

Plain Bearings Rod Ends

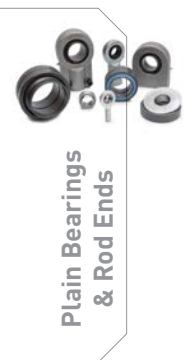




General index


 Plain Bearings
& Rod Ends

General Technical Information				Pages
Technical information of bearings				4
General Product Information				Pages
Plain Bearings		GE.. DO, GE.. DO 2RS Series		8
		GE.. FO, GE.. FO 2RS Series		9
		GE.. HO 2RS, GE.. LO Series		10
		GEZ..ES, GEZ..ES 2RS Series		11
		GE.. UK, GE.. UK 2RS Series		12
		GE..FW Series		13
		GE.. SX Series		14
		GE.. SW Series		15
		GE.. AX Series		16
		GE.. AW Series		17
Rod Ends		GIR.. DO, GIR.. DO 2RS Series		20
		GIR.. UK, GIR.. UK 2RS Series		21
		GAR.. DO, GAR.. DO 2RS Series		22
		GAR.. UK, GAR.. UK 2RS Series		23
		GIHR.. DO, GIHR K.. DO Series		24
		GIHN K.. LO Series		25
		GK.. DO Series		26
		GF.. DO Series		27
		GIHO K.. DO Series		28
		PHS.., PHS..L Series		29
		POS.., POS..L Series		30
MANUFACTURERS INTERCHANGE				31



Technical information

RADIAL INTERNAL CLEARANCE

Standard clearance C0

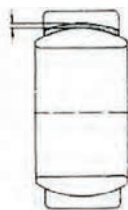
Tight assembly or high temperature assembly recommended tolerance C3

C2 reduced internal clearance.

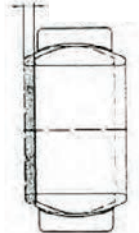
Axial displacement depends on plain bearing geometry and is directly related to radial play.

Dimension GE...DO/GE...DO-2RS GE...HO-2RS GEZ... GE...LO GE...FO/GE...FO-2RS		Radial internal clearance Clase for radial play		
	mm	C2 mm	C0 (normal) mm	C3 mm
6	6			
8	8	0.008	0.032	0.068
10	10	0.032	0.068	0.104
12	12			
15	15	0.010	0.040	0.082
16	16	0.040	0.082	0.124
17	17			
20	20			
25	25	0.012	0.050	0.100
30	30	0.050	0.100	0.150
32	32			
35	35			
40	40	0.015	0.060	0.120
45	45	0.060	0.120	0.180
50	50			
60	60			
63	63	0.018	0.072	0.142
70	70	0.072	0.142	0.212
80	80			
90	90			
100	100	0.018	0.085	0.165
110	110	0.085	0.165	0.245
120	120			
140	140			
160	160			
180	180	0.018	0.100	0.192
200	200	0.100	0.192	0.284
220	220			
240	240			
260	260	0.018	0.110	0.214
280	280	0.110	0.214	0.318
300	300			

Radial play



Axial play



RADIAL PLAY		
C2	C0	C3
Reduced play	Nomal	Increased play

Technical information

Plain bearings

Shaft	Contact Surface	
Loose Fit Tight Fit	Steel/Steel(Bronze)	Steel/PTFE
	f6,h6,h7 m6,n6	g6,h6 k6

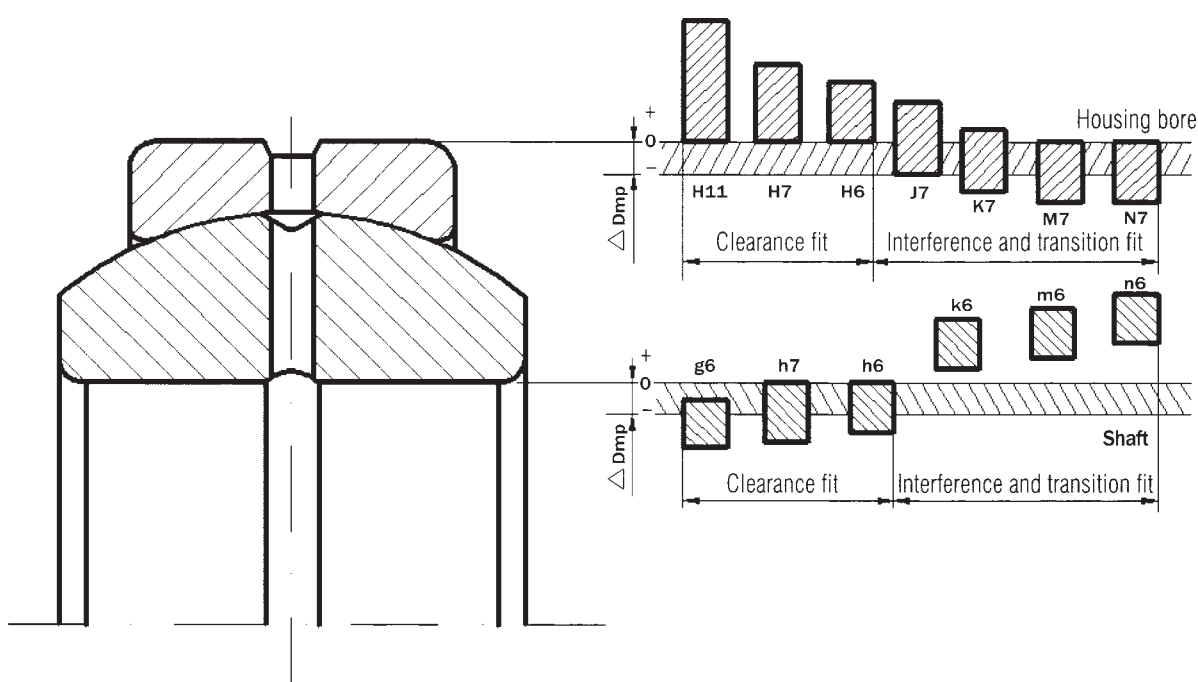


Plain Bearings
& Rod Ends

Housing	Contact Surface	
Loose Fit Tight Fit	Steel/Steel(Bronze)	Steel/PTFE
	H6,H7 J7,M7	H7 K7

Rod ends

Shaft	n6,p6
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Lubrication

Recommended EP lithium GREASE multi-purpose extreme pressure, with additive 3% MoS₂.

An excessive lubrication can damage and reduce life expectancy.

Maintenance free plain bearings must not be lubricated, that is way they are not provided with greasing device.

Temperature

Allowable temperature without sealing

Contact Surface	Temperature (°C)
Steel / Steel	-50 ~ 200
Steel / PTFE	-30 ~ 150
Steel / Bronze	-50 ~ 200

Sealed plain bearings maximum temperature +120°C



Plain



PLAIN BEARINGS TABLE OF CONTENTS



Index	Bearing series	Bore diameter range(mm)	Sliding contact surfaces	Relubrication needed	Integral seals	Operating temperature (°C)	Design features	Pag.
	GE..DO	5-12	Steel/Steel	No	No	-50 ~ 150	Outer ring with single split in axial direction, both outer and inner rings are phosphate treated.	8
	GE..DO	15-300	Steel/Steel	Yes	No	-50 ~ 150	As GE..DO, can be relubricated via annular groove and lubricating holes.	8
	GE..DO 2RS	15-300	Steel/Steel	Yes	Yes	-30 ~ 130	As GE..DO, with lip seals in both sides.	8
	GE..FO	6-12	Steel/Steel	No	No	-50 ~ 150	As GE..DO, with wider inner ring and larger outside diameter.	9
	GE..FO	15-280	Steel/Steel	Yes	No	-50 ~ 150	As GE..DO, with wider inner ring and larger outside diameter.	9
	GE..FO 2RS	15-280	Steel/Steel	Yes	Yes	-30 ~ 130	As GE..FO, with lip seals in both sides.	9
	GE..LO	12-320	Steel/Steel	Yes	No	-50 ~ 150	As GE..DO, with cylindrical extensions at both sides of the inner ring.	10
	GE..HO 2RS	17-80	Steel/Steel	Yes	Yes	-30 ~ 130	As GE..DO 2RS, with cylindrical extensions at both sides of the inner ring.	10
	GEZ..ES	12.7-152.40	Steel/Steel	Yes	No	-50 ~ 150	As GE..DO, in inch dimensions.	11
	GEZ..ES 2RS	19.05-152.40	Steel/Steel	Yes	Yes	-30 ~ 130	As GEZ..ES, with lip seal in both sides.	11

Bearings

PLAIN BEARINGS TABLE OF CONTENTS

Index	Bearing series	Bore diameter range(mm)	Sliding contact surfaces	Relubrication needed	Integral seals	Operating temperature (°C)	Design features	Pag.
	GE..UK	6-30	Steel/PTFE	No	No	-50 ~ 150	Outer ring pressed around inner ring, outer race lined with PTFE, inner ring surface hard chrome plated.	12
	GE..UK 2RS	15-300	Steel/PTFE fabric	No	Yes	-30 ~ 130	Outer ring with single split in axial direction, outer race bonded with PTFE fabric, inner ring surface hard chrome plated.	12
	GE..FW	6-30	Steel/PTFE	No	No	-50 ~ 150	As GE..UK, with wider inner ring and larger outside diameter.	13
	GE..SX	25-200	Steel/Steel	Yes	No	-50 ~ 150	Outer ring with lubricating groove and holes, both outer and inner rings are phosphate treated.	14
	GE..SW	25-200	Steel/PTFE fabric	No	No	-50 ~ 150	Outer race bonded with PTFE fabric, outer ring is phosphate treated, inner ring surface chrome plated.	15
	GE..AX	10-200	Steel/Steel	Yes	No	-50 ~ 150	Outer ring with lubricating groove and holes, both outer and inner rings are phosphate treated,	16
	GE..AW	10-360	Steel/PTFE fabric	No	No	-50 ~ 150	Outer race bonded with PTFE fabric, outer ring is phosphate treated, inner ring surface hard chrome plated.	17



