

BA LL BEARING HOUSED UNITS

WIDE-INNER-RING BALL BEARINGS • STANDARD SERIES • GRA-RR, GRA-RRB

GRA-RR, GRA-RRB RELUBRICATABLE TYPES

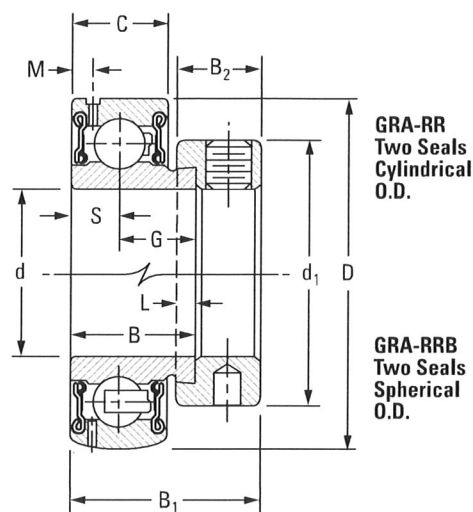
- GRA-RR-series bearings are the same as the RA-RR series and have a provision for relubrication.
- GRA-RR series have cylindrical outside diameters.
- GRA-RRB have spherical outside diameters

Suggested shaft tolerances:

- 1/2 in. – 1 15/16 in., nominal to -0.13 mm, -0.0005 in.;
2 in. – 2 3/16 in., nominal to -0.025 mm, -0.0010 in.

To order, specify bearing number followed by "+ COL".

Example: GRA100RRB + COL.



Bearing No.		Collar No.	Basic Outer-Ring Size	Shaft Dia.	O.D.	Ring Widths		Extended								Brg. and Collar Wt.	Static Load Rating	Extended Dynamic Load Rating
Cylindrical O.D.	Spherical O.D.					Inner	Outer	S	G	L	d ₁	B ₂	M	B ₁				
				d	D	B	C	S	G	L	d ₁	B ₂	M	B ₁	kg	lbs.	C ₀	C _E
				in. mm	mm in.	mm in.	mm in.	mm in.	mm in.	mm in.	mm in.	mm in.	mm in.	mm in.	kg	lbs.	N lbs.	N lbs.
GRA008RR	GRA008RRB	S1008K	203	1/2											0.154	0.34		
—	GRA009RRB	S1009K		9/16	40	19.05	13	6.50	12.55	4.0	28.6	13.5	2.72	28.6	0.145	0.32	4700	10600
GRA010RR	GRA010RRB	S1010K		5/8	1.5748	0.750	0.512 ⁽¹⁾	0.256	0.494	5/32	1 1/8	1 1/32	0.107	1 1/8	0.127	0.28	1060	2360
GRAE17RR	GRAE17RRB	SE17K		17											0.127	0.28		
GRA012RR	GRA012RRB	S1012K	204	3/4	47	21.44	15	7.49	13.92	4.0	33.3	13.5	3.05	31.0	0.132	0.29	6200	14300
GRAE20RR	GRAE20RRB	SE20K		20	1.8504	0.844	0.591 ⁽²⁾	0.295	0.548	5/32	1 5/16	1 1/32	0.120	1 7/32	0.132	0.29	1400	3200
—	GRA013RRB	S1013K		13/16											0.231	0.51		
GRA014RR	GRA014RRB	S1014K		7/8	52	21.44	15	7.49	13.92	4.0	38.1	13.5	3.61	31.0	0.213	0.47	7700	15800
—	GRA015RRB	S1015K	205	15/16	2.0472	0.844	0.591	0.295	0.548	5/32	1 1/2	1 1/32	0.142	1 7/32	0.200	0.44	1730	3550
GRA100RR	GRA100RRB	S1100K		1											0.186	0.41		
GRAE25RR	GRAE25RRB	SE25K		25											0.186	0.41		
GRA101RR	GRA101RRB	S1101K		1 1/16											0.349	0.77		
GRA102RR	GRA102RRB	S1102K	206	1 1/8	62	23.83	18	8.99	14.81	4.0	44.1	15.9	4.17	35.7	0.327	0.72	11100	21800
GRA103RR	GRA103RRB	S1103K		1 3/16	2.4409	0.938	0.709	0.354	0.583	5/32	1 47/64	5/8	0.164	1 13/32	0.318	0.70	2500	4900
GRA103RR2	GRA103RRB2	S1103K3		1 1/4											0.295	0.65		
GRAE30RR	GRAE30RRB	SE30K		30											0.318	0.70		
GRA104RR	GRA104RRB	S1104K	207	1 1/4											0.562	1.24		
—	GRA105RRB	S1105K		1 5/16	72	25.40	19	9.50	15.90	4.0	54.0	17.1	3.68	38.9	0.540	1.19	15100	28500
—	GRA106RRB	S1106K		1 3/8	2.8346	1.000	0.748	0.374	0.626	5/32	2 1/8	43/64	0.145	1 17/32	0.513	1.13	3400	6400
—	GRA107RRB	S1107K		1 7/16											0.476	1.05		
GRAE35RR	GRAE35RRB	SE35K		35											0.513	1.13		

⁽¹⁾Spherical O.D. outer-ring width is 12 mm (0.472 in.).

⁽²⁾Spherical O.D. outer-ring width is 14 mm (0.551 in.).

⁽³⁾Spherical O.D. outer-ring width is 21 mm (0.827 in.).

NOTE: Bore tolerance is nominal to +0.013 mm, +0.0005 in.

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