

PLAIN BEARINGS





GCB deep groove ball bearings are guaranteed for 12 months after delivery to be free from material defect and manufacturing or assembly error. Any perceived faults should be documented and reported to GCB.

The information in this manual is distilled from best practices, national standards and our own extensive experience.

QCB assumes no liability for damage arising from ding efficient and economical solutions for customers.

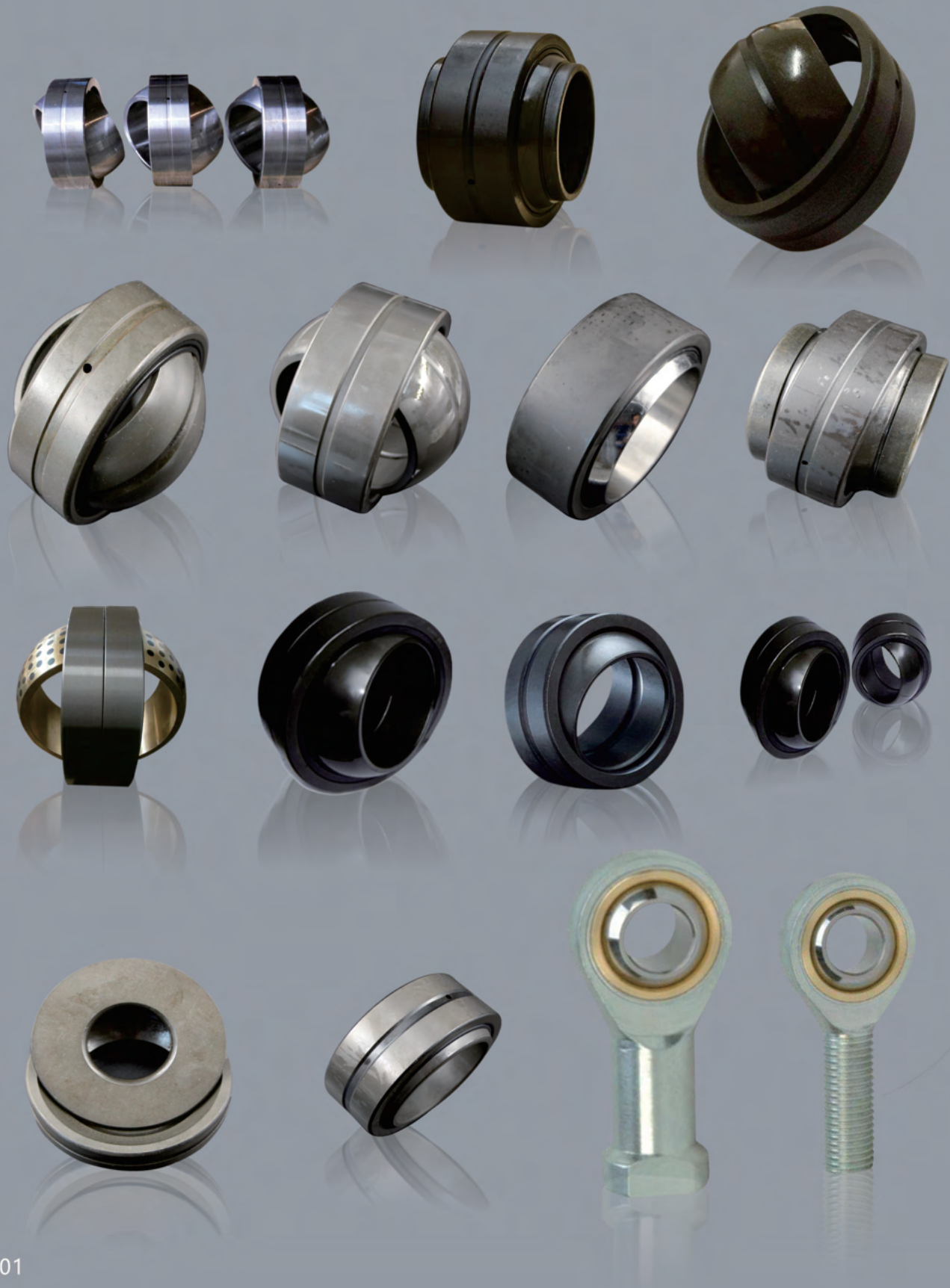
- Improper selection of product by the customer
- Failure to follow the instructions and information in this manual
- Improper use of the product
- The use of untrained personnel
- Any modification to the product as delivered

In the interest of continuous product improvement, QCB reserves the right to modify any product or specification. All weights and measures are approximate and for guidance only.

Detailed & up to date information is available from the QCB Technical Department or www.QCBbearings.com

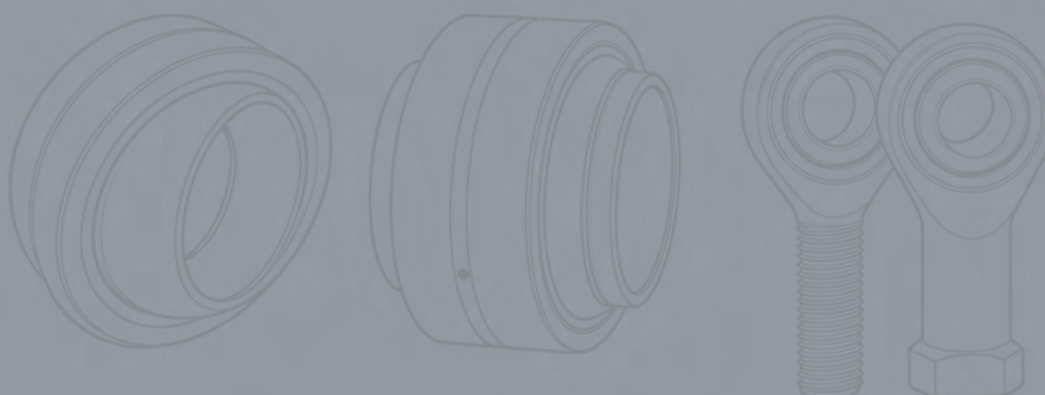
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THE TYPE OF PRODUCT



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Capability And Choice Of Radial Spherical Plain Bearings

The symbols of dimension and tolerance

d	Bearing bore diameter,nominal.
Δd_{mp}	Single plane mean bore diameter deviation.
Vdp	Bore diameter variation in a single radial plane.
VDmp	Mean bore diameter variation.
ΔB_s	Deviation of a single width of the inner ring.
B	Width of inner ring ,nominal.
D	Bearing outside diameter,nominal.
ΔD_{mp}	Single plane mean outside diameter deviation.
VDp	Outside diameter variation in a single radial plane.
VDmp	Mean outside diameter variation.
ΔC_s	Deviation of a single width of the outer ring.
C	Width of outer ring ,nominal.
ΔT_s	Actual width deviation of the angular contact spherical plain bearing.
ΔH_s	Actual height deviation of the thrust spherical plain bearing.
$\Delta h_s, \Delta h_{is}$	Center height deviation of rod ends or ball joint rod ends.

Tolerances For Radial Spherical Plain Bearings

Tolerances For Radial Spherical Plain Bearings(Except for Series GEBK...S,GEBJ...S,GEBJ...C,GEFZ...S,GEFZ...C,GEK...XS-2RS)

Inner ring

d mm		Δd_{mp}		Δd_{mp}^*		Vdp	VDmp	Vdp*	VDmp*	ΔB_s		ΔB_s^*	
over	incl	max	min	max	min	max	max	max	max	max	min	max	min
-	18	0	-8	+18	0	8	6	18	14	0	-120	0	-180
18	30	0	-10	+21	0	10	8	21	16	0	-120	0	-210
30	50	0	-12	+25	0	12	9	25	19	0	-120	0	-250
50	80	0	-15	+30	0	15	11	30	22	0	-150	0	-300
80	120	0	-20	+35	0	20	15	35	26	0	-200	0	-350
120	180	0	-25	+40	0	25	19	40	30	0	-250	0	-400
180	250	0	-30	+46	0	30	23	46	35	0	-300	0	-460
250	315	0	-35	+52	0	35	26	52	39	0	-350	0	-520
315	400	0	-40	+57	0	40	30	57	43	0	-400	0	-570
400	500	0	-45	-	-	45	34	-	-	0	-450	-	-
500	630	0	-50	-	-	50	38	-	-	0	-500	-	-

The deviations in the columns with symbol "*" apply to spherical plain bearings of series GEEW...ES.

Outer ring

D mm		ΔD_{mp}		VDp	VDmp	ΔC_s	
over	incl	max	min	max	max	max	min
-	18	0	-8	10	6	0	-240
18	30	0	-9	12	7	0	-240
30	50	0	-11	15	8	0	-240
50	80	0	-13	17	10	0	-300
80	120	0	-15	20	11	0	-400
120	150	0	-18	24	14	0	-500
150	180	0	-25	33	19	0	-500
180	250	0	-30	40	23	0	-600
250	315	0	-35	47	26	0	-700
315	400	0	-40	53	30	0	-800
400	500	0	-45	60	34	0	-900
500	630	0	-50	67	38	0	-1000
630	800	0	-75	100	56	0	-1100
800	1000	0	-100	135	75	0	-1200

Capability And Choice Of Radial Spherical Plain Bearings

Tolerances for series GEBK...S

Inner ring						Outer ring				μm	
d mm		Δdmp		ΔBs		D mm		ΔDmp		ΔCs	
over	incl	max	min	max	min	over	incl	max	min	max	min
-	6	+12	0	0	-100	10	18	0	-11	+100	-100
6	10	+15	0	0	-100	18	30	0	-13	+100	-100
10	18	+18	0	0	-100	30	50	0	-16	+100	-100
18	30	+21	0	0	-100	50	80	0	-19	+100	-100

Tolerances for series GEBJ...S, GEBJ...C

Inner ring						Outer ring				μm	
d mm		Δdmp		ΔBs		D mm		ΔDmp		ΔCs	
over	incl	max	min	max	min	over	incl	max	min	max	min
-	6	+12	0	0	-100	10	18	0	-11	0	-240
6	10	+15	0	0	-100	18	30	0	-13	0	-240
10	18	+18	0	0	-100	30	50	0	-16	0	-240
18	30	+21	0	0	-100	50	80	0	-19	0	-300

Tolerances for series GEFZ...S, GEFZ...C

Inner ring						Outer ring				μm	
d mm		Δdmp		ΔBs		D mm		ΔDmp		ΔCs	
over	incl	max	min	max	min	over	incl	max	min	max	min
-	6	+38	-13	+130	-130	10	18	0	-18	+130	-130
6	10	+38	-13	+130	-130	18	30	0	-18	+130	-130
10	18	+38	-13	+130	-130	30	50	0	-18	+130	-130
18	30	+38	-13	+130	-130						

Tolerances for series GEK...XS-2RS

Inner ring						Outer ring				μm	
d mm		Δdmp		ΔBs		D mm		ΔDmp		ΔCs	
over	incl	max	min	max	min	over	incl	max	min	max	min
18	30	+33	0	+50	-110	50	80	+30	+11	0	-130
30	50	+39	0	+50	-110	80	120	+35	+13	0	-130
50	60	+46	0	+50	-140	120	150	+40	+15	0	-130

Capability And Choice Of Thrust Spherical Plain Bearings

Tolerances for thrust spherical Plain Bearings
 Shaft washer and height of bearing

μm

d mm		Δdmp		Vdp	Vdmp	ΔBs		ΔHs	
over	incl	max	min	max	max	max	min	max	min
-	18	0	-8	8	6	0	-240	+250	-400
18	30	0	-10	10	8	0	-240	+250	-400
30	50	0	-12	12	9	0	-240	+250	-400
50	80	0	-15	15	11	0	-300	+250	-500
80	120	0	-20	20	15	0	-400	+250	-600
120	180	0	-25	25	19	0	-500	+350	-700
180	200	0	-30	30	23	0	-600	+350	-800

Housing washer

μm

D mm		ΔDmp		VDp	VDmp	ΔCs	
over	incl	max	min	max	max	max	min
-	30	0	-9	12	7	0	-240
30	50	0	-11	15	8	0	-240
50	80	0	-13	17	10	0	-300
80	120	0	-15	20	11	0	-400
120	150	0	-18	24	14	0	-500
150	180	0	-25	33	19	0	-500
180	250	0	-30	40	23	0	-600
250	315	0	-35	47	26	0	-700
315	400	0	-40	53	30	0	-800

Fits of thrust spherical plain bearings

Operating Conditions	Sliding Contact Surface Combination	
	Requiring Maintenance	Maintenance-Free
Loads Of All Kinds, Interference Fit	m6	m6

Capability And Choice Of Thrust Spherical Plain Bearings

Operating Conditions	Sliding Contact Surface Combination	
	Requiring Maintenance	Maintenance-Free
Purely axial loads	H11	H11
Combined loads	J7	J7

Shaft diameter tolerances

μm

Shaft Diameter mm		Shaft Diameter Tolerances	
		M6	
over	incl	high	low
6	10	+15	+6
10	18	+18	+7
18	30	+21	+8
30	50	+25	+9
50	80	+30	+11
80	120	+35	+13
120	180	+40	+15
180	250	+46	+17

Housing bore tolerances

μm

Housing Bore Diameter mm		Housing Bore Tolerances			
		H11		J7	
over	incl	low	high	low	high
18	30	0	+130	-9	+12
30	50	0	+160	-11	+14
50	80	0	+190	-12	+18
80	120	0	+220	-13	+22
120	150	0	+250	-14	+26
150	180	0	+250	-14	+26
180	250	0	+290	-16	+30
250	315	0	+320	-16	+36

Capability And Choice Of Angular Contact Plain Bearings

Tolerances For Angular Contact Spherical Plain Bearings

Inner ring and width of bearing

d mm		Δd_{mp}		V _{dp}	V _{dmp}	ΔB_s		μm	
								ΔT_s	
over	incl	max	min	max	max	max	min	max	min
-	50	0	-12	12	9	0	-240	+250	-400
50	80	0	-15	15	11	0	-300	+250	-500
80	120	0	-20	20	15	0	-400	+250	-600
120	180	0	-25	25	19	0	-500	+350	-700
180	200	0	-30	30	23	0	-600	+350	-800

Outer ring

D mm		ΔD_{mp}		V _{Dp}	V _{Dmp}	μm	
						ΔC_s	
over	incl	max	min	max	max	max	min
-	50	0	-14	14	11	0	-240
50	80	0	-16	16	12	0	-300
80	120	0	-18	18	14	0	-400
120	150	0	-20	20	15	0	-500
150	180	0	-25	25	19	0	-500
180	250	0	-30	30	23	0	-600
250	315	0	-35	35	26	0	-700

Fits of angular contact plain bearings

Operating Conditions	Sliding Contact Surface Combination	
	Requiring Maintenance	Maintenance-Free
Loads Of All Kinds, Interference Fit	m6	m6

Capability And Choice Of Angular Contact Plain Bearings

Housing fits

Operating Conditions	Sliding Contact Surface Combination	
	Requiring Maintenance	Maintenance-Free
Loads Of All Kinds, Interference Fit	M7	M7
Loads Of All Kinds, Can Generally Be Displaced Axially	J7	J7

Shaft diameter tolerances

μm

Shaft Diameter mm		Shaft Diameter Tolerance	
		m6	
Over	incl	high	low
-	30	+21	+8
30	50	+25	+9
50	80	+30	+11
80	120	+35	+13
120	180	+40	+15
180	250	+46	+17

Housing bore tolerances

μm

Housing Bore Diameter mm		Housing Bore Tolerances			
		J7		M7	
over	incl	low	high	low	high
-	50	-11	+14	-25	0
50	80	-12	+18	-30	0
80	120	-13	+22	-35	0
120	150	-14	+26	-40	0
150	180	-14	+26	-40	0
180	250	-16	+30	-46	0
250	315	-16	+36	-52	0

Capability And Choice Of Rod Ends

TOLERANCES

Inner ring of ends

d	over	-	6	10	18	30	50	80
mm	incl	6	10	18	30	50	80	120

SI..E	SI..ES							
SI..ES 2RS								
SA..E	SA..ES							
SA..ES 2RS								
GIR..UK	GAR..UK	0	0	0	0	0	0	0
GIR..UK 2RS		-0.008	-0.008	-0.008	-0.010	-0.012	-0.015	-0.020
GAR..UK 2RS								
GK..DO	GIHR..DO							
GF..DO	GIHR-K..DO							
GK..SK	TS..NF							

GIHN-K..LO GF..LO

SI..T/K	SA..T/K							
SI..PK	SA..PK							
SSI..T/K		+0.012	+0.015	+0.018	+0.021	+0.025	+0.030	
SSA..T/K		0	0	0	0	0	0	
PHS..	POS..							
SIZP..S	SAZP..S							
SI..ZK	SA..ZK							
CF..	CF..T	CF..Y	+0.038	+0.038	+0.038	+0.038	+0.038	
CM..	CM..T	CM..Y	-0.013	-0.013	-0.030	-0.030	-0.030	
JF..	JM..							
KF..	KM..					0	0	
						-0.0127	-0.0127	

Center height deviation of rod ends

d	over	-	6	20	30	45	60	
mm	incl	6	20	30	45	60	80	
Δh_s		+0.80	+0.80	+1.00	+1.40	+1.80	+2.25	
		-1.20	-1.20	-1.70	-2.10	-2.70	-3.40	

Capability And Choice Of Radial Spherical Plain Bearings

Bearing Internal Clearance

Bearing internal clearance is defined as the total distance through which one ring can be moved radially (radial internal clearance) or axially (axial internal clearance) in relation to the other ring under a defined measuring load.

It is necessary to distinguish between the internal clearance of a bearing before it is mounted and the internal clearance of a mounted bearing when in operation (operational clearance). The initial clearance will always be greater than the operational clearance because the rings are expanded or compressed by interference fits and as a result of the differences in thermal expansion of the bearing rings and mating components.

The bearing internal clearance referred to as normal has been selected so that when bearings are mounted generally recommended and operate under normal conditions a suitable operational clearance will be obtained. For other conditions, e.g. where both rings are mounted with an interference fit or where unusual temperatures prevail, bearings with greater or smaller internal clearance than normal may be required.

