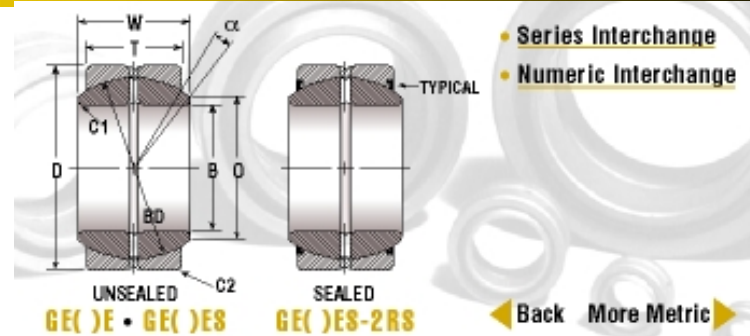




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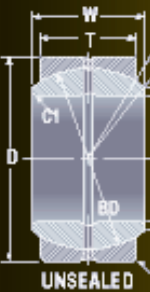
Spherical Plain Bearings:

- inch series
- ◀ **metric series**
- interchange tables
- engineering



LOAD SERIES STANDARD DUTY METRIC UNSEALED & SEALED

Ball Bore Diam. B		Part No RFQ per item		Outside Diam (1) D		Ball Width W		Race Width T		Ball Diam BD	Tilt Angle (2) α	Shldr Diam O	Shaft Fillet C1	Hsng Fillet C2	Radial Loads (3)	
Nom MM	Tol	With Seals	With Seals add:	Nom	Tol	Nom	Tol	Nom	Tol	Ref	Deg	Ref	Max	Max	Static	Dyn
4	-.008	GE4E	—	12	-.008	5	-.120	3	-.240	8	16	5.5	.3	.3	2,296	458
5	-.008	GE5E	—	14	-.008	6	-.120	4	-.240	10	13	6.6	.3	.3	3,826	766
6	-.008	GE6E	—	14	-.008	6	-.120	4	-.240	10	13	7.5	.3	.3	3,824	767
8	-.008	GE8E	—	16	-.008	8	-.120	5	-.240	13	15	9.6	.3	.3	9,189	1,239
10	-.008	GE10E	—	19	-.009	9	-.120	6	-.240	16	12	11.7	.3	.3	9,115	1,835
12	-.008	GE12E	—	22	-.009	10	-.120	7	-.240	18	10	13.8	.3	.3	12,156	2,431
15	-.008	GE15ES	-2RS	26	-.009	12	-.120	9	-.240	22	8	16.9	.3	.3	19,128	3,829
17	-.008	GE17ES	-2RS	30	-.009	14	-.120	10	-.240	25	10	19.0	.3	.3	23,852	4,773
20	-.010	GE20ES	-2RS	35	-.011	16	-.120	12	-.240	29	9	22.1	.3	.3	32,857	6,759
25	-.010	GE25ES	-2RS	42	-.011	20	-.120	16	-.240	35.5	7	28.2	.6	.6	54,003	10,804
30	-.010	GE30ES	-2RS	47	-.011	22	-.120	18	-.240	40.7	6	33.3	.6	.6	69,751	13,951
35	-.012	GE35ES	-2RS	55	-.013	25	-.120	20	-.300	47	6	38.5	.6	1.0	90,008	18,009
40	-.012	GE40ES	-2RS	62	-.013	28	-.120	22	-.300	53	7	43.6	.6	1.0	112,507	22,501
45	-.012	GE45ES	-2RS	68	-.013	32	-.120	25	-.300	60	7	49.4	.6	1.0	144,009	28,578
50	-.012	GE50ES	-2RS	75	-.013	35	-.120	28	-.300	66	6	54.6	.6	1.0	175,509	35,109
60	-.015	GE60ES	-2RS	90	-.015	44	-.150	36	-.400	80	6	66.4	1.0	1.0	274,509	55,128
70	-.015	GE70ES	-2RS	105	-.015	49	-.150	40	-.400	92	6	76.7	1.0	1.0	351,007	70,876
80	-.015	GE80ES	-2RS	120	-.015	55	-.150	45	-.400	105	6	87.1	1.0	1.0	450,005	90,008
90	-.020	GE90ES	-2RS	130	-.018	60	-.200	50	-.500	115	5	97.4	1.0	1.0	551,257	110,254
100	-.020	GE100ES	-2RS	150	-.018	70	-.200	55	-.500	130	7	107.8	1.0	1.0	686,257	137,259



UNSEALED



SEALED

110	-.020	GE110ES	-2RS	160	-.025	70	-.200	55	-.500	140	6	118.0	1.0	1.0	731,259	147,379
120	-.020	GE120ES	-2RS	180	-.025	85	-.200	70	-.500	160	6	129.5	1.0	1.0	1,068,756	213,753
140	-.025	GE140ES	-2RS	210	-.030	90	-.250	70	-.600	180	7	149.0	1.0	1.0	1,215,008	243,008
160	-.025	GE160ES	-2RS	230	-.030	105	-.250	80	-.600	200	8	169.5	1.0	1.0	1,530,009	308,256
180	-.025	GE180ES	-2RS	260	-.035	105	-.250	80	-.700	225	6	191.0	1.0	1.0	1,721,256	344,251
200	-.030	GE200ES	-2RS	290	-.035	130	-.300	100	-.700	250	7	212.5	1.0	1.0	2,385,004	477,008
220	-.030	GE220ES	-2RS	320	-.040	135	-.300	100	-.800	275	-	232.5	1.0	1.0	2,610,005	522,008
Nom MM	Tol	With Seals	With Seals add:	Nom	Tol	Nom	Tol	Nom	Tol	Ref	Deg	Ref	Max	Max	Static	Dyn
Ball Bore Diam. B	Part No RFQ per item			Outside Diam (1) D	Ball Width W	Race Width T	Ball Diam BD	Tilt Angle (2) α	Shldr Diam O	Shaft Fillet C1	Hsng Fillet C2	Radial Loads (3)				

- (1) All tolerances in this catalog are before the outer races are fractured and before application of dry film lubricant
- (2) Seals may reduce tilt angle
- (3) Ultimate loads for the bearings in this catalog are approximately 1.5 times the catalog load ratings

Type E suffix only denotes no lubrication groove or oil holes.
All dimensions are metric.

GENERAL SERIES INTERCHANGE • LOAD SERIES STANDARD DUTY METRIC UNSEALED & SEALED

LOAD SERIES METRIC		NATIONAL	R.B.C.	SKF	TORRINGTON	ELGES	IKO
Standard Duty	No Lube Groove or Oil Holes	GE () E	-	GE () E	-	GE () DO	GE () E
	Unsealed	GE () ES	MB ()	GE () ES	() FS ()	GE () DO	GE () ES
	Sealed	GE () ES-2RS	MB () -SS	GE () ES-2RS	() FS () -TT	GE () DO-2RS	GE () ES-2RS

- For numeric bore size conversion between manufacturers see numerical interchange table.



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