



R SERIES



The PEER R series, starting with the 1/4 inch bore, is available up to 1 1/2 inches. The Conrad construction of the R series enables these bearings to take a thrust load as well as a radial load. The well designed ball compliment and selection of retainers permit use of this series in high speed motor applications. This series is produced open, shielded or sealed. Shield and sealed bearings are made slightly wider as shown in the dimension table. Stainless steel 440C material is available upon request. Radial clearance is selected in accordance with applications ranging from C2 -C0-C3-C4 fits.

Units: Inches
Metric

Part Number	Bore d	Tolerance +.0000 to minus	OD D	Tolerance +.0000 to minus	Width - B			* fillet radius r	Basic Load Ratings lbf N		Weight lb Kg	Limiting speed (rpm)	
					Open inch	Sealed/ Shielded inch	Tolerance +.0000 to minus		Dynamic Cr	Static Cor		oil	grease
R2	1/8	.0003	3/8	.00030	.1562	.1562	.0050	.005	144	50	0.003	58,000	49,000
R2A	1/8	.0003	.3750	.00030	.1719	.1719	.0050	.12	641	222	0.001		
R3	3/16	.0003	1/2	.00030	.1562	.1960	.0050	.005	258	89	0.001	51,000	42,000
R3A	3/16	.0003	.5000	.00030	.1875	.1960	.0050	.12	1,148	396	0.003		
	3/16	.0003	1/2	.00030	.1960	.1960	.0050	.005	295	110	0.006	48,000	41,000
	3/16	.0003	.5000	.00030	.1875	.1960	.0050	.12	1,312	492	0.003		
R4	1/4	.0003	5/8	.00030	.1960	.1960	.0050	.005	295	110	0.005	48,000	41,000
R4A	1/4	.0003	.6250	.00035	.2500	.2812	.0050	.12	1,312	489	0.002		
R6	3/8	.0003	7/8	.00035	.2188	.2812	.0050	.006	362	150	0.010	43,000	36,000
R8	1/2	.0003	1 1/8	.00035	.2188	.2812	.0050	.16	1,601	667	0.002		
	1/2	.0003	1.1250	.00035	.2500	.3125	.0050	.006	527	199	0.020	40,000	34,000
	.5000	.0003	1.1250	.00035	.2500	.3125	.0050	.16	2,340	885	0.009		
R10	5/8	.0003	1 3/8	.00045	.2812	.3438	.0050	.006	754	317	0.024	37,000	31,000
R12	3/4	.0004	1.3750	.00045	.3125	.4375	.0050	.16	3,350	1,410	0.011		
R14	7/8	.0004	1 7/8	.00045	.3750	.5000	.0050	.006	1150	540	0.039	30,000	26,000
R16	1	.0004	2	.00050	.3750	.5000	.0050	.16	5,116	2,402	0.018		
	1.0000	.0004	2.0000	.00050	.3750	.5000	.0050	.31	10,098	5,827	0.085		
R18	1 1/8	.0004	2 1/8	.00050	.3750	.5000	.0050	.012	1340	728	0.081	24,000	20,000
R20	1 1/4	.0005	2.1250	.00050	.3750	.5000	.0050	.31	5,961	3,238	0.037		
R22	1 3/8	.0005	2 1/2	.00050	.4375	.5625	.0050	.012	2110	1120	0.104	21,000	18,000
	1.3750	.0005	2.5000	.00050	.4375	.5625	.0050	.31	9,386	4,982	0.047		
R24	1 1/2	.0005	2 5/8	.00050	.4375	.5625	.0050	.012	2270	1310	0.157	18,000	15,000
	1.5000	.0005	2.6250	.00050	.4375	.5625	.0050	.31	10,098	5,827	0.071		
								.012	2270	1310	0.187	16,000	14,000
								.31	10,098	5,827	0.085		
								.012	2980	1860	0.198	15,000	13,000
								.31	13,256	8,274	0.090		
								.012	2980	1860	0.209	14,000	12,000
								.31	13,256	8,274	0.095		
								.012	3590	2320	0.232	12,500	11,000
								.31	15,970	10,320	0.105		
								.012	3770	2590	0.309	11,500	10,000
								.31	16,770	11,521	0.140		

*Maximum fillet which corner radius of bearing will clear.