Radial Internal Clearance of Radial Spherical Plain Bearings

Radial Internal Clearance of Steel-on-steel Radial Spherical Plain Bearings

Series GE...E, GE...ES, GE...ES-2RS, GEEW...ES, GEEM...ES-2RS

d mm		Group C2		Group Normal		Group C3	
over	incl	min	max	min	max	min	max
-	12	8	32	32	68	68	104
12	20	10	40	40	82	82	124
20	35	12	50	50	100	100	150
35	60	15	60	60	120	120	180
60	90	18	72	72	142	142	212
90	140	18	85	85	165	165	245
140	200	18	100	100	192	192	284
200	240	18	110	110	214	214	318
240	300	18	125	125	239	239	353
300	320	18	135	135	261	261	387

Series GEG...E, GEG...ES, GEG...ES-2RS

d mm		Group C2		Group Normal		Group C3	
over	incl	min	max	min	max	min	max
-	10	8	32	32	68	68	104
10	17	10	40	40	82	82	124
17	30	12	50	50	100	100	150
30	50	15	60	60	120	120	180
50	80	18	72	72	142	142	212
80	120	18	85	85	165	165	245
120	180	18	100	100	192	192	284
180	220	18	110	110	214	214	318
220	280	18	125	125	239	239	353

Capability And Choice Of Radial Spherical Plain Bearings

Series GEF...ES

d mm		Group C2		Group normal		Group C3	
over	incl	min	max	min	max	min	max
-	12	8	32	32	68	68	104
12	20	10	40	40	82	82	124
20	35	12	50	50	100	100	150
35	55	15	60	60	120	120	180
55	80	18	72	72	142	142	212
80	120	18	85	85	165	165	245
120	150	18	100	100	192	192	284

Series GE...XS/K

d mm		Group Normal	
over	incl	min	max
-	15	70	125
15	30	75	140
30	50	85	150
50	65	90	160
65	80	95	170
80	100	100	185
100	120	110	200
120	150	120	215

Series GEZ...ES,GEZ...ES-2RS,GEWZ...ES,GEWZ...ES-2RS

d mm		Group Normal	
over	incl	min	max
-	15.875	50	150
15.875	50.8	80	180
0.625	2	100	200
50.8	76.2	130	230
2	3		
76.2	152.4		
3	6		

Series GEGZ...ES,GEGZ...ES-2RS

d mm		Group Normal	
over	incl	min	max
12.7	44.45	80	180
0.5	1.75	100	200
44.45	69.85	130	230
1.75	2.75		
69.85	139.7		
2.75	5.5		

Series GEBK...S

d mm		Group Normal	
over	incl	min	max
-	30	0	35

Series GEC...XS,GEC...XS-2RS

d mm		Group C2		Group normal		Group C3	
over	incl	min	max	min	max	min	max
300	340	18	125	125	239	239	353
340	420	18	135	135	261	261	387
420	530	18	145	145	285	285	425
530	670	18	160	160	320	320	475

Capability And Choice Of Radial Spherical Plain Bearings

Radial Internal Clearance Of Steel-on-PTFE Composite Material Radial Spherical Plain Bearings μm

d mm		Group Normal	
over	incl	min	max
90	120	85	285
120	180	100	335
180	220	100	355
220	240	110	356
240	280	110	380
280	300	135	415
300	320	135	490
320	360	135	490
360	380	135	490
380	400	135	510
400	480	145	550
480	500	145	570
500	600	160	610
600	630	160	640

Series GE...C,GEG...C,GEBJ...C,GEFZ...C

μm

d mm		Group Normal	
Over	incl	min	max
-	12	4	28
12	20	5	35
20	30	6	44

Radial Internal Clearance Of Steel-on-PTFE fabric, Steel-on-PTFE plastic and Steel-on-Copper Alloy Radial Spherical Plain Bearings.

Series GE...ET-2RS,GE...XT-2RS,GE-ET/X,GE...ET-2RS/X,GE...XT/X,GE...XT-2RS,GEZ...ET-2RS,GEC...XT,GE...XT-2RS,GE...HT μm

d mm		Group Normal	
Over	incl	min	max
-	20	0	40
20	35	0	50
35	60	0	60
60	90	0	72
90	140	0	85
140	240	0	100
240	300	0	110
300	340	0	125
340	420	0	135
420	530	0	145

Capability And Choice Of Radial Spherical Plain Bearings

Series GEG...ET-2RS,GEG...XT-2RS

 μm

d mm		Group Normal	
over	incl	min	max
-	30	0	50
30	50	0	60
50	80	0	72
80	120	0	85
120	220	0	100
220	280	0	110

Series GE...XF/Q,GEC...XF/Q,GEH...XF/Q,GEH...HF/Q

 μm

d mm		Group Normal	
over	incl	min	max
90	120	85	165
120	180	100	192
180	240	110	214
240	300	125	239
300	380	135	261
380	480	145	285
480	600	160	320
600	630	170	350

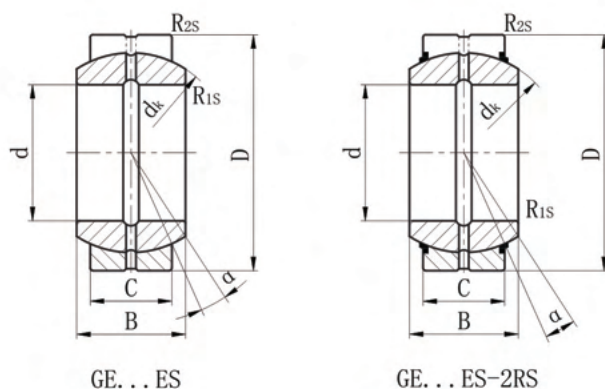
Capability And Choice Of Rod Ends

RADIAL INTERNAL CLEARANCE OF SPHERICAL PLAIN BEARINGS

Spherical plain bearing

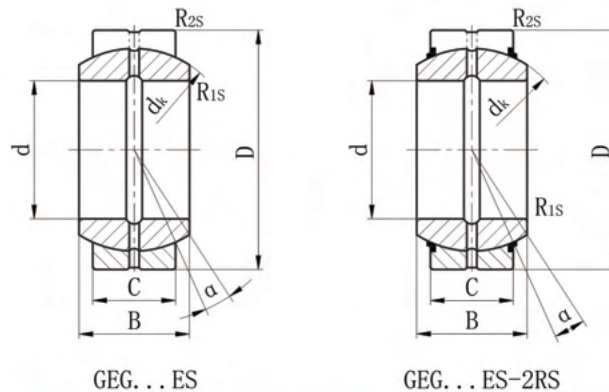
Part No.		d over~incl(mm)	Group Normal min~max(μm)
SI..E	SI..ES	~12	23~68
SI..ES 2RS	SA..ES	12~20	30~82
SA..E		20~35	37~100
SA..ES 2RS		35~60	43~120
GIHR..DO		60~90	55~142
GIHR-K..DO			
GIHN-K..LO			
GK..DO	GF..DO	90~125	65~165
GF..	CM..	~8	65~30
CF..Y	CM..Y	8~14	15~60
JF	JM..	14~20	40~80
		20~35	50~90
		35~50	60~110
SIZP..S	SAZP..S		
PHS..	POS..	~30	0~35
SI..T/K	SA..T/K	~12	0~12
SSI..T/K	SSA..T/K	12~20	0~40
CF..T	CM..T		
SI..PK	SA..PK	20~30	0~50
GIR..UK		~12	0~32
GIR..UK 2RS		12~20	0~40
GAR..UK		20~35	0~50
GAR..UK 2RS		35~60	0~60
		60~80	0~72
SQP..S			20~60
SQ..RS			
SQZ..RS			0~30

Radial spherical plain bearings, steel/steel, metric sizes d 5 - 300mm



Part No.	Dimensions mm								Load ratings kN		Weight kg
	d	D	B	C	dk	R1s min	R2s min	$\alpha \approx$ °	dyn.C	stat.C ₀	
GE 5 E	5	14	6	4	10	0.3	0.3	13	3.4	17	0.005
GE 6 E	6	14	6	4	10	0.3	0.3	13	3.4	17	0.004
GE 8 E	8	16	8	5	13	0.3	0.3	15	5.5	27.5	0.007
GE 10 E	10	19	9	6	16	0.3	0.3	12	8.15	40.5	0.011
GE 12 E	12	22	10	7	18	0.3	0.3	10	10.8	54	0.016
GE 15 ES GE 15 ES 2RS	15	26	12	9	22	0.3	0.3	8	17	85	0.026
GE 16 ES GE 16 ES 2RS	16	30	14	10	25	0.3	0.3	10	21.2	106	0.045
GE 17 ES GE 17 ES 2RS	17	30	14	10	25	0.3	0.3	10	21.2	106	0.041
GE 20 ES GE 20 ES 2RS	20	35	16	12	29	0.3	0.3	9	30	146	0.061
GE 25 ES GE 25 ES 2RS	25	42	20	16	35.5	0.6	0.6	7	48	240	0.11
GE 30 ES GE 30 ES 2RS	30	47	22	18	40.7	0.6	0.6	6	62	310	0.14
GE 35 ES GE 35 ES 2RS	35	55	25	20	47	0.6	1.0	6	80	400	0.22
GE 40 ES GE 40 ES 2RS	40	62	28	22	53	0.6	1.0	7	100	500	0.30
GE 45 ES GE 45 ES 2RS	45	68	32	25	60	0.6	1.0	7	127	640	0.41
GE 50 ES GE 50 ES 2RS	50	75	35	28	66	0.6	1.0	6	156	780	0.53
GE 55 ES GE 55 ES 2RS	55	85	40	32	74	0.6	1.0	7	200	1000	0.94
GE 60 ES GE 60 ES 2RS	60	90	44	36	80	1.0	1.0	6	245	1220	1.00
GE 70 ES GE 70 ES 2RS	70	105	49	40	92	1.0	1.0	6	315	1560	1.50
GE 80 ES GE 80 ES 2RS	80	120	55	45	105	1.0	1.0	6	400	2000	2.20
GE 90 ES GE 90 ES 2RS	90	130	60	50	115	1.0	1.0	5	490	2450	2.70
GE 100 ES GE 100 ES 2RS	100	150	70	55	130	1.0	1.0	7	610	3050	4.30
GE 110 ES GE 110 ES 2RS	110	160	70	55	140	1.0	1.0	6	655	3250	4.70
GE 120 ES GE 120 ES 2RS	120	180	85	70	160	1.0	1.0	6	950	4750	8.00
GE 140 ES GE 140 Es 2RS	140	210	90	70	180	1.0	1.0	7	1080	5400	11.00
GE 160 ES GE 160 Es 2RS	160	230	105	80	200	1.0	1.0	8	1360	6800	14.00
GE 180 ES GE 180 ES 2RS	180	260	105	80	225	1.0	1.0	6	1530	7650	18.50
GE 200 ES GE 200 ES 2RS	200	290	130	100	250	1.1	1.1	7	2120	10600	28.00
GE 220 ES GE 220 ES 2RS	220	320	135	100	275	1.1	1.1	8	2320	11600	35.51
GE 240 ES GE 240 ES 2RS	240	340	140	100	300	1.1	1.1	8	2550	12700	39.91
GE 260 ES GE 260 ES 2RS	260	370	150	110	325	1.1	1.1	7	3030	15190	51.54
GE 280 ES GE 280 ES 2RS	280	400	155	120	350	1.1	1.1	6	3570	17850	65.06
Ge 300 ES GE 300 ES 2RS	300	430	165	120	375	1.1	1.1	7	3800	19100	78.07

Radial spherical plain bearings, steel/steel, metric sizes d 6 - 280 mm

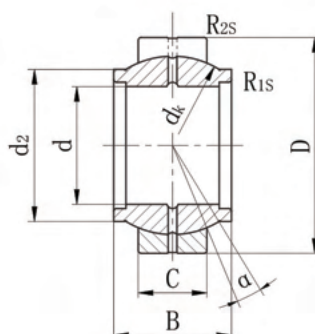


GEG... ES

GEG... ES-2RS

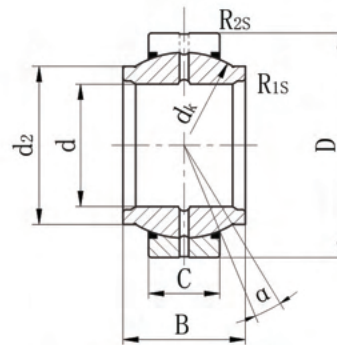
Part No.	Dimensions mm								Load ratings kN		Weight kg
	d	D	B	C	dk	R1s min	R2s min	$\alpha \approx$ °	dyn.C	stat.C ₀	
GEG 6 E	6	16	9	5	13	0.3	0.3	21	5.5	27.5	0.008
GEG 8 E	8	19	11	6	16	0.3	0.3	21	8.15	40.5	0.014
GEG 10 E	10	22	12	7	18	0.3	0.3	18	10.8	54	0.020
GEG 12 E	12	26	15	9	22	0.3	0.3	18	17	85	0.034
GEG 15 ES GEG 15 ES 2RS	15	30	16	10	25	0.3	0.3	16	21.2	106	0.046
GEG 17 ES GEG 17 ES 2RS	17	35	20	12	29	0.3	0.3	19	30.0	146	0.077
GEG 20 ES GEG 20 ES 2RS	20	42	25	16	35.5	0.6	0.6	17	48.0	240	0.150
GEG 25 ES GEG 25 ES 2RS	25	47	28	18	40.7	0.6	0.6	17	62.0	310	0.190
GEG 30 ES GEG 30 ES 2RS	30	55	32	20	47	0.6	1.0	17	80.0	400	0.290
GEG 35 ES GEG 35 ES 2RS	35	62	35	22	53	0.6	1.0	16	100	500	0.380
GEG 40 ES GEG 40 ES 2RS	40	68	40	25	60	0.6	1.0	17	127	640	0.540
GEG 45 ES GEG 45 ES 2RS	45	75	43	28	66	0.6	1.0	15	156	780	0.680
GEG 50 ES GEG 50 ES 2RS	50	90	56	36	80	0.6	1.0	17	245	1220	1.14
GEG 60 ES GEG 60 ES 2RS	60	105	63	40	92	1.0	1.0	17	315	1560	2.00
GEG 70 ES GEG 70 ES 2RS	70	120	70	45	105	1.0	1.0	16	400	2000	2.90
GEG 80 ES GEG 80 ES 2RS	80	130	75	50	115	1.0	1.0	14	490	2450	3.50
GEG 90 ES GEG 90 ES 2RS	90	150	85	55	130	1.0	1.0	15	610	3050	5.40
GEG 100 ES GEG 100 ES 2RS	100	160	85	55	140	1.0	1.0	14	655	3250	5.90
GEG 110 ES GEG 110 ES 2RS	110	180	100	70	160	1.0	1.0	12	950	4750	9.60
GEG 120 ES GEG 120 ES 2RS	120	210	115	70	180	1.0	1.0	16	1080	5400	15.10
GEG 140 ES GEG 140 ES 2RS	140	230	130	80	200	1.0	1.0	16	1360	6800	19.01
GEG 160 ES GEG 160 ES 2RS	160	260	135	80	225	1.0	1.1	16	1530	7650	24.70
GEG 180 ES GEG 180 ES 2RS	180	290	155	100	250	1.1	1.1	14	2120	10600	35.40
GEG 200 ES GEG 200 ES 2RS	200	320	165	100	275	1.1	1.1	15	2320	11600	45.28
GEG 220 ES GEG 220 ES 2RS	220	340	175	100	300	1.1	1.1	16	2550	12700	51.15
GEG 240 ES GEG 240 ES 2RS	240	370	190	110	325	1.1	1.1	15	3030	15190	65.12
GEG 260 ES GEG 260 ES 2RS	260	400	205	120	350	1.1	1.1	15	3570	17850	82.44
GEG 280 ES GEG 280 ES 2RS	280	430	210	120	375	1.1	1.1	15	3800	19100	97.21

Radial spherical plain bearings, steel/steel, metric sizes d 12 - 320 mm



GE...LO

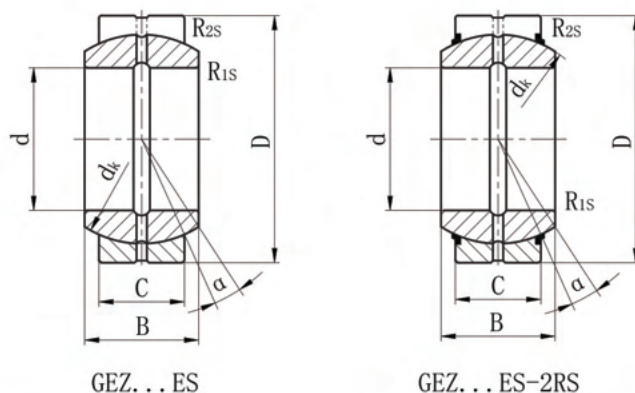
Part No.	Dimensions mm									Load ratings kN		Weight kg
	d	d 2	D	B	C	dk	R1s min	R2s min	$\alpha \approx$ °	dyn.C	stat.C ₀	
GE 12 LO	12	15.5	22	12	7	18	0.3	0.3	4	10	54	0.017
GE 16 LO	16	20	28	16	9	23	0.3	0.3	4	17.6	88	0.035
GE 20 LO	20	25	35	20	12	29	0.3	0.3	4	30	146	0.070
GE 25 LO	25	30.5	42	25	16	35.5	0.6	0.6	4	48	240	0.120
GE 30 LO	30	34	47	30	18	40.7	0.6	0.6	4	62	310	0.168
GE 32 LO	32	37	52	32	18	43	0.6	1.0	4	67	335	0.210
GE 35 LO	35	40	55	35	20	47	0.6	1.0	4	79	399	0.253
GE 40 LO	40	46	62	40	22	53	0.6	1.0	4	100	500	0.330
GE 45 LO	45	52	68	45	25	60	0.6	1.0	4	127	637	0.481
GE 50 LO	50	57	75	50	28	66	0.6	1.0	4	156	780	0.56
GE 60 LO	60	68	90	60	36	80	1.0	1.0	4	245	1220	1.15
GE 63 LO	63	71.5	95	63	36	83	1.0	1.0	4	255	1270	1.25
GE 70 LO	70	78	105	70	40	92	1.0	1.0	4	315	1560	1.71
GE 80 LO	80	91	120	80	45	105	1.0	1.0	4	400	2000	2.39
GE 90 LO	90	99	130	90	50	115	1.0	1.0	4	488	2440	3.21
GE 100 LO	100	113	150	100	55	130	1.0	1.0	4	607	3030	4.80
GE 110 LO	110	124	160	110	55	140	1.0	1.0	4	654	3270	5.78
GE 125 LO	125	138	180	125	70	160	1.0	1.0	4	950	4750	8.49
GE 160 LO	160	177	230	160	80	200	1.0	1.0	4	1360	6800	16.5
GE 200 LO	200	221	290	200	100	250	1.1	1.1	4	2120	10600	32.1
GE 250 LO	250	317	400	250	120	350	1.1	1.1	4	3750	17800	99.1
GE 320 LO	320	405	520	320	160	450	1.1	1.1	4	6200	30500	225

