $+0.15$	M27×3	48	1.5	148	112	$\pm 0.4$	40.0	2.0	1.50
<b>FK 28×56FG</b>	28	56	55	55	28	28	$+0.7$ $+0.15$	M27×2	48	1.5	148	112	$\pm 0.4$	40.0	2.0	1.50
<b>FK 30×54FG</b>	30	54	55	55	30	30	$+0.7$ $+0.15$	M27×2	48	1.5	148	110	$\pm 0.4$	40.0	2.0	1.44
<b>FK 30×60</b>	30	60	60	60	30	30	$+0.7$ $+0.15$	M30×3.5	52	1.5	160	120	$\pm 0.4$	42.0	2.0	1.97
<b>FK 30×60FG</b>	30	60	60	60	30	30	$+0.7$ $+0.15$	M30×2	52	1.5	160	120	$\pm 0.4$	42.0	2.0	1.97
<b>FK 35×54FG</b>	35	54	70	70	35	35	$+0.7$ $+0.15$	M36×2	60	2.0	188	144	$\pm 0.4$	54.0	3.0	2.93
<b>FK 35×72</b>	35	72	70	70	35	35	$+0.7$ $+0.15$	M36×4	60	2.0	188	144	$\pm 0.4$	54.0	3.0	2.93
<b>FK 35×72FG</b>	35	72	70	70	35	35	$+0.7$ $+0.15$	M36×2	60	2.0	188	144	$\pm 0.4$	54.0	3.0	2.93
<b>FK 36×72</b>	35	72	70	70	36	36	$+0.7$ $+0.15$	M36×4	60	2.0	188	144	$\pm 0.4$	54.0	3.0	2.93
<b>FK 36×72FG</b>	35	72	70	70	36	36	$+0.7$ $+0.15$	M36×2	60	2.0	188	144	$\pm 0.4$	54.0	3.0	2.93
<b>FK 40×84FG</b>	40	84	85	85	40	40	$+0.7$ $+0.15$	M42×2	70	3.0	232	168	$\pm 0.4$	63.5	5.0	5.64
<b>FK 42×84</b>	42	84	85	85	42	42	$+0.7$ $+0.15$	M42×4.5	70	3.0	232	168	$\pm 0.4$	63.5	5.0	5.34
<b>FK 42×84FG</b>	42	84	85	85	42	42	$+0.7$ $+0.15$	M42×2	70	3.0	232	168	$\pm 0.4$	63.5	5.0	5.34
<b>FK 50×96</b>	50	96	96	96	50	50	$+0.7$ $+0.15$	M48×5	82	3.0	265	192	$\pm 0.4$	73.0	5.0	7.86
<b>FK 50×96FG</b>	50	96	96	96	50	50	$+0.7$ $+0.15$	M48×2	82	3.0	265	192	$\pm 0.4$	73.0	5.0	7.86

**Code of thread:** fine-pitch thread – FG, left-handed thread – LH, fine-pitch and left-handed thread-FGLH.

**Material and surface treatments:**

- 1) Low carbon steel; Coated with rust-proof oil, zinc plating or nickel plating.
- 2) Alternative stainless steel 304, stainless steel 303, stainless steel 316; Surface passivation.
- 3) Alternative aluminum 6061; Surface cleaning, or anodizing finish.



Part No.	Dimensions (mm)										Static load (N)	Weight (Kg)
	a	b	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	sw		
<b>FKR4×8</b>	8	4	4	M4	8	8	16	21	3.0	6	500	0.006
<b>FKR4×16</b>	8	4	4	M4	8	16	24	29	3.0	6	500	0.008
<b>FKR5×10</b>	10	5	5	M5	9	10	20	26	4.0	7	800	0.010
<b>FKR5×20</b>	10	5	5	M5	9	20	30	36	4.0	7	800	0.014
<b>FKR6×12</b>	12	6	6	M6	10	12	24	31	5.5	9	2400	0.016
<b>FKR6×24</b>	12	6	6	M6	10	24	36	43	5.5	9	2400	0.023
<b>FKR8×16</b>	16	8	8	M8	14	16	32	42	8.0	12	3400	0.038
<b>FKR8×32</b>	16	8	8	M8	14	32	48	58	8.0	12	3400	0.055
<b>FKR10×20</b>	20	10	10	M10	18	20	40	52	11.5	16	6000	0.080
<b>FKR10×40</b>	20	10	10	M10	18	40	60	72	11.5	16	6000	0.120
<b>FKR12×24</b>	24	12	12	M12	20	24	48	62	14.0	18	14000	0.125
<b>FKR12×48</b>	24	12	12	M12	20	48	72	86	14.0	18	14000	0.180
<b>FKR14×28</b>	27	14	14	M14	24	28	56	72	18.5	22	16000	0.190
<b>FKR14×56</b>	27	14	14	M14	24	56	85	101	18.5	22	16000	0.265
<b>FKR16×32</b>	32	16	16	M16	26	32	64	83	20.0	24	18000	0.300
<b>FKR16×64</b>	32	16	16	M16	26	64	96	115	20.0	24	18000	0.430

**Code of thread:** fine-pitch thread – FG, left-handed thread – LH, fine-pitch and left-handed thread-FGLH.

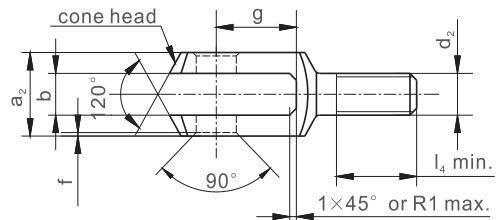
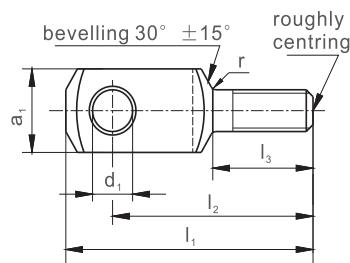
**Material and surface treatments:**

