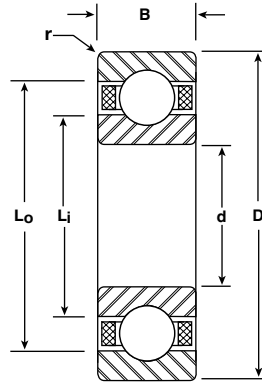




Metric Series

Radial

Bore Sizes 10-25 mm



BASIC P/N	BORE d		O.D. D		WIDTH B		LAND DIAMETER (REFERENCE)		FILLET RADIUS r	BALL COMPLEMENT		LOAD RATINGS LBS	
	mm	INCH	mm	INCH	mm	INCH	Li	Lo		NO.	SIZE INCH	DYN. C	STATIC Co
							INCH	INCH					
R-1900	10	.3937	22	.8661	6	.2362	.570	.734	.012	9	1/8	580	280
R-100	10	.3937	26	1.0236	8	.3150	.583	.837	.012	7	3/16	1000	440
R-200	10	.3937	30	1.1811	9	.3543	.656	.919	.024	7	7/32	1300	580
R-300	10	.3937	35	1.3780	11	.4331	.717	1.055	.024	6	9/32	1800	770
R-1901	12	.4724	24	.9449	6	.2362	.629	.800	.012	9	9/64	730	350
R-101	12	.4724	28	1.1024	8	.3150	.670	.900	.012	7	3/16	1000	460
R-201	12	.4724	32	1.2598	10	.3937	.725	1.007	.024	7	15/64	1500	670
R-301	12	.4724	37	1.4567	12	.4724	.777	1.153	.039	6	5/16	2150	930
R-1902	15	.5906	28	1.1024	7	.2756	.735	.972	.012	10	5/32	940	490
R-102	15	.5906	32	1.2598	9	.3543	.803	1.048	.012	9	3/16	1250	630
R-202	15	.5906	35	1.3780	11	.4331	.815	1.153	.024	7	1/4	1700	790
R-302	15	.5906	42	1.6535	13	.5118	.934	1.310	.039	7	5/16	2500	1200
R-1903	17	.6693	30	1.1811	7	.2756	.810	1.032	.012	11	5/32	1000	550
R-103	17	.6693	35	1.3780	10	.3937	.910	1.140	.012	10	3/16	1300	710
R-203	17	.6693	40	1.5748	12	.4724	.952	1.292	.024	8	17/64	2100	1050
R-303	17	.6693	47	1.8504	14	.5512	1.017	1.495	.039	7	11/32	3000	1450
R-1804	20	.7874	32	1.2598	7	.2756	.948	1.098	.012	14	1/8	750	480
R-1904	20	.7874	37	1.4567	9	.3543	.995	1.262	.012	9	7/32	1600	860
R-104	20	.7874	42	1.6535	12	.4724	1.075	1.375	.024	8	1/4	1900	990
R-204	20	.7874	47	1.8504	14	.5512	1.131	1.507	.039	8	5/16	2850	1450
R-304	20	.7874	52	2.0472	15	.5906	1.192	1.643	.043	7	3/8	3550	1750
R-1805	25	.9843	37	1.4567	7	.2756	1.145	1.295	.012	17	1/8	820	600
R-1905	25	.9843	42	1.6535	9	.3543	1.195	1.460	.012	11	7/32	1850	1100
R-105	25	.9843	47	1.8504	12	.4724	1.267	1.567	.024	10	1/4	2200	1300
R-205	25	.9843	52	2.0472	15	.5906	1.328	1.703	.039	9	5/16	3100	1750
R-305	25	.9843	62	2.4409	17	.6693	1.450	1.976	.039	7	15/32	4750	2450

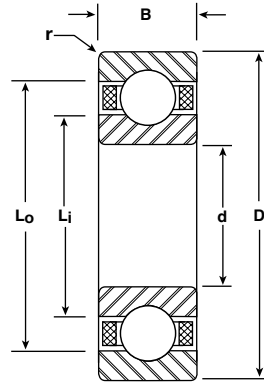
Notes:

1. Metric series radial ball bearings are typically manufactured from 52100 chrome steel to ABEC 3, 5 and 7 tolerances per ABMA Standard 20.
2. Fillet Radius (r) is the maximum shaft or housing fillet radius that bearing corners will clear.