Radial spherical plain bearings, steel/steel, metric sizes **d 17 - 80 mm**

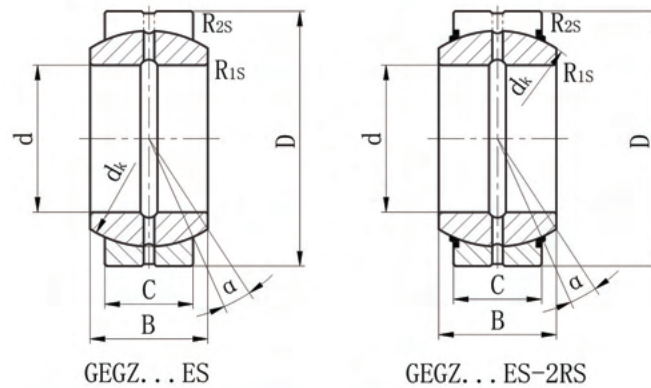
GEEM...ES-2RS

Part No.	Dimensions mm									Load ratings kN		Weight kg
	d	d 2	D	B	C	dk	R1s min	R2s min	$\alpha \approx$ °	dyn.C	stat.C ₀	
GEEM 17 ES 2RS	17	21	30	21	10	25	0.2	0.3	3	21.2	106	0.04
GEEM 20 ES 2RS	20	24	35	24	12	29	0.2	0.3	3	30	146	0.069
GEEM 25 ES 2RS	25	29	42	29	16	35.5	0.2	0.6	3	48	240	0.12
GEEM 30 ES 2RS	30	34	47	30	18	40.7	0.2	0.6	3	62	310	0.15
GEEM 35 ES 2RS	35	40	55	35	20	47	0.3	1.0	3	80	400	0.26
GEEM 40 ES 2RS	40	45	62	38	22	53	0.3	1.0	3	100	500	0.32
GEEM 45 ES 2RS	45	52	68	40	25	60	0.3	1.0	3	127	640	0.43
GEEM 50 ES 2RS	50	57	75	43	28	66	0.3	1.0	3	156	780	0.55
GEEM 60 ES 2RS	60	68	90	54	36	80	0.3	1.0	3	245	1220	1.10
GEEM 70 ES 2RS	70	78	105	65	40	92	0.3	1.0	3	315	1560	1.60
GEEM 80 ES 2RS	80	90	120	74	45	105	0.3	1.0	3	400	2000	2.50

Radial spherical plain bearings, steel/steel, inch sizes **d 0.5 - 6 in**

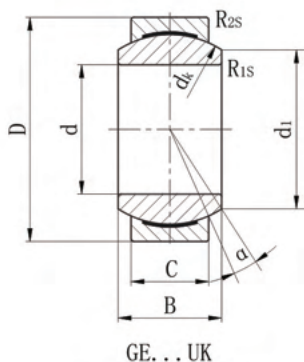


Part No.	Dimensions mm								Load ratings kN		Weight kg
	d	D	B	C	dk	R1s min	R2s min	α°	dyn.C	stat.C ₀	
GEZ 12 ES	12.70	22.225	11.10	9.525	18	0.3	0.6	6	13	41	0.022
GEZ 15 ES	15.875	26.988	13.894	11.913	23	0.3	0.6	6	22	65	0.036
GEZ 19 ES GEZ 19 ES 2RS	19.05	31.75	16.662	14.275	27.5	0.3	0.6	6	31	95	0.053
GEZ 22 ES GEZ 22 ES 2RS	22.225	36.513	19.431	16.662	32	0.3	0.6	6	42	127	0.085
GEZ 25 ES GEZ 25 ES 2RS	25.40	41.275	22.225	19.05	36.5	0.3	0.6	6	56	166	0.121
GEZ 31 ES GEZ 31 ES 2RS	31.75	50.80	27.762	23.80	45.5	0.6	0.6	6	86	260	0.232
GEZ 34 ES GEZ 34 ES 2RS	34.925	55.563	30.15	26.187	49	0.6	1.0	5	102	310	0.351
GEZ 38 ES GEZ 38 ES 2RS	38.10	61.913	33.325	28.575	54.7	0.6	1.0	6	125	375	0.422
GEZ 44 ES GEZ 44 ES 2RS	44.45	71.438	38.887	33.325	63.9	0.6	1.0	6	170	510	0.641
GEZ 50 ES GEZ 50 ES 2RS	50.80	80.963	44.45	38.10	73	0.6	1.0	6	224	670	0.932
GEZ 57 ES GEZ 57 ES 2RS	57.15	90.488	50.013	42.85	82	0.6	1.0	6	280	850	1.33
GEZ 63 ES GEZ 63 ES 2RS	63.50	100.013	55.55	47.625	92	1.0	1.0	6	355	1050	1.85
GEZ 69 ES GEZ 69 ES 2RS	69.85	111.125	61.112	52.375	100	1.0	1.0	6	415	1250	2.42
GEZ 76 ES GEZ 76 ES 2RS	76.20	120.65	66.675	57.15	109.5	1.0	1.0	6	500	1500	3.10
GEZ 82 ES GEZ 82 ES 2RS	82.55	130.175	72.238	61.90	119	1.0	1.0	6	585	1760	3.82
GEZ 88 ES GEZ 88 ES 2RS	88.90	139.70	77.775	66.675	128	1.0	1.0	6	680	2040	4.79
GEZ 95 ES GEZ 95 ES 2RS	95.25	149.225	83.337	71.425	137	1.0	1.0	6	780	2360	5.80
GEZ 101 ES GEZ 101 ES 2RS	101.60	158.75	88.90	76.20	146	1.0	1.0	6	900	2650	7.00
GEZ 107 ES GEZ 107 ES 2RS	107.95	168.275	94.463	80.95	154.9	1.0	1.0	6	1000	2900	8.41
GEZ 114 ES GEZ 114 ES 2RS	114.30	177.80	100.013	85.725	164.5	1.0	1.0	6	1120	3400	9.80
GEZ 120 ES GEZ 120 ES 2RS	120.65	187.325	105.562	90.475	173.5	1.0	1.0	6	1250	3750	11.5
GEZ 127 ES GEZ 127 ES 2RS	127.00	196.85	111.125	95.25	183	1.0	1.0	6	1400	4150	13.5
GEZ 152 ES GEZ 152 ES 2RS	152.40	222.25	120.65	104.775	207	1.0	1.0	5	1730	5200	17.5

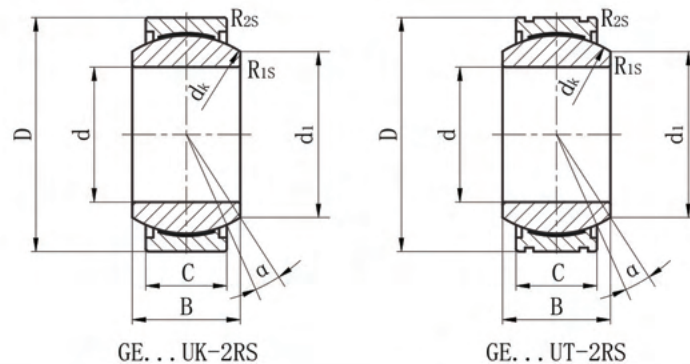
Radial spherical plain bearings, steel/steel, inch sizes **d 1.25 - 4 in**

Part No.	Dimensions mm									Load ratings kN		Weight kg
	d	D	B	C	dk	R1s min	R2s min	$\alpha \approx ^\circ$		dyn.C	stat.C ₀	
GEGZ 31 ES GEGZ 31 ES 2RS	31.75	61.913	35.306	28.575	54.7	0.6	1.0	8		125	375	0.454
GEGZ 38 ES GEGZ 38 ES 2RS	38.10	71.438	40.132	33.325	63.9	0.6	1.0	7		170	510	0.726
GEGZ 44 ES GEGZ 44 ES 2RS	44.45	80.963	46.228	38.100	73	0.6	1.0	7		224	670	1.14
GEGZ 50 ES GEGZ 50 ES 2RS	50.80	90.488	52.578	42.850	82	0.6	1.0	8		280	850	1.68
GEGZ 57 ES GEGZ 57 ES 2RS	57.15	100.013	58.877	47.625	92	0.6	1.0	8		355	1060	2.01
GEGZ 63 ES GEGZ 63 ES 2RS	63.50	111.125	64.643	52.375	100	1.0	1.0	8		415	1250	2.95
GEGZ 69 ES GEGZ 69 ES 2RS	69.85	120.65	70.886	57.150	109.5	1.0	1.0	8		500	1500	3.63
GEGZ 76 ES GEGZ 76 ES 2RS	76.20	130.175	76.759	61.900	119	1.0	1.0	8		585	1760	4.36
GEGZ 82 ES GEGZ 82 ES 2RS	82.55	139.70	82.931	66.675	128	1.0	1.0	8		680	2040	5.31
GEGZ 88 ES GEGZ 88 ES 2RS	88.90	149.225	90.424	71.425	137	1.0	1.0	9		780	2360	6.81
GEGZ 95 ES GEGZ 95 ES 2RS	95.25	158.75	94.945	76.200	146	1.0	1.0	9		900	2650	8.85
GEGZ 101 ES GEGZ 101 ES 2RS	101.6	177.80	107.315	85.725	164.5	1.0	1.0	9		1120	3400	10.20

Radial spherical plain bearings, steel/PTFE composite material,
metric sizes **d 6 - 30 mm**

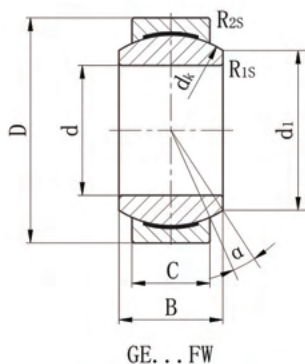


Part No.	Dimensions mm									Load ratings kN		Weight kg
	d	D	B	C	d1 min	dk	R1s min	R2s min	$\alpha \approx$ °	dyn.C	stat.C ₀	
GE 6 UK	6	14	6	4	8	10	0.3	0.3	13	3.6	9.1	0.004
GE 8 UK	8	16	8	5	10	13	0.3	0.3	15	5.8	14	0.008
GE 10 UK	10	19	9	6	13	16	0.3	0.3	12	8.6	21	0.011
GE 12 UK	12	22	10	7	15	18	0.3	0.3	10	11	28	0.015
GE 15 UK	15	26	12	9	18	22	0.3	0.3	8	18	45	0.027
GE 17 UK	17	30	14	10	20	25	0.3	0.3	10	22	56	0.041
GE 20 UK	20	35	16	12	24	29	0.3	0.3	9	31	78	0.066
GE 25 UK	25	42	20	16	29	35.5	0.6	0.6	7	51	127	0.119
GE 30 UK	30	47	22	18	34	40.7	0.6	0.6	6	65	166	0.163

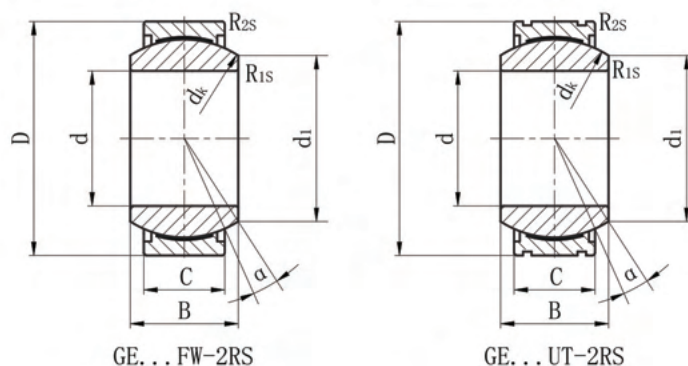
Radial spherical plain bearings, steel/PTFE fabric, metric sizes **d 15 - 300 mm**

Part No.	Dimensions mm									Load ratings kN		Weight kg
	d	D	B	C	d1 min	dk	R1s min	R2s min	$\alpha \approx ^\circ$	dyn.C	stat.C ₀	
GE 15 UK 2RS	15	26	12	9	18	22	0.3	0.3	8	26	52	0.035
GE 17 UK 2RS	17	30	14	10	20	25	0.3	0.3	10	48.7	81.2	0.041
GE 20 UK 2RS	20	35	16	12	24	29	0.3	0.3	9	67.5	112	0.066
GE 25 UK 2RS	25	42	20	16	29	35.5	0.6	0.6	7	127	212	0.119
GE 30 UK 2RS	30	47	22	18	34	40.7	0.6	0.6	6	165	275	0.153
GE 35 UK 2RS	35	55	25	20	39	47	0.6	1.0	6	210	350	0.233
GE 40 UK 2RS	40	62	28	22	45	53	0.6	1.0	7	277	462	0.306
GE 45 UK 2RS	45	68	32	25	50	60	0.6	1.0	7	360	600	0.427
GE 50 UK 2RS	50	75	35	28	55	66	0.6	1.0	6	442	737	0.546
GE 60 UK 2RS	60	90	44	36	66	80	1.0	1.0	6	690	1150	1.04
GE 70 UK 2RS	70	105	49	40	77	92	1.0	1.0	6	885	1475	1.55
GE 80 UK 2RS	80	120	55	45	88	105	1.0	1.0	6	1125	1875	2.31
GE 90 UK 2RS	90	130	60	50	98	115	1.0	1.0	5	1380	2300	2.75
GE 100 UK 2RS	100	150	70	55	109	130	1.0	1.0	7	1717	2862	4.45
GE 110 UK 2RS	110	160	70	55	121	140	1.0	1.0	6	1845	3075	4.82
GE 120 UK 2RS	120	180	85	70	135	160	1.0	1.0	6	2685	4475	8.05
GE 140 UK 2RS	140	210	90	70	155	180	1.0	1.0	7	3015	5025	11.02
GE 160 UK 2RS	160	230	105	80	170	200	1.0	1.0	8	3840	6400	14.01
GE 180 UK 2RS	180	260	105	80	199	225	1.1	1.1	6	4320	7200	18.65
GE 200 UK 2RS	200	290	130	100	213	250	1.1	1.1	7	6000	10000	28.03
GE 220 UK 2RS	220	320	135	100	239	275	1.1	1.1	8	6600	11000	35.51
GE 240 UK 2RS	240	340	140	100	265	300	1.1	1.1	8	7200	12000	39.91
GE 260 UK 2RS	260	370	150	110	288	325	1.1	1.1	7	8550	14250	51.54
GE 280 UK 2RS	280	400	155	120	313	350	1.1	1.1	6	10050	16750	65.06
GE 300 UK 2RS	300	430	165	120	336	375	1.1	1.1	7	10800	18000	78.07

Radial spherical plain bearings, steel/PTFE composite material,
metric sizes **d 6 - 30 mm**

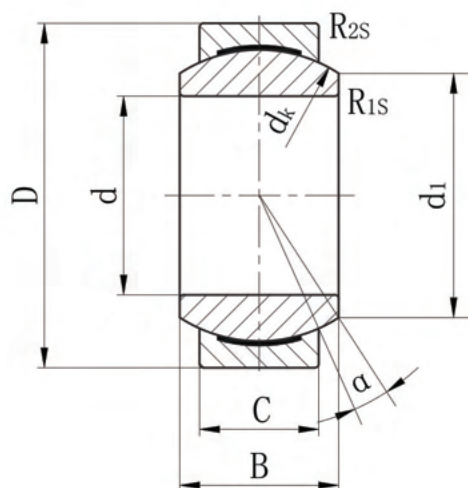


Part No.	Dimensions mm									Load ratings kN		Weight kg
	d	D	B	C	d1 min	dk	R1s min	R2s min	$\alpha \approx$ °	dyn.C	stat.C ₀	
GE 6 FW	6	16	9	5	9	13	0.3	0.3	21	5.8	14	0.008
GE 8 FW	8	19	11	6	11	16	0.3	0.3	21	8.6	21	0.014
GE 10 FW	10	22	12	7	13	18	0.3	0.3	18	11	28	0.021
GE 12 FW	12	26	15	9	16	22	0.3	0.3	18	18	45	0.033
GE 15 FW	15	30	16	10	19	25	0.3	0.3	16	22	56	0.049
GE 17 FW	17	35	20	12	21	29	0.3	0.3	19	31	78	0.083
GE 20 FW	20	42	25	16	24	35.5	0.3	0.3	17	51	127	0.153
GE 25 FW	25	47	28	18	29	40.7	0.6	0.6	17	65	166	0.203
GE 30 FW	30	55	32	20	34	47	0.6	0.6	17	83	212	0.304

Radial spherical plain bearings, steel/PTFE fabric, metric sizes **d 15 - 280 mm**

Part No.	Dimensions mm								Load ratings kN		Weight kg
	d	D	B	C	dk	R1s min	R2s min	$\alpha \approx$ °	dyn.C	stat.C ₀	
GE 15 FW 2RS	15	30	16	10	25	0.3	0.3	16	22.4	56	0.046
GE 17 FW 2RS	17	35	20	12	29	0.3	0.3	19	31.5	78	0.078
GE 20 FW 2RS	20	42	25	16	35.5	0.6	0.6	17	51	127	0.15
GE 25FW 2RS	25	47	28	18	40.7	0.6	0.6	17	65.5	166	0.19
GE 30 FW 2RS	30	55	32	20	47	0.6	1.0	17	210	350	0.29
GE 35FW 2RS	35	62	35	22	53	0.6	1.0	16	277	462	0.39
GE 40 FW 2RS	40	68	40	25	60	0.6	1.0	17	360	600	0.52
GE 45 FW 2RS	45	75	43	28	66	0.6	1.0	15	442	737	0.68
GE 50 FW 2RS	50	90	56	36	80	0.6	1.0	17	690	1150	1.40
GE 60 FW 2RS	60	105	63	40	92	1.0	1.0	17	885	1475	2.0
GE 70 FW 2RS	70	120	70	45	105	1.0	1.0	16	1125	1875	2.90
GE 80 FW 2RS	80	130	75	50	115	1.0	1.0	14	1380	2300	3.50
GE 90 FW 2RS	90	150	85	55	130	1.0	1.0	15	1717	2862	5.40
GE 100 FW 2RS	100	160	85	55	140	1.0	1.0	14	1845	3075	6.0
GE 110 FW 2RS	110	180	100	70	160	1.0	1.0	12	2685	4475	9.7
GE 120 FW 2RS	120	210	115	70	180	1.0	1.0	16	3015	5025	14
GE 140 FW 2RS	140	230	130	80	200	1.0	1.0	16	3840	6400	19
GE 160 FW 2RS	160	260	135	80	225	1.1	1.1	16	4320	7200	24.7
GE 180 FW 2RS	180	290	155	100	250	1.1	1.1	14	6000	10000	35.9
GE 200 FW 2RS	200	320	165	100	275	1.1	1.1	15	6600	11000	45.3
GE 220 FW 2RS	220	340	175	100	300	1.1	1.1	16	7200	12000	51.1
GE 240 FW 2RS	240	370	190	110	325	1.1	1.1	15	8550	14250	65.1
GE 260 FW 2RS	260	400	205	120	350	1.1	1.1	15	10050	16750	82.4
GE 280 FW 2RS	280	430	210	120	375	1.1	1.1	15	10800	18000	97.2

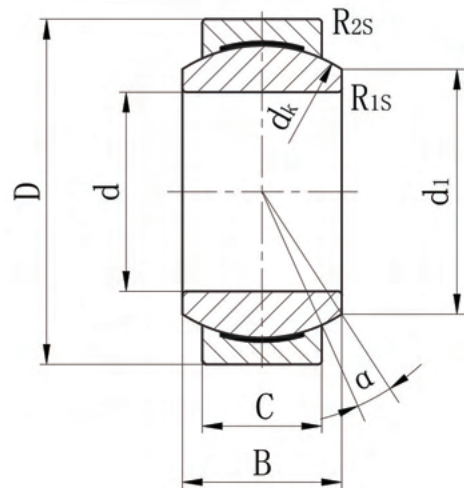
Radial spherical plain bearings, stainless steel/PTFE composite material,
metric sizes **d 6 - 30 mm**



