



FUSCO INDUSTRY CO.,LTD.



Reliable Supplier of Linkage and Transmission Products

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Ball Joint



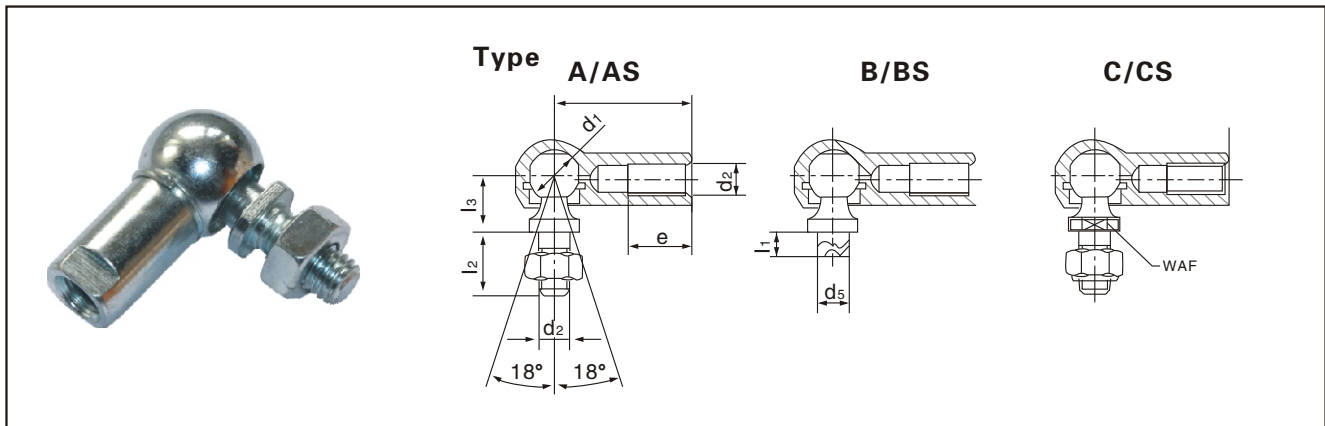
Main Application:

Industrial equipment
Transportation equipment
Construction equipment
Agricultural equipment
Lawn & Garden equipment

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Angle joint • DIN71802



Ball Dia. d ₁	d ₂	l ₂ ± 0.3	l ₃ ± 0.3	e Min.	d ₅ h11	l ₁ ± 0.2	a ± 0.3	WAF h14	Weight Kg/1000pcs for type	
									A and AS C and CS	B and BS
8	M5	10.2	9	10.2	5	4	22	7	15.2	12.85
						7.5				13.35
10	M6	12.5	11	11.5	6	4.5	25	8	25.2	21.3
						8				22
13	M8	16.5	13	14	8	5	30	11	53.1	43.1
						10				45
16	M10 M12	20	16	15.5	10	6	35	13	103.8	82.3
						13				86.6
19	M14 M16	28	20	21.5	14	12	45	16	220.9	181
						18				188.7

– Material

Ball housing, low carbon steel, zinc plated,
yellow/clear or white–blue passivated.

Ball stud, low carbon steel, zinc plated,
yellow/clear or white–blue passivated.

Clip, spring steel.

– Alternative: stainless steel

– Special request upon drawing or samples.

– Note:

– A/B/C type without safety clip on the ball housing

– AS/BS/CS type with safety clip on the ball housing

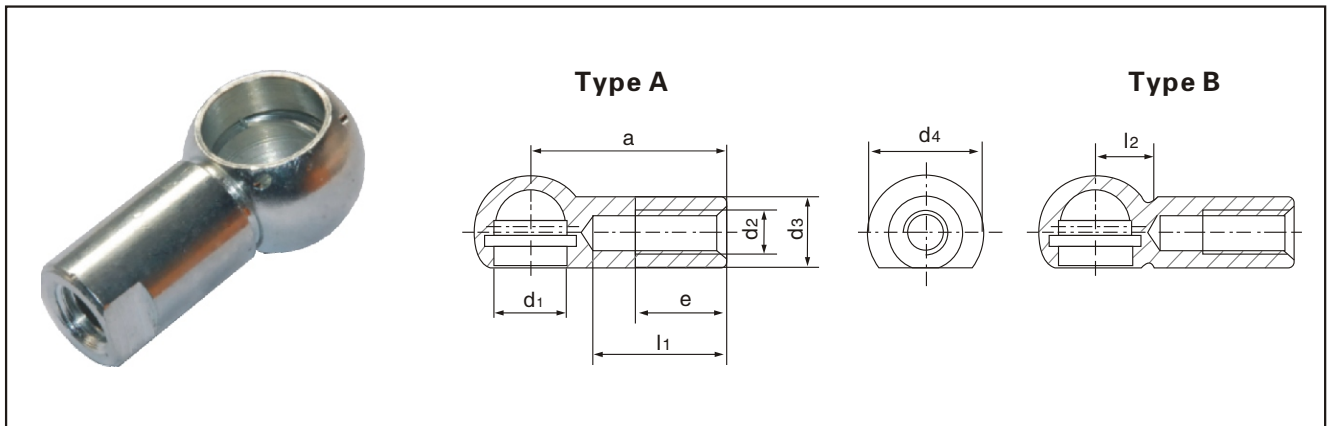
– Spanner surface for type C and CS on the ball stud

– Ball housing with or without spanner surface upon request.

– With or without sealing cap upon request.

– Left–hand thread in the housing possible

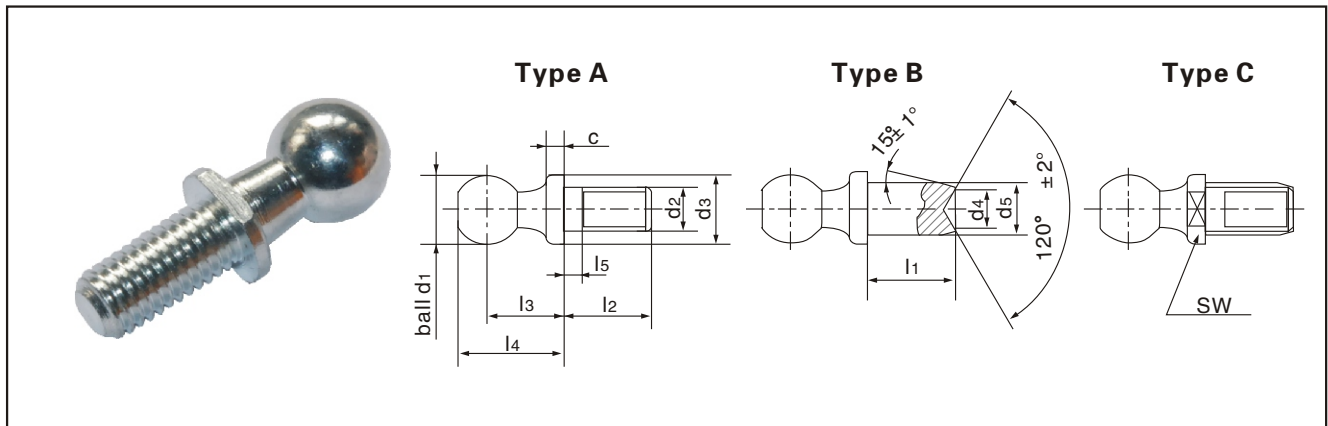
Ball Socket • DIN71805



d ₁	d ₂	a ± 0.3	d ₃ ± 0.5	d ₄ ± 0.5	e min.	l ₁ max.	l ₂ ± 0.4	Weight Kg/1000pcs for type	
								A	B
8	M5	22	8	12.8	10.2	15	6.3	9.0	8.8
10	M6	25	10	14.8	11.5	17	7.0	14.2	14.1
13	M8	30	13	19.3	14.0	20	9.1	29.0	28.8
16	M10	35	16	24.0	15.5	22	11.4	57.0	56.8
	M12								
19	M14	45	22	30.0	21.5	28	12.5	125.0	124.8
	M16								

- Material, low carbon steel.
- Alternative, stainless steel 304 or 316
- Surface protection, zinc plate, white/white–blue or yellow passivated.
- For type A with locking ring, type B with locking ring and groove for circlip.
- The manufacturer reserves the right to supply the ball socket with or without spanner surface.
- left hand thread in the housing are available.
- Dimensions are in mm.
- Special versions upon request.

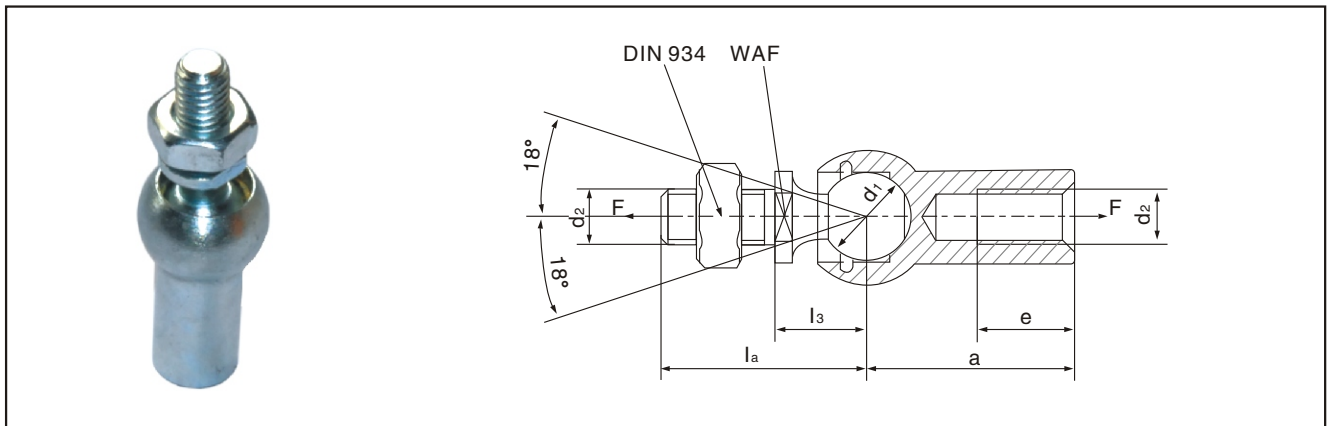
Ball Stud • DIN71803



d1 h9	D2	l1 ± 0.2	c +0.4/0	d3 h14	d5 h11	d6 0/-0.4	l2 ± 0.3	l3 ± 0.3	l4 ± 0.3	l5 max	SW h14	Weight Kg/1000pcs	
												A and C	B
8	M5	4.0 7.5	2.0	8	5	3	10.2	9	12.5	4.0	7	4.55	3.85 4.35
10	M6	4.5 8.0	2.2	10	6	4	12.5	11	15.5	4.0	8	8.50	7.10 7.80
13	M8	5.0 10.0	2.4	13	8	6	16.5	13	18.5	5.3	11	17.7	14.2 16.0
16	M10 M12	6.0 13.0	2.7	16	10	8	20.0	16	23.0	7.3	13	35.1	23.5 29.6
19	M14 M16	12.0 18.0	3.0	19	14	10	28.0	20	28.5	10.8	16	71.2	56.2 63.7

- Material:Low carbon steel,
- Alternative,stainless steel 304 or 316.
- Ball hardened $\geq 52\text{HRC}$ or $\geq 550\text{HV}$ 30.
- Surface protection,zinc plate,white/white–blue or yellow passivated.
- For type A and C with screw stud,type B with rivet stud.
- Left hand thread in the housing are available.
- Dimensions are in mm.
- Special versions upon request.

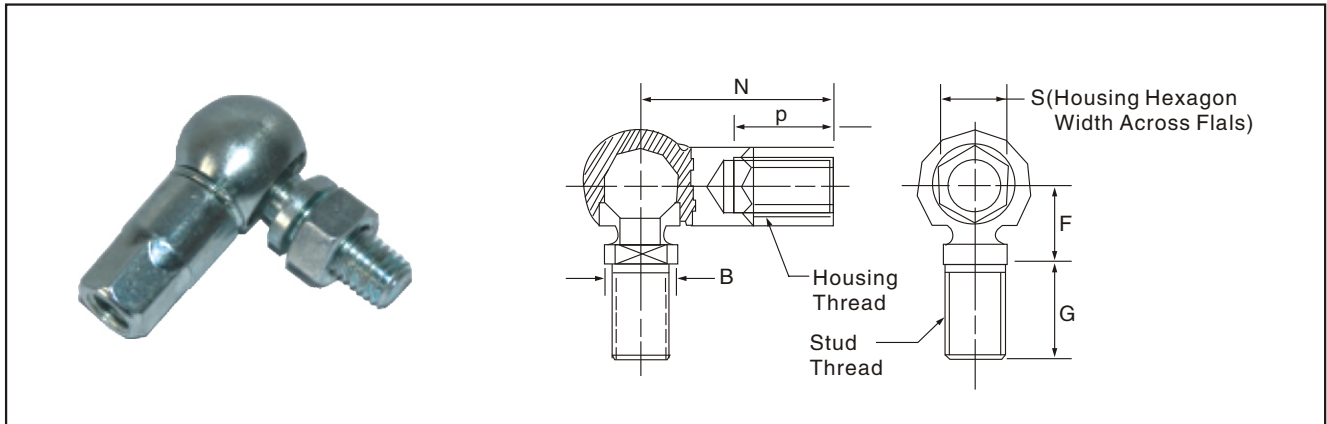
Axial Joint · AJ series · similar to DIN71802



Part N O.	d ₁	d ₂	A	l _a	l ₃	e	WAF	Extraction force F in N	Weight Kg/pcs
AJ8	8	M5	22	19.2	9	10.2	7	30	0.015
AJ10	10	M6	25	23.5	11	11.5	8	40	0.025
AJ13	13	M8	30	29.5	13	14	11	60	0.053
AJ16	16	M10	35	36	16	15.5	13	80	0.104
AJ19	19	M14x1.5	45	48	20	21.5	16	100	0.221

- Material, low carbon steel.
- Alternative, stainless steel 304 or 316.
- Surface protection, zinc plate, white/white–blue or yellow passivated.
- The manufacturer reserves the right to supply the ball socket with or without spanner surface.
- Left hand thread in the housing are available.
- Dimensions are in mm.
- Special versions upon request.

Hexagonal Ball Joint · DIN71802



Part Number		Thread	B	F	G	N	P	S
DCM5	SSDCM5	M5 x 0.80	8	9	10.2	22	10.2	7
DCM6	SSDCM6	M6 x 1.00	10	11	12.5	25	11.5	9
DCM8	SSDCM8	M8 x 1.25	13	13	16.5	30	14	11
DCM10	SSDCM10	M10 x 1.50	16	16	20	35	15.5	13
DCM12	SSDCM12	M12 x 1.75	16	16	20	35	15.5	13

–Based on DIN 71802.

–Material:

Housing:carbon steel.

Ball Stud:carbon steel

Safety clip:Spring steel

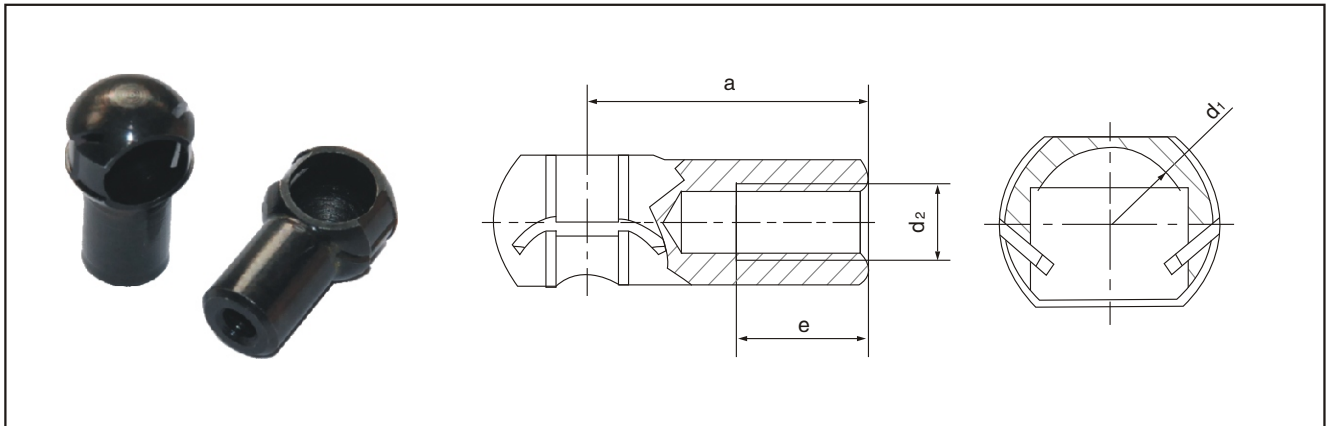
–Surface treatment:

Zinc plate,passivated in white–blue or yellow

–Stainless Ball Joint,Please add prefix 'ss'to the part no..

–DCM Ball Joints are also conveniently available without stud for later assembly on to a pre–positioned stud. Compatible with Threaded Ball Studs or Riveted Studs.

Housing with slits · FG series



Part Number	Ball Dia. d_1	length to the center of the ball a	Thread d_2	Depth of Thread e	Radial Trigger Force N	Axial Trigger Force N
FG8	8	22	M5	10.2		
FG1001	10	18	M6	≥ 8	≥ 1200	≥ 3500
FG1002	10	18	M8	≥ 8.5	≥ 1200	≥ 3500
FG1003	10	19	M6	≥ 8.5	≥ 1200	≥ 3500
FG1004	10	25	M6	11.5	≥ 1200	≥ 3500
FG1301	13	30	M8	14		
FG1302	13	25	M8	9		

–Material:

Housing: Carbon steel

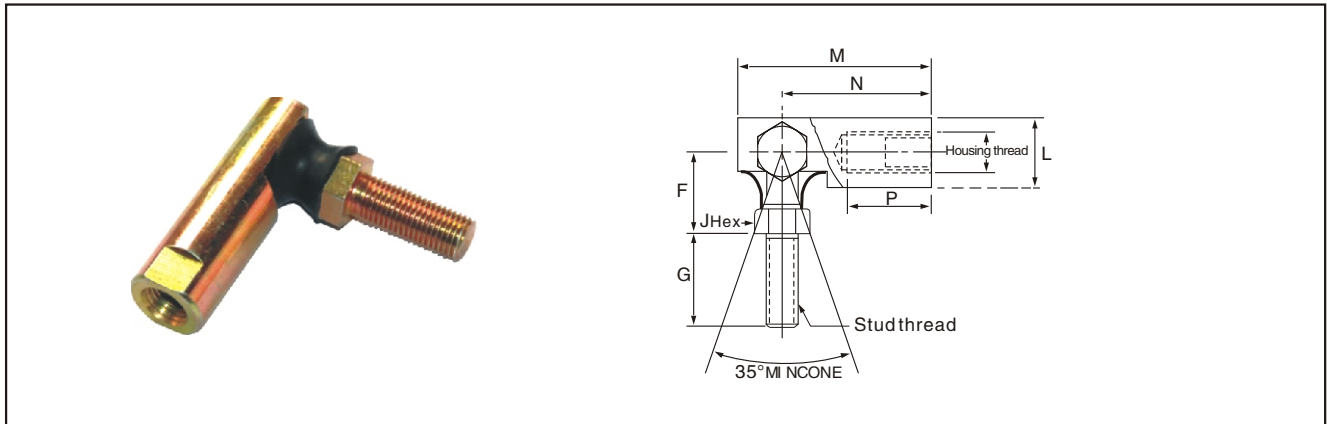
Clip: Spring Steel

–Surface Treatment:

Phosphatized and oiled

Optional: Galvanized, passivated in white-blue or black.

ES Series



Part No .	Housing Thread	Stud Thread	F	G	J	L	M	N	P
ES187	10-32	10-32	0.438	0.438	0.313	0.375	1.063	0.875	0.438
ES250	1/4-28	1/4-28	0.469	0.563	0.375	0.438	1.219	0.969	0.500
ES312	5/16-24	5/16-24	0.531	0.688	0.438	0.500	1.406	1.125	0.563
ES375	3/8-24	3/8-24	0.688	0.875	0.500	0.625	1.688	1.375	0.750
ES438	7/16-20	7/16-20	0.875	1.125	0.625	0.750	2.375	1.938	1.000
ES500	1/2-20	1/2-20	0.875	1.125	0.625	0.750	2.375	1.938	1.000
ES625	5/18-18	5/18-18	1.000	1.125	0.750	0.875	2.578	2.063	1.000

-Material:

Ball Stud, carbon steel, case hardened for extended wear life,
zinc plated, yellow dichromate treated

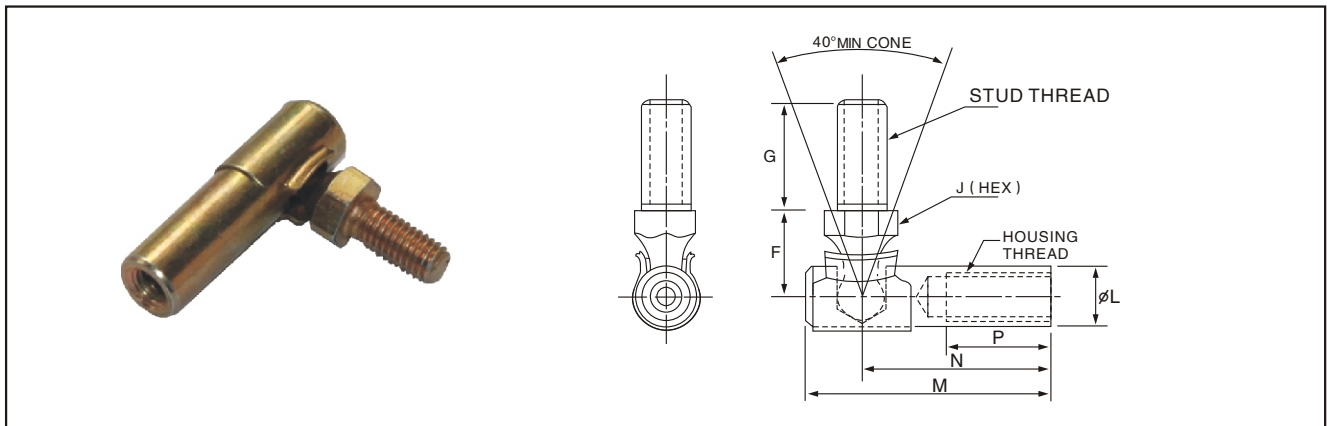
Body, carbon steel, zinc plated, yellow dichromate treated.

-Alternative: stainless steel.

-Unless otherwise specified, all dimensions are in inches.

-Special request upon drawing or samples.

PI series



Part No .	Housing Thread	Stud Thread	F	G	J	L	M	N	P
PI3-3	10-32	10-32	0.438	0.438	0.3125	0.3125	1.156	0.875	0.484
PI3-4	10-32	1/4-28	0.438	0.563	0.3125	0.3125	1.156	0.875	0.484
PI4-3	1/4-28	10-32	0.438	0.438	0.3125	0.3125	1.250	0.969	0.531
PI4-4	1/4-28	1/4-28	0.438	0.563	0.3125	0.3125	1.250	0.969	0.531
PI4L-4L	1/4-28	1/4-28	0.562	0.500	0.3125	0.3400	1.750	1.500	1.120

–Material

Body,carbon steel,heat treated,zinc plated,
yellow dichromate treated.

Ball stud,carbon steel,heat treated,zinc plated,
yellow dichromate treated.