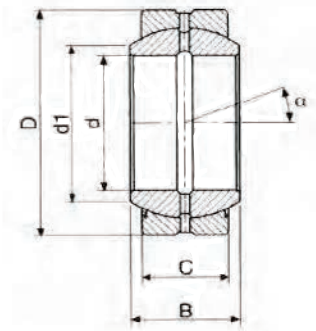
Plain Bearings



GE.. DO, GE.. DO 2RS Series

SLIDING SURFACE STEEL/STEEL

RADIAL PLAIN BEARINGS, REQUIRING MAINTENANCE.
SERIES GE..DO, GE..DO 2RS



GE...DO
GE...DO-2RS

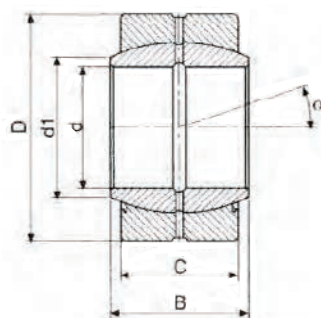


Nominal dimensions					α°	Load ratings		Bearing numbers		Mass kg (approx.)
d	D	B	C	$d_{1 \min}$		dynamic KN	static KN			
mm										
4	12	5	3	6	16	2	10	GE 4 DO(1)		0.0033
5	14	6	4	7	13	3.4	17	GE 5 DO(1)		0.0038
6	14	6	4	8	13	3.4	17	GE 6 DO(1)		0.0042
8	16	8	5	10	15	5.5	27	GE 8 DO(1)		0.0075
10	19	9	6	13	12	8.1	40	GE 10 DO(1)		0.011
12	22	10	7	15	10	10	54	GE 12 DO(1)		0.015
15	26	12	9	18	8	17	85	GE 15 DO	GE 15 DO 2RS	0.027
17	30	14	10	20	10	21	106	GE 17 DO	GE 17 DO 2RS	0.041
20	35	16	12	24	9	30	146	GE 20 DO	GE 20 DO 2RS	0.066
25	42	20	16	29	7	48	240	GE 25 DO	GE 25 DO 2RS	0.119
30	47	22	18	34	6	62	310	GE 30 DO	GE 30 DO 2RS	0.153
35	55	25	20	39	6	80	400	GE 35 DO	GE 35 DO 2RS	0.233
40	62	28	22	45	7	100	500	GE 40 DO	GE 40 DO 2RS	0.306
45	68	32	25	50	7	127	640	GE 45 DO	GE 45 DO 2RS	0.427
50	75	35	28	55	6	156	780	GE 50 DO	GE 50 DO 2RS	0.546
60	90	44	36	66	6	245	1220	GE 60 DO	GE 60 DO 2RS	1.045
70	105	49	40	77	6	315	1560	GE 70 DO	GE 70 DO 2RS	1.55
80	120	55	45	88	6	400	2000	GE 80 DO	GE 80 DO 2RS	2.31
90	130	60	50	98	5	490	2450	GE 90 DO	GE 90 DO 2RS	2.75
100	150	70	55	109	7	610	3050	GE 100 DO	GE 100 DO 2RS	4.45
110	160	70	55	120	6	655	3250	GE 110 DO	GE 110 DO 2RS	4.82
120	180	85	70	130	6	950	4750	GE 120 DO	GE 120 DO 2RS	8.05
140	210	90	70	150	7	1080	5400	GE 140 DO	GE 140 DO 2RS	11.02
160	230	105	80	170	8	1370	6800	GE 160 DO	GE 160 DO 2RS	14.01
180	260	105	80	192	6	1530	7650	GE 180 DO	GE 180 DO 2RS	18.65
200	290	130	100	212	7	2120	10600	GE 200 DO	GE 200 DO 2RS	28.03
220	320	135	100	238	8	2320	11600	GE 220 DO	GE 220 DO 2RS	35.91
240	340	140	100	265	8	2550	12700	GE 240 DO	GE 240 DO 2RS	39.91
260	370	150	110	285	7	3050	15300	GE 260 DO	GE 260 DO 2RS	51.84
280	400	155	120	310	6	3550	18000	GE 280 DO	GE 280 DO 2RS	65.36
300	430	165	120	330	7	3800	19000	GE 300 DO	GE 300 DO 2RS	78.07

(1) No relubrication facility

GE.. FO, GE.. FO 2RS Series

SLIDING SURFACE STEEL/STEEL

 RADIAL PLAIN BEARINGS, REQUIRING MAINTENANCE.
 SERIES GE..FO, GE..FO 2RS

 GE...FO
 GE...FO-2RS


Plain Bearings

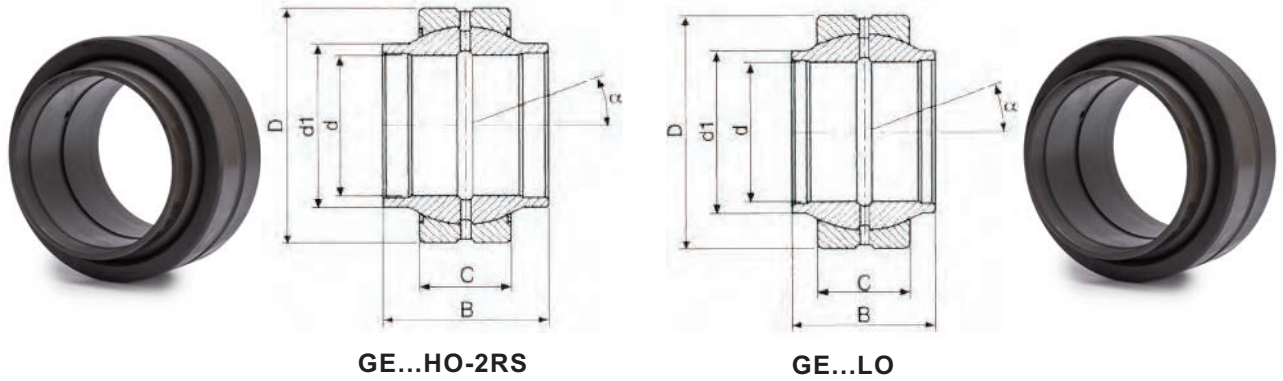
Nominal dimensions					α°	Load ratings		Bearing numbers		Mass kg (approx.)
d	D	B	C	$d1_{min}$		dynamic KN	static KN			
mm										
4	14	7	4	7	20	3.4	17	GE 4 FO(1)		0.0045
5	16	9	5	8	21	5.5	27	GE 5 FO(1)		0.0066
6	16	9	5	9	21	5.5	27	GE 6 FO(1)		0.0081
8	19	11	6	11	21	8.1	40	GE 8 FO(1)		0.014
10	22	12	7	13	18	10	54	GE 10 FO(1)		0.021
12	26	15	9	16	18	17	85	GE 12 FO(1)		0.033
15	30	16	10	19	16	21	106	GE 15 FO	GE 15 FO 2RS	0.049
17	35	20	12	21	19	30	145	GE 17 FO	GE 17 FO 2RS	0.083
20	42	25	16	24	17	48	240	GE 20 FO	GE 20 FO 2RS	0.015
25	47	28	18	29	17	62	310	GE 25 FO	GE 25 FO 2RS	0.203
30	55	32	20	34	17	80	400	GE 30 FO	GE 30 FO 2RS	0.304
35	62	35	22	39	16	100	500	GE 35 FO	GE 35 FO 2RS	0.408
40	68	40	25	44	17	127	640	GE 40 FO	GE 40 FO 2RS	0.542
45	75	43	28	50	15	156	780	GE 45 FO	GE 45 FO 2RS	0.713
50	90	56	36	57	17	245	1220	GE 50 FO	GE 50 FO 2RS	1.44
60	105	63	40	67	17	315	1560	GE 60 FO	GE 60 FO 2RS	1.60
70	120	70	45	77	16	400	2000	GE 70 FO	GE 70 FO 2RS	3.01
80	130	75	50	87	14	490	2450	GE 80 FO	GE 80 FO 2RS	3.61
90	150	85	55	98	15	610	3050	GE 90 FO	GE 90 FO 2RS	5.22
100	160	85	55	110	14	655	3250	GE 100 FO	GE 100 FO 2RS	6.05
110	180	100	70	122	12	950	4750	GE 110 FO	GE 110 FO 2RS	9.68
120	210	115	70	132	16	1080	5400	GE 120 FO	GE 120 FO 2RS	14.72
140	230	130	80	151	16	1370	6800	GE 140 FO	GE 140 FO 2RS	19.01
160	260	135	80	176	16	1530	7650	GE 160 FO	GE 160 FO 2RS	20.02
180	290	155	100	196	14	2120	10600	GE 180 FO	GE 180 FO 2RS	32.21
200	320	165	100	220	15	2320	11600	GE 200 FO	GE 200 FO 2RS	45.28
220	340	175	100	243	16	2550	12700	GE 220 FO	GE 220 FO 2RS	51.12
240	370	190	110	263	15	3050	15300	GE 240 FO	GE 240 FO 2RS	65.12
260	400	205	120	285	15	3550	18000	GE 260 FO	GE 260 FO 2RS	82.44
280	430	210	120	310	15	3800	19000	GE 280 FO	GE 280 FO 2RS	97.21

(1) No relubrication facility

GE.. HO 2RS, GE.. LO Series

SLIDING SURFACE STEEL/STEEL

RADIAL PLAIN BEARINGS, REQUIRING MAINTENANCE.
SERIES GE..HO 2RS, GE..LO



Nominal dimensions					α°	Load ratings		Bearing numbers	Mass
mm						dynamic	static		kg
d	D	B	C	$d1_{min}$		C	C_o		(approx.)
20	35	24	12	24	6	30	146	GE 20 HO 2RS	0.073
25	42	29	16	29	4	48	240	GE 25 HO 2RS	0.13
30	47	30	18	34	4	62	310	GE 30 HO 2RS	0.17
35	55	35	20	40	4	80	400	GE 35 HO 2RS	0.25
40	62	38	22	45	4	100	500	GE 40 HO 2RS	0.35
45	68	40	25	52	4	127	640	GE 45 HO 2RS	0.49
50	75	43	28	57	4	156	780	GE 50 HO 2RS	0.6
60	90	54	36	68	3	245	1220	GE 60 HO 2RS	1.15
70	105	65	40	78	4	315	1560	GE 70 HO 2RS	1.65
80	120	74	45	90	4	400	2000	GE 80 HO 2RS	2.5

GE..LO

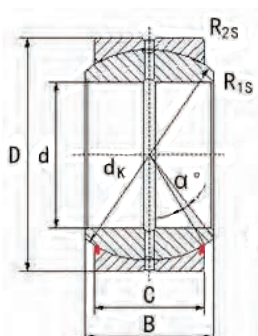
Nominal dimensions					α°	Load ratings		Bearing numbers	Mass
mm						dynamic	static		kg
d	D	B	C	$d1_{min}$		C	C_o		(approx.)
12	22	12	7	15.5	4	10	54	GE 12 LO(1)	0.022
16	28	16	9	20	4	17	88	GE 16 LO	0.035
20	35	20	12	25	4	30	146	GE 20 LO	0.071
25	42	25	16	30.5	4	48	240	GE 25 LO	0.131
32	52	32	18	37	4	62	310	GE 32 LO	0.182
40	62	40	22	46	4	100	500	GE 40 LO	0.338
50	75	50	28	57	4	156	780	GE 50 LO	0.558
63	95	63	36	71.5	4	245	1220	GE 63 LO	1.23
80	120	80	45	91	4	400	2000	GE 80 LO	2.39
100	150	100	55	113	4	610	3050	GE 100 LO	4.8
125	180	125	70	138	4	950	4750	GE 125 LO	8.5