SGE...UK

Part No.	Dimensions mm									Load ratings kN		Weight kg
	d	D	B	C	d1 min	dk	R1s min	R2s min	α°	dyn.C	stat.C ₀	
SGE 6 UK	6	14	6	4	8	10	0.3	0.3	13	3.6	9.1	0.004
SGE 8 UK	8	16	8	5	10	13	0.3	0.3	15	5.8	14	0.008
SGE 10 UK	10	19	9	6	13	16	0.3	0.3	12	8.6	21	0.011
SGE 12 UK	12	22	10	7	15	18	0.3	0.3	10	11	28	0.015
SGE 15 UK	15	26	12	9	18	22	0.3	0.3	8	18	45	0.027
SGE 17 UK	17	30	14	10	20	25	0.3	0.3	10	22	56	0.041
SGE 20 UK	20	35	16	12	24	29	0.3	0.3	9	31	78	0.066
SGE 25 UK	25	42	20	16	29	35.5	0.6	0.6	7	51	127	0.119
SGE 30 UK	30	47	22	18	34	40.7	0.6	0.6	6	65	166	0.163

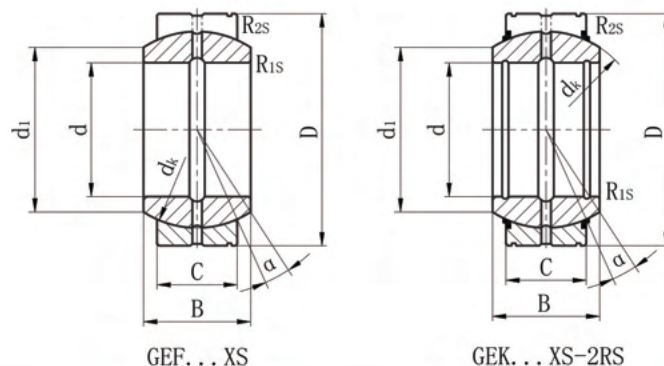
Radial spherical plain bearings, stainless steel/PTFE fabric,
metric sizes **d 6 - 30 mm**



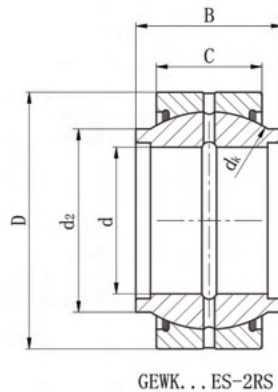
SGE...FW

Part No.	Dimensions mm									Load ratings kN		Weight kg
	d	D	B	C	d1 min	dk	R1s min	R2s min	$\alpha \approx$ °	dyn.C	stat.C ₀	
SGE 6 FW	6	16	9	5	9	13	0.3	0.3	21	5.8	14	0.008
SGE 8 FW	8	19	11	6	11	16	0.3	0.3	21	8.6	21	0.014
SGE 10 FW	10	22	12	7	13	18	0.3	0.3	18	11	28	0.021
SGE 12 FW	12	26	15	9	16	22	0.3	0.3	18	18	45	0.033
SGE 15 FW	15	30	16	10	19	25	0.3	0.3	16	22	56	0.049
SGE 17 FW	17	35	20	12	21	29	0.3	0.3	19	31	78	0.083
SGE 20 FW	20	42	25	16	24	35.5	0.3	0.3	17	51	127	0.153
SGE 25 FW	25	47	28	18	29	40.7	0.6	0.6	17	65	166	0.203
SGE 30 FW	30	55	32	20	34	47	0.6	0.6	17	83	212	0.304

Radial spherical plain bearings, steel/steel, metric sizes **d 12 - 60 mm**

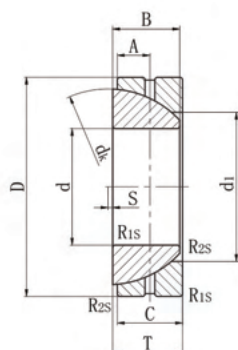


Part No.	Dimensions mm									Load ratings kN		Weight kg
	d	D	B	C	dk	d1	R1s min	R2s min	$\alpha \approx$ °	dyn.C	stat.C ₀	
GEF 12 XS/K	12	22	11	9	18	14	0.5	0.5	7	13	68	0.019
GEF 15 XS/K	15	26	13	11	22	17.5	0.5	0.5	6	20	102	0.028
GEF 20 XS/K	20	32	16	14	28	23	0.5	0.5	4	33	106	0.053
GEF 22 XS/K	22	37	19	16	32	25.5	0.5	0.5	6	43	217	0.085
GEF 25 XS/K	25	42	21	18	36	29	0.5	0.5	5	55	275	0.116
GEF 30 XS/K	30	50	27	23	45	36	1.0	1.0	6	87	439	0.225
GEF 35 XS/K	35	55	30	26	50	40	1.0	1.0	5	110	552	0.302
GEF 40 XS/K	40	62	33	28	55	44	1.0	1.0	6	130	654	0.375
GEF 45 XS/K	45	72	36	31	62	50.5	1.0	1.0	5	163	816	0.598
GEF 50 XS/K	50	80	42	36	72	58.5	1.0	1.0	5	220	1100	0.869
GEF 55 XS/K	55	90	47	40	80	64.5	1.0	1.0	6	272	1360	1.26
GEF 60 XS/K	60	100	53	45	90	72.5	1.0	1.0	6	344	1720	1.72
GEF 65 XS/K	65	105	55	47	94	76	1.0	1.0	5	375	1870	2.05
GEF 70 XS/K	70	110	58	50	100	81.5	1.0	1.0	5	425	2125	2.23
GEF 75 XS/K	75	120	64	55	110	89.5	1.0	1.0	5	510	2750	3.01
GEF 80 XS/K	80	130	70	60	120	97.5	1.0	1.0	5	610	3060	3.98
GEF 85 XS/K	85	135	74	63	125	100.5	1.0	1.0	6	669	3340	4.31
GEF 90 XS/K	90	140	76	65	130	105.5	1.0	1.0	5	718	3590	4.72
GEF 95 XS/K	95	150	82	70	140	113.5	1.0	1.0	5	833	4165	6.05
GEF 100 XS/K	100	160	88	75	150	121.5	1.5	1.5	5	956	4780	7.43
GEF 110 XS/K	110	170	93	80	160	130	1.5	1.5	5	1080	5440	8.54
GEF 115 XS/K	115	180	98	85	165	132.5	1.5	1.5	5	1190	5960	10.3
GEF 120 XS/K	120	190	105	90	175	140	1.5	1.5	6	1330	6690	12.4
GEF 130 XS/K	130	200	110	95	185	148.5	1.5	1.5	5	1490	7460	13.8
GEF 150 XS/K	150	220	120	105	205	166	1.5	1.5	5	1820	9140	17.1
GEK 25 XS/2RS	25	68	40	28	50	30	0.6	1.0	19	117	590	0.516
GEK 30 XS/2RS	30	70	47	32	60	37.3	0.6	1.0	19	163	813	0.785
GEK 35 XS/2RS	35	80	54	38	70	44.5	0.6	1.0	17	226	1130	1.23
GEK 40 XS/2RS	40	90	64	44	80	48	0.6	1.0	19	298	1490	1.83
GEK 45 XS/2RS	45	100	72	52	90	54	0.6	1.0	17	398	1990	2.56
GEK 50 XS/2RS	50	110	80	58	100	60	1.0	1.0	17	493	2450	3.43
GEK 55 XS/2RS	55	125	90	64	110	63.2	1.0	1.0	19	598	2990	5.02
GEK 60 XS/2RS	60	135	98	72	120	69.3	1.0	1.0	17	732	3660	6.43

Radial spherical plain bearings, steel/steel, metric sizes **d 45 - 120 mm**

Part No.	Dimensions mm						Load ratings kN		Weight kg
	d	D	B	C	d2 min	dk	dyn.C	stat.C ₀	
GEWK 45 ES 2RS	45	75	57	42	54	70	200	720	1.07
GEWK 60 ES 2RS	60	100	72	56	74.5	92	315	1560	2.33
GEWK 70 ES 2RS	70	115	85	62	83	105	400	2000	2.04
GEWK 80 ES 2RS/UK2	80	130	85	50	92	115	490	2450	3.05
GEWK 80 ES 2RS/UK3	80	150	85	55	100	130	610	3050	5.37
GEWK 80 ES 2RS/UK5	80	130	97	50	96	115	490	2450	3.74
GEWK 80 ES 2RS/UK6	80	130	81.5	50	96	115	490	2450	3.43
GEWK 90 ES 2RS/UK2	90	150	95	55	105	130	610	3050	5.41
GEWK 90 ES 2RS/UK4	90	150	107	80	114	130	610	3050	6.04
GEWK 100 ES 2RS	100	150	107	80	111	130	610	3050	4.81
GEWK 120 ES 2RS	120	180	123	70	137	160	950	4750	6.33

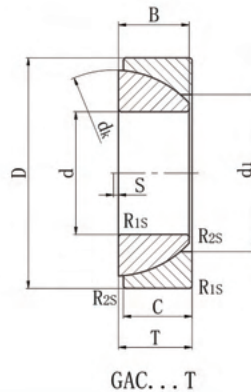
Angular contact plain bearings, steel/steel, metric sizes **d 25 - 200 mm**



GAC...S

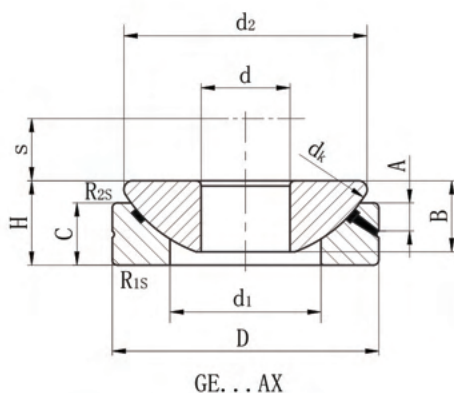
Part No.	Dimensions mm											Load ratings kN		Weight kg
	d	D	T	dk	d1	B	C	S	A	R1s min	R2s min	dyn.C	stat.C ₀	
GAC 25 S	25	47	15	42.5	31.4	15	14	0.6	7.5	0.6	0.2	47.5	236	0.13
GAC 28 S	28	52	16	47	35.7	15	15	1	8	1.0	0.3	60	300	0.17
GAC 30 S	30	55	17	50	36.1	17	15	1.3	8.5	1.0	0.3	63	315	0.21
GAC 32 S	32	58	17	52	37.5	17	16	2	8.5	1.0	0.3	71	354	0.24
GAC 35 S	35	62	18	56	42.4	18	16	2.1	9	1.0	0.3	76.5	390	0.27
GAC 40 S	40	68	19	60	46.8	19	17	2.8	9.5	1.0	0.3	90	450	0.32
GAC 45 S	45	75	20	66	52.9	20	18	3.5	10	1.0	0.3	106	530	0.41
GAC 50 S	50	80	20	74	59.1	20	19	4.3	10	1.0	0.3	118	585	0.45
GAC 55 S	55	90	23	80	62	23	20	5	11.5	1.1	0.6	146	735	0.67
GAC 60 S	60	95	23	86	68.1	23	21	5.7	11.5	1.1	0.6	160	800	0.72
GAC 65 S	65	100	23	92	75.6	23	22	6.5	11.5	1.1	0.6	173	765	0.76
GAC 70 S	70	110	25	102	82.2	25	23	7.2	12.5	1.1	0.6	208	1040	1.0
GAC 75 S	75	115	25	107	84.4	25	24	7.9	12.5	1.1	0.6	220	1129	1.1
GAC 80 S	80	125	29	115	90.5	29	25.5	8.6	14.5	1.1	0.6	250	1250	1.5
GAC 85 S	85	130	29	122	94.8	29	26.5	9.4	14.5	1.1	0.6	284	1422	1.6
GAC 90 S	90	140	32	130	103.3	32	28	10.1	16	1.5	0.6	320	1600	2.1
GAC 95 S	95	145	32	135	104.4	32	29.5	10.8	16	1.5	0.6	335	1750	2.2
GAC 100 S	100	150	32	140	114.3	32	31	11.6	16	1.5	0.6	345	1760	2.3
GAC 105 S	105	160	35	148	113.8	35	32.5	12.3	17.5	2.0	0.6	423	2116	2.9
GAC 110 S	110	170	38	160	125.8	38	34	13	19	2.0	0.6	475	2360	3.6
GAC 120 S	120	180	38	170	135.4	38	37	14.5	19	2.0	0.6	510	2550	3.9
GAC 130 S	130	200	45	190	148	45	43	18	19	2.5	0.6	640	3200	5.9
GAC 140 S	140	210	45	200	160.6	45	43	19	19	2.5	0.6	680	3450	6.3
GAC 150 S	150	225	48	213	170.9	48	46	20	20.5	3.0	1.0	780	3900	7.7
GAC 160 S	160	240	51	225	181.4	51	49	20	22	3.0	1.0	900	4500	9.4
GAC 170 S	170	260	57	250	194.3	57	55	21	27	3.0	1.0	1100	5500	12.0
GAC 180 S	180	280	64	260	205.5	64	61	21	28	3.0	1.0	1320	6700	17.0
GAC 190 S	190	290	64	275	211.8	64	62	26	30	3.0	1.0	1370	6950	18.0
GAC 200 S	200	310	70	290	229.2	70	66	26	30	3.0	1.0	1560	7800	22.5

Angular contact plain bearings, steel/ PTFE fabric, metric sizes **d 25 - 200 mm**



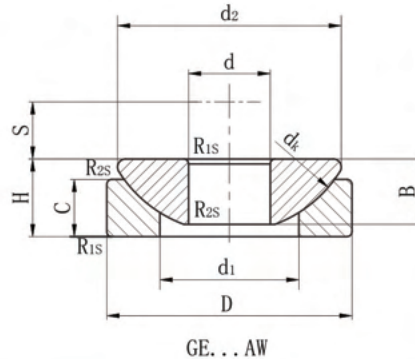
Part No.	Dimensions mm										Load ratings kN		Weight kg
	d	D	T	dk	d1	B	C	S	R1s min	R2s min	dyn.C	stat.C ₀	
GAC 25 T	25	47	15	42.5	31.4	15	14	0.6	1.0	0.2	71	140	0.14
GAC 28 T	28	52	16	47	35.7	16	15	1.0	1.0	0.3	90	180	0.18
GAC 30 T	30	55	17	50	36.1	17	15	1.3	1.0	0.3	95	190	0.22
GAC 32 T	32	58	17	52	37.5	17	16	2.0	1.0	0.3	102	204	0.24
GAC 35 T	35	62	18	56	42.4	18	16	2.1	1.0	0.3	116	232	0.28
GAC 40 T	40	68	19	60	46.8	19	17	2.8	1.0	0.3	134	270	0.34
GAC 45 T	45	75	20	66	52.9	20	18	3.5	1.0	0.3	160	320	0.43
GAC 50 T	50	80	20	74	59.1	20	19	4.3	1.0	0.3	176	355	0.47
GAC 55 T	55	90	23	80	62	23	20	5	1.1	0.6	220	440	0.70
GAC 60 T	60	95	23	86	68.1	23	21	5.7	1.1	0.6	240	480	0.75
GAC 65 T	65	100	23	92	75.6	23	22	6.5	1.1	0.6	260	520	0.8
GAC 70 T	70	110	25	102	82.2	25	23	7.2	1.1	0.6	315	630	1.0
GAC 75 T	75	115	25	107	84.4	25	24	7.9	1.1	0.6	345	670	1.1
GAC 80 T	80	125	29	115	90.5	29	25.5	8.6	1.1	0.6	375	750	1.6
GAC 85 T	85	130	29	122	94.8	29	26.5	9.4	1.1	0.6	425	810	1.7
GAC 90 T	90	140	32	130	103.3	32	28	10.1	1.5	0.6	480	965	2.2
GAC 95 T	95	145	32	135	104.4	32	29.5	10.8	1.5	0.6	500	1000	2.3
GAC 100 T	100	150	32	140	114.3	32	31	11.6	1.5	0.6	520	1040	2.4
GAC 105 T	105	160	35	148	113.8	35	32.5	12.3	2.0	2.0	565	1250	2.9
GAC 110 T	110	170	38	160	125.8	38	34	13	2.0	0.6	710	1430	3.7
GAC 120 T	120	180	38	170	135.4	38	37	14.5	2.0	0.6	765	1530	4.0
GAC 130 T	130	200	45	190	148	45	43	18	2.5	0.6	965	1930	6.0
GAC 140 T	140	210	45	200	160.6	45	43	19	2.5	0.6	1020	2040	6.4
GAC 150 T	150	225	48	213	170.9	48	46	20	3.0	1.0	1180	2360	7.9
GAC 160 T	160	240	51	225	181.4	51	49	20	3.0	1.0	1340	2700	9.6
GAC 170 T	170	260	57	250	194.3	57	55	21	3.0	1.0	1660	3350	13.0
GAC 180 T	180	280	64	260	205.5	64	61	21	3.0	1.0	2000	4000	17.5
GAC 190 T	190	290	64	275	211.8	64	62	26	3.0	1.0	2080	4150	18.0
GAC 200 T	200	310	70	290	229.2	70	66	26	3.0	1.0	2360	4750	23.0

Thrust spherical plain bearings, steel/steel, metric sizes **d 10 - 200 mm**



Part No.	Dimensions mm												Load ratings kN		Weight kg
	d	D	H	dk	d1	d2	B	C	S	A	R1s min	R2s min	dyn.C	stat.C ₀	
GE 10 AX	10	30	9.5	32	16.5	27.5	7.9	6	7	3	0.6	0.2	24	120	0.04
GE 12 AX	12	35	13	37	19.5	32	9.3	9	8	4	0.6	0.2	32.5	163	0.07
GE 15 AX	15	42	15	45	24	38.9	10.7	11	10	5	0.6	0.2	52	260	0.12
GE 17 AX	17	47	16	50	28	43.4	11.5	11.5	11	5	0.6	0.15	58.5	300	0.16
GE 20 AX	20	55	20	60	33.5	50	14.3	13	12.5	6	1.0	0.3	75	375	0.25
GE 25 AX	25	62	22.5	66	34.5	57.5	16	17	14	6	1.0	0.3	129	640	0.38
GE 30 AX	30	75	26	80	44	69	18	19.5	17.5	8	1.0	0.3	170	850	0.65
GE 35 AX	35	90	28	98	52	84	22	20	22	8	1.0	0.3	260	1290	1.0
GE 40 AX	40	105	32	114	59	98	27	22	24.5	9	1.0	0.3	375	1860	1.6
GE 45 AX	45	120	36.5	130	68	112	31	25	27.5	11	1.0	0.3	490	2450	2.4
GE 50 AX	50	130	42.5	140	69	122.5	33.5	32	30	10	1.0	0.3	655	3250	3.3
GE 60 AX	60	150	45	160	86	140	37	33	35	12.5	1.0	0.3	735	3650	4.5
GE 70 AX	70	160	50	170	95	149.5	40	36	35	13.5	1.0	0.3	800	4050	5.5
GE 80 AX	80	180	50	194	108	168	42	36	42.5	14.5	1.0	0.3	1040	5200	7.0
GE 100 AX	100	210	59	220	133	195.5	50	42	45	15	1.0	0.3	1200	6000	10.5
GE 120 AX	120	230	64	245	154	214	52	45	52.5	16.5	1.0	0.3	1250	6200	13.0
GE 140 AX	140	260	72	272	176	244	61	50	52.5	23	1.5	0.6	1630	8150	18.0
GE 160 AX	160	290	77	310	199	272	65	52	65	23	1.5	0.6	1900	9500	23.0
GE 180 AX	180	320	86	335	224	300	70	60	67.5	26	1.5	0.6	2120	10600	31.0
GE 200 AX	200	340	87	358	246	321	74	60	70	27	1.5	0.6	2360	11800	34.0

