

SPHERICAL PLAIN BEARINGS

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 6124/1.

DESIGNATION

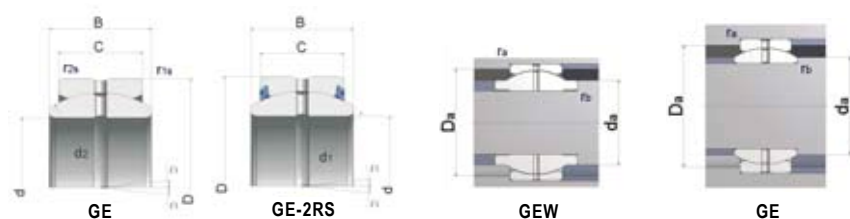
Designation of standard spherical bearings is specified in the dimension tables and consists of type designation (GE) and dimension (the number specifies the inner diameter in mm) e. g. GE30. Non-standard designation (radial clearance, sealing, dimension differences) are designated according to the standard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

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

RADIAL CLEARANCE

Commonly produced spherical bearings have normal radial clearance which is not indicated. Radial clearance values are specified in the following table:

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DIMENSIONS mm									RADIAL CLEARANCE mm		BASIC LOAD RATING kN		BEARING DESIGNATION		CONNECTING DIMENSIONS				WEIGHT kg
d	D	B	C	d2	r1s min	r2s max	α°	normal						da max.	Da max.	ra max.	rb max.		
								min	max										
15	26	12	9	22	0,6	0,6	8	0,04	0,082	17	85	GE15E	GE15E-2RS	18	23	0,5	0,5	0,025	
20	35	16	12	29	0,6	0,6	9	0,04	0,082	30	146	GE20E	GE20E-2RS	24	31	0,6	0,5	0,061	
25	42	20	16	35,5	0,6	0,6	7	0,05	0,1	48	240	GE25E	GE25E-2RS	29	38	0,6	0,5	0,11	
30	47	22	18	40,7	0,6	0,6	6	0,05	0,1	62	310	GE30E	GE30E-2RS	34	43	0,6	0,5	0,14	
35	55	25	20	47	0,6	1	6	0,05	0,1	80	400	GE35E	GE35E-2RS	39	50	0,8	0,6	0,22	
40	62	28	22	53	0,6	1	7	0,06	0,12	100	500	GE40E	GE40E-2RS	45	57	0,8	0,6	0,3	
45	68	32	25	60	0,6	1	7	0,06	0,12	127	640	GE45E	GE45E-2RS	50	63	0,8	0,6	0,4	
50	75	35	28	66	0,6	1	6	0,06	0,12	156	780	GE50E	GE50E-2RS	56	70	0,8	0,6	0,54	
55	85	40	32	74	0,6	1	7	0,06	0,12	190	950	GE55E	GE55E-2RS	62	80	1	0,8	0,71	
60	90	44	36	80	1	1	6	0,06	0,12	245	1220	GE60E	GE60E-2RS	66	84	1	0,8	1,05	
70	105	49	44	92	1	1	6	0,072	0,142	313	1560	GE70E	GE70E-2RS	77	99	1	0,8	1,55	
80	120	55	45	105	1	1	6	0,072	0,142	400	2000	GE80E	GE80E-2RS	89	114	1	0,8	2,31	
90	130	60	50	115	1	1	5	0,072	0,142	488	2440	GE90E	GE90-2RS	98	124	1	1	2,75	
100	150	70	55	130	1	1	7	0,085	0,165	607	3030	GE100E	GE100E-2RS	109	144	1	1	4,45	
110	160	70	55	140	1	1	6	0,085	0,165	654	3270	GE110E	GE110E-2RS	121	154	1	1	4,82	
120	180	85	70	160	1	1	6	0,085	0,165	950	4750	GE120E	GE120E-2RS	135	174	1	1	8,05	
140	210	90	70	180	1	1	7	0,085	0,165	1070	5350	GE140E	GE140E-2RS	155	204	1	1	11,02	
160	230	105	80	200	1	1	8	0,1	0,192	1360	6800	GE160E	GE160E-2RS	170	224	1	1	14,01	
180	260	105	80	225	1,1	1,1	6	0,1	0,192	1530	7650	GE180E	GE180E2RS	198	253	1	1	18,65	
200	290	130	100	250	1,1	1,1	7	0,1	0,192	2120	10600	GE200E	GE200-2RS	212	283	1	1	28,03	