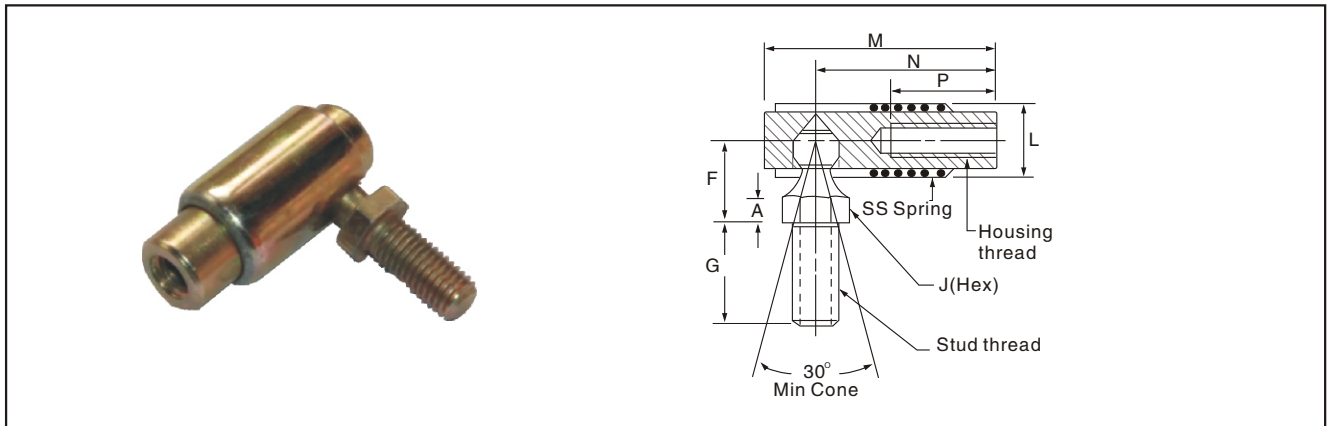
Clip,hardened spring steel.

– Alternative: stainless steel.

–Unless otherwise specified,all dimensions are in inches.

–Special request upon drawing or samples.

Quick Release • QD series



Part No.	Housing Thread	Stud Thread	A	F	G	J	L	M	N	P	Pull force Min.lb	Shear Force Min.lb
QD187	10-32	10-32	0.125	0.438	0.438	0.312	0.438	1.094	0.906	0.438	430	650
QD250	1/4-28	1/4-28	0.125	0.469	0.562	0.375	0.562	1.250	0.969	0.531	950	800
QD312	5/16-24	5/16-24	0.156	0.531	0.687	0.437	0.625	1.453	1.125	0.605	1000	1000
QD375	3/8-24	3/8-24	0.187	0.687	0.875	0.500	0.750	1.750	1.375	0.812	1250	1250
QD500	1/2-20	1/2-20	0.250	0.875	1.125	0.625	1.000	2.530	2.030	1.000	1900	20000

–Material:

Body,carbon steel.

Ball stud,carbon steel,heat treated,zinc plated,
yellow dichromate treated.

Sleeve,low carbon steel,zinc plated,yellow dichromate treated.

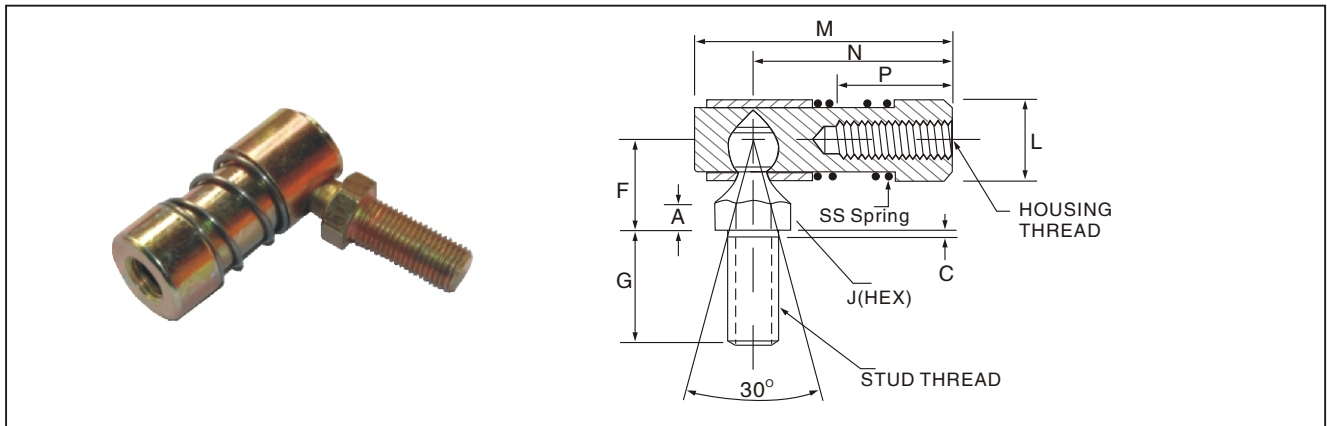
Spring,stainless steel.

–Alternative: stainless steel.

–Unless otherwise specified,all dimensions are in inches.

–Special request upon drawing or samples.

Quick Disconnect • QI series



Part No .	Housing Thread	Stud Thread	A	F	G	J	L	M	N	P
QI187	10-32	10-32	0.125	0.438	0.438	0.312	0.438	1.094	0.906	0.438
QI250	1/4-28	1/4-28	0.125	0.469	0.562	0.375	0.562	1.250	0.969	0.531
QI312	5/16-24	5/16-24	0.156	0.531	0.687	0.437	0.625	1.453	1.125	0.594
QI375	3/8-24	3/8-24	0.187	0.687	0.875	0.500	0.750	1.750	1.375	0.812
QI500	1/2-20	1/2-20	0.250	0.875	1.125	0.625	1.000	2.530	2.030	1.000

–Material

Body,carbon steel.

Ball stud,carbon steel,heat treated,zinc plated,
yellow dichromate treated.

Sleeve,carbon steel,zinc plated,yellow dichromate treated.

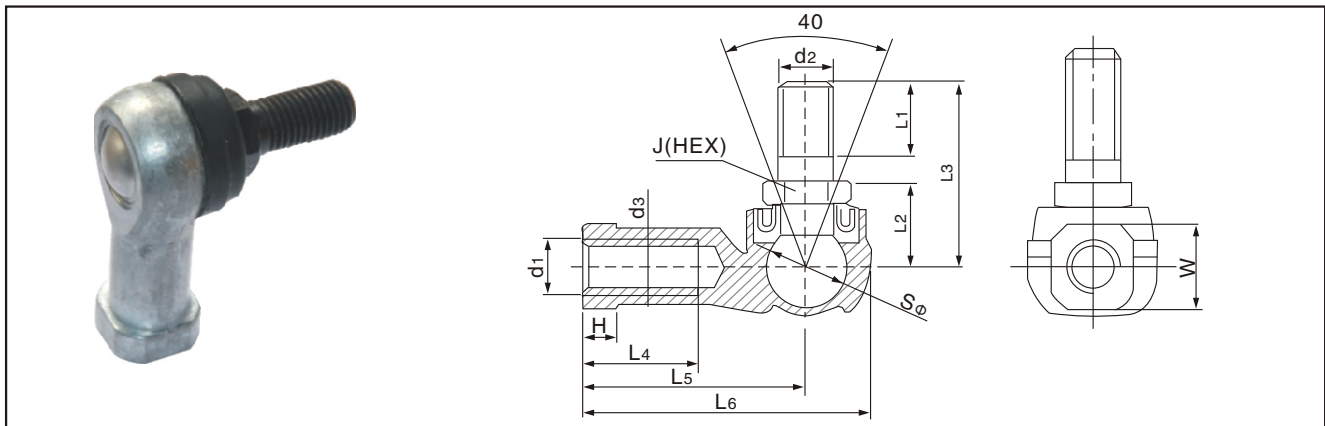
Spring,stainless steel.

–Alternative: stainless steel.

–Unless otherwise specified,all dimensions are in inches.

–Special request upon drawing or samples.

BL series



Part No .	Dimensions													Static load Capability (kN)	Yield strength (kN)	Weight (g)
	D1	D2	D3	L1	L2	L3	L4	L5	L6	H	W	J	SΦ			
BL M6 × 1	M6 × 1	M6 × 1	10	11	11	26	16	30	38	5	11	10	11.11	9.90	3.92	26
BLM8 × 1.25	M8 × 1.25	M8 × 1.25	13	12	14	31	19	36	45.5	6	14	12	12.7	12.50	6.57	49
BL M10 × 1.25	M10 × 1.25	M10 × 1.25	14.5	15	17	37	23	43	55.5	7	17	14	15.87	18.30	11.30	87
BLM10 × 1.5	M10 × 1.5	M10 × 1.5	14.5	21	17	43	23	43	55.5	7	17	14	15.87	18.30	11.30	90
BLM12 × 1.25	M12 × 1.25	M12 × 1.25	17.5	17	19	42	26	50	64.5	8	19	17	19.05	26.70	16.40	143
BL M12 × 1.75	M12 × 1.75	M12 × 1.75	17.5	24	19	49	26	50	64.5	8	19	17	19.05	26.70	16.40	148
BLM16 × 1.5	M16 × 1.5	M16 × 1.5	22	23	23.5	60	34	64	83	11	24	22	22.22	36.40	26.90	315
BLM16 × 2	M16 × 2	M16 × 2	22	29	23.5	66	34	64	83	11	24	22	22.22	36.40	26.90	325

–Material:

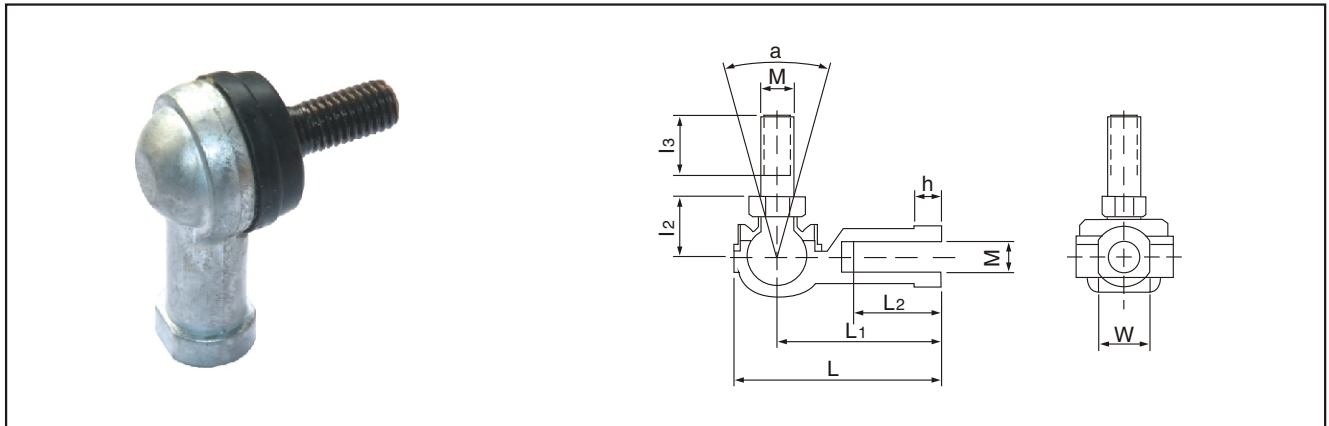
Housing, High strength zinc alloy;
 Ball, bearing steel Gcr15;
 Shank, low carbon steel 35 or 40Cr;
 Dust cover, NBR rubber

–Left hand thread, please add suffix 'L', e.g. BLM10X1.5L

–Grease is sealed in the boot, high wear resistance

–Work Temperature, –40° C–120° C

LHSA Series



Part No .	M	L	L1	L2	I2	I3	W	D1	h	a
LHSA5-RS	M5X0.75	38.5	30	16	12	10	10	10	5	17
LHSA6-RS	M6X1.0	38.5	30	16	12	10	10	10	5	17
LHSA8-RS	M8X1.25	48	36	19	14.5	12.5	13	13	5	18
LHSA10-RS	M10X1.25	57	43	23	16	17	15	15	6.5	19
LHSA12-RS	M12X1.75	67	50	27	20	20	17.5	17.5	6.5	20
LHSA14-RS	M14X2.0	76	57	30	22.5	22	20	20	8	20
LHSA16-RS	M16X1.5	84	64	32	36.5	23	22	22	8	20
LHSA18-RS	M18X1.5	93	71	34	41.5	25	25	25	10	20
LHSA20-RS	M20X1.5	99	77	35	41	25	28	28	10	20
LHSA22-RS	M22X1.5	109	84	41	42	26	30	30	12	20

-Material:

Housing, High strength zinc alloy;

Ball, bearing steel GCr15, equivalent to steel SAE 52100

Shank, alloy steel 40Cr;

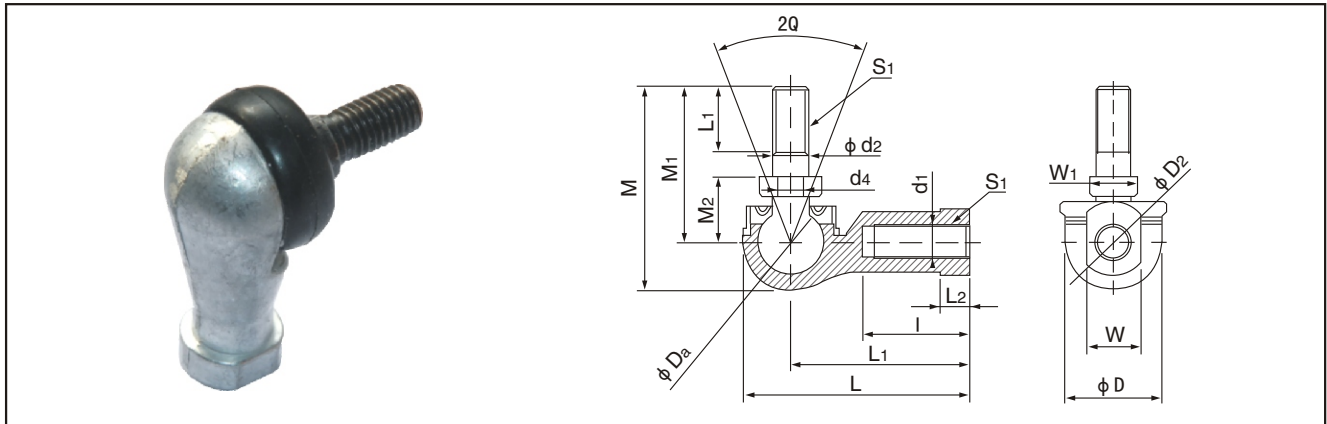
Dust Cover, NBR rubber

-Left hand thread, please add suffix 'L', e.g. LH SA 10L-RS

-Grease is sealed in the boot, high wear resistance

-Work Temperature, -40° C-120° C

SQ series



Part No.	L	D	M	Thread S1	L1	L	L2	d1	D2	W	d2	M1	M2	L3	d4	Da	Static load capacity kN	Yield strength kN
SQ5D	35	16	29	M5X0.8	27	14	4	9	11	9	5	21	10	8	9	11.112	9.22	2.25
SQ6D	40	19	35.5	M6X1	30	14	5	10	13	11	6	26	11	11	10	12.700	12.10	3.53
SQ8D	48	23	42.5	M8X1.25	36	17	5	12.5	16	14	8	31	14	12	12	15.875	19.10	6.57
SQ10D	57	27	50.5	M10X1.25	43	21	6.5	15	19	17	10	37	17	15	14	19.050	27.50	10.70
SQ10BD	57	27	56.5	M10X1.5	43	21	6.5	15	19	17	10	43	17	21	14	19.050	27.50	10.70
SQ12D	66	31	57.5	M12X1.25	50	25	6.5	17.5	22	19	12	42	19	17	19	22.225	37.50	16.40
SQ12BD	66	31	64.5	M12X1.75	50	25	6.5	17.5	22	19	12	49	19	24	19	22.225	37.50	16.40
SQ14D	75	35	73.5	M14X1.5	57	26	8	20	25	22	14	56	21.5	22	19	25.400	48.90	19.80
SQ14BD	75	35	79.5	M14X2	57	26	8	20	25	22	14	62	21.5	28	19	25.400	48.90	19.80
SQ16D	84	39	79.5	M16X1.5	64	32	8	22	27	22	16	60	23.5	23	22	25.400	48.90	26.90
SQ16BD	84	39	85.5	M16X2	64	32	8	22	27	22	16	66	23.5	29	22	25.400	48.90	26.90
SQ18D	93	44	90	M18X1.5	71	34	10	25	31	27	18	68	26.5	25	23	28.575	61.90	33.30
SQ20D	99	44	90	M20X1.5	77	35	10	27.5	34	30	20	68	27	25	29	28.575	61.90	45.90
SQ22D	109	50	95	M22X1.5	84	41	12	30	37	32	22	70	28	26	27	31.750	75.40	48.00

-Material:

Housing, High strength zinc alloy;

Ball, bearing steel GCr15, equivalent to steel SAE 52100 ;

Shank, alloy steel 40Cr;

Dust Cover, NBR rubber

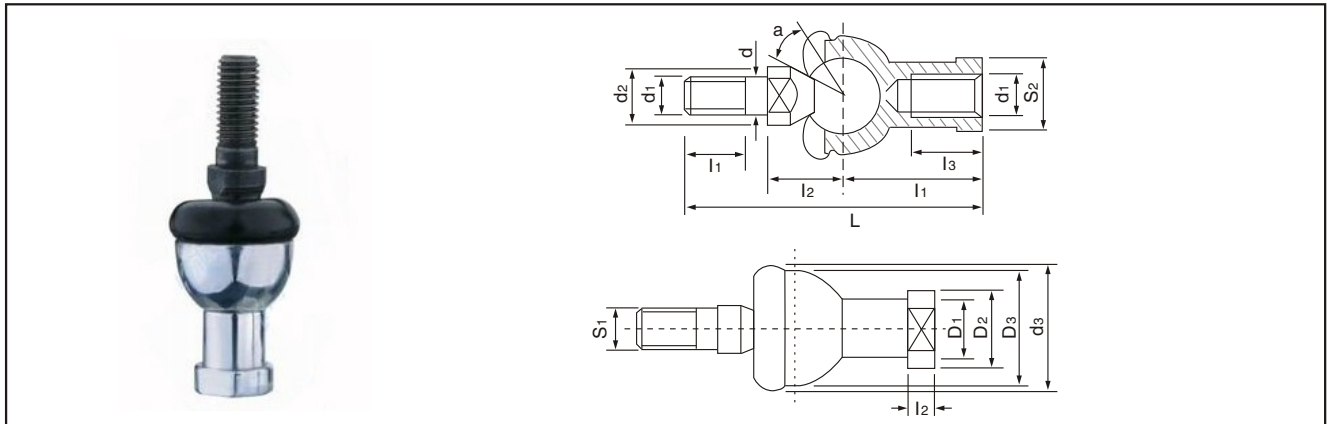
-Left hand thread, please add suffix 'L', e.g. SQL16D

-Grease is sealed in the boot, high wear resistance

-Work Temperature, -40°C-120°C

-All dimension are in mm.

SQZ series



Part No .	D	D ₁	D ₂	D ₃	L ₁	L ₂	S ₁	L	L ₁	L ₂	L ₃	D ₁	D ₂	D ₃	S ₂	A	Load ratings kN	Weight kg
SQZ5RS	5	M5x0.8	9	20	8	11	7	46	24	4	12	9	11	17	9	15	2.8	0.025
SQZ6RS	6	M6x1.0	10	20	11	12.2	8	55.2	28	5	15	10	13	20	11	15	3.7	0.041
SQZ8RS	8	M8x1.25	12	24	12	16	10	65	32	5	16	12.5	16	24	14	15	5.8	0.075
SQZ10RS	10	M10x1.25	14	30	15	19.5	11	74.5	35	6.5	18	15	19	28	17	15	8.4	0.12
SQZ10RS-1	10	M10x1.5	14	30	21	19.5	11	80.5	35	6.5	18	15	19	28	17	15	8.4	0.12
SQZ12RS	12	M12x1.25	17	32	17	21	15	84	40	6.5	20	17.5	22	32	19	15	11	0.18
SQZ12RS-1	12	M12x1.75	17	32	24	21	15	91	40	6.5	20	17.5	22	32	19	15	11	0.18
SQZ14RS	14	M14x1.5	19	38	22	23.5	17	103	45	8	25	20	25	36	22	11	15	0.27
SQZ14RS-1	14	M14x2.0	19	38	28	23.5	17	109	45	8	25	20	25	36	22	11	15	0.27
SQZ16RS	16	M16x1.5	22	44	23	25.5	19	112	50	8	27	22	27	40	22	11	15	0.36
SQZ16RS-1	16	M16x2.0	22	44	29	25.5	19	118	50	8	27	22	27	40	22	11	15	0.36
SQZ18RS	18	M18x1.5	23	45	25	31	20	130.5	58	10	32	25	31	45	27	11	19	0.54
SQZ20RS	20	M20x1.5	27	50	25	29	24	133	63	10	38	27.5	34	45	30	7.5	19	0.57
SQZ22RS	22	M22x1.5	27	52	26	33	24	145	70	12	43	30	37	50	32	7.5	23	0.76

–Material:

Housing,High strength zinc alloy;

Ball,bearing steel GCr15,equivalent to steel SAE 52100 ;

Shank,alloy steel 40Cr;

Dust Cover,NBR rubber

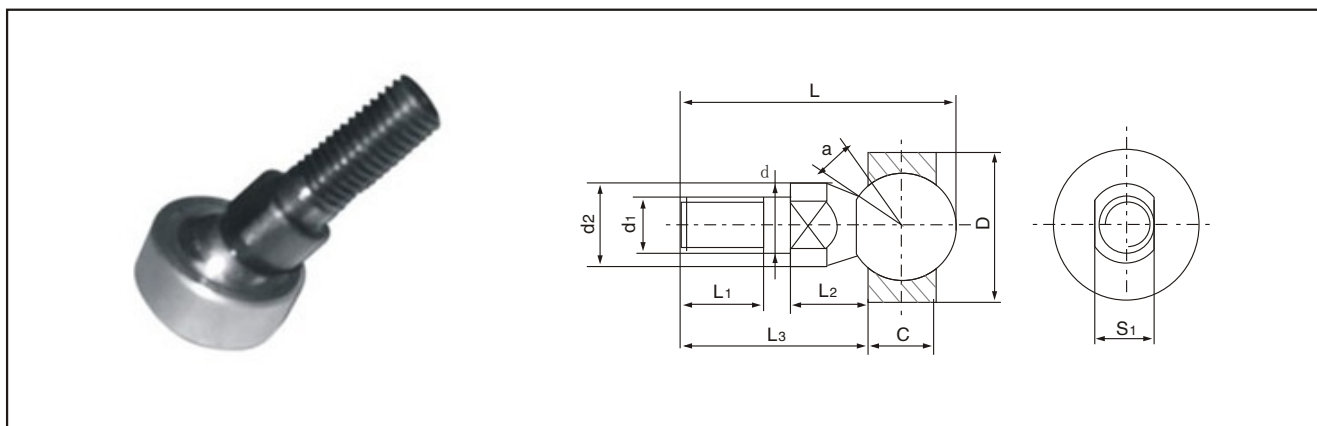
–Left hand thread,please add suffix'L',e.g.SQZ16LRS

–Grease is sealed in the boot,high wear resistance

–Work Temperature,–40℃–120℃

–All dimension are in mm.