Thrust spherical plain bearings, steel/ PTFE fabric,
metric sizes **d 10 - 360 mm**

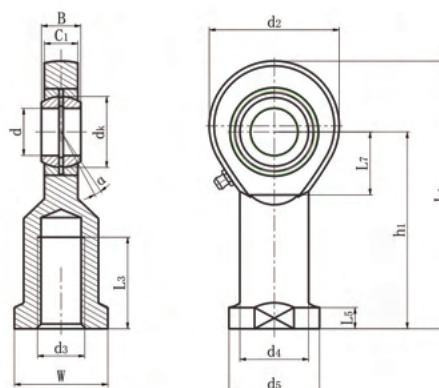


Part No.	Dimensions mm											Load ratings kN		Weight kg
	d	D	H	d _k	d ₁	d ₂	B	C	S	R1s min	R2s min	dyn.C	stat.C ₀	
GE 10 AW	10	30	9.5	32	16.5	27.5	7.9	6.0	7.0	0.6	0.2	36	72	0.04
GE 12 AW	12	35	13	37	19.5	32	9.3	9.0	8.0	0.6	0.2	49	98	0.07
GE 15 AW	15	42	15	45	24	38.9	10.7	11	10	0.6	0.2	78	156	0.12
GE 17 AW	17	47	16	50	28	43.4	11.5	11.5	11	0.6	0.2	88	176	0.16
GE 20 AW	20	55	20	60	33.5	50	14.3	13	12.5	1.0	0.3	112	224	0.25
GE 25 AW	25	62	22.5	66	34.5	57.5	16	17	14.0	1.0	0.3	193	390	0.38
GE 30 AW	30	75	26	80	44	69	18	19.5	17.5	1.0	0.3	255	510	0.65
GE 35 AW	35	90	28	98	52	84	22	20	22	1.0	0.3	390	780	1.0
GE 40 AW	40	105	32	114	59	98	27	22	24.5	1.0	0.3	560	1120	1.6
GE 45 AW	45	120	36.5	130	68	112	31	25	27.5	1.0	0.3	735	1460	2.4
GE 50 AW	50	130	42.5	140	69	122.5	33.5	32	30	1.0	0.3	980	1960	3.3
GE 60 AW	60	150	45	160	86	140	37	33	35	1.0	0.3	1100	2200	4.5
GE 70 AW	70	160	50	170	95	149.5	40	36	35	1.0	0.3	1200	2400	5.5
GE 80 AW	80	180	50	194	108	168	42	36	42.5	1.0	0.3	1560	3100	7.0
GE 100 AW	100	210	59	220	133	195.5	50	42	45	1.0	0.3	1800	3600	10.5
GE 120 AW	120	230	64	245	154	214	52	45	52.5	1.0	0.3	1860	3750	13
GE 140 AW	140	260	72	272	176	244	61	50	52.5	1.5	0.6	2450	4900	18
GE 160 AW	160	290	77	310	199	272	65	52	65	1.5	0.6	2850	5700	23
GE 180 AW	180	320	86	335	224	300	70	60	67.5	1.5	0.6	3200	6400	31
GE 200 AW	200	340	87	358	246	321	74	60	70	1.5	0.6	3550	7100	34
GE 220 AW	220	370	97	388	265	350	82	67	75	1.5	0.6	4400	8800	44.5
GE 240 AW	240	400	103	420	294	382	87	73	77.5	1.5	0.6	5200	10400	55
GE 260 AW	260	430	115	449	317	409	95	80	82.5	1.5	0.6	5400	10800	69
GE 280 AW	280	460	110	480	337	445	100	85	80	3.0	1.0	8500	17000	82
GE 300 AW	300	480	110	490	356	460	100	90	80	3.0	1.0	8650	17300	87
GE 320 AW	320	520	116	540	380	500	105	91	95	4.0	1.1	10600	21200	109
GE 340 AW	340	540	116	550	380	510	105	91	95	4.0	1.1	11800	23600	114
GE 360 AW	360	560	125	575	400	535	115	95	95	4.0	1.1	12700	25500	129

ROD ENDS SI..E(S),SI..ES 2RS

Maintenance required

- Rod body with right or left-hand female thread.
- It is made up of a radial spherical plain bearing GE..E(S) or GE..ES 2RS and rod body.
- Surface of rod body zinc plated, housing of SI..ES with a lubricating hole or grease nipple.



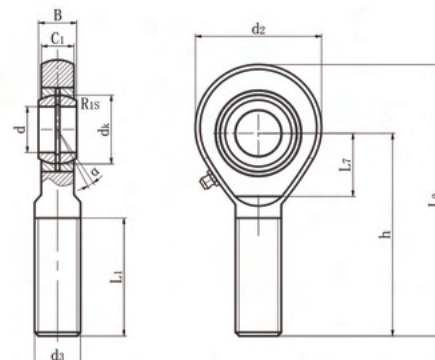
Part No.	Dimensions mm														Load ratings kN		Weight kg
	d	d ₃ 6H	B	C ₁	L ₃ min	W	d ₂	h ₁	L ₄	L ₅	d ₄	d ₅	d _k	α _°	dyn.C	stat.C ₀	
SI 6 E*	6	M6×1.0	6	4.4	11	11	21	30	40.5	5	10	13	10	13	3.40	8.15	0.021
SI 8 E*	8	M8×1.25	8	6	15	14	24	36	48	5	12.5	16	13	15	5.50	12.9	0.039
SI 10 E*	10	M10×1.5	9	7	20	17	29	43	57.5	6.5	15	19	16	12	7.15	17.6	0.061
SI 12 E*	12	M12×1.75	10	8	23	19	34	50	67	7	17.5	22	18	10	10.8	24.5	0.096
SI 15 ES	15	M14×2.0	12	10	30	22	40	61	81	8	21	26	22	8	17.0	36	0.18
SI 17 ES	17	M16×2.0	14	11	34	27	46	67	90	10	24	29	25	10	21.2	45	0.22
SI 20 ES	20	M20×1.5	16	13	40	32	53	77	103.5	10	27.5	34	29	9	30	60	0.35
SI 25 ES	25	M24×2.0	20	17	48	36	64	94	126	12	33.5	42	35.5	7	48	83	0.64
SI 30 ES	30	M30×2.0	22	19	56	41	73	110	146.5	15	40	50	40.7	6	62	110	0.93
SI 35 ES	35	M36×3.0	25	21	60	50	82	125	166	15	47	58	47	6	80	146	1.3
SI 40 ES	40	M39×3.0	28	23	65	55	92	142	188	18	52	65	53	7	100	180	2.0
SI 40-1ES	40	M42×3.0	28	23	65	55	92	142	188	18	52	65	53	7	100	180	1.96
SI 45 ES	45	M42×3.0	32	27	65	60	102	145	196	20	58	70	60	7	127	240	2.5
SI 45-1ES	45	M45×3.0	32	27	65	60	102	145	196	20	58	70	60	7	127	240	2.44
SI 50 ES	50	M45×3.0	35	30	68	65	112	160	216	20	62	75	66	6	156	290	3.5
SI 50-1ES	50	M52×3.0	35	30	69	65	112	160	216	20	62	75	66	6	156	290	3.4
SI 60 ES	60	M52×3.0	44	38	70	75	135	175	242.5	20	70	88	80	6	245	450	5.5
SI 60-1ES	60	M60×4.0	44	38	70	75	135	175	242.5	20	70	88	80	6	245	450	5.38
SI 70 ES	70	M56×4.0	49	42	80	85	160	200	280	20	80	98	92	6	315	610	8.6
SI 70-1ES	70	M72×4.0	49	42	80	85	160	200	280	20	80	98	92	6	315	610	8.42
SI 80 ES	80	M64×4.0	55	47	85	100	180	230	320	25	95	110	105	6	400	750	12
SI 80-1ES	80	M80×4.0	55	47	85	100	180	230	320	25	95	110	105	6	400	750	11.8

- For left-hand thread, please add suffix "L", e.g. SI 30 ES
- For bearings d ≥ 15, SI..ES 2RS also available, e.g. SI 25 ES 2RS.
- Lubricating hole or grease nipple isn't available for the sizes marked "**".

ROD ENDS SA..E(S),SA..ES 2RS

Maintenance required

- Rod body with right or left-hand male thread,
- It is made up of a radial spherical plain bearing GE..E(S) or GE..ES 2RS and rod body.
- Surface of rod body zinc plated, housing of SA..ES with a lubricating hole or grease nipple.



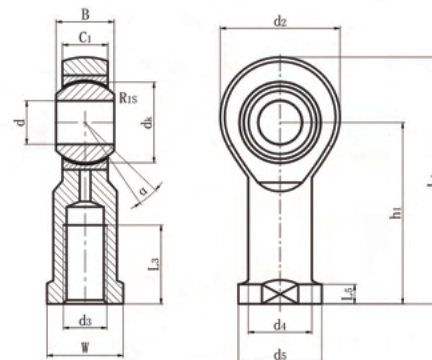
Part No.	Dimensions mm												Load ratings kN		Weight kg
	d	d ₃ 6g	B	C ₁	L ₁ min	d ₂	L ₇ min	h	L ₂	d _k	R _{1s}	α _°	dyn.C	stat.C ₀	
SA 6 E*	6	M6×1.0	6	4.4	18	21	12	36	46.5	10	0.3	13	3.4	8.15	0.017
SA 8 E*	8	M8×1.25	8	6	22	24	14	42	54	13	0.3	15	5.5	12.9	0.029
SA 10 E*	10	M10×1.5	9	7	26	29	15	48	62.5	16	0.3	12	8.15	17.6	0.051
SA 12 E*	12	M12×1.75	10	8	28	34	18	54	71	18	0.3	10	10.8	24.5	0.086
SA 15 ES	15	M14×2.0	12	10	34	40	20	63	83	22	0.3	8	17	36	0.14
SA 17 ES	17	M16×2.0	14	11	36	46	23	69	92	25	0.3	10	21.2	45	0.19
SA 20 ES	20	M20×1.5	16	13	43	53	27	78	104.5	29	0.6	9	30	60	0.31
SA 25 ES	25	M24×2.0	20	17	53	64	32	94	126	35.5	0.6	7	48	83	0.56
SA 30 ES	30	M30×2.0	22	19	65	73	37	110	146.5	40.7	0.6	6	62	110	0.89
SA 35 ES	35	M36×3.0	25	21	82	82	42	140	181	47	0.6	6	80	146	1.4
SA 40 ES	40	M39×3.0	28	23	86	92	48	150	196	53	0.6	7	100	180	1.8
SA 40-1ES	40	M42×3.0	28	23	86	92	48	150	196	53	0.6	7	100	180	1.85
SA 45 ES	45	M42×3.0	32	27	94	102	52	163	214	60	0.6	7	127	240	2.6
SA 45-1ES	45	M45×3.0	32	27	94	102	52	163	214	60	0.6	7	127	240	2.66
SA 50 ES	50	M45×3.0	35	30	107	112	60	185	241	66	0.6	6	156	290	3.4
SA 50-1ES	50	M52×3.0	35	30	107	112	60	185	241	66	0.6	6	156	290	3.5
SA 60 ES	60	M52×3.0	44	38	115	135	75	210	277.5	80	1.0	6	245	450	5.9
SA 60-1ES	60	M60×4.0	44	38	115	135	75	210	277.5	80	1.0	6	245	450	6.02
SA 70 ES	70	M56×4.0	49	42	125	160	87	235	315	92	1.0	6	315	610	8.2
SA70-1ES	70	M72×4.0	49	42	125	160	87	235	315	92	1.0	6	315	610	8.38
SA 80 ES	80	M64×4.0	55	47	140	180	100	270	360	105	1.0	6	400	750	12
SA 80-1ES	80	M80×4.0	55	47	140	180	100	270	360	105	1.0	6	400	750	12.2

For left-hand thread, please add suffix "L", e.g. SAL 30 ES. For bearings d ≥ 15 SA..ES 2RS also available e.g. SA 25 ES 2RS. Lubricating hole or grease nipple isn't available for the sizes marked "**".

ROD ENDS SI..T/K

Maintenance-free

- Rod body with right or left-hand female thread.
- It is made up of a maintenance-free radial spherical plain bearing G..PW and rod body.
- Surface of rod body zinc plated.



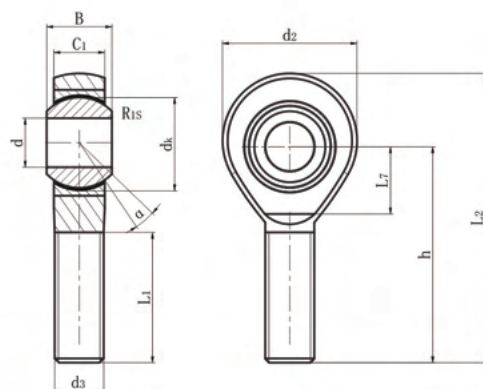
Part No.	Dimensions mm														Load ratings kN		Weight kg
	d	d ₃ 6H	B	C ₁	w	h ₁	d ₂	L ₄	L ₅	d ₄	d ₅	d _k	L ₃ min	α _°	dyn.C	stat.C ₀	
SI5 T/K	5	M5×0.8	8	6	9	27	18	36	4	9	11	11.11	10	13	5.70	6.00	0.016
SI6 T/K	6	M6×1.0	9	6.75	11	30	20	40	5	10	13	12.70	12	13	7.20	7.65	0.022
SI8 T/K	8	M8×1.25	12	9	14	36	24	48	5	12.5	16	15.875	16	14	11.6	12.9	0.047
SI10 T/K	10	M10×1.5	14	10.5	17	43	28	57	6.5	15	19	19.05	20	13	14.5	18	0.077
SI10-1 T/K	10	M10×1.25	14	10.5	17	43	28	57	6.5	15	19	19.05	20	13	14.5	18	0.077
SI12 T/K	12	M12×1.75	16	12	19	50	32	66	6.5	17.5	22	22.225	22	13	17	24	0.10
SI12-1 T/K	12	M12×1.25	16	12	19	50	32	66	6.5	17.5	22	22.225	22	13	17	24	0.10
SI14 T/K	14	M14×2.0	19	13.5	22	57	36	75	8	20	25	25.40	25	16	24	31	0.16
SI14-1 T/K	14	M14×1.5	19	13.5	22	57	36	75	8	20	25	25.40	25	16	24	31	0.16
SI16 T/K	16	M16×2.0	21	15	22	64	42	85	8	22	27	28.575	28	15	28.5	39	0.22
SI16-1 T/K	16	M16×1.5	21	15	22	64	42	85	8	22	27	28.575	28	15	28.5	39	0.22
SI18 T/K	18	M18×1.5	23	16.5	27	71	44	93	10	25	31	31.75	32	15	42.5	47.5	0.32
SI20 T/K	20	M20×1.5	25	18	30	77	50	102	10	27.5	34	34.925	33	14	42.5	57	0.42
SI22 T/K	22	M22×1.5	28	20	32	84	54	111	12	30	38	38.10	37	15	57	68	0.54
SI25 T/K	25	M24×2.0	31	22	36	94	60	124	12	33.5	42	42.86	42	15	68	85	0.72
SI28 T/K	28	M27×2.0	35	24	41	103	66	136	14	37	46	47.63	51	15	86	107	0.82
SI30 T/K	30	M30×2.0	37	25	41	110	70	145	15	40	50	50.8	51	17	88	114	1.1
SI30-1 T/K	30	M27×2.0	37	25	41	110	70	145	15	40	50	50.8	51	17	88	114	1.1
SI35 T/K	35	M36×2.0	43	28	50	125	81	165.5	17	46	58	57.15	56	16	-	-	1.6
SI40 T/K	40	M42×2.0	49	33	55	142	91	187.5	19	53	65	66.67	60	16	-	-	2.4
SI50 T/K	50	M48×2.0	60	45	65	160	117	218.5	23	65	75	82.5	65	12	-	-	5.0

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

ROD ENDS SA..T/K

Maintenance-free

- Rod body with right or left-hand male thread.
- It is made up of a maintenance-free radial spherical plain bearing G..PW and rod body.
- Surface of rod body zinc plated.



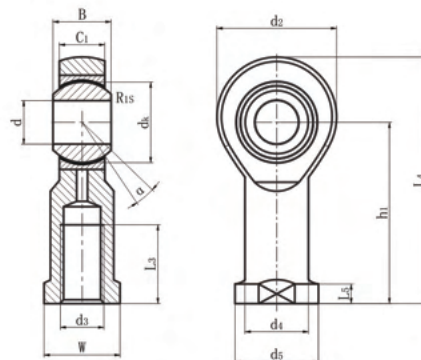
Part No.	Dimensions mm												Load ratings kN		Weight kg
	d	d ₃ 6g	B	C ₁	L ₁ min	d ₂	L ₇	h	L ₂	d _k	R _{1s}	α _°	dyn.C	stat.C ₀	
SA5T/K	5	M5×0.8	8	6	19	18	-	33	42	11.11	0.3	13	5.7	6.0	0.013
SA6T/K	6	M6×1.0	9	6.75	21	20	-	36	46	12.70	0.3	13	7.2	7.65	0.020
SA8T/K	8	M8×1.25	12	9	25	24	-	42	54	15.875	0.3	14	11.6	12.9	0.038
SA10T/K	10	M10×1.5	14	10.5	28	28	-	48	62	19.05	0.3	13	14.5	18	0.055
SA12T/K	12	M12×1.75	16	12	32	32	-	54	70	22.225	0.3	13	17	24	0.085
SA12-1T/K	12	M12×1.25	16	12	32	32	-	54	70	22.225	0.3	13	17	24	0.085
SA14T/K	14	M14×2.0	19	13.5	36	36	18	60	78	25.40	0.3	16	24	31	0.14
SA16T/K	16	M16×2.0	21	15	37	42	21	66	87	28.575	0.3	15	28.5	39	0.21
SA16-1T/K	16	M16×1.5	21	15	37	42	21	66	87	28.575	0.3	15	28.5	39	0.21
SA18T/K	18	M18×1.5	23	16.5	41	44	22	72	94	31.75	0.3	15	42.5	47.5	0.28
SA20T/K	20	M20×1.5	25	18	45	50	25	78	103	34.925	0.3	14	42.5	57	0.38
SA22T/K	22	M22×1.5	28	20	48	54	27	84	111	38.10	0.3	15	57	68	0.48
SA25T/K	25	M24×2.0	31	22	55	60	30	94	124	42.86	0.3	15	68	85	0.64
SA28T/K	28	M27×2.0	35	24	62	66	33	103	136	47.63	0.3	15	86	107	0.80
SA30T/K	30	M30×2.0	37	25	66	70	35	110	145	50.8	0.3	17	88	114	1.10
SA35T/K	35	M36×2.0	43	28	85	81	40	140	180.5	57.15	0.3	16	-	-	1.64
SA40T/K	40	M42×2.0	49	33	90	91	45	150	195.5	66.67	0.3	17	-	-	2.30
SA50T/K	50	M48×2.0	60	45	105	117	58	185	243.5	82.5	0.3	12	-	-	4.80

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

ROD ENDS SSI..T/K

Maintenance-free, stainless

-Design features as series SI..T/K, but in stainless steel.