(1) No relubrication facility

GEZ..ES, GEZ..ES 2RS Series

SLIDING SURFACE STEEL/STEEL

RADIAL PLAIN BEARINGS, REQUIRING MAINTENANCE, INCH DIMENSIONS.
 SERIES GEZ..ES, GEZ..ES 2RS



GEZ...ES
 GEZ...ES 2RS

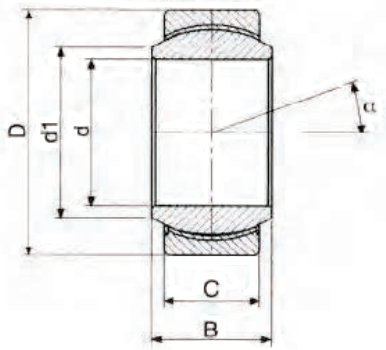


Nominal dimensions							α°	Load ratings		Bearing numbers		Mass
mm								dynamic	static			kg
d	D	B	C	d_K	R_{1s} min	R_{2s} min		C	C_o			(approx.
12.7	22.225	11.1	9.525	18	0.3	0.6	6	13	41	GEZ 12 ES		0.022
15.875	26.988	13.894	11.913	23	0.3	0.6	6	22	65	GEZ 15 ES		0.036
19.05	31.75	16.662	14.275	27.5	0.3	0.6	6	31	95	GEZ 19 ES	GEZ 19 ES 2RS	0.053
22.225	36.513	19.431	16.662	32	0.3	0.6	6	42	127	GEZ 22 ES	GEZ 22 ES 2RS	0.085
25.4	41.275	22.225	19.05	36.5	0.3	0.6	6	56	166	GEZ 25 ES	GEZ 25 ES 2RS	0.121
31.75	50.8	27.762	23.8	45.5	0.6	0.6	6	86	260	GEZ 31 ES	GEZ 31 ES 2RS	0.232
34.925	55.563	30.15	26.187	49	0.6	1	6	102	310	GEZ 34 ES	GEZ 34 ES 2RS	0.351
38.1	61.913	33.325	28.575	54.7	0.6	1	6	125	375	GEZ 38 ES	GEZ 38 ES 2RS	0.422
44.45	71.438	38.887	33.325	63.9	0.6	1	6	170	510	GEZ 44 ES	GEZ 44 ES 2RS	0.641
50.8	80.963	44.45	38.1	73	0.6	1	6	224	670	GEZ 50 ES	GEZ 50 ES 2RS	0.932
57.15	90.488	55.013	42.85	82	0.6	1	6	280	850	GEZ 57 ES	GEZ 57 ES 2RS	1.33
63.5	100.013	55.55	47.625	92	1	1	6	355	1060	GEZ 63 ES	GEZ 63 ES 2RS	1.85
69.85	111.125	61.112	52.375	100	1	1	6	415	1250	GEZ 69 ES	GEZ 69 ES 2RS	2.42
76.2	120.65	66.675	57.15	109.5	1	1	6	500	1500	GEZ 76 ES	GEZ 76 ES 2RS	3.10
82.55	130.175	72.238	61.9	119	1	1	6	585	1760	GEZ 82 ES	GEZ 82 ES 2RS	3.82
88.9	139.7	77.775	66.675	128	1	1	6	680	2040	GEZ 88 ES	GEZ 88 ES 2RS	4.79
95.25	149.225	83.337	71.425	137	1	1	6	780	2360	GEZ 95 ES	GEZ 95 ES 2RS	5.80
101.6	158.75	88.9	76.2	146	1	1	6	900	2650	GEZ 101 ES	GEZ 101 ES 2RS	7.00
107.95	168.275	94.463	80.95	154.9	1	1	6	1000	2900	GEZ 107 ES	GEZ 107 ES 2RS	8.41
114.3	177.8	100.013	85.725	164.5	1	1	6	1120	3400	GEZ 114 ES	GEZ 114 ES 2RS	9.80
120.65	187.325	105.562	90.475	173.5	1	1	6	1250	3750	GEZ 120 ES	GEZ 120 ES 2RS	11.50
127	196.85	111.125	95.25	183	1	1	6	1400	4150	GEZ 127 ES	GEZ 127 ES 2RS	13.50
152.4	222.25	120.65	104.775	207	1	1	5	1730	5200	GEZ 152 ES	GEZ 152 ES 2RS	17.50

GE.. UK, GE.. UK 2RS Series

SLIDING SURFACE STEEL/PTFE

RADIAL PLAIN BEARINGS, MAINTENANCE FREE.
SERIES GE..UK, GE..UK 2RS

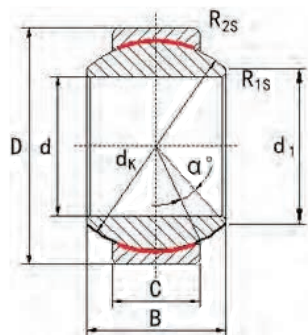


GE...UK
GE...UK 2RS

Nominal dimensions					α°	Load ratings		Bearing numbers	Mass kg (approx.)
d	D	B	C	$d1_{min}$		dynamic KN	static KN		
mm									
4	12	5	3	6	16	2.1	5.4	GE 4 UK	0.0033
5	14	6	4	7	13	3.6	9.1	GE 5 UK	0.0038
6	14	6	4	8	13	3.6	9.1	GE 6 UK	0.0042
8	16	8	5	10	15	5.8	14	GE 8 UK	0.0075
10	19	9	6	13	12	8.6	21	GE 10 UK	0.011
12	22	10	7	15	10	11	28	GE 12 UK	0.015
15	26	12	9	18	8	18	45	GE 15 UK	0.027
17	30	14	10	20	10	22	56	GE 17 UK	0.041
20	35	16	12	24	9	31	78	GE 20 UK GE 20 UK 2RS	0.066
25	42	20	16	29	7	51	127	GE 25 UK GE 25 UK 2RS	0.119
30	47	22	18	34	6	65	166	GE 30 UK GE 30 UK 2RS	0.163
35	55	25	20	40	6	110	220	GE 35 UK 2RS	0.25
40	62	28	22	45	6	140	280	GE 40 UK 2RS	0.3
45	68	32	25	51	6	180	350	GE 45 UK 2RS	0.35
50	75	35	28	56	6	220	430	GE 50 UK 2RS	0.5
60	90	44	36	67	6	340	690	GE 60 UK 2RS	1
70	105	49	40	78	6	430	870	GE 70 UK 2RS	1.4
80	120	55	45	90	6	560	1140	GE 80 UK 2RS	2
90	130	60	50	98	6	690	1350	GE 90 UK 2RS	2.5
100	150	70	55	110	6	850	1700	GE 100 UK 2RS	4
110	160	70	55	121	6	900	1850	GE 110 UK 2RS	4.5
120	180	85	70	136	6	1300	2700	GE 120 UK 2RS	7.2
140	210	90	70	155	6	1500	3000	GE 140 UK 2RS	10

GE..FW Series

SLIDING SURFACE STEEL/PTFE

 RADIAL PLAIN BEARINGS, MAINTENANCE FREE, HEAVY DUTY.
 SERIES **GE..FW**


GE...FW



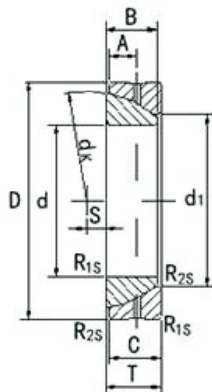
Plain Bearings

Nominal dimensions									Load ratings		Bearing numbers	Mass kg (approx.)
mm									dynamic	static		
d	D	B	C	d ₁ min	dk	R _{1s} min	R _{2s} min	α°	C	C ₀		
6	16	9	5	9	13	0.3	0.3	21	5.8	14	GE 6 FW	0.008
8	19	11	6	11	16	0.3	0.3	21	8.6	21	GE 8 FW	0.014
10	22	12	7	13	18	0.3	0.3	18	11	28	GE 10 FW	0.021
12	26	15	9	16	22	0.3	0.3	18	18	45	GE 12 FW	0.033
15	30	16	10	19	25	0.3	0.3	16	22	56	GE 15 FW	0.049
17	35	20	12	21	29	0.3	0.3	19	31	78	GE 17 FW	0.083
20	42	25	16	24	35.5	0.3	0.3	17	51	127	GE 20 FW	0.153
25	47	28	18	29	40.7	0.6	0.6	17	65	166	GE 25 FW	0.203
30	55	32	20	34	47	0.6	0.6	17	83	212	GE 30 FW	0.304

GE.. SX Series

SLIDING SURFACE STEEL/STEEL

ANGULAR CONTACT PLAIN BEARINGS, REQUIRING MAINTENANCE.
SERIES **GE..SX**



GE...SX

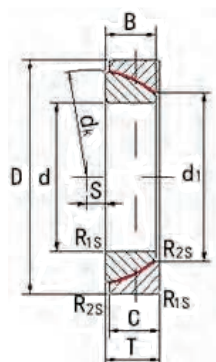


Nominal dimensions											α°	Load ratings		Bearing numbers	Mass kg (approx.)
mm												dynamic	static		
d	D	T	d_k	d_i	B	C	S	A	R_{1s} min	R_{2s} min		CN	C_o		
25	47	15	42.5	31.4	14	14	1	7.5	0.6	0.2	2.7	47.5	236	GE 25 SX	0.13
28	52	16	47	35.7	15	15	1	8	1	0.3	2.4	60	300	GE 28 SX	0.17
30	55	17	50	36.1	16	16	2	8.5	1	0.3	2.3	63	315	GE 30 SX	0.21
32	58	17	52	37.5	17	16	2	8.5	1	0.3	2.3	71	354	GE 32 SX	0.24
35	62	18	56	42.4	17	17	2	9	1	0.3	2	76.5	390	GE 35 SX	0.27
40	68	19	60	46.8	18	18	1.5	9.5	1	0.3	1.9	90	450	GE 40 SX	0.32
45	75	20	66	52.9	19	19	1.5	10	1	0.3	1.7	106	530	GE 45 SX	0.41
50	80	20	74	59.1	19	19	4	10	1	0.3	1.6	118	585	GE 50 SX	0.45
55	90	23	80	62	22	22	4	11.5	1.5	0.6	1.4	146	735	GE 55 SX	0.67
60	95	23	86	68.1	22	22	5	11.5	1.5	0.6	1.3	160	800	GE 60 SX	0.72
65	100	23	92	75.6	22	22	5	11.5	1.5	0.6	1.3	173	865	GE 65 SX	0.76
70	110	25	102	82.2	24	24	7	12.5	1.5	0.6	1.1	208	1040	GE 70 SX	1.0
75	115	25	107	84.4	25	24	7.9	12.5	1.5	0.6	1	220	1129	GE 75 SX	1.1
80	125	29	115	90.5	27	27	10	14.5	1.5	0.6	2	250	1250	GE 80 SX	1.5
85	130	29	122	94.8	29	26.5	9.4	14.5	1.5	0.6	2	284	1422	GE 85 SX	1.6
90	140	32	130	103.3	30	30	11	16	2	0.6	1.8	320	1600	GE 90 SX	2.1
95	145	32	135	104.4	32	29.5	10.8	16	2	0.6	2	335	1750	GE 95 SX	2.2
100	150	32	140	114.3	30	30	12	16	2	0.6	1.7	345	1760	GE 100 SX	2.3
105	160	35	148	113.8	35	32.5	12.3	17.5	2	0.6	2	423	2116	GE 105 SX	2.9
110	170	38	160	125.8	36	36	15	19	2.5	0.6	1.5	475	2360	GE 110 SX	3.6
120	180	38	170	135.4	36	36	17	19	2.5	0.6	1.4	510	2550	GE 120 SX	3.9
130	200	45	190	148	42	42	20	22.5	2.5	0.6	1.9	640	3200	GE 130 SX	5.9
140	210	45	200	160.6	42	42	20	22.5	2.5	0.6	1.8	680	3450	GE 140 SX	6.3
150	225	48	213	170.9	45	45	21	24	3	1	1.7	780	3900	GE 150 SX	7.7
160	240	51	225	181.4	48	48	21	25.5	3	1	1.6	900	4500	GE 160 SX	9.4
170	260	57	250	194.3	54	54	27	28.5	3	1	1.4	1100	5500	GE 170 SX	12.0
180	280	64	260	205.5	61	61	21	32	3	1	1.3	1320	6700	GE 180 SX	17.0
190	290	64	275	211.8	61	61	29	32	3	1	1.3	1370	6950	GE 190 SX	18.0
200	310	70	290	229.5	66	66	26	35	3	1	1.6	1560	7800	GE 200 SX	22.5