SQD series



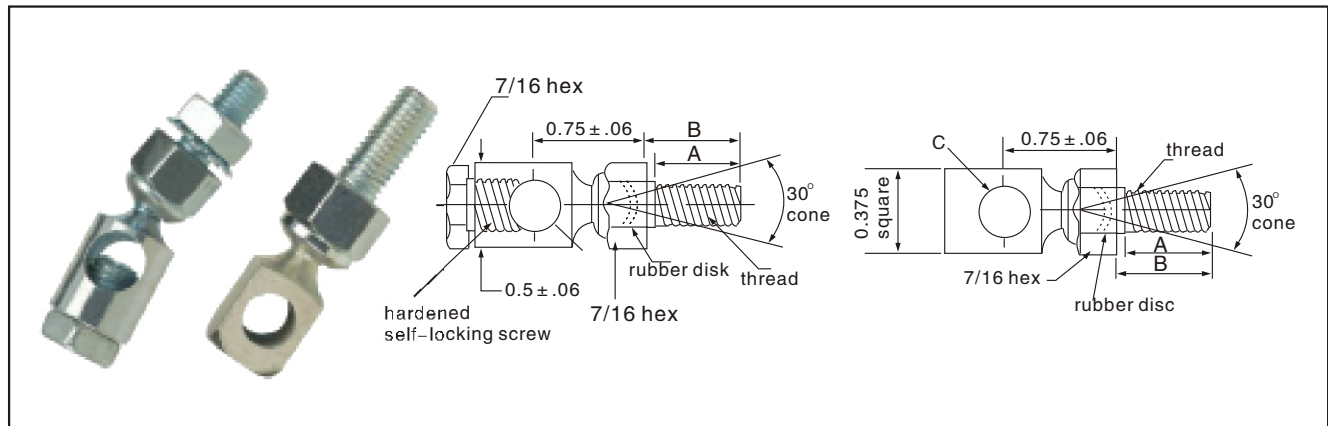
Part No.	d	d ₁	d ₂	L ₁	L ₂	L ₃	L	S ₁	C	D	R1s	a	Load ratings kN	Weight kg
		6g		min							min	≈		
SQD5	5	M5x0.8	9	8	8.0	19.0	27.5	7	6.0	16	0.3	25	2.0	0.014
SQD6	6	M6x1.0	10	11	8.8	23.5	33.5	8	6.75	18	0.3	25	3.2	0.021
SQD8	8	M8x1.25	12	12	11.6	28.6	41.0	10	9.0	22	0.3	25	5.7	0.042
SQD10	10	M10x1.25	14	15	14.2	34.2	49.0	11	10.5	26	0.3	25	9.2	0.067
SQD10-1	10	M10x1.5	14	21	14.2	40.2	55.0	11	10.5	26	0.3	25	9.2	0.067
SQD12	12	M12x1.25	17	17	15.1	38.1	55.1	15	12.0	30	0.5	25	14.0	0.108
SQD12-1	12	M12x1.75	17	24	15.1	45.1	62.1	15	12.0	30	0.5	25	14.0	0.108
SQD14	14	M14x1.5	19	22	16.8	51.3	70.7	17	13.5	34	0.5	20	19.0	0.167
SQD14-1	14	M14x2.0	19	28	16.8	57.3	76.7	17	13.5	34	0.5	20	19.0	0.167
SQD16	16	M16x1.5	22	23	18.0	54.5	76.3	19	15.0	38	0.5	20	26.0	0.238
SQD16-1	16	M16x2.0	22	29	18.0	60.5	82.3	19	15.0	38	0.5	20	26.0	0.238

–Material:

housing, high strength zinc alloy;
ball, GCr15, equivalent to SAE52100;
stud, Alloy steel 40Cr, black oxidized;

–All dimensions are in mm

Damper Control • DC&DH series

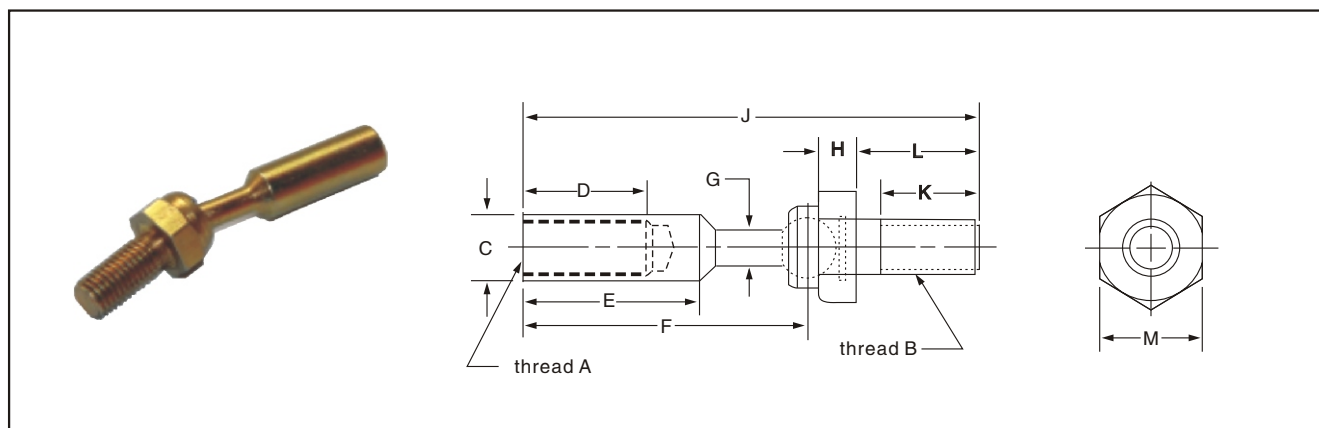


Part No .	Thread	A	B	C
DC-3F-312-320	10-32	0.250	0.312	0.320
DC-4F-437-320	1/4-28	0.328	0.437	0.320
DC-4F-562-320	1/4-28	0.500	0.562	0.320
DC-4C-437-320	1/4-20	0.328	0.437	0.320
DC-4C-562-320	1/4-20	0.453	0.562	0.320
DC-5F-625-320	5/16-24	0.516	0.625	0.320
DC-5F-750-320	5/16-24	0.641	0.750	0.320
DH-4C-437-257	1/4-20	0.328	0.437	0.257
DH-4F-562-257	1/4-28	0.500	0.562	0.257

- Material:

- Ball Joint Head & Base
 - Low Carbon Steel
 - Zinc Plated, Clear Chromate Treated
- Buna N Rubber Disc (provides vibration-free operation)
- Self Locking Screw
 - Low Carbon Steel, Heat Treated
 - Zinc Plated, Clear Chromate Treated
- Alternative: stainless steel.
- Unless otherwise specified, all dimensions are in inches.
- Special request upon drawing or samples.

Damper Control • DS series



Part No .	Male Thread	Female Thread	C	D	E	F	G	H	J	K	L	M
DS101	1/4-28	1/4-28	0.31	0.56	0.81	1.31	0.17	0.17	2.09	0.50	0.56	0.438
DS101S	1/4-20	1/4-20	0.31	0.56	0.81	1.31	0.17	0.17	2.09	0.50	0.56	0.438
DS102	5/16-24	5/16-24	0.44	0.73	0.98	1.31	0.21	0.17	2.40	0.69	0.75	0.438

-Material:

Low carbon steel,

-Zinc plate,yellow / clear passivated.



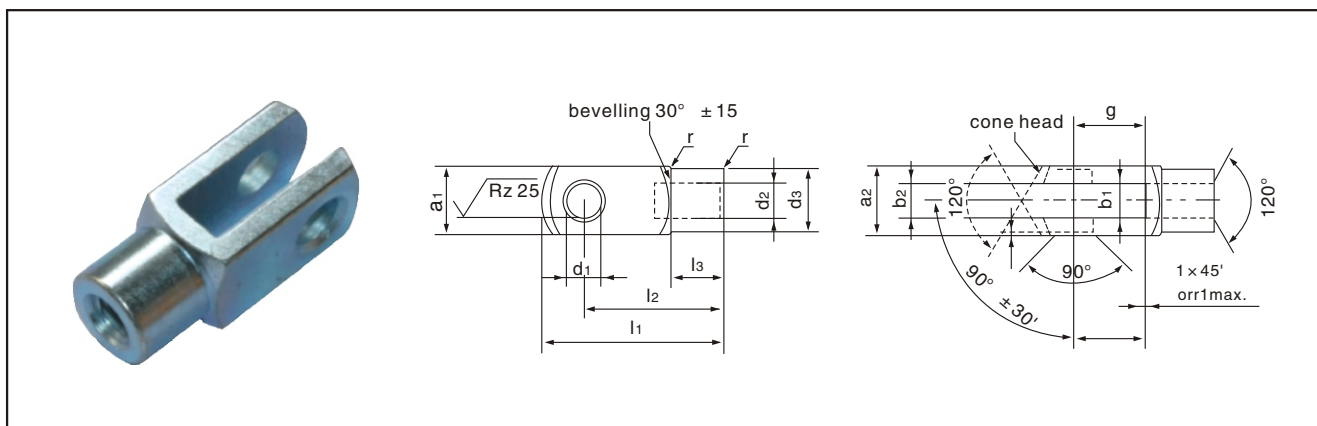
Main Application:

**Industrial equipment
Transportation equipment
Construction equipment
Agricultural equipment
Lawn & Garden equipment**

FUSCO INDUSTRY CO.LTD.

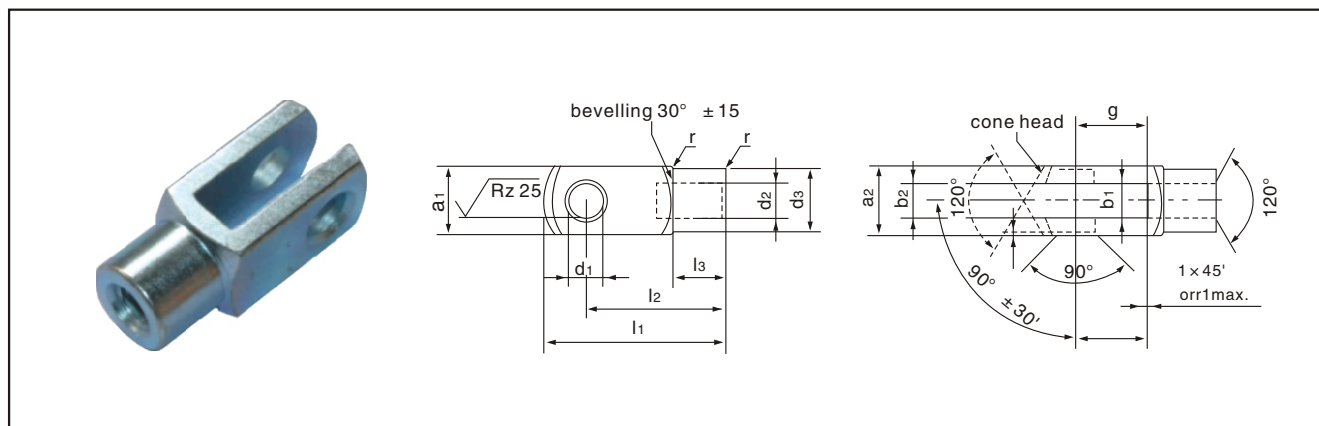
Tel:+86-574-87676065 Fax:+86-574-87675899 E-mail:fusco@fuscoinc.com www.fuscoinc.com

Clevises • DIN 71 752/DIN ISO 8140



Part No .	Dimensions mm													Weight kg
	d ₁	g	a ₁	a ₂	b ₁	b ₂	d ₂	d ₃	f	L ₁	L ₂	L ₃	r	
	H9	±0.5	H11	^{+0.30} _{-0.16}	B13			± 0.3	± 0.2	± 0.5		± 0.2		
G4x8	4	8	8	8	4	4	^{+0.33} _{+0.15} M4x0.7	8	0.5	21	16 ± 0.3	6	0.5	0.005
G4x16	4	16	8	8	4	4	^{+0.33} _{+0.15} M4x0.7	8	0.5	29	24 ± 0.3	6	0.5	0.007
G5x10	5	10	10	10	5	5	^{+0.33} _{+0.15} M5x0.8	9	0.5	26	20 ± 0.3	7.5	0.5	0.009
G5x20	5	20	10	10	5	5	^{+0.33} _{+0.15} M5x0.8	9	0.5	36	30 ± 0.3	7.5	0.5	0.013
G6x12	6	12	12	12	6	6	^{+0.33} _{+0.15} M6x1.0	10	0.5	31	24 ± 0.3	9	0.5	0.015
G6x24	6	24	12	12	6	6	^{+0.33} _{+0.15} M6x1.0	10	0.5	43	36 ± 0.4	9	0.5	0.021
G8x16	8	16	16	16	8	8	^{+0.33} _{+0.15} M8x1.25	14	0.5	42	32 ± 0.4	12	0.5	0.037
G8x16FG	8	16	16	16	8	8	^{+0.33} _{+0.15} M8x1.0	14	0.5	42	32 ± 0.4	12	0.5	0.037
G8x32	8	32	16	16	8	8	^{+0.33} _{+0.15} M8x1.25	14	0.5	58	48 ± 0.4	12	0.5	0.054
G8x32FG	8	32	16	16	8	8	^{+0.33} _{+0.15} M8x1.0	14	0.5	58	48 ± 0.4	12	0.5	0.054
G10x20	10	20	20	20	10	10	^{+0.33} _{+0.15} M10x1.5	18	0.5	52	40 ± 0.4	15	0.5	0.074
G10x20FG	10	20	20	20	10	10	^{+0.33} _{+0.15} M10x1.25	18	0.5	52	40 ± 0.4	15	0.5	0.074
G10x40	10	40	20	20	10	10	^{+0.70} _{+0.15} M10x1.5	18	0.5	72	60 ± 0.4	15	0.5	0.116
G10x40FG	10	40	20	20	10	10	^{+0.70} _{+0.15} M10x1.25	18	0.5	72	60 ± 0.4	15	0.5	0.116
G12x24	12	24	24	24	12	12	^{+0.70} _{+0.15} M12x1.75	20	0.5	62	48 ± 0.4	18	0.5	0.121
G12x24FG	12	24	24	24	12	12	^{+0.70} _{+0.15} M12x1.25	20	0.5	62	48 ± 0.4	18	0.5	0.121
G12x48	12	48	24	24	12	12	^{+0.70} _{+0.15} M12x1.75	20	0.5	86	72 ± 0.4	18	0.5	0.175
G12x48FG	12	48	24	24	12	12	^{+0.70} _{+0.15} M12x1.25	20	0.5	86	72 ± 0.4	18	0.5	0.175
G14x28	14	28	27	27	14	14	^{+0.70} _{+0.15} M14x2.0	24	1.0	72	56 ± 0.4	22.5	1.0	0.178
G14x28FG	14	28	27	27	14	14	^{+0.70} _{+0.15} M14x1.5	24	1.0	72	56 ± 0.4	22.5	1.0	0.178
G14x56	14	56	27	27	14	14	^{+0.70} _{+0.15} M14x2.0	24	1.0	101	85 ± 0.4	22.5	1.0	0.258
G14x56FG	14	56	27	27	14	14	^{+0.70} _{+0.15} M14x1.5	24	1.0	101	85 ± 0.4	22.5	1.0	0.258
G16x32	16	32	32	32	16	16	^{+0.70} _{+0.15} M16x2.0	26	1.0	83	64 ± 0.4	24	1.0	0.282
G16x32FG	16	32	32	32	16	16	^{+0.70} _{+0.15} M16x1.5	26	1.0	83	64 ± 0.4	24	1.0	0.282
G16x64	16	64	32	32	16	16	^{+0.70} _{+0.15} M16x2.0	26	1.0	115	96 ± 0.4	24	1.0	0.411
G16x64FG	16	64	32	32	16	16	^{+0.70} _{+0.15} M16x1.5	26	1.0	115	96 ± 0.4	24	1.0	0.411
G18x36	18	36	36	36	18	18	^{+0.70} _{+0.15} M18x2.5	30	1.0	94	72 ± 0.4	27	1.5	0.39
G18x36FG	18	36	36	36	18	18	^{+0.70} _{+0.15} M18x1.5	30	1.0	94	72 ± 0.4	27	1.5	0.39
G20x40	20	40	40	40	20	20	^{+0.70} _{+0.15} M20x2.5	34	1.0	105	80 ± 0.4	30	1.5	0.55
G20x40FG	20	40	40	40	20	20	^{+0.70} _{+0.15} M20x1.5	34	1.0	105	80 ± 0.4	30	1.5	0.55
G20x80	20	80	40	40	20	20	^{+0.70} _{+0.15} M20x2.5	34	1.0	145	120 ± 0.4	30	1.5	0.80
G20x80FG	20	80	40	40	20	20	^{+0.70} _{+0.15} M20x1.5	34	1.0	145	120 ± 0.4	30	1.5	0.80

Clevises • DIN 71 752/DIN ISO 8140



Part No .	Dimensions mm														Weight kg
	d ₁	g	a ₁	a ₂	b ₁	b ₂		d ₂	d ₃	f	L ₁	L ₂	L ₃	r	
	H9	±0.5	H11	^{+0.30} _{-0.16}	B13				± 0.3	± 0.2	± 0.5		± 0.2		
G25x50	25	50	50	50	25	25	^{+0.70} _{+0.15}	M24x3.0	42	1.5	132	100 ± 0.4	36	1.5	1.10
G25x50FG	25	50	50	50	25	25	^{+0.70} _{+0.15}	M24x2.0	42	1.5	132	100 ± 0.4	36	1.5	1.10
G28x56	28	56	55	55	28	28	^{+0.70} _{+0.15}	M27x3.0	48	1.5	148	112 ± 0.4	40	2.0	1.50
G28x56FG	28	56	55	55	28	28	^{+0.70} _{+0.15}	M27x2.0	48	1.5	148	112 ± 0.4	40	2.0	1.50
G30x54FG	30	54	55	55	30	30	^{+0.70} _{+0.15}	M27x2.0	48	1.5	148	110 ± 0.4	40	2.0	1.44
G30x60	30	60	60	60	30	30	^{+0.70} _{+0.15}	M30x3.5	52	1.5	160	120 ± 0.4	42	2.0	1.97
G30x60FG	30	60	60	60	30	30	^{+0.70} _{+0.15}	M30x2.0	52	1.5	160	120 ± 0.4	42	2.0	1.97
G35x54FG	35	54	70	70	35	35	^{+0.70} _{+0.15}	M36x2.0	60	2.0	188	144 ± 0.4	54	3.0	2.93
G35x72	35	72	70	70	35	35	^{+0.70} _{+0.15}	M36x4.0	60	2.0	188	144 ± 0.4	54	3.0	2.93
G35x72FG	35	72	70	70	35	35	^{+0.70} _{+0.15}	M36x2.0	60	2.0	188	144 ± 0.4	54	3.0	2.93
G36x72	35	72	70	70	36	36	^{+0.70} _{+0.15}	M36x4.0	60	2.0	188	144 ± 0.4	54	3.0	2.93
G36x72FG	35	72	70	70	36	36	^{+0.70} _{+0.15}	M36x2.0	60	2.0	188	144 ± 0.4	54	3.0	2.93
G40x84FG	40	84	85	85	40	40	^{+0.70} _{+0.15}	M42x2.0	70	3.0	232	168 ± 0.4	63.5	5.0	5.64
G42x84	42	84	85	85	42	42	^{+0.70} _{+0.15}	M42x4.5	70	3.0	232	168 ± 0.4	63.5	5.0	5.34
G42x84FG	42	84	85	85	42	42	^{+0.70} _{+0.15}	M42x2.0	70	3.0	232	168 ± 0.4	63.5	5.0	5.34
G50x96	50	96	96	96	50	50	^{+0.70} _{+0.15}	M48x5.0	82	3.0	265	192 ± 0.4	73	5.0	7.86
G50x96FG	50	96	96	96	50	50	^{+0.70} _{+0.15}	M48x2.0	82	3.0	265	192 ± 0.4	73	5.0	7.86

–Code for thread:

regular thread no code

regular thread, left-handed LH

fine-pitch thread FG

fine-pitch thread, left-handed FGLH

–for semifinished products, tolerance h 11 according to DIN 178

– radius or 45° beveling (at manufacturer's choice)

–Material:

1.0718(11SMnPb30+C) polished oiled

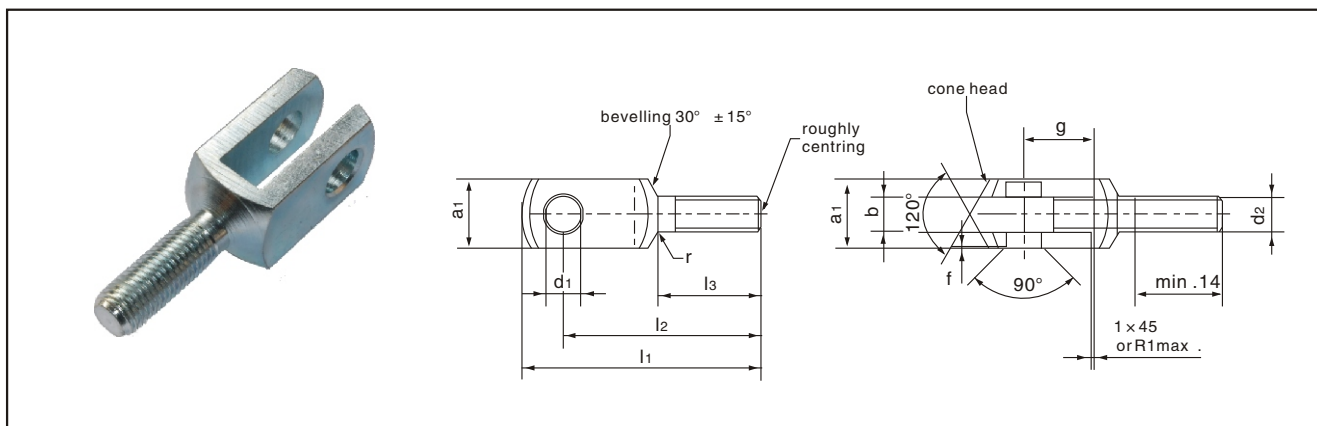
Alternative:stainless steel

–Surface protection

Optional:phosphatized and oiled,electroplated galvanized;passivated
in yellow/clear or white-blue

–Special requests are also available

Clevises with Male Thread



Part No .	d1 h9	g ± 0.5	a1 h11	a2 +0.5 -0.2	b +0.7 +0.15	D2	f ± 0.2	l1 ± 0.2	l2 ± 0.4	l3 ± 0.2	L4	r	Weight 7.85kg/dm3 kg ≈
GM6X12	6	12	12	12	6	M6x1	0.5	44	37	20	15	0.8	0.015
GM8X16	8	16	16	16	8	M8x1.25	0.5	57	47	25	20	0.8	0.036
GM10X20	10	20	20	20	10	M10x1.5	0.5	69	57	30	25	0.8	0.068
GM12X24	12	24	24	24	12	M12x1.75	0.5	82	68	35	30	0.8	0.122
GM14X28	14	28	27	27	14	M14x2	1	94	78	40	35	1.2	0.171
GM16X32	16	32	32	32	16	M16x2	1	108	89	45	40	1.2	0.288
GM20X40	20	40	40	40	20	M20x2.5	1	134	109	55	50	1.5	0.55

–Material:

Low carbon steel 1020, or equivalent steel.

Alternative: stainless steel.