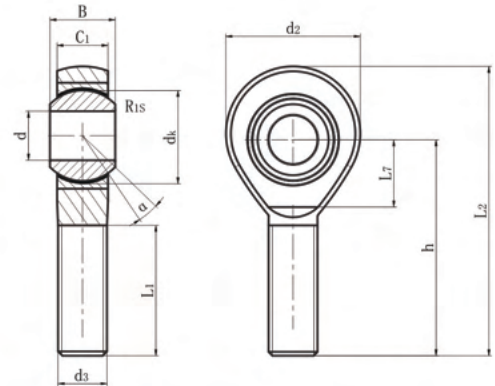
Part No.	Dimensions mm														Load ratings kN		Weight kg
	d	d ₃ 6H	B	C ₁	W	h ₁	d ₂	L ₄	L ₅	d ₄	d ₅	d _k	L ₃ min	α _°	dyn.C	stat.C ₀	
SSI 5T/K	5	M5×0.8	8	6	9	27	18	36	4	8.5	11	11.11	10	13	5.70	6.00	0.016
SSI 6T/K	6	M6×1.0	9	6.75	11	30	20	40	5	10	13	12.70	12	13	7.20	7.65	0.022
SSI 8T/K	8	M8×1.25	12	9	14	36	24	48	5	12.5	16	15.875	16	14	11.6	12.9	0.047
SSI 10T/K	10	M10×1.5	14	10.5	17	43	28	57	6.5	15	19	19.05	20	13	14.5	18	0.077
SSI 10-1T/K	10	M10×1.25	14	10.5	17	43	28	57	6.5	15	19	19.05	20	13	14.5	18	0.077
SSI 12T/K	12	M12×1.75	16	12	19	50	32	66	6.5	17.5	22	22.225	22	13	17	24	0.10
SSI 12-1T/K	12	M12×1.25	16	12	19	50	32	66	6.5	17.5	22	22.225	22	13	17	24	0.10
SSI 14T/K	14	M14×2.0	19	13.5	22	57	36	75	8	20	25	25.40	25	16	24	31	0.16
SSI 14-1T/K	14	M14×1.5	19	13.5	22	57	36	75	8	20	25	25.40	25	16	24	31	0.16
SSI 16T/K	16	M16×2.0	21	15	22	64	42	85	8	22	27	28.575	28	15	28.5	39	0.22
SSI 16-1T/K	16	M16×1.5	21	15	22	64	42	85	8	22	27	28.575	28	15	28.5	39	0.22
SSI 18T/K	18	M18×1.5	23	16.5	27	71	44	93	10	25	31	31.75	32	15	42.5	47.5	0.32
SSI 20T/K	20	M20×1.5	25	18	30	77	50	102	10	27.5	34	34.925	33	14	42.5	57	0.42
SSI 22T/K	22	M22×1.5	28	20	32	84	54	111	12	30	38	38.10	37	15	57	68	0.54
SSI 25T/K	25	M24×2.0	31	22	36	94	60	124	12	33.5	42	42.86	42	15	68	85	0.72
SSI 28T/K	28	M27×2.0	35	24	41	103	66	136	14	37	46	47.63	51	15	86	107	0.82
SSI 30T/K	30	M30×2.0	37	25	41	110	70	145	15	40	50	50.8	51	17	88	114	1.10
SSI 30-1T/K	30	M27×2.0	37	25	41	110	70	145	15	40	50	50.8	51	17	88	114	1.10

-For left-hand thread, please add suffix "L", e.g. SSIL 18 T/K.

ROD ENDS SSA..T/K

Maintenance-free, stainless

-Design features as series SA..T/K, but in stainless steel.



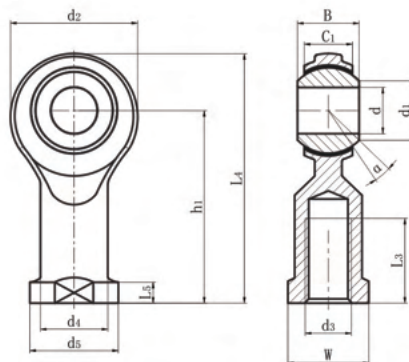
Part No.	Dimensions mm												Load ratings kN		Weight kg
	d	d ₃ 6g	B	C ₁	L ₁ min	d ₂	h	L ₇	L ₂	dk	R _{1s}	α _≈	dyn.C	stat.C ₀	
SSA 5T/K	5	M5×0.8	8	6	19	18	33	-	42	11.11	0.3	13	5.70	6.00	0.013
SSA 6T/K	6	M6×1.0	9	6.75	21	20	36	-	46	12.70	0.3	13	7.20	7.65	0.020
SSA 8T/K	8	M8×1.25	12	9	25	24	42	-	54	15.875	0.3	14	11.6	12.9	0.038
SSA 10T/K	10	M10×1.5	14	10.5	28	28	48	-	62	19.05	0.3	13	14.5	18	0.055
SSA 12T/K	12	M12×1.75	16	12	32	32	54	-	70	22.225	0.3	13	17.0	24	0.085
SSA 12-1T/K	12	M12×1.25	16	12	32	32	54	-	70	22.225	0.3	13	17.0	24	0.085
SSA 14T/K	14	M14×2.0	19	13.5	36	36	60	18	78	25.40	0.3	16	24.0	31	0.14
SSA 16T/K	16	M16×2.0	21	15	37	42	66	21	87	28.575	0.3	15	28.5	39	0.21
SSA 16-1T/K	16	M16×1.5	21	15	37	42	66	21	87	28.575	0.3	15	28.5	39	0.21
SSA 18T/K	18	M18×1.5	23	16.5	41	44	72	22	94	31.75	0.3	15	42.5	47.5	0.28
SSA 20T/K	20	M20×1.5	25	18	45	50	78	25	103	34.925	0.3	14	42.5	57	0.38
SSA 22T/K	22	M22×1.5	28	20	48	54	84	27	111	38.10	0.3	15	57	68	0.48
SSA 25T/K	25	M24×2.0	31	22	55	60	94	30	124	42.86	0.3	15	68	85	0.64
SSA 28T/K	28	M27×2.0	35	24	62	66	103	33	136	47.63	0.3	15	86	107	0.80
SSA 30T/K	30	M30×2.0	37	25	66	70	110	35	145	50.80	0.3	17	88	114	1.10

-For left-hand thread, please add suffix "L" e.g. SSAL 18 T/K.

ROD ENDS SI..PK

Maintenance-free

- Rod body with right or left-hand female thread.
- Rod body pressed around inner ring.
- Outer race lined with PTFE composite material.
- Surface of rod body zinc plated.



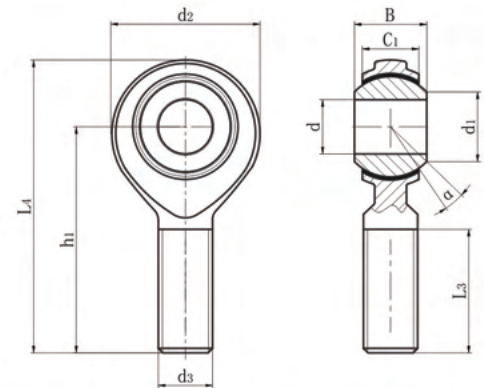
Part No.	Dimensions mm													Load ratings kN		Weight kg
	d	d ₃ 6H	B	C ₁	d ₂	h ₁	L ₄	L ₃ min	d ₄	d ₅	W	L ₅	α _°	dyn.C	stat.C ₀	
SI 5 PK	5	M5×0.8	8	6	19	27	36.5	10	9	11	9	4	12	5.70	6	0.018
SI 6 PK	6	M6×1.0	9	6.7	21	30	40.5	12	10	13	11	5	11	7.20	7.65	0.026
SI 8 PK	8	M8×1.25	12	9	25	36	48.5	16	12.5	16	14	5	12	11.6	12.9	0.047
SI 10 PK	10	M10×1.5	14	11	29	43	57.5	20	15	19	17	6.5	12	14.5	18	0.077
SI 10-1 PK	10	M10×1.25	14	11	29	43	57.5	20	15	19	17	6.5	12	14.5	18	0.077
SI 12 PK	12	M12×1.75	16	12	33	50	66.5	22	17.5	22	19	6.5	13	17	24	0.10
SI 12-1 PK	12	M12×1.25	16	12	33	50	66.5	22	17.5	22	19	6.5	13	17	24	0.10
SI 14 PK	14	M14×2.0	19	14	37	57	75.5	25	20	25	22	8	14	24	31	0.16
SI 16 PK	16	M16×2.0	21	15	43	64	85.5	28	22	27	22	8	14	28.5	39	0.22
SI 16-1 PK	16	M16×1.5	21	15	43	64	85.5	28	22	27	22	8	14	28.5	39	0.22
SI 18 PK	18	M18×1.5	23	17	47	71	94.5	32	25	31	27	10	14	42.5	47.5	0.32
SI 20 PK	20	M20×1.5	25	18	51	77	102.5	33	27.5	34	30	10	14	42.5	57	0.42
SI 22 PK	22	M22×1.5	28	20	55	84	111.5	37	30	38	32	12	15	57	68	0.54
SI 25 PK	25	M24×2.0	31	22	61	94	124.5	42	33.5	42	36	12	15	68	85	0.72

-For left-hand thread, please add suffix "L", e.g. SIL 18 PK.

ROD ENDS SA..PK

Maintenance-free

- Rod body with right or left-hand male thread.
- Rod body pressed around inner ring.
- Outer race lined with PTFE composite material.
- Surface of rod body zinc plated.

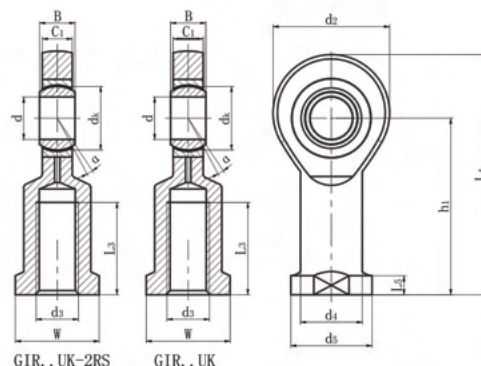


Part No.	Dimensions mm									Load ratings kN		Weight kg
	d	d_3 6g	B	C_1	d_2	h_1	L_4	L_3 min	$\alpha \approx$ °	dyn.C	stat.C ₀	
SA 5 PK	5	M5×0.8	8	6	19	33	42.5	20	12	5.70	6	0.014
SA 6 PK	6	M6×1.0	9	6.7	21	36	46.5	22	11	7.20	7.65	0.020
SA 8 PK	8	M8×1.25	12	9	25	42	54.6	25	12	11.6	12.9	0.038
SA 10 PK	10	M10×1.5	14	11	29	48	62.5	29	12	14.5	18	0.055
SA 12 PK	12	M12×1.75	16	12	33	54	70.5	33	13	17	24	0.085
SA 14 PK	14	M14×2.0	19	14	37	60	78.5	36	14	24	31	0.14
SA 16 PK	16	M16×2.0	21	15	43	66	87.5	40	14	28.5	39	0.21
SA 18 PK	18	M18×1.5	23	17	47	72	95.5	44	14	42.5	47.5	0.28
SA 20 PK	20	M20×1.5	25	18	51	78	103.5	47	14	42.5	57	0.38
SA 22 PK	22	M22×1.5	28	20	55	84	111.5	50	15	57	68	0.48
SA 25 PK	25	M24×2.0	31	22	61	94	124.5	57	15	68	85	0.64

-For left-hand thread, please add suffix "L", e.g. SAL 18 PK.

ROD ENDS GIR..UK,GIR..UK 2RS Maintenance-free

- Rod body with right or left-hand female thread.
- It is made up of a maintenance-free radial spherical plain bearing GE..UK or GE..UK 2RS and rod body.
- Surface of rod body zinc plated.



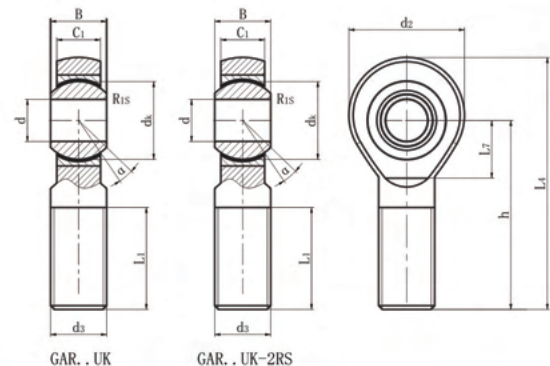
Part No.	Dimensions mm														Load ratings kN		Weight kg
	d	d ₃ 6H	B	C ₁	d ₂	L ₃ min	W	d ₄	d ₅	L ₅	h ₁	L ₄	d _k	α _°	dyn.C	stat.C ₀	
GIR 6 UK	6	M6×1.0	6	4.4	21	11	11	10	13	5	30	40.5	10	13	3.60	8.15	0.021
GIR 8 UK	8	M8×1.25	8	6.0	24	15	14	12.5	16	5	36	48	13	15	5.85	12.9	0.039
GIR 10 UK	10	M10×1.5	9	7.0	29	20	17	15	19	6.5	43	57.5	16	12	8.65	17.6	0.061
GIR 12 UK	12	M12×1.75	10	8.0	34	23	19	17.5	22	6.5	50	67	18	11	11.4	24.5	0.096
GIR 15 UK	15	M14×2.0	12	10	40	30	22	21	26	8	61	81	22	8	17.6	36	0.18
GIR 17 UK(2RS)	17	M16×2.0	14	11	46	34	27	24	30	10	67	90	25	10	22.4	45	0.22
GIR 20 UK(2RS)	20	M20×1.5	16	13	53	40	32	27.5	35	10	77	103.5	29	9	31.5	60	0.35
GIR 25 UK(2RS)	25	M24×2.0	20	17	64	48	36	33.5	42	12	94	126	35.5	7	51.0	83	0.64
GIR 30 UK(2RS)	30	M30×2.0	22	19	73	56	41	40	50	15	110	146.5	40.7	6	66.5	110	0.93
GIR 35 UK 2RS	35	M36×3.0	25	21	82	60	50	47	58	15	125	166	47	6	112	146	1.3
GIR 40 UK 2RS	40	M39×3.0	28	23	92	65	55	52	65	18	142	188	53	7	140	180	2.0
GIR 40-1 UK 2RS	40	M42×3.0	28	23	92	65	55	52	65	18	142	188	53	7	140	180	1.96
GIR 45 UK 2RS	45	M42×3.0	32	27	102	65	60	58	70	20	145	196	60	7	180	240	2.5
GIR 45-1 UK 2RS	45	M45×3.0	32	27	102	65	60	58	70	20	145	196	60	7	180	240	2.44
GIR 50 UK 2RS	50	M45×3.0	35	30	112	68	65	62	75	20	160	216	66	6	220	290	3.5
GIR 50-1 UK 2RS	50	M52×3.0	35	30	112	68	65	62	75	20	160	216	66	6	220	290	3.4
GIR 60 UK 2RS	60	M52×3.0	44	38	135	70	75	70	88	20	175	242.5	80	6	345	450	5.5
GIR 60-1 UK 2RS	60	M60×4.0	44	38	135	70	75	70	88	20	175	242.5	80	6	345	450	5.38
GIR 70 UKRS	70	M56×4.0	49	42	160	80	85	80	98	20	200	280	92	6	440	610	8.6
GIR 70-1 UK 2RS	70	M72×4.0	49	42	160	80	85	80	98	20	200	280	92	6	440	610	8.42
GIR 80 UK 2RS	80	M64×4.0	55	47	180	85	100	95	110	25	230	320	105	6	570	750	12
GIR 80-1 UK 2RS	80	M80×4.0	55	47	180	85	100	95	110	25	230	320	105	6	570	750	11.8

-For left-hand thread, please add suffix "L", e.g. GIRL 10 UK.

ROD ENDS GAR..UK,GAR..UK 2RS

Maintenance-free

- Rod body with right or left-hand male thread.
- It is made up of a maintenance-free radial spherical plain bearing GE..UK or GE..UK 2RS and rod body.
- Surface of rod body zinc plated.



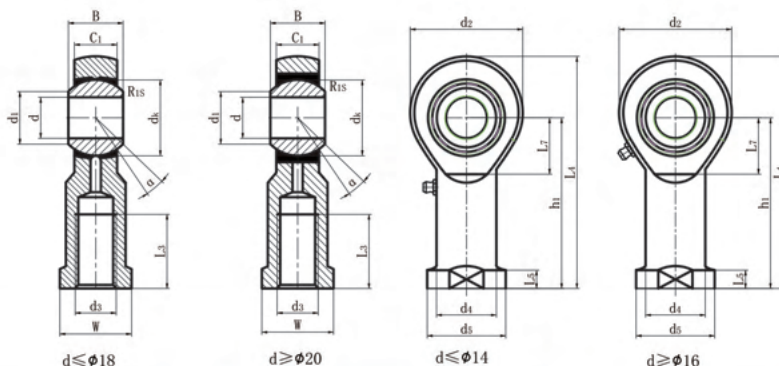
Part No.	Dimensions mm												Load ratings kN		Weight kg
	d	d ₃ 6g	B	C ₁	d ₂	L ₂	h	L ₇	L ₁ min	d _k	R _{1s}	α [°]	dyn.C	stat.C ₀	
GAR 6 UK	6	M6×1.0	6	4.4	21	46.5	36	12	18	10	0.3	13	3.60	8.15	0.017
GAR 8 UK	8	M8×1.25	8	6	24	54	42	14	22	13	0.3	15	5.85	12.9	0.029
GAR 10 UK	10	M10×1.5	9	7	29	62.5	48	15	26	16	0.3	12	8.65	17.6	0.051
GAR 12 UK	12	M12×1.75	10	8	34	71	54	18	28	18	0.3	11	11.4	24.5	0.086
GAR 15 UK	15	M14×2.0	12	10	40	83	63	20	34	22	0.3	8	17.6	36	0.14
GAR 17 UK(2RS)	17	M16×2.0	14	11	46	92	69	23	36	25	0.3	10	22.4	45	0.19
GAR 20 UK(2RS)	20	M20×1.5	16	13	53	104.5	78	27	43	29	0.6	9	31.5	60	0.31
GAR 25 UK(2RS)	25	M24×2.0	20	17	64	126	94	32	53	35.5	0.6	7	51.0	83	0.56
GAR 30 UK(2RS)	30	M30×2.0	22	19	73	146.5	110	37	65	40.7	0.6	6	66.5	110	0.89
GAR 35 UK 2RS	35	M36×3.0	25	21	82	181	140	42	82	47	0.6	6	112	146	1.4
GAR 40 UK 2RS	40	M39×3.0	28	23	92	196	150	48	86	53	0.6	7	140	180	1.8
GAR 40-1 UK 2RS	40	M42×3.0	28	23	92	196	150	48	86	53	0.6	7	140	180	1.85
GAR 45 UK 2RS	45	M42×3.0	32	27	102	214	163	52	94	60	0.6	7	180	240	2.6
GAR 45-1 UK 2RS	45	M45×3.0	32	27	102	214	163	52	94	60	0.6	7	180	240	2.66
GAR 50 UK 2RS	50	M45×3.0	35	30	112	241	185	60	107	66	0.6	6	220	290	3.4
GAR 50-1 UK 2RS	50	M52×3.0	35	30	112	241	185	60	107	66	0.6	6	220	290	3.5
GAR 60 UK 2RS	60	M52×3.0	44	38	135	277.5	210	75	115	80	1.0	6	345	450	5.9
GAR 60-1 UK 2RS	60	M60×4.0	44	38	135	277.5	210	75	115	80	1.0	6	345	450	6.02
GAR 70 UK 2RS	70	M56×4.0	49	42	160	315	235	87	125	92	1.0	6	440	610	8.2
GAR 70-1 UK 2RS	70	M72×4.0	49	42	160	315	235	87	125	92	1.0	6	440	610	8.38
GAR 80 UK 2RS	80	M64×4.0	55	47	180	360	270	100	140	105	1.0	6	570	750	12
GAR 80-1 UK 2RS	80	M80×4.0	55	47	180	360	270	100	140	105	1.0	6	570	750	12.2

-For left-hand thread, please add suffix "L", e.g. GARL 10 UK.