Metric Series

Radial

Bore Sizes 30-55 mm



BASIC P/N	BORE d		O.D. D		WIDTH B		LAND DIAMETER (REFERENCE)		FILLET RADIUS r	BALL COMPLEMENT		LOAD RATINGS LBS	
	mm	INCH	mm	INCH	mm	INCH	Li	Lo		NO.	SIZE	DYN. C	STATIC Co
							INCH	INCH	INCH				
R-1806	30	1.1811	42	1.6535	7	.2756	1.342	1.492	.012	20	1/8	880	700
R-1906	30	1.1811	47	1.8504	9	.3543	1.384	1.649	.012	13	7/32	2050	1350
R-106	30	1.1811	55	2.1654	13	.5118	1.504	1.842	.039	11	9/32	2900	1850
R-206	30	1.1811	62	2.4409	16	.6299	1.585	2.037	.039	9	3/8	4350	2500
R-306	30	1.1811	72	2.8346	19	.7480	1.707	2.308	.043	8	1/2	6600	3700
R-1807	35	1.3780	47	1.8504	7	.2756	1.539	1.689	.012	22	1/8	910	760
R-1907	35	1.3780	55	2.1654	10	.3937	1.665	1.942	.024	13	1/4	2600	1750
R-107	35	1.3780	62	2.4409	14	.5512	1.721	2.097	.039	11	5/16	3550	2300
R-207	35	1.3780	72	2.8346	17	.6693	1.824	2.388	.043	8	15/32	5950	3400
R-307	35	1.3780	80	3.1496	21	.8268	1.925	2.602	.059	8	9/16	8200	4700
R-1808	40	1.5748	52	2.0472	7	.2756	1.735	1.886	.012	25	1/8	970	860
R-1908	40	1.5748	62	2.4409	12	.4724	1.857	2.158	.024	14	1/4	2550	1800
R-108	40	1.5748	68	2.6772	15	.5906	1.900	2.351	.039	10	3/8	4650	2950
R-208	40	1.5748	80	3.1496	18	.7087	2.061	2.663	.043	9	1/2	7250	4450
R-308	40	1.5748	90	3.5433	23	.9055	2.183	2.935	.059	8	5/8	9900	5850
R-1809	45	1.7717	58	2.2835	7	.2756	1.953	2.103	.012	28	1/8	1000	950
R-1909	45	1.7717	68	2.6772	12	.4724	2.055	2.393	.024	15	9/32	3450	2650
R-109	45	1.7717	75	2.9528	16	.6299	2.136	2.587	.039	12	3/8	5200	3600
R-209	45	1.7717	85	3.3465	19	.7480	2.277	2.841	.043	9	1/2	7275	4525
R-309	45	1.7717	100	3.9370	25	.9843	2.440	3.268	.059	8	11/16	11800	7100
R-1810	50	1.9685	65	2.5591	7	.2756	2.169	2.357	.012	25	5/32	1400	1295
R-1910	50	1.9685	72	2.8346	12	.4724	2.232	2.570	.024	16	9/32	3600	2850
R-110	50	1.9685	80	3.1496	16	.6299	2.333	2.784	.039	13	3/8	5450	4000
R-210	50	1.9685	90	3.5433	20	.7874	2.455	3.056	.043	10	1/2	7800	5200
R-310	50	1.9685	110	4.3307	27	1.0630	2.698	3.600	.079	8	3/4	13800	8500
R-1811	55	2.1654	72	2.8346	9	.3543	2.387	2.612	.012	23	3/16	1950	1850
R-1911	55	2.1654	80	3.1496	13	.5118	2.469	2.845	.039	16	5/16	4350	3550
R-111	55	2.1654	90	3.5433	18	.7087	2.591	3.117	.043	12	7/16	6900	4950
R-211	55	2.1654	100	3.9370	21	.8268	2.712	3.389	.059	10	9/16	9650	6550
R-311	55	2.1654	120	4.7244	29	1.1417	2.956	3.933	.079	8	13/16	16000	10000

Notes:

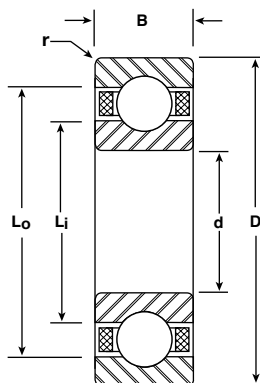
1. Metric series radial ball bearings are typically manufactured from 52100 chrome steel to ABEC 3, 5 and 7 tolerances per ABMA Standard 20.
2. Fillet Radius (r) is the maximum shaft or housing fillet radius that bearing corners will clear.