GE.. SW Series

SLIDING SURFACE STEEL/PTFE

ANGULAR CONTACT PLAIN BEARINGS, MAINTENANCE FREE.
 SERIES GE..SW



GE...SW

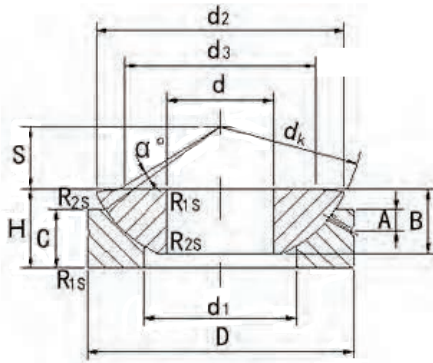


Nominal dimensions										α°	Load ratings		Bearing numbers	Mass kg (approx.)
mm											dynamic	static		
d	D	T	d_k	d_i	B	C	S	R_{1s} $_{min}$	R_{2s} $_{min}$		C	C_o		
25	47	15	42.5	31.4	14	14	1	0.6	0.2	2.7	71	140	GE 25 SW	0.14
28	52	16	47	35.7	15	15	1	1	0.3	2.4	90	180	GE 28 SW	0.18
30	55	17	50	36.1	16	16	2	1	0.3	2.3	95	190	GE 30 SW	0.22
32	58	17	52	37.5	17	16	2	1	0.3	2.3	102	204	GE 32 SW	0.24
35	62	18	56	42.4	17	17	2	1	0.3	2	116	232	GE 35 SW	0.28
40	68	19	60	46.8	18	18	1.5	1	0.3	1.9	134	270	GE 40 SW	0.34
45	75	20	66	52.9	19	19	1.5	1	0.3	1.7	160	320	GE 45 SW	0.43
50	80	20	74	59.1	19	19	4	1	0.3	1.6	176	355	GE 50 SW	0.47
55	90	23	80	62	22	22	4	1.5	0.6	1.4	220	440	GE 55 SW	0.70
60	95	23	86	68.1	22	22	5	1.5	0.6	1.3	240	480	GE 60 SW	0.75
65	100	23	92	75.6	22	22	5	1.5	0.6	1.3	260	520	GE 65 SW	0.80
70	110	25	102	82.2	24	24	7	1.5	0.6	1.1	315	630	GE 70 SW	1.0
75	115	25	107	84.4	25	25	7.9	1.5	0.6	1	345	670	GE 75 SW	1.1
80	125	29	115	90.5	27	27	10	1.5	0.6	2	375	750	GE 80 SW	1.6
85	130	29	122	94.8	29	26.5	9.4	1.5	0.6	2	425	810	GE 85 SW	1.7
90	140	32	130	103.3	30	30	11	2	0.6	1.8	480	965	GE 90 SW	2.2
95	145	32	135	104.4	32	29.5	10.8	2	0.6	2	500	1000	GE 95 SW	2.3
100	150	32	140	114.3	30	30	12	2	0.6	1.7	520	1040	GE 100 SW	2.4
105	160	35	148	113.8	35	32.5	12.3	2	0.6	2	565	1250	GE 105 SW	2.9
110	170	38	160	125.8	36	36	15	2.5	0.6	1.5	710	1430	GE 110 SW	3.7
120	180	38	170	135.4	36	36	17	2.5	0.6	1.4	765	1530	GE 120 SW	4.0
130	200	45	190	148	42	42	20	2.5	0.6	1.9	965	1930	GE 130 SW	6.0
140	210	45	200	160.6	42	42	20	2.5	0.6	1.8	1020	2040	GE 140 SW	6.4
150	225	48	213	170.9	45	45	21	3	1	1.7	1180	2360	GE 150 SW	7.9
160	240	51	225	181.4	48	48	21	3	1	1.6	1340	2700	GE 160 SW	9.6
170	260	57	250	194.3	54	54	27	3	1	1.4	1660	3350	GE 170 SW	13.0
180	280	65	260	205.5	61	61	21	3	1	1.3	2000	4000	GE 180 SW	17.5
190	290	64	275	211.8	61	61	29	3	1	1.3	2080	4150	GE 190 SW	18.0
200	310	70	290	229.2	66	66	26	3	1	1.6	2360	4750	GE 200 SW	23.0

GE.. AX Series

SLIDING SURFACE STEEL/STEEL

THRUST PLAIN BEARINGS, REQUIRING MAINTENANCE.
SERIES **GE..AX**



GE...AX

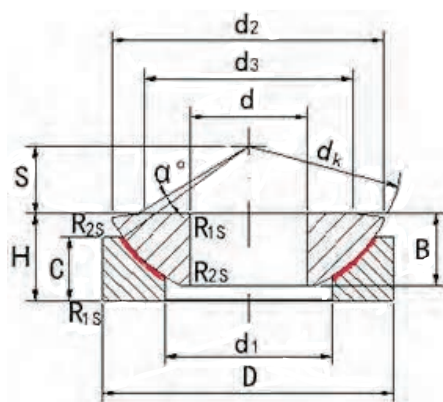


Nominal dimensions														Load ratings		Bearing numbers	Mass kg (approx.)
mm														dynamic KN	static		
d	D	H	dk	d1	d2	d3	B	C	S	A	R1s min	R2s min	α°	C	Co		
10	30	9.5	32	16.5	27.5	21	7.9	6	7	3	0.6	0.2	10	24	120	GE 10 AX	0.04
12	35	13	37	19.5	32	24	9.3	9	8	4	0.6	0.2	9	32.5	163	GE 12 AX	0.07
15	42	15	45	24	38.9	29	10.7	11	10	5	0.6	0.2	7	52	260	GE 15 AX	0.12
17	47	16	50	28	43.4	34	11.5	11.5	11	5	0.6	0.15	6	58.5	300	GE 17 AX	0.16
20	55	20	60	33.5	50	40	14.3	13	12.5	6	1	0.3	6	75	375	GE 20 AX	0.25
25	62	22.5	66	34.5	57.5	45	16	17	14	6	1	0.3	7	129	640	GE 25 AX	0.38
30	75	26	80	44	69	56	18	19.5	17.5	8	1	0.3	6	170	850	GE 30 AX	0.65
35	90	28	98	52	84	66	22	20	22	8	1	0.3	6	260	1290	GE 35 AX	1
40	105	32	114	59	98	78	27	22	24.5	9	1	0.3	6	375	1860	GE 40 AX	1.6
45	120	36.5	130	68	112	89	31	25	27.5	11	1	0.3	6	490	2450	GE 45 AX	2.4
50	130	42.5	140	69	122.5	98	33.5	32	30	10	1	0.3	5	655	3250	GE 50 AX	3.3
60	150	45	160	86	140	108	37	33	35	12.5	1	0.3	7	735	3650	GE 60 AX	4.5
70	160	50	170	95	149.5	121	40	36	35	13.5	1	0.3	6	800	4050	GE 70 AX	5.5
80	180	50	194	108	168	130	42	36	42.5	14.5	1	0.3	6	1040	5200	GE 80 AX	7
100	210	59	220	133	195.5	155	50	42	45	15	1	0.3	7	1200	6000	GE 100 AX	10.5
120	230	64	245	154	214	170	52	45	52.5	16.5	1	0.3	8	1250	6200	GE 120 AX	13
140	260	72	272	176	244	198	61	50	52.5	23	1.5	0.6	6	1630	8150	GE 140 AX	18
160	290	77	310	199	272	213	65	52	65	23	1.5	0.6	7	1900	9500	GE 160 AX	23
180	320	86	335	224	300	240	70	60	67.5	26	1.5	0.6	8	2120	10600	GE 180 AX	31
200	340	87	358	246	321	265	74	60	70	27	1.5	0.6	8	2360	11800	GE 200 AX	34