ROD ENDS PHS..

Maintenance required

- Rod body with right or left-hand female thread.
- Outer race lined with bronze liner.
- Surface of rod body zinc plated, rod body with a lubricating hole or grease nipple.



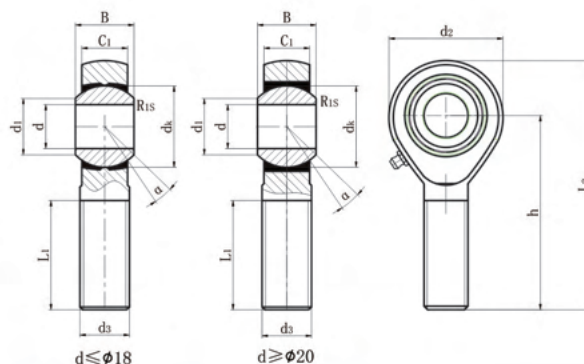
Part No.	Dimensions mm														Load ratings kN		Weight kg
	d	d ₃ 6H	B	C ₁ max	W	L ₃ min	d ₂	L ₄	h ₁	L ₅	d ₄	d ₅	d _k	α _°	dyn.C	stat.C ₀	
PHS 4	4	M4×0.7	7	5.25	8	8	14	31	24	4	8	9.5	9.525	13	3.0	5.0	0.009
PHS 5	5	M5×0.8	8	6	9	10	16	35	27	4	8.5	11	11.112	13	3.25	5.70	0.016
PHS 6	6	M6×1.0	9	6.75	11	12	18	39	30	5	10	13	12.70	13	4.3	7.20	0.022
PHS 8	8	M8×1.25	12	9	14	16	22	47	36	5	12.5	16	15.88	14	7.2	11.6	0.047
PHS 10	10	M10×1.5	14	10.5	17	20	26	56	43	6.5	15	19	19.05	13	10	14.5	0.077
PHS 10-1	10	M10×1.25	14	10.5	17	20	26	56	43	6.5	15	19	19.05	13	10	14.5	0.077
PHS 12	12	M12×1.75	16	12	19	22	30	65	50	6.5	17.5	22	22.23	13	13.4	17	0.10
PHS 12-1	12	M12×1.25	16	12	19	22	30	65	50	6.5	17.5	22	22.23	13	13.4	17	0.10
PHS 14	14	M14×2.0	19	13.5	22	25	34	74	57	8	20	25	25.4	16	17	24	0.16
PHS 14-1	14	M14×1.5	19	13.5	22	25	34	74	57	8	20	25	25.4	16	17	24	0.16
PHS 16	16	M16×2.0	21	15	22	28	38	83	64	8	22	27	28.58	15	21.6	28.5	0.22
PHS 16-1	16	M16×1.5	21	15	22	28	38	83	64	8	22	27	28.58	15	21.6	28.5	0.22
PHS 18	18	M18×1.5	23	16.5	27	32	42	92	71	10	25	31	31.75	15	26	42.5	0.32
PHS 20	18	M20×1.5	25	18	30	33	50	100	77	10	27.5	34	34.93	14	31.5	42.5	0.42
PHS 22	20	M22×1.5	28	20	32	37	54	109	84	12	30	38	38.1	15	38	57	0.54
PHS 25	22	M24×2.0	31	22	36	42	60	124	94	12	33.5	42	42.86	15	47.5	68	0.73
PHS 28	25	M27×2.0	35	25	41	48	66	136	103	12	37	46	47.63	15	58	75	0.98
PHS 30	28	M30×2.0	37	25	41	51	70	145	110	15	40	50	50.8	17	64	88	1.10
PHS 30-1	30	M27×2.0	37	25	41	51	70	145	110	15	40	50	50.8	17	64	88	1.10

-For left-hand thread, please add suffix "L", e.g. PHS L 8.

ROD ENDS POS..

Maintenance required

- Rod body with right or left-hand male thread.
- Outer race lined with bronze liner.
- Surface of rod body zinc plated, rod body with a lubricating hole or grease nipple.

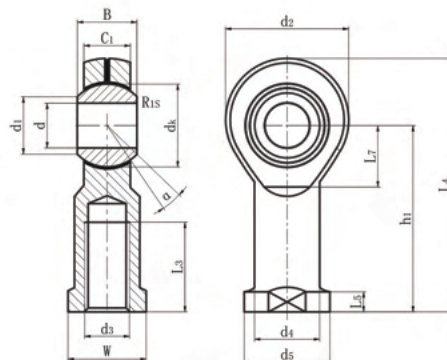


Part No.	Dimensions mm											Load ratings kN		Weight kg
	d	d ₃ 6H	B	C ₁ max	L ₁ min	d ₂	h	L ₂	d _k	R _{1s}	α _°	dyn.C	stat.C ₀	
POS 5	5	M5×0.8	8	6	20	16	33	41	11.11	0.3	13	3.25	5.70	0.013
POS 6	6	M6×1.0	9	6.75	22	18	36	45	12.70	0.3	13	4.30	7.20	0.020
POS 8	8	M8×1.25	12	9	25	22	42	53	15.875	0.3	14	7.20	11.6	0.030
POS 10	10	M10×1.5	14	10.5	29	26	48	61	19.05	0.3	14	10	14.5	0.055
POS 12	12	M12×1.75	16	12	33	30	54	69	22.225	0.3	13	13.4	17	0.085
POS 12-1	12	M12×1.25	16	12	33	30	54	69	22.225	0.3	13	13.4	17	0.085
POS 14	14	M14×2.0	19	13.5	36	34	60	77	25.40	0.3	16	17	24	0.14
POS 16	16	M16×2.0	21	15	40	40	66	85	28.575	0.3	15	21.6	28.5	0.21
POS 16-1	16	M16×1.5	21	15	40	40	66	85	28.575	0.3	15	21.6	28.5	0.21
POS 18	18	M18×1.5	23	16.5	44	44	72	93	31.75	0.3	15	26	42.5	0.28
POS 20	20	M20×1.5	25	18	47	50	78	101	34.925	0.3	15	31.5	52.5	0.38
POS 22	22	M22×1.5	28	20	51	54	84	109	38.10	0.3	15	38	57	0.48
POS 25	25	M24×2.0	31	22	57	60	94	124	42.86	0.3	15	47.5	68	0.64
POS 28	28	M27×2.0	35	25	62	66	103	136	47.63	0.3	15	58	75.5	0.96
POS 30	30	M30×2.0	37	25	66	70	110	145	50.8	0.3	17	64	88	1.10

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

ROD ENDS SI..ZK Maintenance-free

- Rod body with right or left-hand female thread.
- With moulded Nylon/Teflon/Fiberglass compound insert.
- Surface of rod body zinc plated.



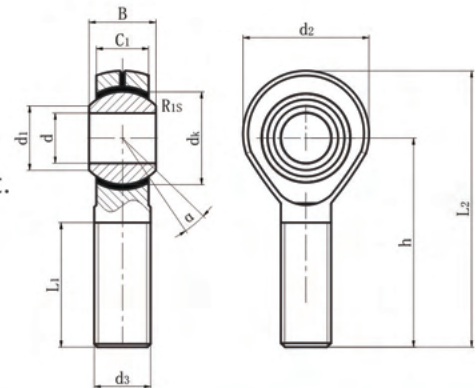
Part No.	Dimensions mm															Load ratings kN		Weight kg
	d	d ₃ 6H	B	C ₁	W	L ₃ min	d ₂	L ₄	h	L ₅	d ₄	d ₅	d _k	d ₁	α _°	dyn.C	stat.C ₀	
SI 4 ZK	4	M4×0.7	7	5.25	8	8	14	31	24	4	8	9.5	9.525	6.5	13	3.0	5.0	0.009
SI 5 ZK	5	M5×0.8	8	6	9	10	16	35	27	4	8.5	11	11.11	7.70	13	3.25	5.70	0.016
SI 6 ZK	6	M6×1.0	9	6.75	11	12	18	39	30	5	10	13	12.70	8.96	13	4.3	7.20	0.022
SI 8 ZK	8	M8×1.25	12	9	14	16	22	47	36	5	12.5	16	15.875	10.4	14	7.2	11.6	0.047
SI 10 ZK	10	M10×1.5	14	10.5	17	20	26	56	43	6.5	15	19	19.05	12.9	13	10	14.5	0.077
SI 10-1 ZK	10	M10×1.25	14	10.5	17	20	26	56	43	6.5	15	19	19.05	12.9	13	10	14.5	0.077
SI 12 ZK	12	M12×1.75	16	12	19	22	30	65	50	6.5	17.5	22	22.225	15.4	13	13.4	17	0.10
SI 12-1 ZK	12	M12×1.25	16	12	19	22	30	65	50	6.5	17.5	22	22.225	15.4	13	13.4	17	0.10
SI 14 ZK	14	M14×2.0	19	13.5	22	25	34	74	57	8	20	25	25.40	16.9	16	17	24	0.16
SI 14-1 ZK	14	M14×1.5	19	13.5	22	25	34	74	57	8	20	25	25.40	16.9	16	17	24	0.16
SI 16 ZK	16	M16×2.0	21	15	22	28	40	84	64	8	22	27	28.575	19.4	15	21.6	28.5	0.22
SI 16-1 ZK	16	M16×1.5	21	15	22	28	40	84	64	8	22	27	28.575	19.4	15	21.6	28.5	0.22
SI 18 ZK	18	M18×1.5	23	16.5	27	32	44	93	71	10	25	31	31.75	21.9	15	26	42.5	0.32
SI 20 ZK	20	M20×1.5	25	18	30	33	50	102	77	10	27.5	34	34.925	24.4	14	31.5	42.5	0.42
SI 22 ZK	22	M22×1.5	28	20	32	37	54	111	84	12	30	38	38.10	25.8	15	38	57	0.54
SI 25 ZK	25	M24×2.0	31	22	36	42	60	124	94	12	33.5	42	42.86	29.6	15	47.5	68	0.73
SI 28 ZK	28	M27×2.0	35	24	41	48	66	136	103	14	37	46	47.63	32.3	15	58	75	0.98
SI 30 ZK	30	M30×2.0	37	25	41	51	70	145	110	15	40	50	50.8	34.8	17	64	88	1.10
SI 30-1 ZK	30	M27×2.0	37	25	41	51	70	145	110	15	40	50	50.8	34.8	17	64	88	1.10

-For left-hand thread, please add suffix "L", e.g. SI L 8 ZK.

ROD ENDS SA..ZK

Maintenance-free

- Rod body with right or left-hand male thread.
- With moulded Nylon/Teflon/Fiberglass compound insert.
- Surface of rod body zinc plated.



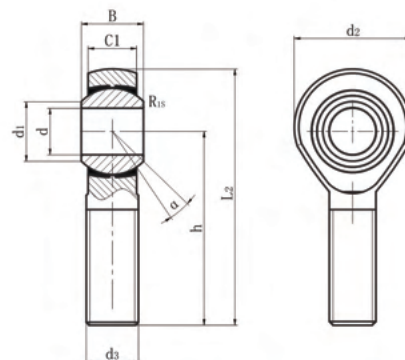
Part No.	Dimensions mm												Load ratings kN		Weight kg
	d	d ₃ 6g	B	C ₁	L ₁ min	d ₂	h	L ₂	dk	R _{1s}	d ₁	α _°	dyn.C	stat.C ₀	
SA 5 ZK	5	M5×0.8	8	6	20	16	33	41	11.11	0.3	7.70	13	3.25	5.70	0.013
SA 6 ZK	6	M6×1.0	9	6.75	22	18	36	45	12.70	0.3	8.96	13	4.30	7.20	0.020
SA 8 ZK	8	M8×1.25	12	9	25	22	42	53	15.875	0.3	10.4	14	7.20	11.6	0.030
SA 10 ZK	10	M10×1.5	14	10.5	29	26	48	61	19.05	0.3	12.9	13	10	14.5	0.055
SA 12 ZK	12	M12×1.75	16	12	33	30	54	69	22.225	0.3	15.4	13	13.4	17	0.085
SA 12-1 ZK	12	M12×1.25	16	12	33	30	54	69	22.225	0.3	15.4	13	13.4	17	0.085
SA 14 ZK	14	M14×2.0	19	13.5	36	34	60	77	25.40	0.3	16.9	16	17	24	0.14
SA 16 ZK	16	M16×2.0	21	15	40	40	66	86	28.575	0.3	19.4	15	21.6	28.5	0.21
SA 16-1 ZK	16	M16×1.5	21	15	40	40	66	86	28.575	0.3	19.4	15	21.6	28.5	0.21
SA 18 ZK	18	M18×1.5	23	16.5	44	44	72	94	31.75	0.3	21.9	15	26	42.5	0.28
SA 20 ZK	20	M20×1.5	25	18	47	50	78	103	34.925	0.3	24.4	14	31.5	52.5	0.38
SA 22 ZK	22	M22×1.5	28	20	51	54	84	111	38.10	0.3	25.8	15	38	57	0.48
SA 25 ZK	25	M24×2.0	31	22	57	60	94	124	42.86	0.3	29.6	15	47.5	68	0.64
SA 28 ZK	28	M27×2.0	35	24	62	66	103	136	47.63	0.3	32.3	15	58	75.5	0.96
SA 30 ZK	30	M30×2.0	37	25	66	70	110	145	50.8	0.3	34.8	17	64	88	1.10

-For left-hand thread, please add suffix "L", e.g. SAL 8 ZK.

ROD ENDS SAZP..S

Maintenance required, inch dimensions

- Rod body with right or left-hand male thread.
- Outer race lined with bronze liner.
- Surface of rod body zinc plated.
- In inch dimension series.



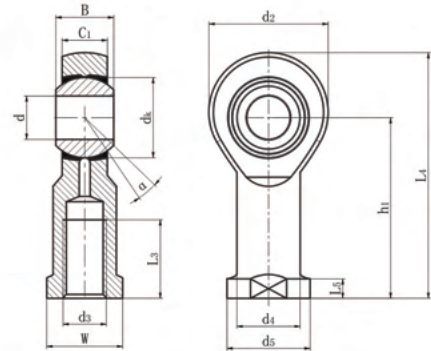
Part No.	Dimensions mm											Load ratings kN		Weight kg
	d	d ₃ 3A	B	C ₁	d ₁	R _{1s}	d ₂	h	L ₁ min	L ₂	α _°	dyn.C	stat.C ₀	
SAZP 4 S	4.826	10-32	7.925	6.35	7.79	0.3	15.88	31.75	19.05	39.7	10	3.4	3.8	0.013
SAZP 6 S	6.35	1/4-28	9.525	7.14	8.40	0.3	19.05	39.67	25.40	49.2	13	4.5	6.6	0.022
SAZP 7 S	7.938	5/16-24	11.1	8.74	11.35	0.3	22.23	47.63	31.75	58.72	10	6.9	8.4	0.037
SAZP 9 S	9.525	3/8-24	12.70	10.31	14.20	0.6	25.40	49.23	31.75	61.93	9	9.4	10	0.055
SAZP 11 S	11.113	7/16-20	14.275	11.10	12.62	0.6	28.58	53.98	34.95	68.28	11	11	13	0.078
SAZP 12 S	12.70	1/2-20	15.875	12.70	15.55	0.6	33.32	61.93	38.10	78.59	9	15	19	0.12
SAZP 15 S	15.875	5/8-18	19.05	14.27	21.30	0.6	38.10	66.68	41.28	85.73	11	20	21	0.18
SAZP 19 S	19.05	3/4-16	22.225	17.45	22.67	0.6	44.45	73.03	44.45	95.25	10	29	29	0.29
SAZP 25 S	25.40	5/4-12	34.93	25.40	36.89	0.6	69.85	104.78	53.98	139.7	14	60	101	1.10

-For left-hand thread, please add suffix "L", e.g. SALZP 15 S.

ROD ENDS SIZP..S

Maintenance required, inch dimensions

- Rod body with right or left-hand female thread.
- Outer race lined with bronze liner.
- Surface of rod body zinc plated.
- In inch dimension series.



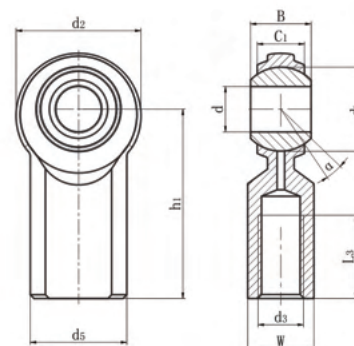
Part No.	Dimensions mm														Load ratings kN		Weight kg
	d	d ₃ 2B	B	C ₁	d _k	d ₂	h ₁	L ₃ min	L ₄	L ₅	d ₄	d ₅	W	α _°	dyn.C	stat.C ₀	
SIZP 4 S	4.826	10-32	7.92	6.35	11.11	15.88	26.97	14.27	34.91	4.75	7.54	10.31	7.92	10	3.4	4.6	0.015
SIZP 6 S	6.35	1/4-28	9.53	7.14	12.70	19.05	33.32	19.05	42.85	4.75	9.15	11.91	9.53	13	4.5	7.7	0.025
SIZP 7 S	7.938	5/16-24	11.1	8.74	15.875	22.23	34.93	19.05	46.04	4.75	10.72	12.70	11.1	10	6.9	8.4	0.036
SIZP 9 S	9.525	3/8-24	12.7	10.31	19.05	25.40	41.28	23.80	53.98	6.35	13.89	17.45	14.27	9	9.4	10	0.061
SIZP 11 S	11.113	7/16-20	14.27	11.10	19.05	28.58	46.02	26.97	60.31	6.35	15.49	19.05	15.88	11	11	13	0.081
SIZP 12 S	12.70	1/2-20	15.88	12.70	22.225	33.32	53.98	30.15	70.64	6.35	18.67	22.23	19.05	9	15	19	0.133
SIZP 15 S	15.875	5/8-18	19.05	14.27	28.575	38.10	63.50	38.10	82.55	7.92	21.84	25.40	22.23	11	20	21	0.190
SIZP 19 S	19.05	3/4-16	22.23	17.45	31.75	44.45	73.03	44.45	95.25	7.92	25.02	28.58	25.4	10	29	28	0.285
SIZP 25 S	25.40	5/4-12	34.93	25.40	50.80	69.85	104.78	53.98	139.7	11.1	37.72	44.45	38.1	14	60	101	1.00

-For left-hand thread, please add suffix "L", e.g. SILZP 15 S.