**Fork:** low carbon steel; Coated with rust-proof oil, zinc plating or nickel plating.

**Shaft:** medium carbon steel 45; Coated with rust-proof oil, zinc plating or nickel plating.

**Ring:** spring steel; Coated with rust-proof oil, zinc plating or nickel plating.

# Clevises with Male Thread FT Series DIN71752 / DIN ISO8140 / CETOP

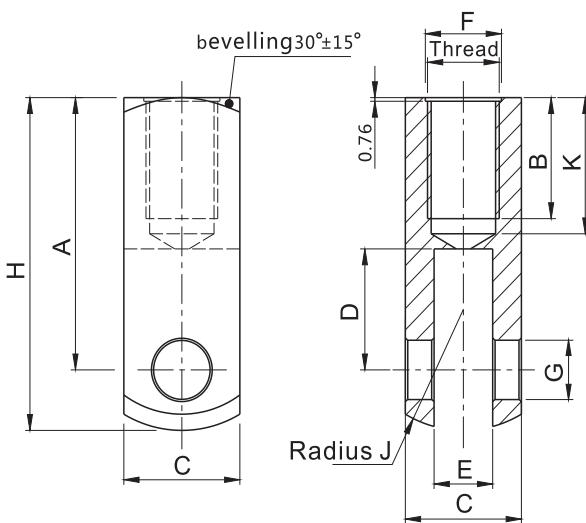


Part No.	Dimensions (mm)													Weight (Kg)
	$d_1$ H9	$g$ $\pm 0.5$	$a_1$ h11	$a_2$ $+0.50$ $-0.20$	$b$ $+0.7$ $+0.15$	$d_2$ Regular thread	$d_2$ Fine-pitch thread	$f$ $\pm 0.2$	$l_1$ $\pm 0.2$	$l_2$ $\pm 0.4$	$l_3$ $\pm 0.2$	$l_4$	$r$	
<b>FT 6×12</b>	6	12	12	12	6	M6×1	—	0.5	44	37	20	15	0.8	0.015
<b>FT 8×16</b>	8	16	16	16	8	M8×1.25	—	0.5	57	47	25	20	0.8	0.036
<b>FT 10×20</b>	10	20	20	20	10	M10×1.5	—	0.5	69	57	30	25	0.8	0.068
<b>FT 12×24</b>	12	24	24	24	12	M12×1.75	—	0.5	82	68	35	30	0.8	0.122
<b>FT 14×28</b>	14	28	27	27	14	M14×2	—	1.0	94	78	40	35	1.2	0.171
<b>FT 16×32</b>	16	32	32	32	16	M16×2	—	1.0	108	89	45	40	1.2	0.288
<b>FT 20×40</b>	20	40	40	40	20	M20×2.5	—	1.0	134	109	55	50	1.5	0.550

**Code of thread:** fine-pitch thread – FG, left-handed thread – LH, fine-pitch and left-handed thread-FGLH.

**Material and surface treatments:**

- 1) Low carbon steel; Coated with rust-proof oil, zinc plating or nickel plating.
- 2) Alternative stainless steel 304, stainless steel 303, stainless steel 316; Surface passivation.
- 3) Alternative aluminum 6061; Surface cleaning or anodizing finish.

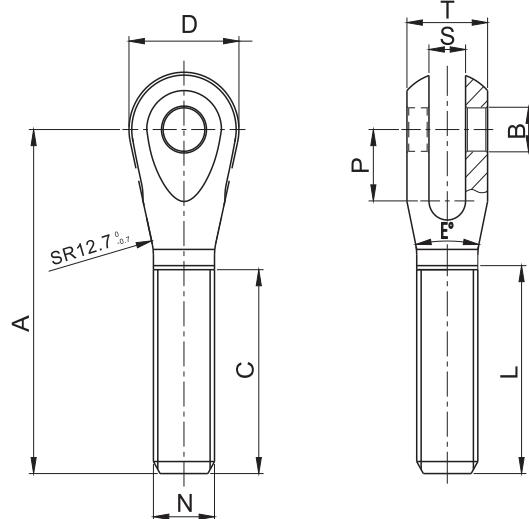


Part No.	Thread Class 2B	Dimensions (inch)											
		A ±.015	B +.125	C ±.010	D ±.015	E +.010 -.000	F ±.010	G +.003 -.001	H ±.015	I +.003 -.001	J ±.030	K	
<b>FU-5-40</b>	5-40	0.437	Thru	0.250	0.250	0.130	0.140	0.128	0.562	0.101	0.250	Thru	
<b>FU-10-32</b>	10-32	0.750	0.375	0.375	0.375	0.190	0.218	0.187	0.937	0.161	0.375	Thru	
<b>FU-1/4-28</b>	1/4-28	0.937	0.500	0.500	0.437	0.255	0.281	0.250	1.187	0.213	0.500	Thru	
<b>FU-5/16-24</b>	5/16-24	0.937	0.500	0.500	0.437	0.255	0.343	0.250	1.187	0.272	0.500	0.625	
<b>FU-3/8-24</b>	3/8-24	1.312	0.750	0.750	0.562	0.380	0.406	0.375	1.687	0.332	0.750	Thru	
<b>FU-7/16-20</b>	7/16-20	1.312	0.750	0.750	0.562	0.380	0.468	0.375	1.687	0.391	0.750	0.875	
<b>FU-1/2-20</b>	1/2-20	1.312	0.750	0.750	0.562	0.380	0.531	0.375	1.687	0.453	0.750	0.875	
<b>FU-5/8-18</b>	5/8-18	2.250	1.000	1.000	1.000	0.505	0.656	0.500	2.750	0.578	1.000	1.125	

**Code of thread:** left-handed thread – LH, E.g. FU-5-40LH.

**Material and surface treatments:**

- 1) Low carbon steel; Coated with rust-proof oil, zinc plating or nickel plating.
- 2) Alternative stainless steel 304, stainless steel 303, stainless steel 316; Surface passivation.
- 3) Alternative aluminum 6061; Surface cleaning or anodizing finish.