GE.. AW Series

SLIDING SURFACE STEEL/PTFE

THRUST PLAIN BEARINGS, MAINTENANCE FREE.
 SERIES **GE..AW**



GE...AW



Nominal dimensions												α°	Load ratings		Bearing numbers	Mass kg (approx.)
mm													dynamic	static		
d	D	H	d_k	d_1	d_2	d_3	B	C	S	R_{1s} $_{min}$	R_{2s} $_{min}$		KN C	C_o		
10	30	9.5	32	16.5	27.5	21	7.9	6	7	0.6	0.2	10	36	72	GE 10 AW	0.04
12	35	13	37	19.5	32	24	9.3	9	8	0.6	0.2	9	49	98	GE 12 AW	0.07
15	42	15	45	24	38.9	29	10.7	11	10	0.6	0.2	7	78	156	GE 15 AW	0.12
17	47	16	50	28	43.4	34	11.5	11.5	11	0.6	0.2	6	88	176	GE 17 AW	0.16
20	55	20	60	33.5	50	40	14.3	13	12.5	1	0.3	6	112	224	GE 20 AW	0.25
25	62	22.5	66	34.5	57.5	45	16	17	14	1	0.3	7	193	390	GE 25 AW	0.38
30	75	26	80	44	69	56	18	19.5	17.5	1	0.3	6	255	510	GE 30 AW	0.65
35	90	28	98	52	84	66	22	20	22	1	0.3	6	390	780	GE 35 AW	1
40	105	32	114	59	98	78	27	22	24.5	1	0.3	6	560	1120	GE 40 AW	1.6
45	120	36.5	130	68	112	89	31	25	27.5	1	0.3	6	735	1460	GE 45 AW	2.4
50	130	42.5	140	69	122.5	98	33.5	32	30	1	0.3	5	980	1960	GE 50 AW	3.3
60	150	45	160	86	140	108	37	33	35	1	0.3	7	1100	2200	GE 60 AW	4.5
70	160	50	170	95	149.5	121	40	36	35	1	0.3	6	1200	2400	GE 70 AW	5.5
80	180	50	194	108	168	130	42	36	42.5	1	0.3	6	1560	3100	GE 80 AW	7
100	210	59	220	133	195.5	155	50	42	45	1	0.3	7	1800	3600	GE 100 AW	10.5
120	230	64	245	154	214	170	52	45	52.5	1	0.3	8	1860	3750	GE 120 AW	13
140	260	72	272	176	244	198	61	50	52.5	1.5	0.6	6	2450	4900	GE 140 AW	18
160	290	77	310	199	272	213	65	52	65	1.5	0.6	7	2850	5700	GE 160 AW	23
180	320	86	335	224	300	240	70	60	67.5	1.5	0.6	8	3200	6400	GE 180 AW	31
200	340	87	358	246	321	265	74	60	70	1.5	0.6	8	3550	7100	GE 200 AW	34
220	370	97	388	265	350	289	82	67	75	1.5	0.6	7	4400	8800	GE 220 AW	44.5
240	400	103	420	294	382	314	87	73	77.5	1.5	0.6	6	5200	10400	GE 240 AW	55
260	430	115	449	317	409	336	95	80	82.5	1.5	0.6	7	5400	10800	GE 260 AW	69
280	460	110	480	337	445	366	100	85	80	3.0	1	4	8500	17000	GE 280 AW	82
300	480	110	490	356	460	388	100	90	80	3.0	1	3.5	8650	17300	GE 300 AW	87
320	520	116	540	380	500	405	105	91	95	4.0	1.1	4	10600	21200	GE 320 AW	109
340	540	116	550	380	510	432	105	91	95	4.0	1.1	4	11800	23600	GE 340 AW	114
360	560	125	575	400	535	452	115	95	95	4.0	1.1	4	12700	25500	GE 360 AW	129

ROD ENDS TABLE OF CONTENTS

Index	Bearing series	Bore diameter range(mm)	Sliding contact surfaces	Relubrication needed	Integral seals	Operating temperature (°C)	Design features	Pag.
	GIR..DO	6-80	Steel/Steel	Yes	No	-50 ~ 150	It is made up of a radial spherical plain bearing GE..DO and rod body, with female thread.	20
	GIR..DO 2RS	15-80	Steel/Steel	Yes	No	-30 ~ 130	It is made up of a radial spherical plain bearing GE..DO 2RS and rod body, with female thread.	20
	GIR..UK	6-80	Steel/PTFE	No	No	-50 ~ 150	It is made up of a maintenance-free radial spherical plain bearing GE..UK and rod body, with female thread.	21
	GIR..UK 2RS	17-80	Steel/PTFE fabric	No	Yes	-30 ~ 130	It is made up of a maintenance-free radial spherical plain bearing GE..UK 2RS and rod body, with female thread.	21
	GAR..DO	6-80	Steel/Steel	Yes	No	-50 ~ 150	As GIR.., with male thread	22
	GAR..DO 2RS	15-80	Steel/Steel	Yes	Yes	-30 ~ 130	As GIR.. 2RS, with male thread	22
	GAR..UK	6-80	Steel/PTFE	No	No	-50 ~ 150	As GIR..UK, with male thread.	23
	GAR..UK 2RS	17-80	Steel/PTFE fabric	No	Yes	-30 ~ 130	As GIR..UK 2RS, with male thread.	23
	GIHR..DO	20-120	Steel/Steel	Yes	Optional	-50 ~ 150	It is made up of a radial spherical plain bearing GE..DO of GE..DO 2RS and rod body with female thread	24
	GIHR-K..DO	20-120	Steel/Steel	Yes	Optional	-50 ~ 150	As GIHR..DO, with locking slot and nuts.	24

Ends

ROD ENDS TABLE OF CONTENTS

Index	Bearing series	Bore diameter range(mm)	Sliding contact surfaces	Relubrication needed	Integral seals	Operating temperature (°C)	Design features	Pag.
	GIHN-K..LO	12-160	Steel/Steel	Yes	No	-50 ~ 150	As GIHR-K..DO, with radial spherical plain bearing GE..LO.	25
	GK..DO	10-80	Steel/Steel	Yes	Optional	-50 ~ 150	It is made up of a radial spherical plain bearing GE..DO or GE..DO 2RS, and rod body with weldable base and dowel pin.	26
	GF..DO	15-120	Steel/Steel	Yes	Optional	-50 ~ 150	It is made up of a radial spherical plain bearing GE..DO or GE..DO 2RS, and rod body with weldable base.	27
	GIHO-K..DO	12-100	Steel/Steel	Yes	Optional	-50 ~ 150	As GIHR-K..DO, in different dimensions.	28
	PHS..	4-30	Steel/Brass	Yes	No	-50 ~ 150	Outer ring with brass insert, with lubricating hole or nipple.	29
	POS..	5-30	Steel/Brass	Yes	No	-50 ~ 150	As PHS, with male thread.	30



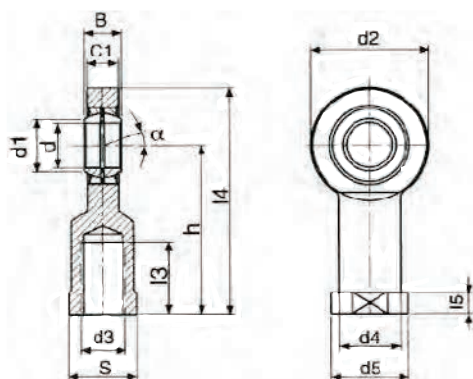
Rod Ends



GIR.. UK, GIR.. UK 2RS Series

SLIDING SURFACE STEEL/PTFE

ROD ENDS, MAINTENANCE FREE.
SERIES GIR..UK, GIR..UK 2RS



GIR...UK(1)
GIR...UK-2RS(1)



Nominal dimensions														Load ratings		Bearing numbers		Mass
mm														dynamic static				kg
d	B	C1max	d1max	d2max	d3	h	l3min	l4max	l5max	d4max	d5max	S	α°	C	Co			(approx.)
6	6	4.5	8	21	M6x1	30	11	42	5	11	13	11	13	3.4	8.1	GIR 6 UK		0.017
8	8	6.5	10	24	M8x1.25	36	15	49	5	13	16	13	15	5.5	12.9	GIR 8 UK		0.035
10	9	7.5	13	29	M10x1.5	43	20	58	6.5	16	19	16	12	8.1	17.6	GIR 10 UK		0.061
12	10	8.5	15	34	M12x1.75	50	23	67	7	18	22	18	10	10.8	24.5	GIR 12 UK		0.096
15	12	10.5	18	40	M14x2	61	30	81	8	21	26	21	8	17	36	GIR 15 UK		0.162
17	14	11.5	20	46	M16x2	67	34	90	10	24	29	24	10	21	45	GIR 17 UK		0.233
20	16	13.5	24	53	M20x1.5	77	40	104	10	28	34	30	9	30	60	GIR 20 UK		0.324
25	20	18	29	64	M24x2	94	48	126	12	35	42	36	7	48	83	GIR 25 UK		0.625
30	22	20	34	73	M30x2	110	56	147	15	42	50	46	6	62	110	GIR 30 UK		0.976
35	25	22	39	82	M36x3	125	60	167	15	48	58	55	6	80	146	GIR 35 UK 2RS		1.52
40	28	24	45	92	M39x3	142	65	190	18	52	65	60	7	100	180	GIR 40 UK 2RS		2.06
45	32	28	50	102	M42x3	145	65	199	20	58	70	65	7	127	240	GIR 45 UK 2RS		2.72
50	35	31	55	112	M45x3	160	68	221	20	62	75	70	6	156	290	GIR 50 UK 2RS		3.57
60	44	39	66	135	M52x3	175	70	247	20	70	88	80	6	245	450	GIR 60 UK 2RS		5.63
70	49	43	77	160	M56x4	200	80	283	20	80	98	85	6	315	610	GIR 70 UK 2RS		8.33
80	55	48	88	180	M64x4	230	85	325	25	95	110	95	6	400	750	GIR 80 UK 2RS		13.04

(1) Left hand thread GIR..UK / GIR..UK 2RS

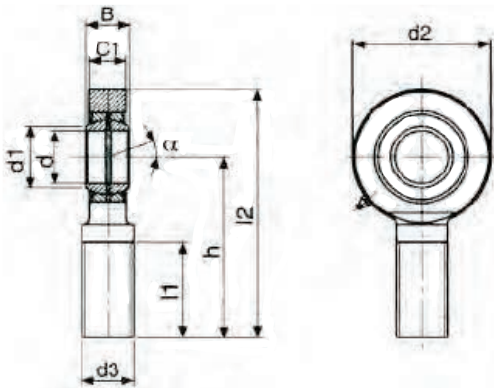


Rod Ends

GAR.. DO, GAR.. DO 2RS Series

SLIDING SURFACE STEEL/STEEL

ROD ENDS, REQUIRING MAINTENANCE.
SERIES GAR..DO, GAR..DO 2RS



GAR...DO(1)
GAR...DO 2RS(1)



Nominal dimensions									α°	Load ratings		Bearing numbers		Mass
mm										dynamic	static			kg
d	B	$C1_{max}$	$d1_{max}$	$d2_{max}$	d_3	h	$l1_{min}$	$l2_{max}$		C	C_0			(approx.)
5	6	4.5	7	21	M5x0.8	36	16	48	13	3.4	8.1	GAR 5 DO		0.011
6	6	4.5	8	21	M6x1	36	18	48	13	3.4	8.1	GAR 6 DO		0.013
8	8	6.5	10	24	M8x1.25	42	22	55	15	5.5	12.9	GAR 8 DO		0.026
10	9	7.5	13	29	M10x1.5	48	26	63	12	8.1	17.6	GAR 10 DO		0.044
12	10	8.5	15	34	M12x1.75	54	28	71	10	10.8	24.5	GAR 12 DO		0.086
15	12	10.5	18	40	M14x2	63	34	83	8	17	36	GAR 15 DO	GAR 15 DO 2RS	0.14
17	14	11.5	20	46	M16x2	69	36	92	10	21	45	GAR 17 DO	GAR 17 DO 2RS	0.19
20	16	13.5	24	53	M20x1.5	78	43	105	9	30	60	GAR 20 DO	GAR 20 DO 2RS	0.31
25	20	18	29	64	M24x2	94	53	126	7	48	83	GAR 25 DO	GAR 25 DO 2RS	0.56
30	22	20	34	73	M30x2	110	65	147	6	62	110	GAR 30 DO	GAR 30 DO 2RS	0.89
35	25	22	39	82	M36x3	140	82	182	6	80	146	GAR 35 DO	GAR 35 DO 2RS	1.41
40	28	24	45	92	M39x3	150	86	198	7	100	180	GAR 40 DO	GAR 40 DO 2RS	1.86
45	32	28	50	102	M42x3	163	94	214	7	127	240	GAR 45 DO	GAR 45 DO 2RS	2.57
50	35	31	55	112	M45x3	185	107	241	6	156	290	GAR 50 DO	GAR 50 DO 2RS	3.58
60	44	39	66	135	M52x3	210	115	277	6	245	450	GAR 60 DO	GAR 60 DO 2RS	5.73
70	49	43	77	160	M56x4	235	125	315	6	315	610	GAR 70 DO	GAR 70 DO 2RS	7.94
80	55	48	88	180	M64x4	270	140	360	6	400	750	GAR 80 DO	GAR 80 DO 2RS	12.06