Metric Series

Radial

Bore Sizes 60-85 mm



BASIC P/N	BORE d		O.D. D		WIDTH B		LAND DIAMETER (REFERENCE)		FILLET RADIUS r	BALL COMPLEMENT		LOAD RATINGS LBS	
	mm	INCH	mm	INCH	mm	INCH	Li	Lo		NO.	SIZE INCH	DYN. C	STATIC Co
							INCH	INCH					
R-1812	60	2.3622	78	3.0709	10	.3937	2.584	2.848	.012	22	7/32	2600	2400
R-1912	60	2.3622	85	3.3465	13	.5118	2.666	3.042	.039	17	5/16	4500	3800
R-112	60	2.3622	95	3.7402	18	.7087	2.788	3.314	.043	12	7/16	6800	5050
R-212	60	2.3622	110	4.3307	22	.8661	2.970	3.722	.059	10	5/8	11700	8050
R-312	60	2.3622	130	5.1181	31	1.2205	3.213	4.266	.083	8	7/8	18300	11100
R-1813	65	2.5591	85	3.3465	10	.3937	2.821	3.084	.024	23	7/32	2600	2500
R-1913	65	2.5591	90	3.5433	13	.5118	2.863	3.239	.039	18	5/16	4600	4100
R-113	65	2.5591	100	3.9370	18	.7087	2.985	3.511	.043	13	7/16	7100	5550
R-213	65	2.5591	120	4.7244	23	.9055	3.228	4.055	.059	10	11/16	13900	9700
R-313	65	2.5591	140	5.5118	33	1.2992	3.471	4.599	.083	8	15/16	20700	13500
R-1814	70	2.7559	90	3.5433	10	.3937	3.018	3.281	.024	25	7/32	2700	2700
R-1914	70	2.7559	100	3.9370	16	.6299	3.139	3.553	.039	17	11/32	5250	4650
R-114	70	2.7559	110	4.3307	20	.7874	3.242	3.844	.043	13	1/2	9150	7200
R-214	70	2.7559	125	4.9213	24	.9449	3.424	4.252	.059	10	11/16	13900	9850
R-314	70	2.7559	150	5.9055	35	1.3780	3.729	4.932	.083	8	1	23300	15400
R-1815	75	2.9528	95	3.7402	10	.3937	3.214	3.478	.024	26	7/32	2750	2800
R-1915	75	2.9528	105	4.1339	16	.6299	3.317	3.768	.039	17	3/8	5550	6200
R-115	75	2.9528	115	4.5276	20	.7874	3.440	4.041	.043	14	1/2	7800	9500
R-215	75	2.9528	130	5.1181	25	.9843	3.621	4.449	.059	10	11/16	10000	13900
R-315	75	2.9528	160	6.2992	37	1.4567	3.986	5.265	.083	8	1-1/16	17400	26000
R-1816	80	3.1496	100	3.9370	10	.3937	3.411	3.674	.024	28	7/32	2850	3000
R-1916	80	3.1496	110	4.3307	16	.6299	3.514	3.965	.039	17	3/8	5600	6100
R-116	80	3.1496	125	4.9213	22	.8661	3.697	4.373	.043	13	9/16	9100	11300
R-216	80	3.1496	140	5.5118	26	1.0236	3.879	4.782	.079	10	3/4	11900	16200
R-316	80	3.1496	170	6.6929	39	1.5354	4.244	5.598	.083	8	1-1/8	19500	28800
R-1817	85	3.3465	110	4.3307	13	.5118	3.669	4.007	.039	24	9/32	4200	4300
R-1917	85	3.3465	120	4.7244	18	.7087	3.772	4.298	.043	16	7/16	7800	6950
R-117	85	3.3465	130	5.1181	22	.8661	3.893	4.570	.043	13	9/16	11000	9050
R-217	85	3.3465	150	5.9055	28	1.1024	4.137	5.114	.079	10	13/16	18400	13600
R-317	85	3.3465	180	7.0866	41	1.6142	4.539	5.893	.118	8	1-1/8	28500	19600

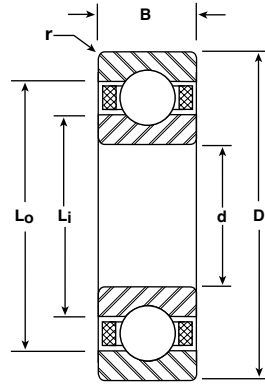
Notes:

1. Metric series radial ball bearings are typically manufactured from 52100 chrome steel to ABEC 3, 5 and 7 tolerances per ABMA Standard 20.
2. Fillet Radius (r) is the maximum shaft or housing fillet radius that bearing corners will clear.