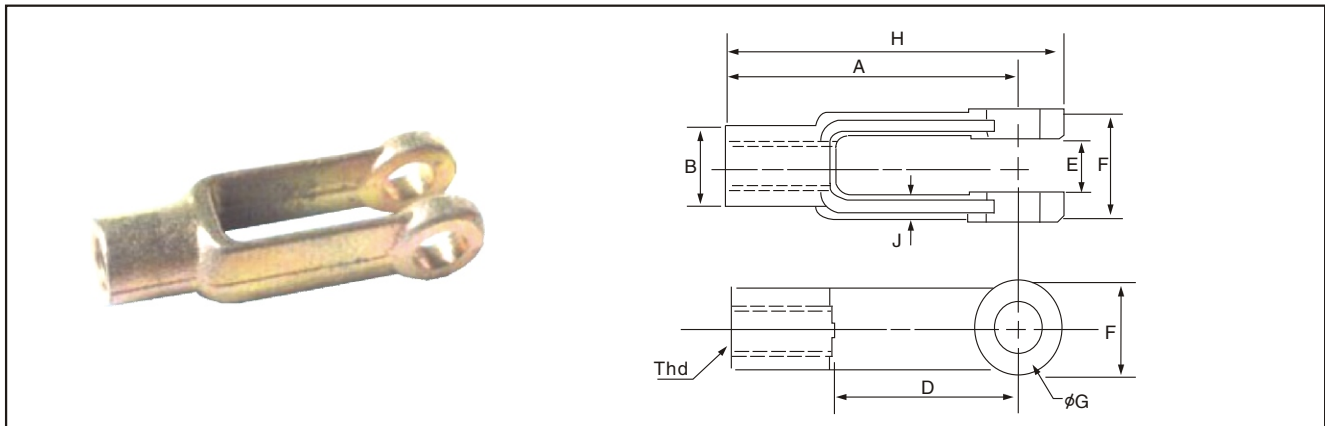
–Surface Protection:

phosphatized and oiled, electroplated

Galvanized, passivated in white–blue or yellow.

–Fine and Coarse thread and left hand thread are possible.

Yoke end • FC series



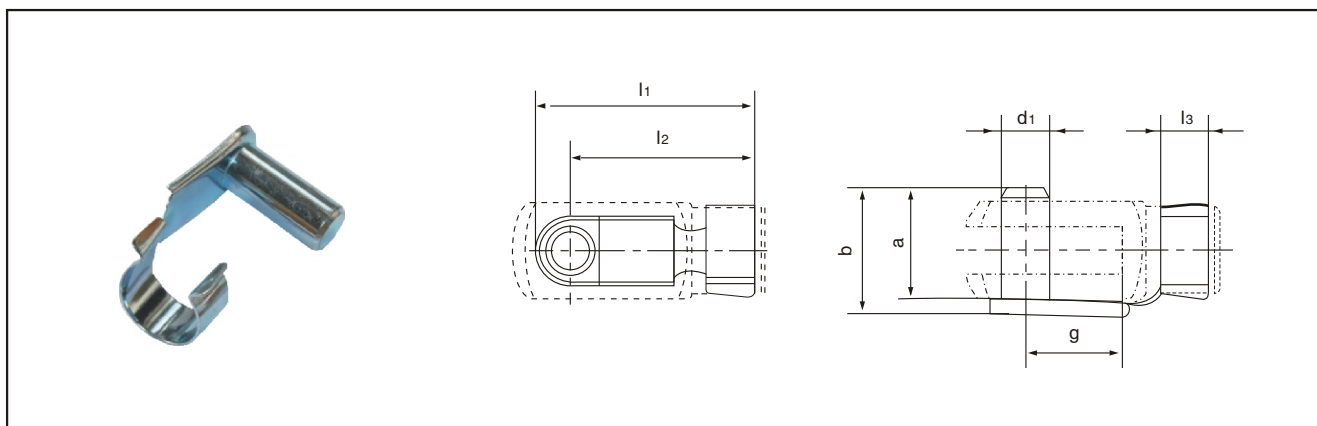
Part No.	Thread	Plating	A	B	D	E	F	G	H	I	J
FC-1	10-32	None	1.563	0.313	1.000	0.188	0.438	0.188	1.770	0.375	0.094
FC2-1	1/4-28	Zinc Yellow	2.000	0.438	1.250	0.281	0.625	0.250	2.210	0.500	0.141
FC2-3	1/4-28	Zinc Yellow	2.000	0.438	1.250	0.281	0.625	0.256	2.210	0.500	0.141
FC3-1	M6 x 1.0	None	2.000	0.438	1.250	0.281	0.625	0.250	2.210	0.500	0.141
FC3-2	M5 x 0.8	Zinc Yellow	2.000	0.438	1.250	0.281	0.625	0.250	2.210	0.500	0.141
FC4-1	10-32	Zinc Clear	2.000	0.438	1.250	0.281	0.625	0.261	2.210	0.500	0.141
FC4-2	10-32	Zinc Yellow	2.000	0.438	1.250	0.281	0.625	0.261	2.210	0.500	0.141
FC-5	5/16-24	Zinc Clear	2.250	0.500	1.438	0.344	0.750	0.313	2.560	0.594	0.172
FC-6	10-32	Zinc Yellow	2.000	0.438	1.250	0.281	0.625	0.197	2.210	0.500	0.141
FC7-1	5/16-18	Zinc Yellow	2.250	0.500	1.438	0.344	0.750	0.313	2.560	0.594	0.172
FC7-2	1/4-28	Zinc Yellow	2.250	0.500	1.438	0.344	0.750	0.313	2.560	0.594	0.172
FC8-1	10-32	Zinc Yellow	2.250	0.500	1.438	0.344	0.750	0.313	2.560	0.594	0.172
FC8-2	1/4-28	Zinc Yellow	2.250	0.500	1.438	0.344	0.750	0.315	2.560	0.594	0.172
FC9-1	5/16-24	Zinc Yellow	2.250	0.500	1.438	0.402	0.750	0.313	2.560	0.594	0.172
FC9-2	5/16-24	Zinc Yellow	2.250	0.500	1.438	0.344	0.750	0.250	2.560	0.594	0.172
FC9-3	M8 x 1.25	None	2.250	0.500	1.438	0.344	0.750	0.313	2.560	0.594	0.172
FC10-1	5/16-24	Zinc Yellow	2.500	0.625	1.625	0.438	0.875	0.344	2.830	0.688	0.188
FC10-2	3/8-24	Zinc Yellow	2.500	0.625	1.625	0.438	0.875	0.25	2.830	0.688	0.188
FC10-3	3/8-16	Zinc Clear	2.500	0.625	1.625	0.438	0.875	0.399	2.830	0.688	0.188
FC10-4	M6 x 1.0	Zinc Clear	2.500	0.625	1.625	0.438	0.875	0.244	2.830	0.688	0.188
FC10-5	1/4-28	Zinc Yellow	2.500	0.625	1.625	0.438	0.875	0.375	2.830	0.688	0.188
FC10-6	5/16-24 LH	Zinc Yellow	2.500	0.625	1.625	0.438	0.875	0.375	2.830	0.688	0.188
FC10-7	M10 x 1.50	None	2.500	0.625	1.625	0.438	0.875	0.394	2.830	0.688	0.188
FC11-1	3/8-24	Zinc Yellow	1.375	0.625	0.844	0.438	0.875	0.375	1.710	0.688	0.188
FC11-2	M6 x 1.0	None	1.375	0.625	0.844	0.438	0.875	0.414	1.710	0.688	0.188
FC11-3	M10 x 1.5	Zinc Yellow	1.375	0.625	0.844	0.438	0.875	0.315	1.710	0.688	0.188
FC11-4	3/8-24 LH	Zinc Yellow	1.375	0.625	0.844	0.438	0.875	0.375	1.710	0.688	0.188
FC-12	7/16-20	Zinc Yellow	2.875	0.719	1.875	0.500	1.000	0.437	3.280	0.813	0.219

–**Material:**Low carbon steel.

–Construction,forged or casting.

–Surface protection,Zinc plate,passivated in yellow or clear

Folding Spring Bolts • FKB series.



Part No.	Suitable for clevis	d1 h11	g	a	b	l1	l2	l3	Mass [kg] 100 pieces
FKB4 x 8	G 4 x 8	4	8	9.5	11.1	19	15	4.5	0.145
FKB5 x 10	G 5 x 10	5	10	12	13.7	23	19	5.5	0.254
FKB5 x 20	G 5 x 20	5	20	12	13.8	33	29	5.5	0.31
FKB6 x 12	G 6 x 12	6	12	14	16.2	28	23	6.5	0.458
FKB6 x 24	G 6 x 24	6	24	14	16.3	40	35	6.5	0.516
FKB8 x 16	G 8 x 16	8	16	19	21.6	37	30	8	1.059
FKB8 x 32	G 8 x 32	8	32	19	21.6	52	46	8	1.155
FKB10 x 20	G 10 x 20	10	20	23	26	46	38	10	1.938
FKB10 x 40	G 10 x 40	10	40	23	26.3	66	58	10	2.046
FKB12 x 24	G 12 x 24	12	24	28	31.1	53	45	12	3.306
FKB12 x 48	G 12 x 48	12	48	28	31.2	78	69	12	3.5
FKB14 x 28	G 14 x 28	14	28	31	34.1	62	52	14	4.722
FKB14 x 56	G 14 x 56	14	56	31	34	92	82	14	5.076
FKB16 x 32	G 16 x 32	16	32	36	39.5	73	62	16	6.94
FKB16 x 64	G 16 x 64	16	64	36	39.2	103	92	16	7.44
FKB20 x 40	G 20 x 40	20	40	45	50	87.5	71.5	16	13

–Material:

Bolt, low carbon steel 1020,

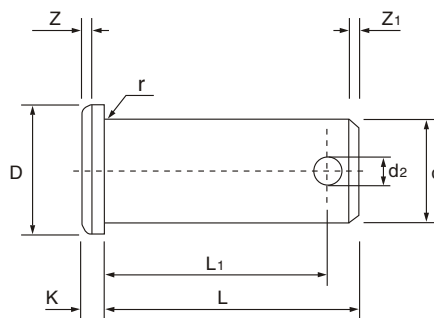
Alternative, stainless steel.

Feather, spring steel 65Mn, quenched

–Surface protection

phosphatized, oiled, zinc plate, passivated in white–blue or yellow.

Bolt with Bore • PB series



Part No.	Dimensions mm									weight
	d h11	D ₂ h14	D h12	K js14	L +0.3≈0	L ₁ +0.5≈0	R	Z	Z ₁ ≈	≈kg
PB4	4	1	6	1	12	10	0.3	0.5	0.8	0.001
PB5	5	1.2	8	1.5	15	12.6	0.3	0.5	0.8	0.003
PB6	6	1.6	9	1.5	18	15.3	0.5	0.5	1	0.005
PB8	8	2	12	2	23	19.5	0.5	1	1	0.010
PB10	10	3.20	14	2	29	24.5	0.5	1	1.5	0.019
PB12	12	4	17	3	35	29.5	0.5	1.5	2	0.034
PB14	14	4	20	3	40	32.5	1	1.5	2.5	0.053
PB16	16	4	21	3	45	37.5	1	1.5	2.5	0.067
PB20	20	5	26	4	54	47	1	2	3	0.125
PB25	25	6	32	5	67	59	1	2	3	0.260

–Material:

Carbon steel .

Alternative:stainless steel.

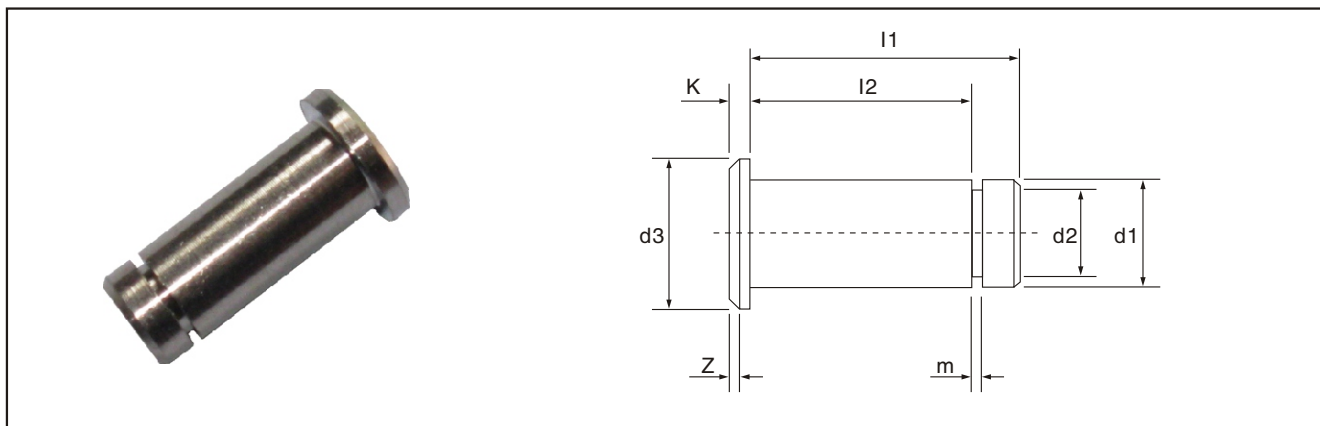
–Surface Protection:

phosphatized and oiled, electroplated

Galvanized ,passivated in white–blue or yellow.

–Special request are available.

Bolt with slot.PA series



Part No.	d1	d2	d3	l1	l2	k	m	z	Weight (Kg) 100pcs
	h11	-0.2	h14	js 15	+0.3	js 14	+0.1		
PA4	4	3.2	6	10.5	8.5	1	0.64	0.5	0.12
PA5	5	4	8	13	10.5	1.5	0.74	0.5	0.24
PA6	6	5	9	15.5	12.5	1.5	0.74	0.5	0.43
PA8	8	6	12	20	16.5	2	0.94	1	0.90
PA10	10	8	14	25	20.5	2	1.05	1	1.72
PA12	12	9	17	30	24.5	3	1.15	1.5	2.95
PA14	14	10	20	33	27.5	3	1.25	1.5	4.10

–Material:

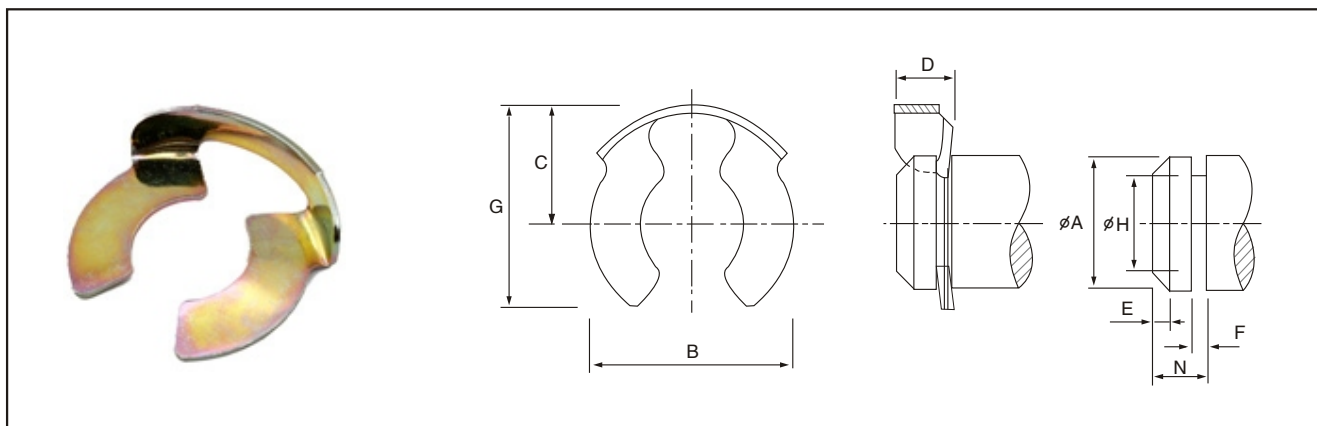
Low carbon steel 1020,
Alternative, stainless steel.

–Surface Protection:

phosphatized and oiled ,zinc plate,passivated in white–blue or yellow

–Special request are available.

Retaining Clips · CLM series



Part No.	ΦA	B	C	D	E	F	G	ΦH	N	Weight/100 in Kgs
CLM4	4.00	7	4.3	2.6	0.50	0.74	7.0	3.2	2.1	0.013
	3.93					0.64		3.1	1.9	
CLM5	5.00	8	5.2	2.8	0.50	0.84	8.4	4.1	2.6	0.016
	4.93					0.64		3.9	2.4	
CLM6	6.00	11	6.8	3.5	0.75	0.84	11.7	5.1	3.1	0.035
	5.93					0.64		4.9	2.9	
CLM8	8.00	12	7.4	4	1.00	1.04	11.8	6.1	3.6	0.039
	7.91					0.84		5.9	3.4	
CLM10	10.00	16	9.5	5	1.00	1.15	15.9	8.2	4.6	0.081
	9.91					0.95		7.8	4.4	
CLM12	12.00	17	11.5	6	1.25	1.25	18.5	9.2	5.1	0.115
	11.89					1.05		8.8	4.9	
CLM14	14.00	19.7	11.9?	6.7	1.25	1.35	20.0	10.2	5.6	0.156
	13.89					1.15		9.8	5.4	
CLM16	16.00	23.2	14.6	7.0	1.50	1.45	24.5	12.2	6.1	0.26
	15.89					1.25		11.8	5.9	
CLM24	24.00	34	18.5	9.0	1.50	1.90	34.0	18.0	8.2	0.65
	23.87					1.70		17.6	7.8	

–Material:

Spring steel 65Mn,hardened and tempered.

–Surface protection:

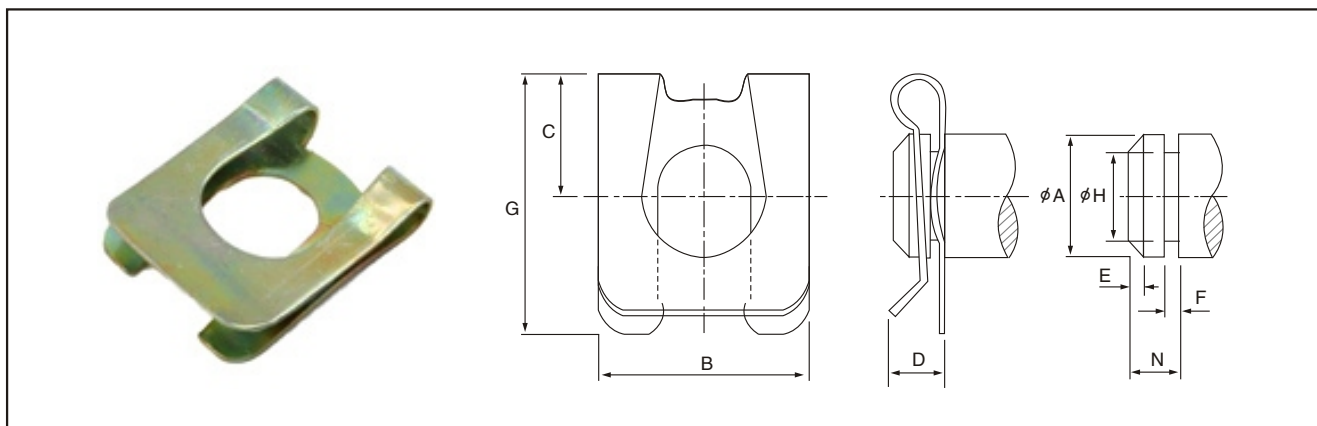
Zinc plate,passivated in yellow or white.

–Easily assembled by hand without tools.

–For use with pins.

–Dimensions are in mm.

Safety Fastner • CFM series



Part No.	ΦA	B	C	D	E	F	G	ΦH	N	Weight /100pcs in Kgs
CFM4	4.00	7	4.0	2.2	0.50	0.74	8.75	3.2	2.1	0.02
	3.93					0.64		3.1	1.9	
CFM5	5.00	9	4.5	2.3	0.50	0.84	11.00	4.1	2.6	0.03
	4.93					0.64		3.9	2.4	
CFM6	6.00	11	6.0	3.3	0.75	0.84	14.25	5.1	3.1	0.07
	5.93					0.64		4.9	2.9	
CFM8	8.00	14	8.0	3.5	1.00	1.04	17.25	6.1	3.6	0.11
	7.91					0.84		5.9	3.4	
CFM10	10.00	18	10.3	4.6	1.00	1.15	21.75	8.2	4.6	0.21
	9.91					0.95		7.8	4.4	
CFM12	12.00	22	12.0	4.6	1.25	1.25	25.50	9.7	5.1	0.29
	11.89					1.05		8.8	4.9	

–Material:

Spring steel 65Mn,hardened and tempered.

–Surface protection:

Zinc plate,passivated in yellow or white.

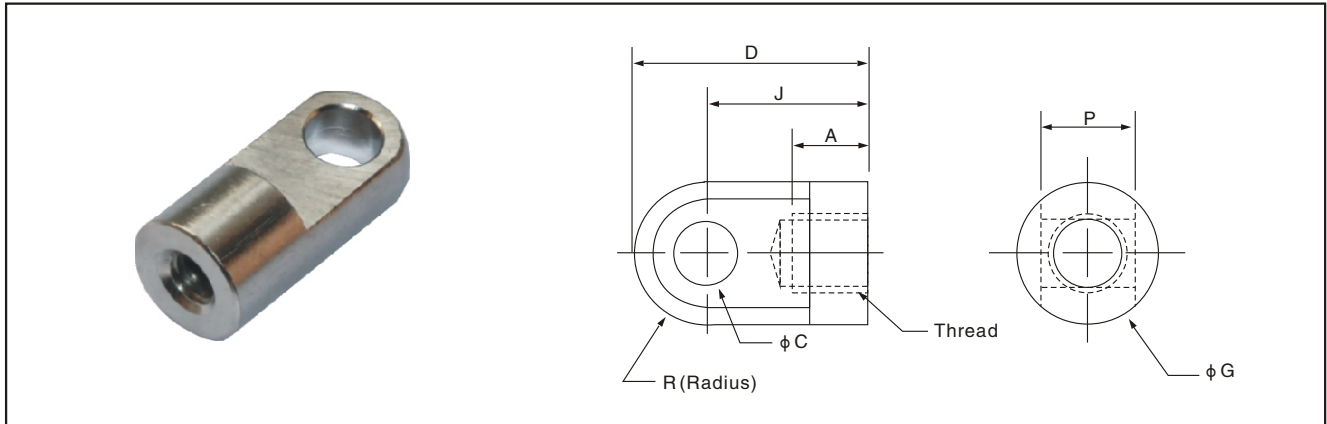
–Easily assembled by hand without tools.

–For use with pins.

–Dimensions are in mm.

–Inch series are also available.

Eyelet • ED series



Part No .	Thread	A	C	D	G	J	P	R
ED4	M3.5x0.6	4	8	12	4.1	16	4	4
ED5	M5x0.8	6	10	16	6.1	21	6	5
ED8	M8x1.25	6	14	20	8.1	27	10	7
ED10	M10x1.5	8	18	25	8.1	29.5	12	9
ED14	M14x1.5	19	25	40	14.1	53	14	12.5

–Material:

Carbon steel

Alternative: Aluminum and Stainless steel.

–Surface Protection:

Zinc plate/clear

–Dimensions are in mm.

–Left hand thread possible.

–Special versions upon request.