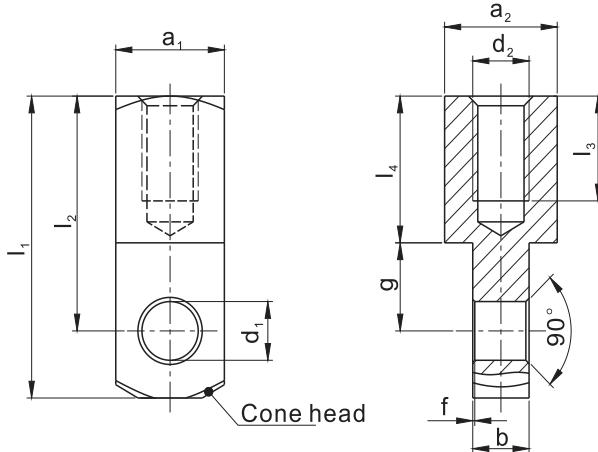


Part No.	Dimensions (inch)										
	A ±.015	B +.005 -.000	C +.062 -.031	D ±.010	E Angle	L ±.015	P +.010 -.040	S ±.005	T ±.005	N Thread UNF-3A	
FC4-5	2.250	0.250	1.250	0.875	40	1.290	0.550	0.188	0.625	5/16-24	
FC5-5	2.250	0.313	1.250	0.875	40	1.290	0.550	0.188	0.625	5/16-24	
FC5-6	2.250	0.313	1.250	0.875	36	1.290	0.550	0.188	0.625	3/8-24	
FC5-8	2.500	0.313	1.500	1.000	38	1.540	0.550	0.250	0.750	1/2-20	
FC6-8	2.500	0.375	1.500	1.000	38	1.540	0.550	0.250	0.750	1/2-20	
FC6-10	3.375	0.375	2.000	1.125	24	2.040	0.550	0.375	0.825	5/8-18	
FC6-12	3.375	0.375	2.000	1.125	18	2.040	0.800	0.375	0.825	3/4-16	
FC7-8	3.375	0.438	2.000	1.125	30	2.040	0.550	0.375	0.825	1/2-20	
FC7-10	3.375	0.438	2.000	1.125	24	2.040	0.700	0.375	0.825	5/8-18	
FC8-10	3.375	0.500	2.000	1.125	24	2.040	0.700	0.375	0.825	5/8-18	
FC8-12	3.375	0.500	2.000	1.125	18	2.040	0.800	0.250	0.825	3/4-16	
FC8-12-1	3.375	0.500	2.000	1.125	18	2.040	0.700	0.375	0.825	3/4-16	

**Code of thread:** left-handed thread – LH, E.g. FC5-5LH.

**Material and surface treatments:**

- 1) Medium carbon steel; Coated with rust-proof oil, zinc plating or nickel plating.
- 2) Alternative stainless steel 304, stainless steel 303, stainless steel 316; Surface passivation.
- 3) Alternative aluminum 6061; Surface cleaning, or anodizing finish.

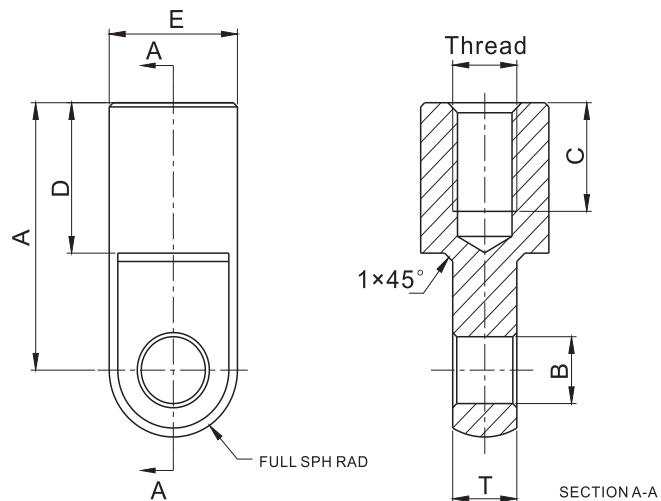


Part No.	Dimensions (mm)												Weight (Kg)
	$d_1$ H9	$g$ $\pm 0.5$	$a_1$ h11	$a_2$ h11	$b$ -0.2	$d_2$ Regular thread	$d_2$ Fine-pitch thread	$f$ $\pm 0.2$	$l_1$ $\pm 0.5$	$l_2$ $\pm 0.3$	$l_3$ $\pm 0.2$	$l_4$ $\pm 0.2$	
FE 4×8	4	6	8	8	4	M4×0.7		0.5	21	16	6	10.0	0.006
FE 5×10	5	7.5	10	10	5	M5×0.8		0.5	26	20	8	12.5	0.012
FE 6×12	6	9	12	12	6	M6×1		0.5	31	24	11	15.0	0.021
FE 8×16	8	12	16	16	8	M8×1.25		0.5	42	32	14	20.0	0.051
FE 8×16FG	8	12	16	16	8		M8×1	0.5	42	32	14	20.0	0.051
FE 10×20	10	15	20	20	10	M10×1.5		0.5	52	40	18	25.0	0.098
FE 10×20FG	10	15	20	20	10		M10×1.25	0.5	52	40	18	25.0	0.098
FE 12×24	12	18	24	24	12	M12×1.75		0.5	62	48	22	30.0	0.168
FE 12×24FG	12	18	24	24	12		M12×1.25	0.5	62	48	22	30.0	0.167
FE 14×28	14	21	27	27	14	M14×2		1.0	72	56	25	35.0	0.247
FE 14×28FG	14	21	27	27	14		M14×1.5	1.0	72	56	25	35.0	0.245
FE 16×32	16	24	32	32	16	M16×2		1.0	83	64	30	40.0	0.397
FE 16×32FG	16	24	32	32	16		M16×1.5	1.0	83	64	30	40.0	0.395
FE 20×40	20	30	40	40	20	M20×2.5		1.0	105	80	38	50.0	0.783
FE 20×40FG	20	30	40	40	20		M20×1.5	1.0	105	80	38	50.0	0.776

**Code of thread:** fine-pitch thread – FG, left-handed thread – LH, fine-pitch and left-handed thread-FGLH.

**Material and surface treatments:**

- 1) Low carbon steel; Coated with rust-proof oil, zinc plating or nickel plating.
- 2) Alternative stainless steel 304, stainless steel 303, stainless steel 316; Surface passivation.
- 3) Alternative aluminum 6061; Surface cleaning or anodizing finish.