(1) Left hand thread GAL..DO / GAL..DO 2RS

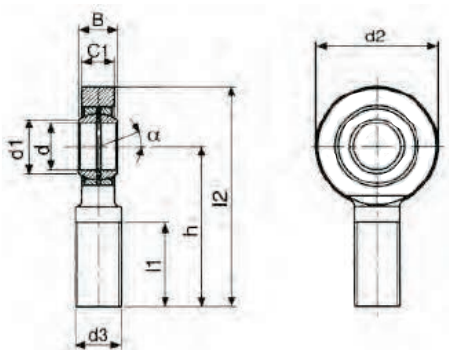


Rod Ends

GAR.. UK, GAR.. UK 2RS Series

SLIDING SURFACE STEEL/PTFE

ROD ENDS, MAINTENANCE FREE.
 SERIES GAR..UK, GAR..UK 2RS



GAR...UK(1)
 GAR...UK-2RS(1)



Nominal dimensions									α°	Load ratings		Bearing numbers	Mass kg (approx.)
mm										C	Co		
d	B	C _{1max}	d _{1max}	d _{2max}	d ₃	h	l _{1min}	l _{2max}					
6	6	4.5	8	21	M6x1	36	18	48	13	3.4	8.1	GAR 6 UK	0.013
8	8	6.5	10	24	M8x1.25	42	21	55	15	5.5	12.9	GAR 8 UK	0.026
10	9	7.5	13	29	M10x1.5	48	26	63	12	8.1	17.6	GAR 10 UK	0.044
12	10	8.5	15	34	M12x1.75	54	28	71	10	10.8	24.5	GAR 12 UK	0.086
15	12	10.5	18	40	M14x2	63	34	83	8	17	36	GAR 15 UK	0.14
17	14	11.5	20	46	M16x2	69	36	92	10	21	45	GAR 17 UK	0.19
20	16	13.5	24	53	M20x1.5	78	43	105	9	30	60	GAR 20 UK	0.31
25	20	18	29	64	M24x2	94	53	126	7	48	83	GAR 25 UK	0.56
30	22	20	34	73	M30x2	110	65	147	6	62	110	GAR 30 UK	0.89
35	25	22	39	82	M36x3	140	82	182	6	80	146	GAR 35 UK 2RS	1.41
40	28	24	45	92	M39x3	150	86	198	7	100	180	GAR 40 UK 2RS	1.86
45	32	28	50	102	M42x3	163	92	214	7	127	240	GAR 45 UK 2RS	2.57
50	35	31	55	112	M45x3	185	107	241	6	156	290	GAR 50 UK 2RS	3.58
60	44	39	66	135	M52x3	210	115	277	6	245	450	GAR 60 UK 2RS	5.73
70	49	43	77	160	M56x4	235	125	315	6	315	610	GAR 70 UK 2RS	7.94
80	55	48	88	180	M64x4	270	140	360	6	400	750	GAR 80 UK 2RS	12.06

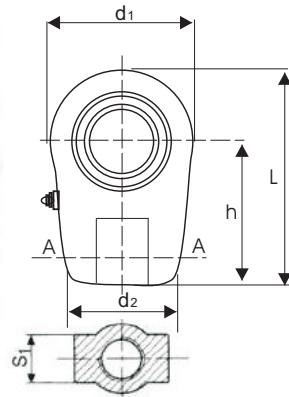
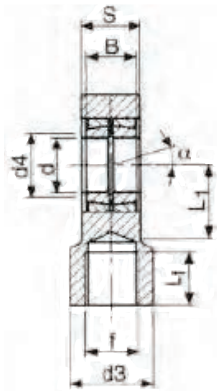
(1) Left hand thread GAL..UK / GAL..UK 2RS



GIHR.. DO, GIHR K.. DO Series

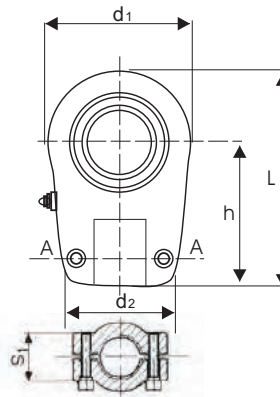
SLIDING SURFACE STEEL/STEEL

ROD ENDS, REQUIRING MAINTENANCE.
SERIES GIHR..DO, GIHR K..DO



SECTION A-A

GIHR...DO



SECTION A-A

GIHR-K...DO



Nominal dimensions														Load ratings		Bearing numbers		Mass
mm														dynamic	static	C	C ₀	kg (approx.)
d	B	d ₁	h	L ₁	d ₂	d ₃	d ₄	S	S ₁	L	l ₁	f	α°					
20	16	56	50	17	41	25	24	19	17	80	25	M16x1.5	9	30	72	GIHR 20 DO	GIHR K20 DO	0.43
25	20	56	50	17	41	25	29	23	21	80	28	M16x1.5	7	48	72	GIHR 25 DO	GIHR K25 DO	0.48
30	22	64	60	23	46	32	34	28	26	94	30	M22x1.5	6	62	106	GIHR 30 DO	GIHR K30 DO	0.74
35	25	78	70	29	58	40	39.5	30	28	112	38	M28x1.5	6	80	153	GIHR 35 DO	GIHR K35 DO	1.2
40	28	94	85	36	66	49	45	35	33	135	45	M35x1.5	7	100	250	GIHR 40 DO	GIHR K40 DO	2
50	35	116	105	46	88	61	56	40	37	168	55	M45x1.5	6	156	365	GIHR 50 DO	GIHR K50 DO	3.8
60	44	130	130	59	90	75	66.5	50	46	200	65	M58x1.5	6	245	400	GIHR 60 DO	GIHR K60 DO	5.4
70	49	154	150	66	100	86	77.5	55	51	232	75	M65x1.5	6	315	540	GIHR 70 DO	GIHR K70 DO	8.5
80	55	176	170	81	125	102	89	60	55	265	80	M80x2	6	400	670	GIHR 80 DO	GIHR K80 DO	12
90	60	206	210	101	146	124	98	65	60	323	90	M100x2	5	490	980	GIHR 90 DO	GIHR K90 DO	21.5
100	70	230	235	111	166	138	108.5	70	65	360	105	M110x2	7	610	1120	GIHR 100 DO	GIHR K100 DO	27.5
110	70	265	265	125	190	152	121	80	75	407.5	115	M120x3	6	655	1700	GIHR 110 DO	GIHR K110 DO	40.5
120	85	340	310	135	217	172	135.5	90	85	490	140	M130x5	6	950	2900	GIHR 120 DO	GIHR K120 DO	76

Left hand thread GIHL.. DO

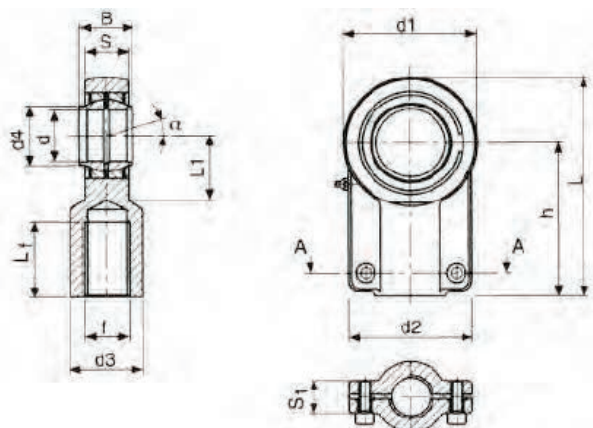


Rod Ends

GIHN K.. LO Series

SLIDING SURFACE STEEL/STEEL

ROD ENDS, REQUIRING MAINTENANCE.
SERIES GIHN K..LO



GIHN-K...LO SECTION A-A



Nominal dimensions														Load ratings		Bearing numbers		Mass
mm														dynamic static				kg
d	B	d1	h	L1	d2	d3	d4	S	S1	l	l1	f	α°	C	C0			(approx.)
12	12	32	38	17	32	16	15.5	10.5	12	54	14	M12x1.25	4	10.8	24.5	GIHN K12 LO		0.10
16	16	40	44	19	40	21	20	13	11.5	64	18	M14x1.5	4	17.6	36.5	GIHN K16 LO		0.20
20	20	47	52	23	47	25	25	17	14	77	22	M16x1.5	4	30	48	GIHN K20 LO		0.40
25	25	58	65	29	54	30	30.5	21	17	96	27	M20x1.5	4	48	78	GIHN K25 LO		0.66
32	32	70	80	37	66	38	38	27	22	118	32	M27x2	4	67	114	GIHN K32 LO		1.2
40	40	89	97	46	80	47	46	32	26	146	41	M33x2	4	100	204	GIHN K40 LO		2.1
50	50	108	120	57	96	58	57	40	32	179	50	M42x2	4	156	310	GIHN K50 LO		4.4
63	63	132	140	64	114	70	71.5	52	38	211	62	M48x2	4	255	430	GIHN K63 LO		7.6
70	70	155	160	76	135	80	79	57	42	245	70	M56x2	4	315	540	GIHN K70 LO		9.5
80	80	168	180	86	148	90	91	66	48	270	78	M64x3	4	400	695	GIHN K80 LO		14.5
90	90	185	195	91	160	100	99	72	52	296	85	M72x3	4	490	750	GIHN K90 LO		17
100	100	210	210	96	178	110	113	84	62	322	98	M80x3	4	610	1060	GIHN K100 LO		28
110	110	235	235	101	190	125	124	88	62	364	105	M90x3	4	655	1200	GIHN K110 LO		32
125	125	264	260	106	200	135	138	103	72	405	120	M100x3	4	950	1430	GIHN K120 LO		43