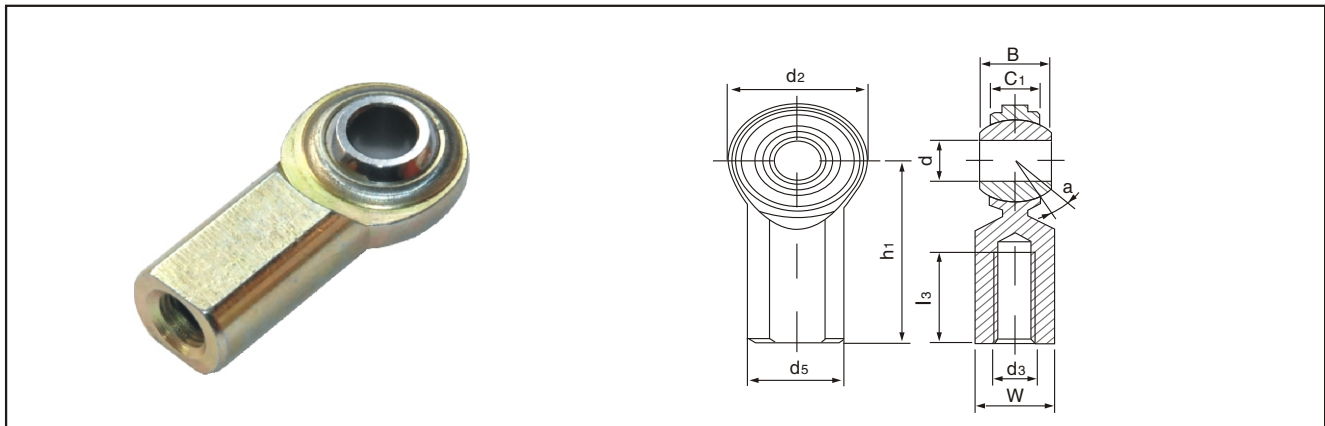


Main Application:

**Industrial equipment
Transportation equipment
Construction equipment
Agricultural equipment
Lawn & Garden equipment**

CF,CF..S, 2 piece metal to metal

Maintenance required



Part No.	Dimensions mm										Load ratings kN	Weight kg
	d	d ₃	B	C ₁	d ₂	h ₁	L ₃	d _k	w	a		
		2B					min			≈		
CF3*	4.826	10-32	7.92	5.94	15.88	26.97	12.70	11.10	7.92	10	9.247	0.018
CF4*	6.350	1/4-28	9.53	6.35	19.05	33.32	17.45	12.80	9.53	13.5	14.269	0.023
CF5*	7.938	5/16-24	11.10	7.92	22.23	34.93	17.45	15.88	11.1	11	17.009	0.036
CF6	9.525	3/8-24	12.70	9.12	25.40	41.28	20.62	18.26	14.27	11	22.627	0.059
CF7	11.113	7/16-20	14.27	10.31	28.58	46.02	23.80	20.62	15.88	10.5	28.400	0.082
CF8	12.70	1/2-20	15.88	11.5	33.32	53.98	26.97	23.80	19.05	10	40.459	0.132
CF10	15.875	5/8-18	19.05	12.29	38.10	63.50	34.93	25.58	22.23	13	43.203	0.195
Cf12	19.05	3/4-16	22.23	15.06	44.45	73.03	39.67	33.32	25.40	12	63.193	0.295

–Right & Left Hand Threads

Load ratings apply only to rod ends without grease fittings. For ratings with grease fittings, please contact us. Grease fittings and stud configurations available.

–Ball

52100 Bearing Steel
Heat Treated
Hard Chrome Plated
Precision Ground

–Body

Carbon Steel

–Protective Coated for Corrosion Resistance

–In inch dimension series.

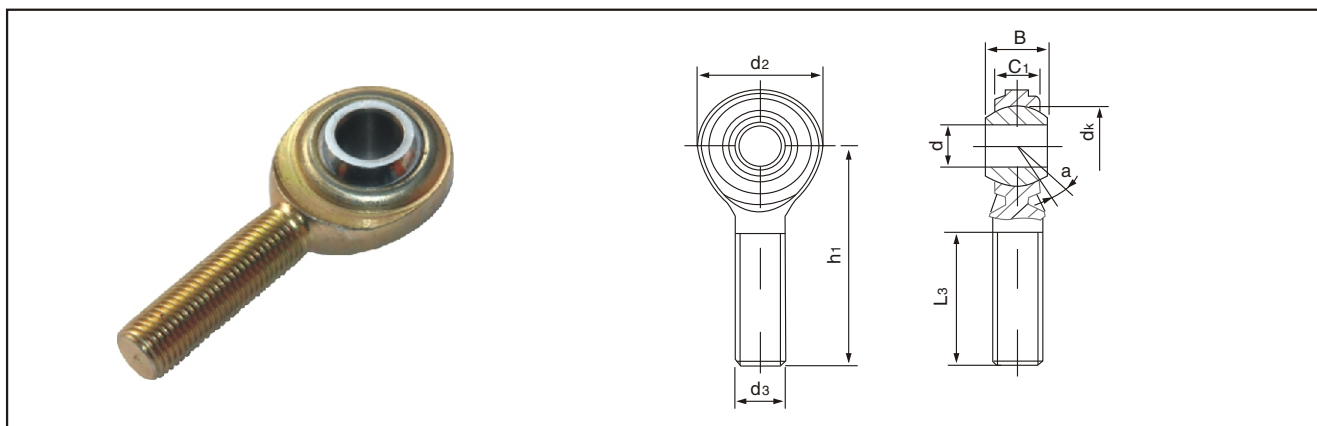
–For left-hand thread, please add suffix "L", e.g. CFL 10.

–Lubricating hole or grease nipple isn't available for sizes marked "*".

–When a grease nipple is required for other sizes, please use the sign CF..S.

CM,CM..S, 2 piece metal to metal

Maintenance required



Part No.	Dimensions mm									Load ratings kn		Weight kg
	d	d ₃	B	C ₁	d ₂	h ₁	L ₃	d _k	a	dyn	stat	
		3A					min		≈	C	C0	
CM3*	4.826	10-32	7.92	5.94	15.88	31.75	19.05	11.10	10	5.355		0.014
CM4*	6.350	1/4-28	9.53	6.35	19.05	39.67	25.40	12.70	13.5	9.839		0.018
CM5*	7.938	5/16-24	11.10	7.92	22.23	47.63	31.75	15.88	11	15.910		0.032
CM6	9.525	3/8-24	12.70	9.12	25.40	49.23	31.75	18.26	11	22.542		0.050
CM7	11.113	7/16-20	14.27	10.31	28.58	53.98	34.93	20.62	10.5	28.223		0.068
CM8	12.700	1/2-20	15.88	11.5	33.32	61.93	38.10	23.80	10	37.087		0.109
CM10	15.875	5/8-18	19.05	12.29	38.10	66.68	41.28	25.58	13	43.302		0.163
CM12	19.050	3/4-16	22.23	15.06	44.45	73.03	44.45	33.32	12	63.193		0.259

–Right & Left Hand Threads

Load ratings apply only to rod ends without grease fittings. For ratings with grease fittings, please contact us. Grease fittings and stud configurations available.

–Ball

52100 Bearing Steel
Heat Treated
Hard Chrome Plated
Precision Ground

–Body

Carbon Steel
Protective Coated for Corrosion Resistance

–In inch dimension series.

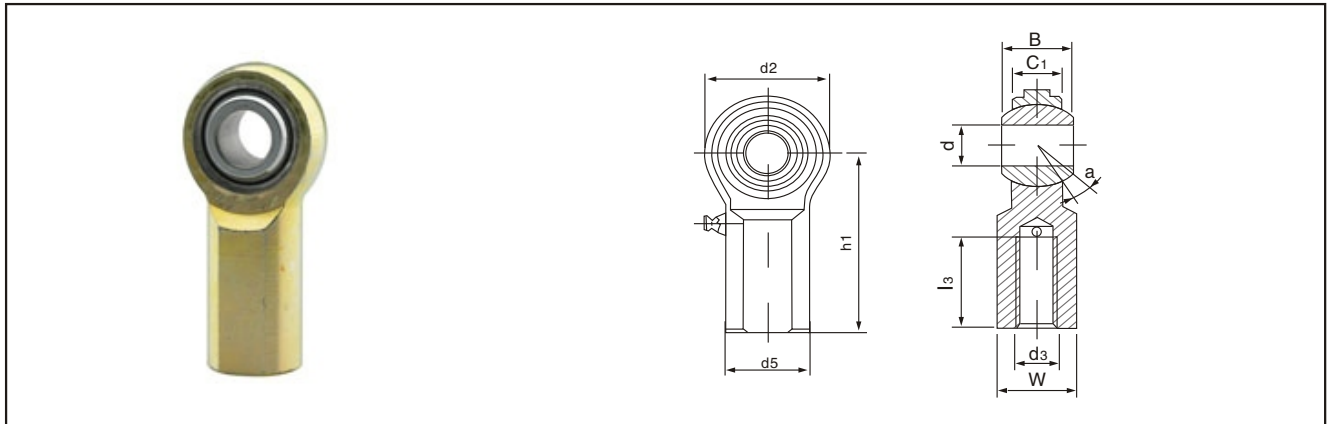
–For left-hand thread, please add suffix "L", e.g. CML 10.

–Lubricating hole or grease nipple isn't available for sizes marked "**".

–When a grease nipple is required for other sizes, please use the sign CM..S.

JF,JF..S series

Maintenance required



Part No.	Dimensions mm										Load ratings kN	Weight kg
	d	d3	B	C1	d2	h1	L3	dk	W	a		
		2B					min			≈		
JF2*	3.175	6-32	6.35	4.75	12.70	20.62	11.10	7.92	6.35	8	5.344	0.009
JF3*	4.826	10-32	7.92	6.35	15.88	26.97	14.27	11.10	7.92	6.5	6.805	0.017
JF4*	6.350	1/4-28	9.53	7.14	19.05	33.32	19.05	12.70	9.53	8	11.297	0.027
JF5*	7.938	5/16-24	11.10	8.74	22.23	34.93	19.05	15.88	11.10	7	13.934	0.042
JF6	9.525	3/8-24	12.70	10.31	25.40	41.28	23.80	18.26	14.27	6	17.416	0.069
JF7	11.113	7/16-20	14.27	11.10	28.58	46.02	26.97	20.62	15.88	7	18.759	0.090
JF8	12.70	1/2-20	15.88	12.70	33.32	53.98	30.15	23.80	19.05	6	29.624	0.149
JF10	15.875	5/8-18	19.05	14.27	38.10	63.50	38.10	28.58	22.23	8	32.752	0.216
JF12	19.05	3/4-16	22.23	17.45	44.45	73.03	44.45	33.32	25.40	7	51.237	0.328
JF14	22.225	7/8-14	22.23	19.43	50.80	85.73	47.63	34.93	28.58	3.5	82.185	0.467
JF14-1	22.225	7/8-14	22.23	17.45	50.80	88.90	46.02	33.32	30.15	6	101.601	0.467
JF16	25.40	1 1/4-12	34.93	25.40	69.58	104.78	53.98	47.63	38.10	8.5	193.670	0.964
JF16-1	25.40	1-14	34.93	25.40	69.85	104.78	53.98	47.63	38.10	8.5	193.670	1.093
JF16-2	25.40	1-12	34.93	25.40	69.85	104.78	53.98	47.63	38.10	8.5	193.670	1.093

–Right & Left Hand Female Threads

–Body

low carbon steel,zinc plated,chromate treated

–Ball

GCr15,equivalent 52100 steel,RC 56 min.,hard chromate plated.

–Outer Race

lined with bronze liner.

–In inch dimension series.

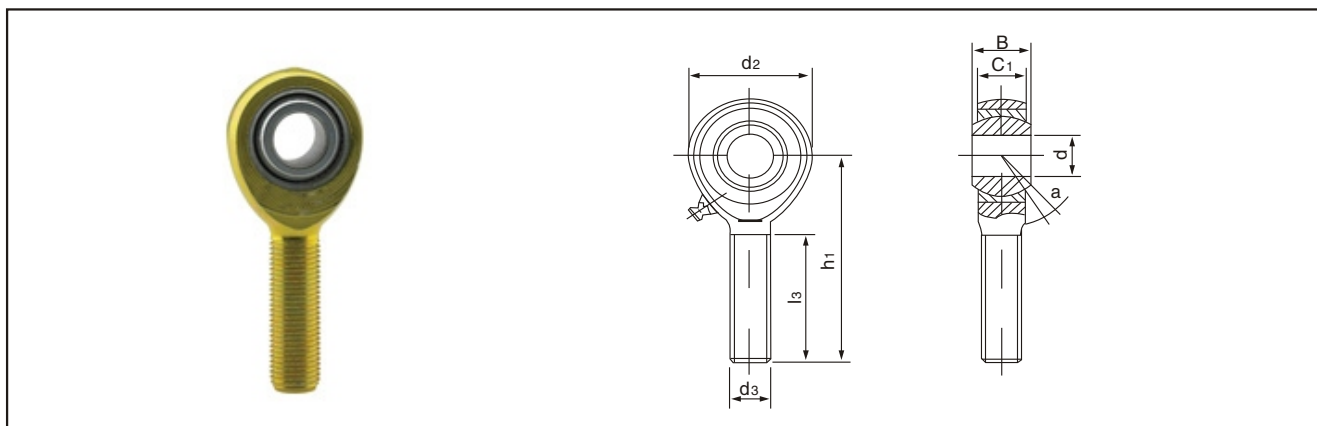
–For left–hand thread,please add surffix "L",e.g.JFL 10.

–Lubricating hole or grease nipple isn't available for sizes marked "**".

–When a grease nipple is required for other sizes,please use the sign JF..S.

JM,JM..S series

Maintenance required



Part No.	Dimensions mm									Load ratings kN		Weight kg
	d	d ₃	B	C ₁	d ₂	h ₁	L ₃	d _k	a	dyn	stat	
		3A					min		≈	C	C0	
JM2*	3.175	6-32	6.35	4.75	12.70	23.80	14.27	7.92	8	2.236		0.006
JM3*	4.826	10-32	7.92	6.35	15.88	31.75	19.05	11.10	6.5	5.197		0.013
JM4*	6.350	1/4-28	9.53	7.14	19.05	39.67	25.40	12.70	8	9.600		0.020
JM5*	7.938	5/16-24	11.10	8.74	22.23	47.63	31.75	15.88	7	12.385		0.033
JM6	9.525	3/8-24	12.70	10.31	25.40	49.23	31.75	18.26	6	17.416		0.051
JM7	11.113	7/16-20	14.27	11.10	28.58	53.98	34.93	20.62	7	18.759		0.073
JM8	12.70	1/2-20	15.88	12.70	33.32	61.93	38.10	23.80	6	29.624		0.113
JM10	15.875	5/8-18	19.05	14.27	38.10	66.68	41.28	28.58	8	32.752		0.173
JM12	19.05	3/4-16	22.23	17.45	44.45	73.03	44.45	33.32	7	51.237		0.273
JM14	22.225	7/8-14	22.23	19.43	50.80	85.73	50.80	34.93	3.5	82.185		0.411
JM14-1	22.225	7/8-14	22.23	17.45	50.80	85.73	47.63	33.32	6	101.601		0.411
JM16	25.40	1 1/4-12	34.93	25.40	69.85	104.78	53.98	47.63	8.5	193.670		1.091
JM16-1	25.40	1-14	34.93	25.40	69.85	104.78	53.98	47.63	8.5	193.670		0.965
JM16-2	25.40	1-12	34.93	25.40	69.85	104.78	53.98	47.63	8.5	193.670		0.965

–Right & Left Hand Male Threads

–**Body**

low carbon steel,zinc plated,chromate treated

–**Ball**

GCr15,equivalent 52100 steel,RC 56 min.,hard chromate plated.

–**Outer race**

lined with bronze liner.

–In inch dimension series.

–For left-hand thread,please add surffix "L",e.g.JML 10.

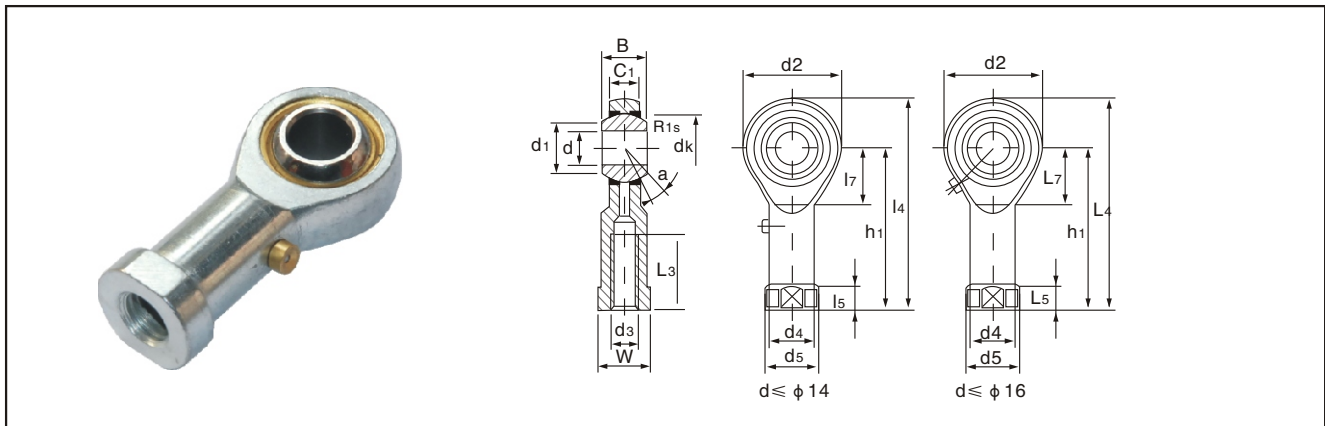
–Lubricating hole or grease nipple isn't available for sizes marked "*".

–When a grease nipple is required for other sizes,please use the sign JM..S.

–Load ratings apply only to rod ends without lubricating hole or grease nipple.

PHS series

Maintenance required



Part No.																Load ratings kn		Weight kg
	d	d ₃	B	C ₁	L ₃	W	d ₂	d ₁	h ₁	L ₄	L ₅	d ₄	d ₅	d _k	a	dyn	stat	
		6H			min										≈	C	C0	
PHS5	5	M5x0.8	8	6	10	9	16	7.7	27	35	4	8.5	11	11.11	13	3.25	5.70	0.016
PHS6	6	M6x1.0	9	6.75	12	11	18	8.96	30	39	5	10.0	13	12.70	13	4.30	7.20	0.022
PHS8	8	M8x1.25	12	9	16	14	22	10.4	36	47	5	12.5	16	15.875	14	7.20	11.6	0.047
PHS10	10	M10x1.5	14	10.5	20	17	26	12.9	43	56	6.5	15.0	19	19.05	13	10.0	14.5	0.077
PHS10-1	10	M10x1.25	14	10.5	20	17	26	12.9	43	56	6.5	15.0	19	19.05	13	10.0	14.5	0.077
PHS12	12	M12x1.75	16	12	22	19	30	15.4	50	65	6.5	17.5	22	22.225	13	13.4	17.0	0.10
PHS12-1	12	M12x1.25	16	12	22	19	30	15.4	50	65	6.5	17.5	22	22.225	13	13.4	17.0	0.10
PHS14	14	M14x2.0	19	13.5	25	22	34	16.9	57	74	8	20.0	25	25.40	16	17.0	24.0	0.16
PHS14-1	14	M14x1.5	19	13.5	25	22	34	16.9	57	74	8	20.0	25	25.40	16	17.0	24.0	0.16
PHS16	16	M16x2.0	21	15	28	22	40	19.4	64	84	8	22.0	27	28.575	15	21.6	28.5	0.22
PHS16-1	16	M16x1.5	21	15	28	22	40	19.4	64	84	8	22.0	27	28.575	15	21.6	28.5	0.22
PHS18	18	M18x1.5	23	16.5	32	27	44	21.9	71	93	10	25.0	31	31.75	15	26.0	42.5	0.32
PHS20	20	M20x1.5	25	18	33	30	50	24.4	77	102	10	27.5	34	34.925	14	21.5	42.5	0.42
PHS22	22	M22x1.5	28	20	37	32	54	25.8	84	111	12	30.0	38	38.10	15	38.0	57.0	0.54
PHS25	25	M24x2.0	31	22	42	36	60	29.6	94	124	12	33.5	42	42.85	15	47.5	68.0	0.73
PHS28	28	M27x2.0	35	24	48	41	66	32.3	103	136	14	37.5	46	47.60	15	58.0	75.0	0.98
PHS30	30	M30x2.0	37	25	51	41	70	34.8	110	145	15	40.0	50	50.80	17	64.0	88.0	1.10

–Right & left–hand female thread.

–Body

Low carbon steel, zinc plated, yellow/clear or white–blue passivated.

–Ball

GCr15, equivalent SAE52100 steel, RC 56 min., hard chromate plated.

–Outer race Lined with bronze liner.

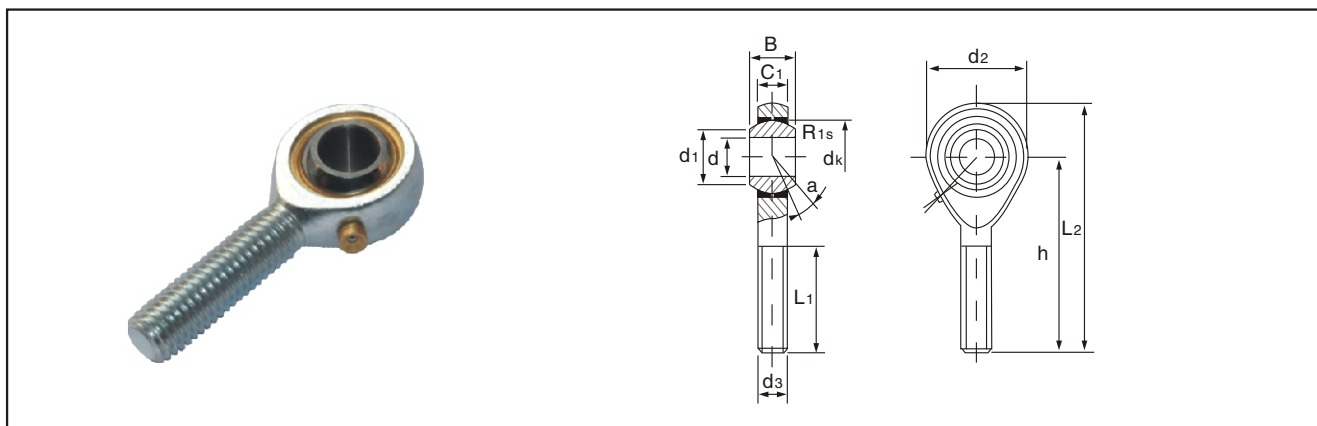
–Surface of body zinc plated,

–Body with a lubricating hole or grease nipple.

–For left–hand thread, please add suffix "L", e.g. PHSL 8.

POS series

Maintenance required



Part No.	Dimensions mm												Load ratings kN		Weight kg
	d	d3	B	C1	L1	d1	d2	h	L2	dk	R1s	a	dyn	stat	
		6g			min							≈	C	C₀	
POS5	5	M5x0.8	8	6	20	7.7	16	33	41	11.11	0.3	13	3.25	5.70	0.013
POS6	6	M6x1.0	9	6.75	22	8.96	18	36	45	12.70	0.3	13	4.30	7.20	0.020
POS8	8	M8x1.25	12	9	25	10.4	22	42	53	15.875	0.3	14	7.20	11.6	0.030
POS10	10	M10x1.5	14	10.5	29	12.9	26	48	61	19.05	0.3	13	10.0	14.5	0.055
POS12	12	M12x1.75	16	12	33	15.4	30	54	69	22.225	0.3	13	13.4	17.0	0.085
POS14	14	M14x2.0	19	13.5	36	16.9	34	60	77	25.40	0.3	16	17.0	24.0	0.14
POS16	16	M16x2.0	21	15	40	19.4	40	66	86	28.575	0.3	15	21.6	28.5	0.21
POS18	18	M18x1.5	23	16.5	44	21.9	44	72	94	31.75	0.3	15	26.0	42.5	0.28
POS20	20	M20x1.5	25	18	47	24.4	50	78	103	34.925	0.3	14	31.5	52.5	0.38
POS22	22	M22x1.5	28	20	51	25.8	54	84	111	38.10	0.3	15	38.0	57.0	0.48
POS25	25	M24x2.0	31	22	57	29.6	60	94	124	42.85	0.3	15	47.5	68.0	0.64
POS28	28	M27x2.0	35	24	62	213	66	103	136	47.60	0.3	15	58.0	75.5	0.96
POS30	30	M30x2.0	37	25	66	34.8	70	110	145	50.80	0.3	17	64.0	88.0	1.10

–Right & left–hand male thread.