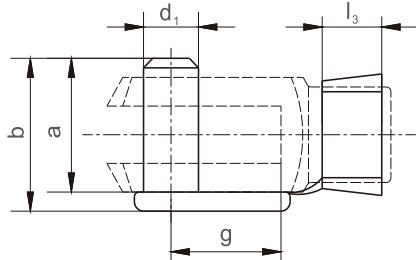
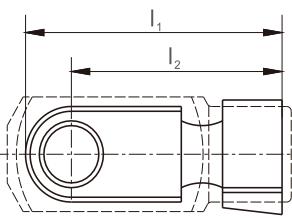


Part No.	Dimensions (mm)						
	Thread 6H	A $\pm 0.25$	B $+0.1$ $-0$	C min	D $\pm 0.25$	E $\pm 0.12$	T $\pm 0.12$
FKE5	M5×0.8	22	6.10	9.00	12.50	12.70	5.00
FKE6	M6×1	25	8.10	10.50	14.00	12.70	6.00
FKE8	M8×1.25	32	8.10	12.70	18.00	16.00	8.00
FKE10	M10×1.5	32	10.10	12.50	18.00	16.00	10.00

**Code of thread:** fine-pitch thread – FG, left-handed thread – LH, fine-pitch and left-handed thread-FGLH.

**Material and surface treatments:**

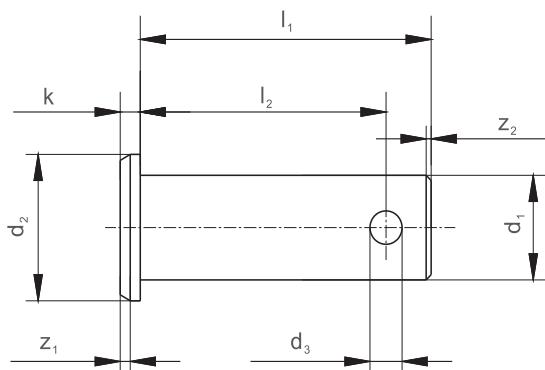
- 1) Low carbon steel; Coated with rust-proof oil, zinc plating or nickel plating.
- 2) Alternative stainless steel 304, stainless steel 303, stainless steel 316; Surface passivation.



Part No.	Suitable for clevis (mm)	Dimensions (mm)						Weight (Kg) Kg/100 pieces
		d <sub>h11</sub>	g	a	b	L <sub>1</sub> ≈	L <sub>2</sub> ≈	
CL4×8	FK4×8	4	8	9.5	11.0	19.0	15.0	4.5    0.145
CL4×16	FK4×16	4	16	9.5	11.0	26.0	23.5	4.5    0.174
CL5×10	FK5×10	5	10	12.0	13.5	23.0	19.0	5.5    0.254
CL5×20	FK5×20	5	20	12.0	13.5	33.0	29.0	5.5    0.310
CL6×12	FK6×12	6	12	14.0	16.0	28.0	23.0	6.5    0.458
CL6×24	FK6×24	6	24	14.0	16.0	40.0	35.0	6.5    0.516
CL8×16	FK8×16	8	16	19.0	21.5	37.0	30.0	8.0    1.059
CL8×32	FK8×32	8	32	19.0	21.5	52.0	46.0	8.0    1.155
CL10×20	FK10×20	10	20	23.0	26.0	46.0	38.0	10.0    1.938
CL10×40	FK10×40	10	40	23.0	26.0	66.0	58.0	10.0    2.046
CL12×24	FK12×24	12	24	28.0	31.0	53.0	45.0	12.0    3.306
CL12×48	FK12×48	12	48	28.0	31.0	78.0	69.0	12.0    3.500
CL14×28	FK14×28	14	28	31.0	34.0	62.0	52.0	14.0    4.722
CL14×56	FK14×56	14	56	31.0	34.0	92.0	82.0	14.0    5.076
CL16×32	FK16×32	16	32	36.0	39.0	73.0	62.0	16.0    6.940
CL16×64	FK16×64	16	64	36.0	39.0	103.0	92.0	16.0    7.440
CL20×40	FK20×40	20	40	45.0	50.0	87.5	71.5	16.0    13.00

**Material and surface treatments:**

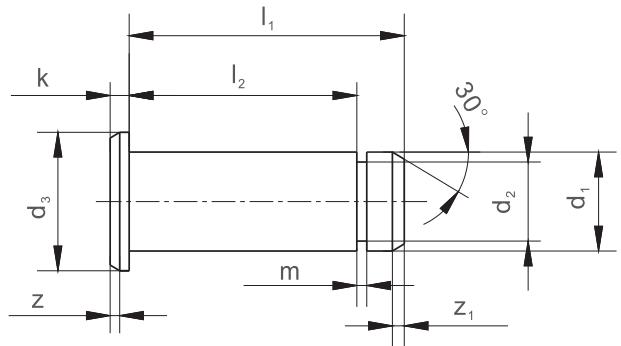
**Bolt:** low carbon steel; **Spring:** spring steel, hardness approx. 430-500HV.  
Coated with rust-proof oil, zinc plating or nickel plating.