Left hand thread GIHN KL.. LO

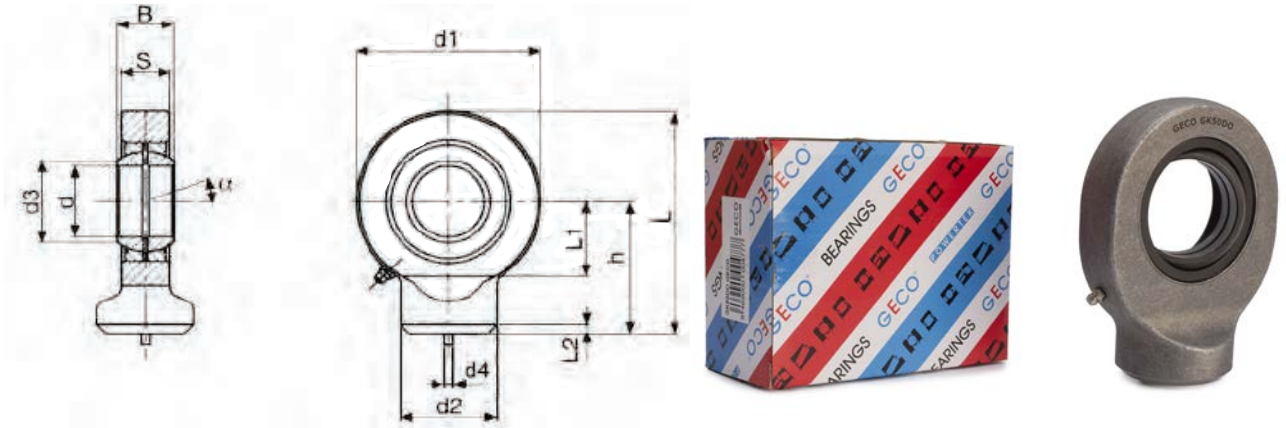


Rod Ends

GK.. DO Series

SLIDING SURFACE STEEL/STEEL

ROD ENDS, REQUIRING MAINTENANCE.
SERIES **GK..DO**



GK...DO

Nominal dimensions												Load ratings		Bearing numbers	Mass
mm												dynamic static			kg
d	B	d ₁	h	d ₂	d ₃	d ₄	S	l	l ₁	l ₂	α°	C	C ₀		(approx.)
10	9	29	24	15	13	3	7	38.5	15	2	12	8.15	15.6	GK 10 DO	0.04
12	10	34	27	17.5	15	3	8	44	18	2	11	10.8	21.6	GK 12 DO	0.06
15	12	40	31	21	18	4	10	51	20	2.5	8	17	32	GK 15 DO	0.12
17	14	46	35	24	20.5	4	11	58	23	3	10	21.2	40	GK 17 DO	0.19
20	16	53	38	27.5	24	4	13	65.4	27	3	9	30	54	GK 20 DO	0.23
25	20	64	45	33.5	29	4	17	77	32	4	7	48	72	GK 25 DO	0.43
30	22	73	51	40	34	4	19	87.5	37	4	6	62	95	GK 30 DO	0.64
35	25	82	61	47	39.5	4	21	102	42	4	6	80	125	GK 35 DO	0.96
40	28	92	69	52	45	4	23	115	48	5	7	100	156	GK 40 DO	1.30
45	32	102	77	58	50.5	6	27	128	52	5	7	127	208	GK 45 DO	1.80
50	35	112	88	62	56	6	30	144	60	6	6	156	250	GK 50 DO	2.50
60	44	135	100	70	66.5	6	38	168	75	8	6	245	390	GK 60 DO	3.90
70	49	160	115	80	77.5	6	42	195	87	10	6	315	510	GK 70 DO	6.60
80	55	180	141	95	89	6	47	231	100	10	6	400	620	GK 80 DO	8.70

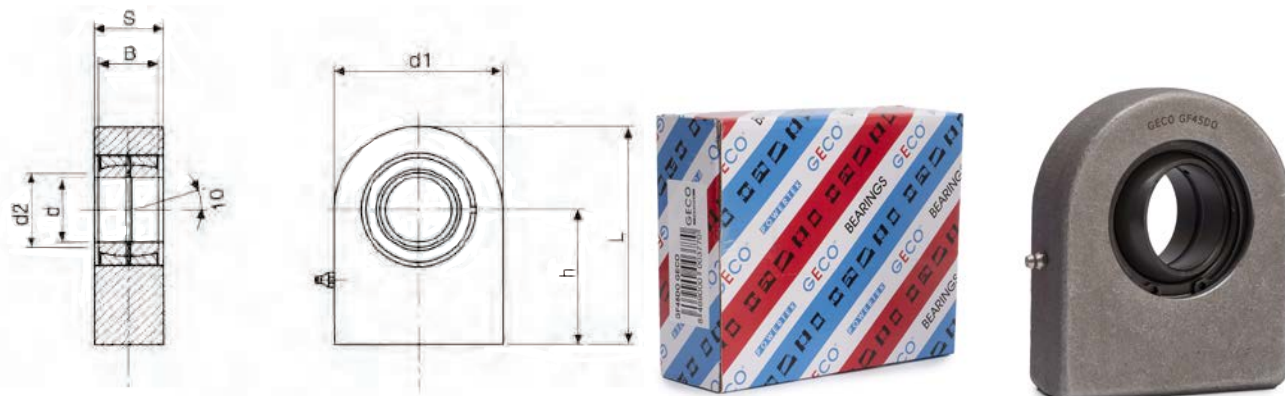


Rod Ends

GF.. DO Series

SLIDING SURFACE STEEL/STEEL

ROD ENDS, REQUIRING MAINTENANCE.
SERIES GF..DO



GF...DO

Nominal dimensions							α°	Load ratings		Bearing numbers	Mass
mm								dynamic static			kg
d	B	d_1	h	d_2	S	L		C	C_o		(approx.)
20	16	50	38	24	19	63	9	30	67	GF 20 DO	0.35
25	20	55	45	29	23	72.5	7	48	69.5	GF 25 DO	0.53
30	22	65	51	34	28	83.5	6	62	118	GF 30 DO	0.87
35	25	83	61	39.5	30	102.5	6	80	196	GF 35 DO	1.5
40	28	100	69	45	35	119	7	100	300	GF 40 DO	2.4
45	32	110	77	50.5	40	132	7	127	380	GF 45 DO	3.4
50	35	120	88	56	40	149.5	6	156	440	GF 50 DO	4.4
60	44	140	100	66.5	50	170	6	245	570	GF 60 DO	7.1
70	49	164	115	77.5	55	198	6	315	695	GF 70 DO	10.5
80	55	180	141	89	60	231	6	400	780	GF 80 DO	15
90	60	226	150	95	65	263	5	490	1340	GF 90 DO	24
100	70	250	170	109.5	70	295	7	610	1500	GF 100 DO	32
110	70	295	185	121	80	332.5	6	655	2160	GF 110 DO	48
120	85	360	210	135.5	90	390	6	950	3250	GF 120 DO	79

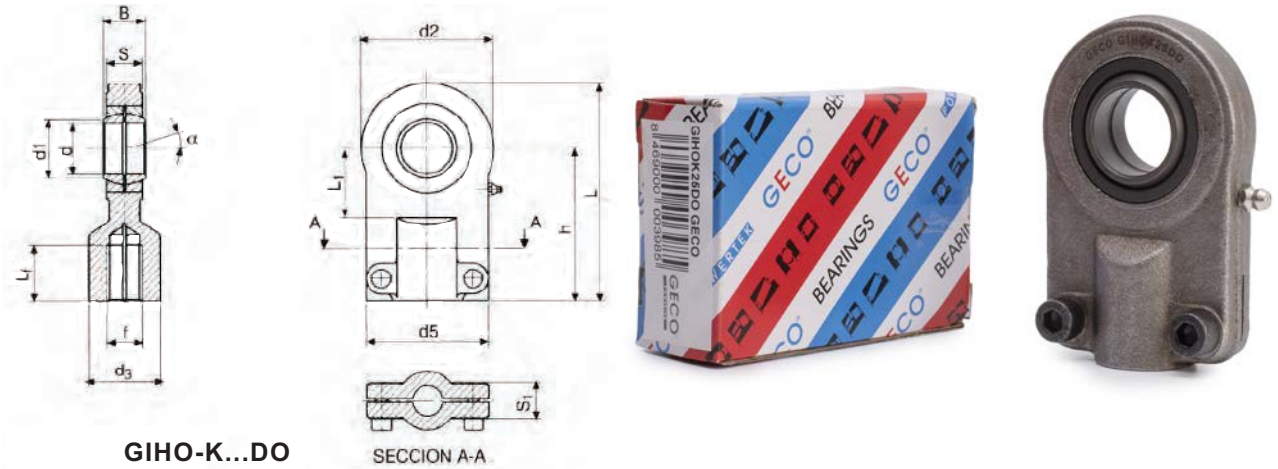


Rod Ends

GIHO K.. DO Series

SLIDING SURFACE STEEL/STEEL

ROD ENDS, REQUIRING MAINTENANCE.
SERIES GIHO K..DO



Nominal dimensions														Load ratings		Bearing numbers		Mass
mm														α°	dynamic static KN			kg (approx.)
d	B	d ₂	d ₁	d ₃	d ₅	S	S ₁	h	L ₁	L	l ₁	f			C	C ₀		
12	10	32	15	17	40	8	13	42	15	58	18	M10x1.25	3	10.8	17		GIHO K12 DO	0.15
16	14	42	20	21	45	11	13	48	17	69	22	M12x1.25	3	21.1	28.5		GIHO K16 DO	0.25
20	16	50	25	25	55	13	17	58	19	83	28	M14x1.5	3	30	42.5		GIHO K20 DO	0.43
25	20	62	29	30	62	17	17	68	23	99	34	M16x1.5	3	48	67		GIHO K25 DO	0.73
30	22	76	34	36	80	19	19	85	29	123	38	M20x1.5	3	62	108		GIHO K30 DO	1.3
40	28	96	45	45	90	23	23	105	37	153	48	M27x2	3	100	156		GIHO K40 DO	2.3
50	35	116	55	55	105	30	30	130	46	188	62	M33x2	3	156	245		GIHO K50 DO	4.4
60	44	150	66	68	134	38	38	150	57	255	74	M42x2	3	245	380		GIHO K60 DO	8.4
80	55	195	88	78	156	47	47	185	64	282.5	98	M48x2	3	400	670		GIHO K80 DO	15.6
100	70	235	109	100	190	57	55	240	86	357.5	122	M64x3	3	610	1120		GIHO K100 DO	28