–Body

Low carbon steel,zinc plated,yellow/clear or white–blue passivated.

–Ball

GCr15,equivalent SAE 52100 steel,RC 56 min.,hard chromate plated.

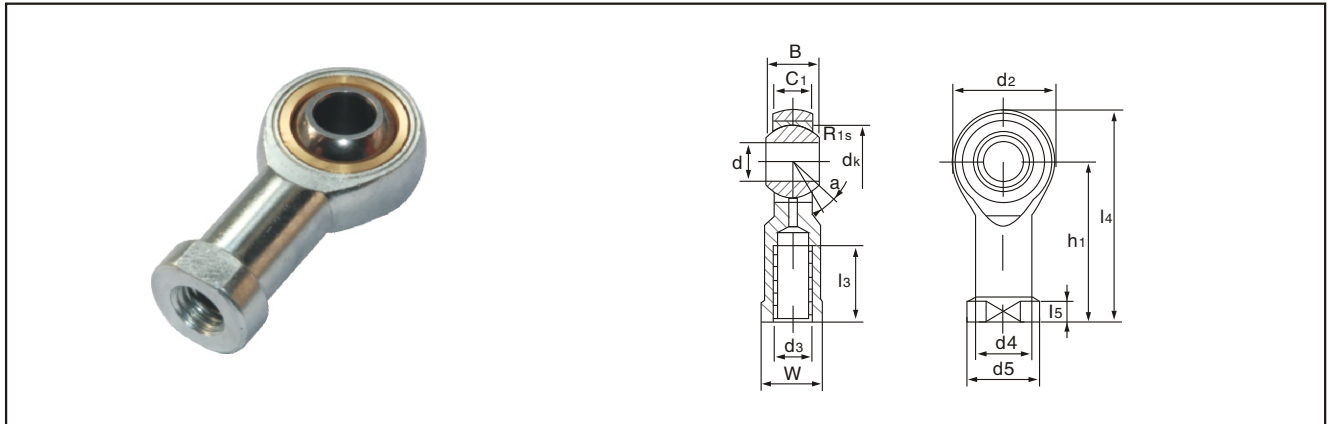
–Outer race Lined with bronze liner.

–Surface of rod body zinc plated,rot body with a lubricating hole or grease nipple.

–For left–hand thread,please add suffix "L",e.g.POSL 8.

SI..T/K series

Maintenance free



Part No.	Dimensions mm														Load ratings kN		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	a	dyn	stat	
		6H			min									≈	C	C0	
SI5T/K	5	M5x0.8	8	6	10	9	18	27	36	4	8.5	11	11.11	13	5.70	6.00	0.016
SI6T/K	6	M6x1.0	9	6.75	12	11	20	30	40	5	10	13	12.70	13	7.20	7.65	0.022
SI8T/K	8	M8x1.25	12	9	16	14	24	36	48	5	12.5	16	15.875	14	11.60	12.9	0.047
SI10T/K	10	M10x1.5	14	10.5	20	17	28	43	57	6.5	15	19	19.05	13	14.5	18.0	0.077
SI12T/K	12	M12x1.25	16	12	22	19	32	50	66	6.5	17.5	22	22.225	13	17.0	24.0	0.100
SI14T/K	14	M14x2.0	19	13.5	25	22	36	57	75	8	20	25	25.40	16	24.0	31.0	0.160
SI16T/K	16	M16x2.0	21	15	28	22	42	64	85	8	22	27	28.575	15	28.5	39.0	0.220
SI18T/K	18	M18x1.5	23	16.5	32	27	44	71	93	10	25	31	31.75	15	42.5	47.5	0.320
SI20T/K	20	M20x1.5	25	18	33	30	50	77	102	10	27.5	34	34.925	14	42.5	57.0	0.420
SI22T/K	22	M22x1.5	28	20	37	32	54	84	111	12	30	38	38.10	15	57.0	68.0	0.540
SI25T/K	25	M24x2.0	31	22	42	36	60	94	124	12	33.5	42	42.85	15	68.0	85.0	0.720
SI28T/K	28	M27x2.0	35	24	51	41	66	103	136	14	37	46	47.60	15	86.0	107.0	0.820
SI30T/K	30	M30x2.0	37	25	51	41	70	110	145	15	40	50	50.80	17	88.0	114.0	1.100
SI35T/K	35	M36x2.0	43	28	56	50	81	125	165.5	17	46	58	57.10	16			1.600
SI40T/K	40	M42x2.0	49	33	60	55	91	142	187.5	19	53	65	66.60	17			2.400
SI50T/K	50	M48x2.0	60	45	65	65	117	160	218.5	23	65	75	82.50	12			5.000

–Right & left–hand female thread.

–Body

Low carbon steel,zinc plated,yellow/clear or white–blue passivated.

–Ball

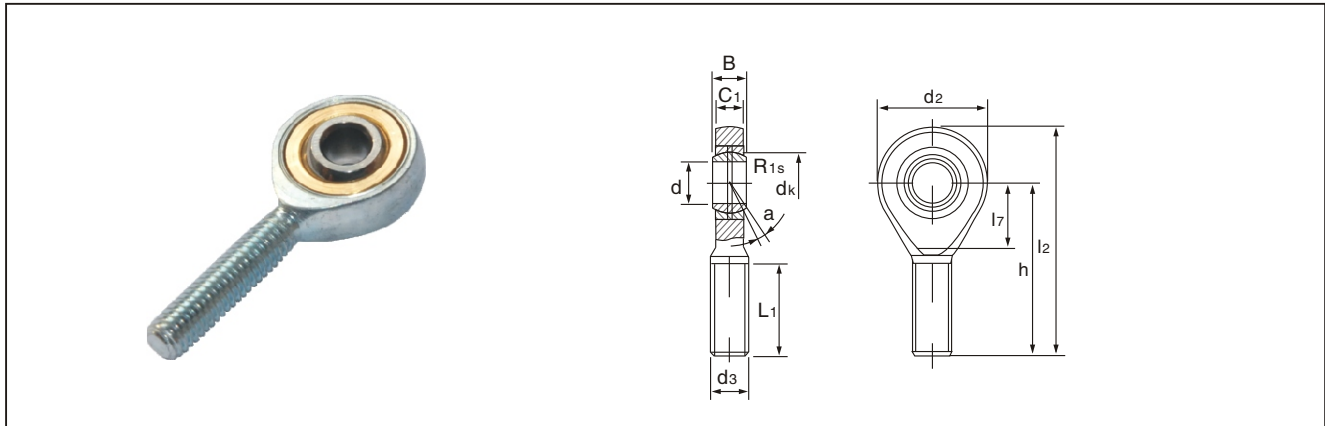
GCr15, equivalent SAE52100 steel, RC 56 min., hard chromate plated.

–Outer race Lined with bronze liner and PTFE.

–For left–hand thread, please add suffix "L", e.g. SI18T/K.

SA..T/K

Maintenance free



Part No.	Dimensions mm												Load ratings kN		Weight kg
	d	d ₃	B	C ₁	L ₁	d ₂	L ₇	h	L ₂	d _k	R _{1s}	a	dyn	stat	
		6g			min.		min.					≈	C	C₀	
SA5T/K	5	M5x0.8	8	6	19	18		33	42	11.11	0.3	13	5.70	6.00	0.013
SA6T/K	6	M6x1.0	9	6.75	21	20		36	46	12.70	0.3	13	7.20	7.65	0.020
SA8T/K	8	M8x1.25	12	9	25	24		42	54	15.875	0.3	14	11.6	12.9	0.038
SA10T/K	10	M10x1.5	14	10.5	28	28		28	62	19.05	0.3	13	14.5	18.0	0.055
SA12T/K	12	M12x1.75	16	12	32	32		54	70	22.225	0.3	13	17.0	24.0	0.085
SA14T/K	14	M14x2.0	19	13.5	36	36	18	60	78	25.40	0.3	16	24.0	31.0	0.14
SA16T/K	16	M16x2.0	21	15	37	42	21	66	87	28.575	0.3	15	28.5	39.0	0.21
SA18T/K	18	M18x1.5	23	16.5	41	44	22	72	94	31.75	0.3	15	42.5	47.5	0.28
SA20T/K	25	M20x1.5	25	18	45	50	25	78	103	34.925	0.3	14	42.5	57.0	0.38
SA22T/K	22	M22x1.5	28	20	48	54	27	84	111	38.10	0.3	15	57.0	68.0	0.48
SA25T/K	25	M24x2.0	31	22	55	60	30	94	124	42.85	0.3	15	68.0	85.0	0.64
SA28T/K	28	M27x2.0	35	24	62	66	33	103	136	47.60	0.3	15	86.0	107.0	0.80
SA30T/K	30	M30x2.0	37	25	66	70	35	110	145	50.80	0.3	17	88.0	114.0	1.10
SA35T/K	35	M36x2.0	43	28	85	81	41	140	180.5	57.10	0.3	16			1.64
SA40T/K	40	M42x2.0	49	33	90	91	46	150	195.5	66.60	0.3	17			2.30
SA50T/K	50	M48x2.0	60	45	105	117	59	185	243.5	82.50	0.3	12			4.80

–Right & left–hand male thread.

–Body

Low carbon steel, zinc plated, yellow/clear or white–blue passivated.

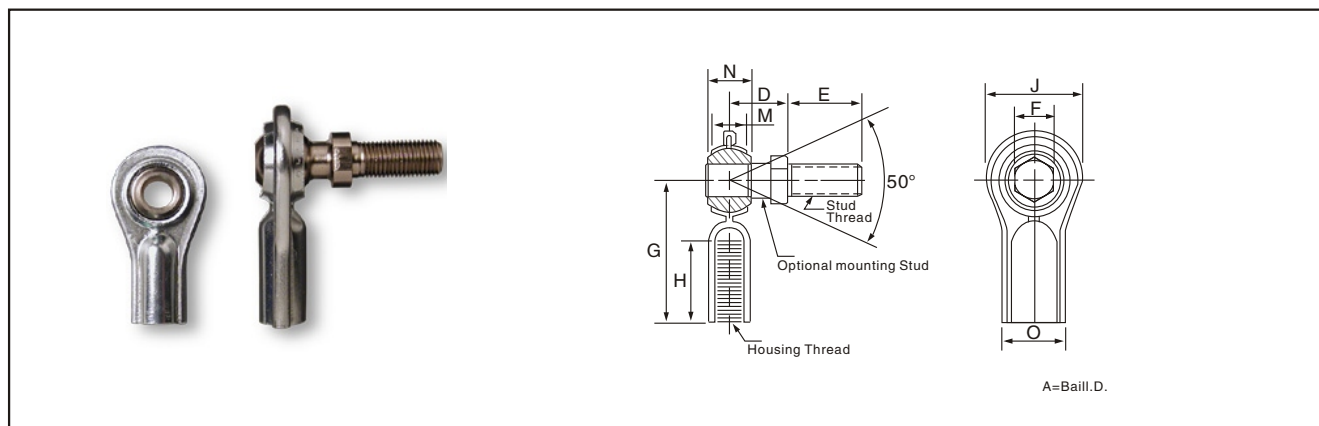
–Ball

GCr15, equivalent to SAE52100 steel, RC 56 min., hard chromate plated.

–Outer race Lined with bronze liner and PTFE.

–For left–hand thread, please add suffix "L", e.g. SAL18T/K.

Stamped Rod End • RSH series



Part No.	Thread	A ball ID	D	E	F	G	H	J	M	N	O
RSH-3	10-32	0.190	0.437	0.437	0.312	1.062	0.500	0.750	0.250	0.312	0.450
RSH-4	1/4-28	0.251	0.460	0.562	0.375	1.312	0.687	0.850	0.287	0.375	0.515
RSH-5	5/16-24	0.313	0.531	0.687	0.437	1.375	0.687	1.015	0.305	0.437	0.590
RSH-6	3/8-24	0.376	0.644	0.906	0.500	1.625	0.875	1.125	0.400	0.500	0.725
RSH-6-L1	3/8-24	0.376				1.625	0.875	1.125	0.400	0.750	0.725
RSH-6-L2	3/8-24	0.376				1.625	0.875	1.125	0.400	0.625	0.725
RSH-8	1/2-20	0.501	0.875	1.125	0.625	2.125	1.125	1.470	0.500	0.625	1.010

-Ball

52100 Bearing Steel or low carbon steel

Heat Treated

Hard Chrome Plated

Precision Ground

-Body

Carbon Steel

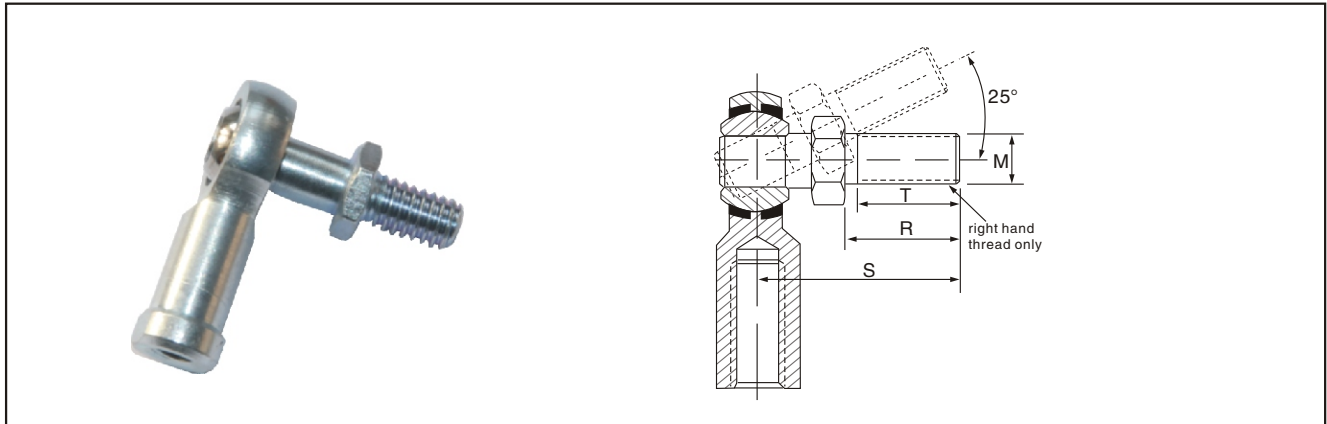
-Protective Coated for Corrosion Resistance

-In inch dimension series.

-For left-hand thread, please add suffix "L", e.g. RSHL-6.

-Rod end with stud, please add suffix "s", e.g. RSH-6S

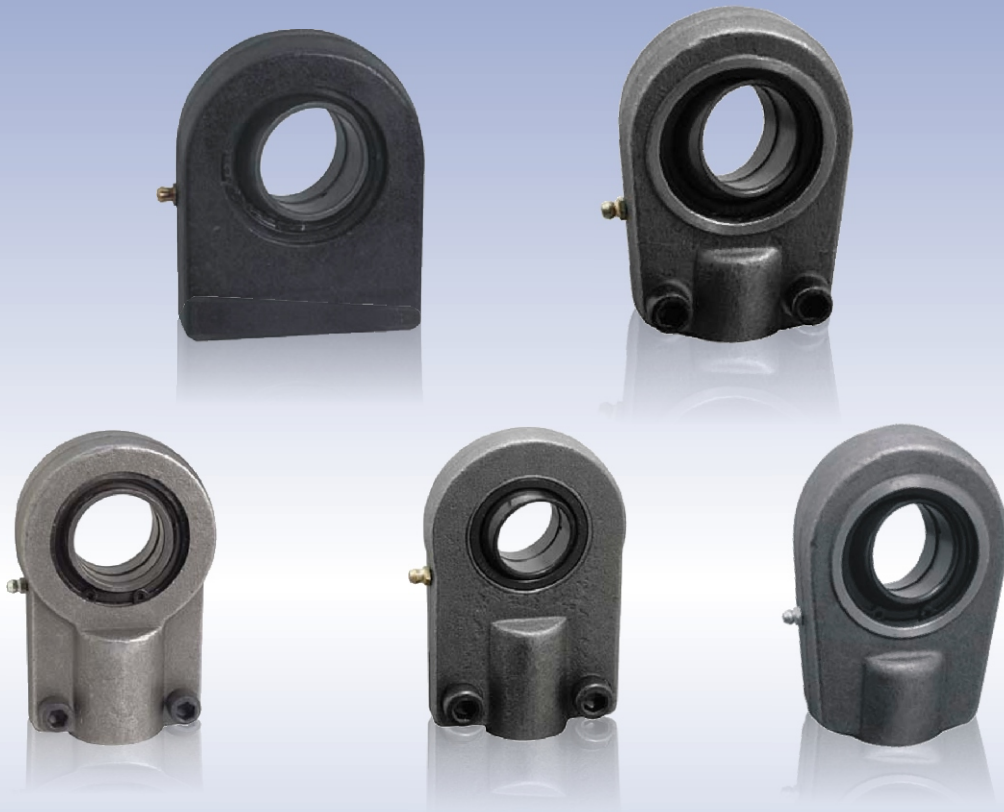
Studded Rod End



Suitable for rod end size	R	S	T	M
	$+.010$ $-.010$	$+.030$ $-.030$	Ref	UNF-2A
3	.500	.969	.437	.1900-32
4	.562	1.047	.500	.2500-28
5	.687	1.234	.594	.3125-24
6	.906	1.540	.812	.3750-24
7	1.125	1.930	1.000	.4375-20
8	1.125	2.000	1.000	.5000-20
10	1.500	2.500	1.375	.6250-18
12	1.812	3.000	1.625	.7500-16

–All dimensions are in inches.

Rod End for Hydraulic Cylinders

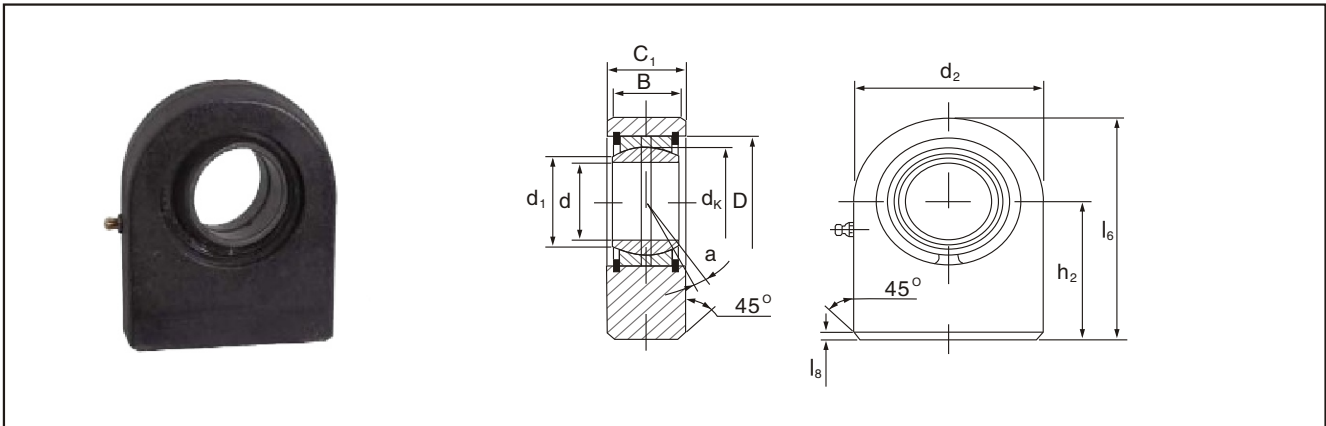


Main Application:

**Industrial equipment
Hydraulic equipment
Agricultural equipment**

Rod ends for hydraulic components GF..DO

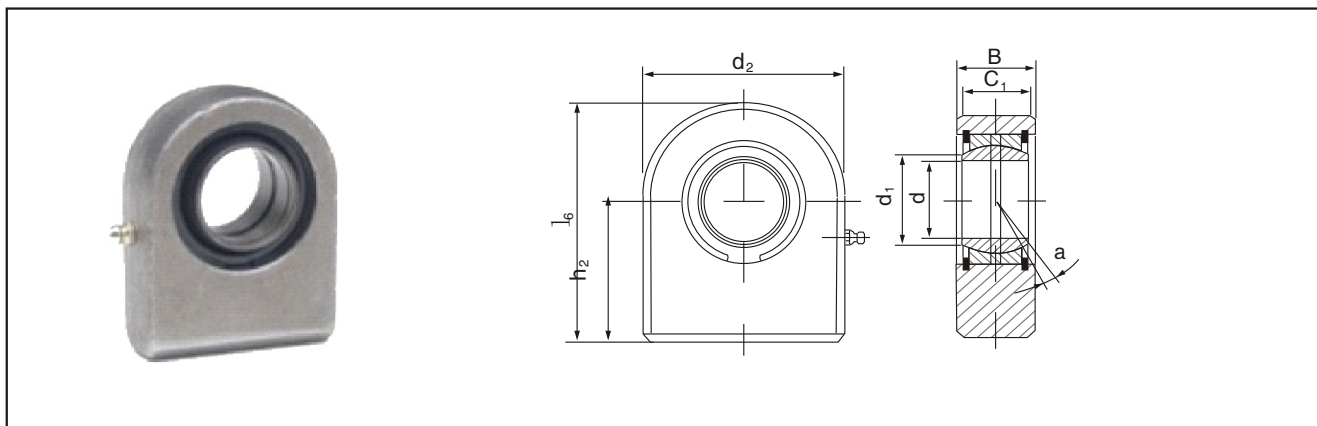
Maintenance required



Part No.	Dimensions mm										Load ratings kN		Weight kg
	d	B	C ₁	d ₂	L ₆	L ₈	h ₂	d _k	d ₁	D	dyn	stat	
											C	C ₀	
GF20DO	20	16	19	50	63	2	38	29	24.2	35	30.0	67.0	0.35
GF25DO	25	20	23	55	72.5	2	45	35.5	29.3	42	48.0	69.5	0.53
GF30DO	30	22	28	65	83.5	2	51	40.7	34.2	47	62.0	118	0.87
GF35DO	35	25	30	83	102.5	2	61	47	39.8	55	80.0	196	1.50
GF40DO	40	28	35	100	119	3	69	53	45.0	62	100	300	2.40
GF45DO	45	32	40	110	132	3	77	60	50.8	68	127	380	3.40
GF50DO	50	35	40	123	149.5	3	88	66	55.9	75	156	440	4.40
GF60DO	60	44	50	140	170	4	100	80	66.8	90	245	570	7.10
GF70DO	70	49	55	164	197	4	115	92	77.9	105	315	695	10.5
GF80DO	80	55	60	180	231	4	141	105	89.4	120	400	780	15.0
GF90DO	90	60	65	226	263	4	150	115	98.1	130	490	1340	23.5
GF100DO	100	70	70	250	295	4	170	130	109.5	150	610	1500	31.5
GF110DO	110	70	80	295	332.5	4	185	140	121.2	160	655	2160	48.5
GF120DO	120	85	90	360	390	4	210	160	135.5	180	950	3250	79.0

- Rod end housing with right or left–hand female thread.
- It is made up of a radial spherical plain bearing GE..ES or GE..ES 2RS and rod end housing.
- Rod end housing with a lubricating hole or grease nipple.
- Sealed design also available,e.g.GF 70 DO 2RS.