Part No.	Dimensions (mm)								Weight (Kg) Kg/100 pieces
	$d_1$ <sub>h11</sub>	$d_2$ <sub>h14</sub>	$d_3$ <sub>H14</sub>	$l_1$ <sub>js15</sub>	$l_2$ <sub>+0.5</sub>	$k$ <sub>js14</sub>	$z_1$	$z_2$	
PC 4	4	6	1.0	12	10.0	1.0	0.5	0.8	0.13
PC 5	5	8	1.0	15	12.3	1.5	0.5	0.8	0.26
PC 6	6	9	1.6	18	15.3	1.5	0.5	1.0	0.46
PC 8	8	12	2.0	23	19.5	2.0	1.0	1.0	1.00
PC 10	10	14	3.2	29	24.5	2.0	1.0	1.5	1.90
PC 12	12	17	4.0	35	29.5	3.0	1.5	1.5	3.40
PC 14	14	19	4.0	40	32.5	3.0	1.5	1.5	5.30
PC 16	16	20	4.0	45	38.2	3.5	1.5	1.5	7.20
PC 18	18	25	5.0	50	43.5	3.5	1.5	1.5	10.4
PC 20	20	28	5.0	53	47.0	4.0	2.0	1.5	13.9
PC 25	25	34	6.3	67	59.0	5.5	3.0	1.5	26.6
PC 28	28	34	6.3	72	63.2	5.5	3.0	2.0	36.1
PC 30	30	36	6.3	67	59.0	5.5	3.0	2.0	38.3
PC 30-1	30	36	6.3	77	68.2	5.5	3.0	2.0	42.8
PC 35	35	45	8.0	87	76.5	7.0	3.0	2.0	67.7
PC 40	40	48	8.0	100	90.0	6.0	3.0	5.0	103.5
PC 42	42	48	8.0	100	90.0	7.0	3.0	5.0	115.1
PC 50	50	58	10.0	115	103.0	7.0	3.0	6.0	184.6

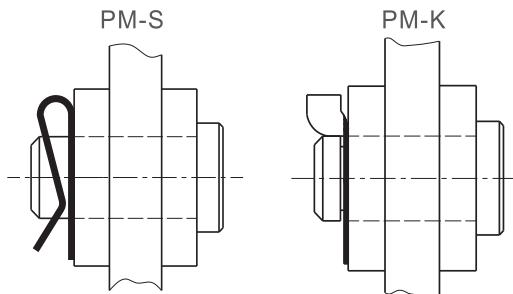
**Material and surface treatments:**

- 1) Low carbon steel; Coated with rust-proof oil, zinc plating or nickel plating.
- 2) Alternative stainless steel 304, stainless steel 303, stainless steel 316; Surface passivation.
- 3) Alternative aluminum 6061; Surface cleaning, or anodizing finish.



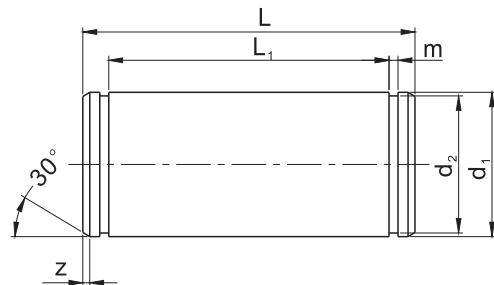
Part No.	Suitable		Dimensions (mm)								Weight (Kg) Kg/100 pieces	
	PM-K	PM-S	$d_1$ <sub>h11</sub>	$d_3$ <sub>h14</sub>	$l_1$ <sub>js15</sub>	$l_2$ <sub>+0.3</sub>	$k$ <sub>js14</sub>	$d_2$ <sub>-0.2</sub>	$m$ <sub>+0.1</sub>	$z$	$z_1$	
<b>PM 4</b>	4	4	4	6	10.5	8.5	1.0	3.2	0.64	0.5	0.50	0.12
<b>PM 5</b>	5	5	5	8	13.0	10.5	1.5	4.0	0.74	0.5	0.50	0.24
<b>PM 6</b>	6	6	6	9	15.5	12.5	1.5	5.0	0.74	0.5	0.75	0.42
<b>PM 8</b>	8	8	8	12	20.0	16.5	2.0	6.0	0.94	1.0	1.00	0.90
<b>PM 10</b>	10	10	10	14	25.0	20.5	2.0	8.0	1.05	1.0	1.00	1.70
<b>PM 12</b>	12	12	12	17	30.0	24.5	3.0	9.0	1.15	1.5	1.25	2.95
<b>PM 14</b>	14	14	14	20	33.0	27.5	2.5	10.0	1.25	1.5	1.25	4.10
<b>PM 16</b>	16	16	16	20	38.5	32.5	3.5	12.0	1.35	1.5	1.50	6.20
<b>PM 18</b>	16	—	18	25	42.0	36.5	3.5	13.0	1.35	2.0	1.50	8.95
<b>PM 20</b>	24	—	20	28	46.0	40.5	4.0	17.5	1.80	2.0	1.50	12.1
<b>PM 25</b>	24	—	25	34	57.0	50.5	5.5	18.0	1.80	2.0	1.50	23.1

-Example of application:



#### Material and surface treatments:

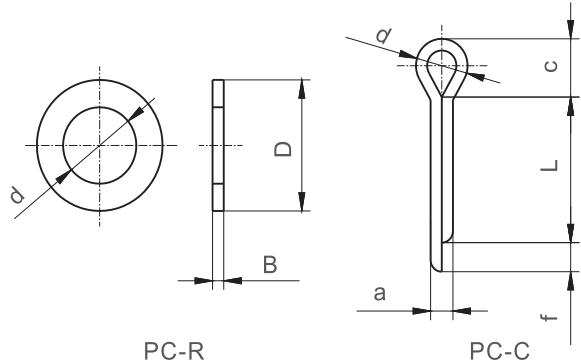
- 1) Low carbon steel; Coated with rust-proof oil, zinc plating or nickel plating.
- 2) Alternative stainless steel 304, stainless steel 303, stainless steel 316; Surface passivation.
- 3) Alternative aluminum 6061; Surface cleaning, or anodizing finish.



