



SPHERICAL PLAIN BEARINGS



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Spherical bearings type GE are radial plain bearings consisting of an outer ring and an inner ring made of bearing steel and with spherical sliding contact surface. These bearings are suitable for arrangements with heavy radial load at low misalignment and oscillation. Furthermore the bearings can carry specific axial load in both directions.

DESIGN SPECIFICATIONS

MAIN DIMENSIONS

Main dimensions of spherical bearings type GE are in accordance with the international standards ISO 1240-1.

DESIGNATION

Designation of standard spherical bearings is specified in the dimension tables and consists of type designation (GE) and dimension (the number specifies the inner diameter in mm) e.g. GE30. Non-standard designation (radial clearance, sealing, dimension differences) are designated according to the standard STN 02 04608 (except the designation "E"). Symbol "E" – bearings with phosphated surface, e.g. GE30E.

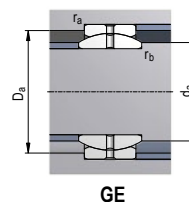
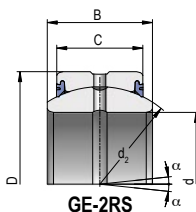
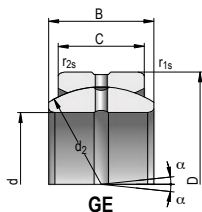
RADIAL CLEARANCE

Spherical plain bearings are commonly produced with normal radial clearance which is not indicated. Radial clearance values are specified in the following table and are in accordance with the ISO 12240-1 standard.

Bore Diameter		Radial Clearance					
		C2		normal		C3	
over	incl.	min.	max.	min.	max.	min.	max.
mm		µm					
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	240	18	100	100	192	192	284



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Dimensions mm								Radial Clearance mm	Basic Load Rating kN		Bearing Designation		Connecting Dimensions mm				Weight kg	
d	D	B	C	d ₂	r _{1s} min	r _{2s} max	α°	normal					d _a max	D _a max	r _a max	r _b max		
								min	max									
15	26	12	9	22	0,6	0,6	8	0,04	0,082	16,15	84,00	GE15E	GE15E-2RS	18	23	0,5	0,5	0,025
17	30	14	10	25	0,3	0,3	10	0,04	0,082	21,00	106,00	GE17E	GE17E-2RS	20	28	0,3	0,3	0,039
20	35	16	12	29	0,6	0,6	9	0,04	0,082	30,00	146,00	GE20E	GE20E-2RS	24	31	0,6	0,5	0,060
25	42	20	16	35,5	0,6	0,6	7	0,05	0,1	64,60	240,00	GE25E	GE25E-2RS	29	39	0,6	0,6	0,110
30	47	22	18	40,7	0,6	0,6	6	0,05	0,1	70,00	310,00	GE30E	GE30E-2RS	34	43	0,6	0,5	0,140
35	55	25	20	47	0,6	1	6	0,05	0,1	79,00	399,00	GE35E	GE35E-2RS	39	50	0,8	0,6	0,220
40	62	28	22	53	0,6	1	7	0,06	0,12	99,00	495,00	GE40E	GE40E-2RS	45	57	0,8	0,6	0,308
45	68	32	25	60	0,6	1	7	0,06	0,12	127,00	637,00	GE45E	GE45E-2RS	50	63	0,8	0,6	0,400
50	75	35	28	66	0,6	1	6	0,06	0,12	156,00	780,00	GE50E	GE50E-2RS	56	70	0,8	0,6	0,550
55	85	40	32	74	0,6	1	7	0,06	0,12	190,00	950,00	GE55E	GE55E-2RS	62	80	1	0,8	0,710
60	90	44	36	80	1	1	6	0,06	0,12	245,00	1 220,00	GE60E	GE60E-2RS	66	84	1	0,8	0,992
70	105	49	44	92	1	1	6	0,072	0,142	313,00	1 560,00	GE70E	GE70E-2RS	77	99	1	0,8	1,530
80	120	55	45	105	1	1	6	0,072	0,142	400,00	2 000,00	GE80E	GE80E-2RS	89	114	1	0,8	2,250
90	130	60	50	115	1	1	5	0,072	0,142	488,00	2 440,00	GE90E	GE90E-2RS	98	124	1	1	2,720
100	150	70	55	130	1	1	7	0,085	0,165	607,00	3 030,00	GE100E	GE100E-2RS	109	144	1	1	4,400
110	160	70	55	140	1	1	6	0,085	0,165	654,00	3 270,00	GE110E	GE110E-2RS	121	154	1	1	4,800
120	180	85	70	160	1	1	6	0,085	0,165	950,00	4 750,00	GE120E	GE120E-2RS	135	174	1	1	8,250
140	210	90	70	180	1	1	7	0,085	0,165	1 070,00	5 350,00	GE140E	GE140E-2RS	155	204	1	1	11,000
160	230	105	80	200	1	1	8	0,1	0,192	1 360,00	6 800,00	GE160E	GE160E-2RS	170	224	1	1	14,000
180	260	105	80	225	1,1	1,1	6	0,1	0,192	1 530,00	7 650,00	GE180E	GE180E-2RS	198	253	1	1	18,500
200	290	130	100	250	1,1	1,1	7	0,1	0,192	2 120,00	10 600,00	GE200E	GE200E-2RS	212	283	1	1	28,000