Rod ends for hydraulic components GF..LO

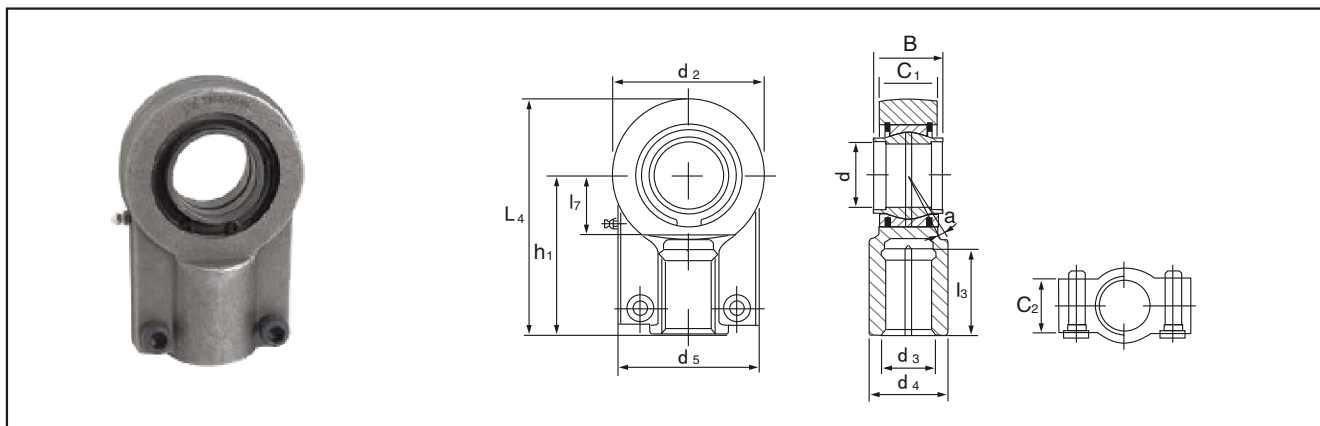


Part No.	Dimensions mm								Load ratings kN		Weight kg
	d	B	C ₁	d ₂	L ₆	h ₂	d ₁	a	dyn	stat	
								≈	c	C ₀	
GF20LO	20	20	19	50	63	38	25	4	30	74	0.36
GF25LO	25	25	23	55	72.5	45	30.5	4	48	95	0.54
GF32LO	32	32	27	70	100	65	38	4	62.5	168	1.12
GF40LO	40	40	35	100	119	69	46	4	100	268	2.50
GF50LO	50	50	40	123	149.5	88	57	4	156	362	4.60
GF63LO	63	63	50	145	179.5	107	71.5	4	248	570	9.30
GF70LO	70	70	55	164	197	115	79	4	315	800	11.25
GF80LO	80	80	60	180	231	141	91	4	400	874	15.75
GF90LO	90	90	65	226	263	150	99	4	490	1045	24.00
GF100LO	100	100	70	250	295	170	113	4	610	1330	33.95
GF110LO	110	110	80	295	332.5	185	124	4	655	1490	49.00

- Rod end housing with right or left-hand female thread.
- It is made up of a radial spherical plain bearing GE..LO and rod end housing.
- Rod end housing with a lubricating hole or grease nipple.
- Sealed design also available, e.g. GF 70 HO 2RS.

Rod ends for hydraulic components GIHN-K..LO

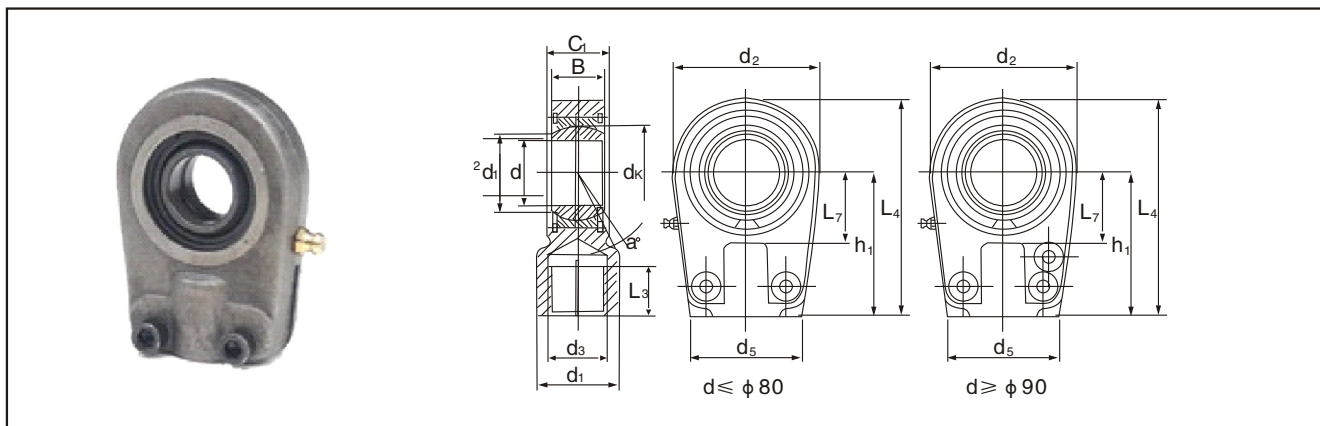
Maintenance required, with female thread and locking nuts



Part No.	Dimensions mm												Load ratings kN		Weight kg
	d	d ₃	d ₄	L ₃	B	C ₁	d ₂	L ₇	h ₁	L ₄	d ₅	C ₂	dyn	stat	
		6H		min				min					C	C ₀	
GIHN-K12LO*	12	M12x1.25	16.5	17	12	11	32	14	38	54	32	11	10.8	24.5	0.10
GIHN-K16LO	16	M14x1.5	21	19	16	14	40	18	44	64	40	14	17.6	36.5	0.20
GIHN-K20LO	20	M16x1.5	25	23	20	17	47	22	52	77	47	17	30.0	48.0	0.40
GIHN-K25LO	25	M20x1.5	30	29	25	22	58	27	65	96	54	19	48.0	78.0	0.66
GIHN-K32LO	32	M27x2.0	38	37	32	28	71	32	80	118.5	66	22	67.0	114	1.20
GIHN-K40LO	40	M33x2.0	47	46	40	33	90	41	97	146	80	26	100	204	2.10
GIHN-K50LO	50	M42x2.0	58	57	50	41	109	50	120	179.5	96	32	156	310	4.40
GIHN-K63LO	63	M48x2.0	70	64	63	53	136	62	140	213	114	38	255	430	7.60
GIHN-K70LO	70	M56x2.0	80	76	70	57	155	70	160	245	135	42	315	540	9.50
GIHN-K80LO	80	M64x3.0	90	86	80	66	168	78	180	270	148	48	400	695	14.5
GIHN-K90LO	90	M72x3.0	100	91	90	72	185	85	195	296	160	52	490	750	17.0
GIHN-K100LO	100	M80x3.0	110	96	100	84	210	98	210	322	178	62	610	1060	28.0
GIHN-K110LO	110	M90x3.0	125	106	110	88	235	105	235	364	190	62	655	1200	32.0
GIHN-K125LO	125	M100x3.0	135	113	125	102	260	120	260	405	200	72	950	1430	43.0

- Rod end housing with right or left-hand female thread.
- It is made up of a radial spherical plain bearing GE..LO and rod end housing.
- With locking slot and nut.
- Rod end housing with a lubricating hole or grease nipple.
- For left-hand thread, please add suffix "L" to bearing number, e.g. GIHN-KL 12 LO.
- Relubrication not possible for the size marked "*".

Rod ends for hydraulic components GIHR-K..DO

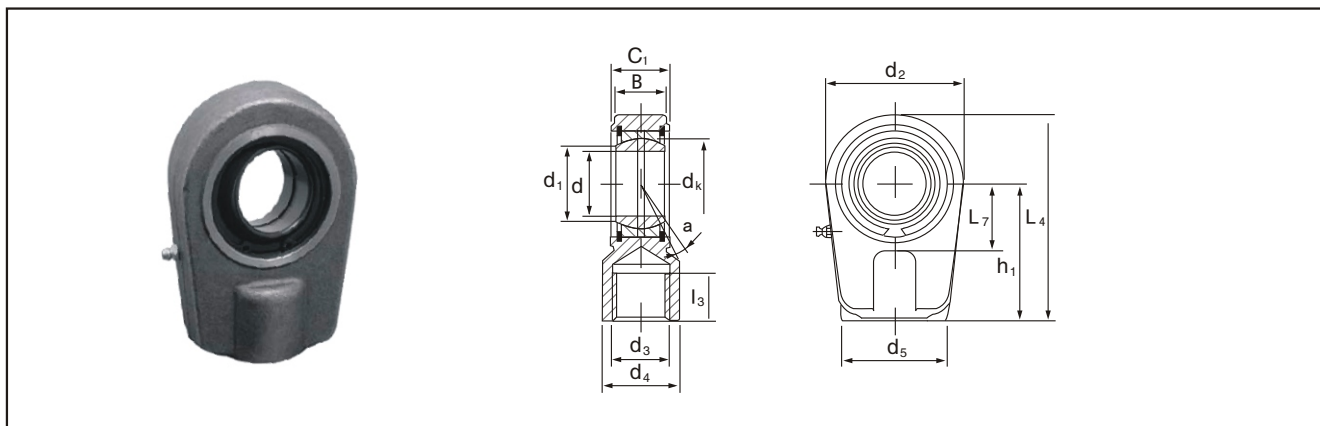


Part No.	Dimensions mm														Load ratings kN		Weight kg
	d	d ₃	d ₄	L ₃	B	C ₁	d ₂	L ₇	h ₁	L ₄	d ₅	d ₁	d _k	a	dyn	stat	
		6H		min				min						≈	C	C ₀	
GIHR-K20DO	20	M16x1.5	25	17	16	19	56	25	50	80	46	24.2	29	9	30.0	72.0	0.43
GIHR-K25DO	25	M16x1.5	25	17	20	23	56	28	50	80	46	29.3	35.5	7	48.0	72.0	0.48
GIHR-K30DO	30	M22x1.5	32	23	22	28	64	30	60	94	50	34.2	40.7	6	62.0	106	0.74
GIHR-K35DO	35	M28x1.5	40	29	25	30	78	38	70	112	66	39.8	47	6	80.0	153	1.20
GIHR-K40DO	40	M35x1.5	49	36	28	35	94	45	85	135	76	45.0	53	7	100	250	2.00
GIHR-K50DO	50	M45x1.5	61	46	35	40	116	55	105	168	90	55.9	66	6	156	365	3.80
GIHR-K60DO	60	M58x1.5	75	59	44	50	130	65	130	200	120	66.8	80	6	245	400	5.40
GIHR-K70DO	70	M65x1.5	86	66	49	55	154	75	150	237	130	77.9	92	6	315	540	8.50
GIHR-K80DO	80	M80x2.0	105	81	55	60	176	80	170	265	160	89.4	105	6	400	670	12.0
GIHR-K90DO	90	M100x2.0	124	101	60	65	206	90	210	323	180	98.1	115	5	490	980	21.5
GIHR-K100DO	100	M110x2.0	138	111	70	70	230	105	235	360	200	109.5	130	7	610	1120	27.5
GIHR-K110DO	110	M120x3.0	152	125	70	80	265	115	265	407.5	220	121.2	140	6	655	1700	40.5
GIHR-K120DO	120	M130x3.0	172	135	85	90	340	140	310	490	257	135.5	160	6	950	2900	76.0

- Rod end housing with right or left–hand female thread.
- It is made up of a radial spherical plain bearing GE..ES or GE..ES 2RS and rod end housing.
- With locking slot and nut.
- Rod end housing with a lubricating hole or grease nipple.
- For left–hand thead ,please add suffix "L" is added to bearing number,e.g.GIHL–K 30 DO.

Rod ends for hydraulic components GIHR..DO

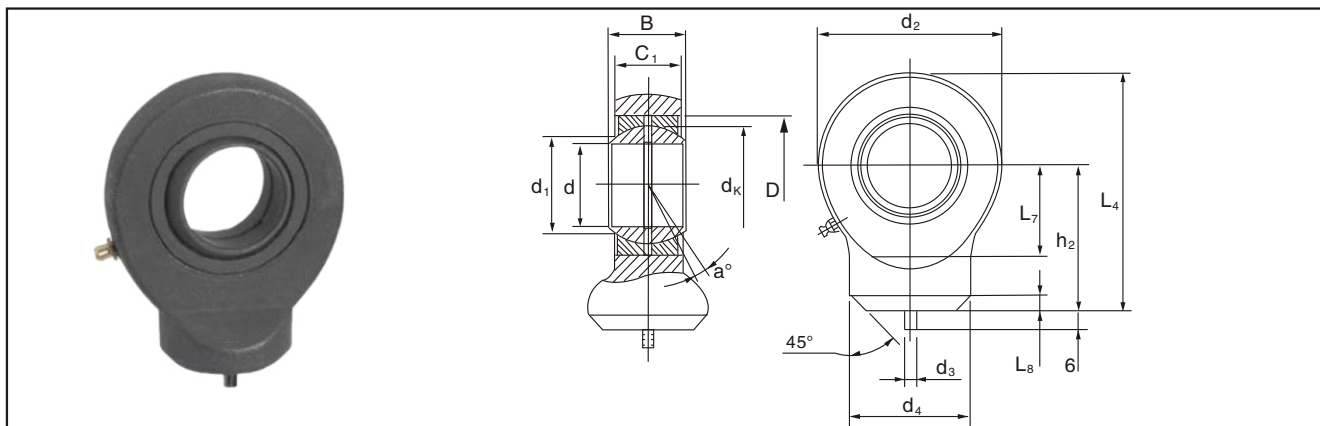
Maintenance required, with female thread



Part No.	Dimensions mm														Load ratings kN		Weight kg
	d	d ₃	d ₄	L ₃	B	C ₁	d ₂	L ₇	h ₁	L ₄	d ₅	d ₁	C ₂	a	dyn	stat	
		6H		min				min						≈	C	C ₀	
GIHR20DO	20	M16x1.5	25	17	16	19	56	25	50	80	46	24.2	29	9	30.0	72.0	0.43
GIHR25DO	25	M16x1.5	25	17	20	23	56	28	50	80	46	29.3	35.5	7	48.0	72.0	0.48
GIHR30DO	30	M22x1.5	32	23	22	28	64	30	60	94	50	34.2	40.7	6	62.0	106	0.74
GIHR35DO	35	M28x1.5	40	29	25	30	78	38	70	112	66	39.8	47	6	80.0	153	1.20
GIHR40DO	40	M35x1.5	49	36	28	35	94	45	85	135	76	45.0	53	7	100	250	2.00
GIHR50DO	50	M45x1.5	61	46	35	40	116	55	105	168	90	55.9	66	6	156	365	3.80
GIHR60DO	60	M58x1.5	75	59	44	50	130	65	130	200	120	66.8	80	6	245	400	5.40
GIHR70DO	70	M65x1.5	86	66	49	55	154	75	150	237	130	77.9	92	6	315	540	8.50
GIHR80DO	80	M80x2.0	105	81	55	60	176	80	170	265	160	89.4	105	6	400	670	12.0
GIHR90DO	90	M100x2.0	124	101	60	65	206	90	210	323	180	98.1	115	5	490	980	21.5
GIHR100DO	100	M110x2.0	138	111	70	70	230	105	235	360	200	109.5	130	7	610	1120	27.5
GIHR110DO	110	M120x3.0	152	125	70	80	265	115	265	407.5	220	121.2	140	6	655	1700	40.5
GIHR120DO	120	M130x3.0	172	135	85	90	340	140	310	490	257	135.5	160	6	950	2900	76.0

- Rod end housing with right or left–hand female thread.
- It is made up of a radial spherical plain bearing GE..ES or GE..ES 2RS and rod end housing.
- Rod end housing with a lubricating hole or grease nipple.
- For left–hand thread ,please add suffix "L" to bearing number,e.g.GIHL 40 DO.

Rod ends for hydraulic components GK..DO



Part No	Dimensions mm															Load ratings kN		Weight kg
	d	d ₃	d ₄	B	C ₁	d ₂	L ₇	L ₈	h ₂	L ₄	d _k	d _i	D	a	dyn	stat		
							min							≈	C	C ₀		
GK10DO*	10	3	38.5	9	7	29	15	1.5	24	38.5	16	13.2	19	12	8.15	15.6	0.041	
GK12DO	12	3	44	10	8	34	18	1.5	27	44	18	15.0	22	11	10.8	21.6	0.066	
GK15DO	15	4	51	12	10	40	20	2.0	31	51	22	18.4	26	8	17.0	32.0	0.12	
GK17DO	17	4	58	14	11	46	23	2.0	35	58	25	20.7	30	10	21.2	40.0	0.19	
GK20DO	20	4	64.5	16	13	53	27.5	2.0	38	64.5	29	24.2	35	9	30.0	54.0	0.23	
GK25DO	25	4	77	20	17	64	33	3.0	45	77	35.5	29.3	42	7	48.0	72.0	0.43	
GK30DO	30	4	87.5	22	19	73	37.5	3.0	51	87.5	40.7	34.2	47	6	62.0	95.0	0.64	
GK35DO	35	4	102	25	21	82	43	3.0	61	102	47	39.8	55	6	80.0	125	0.96	
GK40DO	40	4	115	28	23	92	48	4.0	69	115	53	45.0	62	7	100	156	1.30	
GK45DO	45	6	128	32	27	102	52	4.0	77	128	60	50.8	68	7	127	208	1.80	
GK50DO	50	6	144	35	30	112	59	4.0	88	144	66	55.9	75	6	156	250	2.50	
GK60DO	60	6	167.5	44	38	135	72.5	4.0	100	167.5	80	66.8	90	6	245	390	3.90	
GK70DO	70	6	195	49	42	160	86	5.0	115	195	92	77.9	105	6	315	510	6.60	
GK80DO	80	6	231	55	47	180	98	5.0	141	231	105	89.4	120	6	400	620	8.70	

- Rod end housing with right or left-hand female thread.
- It is made up of a radial spherical plain bearing GE..ES or GE..ES 2RS and rod end housing.
- Rod end housing with a lubricating hole or grease nipple.
- Sealed design also available, e.g. GK 50 DO 2RS.
- Relubrication not possible for the size marked "*".



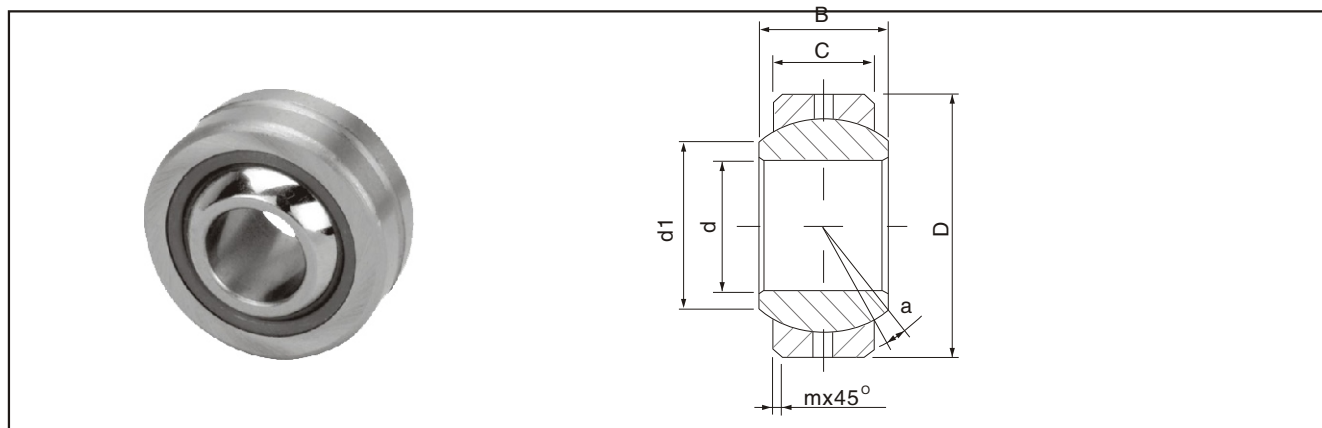
Main Application:

Industrial equipment
Transportation equipment
Construction equipment
Agricultural equipment

Spherical Plain Bearing



COM series



Part No.	Dimensions mm								Load ratings kN	Weight kg
	d	d _i	B	C	D	d _k	m	a	dyn	
								≈	C	
COM3	4.826	7.44	7.14	5.54	14.29	10.31	0.381	11	14.464	0.006
COM4	6.350	9.25	8.71	6.35	16.67	12.70	0.560	13.5	22.015	0.010
COM5	7.938	10.64	9.53	7.14	19.05	14.47	0.810	12	28.800	0.014
COM6	9.525	13.11	10.31	7.92	20.64	16.66	0.810	10	37.361	0.017
COM7	11.113	13.46	11.10	8.71	23.02	17.45	0.810	8.0	42.048	0.021
COM8	12.700	16.26	12.70	9.91	25.40	20.65	0.810	9.5	58.934	0.029
COM9	14.288	18.03	14.27	11.10	27.78	23.01	0.810	9.5	73.967	0.039
COM10	15.875	19.81	15.88	12.70	30.16	25.40	0.810	8.5	94.658	0.050
COM12	19.050	23.37	19.05	15.06	36.51	30.15	1.120	9.0	141.982	0.093
COM14	22.225	24.89	22.23	17.86	39.69	33.32	1.120	9.5	186.639	0.119
COM16	25.400	28.40	25.40	20.24	44.45	38.10	1.120	10	245.534	0.175

–Material:

–Ball

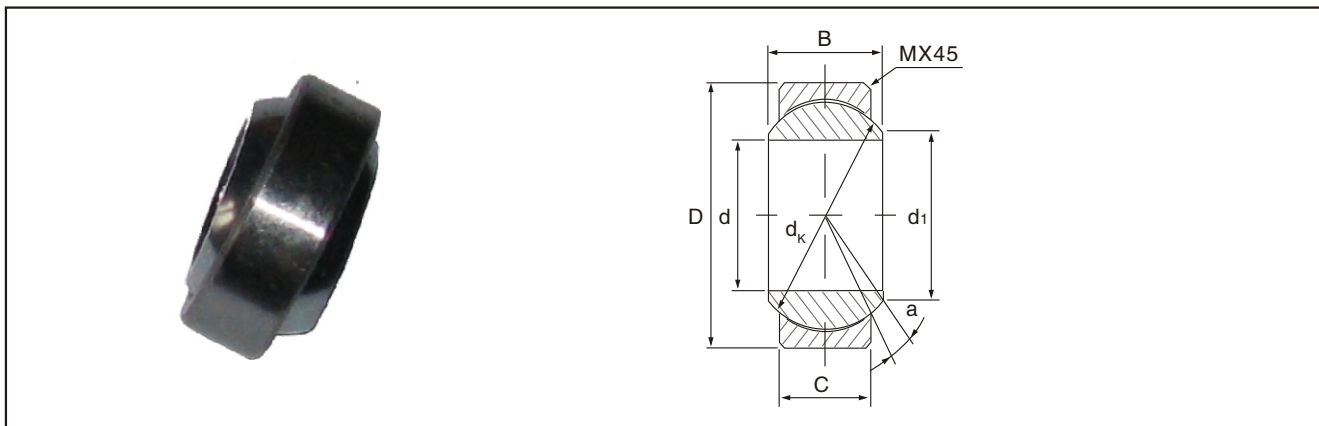
52100 Bearing Steel
Heat Treated
Hard Chrome Plated
Precision Ground

–Race

Chrome Moly Steel (Optional – Stainless Steel)
Heat Treated

- Outer ring pressed around inner ring.
- With lubricating groove and holes in the outer ring.
- In inch dimension series.