Part No.	Dimensions (mm)						Weight (Kg) Kg/pieces
	$d_1$ <sub>h11</sub>	$l$ <sub>+0.50 0</sub>	$d_2$ <sub>h11</sub>	$l_1$ <sub>+0.20 0</sub>	$z$ <sub>min</sub>	$m$ <sub>h13</sub>	
PF6	6	17.0	5.7	12.5	0.5	0.80	0.005
PF8	8	20.0	7.6	16.5	0.5	0.90	0.008
PF10	10	25.0	9.6	20.5	0.5	1.10	0.015
PF12	12	30.0	11.5	24.5	1.0	1.10	0.026
PF14	14	35.0	13.4	27.5	1.0	1.10	0.042
PF16	16	39.0	15.2	32.5	1.0	1.10	0.061
PF20	20	48.0	19.0	40.5	1.0	1.30	0.118
PF25	25	60.0	23.9	50.5	1.0	1.30	0.230
PF30	30	65.0	28.6	55.5	1.0	1.60	0.350
PF35	35	84.0	33.4	70.5	1.0	1.60	0.820
PF40	40	104.3	37.5	89.0	2.0	1.85	1.020
PF42	42	104.3	39.5	89.0	2.0	1.85	1.100
PF50	50	117.3	47.0	100.0	2.0	2.15	1.720

**Material and surface treatments:**

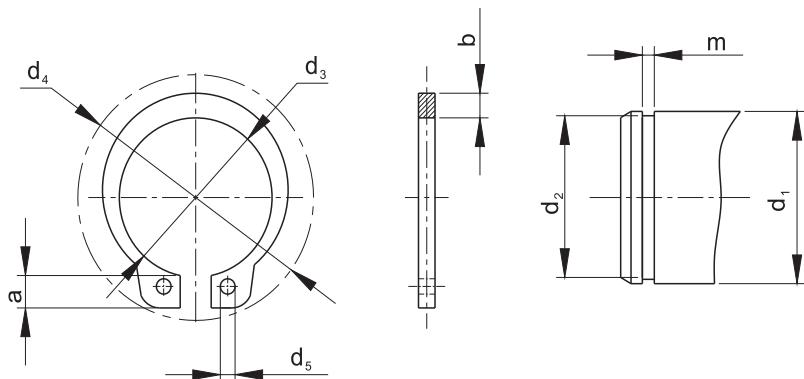
- 1) Low carbon steel; Coated with rust-proof oil, zinc plating or nickel plating.
- 2) Alternative stainless steel 304, stainless steel 303, stainless steel 316; Surface passivation.
- 3) Alternative aluminum 6061; Surface cleaning, or anodizing finish.



Part No.	Dimensions (mm)			Weight (Kg) ≈Kg/1000 pcs	Part No.	Dimensions (mm)				
	d	D	B			d	a	c	f	
PC-R4	4.3	7.5	0.8	0.15	PC-C4/5	1.5	1.0	2.5	1.5	10
PC-R5	5.3	9.5	1.0	0.39	PC-C6	3.6	1.6	4.0	2.5	10
PC-R6	6.4	11.0	1.6	0.70	PC-C8	5.8	2.0	6.4	3.2	16
PC-R8	8.4	15.0	1.6	1.52	PC-C10	7.4	3.2	8.0	4.0	20
PC-R10	10.5	18.0	1.6	2.11	PC-C12/16	7.4	4.0	8.0	4.0	32
PC-R12	13.0	20.0	2.0	2.85	PC-C20/25	9.2	4.0	10.0	4.0	32
PC-R14	15.0	24.0	2.0	4.30						
PC-R16	17.0	27.0	2.0	5.42						
PC-R20	21.0	33.0	2.5	9.98						
PC-R25	25.0	39.0	4.0	14.50						

**Material and surface treatments:**

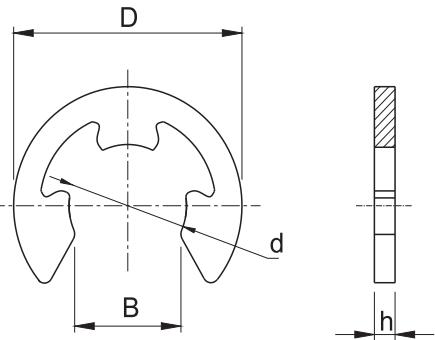
- 1) Low carbon steel; Coated with rust-proof oil, zinc plating or nickel plating.
- 2) Alternative stainless steel 304; Surface passivation.



Part No.	Dimensions (mm)							Weight (Kg) Kg/1000pieces
	$d_1$ $h_{11}$	$s$ $h_{11}$	$d_3$	$d_4$	$d_5$ min	$a$ max	b	
PM-E6	6	0.7	5.6	11.7	1.15	2.70	1.3	0. 084
PM-E8	8	0.8	7.4	14.7	1.20	3.20	1.5	0. 158
PM-E10	10	1.0	9.3	17.0	1.50	3.30	1.8	0. 340
PM-E12	12	1.0	11.0	19.0	1.70	3.30	1.8	0. 500
PM-E14	14	1.0	12.9	21.4	1.70	3.50	2.1	0. 640
PM-E16	16	1.0	14.7	23.8	1.70	3.70	2.2	0. 700
PM-E20	20	1.2	18.5	28.4	2.00	4.00	2.6	1. 300
PM-E25	25	1.2	23.2	34.2	2.00	4.40	3.0	1. 900
PM-E30	30	1.5	27.0	40.5	2.00	5.00	3.5	3. 320
PM-E35	35	1.5	32.2	46.8	2.50	5.60	3.9	4. 000
PM-E40	40	1.8	36.5	52.6	2.50	6.00	4.4	6. 030
PM-E42	42	1.8	38.5	55.7	2.50	6.50	4.5	6. 500
PM-E50	50	2.0	45.8	64.5	2.50	6.90	5.1	10. 200

**Material and surface treatments:**

- 1) Spring steel; Black coating.
- 2) Alternative stainless steel 304; Surface passivation.



Part No.	d	Dimensions (mm)			D		Weight (Kg) Kg/1000pieces
		max	h	min	max	min	
PM-F4	4	0.72	0.68		3.388	3.292	9.3 0.158
PM-F5	5	0.72	0.68		4.158	4.062	11.3 0.236
PM-F6	6	0.72	0.68		5.308	5.212	12.3 0.255
PM-F7	7	0.92	0.88		5.888	5.792	14.3 0.474
PM-F8	8	1.03	0.97		6.578	6.462	16.3 0.660
PM-F9	9	1.13	1.07		7.688	7.572	18.8 1.090
PM-F10	10	1.23	1.17		8.378	8.262	20.4 1.250
PM-F12	12	1.33	1.27		10.52	10.38	23.4 1.630
PM-F15	15	1.53	1.47		12.68	12.54	29.4 3.370
PM-F19	19	1.78	1.72		15.99	15.85	37.6 6.420
PM-F24	24	2.03	1.97		21.964	21.796	44.6 8.550
PM-F30	30	2.53	2.47		25.884	25.716	52.6 13.500