Left hand thread GIHO KL.. DO

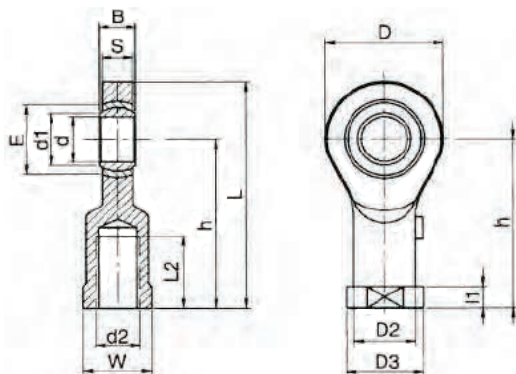


Rod Ends

PHS..., PHS..L Series

SLIDING SURFACE STEEL/BRASS

ROD ENDS, REQUIRING MAINTENANCE.
SERIES PHS..., PHS.. L



PHS...
PHS...EC
PHS...1 Nomal CETOP

Nominal dimensions														Load ratings		Bearing numbers		Mass
mm														dynamic static KN				kg (approx.)
d	d ₁	B	E	S	d ₂	D	h	L	D ₂	D ₃	L ₁	W	C	C ₀				
5	7.7	8	11.11	7	M5x0.8	16	27	35	9	12	4	9	3,2	7	PHS 5	PHS 5 L	0.018	
6	9.0	9	12.71	7	M6x1	18	30	39	10	13	5	11	4.3	8	PHS 6	PHS 6 L	0.026	
8	10.4	12	15.88	9	M8x1.25	24	36	47	12.5	16	5	14	7.2	12	PHS 8	PHS 8 L	0.045	
10	12.9	14	19.05	11	M10x1.5	26	43	56	15	19	6.5	17	10	15	PHS 10	PHS 10 L	0.076	
10	12.9	14	19.05	11	M10x1.25	26	43	56	15	19	6.5	17	10	15	PHS 10.1	PHS 10.1 L	0.076	
12	15.4	16	22.23	12	M12x1.75	30	50	65	17.5	22	6.5	19	13.4	17	PHS 12	PHS 12 L	0.114	
12	15.4	16	22.23	12	M12x1.25	30	50	65	17.5	22	6.5	19	13.4	17	PHS 12.1	PHS 12.1	0.114	
14	16.9	19	25.40	14	M14x2	34	57	74	20	25	8	22	17.5	24	PHS 14	PHS 14 L	0.158	
16	19.4	21	28.58	15	M16x2	40	64	84	22	28	8	24	20	30	PHS 16	PHS 16 L	0.200	
16	19.4	21	28.58	15	M16x1.5	40	64	84	22	28	8	24	20	30	PHS 16.1	PHS 16.1 L	0.200	
18	21.9	23	31.75	17	M18x1.5	44	71	93	25	31	10	27	27	42	PHS 18	PHS 18 L	0.288	
20	24.4	25	34.93	18	M20x1.5	50	77	102	27.5	35	10	30	31	52	PHS 20	PHS 20 L	0.372	
22	25.9	28	38.10	20	M22x1.5	54	84	111	30	38	12	32	38	57	PHS 22	PHS 22 L	0.475	
25	29.6	31	42.86	22	M24x2	60	94	124	33.5	42	12	36	48	68	PHS 25	PHS 25 L	0.673	
28	32.3	35	47.63	25	M27x2	66	103	136	37	46	14	41	58	76	PHS 28	PHS 28 L	0.950	
30	34.9	37	50.80	26	M30x2	70	110	145	40	50	15	46	64	88	PHS 30	PHS 30 L	1.050	

(1) PHS..EC maintenance free.

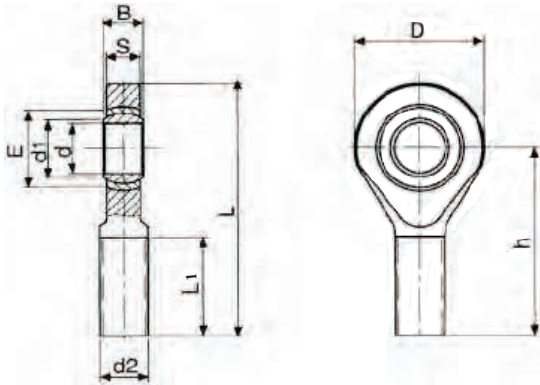
Left hand thread PHS.. L



POS.., POS..L Series

SLIDING SURFACE STEEL/BRASS

ROD ENDS, REQUIRING MAINTENANCE.
SERIES POS.., POS..L



POS...
POS...EC(1)



Nominal dimensions										Load ratings		Bearing numbers		Mass
mm										dynamic	static			kg
d	d1	B	E	S	d2	D	h	L1	L	C	Co			(approx.)
5	7.7	8	11.11	6	M5x0.8	16	33	20	41	3.2	7	POS 5	POS 5 L	0.014
6	9	9	12.70	7	M6x1	18	36	22	45	4.3	8	POS 6	POS 6 L	0.019
8	10.4	12	15.88	9	M8x1.25	22	42	25	53	7.2	12	POS 8	POS 8 L	0.036
10	12.9	14	19.05	11	M10x1.5	26	48	29	61	10	15	POS 10	POS 10 L	0.060
12	15.4	16	22.23	12	M12x1.75	30	54	33	69	13.4	17	POS 12	POS 12 L	0.089
14	16.9	19	25.40	14	M14x2	34	60	36	77	17.5	24	POS 14	POS 14 L	0.129
16	19.4	21	28.58	15	M16x2	40	66	40	86	20	30	POS 16	POS 16 L	0.181
18	21.9	23	31.75	17	M18x1.5	44	72	44	94	27	42	POS 18	POS 18 L	0.250
20	24.4	25	34.93	18	M20x1.5	50	78	47	103	31	52	POS 20	POS 20 L	0.333
22	25.9	28	38.10	20	M22x1.5	54	84	51	111	38	57	POS 22	POS 22 L	0.430
25	29.5	31	42.86	22	M24x2	60	94	57	124	48	68	POS 25	POS 25 L	0.575
28	32.3	35	47.59	25	M27x2	66	103	62	136	58	76	POS 28	POS 28 L	0.800
30	34.9	37	50.80	26	M30x2	70	110	66	145	64	88	POS 30	POS 30 L	0.996

(1) POS..EC maintenance free, Sliding surface PTFE.

Left hand thread POS.. L

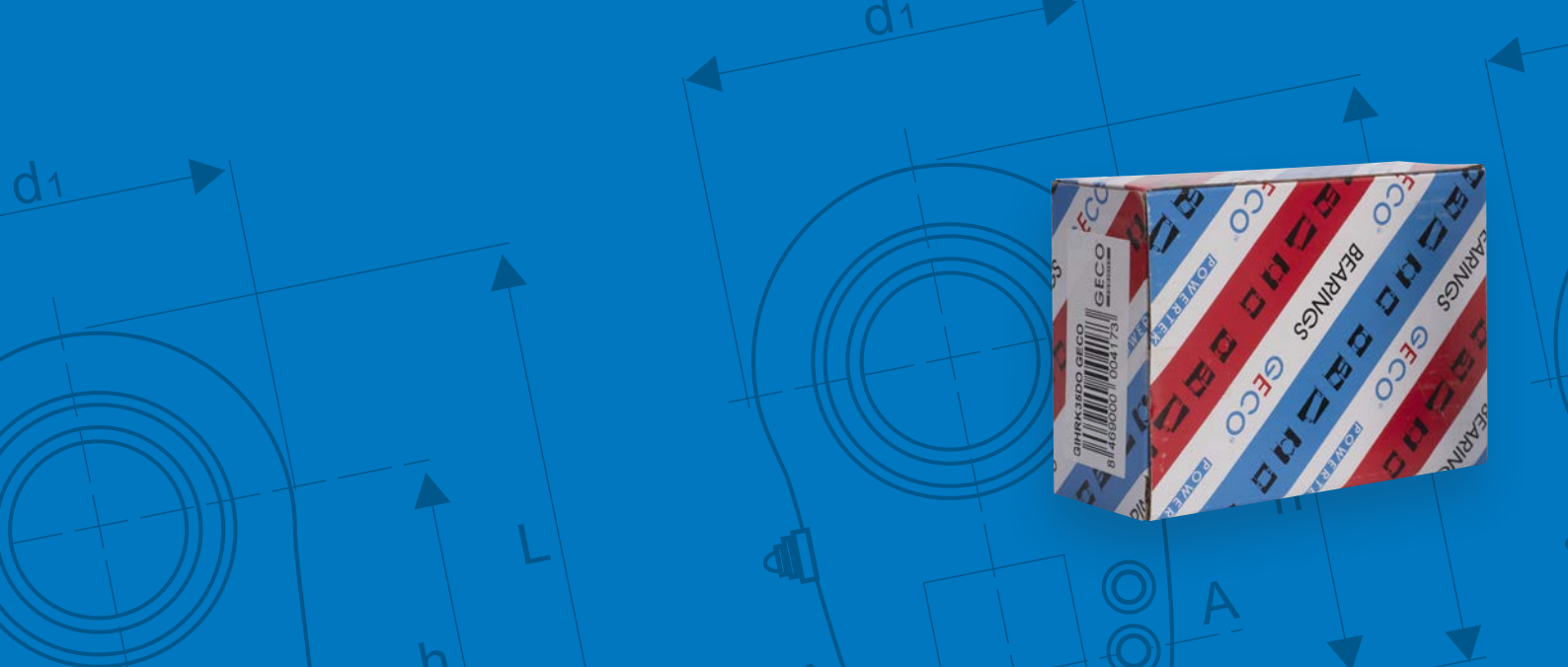


Rod Ends

Manufacturers Interchange


 Plain Bearings
 & Rod Ends

GECO®	SKF	INA	IKO
GE...DO	GE...E / ES	GE...DO	GE...E / ES
GE...DO 2RS	GE...E / ES 2RS	GE...DO 2RS	GE...E / ES 2RS
GE...FO	GEH...E / ES	GE...FO	GE...GS
GE...FO 2RS	GEH...E / ES 2RS	GE...FO 2RS	GE...GS 2RS
GE...HO 2RS	GEM...ES 2RS	GE...HO 2RS	-
GE...LO	GEG...ES	GE...LO	-
GE...FW	GEH...TE	GE...FW	-
GE...UK	GE...TE	GE...UK	GE...EC
GE...UK 2RS	GE...TE 2RS	GE...UK 2RS	GE...EC 2RS
GEZ...DO	GEZ...DO	GE...ZO	-
GEZ...DO 2RS	GEZ...DO 2RS	GE...ZO 2RS	-
GE...AW	GX...F	GE...AW	-
GE...AX	GX...	GE...AX	-
GE...SX	GAC...	GE...SX	-
GE...SW	GAC...F	GE...SW	-
GIR / L...DO	SI / SIL...ES	GIR / L...DO	-
GIR / L...DO 2RS	SI / SIL...ES 2RS	GIR / L...DO 2RS	-
GIR / L...UK	SI / SIL...TE	GIR / L...UK	-
GIR / L...UK 2RS	SI / SIL...TE 2RS	GIR / L...UK 2RS	-
GAR / L...DO	SA / SAL...ES	GAR / L...DO	-
GAR / L...DO 2RS	SA / SAL...ES 2RS	GAR / L...DO 2RS	-
GAR / L...UK	SA / SAL...TE	GAR / L...UK	-
GAR / L...UK 2RS	SA / SAL...TE 2RS	GAR / L...UK 2RS	-
GIHR...DO	SIR...ES	GIHR...DO	-
GIHR K...DO	SIR...ES	GIHR K...DO	-
GIHN K...LO	SIQG...ES	GIHN K...LO	-
GIHO K...DO	SIJ...ES	GIHO K...DO	-
GK...DO	SC...ES	GK...DO	-
GF...DO	SCF...ES	GF...DO	-
POS...	SAKAC...M	GAKR...PB	POS...
POS...EC	SAKB...F	GAKR...PW	POS...EC
PHS...	SIKAC...M	GIKR...PB	PHS...
PHS...EC	SIKB...F	GIKR...PW	PHS...EC



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