COM..T/HCOM..T series

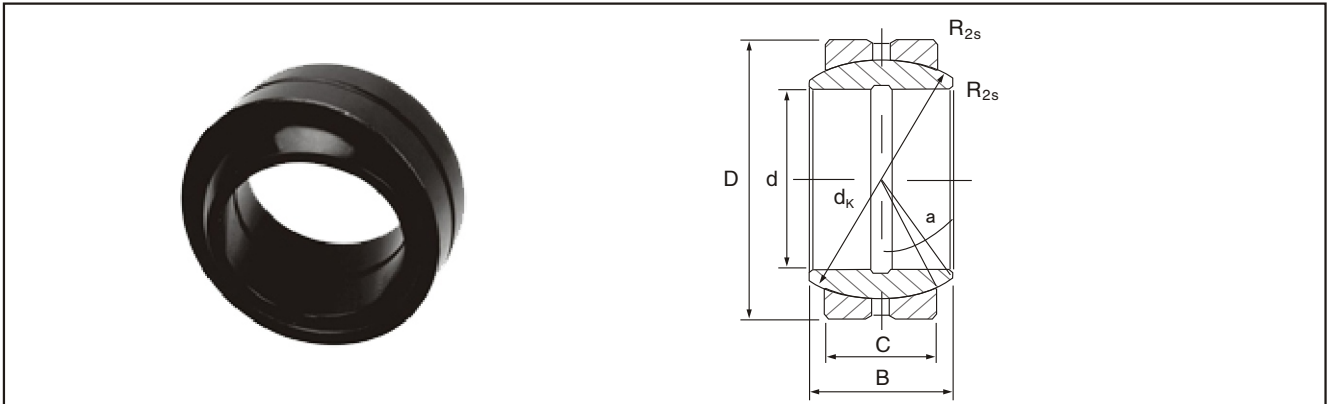


Part No.	Dimensions mm								Load ratings kN	Weight kg
	d	d ₁	B	C	D	d _k	m	a	dyn	
								≈	C	
COM3T	4.826	7.44	7.14	5.54	14.29	10.31	0.381	11	21.68	0.006
COM4T	6.350	9.25	8.71	6.35	16.67	12.70	0.560	13.5	33.02	0.010
COM5T	7.938	10.64	9.53	7.14	19.05	12.47	0.810	12	43.20	0.014
COM6T	9.525	13.11	10.31	7.92	20.64	16.66	0.810	10	56.04	0.017
COM7T	11.113	13.46	11.10	8.71	23.02	17.45	0.810	8.0	63.07	0.021
COM8T	12.700	16.26	12.70	9.91	25.40	20.65	0.810	9.5	88.39	0.029
COM9T	14.288	18.03	14.27	11.10	27.78	23.01	0.810	9.5	110.94	0.039
COM10T	15.875	19.81	15.88	12.70	30.16	25.40	0.810	8.5	141.96	0.050
COM12T	19.050	23.37	19.05	15.06	36.51	30.15	1.120	9.0	212.94	0.093
COM14T	22.225	24.89	22.23	17.86	39.69	33.32	1.120	9.5	279.93	0.119
COM16T	25.400	28.40	25.40	20.24	44.45	38.10	1.120	10	368.25	0.175
HCOM16T	25.400	34.54	25.40	19.84	50.80	42.85	0.810	9.0	472.46	0.251
HCOM19T	30.163	40.89	30.15	23.80	60.33	50.80	0.810	8.5	672.00	0.406
HCOM20T	31.750	40.89	30.15	23.80	60.33	50.80	0.810	8.5	672.00	0.406
HCOM24T	38.100	47.24	34.93	27.79	69.85	68.72	0.810	8.5	906.96	0.616
HCOM28T	44.450	53.59	39.67	31.75	79.38	66.68	1.120	8.0	1176.61	0.884
HCOM32T	50.800	59.94	44.45	34.93	88.90	74.60	1.120	8.5	1448.06	1.198

- Outer ring pressed around inner ring.
- Outer race lined with PTFE fabric composite material.
- In inch dimension series.

Spherical Plain Bearing

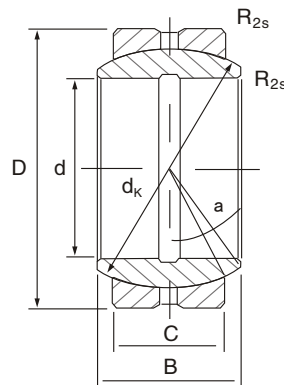
GE..E(S),GE..ES 2RS



Part No	Dimensions mm								Load ratings kN		Weight kg
	d	D	B	C	d _k	R _{1s}	R _{2s}	a	dyn	stat	
						min	min	≈	C	C ₀	
GE6E	6	14	6	4	10	0.3	0.3	13	3.4	17	0.004
GE8E	8	16	8	5	13	0.3	0.3	15	5.5	27.5	0.007
GE10E	10	19	9	6	16	0.3	0.3	12	8.15	40.5	0.011
GE12E	12	22	10	7	18	0.3	0.3	11	10.8	54	0.016
GE15ES GE15ES2RS	15	26	12	9	22	0.3	0.3	8	17	85	0.025
GE16ES GE16ES2RS	16	30	14	10	25	0.3	0.3	10	21.2	106	0.041
GE17ES GE17ES2RS	17	30	14	10	25	0.3	0.3	10	21.2	106	0.041
GE20ES GE20ES2RS	20	35	16	12	29	0.6	0.3	9	30	146	0.061
GE25ES GE25ES2RS	25	42	20	16	35.5	0.6	0.6	7	48	240	0.11
GE30ES GE30ES2RS	30	47	22	18	40.7	0.6	0.6	6	62	310	0.14
GE35ES GE35ES2RS	35	55	25	20	47	0.6	1.0	6	80	400	0.22
GE40ES GE40ES2RS	40	62	28	22	53	0.6	1.0	7	100	500	0.30
GE45ES GE45ES2RS	45	68	32	25	60	0.6	1.0	7	127	640	0.40
GE50ES GE50ES2RS	50	75	35	28	66	0.6	1.0	6	156	780	0.54
GE60ES GE60ES2RS	60	90	44	36	80	1.0	1.0	6	245	1220	1.00
GE70ES GE70ES2RS	70	105	49	40	92	1.0	1.0	6	315	1560	1.50
GE80ES GE80ES2RS	80	120	55	45	105	1.0	1.0	6	400	2000	2.20
GE90ES GE90ES2RS	90	130	60	50	115	1.0	1.0	5	490	2450	2.70
GE100ES GE100ES2RS	100	150	70	55	130	1.0	1.0	7	610	3050	4.30
GE110ES GE110ES2RS	110	160	70	55	140	1.0	1.0	6	655	3250	4.70
GE120ES GE120ES2RS	120	180	85	70	160	1.0	1.0	6	950	4750	8.00
GE140ES GE140ES2RS	140	210	90	70	180	1.0	1.0	7	1080	5400	11.00
GE160ES GE160ES2RS	160	230	105	80	200	1.0	1.0	8	1360	6800	14.00

- Outer ring with single split in axial direction.
- Lubricating grooves and holes in the outer and inner rings of type ES.
- Outer ring of type–2RS with lip seals in both sides.
- Both outer and inner rings are properly phosphate treated.

GEZ..ES,GEZ..ES 2RS

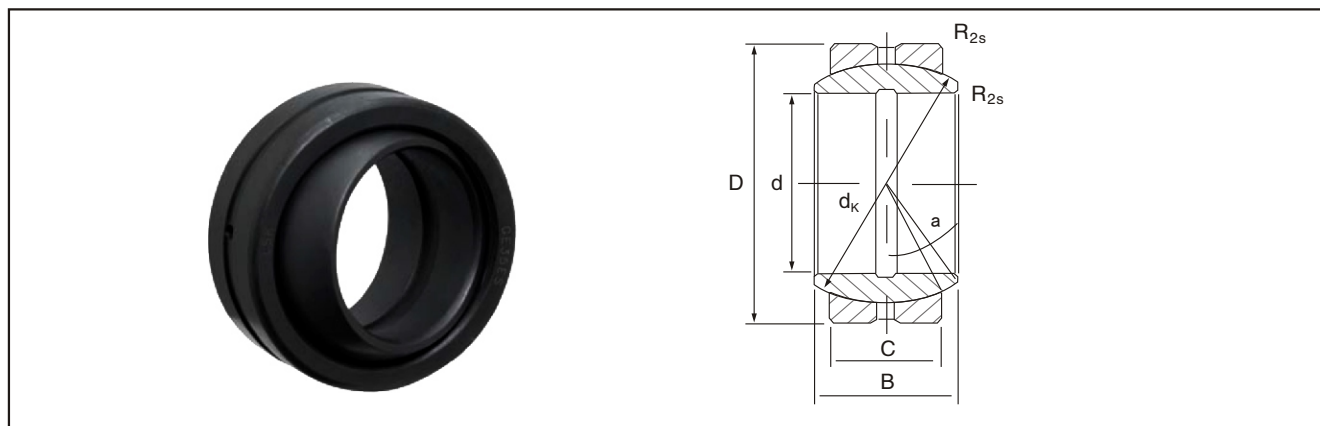


Part No	Dimensions mm								Load ratings kN		Weight kg
	d	D	B	C	d _k	R _{1s}	R _{2s}	a	dyn	stat	
						min	min	≈	C	C ₀	
GEZ12ES	12.70	22.225	11.10	9.525	19	0.3	0.6	6	13	41	0.022
GEZ15ES	15.875	26.988	13.894	11.913	22	0.3	0.6	6	22	65	0.036
GEZ19ES	19.05	31.750	16.662	14.275	27.5	0.3	0.6	6	31	95	0.053
GEZ22ES	22.225	36.513	19.431	16.662	32	0.3	0.6	6	42	127	0.085
GEZ25ES GEZ25ES2RS	25.40	41.275	22.235	19.05	35.5	0.3	0.6	6	56	166	0.121
GEZ31ES GEZ31ES2RS	31.75	50.80	27.762	23.80	45.5	0.6	0.6	6	86	260	0.232
GEZ34ES GEZ34ES2RS	34.925	55.663	30.150	26.187	49	0.6	1.0	6	102	310	0.351
GEZ38ES GEZ38ES2RS	38.10	61.913	33.325	28.575	53	0.6	1.0	6	125	375	0.422
GEZ44ES GEZ44ES2RS	44.45	71.438	38.887	33.325	63.9	0.6	1.0	6	170	510	0.641
GEZ50ES GEZ50ES2RS	50.80	80.963	44.450	38.10	73	0.6	1.0	6	224	670	0.932
GEZ57ES GEZ57ES2RS	57.15	90.488	55.013	42.85	82	0.6	1.0	6	280	850	1.33
GEZ63ES GEZ63ES2RS	63.50	100.013	55.550	47.625	92	0.6	1.0	6	355	1060	1.85
GEZ69ES GEZ69ES2RS	69.85	111.125	61.112	52.375	100	1.0	1.0	6	415	1250	2.42
GEZ76ES GEZ76ES2RS	76.20	120.650	66.675	57.15	109.5	1.0	1.0	6	500	1500	3.10
GEZ82ES GEZ76ES2RS	82.55	130.175	72.238	61.90	120	1.0	1.0	6	585	1760	3.82
GEZ88ES GEZ88ES2RS	88.90	139.70	77.775	66.675	130	1.0	1.0	6	680	2040	4.79
GEZ95ES GEZ95ES2RS	95.250	149.225	83.337	71.425	137	1.0	1.0	6	780	2360	5.80
GEZ101ES GEZ101ES2RS	101.60	158.750	88.900	76.200	146	1.0	1.0	6	900	2650	7.00
GEZ114ES GEZ114ES2RS	114.30	177.800	100.013	85.725	164.5	1.0	1.0	6	1120	3400	9.80
GEZ120ES GEZ120ES2RS	120.65	187.325	105.562	90.475	173.5	1.0	1.0	6	1250	3750	11.5

- Design features same as GE..ES or GE..ES 2RS.
- In inch dimension series.

Spherical Plain Bearing

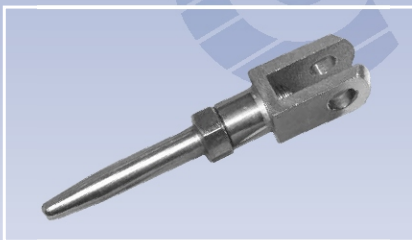
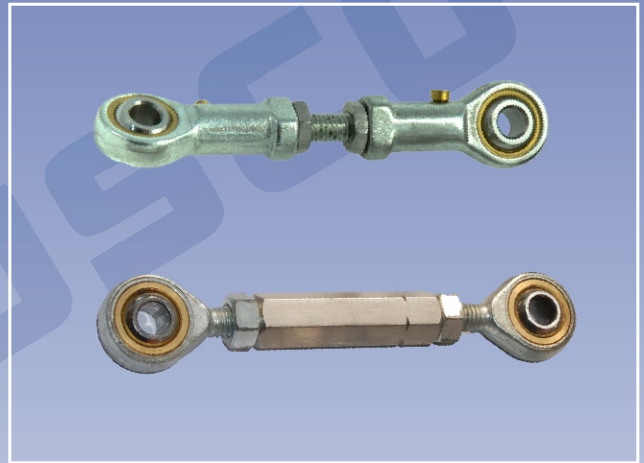
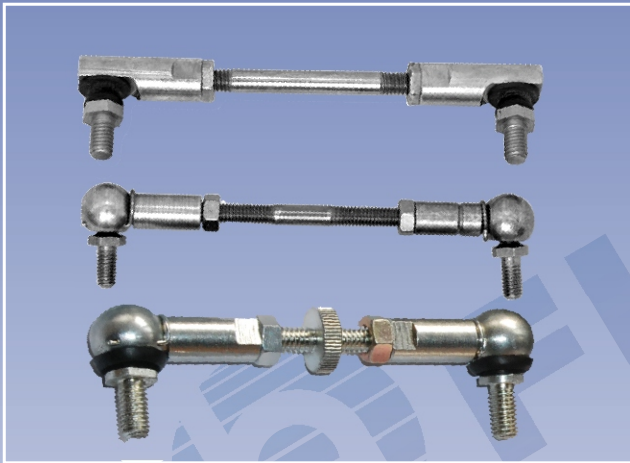
GEG..E(S),GEG..ES 2RS



Part No	Dimensions mm								Load ratings kN		Weight kg
	d	D	B	C	d _k	R _{1s}	R _{2s}	a	dyn	stat	
						min	min	≈	c	C ₀	
GEG6E	6	16	9	5	13	0.3	0.3	21	5.50	27.5	0.008
GEG8E	8	19	11	6	16	0.3	0.3	21	8.15	40.5	0.014
GEG10E	10	22	12	7	18	0.3	0.3	18	10.8	54.0	0.020
GEG12E	12	26	15	9	22	0.3	0.3	18	17.0	85.0	0.034
GEG15ES GEG15ES2RS	15	30	16	10	25	0.3	0.3	16	21.2	106	0.046
GEG17ES GEG17ES2RS	17	35	20	12	29	0.3	0.3	19	30.0	146	0.078
GEG20ES GEG20ES2RS	20	42	25	16	35.5	0.6	0.6	17	48.0	240	0.150
GEG25ES GEG20ES2RS	25	47	28	18	40.7	0.6	1.0	17	62.0	310	0.190
GEG30ES GEG30ES2RS	30	55	32	20	47	0.6	1.0	17	80.0	400	0.290
GEG35ES GEG35ES2RS	35	62	35	22	53	0.6	1.0	16	100	500	0.390
GEG40ES GEG40ES2RS	40	68	40	25	60	0.6	1.0	17	127	640	0.520
GEG45ES GEG45ES2RS	45	75	43	28	66	0.6	1.0	15	156	780	0.680
GEG50ES GEG50ES2RS	50	90	56	36	80	0.6	1.0	17	245	1220	1.40
GEG60ES GEG60ES2RS	60	105	63	40	92	1.0	1.0	17	315	1560	2.00
GEG70ES GEG70ES2RS	70	120	70	45	105	1.0	1.0	16	400	2000	2.90
GEG80ES GEG80ES2RS	80	130	75	50	115	1.0	1.0	14	490	2450	3.50
GEG90ES GEG90ES2RS	90	150	85	55	130	1.0	1.0	15	610	3050	5.40
GEG100ES GEG100ES2RS	100	160	85	55	40	1.0	1.0	14	655	3250	5.90
GEG110ES GEG110ES2RS	110	180	100	70	160	1.0	1.0	11	950	4750	11.0
GEG120ES GEG120ES2RS	120	210	115	70	180	1.0	1.0	16	1080	5400	15.0

- Outer ring with single split in axial direction.
- Lubricating grooves and holes in the outer and inner rings of type ES.
- Outer ring of type–2RS with lip seals in both sides.
- Both outer and inner rings are properly phosphate treated.

Linkage Assembly



Suspension and Steering Parts

Tie rod end



Stabilizer link



Control arm



Mechanical Hardware Parts

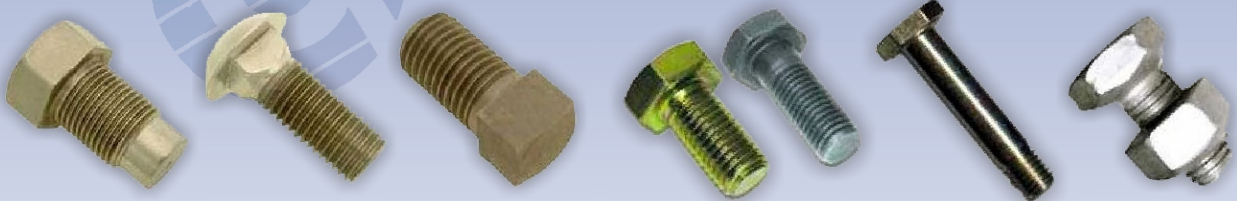
Cable fittings



Stainless clips and washer



High strength Bolt



Hydraulic Fittings



Bearing Interchange Table

中国 CHINA	瑞典 SWEDEN	德国 GERMANY	德国 GERMANY	德国 GERMANY	中国 CHINA	日本 JAPAN	日本 JAPAN	意大利 ITALY	日本 JAPAN
FUSCO	SKF	FAG	ELGES	ASK	LS	IKO	THK	LSK	MTR
SI..E	SI..E	SI..E	GIR..DO	EJ..	SI..E			GIR..E	
SI..ES	SIA..ES	SI..ES	GIR..DO	EJ..	SI..ES			GIR..ES	
SI..ES 2RS	SIA..ES 2RS	SI..ES 2RS	GIR..DO 2RS	EJ..2RS	SI..ES 2RS			GIR..ES 2RS	
SA..E	SA..E	SA..E	GAR..DO	EA..	SA..			GAR..E	
SA..ES	SAA..ES	SA..ES	GAR..DO	EA..	SA..ES			GAR..ES	
SA..ES 2RS	SAA..ES 2RS	SA..ES 2RS	GAR..DO 2RS	EA..2RS	SA..ES 2RS			GAR..ES 2RS	
SIL..E	SIL..E	SIL..E	GIL..DO	EJL..	SIL..E			GIL..E	
SIL..ES	SIAL..ES	SIL..ES	GIL..DO	EJL..	SIL..ES			GIL..ES	
SIL..ES 2RS	SIAL..ES 2RS	SIL..ES 2RS	GIL..DO 2RS	EJL..2RS	SIL..ES 2RS			GIL..ES 2RS	
SAL..E	SAL..E	SAL..E	GAL..DO	EAL..	SAL..E			GAL..E	
SAL..ES	SALA..ES	SAL..ES	GAL..DO	EAL..	SAL..ES			GAL..ES	
SAL..ES 2RS	SALA..ES 2RS	SAL..ES 2RS	GAL..DO 2RS	EAL..2RS	SAL..ES 2RS			GAL..ES 2RS	
SI..T/K	SIKB..F		GIKFR..FW	KI..-D	SIJK..C	PHS..EC		TSF..C	DF..
SA..T/K	SAKB..F		GAKFR..FW	KA..-D	SAJK..C	POS..EC			DM..
SIL..T/K	SILKB..F		GIKFL..PW	KIL..-D	SILJK..C	PHSL..EC		TSFL..C	DF..L
SAL..T/K	SALKB..F		GAKFL..PW	KAL..-D	SALJK..C	POSL..EC		TSML..C	DM..L
SI..PK				KI..-BD			NHS..T		
SA..PK				KA..-BD			NOS..T		
SIL..PK				KIL..-BD			NHS..TL		
SAL..PK				KAL..-BD			NOS..TL		
PHS..	SLKAC..M		GLKF..PB	KI..-NIRO	SIBP..S	PHS..	PHS..	TSF..	BNF..
POS..	SAKAC..M		GAKF..PB	KA..-NIRO	SABP..S	POS..	POS..	TSM..	BNM..
PHSL..	SILKAC..M		GIKL..PB	KIL..-NIRO	SILBP..S	PHSL..	PHS..	TSFL..	BNF..L
POSL..	SALKAC..M		GAKL..PB	KAL..-NIRO	SALBP..S	POSL..	POS..	TSML..	BNM..L
GIR..UK	SI..C	SI..C	GIR..UK	EJ..D	SI..C			GIR..UK	
GIR..UK2RS	SIA..TE 2RS	SI..TE 2RS	GIR..UK 2RS	EJ..D 2RS	SI..ET 2RS			GIR..UK 2RS	
GAR..UK	SA..C	S..C	GAR..UK	EA..D	SA..C			GAR..UK	
GAR..UK2RS	SAA..TE 2RS	SA..TE 2RS	GAR..UK 2RS	EA..D 2RS	SA..ET 2RS			GAR..UK	
GIL..UK	SIL..C	SIL..C	GIL..UK	EJL..D	SIL..C			GIL..UK	
GIL..UK 2RS	SILA..TE 2RS	SIL..TE 2RS	GIL..UK 2RS	EJL..D 2RS	SIL..ET 2RS			GIL..UK 2RS	
GAL..UK	SAL..C	SAL..C	GAL..UK	EAL..D	SAL..C			GAL..UK	
GAL..UK 2RS	SALA..TE 2RS	SAL..TE 2RS	GAL..UK 2RS	EAL..D 2RS	SAL..ET 2RS			GAL..UK 2RS	
SQ..RS					SQ..RS	LHSA..	RBL..		
SQ..RS-1							RBL..B		
SQL..RS					SQL..RS		RBL..L		
SQD..					SQD..		ABS..		

Bearing Interchange Table

中国 CHINA	瑞典 SWEDEN	德国 GERMANY	德国 GERMANY	德国 GERMANY	中国 CHINA	日本 JAPAN	日本 JAPAN	意大利 ITALY	日本 JAPAN
FUSCO	SKF	FAG	ELGES	ASK	LS	IKO	THK	LSK	MTR
SQD..-1							ABS..B		
SQZ..RS					SQZ..RS		RBI..		
SQZ..RS-1							RBI..B		
SQZL..RS					SQZL..RS		RBI..L		
GIHR..DO	SIRD..ES		GIHR..DO					TAPR.N	
GIHR-K..DO	SIR..ES		GIHR-K..DO		SIR..ES			TAPR.U	
GIHL..DO	SILD..ES		GIHL..DO						
GIHL-K..DO	SILR..ES		GIHL-K..DO		SILR..ES				
GIHN-K..LO	SIQG..ES		GIHN-K..LO		SIGEW..ES			TAPR.CE	
GK..DO	SC..ES		GK..DO		SK..ES			T.A.C	
GF..DO	SCF..ES		GF..DO		SF..ES			TPN	
中国 CHINA	瑞典 SWEDEN	德国 GERMANY	德国 GERMANY	德国 GERMANY	中国 CHINA	日本 JAPAN	日本 JAPAN	日本 JAPAN	
FUSCO	SKF	FAG	ELGES	ASK	LS	IKO	NTN	MTR	
GE..UK	GE..C	GE..C	GE..UK	GE..-D	GE..C	GE..EC	SAR1..		
GE..FW	GEH..C	GEH..C	GE..FW		GEG..C				
GEBK..S					GEBK..S	PB..			
BEBJ..S			GE..PB		BEBJ..S				
G..PB			GE..PB	G..					
G..PW			GE..PW	G..D					



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