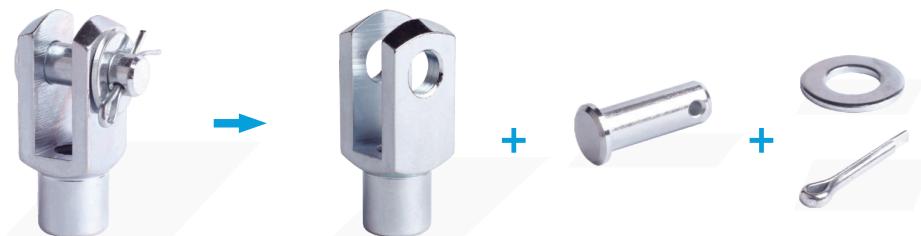
**Material and surface treatments:**

- 1) Spring steel; Black coating.
- 2) Alternative stainless steel 304; Surface passivation.

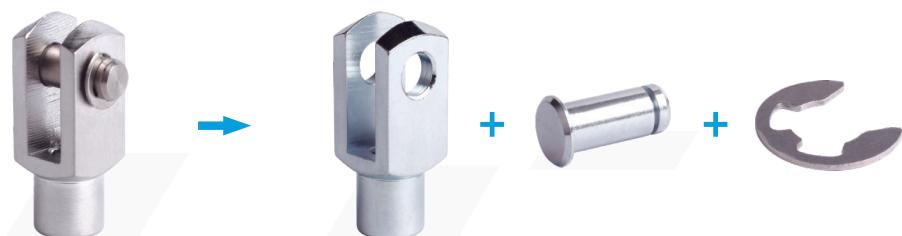
1. Part No.: FK model - ASSY/01  
For example: FK6×12-ASSY/01



2. Part No.: FK model / FT mode - ASSY/02  
For example: FK6×12-ASSY/02, FT6×12-ASSY/02  
Material: Low carbon steel / stainless steel are optional

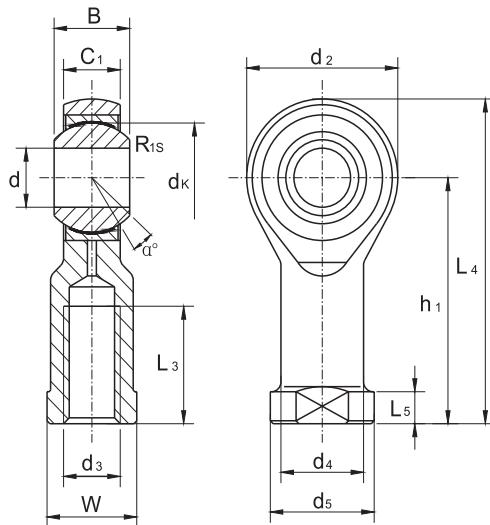


3. Part No.: FK model / FT mode - ASSY/05  
For example: FK6×12-ASSY/05, FT6×12-ASSY/05  
Material: Low carbon steel / stainless steel are optional



4. Part No.: FK model / FT mode - ASSY/06  
For example: FK6×12-ASSY/06, FT6×12-ASSY/06  
Material: Low carbon steel / stainless steel are optional



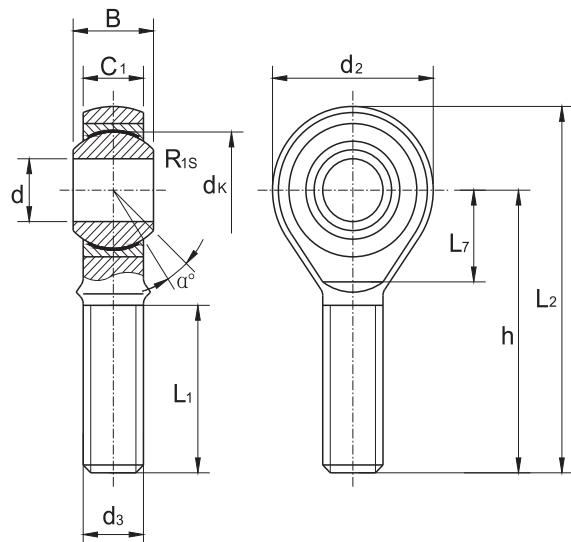


Part No.	Dimensions (mm)												Load ratings (KN)		Weight (KG)		
	d	$d_3$ <sub>6H</sub>	B	C <sub>1</sub>	W	h <sub>1</sub>	d <sub>2</sub>	L <sub>4</sub>	L <sub>5</sub>	d <sub>4</sub>	d <sub>5</sub>	d <sub>k</sub>	L <sub>3</sub> <sub>-2</sub>	$\alpha \approx$	dyn. C	stat. C <sub>0</sub>	Kg≈
<b>SI 5 T/K</b>	5	M5×0.8	8	6	9	27	18	36	4	8.5	11	11.11	10	13	5.70	6.00	0.016
<b>SI 6 T/K</b>	6	M6×1.0	9	6.75	11	30	20	40	5	10	13	12.70	12	13	7.20	7.65	0.022
<b>SI 8 T/K</b>	8	M8×1.25	12	9	14	36	24	48	5	12.5	16	15.875	16	14	11.6	12.9	0.047
<b>SI 10 T/K</b>	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
<b>SI 10 T/KFG</b>	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
<b>SI 12 T/K</b>	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
<b>SI 12 T/KFG</b>	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
<b>SI 14 T/K</b>	14	M14×2.0	19	13.5	22	57	36	75	8	20	25	25.40	25	16	24.0	31.0	0.160
<b>SI 14 T/KFG</b>	14	M14×1.5	19	13.5	22	57	36	75	8	20	25	25.40	25	16	24.0	31.0	0.160
<b>SI 16 T/K</b>	16	M16×2.0	21	15	22	64	42	85	8	22	27	28.575	28	15	28.5	39.0	0.220
<b>SI 16 T/KFG</b>	16	M16×1.5	21	15	22	64	42	85	8	22	27	28.575	28	15	28.5	39.0	0.220
<b>SI 18 T/K</b>	18	M18×2.5	23	16.5	27	71	44	93	10	25	31	31.75	32	15	42.5	47.5	0.320
<b>SI 18 T/KFG</b>	18	M18×1.5	23	16.5	27	71	44	93	10	25	31	31.75	32	15	42.5	47.5	0.320
<b>SI 20 T/K</b>	20	M20×2.5	25	18	30	77	50	102	10	27.5	34	34.925	33	14	42.5	57.0	0.420
<b>SI 20 T/KFG</b>	20	M20×1.5	25	18	30	77	50	102	10	27.5	34	34.925	33	14	42.5	57.0	0.420
<b>SI 22 T/KFG</b>	22	M22×1.5	28	20	32	84	54	111	12	30	38	38.10	37	15	57.0	68.0	0.540
<b>SI 25 T/KFG</b>	25	M24×2.0	31	22	36	94	60	124	12	33.5	42	42.85	42	15	68.0	85.0	0.720
<b>SI 28 T/KFG</b>	28	M27×2.0	35	24	41	103	66	136	14	37	46	47.60	51	15	86.0	107.0	0.820
<b>SI 30 T/KFG</b>	30	M30×2.0	37	25	41	110	70	145	15	40	50	50.80	51	17	88.0	114.0	1.100
<b>SI 35 T/KFG</b>	35	M36×2.0	43	28	50	125	81	165.5	17	46	58	57.10	58	16	•	•	1.600
<b>SI 40 T/KFG</b>	40	M42×2.0	49	33	55	142	91	187.5	19	53	65	66.60	62	17	•	•	2.400
<b>SI 50 T/KFG</b>	50	M48×2.0	60	45	65	160	117	218.5	23	65	75	82.50	67	12	•	•	5.000