ROD ENDS CF..,CF..S

Maintenance required,inch dimensions

- Rod body with right or left-hand female thread.
- Rod body pressed around inner ring.
- Surface of rod body zinc plated.
- In inch dimension series.



Part No.	Dimensions mm											Load ratings kN	Weight kg
	d	B	C ₁	h ₁	d ₂	d ₅	W	d _k	L ₃ min	d ₃ 2B	α _°		
CF 3*	4.826	7.92	5.94	26.97	15.88	10.31	7.92	11.10	12.70	10-32	10	9.247	0.018
CF 4*	6.350	9.53	6.35	33.32	19.05	11.91	9.53	12.70	17.45	1/4-28	13.5	14.269	0.023
CF 5*	7.938	11.1	7.92	34.93	22.23	12.7	11.1	15.88	17.45	5/16-24	11	17.009	0.036
CF 6	9.525	12.7	9.12	41.28	25.40	17.45	14.27	18.26	20.62	3/8-24	11	22.627	0.059
CF 7	11.113	14.27	10.31	46.02	28.58	19.05	15.88	20.62	23.80	7/16-20	10.5	28.400	0.082
CF 8	12.70	15.88	11.50	53.98	33.32	22.23	19.05	23.80	26.97	1/2-20	10	40.459	0.132
CF 10	15.875	19.05	12.29	63.05	38.10	25.40	22.23	28.58	34.93	5/8-18	13	43.203	0.195
CF 12	19.05	22.23	15.06	73.03	44.45	28.58	25.40	33.32	39.67	3/4-16	12	63.193	0.295

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

-Lubricating hole or grease nipple isn 't available for the sizes marked "**"

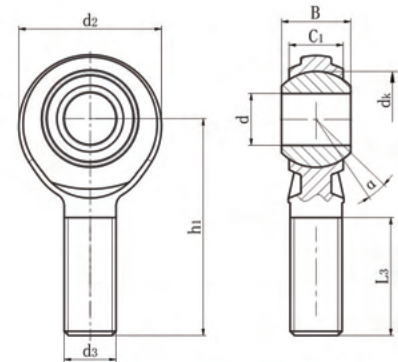
When grease nipple is required for other sizes,please use the sign CF..S.

-Load ratings only to rod ends without grease nipple.

ROD ENDS CM..,CM..S

Maintenance required, inch dimensions

- Rod body with right or left-hand male thread.
- Rod body pressed around inner ring.
- Surface of rod body zinc plated.
- In inch dimension series.



Part No.	Dimensions mm									Load ratings kN	Weight kg
	d	B	C ₁	h ₁	d ₂	d _k	L ₃ min	d ₃ 3A	α°		
CM 3*	4.826	7.92	5.94	31.75	15.88	11.1	19.05	10-32	10	5.355	0.014
CM4*	6.350	9.53	6.35	39.67	19.05	12.7	25.40	1/4-28	13.5	9.839	0.018
CM 5*	7.938	11.1	7.92	47.63	22.23	15.88	31.75	5/16-24	11	15.910	0.032
CM 6	9.525	12.7	9.12	49.23	25.40	18.26	31.75	3/8-24	11	22.542	0.050
CM 7	11.113	14.27	10.31	53.98	28.58	20.62	34.93	7/16-20	10.5	28.223	0.068
CM 8	12.70	15.88	11.50	61.93	33.32	23.80	38.10	1/2-20	10	37.087	0.109
CM 10	15.875	19.05	12.29	66.68	38.10	28.58	41.28	5/8-18	13	43.203	0.163
CM 12	19.05	22.23	15.06	73.03	44.45	33.32	44.45	3/4-16	12	63.193	0.259

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

-Lubricating hole or grease nipple isn't available for the sizes marked "**"

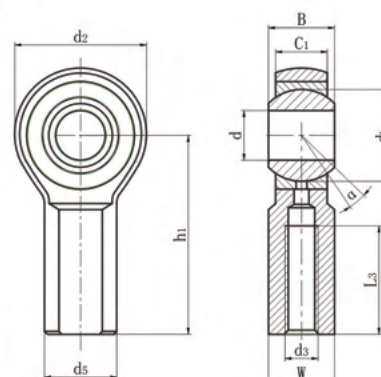
When grease nipple is required for other sizes, please use the sign CM..S.

-Load ratings apply only to rod ends without grease nipple.

ROD ENDS JF.,JF..S

Maintenance required,inch dimensions

- Rod body with right or left-hand female thread.
- Outer race lined with bronze liner.
- Surface of rod body zinc plated.
- In inch dimension series.



Part No.	Dimensions mm											Load ratings kN	Weight kg
	d	B	C ₁	h ₁	d ₂	d ₅	W	d _k	L ₃ min	d ₃ 2B	α°		
JF 2*	3.175	6.35	4.75	20.62	12.70	7.92	6.35	7.92	11.10	6-32	8	5.344	0.009
JF 3*	4.826	7.92	6.35	26.97	15.88	10.31	7.92	11.1	14.27	10-32	6.5	6.805	0.017
JF 4*	6.35	9.53	7.14	33.32	19.05	11.91	9.53	12.7	19.05	1/4-28	8	11.297	0.027
JF 5*	7.938	11.1	8.74	34.94	22.23	12.70	11.1	15.88	19.05	5/16-24	7	13.934	0.042
JF 6	9.525	12.7	10.31	41.28	25.40	17.45	14.27	18.26	23.80	3/8-24	6	17.416	0.069
JF 7	11.113	14.27	11.10	46.02	28.58	19.05	15.88	20.62	26.97	7/16-20	7	18.759	0.090
JF 8	12.70	15.88	12.70	53.98	33.32	22.23	19.05	23.80	30.15	1/2-20	6	29.624	0.149
JF 10	15.875	19.05	14.27	63.50	38.10	25.4	22.23	28.58	38.10	5/8-18	8	32.752	0.216
JF 12	19.05	22.23	17.45	73.03	44.45	28.58	25.40	33.32	44.45	3/4-16	7	51.237	0.328
JF 14	22.225	22.23	19.43	85.73	50.80	33.02	28.58	33.32	47.63	7/8-14	3.5	82.185	0.328
JF 14-1	22.225	22.23	17.45	88.90	50.80	33.32	30.15	33.32	47.63	7/8-14	6	101.601	0.467
JF 16	25.4	34.93	25.4	104.78	69.85	41.28	38.1	47.63	53.98	1 1/4-12	8.5	193.67	0.467
JF 16-1	25.4	34.93	25.4	104.78	69.85	41.28	38.1	47.63	53.98	1-14	8.5	193.67	0.964
JF 16-2	25.4	34.93	25.4	104.78	69.85	41.28	38.1	47.63	53.98	1-12	8.5	193.67	1.093

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

-Lubricating hole or grease nipple isn't available for the sizes marked "**"

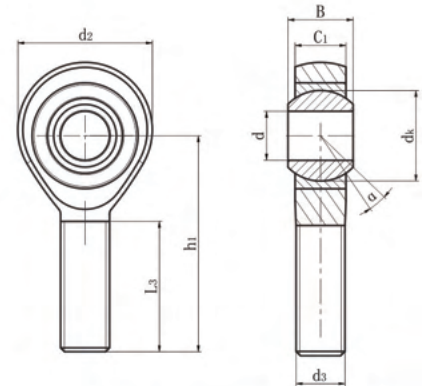
When grease nipple is required for other sizes,please use the sign JF..S.

-Load ratings only to rod ends without grease nipple.

ROD ENDS JM..S

Maintenance required, inch dimensions

- Rod body with right or left-hand male thread.
- Outer race lined with bronze liner.
- Surface of rod body zinc plated.
- In inch dimension series.



Part No.	Dimensions mm									Load ratings kN	Weight kg
	d	B	C ₁	h ₁	d ₂	d _k	L ₃ min	d ₃ 3A	α°		
JM 2*	3.175	6.35	4.75	23.80	12.70	7.92	14.27	6-32	8	2.236	0.006
JM 3*	4.826	7.92	6.35	31.75	15.88	11.1	19.05	10-32	6.5	5.197	0.013
JM 4*	6.350	9.53	7.14	39.67	19.05	12.7	25.40	1/4-28	8	9.60	0.020
JM 5*	7.938	11.1	8.74	47.63	22.23	15.88	31.75	5/16-24	7	12.385	0.033
JM 6	9.525	12.7	10.31	49.23	25.40	18.26	31.75	3/8-24	6	17.416	0.051
JM 7	11.113	14.27	11.10	53.68	28.58	20.62	34.93	7/16-20	7	18.759	0.073
JM 8	12.70	15.88	12.70	61.93	33.32	23.80	38.10	1/2-20	6	29.624	0.113
JM 10	15.875	19.05	14.27	66.68	38.10	28.58	41.28	5/8-18	8	32.752	0.173
JM 12	19.05	22.23	17.45	73.03	44.45	33.32	44.45	3/4-16	7	51.237	0.273
JM 14	22.225	22.23	19.43	85.73	50.80	33.32	50.80	7/8-14	3.5	82.185	0.411
JM16	25.4	34.93	25.4	104.78	69.85	47.63	53.98	1 1/4-12	8.5	193.67	1.091
JM 16-1	25.4	34.93	25.4	104.78	69.85	47.63	53.98	1-14	8.5	193.67	0.965
JM 16-2	25.4	34.93	25.4	104.78	69.85	47.63	53.98	1-12	8.5	193.67	0.965

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

-Lubricating hole or grease nipple isn't available for the sizes marked "**"

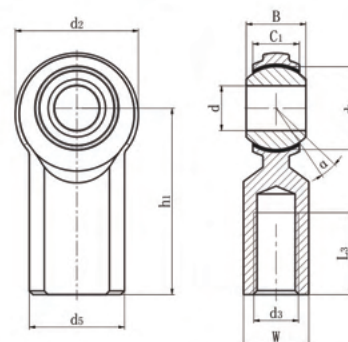
When grease nipple is required for other sizes, please use the sign JM..S.

-Load ratings only to rod ends without grease nipple.

ROD ENDS CF..T

Maintenance required, inch dimensions

- Rod body with right or left-hand female thread.
- Rod body pressed around inner ring.
- Surface of rod body zinc plated,
- Outer race lined with PTFE fabric.



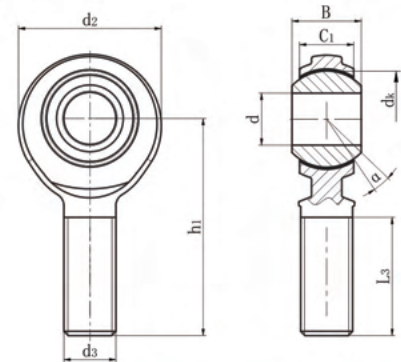
Part No.	Dimensions mm											Load ratings kN	Weight kg
	d	B	C ₁	h ₁	d ₂	d ₅	W	d _k	L ₃ min	d ₃ 3A	α [°]		
CF 3T	4.826	7.92	5.94	26.97	15.875	10.31	7.92	11.10	12.70	10-32	10	8.02	0.018
CF 4T	6.35	9.53	6.35	33.32	19.05	11.89	9.53	12.70	17.45	1/4-28	13.5	16.082	0.023
CF 5T	7.938	11.1	7.92	34.93	22.23	12.70	11.10	15.88	17.45	5/16-24	11	28.693	0.036
CF 6T	9.525	12.7	9.12	41.28	25.40	17.45	14.27	18.26	20.62	3/8-24	11	38.371	0.059
CF 7T	11.113	14.27	10.31	46.02	28.58	19.05	15.88	20.62	23.80	7/16-20	10.5	41.676	0.082
CF 8T	12.70	15.88	11.50	53.98	33.32	22.23	19.05	23.80	26.97	1/2-20	10	67.299	0.132
CF 10T	15.875	19.05	12.29	63.50	38.10	25.40	22.23	28.58	34.93	5/8-18	13	75.271	0.195
CF 12T	19.05	22.23	15.06	73.03	44.45	28.58	25.40	33.32	39.67	3/4-16	12	113.642	0.295

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

ROD ENDS CM..T

Maintenance-free, inch dimensions

- Rod body with right or left-hand male thread.
- Rod body pressed around inner ring.
- Surface of rod body zinc plated.
- Outer race lined with PTFE fabric.



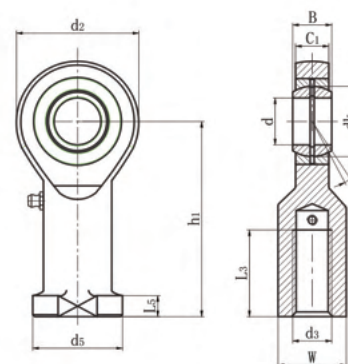
Part No.	Dimensions mm									Load ratings kN	Weight kg
	d	B	C ₁	h ₁	d ₂	d _k	L ₃ min	d ₃ 3A	α _°		
CM 3T	4.826	7.92	5.94	31.75	15.875	11.10	19.05	10-32	10	8.02	0.014
CM 4T	6.350	9.53	6.35	39.67	19.05	12.70	25.4	1/4-28	13.5	16.082	0.018
CM 5T	7.938	11.1	7.92	47.63	22.23	15.88	31.75	5/16-24	11	28.693	0.032
CM 6T	9.525	12.7	9.12	49.23	25.40	18.26	31.75	3/8-24	11	38.371	0.050
CM 7T	11.113	14.27	10.31	53.98	28.58	20.62	34.93	7/16-20	10.5	41.676	0.068
CM 8T	12.70	15.88	11.50	61.93	33.32	23.80	38.10	1/2-20	10	67.299	0.109
CM 10T	15.875	19.05	12.29	66.68	38.10	28.58	41.28	5/8-18	13	75.271	0.163
CM 12T	19.05	22.23	15.06	73.03	44.45	33.32	44.45	3/4-16	12	113.642	0.259

-For left-hand thread, please add suffix "L", e.g. CML 5 T.

ROD ENDS KF..

Maintenance required, inch dimensions, heavy duty.

- Rod body with right or left-hand female thread.
- It is made up of a radial spherical plain bearing GEZ..ES or GEZ..ES 2RS and rod body.
- Surface of rod body zinc plated
- In inch dimension series.



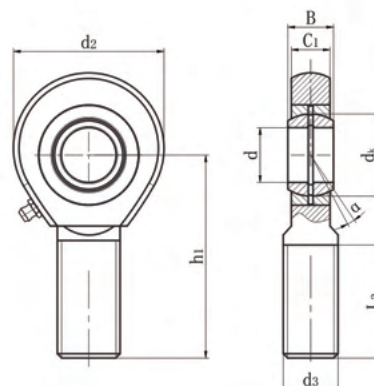
Part No.	Dimensions mm												Load ratings kN	Weight kg
	d	B	C ₁	h ₁	d ₂	d ₅	W	L ₅	d _k	L ₃ min	d ₃ 2B	α _°		
KF 20-1	31.75	27.762	23.80	104.8	69.85	41.28	38.10	12.70	45.59	53.98	1 1/4-12	3.5	197.91	0.964
KF 24-1	38.10	33.325	28.575	136.5	88.90	57.15	50.80	22.23	54.74	66.68	1 1/2-12	3.2	288.06	2.95
KF 32-1	50.80	44.450	38.10	203.2	127	79.38	69.85	52.37	73.03	101.6	2-12	3.0	682.82	6.80

-For left-hand thread, please add suffix "L", e.g. KFL 24-1.

ROD ENDS KM..

Maintenance required, inch dimensions, heavy duty

- Rod body with right or left-hand male thread.
- It is made up of a radial spherical plain bearing GEZ..ES or GEZ..ES 2RS and rod body.
- Surface of rod body zinc plated, rod body with a grease nipple.
- In inch dimension series.



Part No.	Dimensions mm									Load ratings kN	Weight kg
	d	B	C ₁	h ₁	d ₂	d _k	L ₃ min	d ₃ 3A	α _°		
KM 20-1	31.75	27.762	23.80	104.8	69.85	45.59	53.98	1 1/4-12	3.5	197.91	1.09
KM 24-1	38.10	33.325	28.575	136.5	88.90	54.74	76.20	1 1/2-12	3.2	288.06	2.15
KM 32-1	50.80	44.450	38.10	203.2	127	73.03	114.3	2-12	3.0	682.82	6.46

For left-hand thread, please add suffix "L", e.g. KML 24-1.

INTERCHANGE TABLE

	SWEDEN	GERMANY	JAPAN
QCB	SKF	FAG	IKO
GE..E	GE..E	GE..E	GE..E
GE..ES	GE..ES	GE..ES	GE..ES
GE..ES 2RS	GE..ES 2RS	GE..ES 2RS	GE..ES 2RS
GEG..E	GEH..E	GEH..E	GE..G
GEG..ES	GEH..ES	GEH..ES	GE..GS
GEG..ES 2RS	GEH..ES 2RS	GEH..ES 2RS	GE..GS 2RS
GE..LO	GEG..ES		
GE..HO 2RS	GEM..ES 2RS		
GE..UK	GE..C	GE..C	GE..EC
GE..UK 2RS	GE..TE 2RS	GE..UA 2RS	
GE..FW	GEH..C	GEH..C	
GE..FW 2RS	GEH..TE 2RS		
GEBK..S			PB..
GEBJ..S			
SGE..UK	GE..TGR		
SGE..FW	GEH..TGR		
G..PB			
G..PW			
S..PB			
S..PW			
SI..E	SI..E	SI..E	
SI..ES	SIA..ES	SI..ES	

	SWEDEN	GERMANY	JAPAN
QCB	SKF	FAG	IKO
SI..ES 2RS	SIA..ES 2RS	SI..ES 2RS	
SA..E	SA..E	SA..E	
SA..ES	SAA..ES	SA..ES	
SA..ES 2RS	SAA..ES 2RS	SA..ES 2RS	
SIL..E	SIL..E	SIL..E	
SIL..ES	SIAL..ES	SIL..ES	
SIL..ES 2RS	SIAL..ES 2RS	SIL..ES 2RS	
SAL..E	SAL..E	SAL..E	
SAL..ES	SALA..ES	SAL..ES	
SAL..ES 2RS	SALA..ES 2RS	SAL..ES 2RS	
SI..T/K	SIKB..F		PHS..EC
SA..T/K	SAKB..F		POS..EC
SIL..T/K	SILKB..F		PHSL..EC
SAL..T/K	SALKB..F		POSL..EC
SI..PK			
SA..PK			
SIL..PK			
SAL..PK			
PHS..	SIKAC..M		PHS..
POS..	SAKAC..M		POS..
PHSL..	SILKAC..M		PHSL..
POSL..	SALKAC..M		POSL..

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