- For left-hand thread, please add suffix " L" , e.g. SIL 8T/K.
- For fine-pitch thread, please add suffix " FG" , e.g. SI8T/KFG.
- General with forging part, also turn part is optional.

#### Material and surface treatments:

- Body: medium carbon steel 45, zinc plating; Steel ball: bearing steel GCr15 without chromium plating; Inner ring: brass H62, with PTFE;
- Body: stainless steel 304, stainless steel 303 or stainless steel 316 is optional with surface passivation.
- Steel ball: alternative bearing steel GCr15 with hard chrome plating or stainless steel 440C; Inner ring: alternative low carbon steel 20 or stainless steel 304.



Part No.	Dimensions (mm)										Load ratings (kN)		Weight (KG)	
	d	d <sub>3</sub> 6g	B	C <sub>1</sub>	L <sub>1</sub> min	d <sub>2</sub>	L <sub>7</sub>	h	L <sub>2</sub>	d <sub>k</sub>	R <sub>1s</sub>	a ≈	dyn. C	stat. C <sub>0</sub>
<b>SA 5 T/K</b>	5	M5×0.8	8	6	19	18	33	42	11.11	0.3	13	5.70	6.00	0.013
<b>SA 6 T/K</b>	6	M6×1.0	9	6.75	21	20	36	46	12.70	0.3	13	7.20	7.65	0.020
<b>SA 8 T/K</b>	8	M8×1.25	12	9	25	24	42	54	15.875	0.3	14	11.6	12.9	0.038
<b>SA 10 T/K</b>	10	M10×1.5	14	10.5	28	28	48	62	19.05	0.3	13	14.5	18.0	0.055
<b>SA 12 T/K</b>	12	M12×1.75	16	12	32	32	54	70	22.225	0.3	13	17.0	24.0	0.085
<b>SA 14 T/K</b>	14	M14×2.0	19	13.5	36	36	60	78	25.40	0.3	16	24.0	31.0	0.14
<b>SA 16 T/K</b>	16	M16×2.0	21	15	37	42	66	87	28.575	0.3	15	28.5	39.0	0.21
<b>SA 18 T/K</b>	18	M18×2.5	23	16.5	41	44	72	94	31.75	0.3	15	42.5	47.5	0.28
<b>SA 18 T/KFG</b>	18	M18×1.5	23	16.5	41	44	72	94	31.75	0.3	15	42.5	47.5	0.28
<b>SA 20 T/K</b>	20	M20×2.5	25	18	45	50	78	103	34.925	0.3	14	42.5	57.0	0.38
<b>SA 20 T/KFG</b>	20	M20×1.5	25	18	45	50	78	103	34.925	0.3	14	42.5	57.0	0.38
<b>SA 22 T/KFG</b>	22	M22×1.5	28	20	48	54	84	111	38.10	0.3	15	57.0	68.0	0.48
<b>SA 25 T/KFG</b>	25	M24×2.0	31	22	55	60	94	124	42.85	0.3	15	68.0	85.0	0.64
<b>SA 28 T/KFG</b>	28	M27×2.0	35	24	62	66	103	136	47.60	0.3	15	86.0	107.0	0.80
<b>SA 30 T/KFG</b>	30	M30×2.0	37	25	66	70	110	145	50.80	0.3	17	88.0	114.0	1.10
<b>SA 35 T/KFG</b>	35	M36×2.0	43	28	85	81	140	180.5	57.10	0.3	16	•	•	1.64
<b>SA 40 T/KFG</b>	40	M42×2.0	49	33	90	91	150	195.5	66.60	0.3	17	•	•	2.30
<b>SA 50 T/KFG</b>	50	M48×2.0	60	45	105	117	59	185	243.5	0.3	12	•	•	4.80

Rod Ends

- For left-hand thread, please add suffix " L" , e.g. SAL 8T/K.
- For fine-pitch thread, please add suffix " FG" , e.g. SA 8 T/KFG.
- General with forging part, also turn part is optional.

#### Material and surface treatments:

- Body: medium carbon steel 45, zinc plating; Steel ball: bearing steel GCr15 without chromium plating; Inner ring: copper H62; with PTFE.
- Body: stainless steel 304, stainless steel 303 or stainless steel 316 is optional with surface passivation.
- Steel ball: alternative bearing steel GCr15 with hard chrome plating or stainless steel 440C; Inner ring: alternative low carbon steel 20 or stainless steel 304.



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