Metric Series

Radial

Bore Sizes 90-130 mm



BASIC P/N	BORE d		O.D. D		WIDTH B		LAND DIAMETER (REFERENCE)		FILLET RADIUS r	BALL COMPLEMENT		LOAD RATINGS LBS	
	mm	INCH	mm	INCH	mm	INCH	Li	Lo		NO.	SIZE	DYN. C	STATIC Co
							INCH	INCH	INCH				
R-1818	90	3.5433	115	4.5276	13	.5118	3.866	4.204	.039	25	9/32	4250	4450
R-1918	90	3.5433	125	4.9213	18	.7087	3.969	4.495	.043	17	7/16	8000	7450
R-118	90	3.5433	140	5.5118	24	.9449	4.151	4.903	.059	13	5/8	13300	11100
R-218	90	3.5433	160	6.2992	30	1.1811	4.394	5.447	.079	10	7/8	21000	15700
R-318	90	3.5433	190	7.4803	43	1.6929	4.797	6.226	.118	8	1-3/16	31400	21800
R-1819	95	3.7402	120	4.7244	13	.5118	4.063	4.401	.039	26	9/32	4350	4650
R-1919	95	3.7402	130	5.1181	18	.7087	4.165	4.692	.043	18	7/16	8400	8100
R-119	95	3.7402	145	5.7087	24	.9449	4.348	5.100	.059	13	5/8	13500	11400
R-219	95	3.7402	170	6.6929	32	1.2598	4.652	5.780	.083	10	15/16	24300	18400
R-319	95	3.7402	200	7.8740	45	1.7717	5.055	6.559	.118	8	1-1/4	35100	24700
R-1820	100	3.9370	125	4.9213	13	.5118	4.259	4.598	.039	27	9/32	4450	4850
R-1920	100	3.9370	140	5.5118	20	.7874	4.423	5.025	.043	17	1/2	10500	9900
R-120	100	3.9370	150	5.9055	24	.9449	4.545	5.297	.059	14	5/8	14100	12400
R-220	100	3.9370	180	7.0866	34	1.3386	4.910	6.113	.083	10	1	27300	20900
R-1821	105	4.1339	130	5.1181	13	.5118	4.456	4.795	.039	28	9/32	4500	5000
R-1921	105	4.1339	145	5.7087	20	.7874	4.620	5.222	.043	17	1/2	10400	9950
R-121	105	4.1339	160	6.2992	26	1.0236	4.802	5.630	.079	13	11/16	16100	13800
R-221	105	4.1339	190	7.4803	36	1.4173	5.167	6.446	.083	10	1-1/16	30500	23500
R-1822	110	4.3307	140	5.5118	16	.6299	4.714	5.128	.039	25	11/32	6200	6800
R-1922	110	4.3307	150	5.9055	20	.7874	4.817	5.418	.043	18	1/2	10700	10600
R-122	110	4.3307	170	6.6929	28	1.1024	5.060	5.963	.079	13	3/4	18900	16300
R-222	110	4.3307	200	7.8740	38	1.4961	5.425	6.779	.079	10	1-1/8	33900	26300
R-1824	120	4.7244	150	5.9055	16	.6299	5.108	5.521	.039	27	11/32	6450	7300
R-1924	120	4.7244	165	6.4961	22	.8661	5.273	5.947	.043	17	9/16	12800	12700
R-124	120	4.7244	180	7.0866	28	1.1024	5.454	6.356	.079	14	3/4	19700	17900
R-224	120	4.7244	215	8.4646	40	1.5748	5.917	7.271	.079	10	1-1/8	33700	26900
R-1826	130	5.1181	165	6.4961	18	.7087	5.563	6.052	.043	25	13/32	8400	9500
R-1926	130	5.1181	180	7.0866	24	.9449	5.726	6.478	.059	17	5/8	15600	15600
R-126	130	5.1181	200	7.8740	33	1.2992	5.971	7.023	.079	13	7/8	25000	22300
R-226	130	5.1181	230	9.0551	40	1.5748	6.372	7.801	.098	10	1-3/16	37200	30100

Notes:

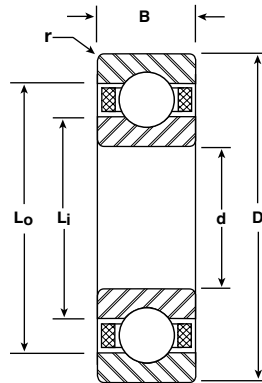
- Metric series radial ball bearings are typically manufactured from 52100 chrome steel to ABEC 3, 5 and 7 tolerances per ABMA Standard 20.
- Fillet Radius (r) is the maximum shaft or housing fillet radius that bearing corners will clear.



Metric Series

Radial

Bore Sizes 140-200 mm



BASIC P/N	BORE d		O.D. D		WIDTH B		LAND DIAMETER (REFERENCE)		FILLET RADIUS r	BALL COMPLEMENT		LOAD RATINGS LBS	
	mm	INCH	mm	INCH	mm	INCH	L _i	L _o		NO.	SIZE INCH	DYN. C	STATIC C _o
							INCH	INCH					
R-1828	140	5.5118	175	6.8898	18	.7087	5.956	6.445	.043	26	13/32	8500	9800
R-1928	140	5.5118	190	7.4803	24	.9449	5.923	6.675	.059	18	5/8	16000	16500
R-128	140	5.5118	210	8.2677	33	1.2992	6.363	7.416	.079	14	7/8	26000	24300
R-228	140	5.5118	250	9.8425	42	1.6535	6.887	8.467	.098	10	1-5/16	44600	36600
R-1830	150	5.9055	190	7.4803	20	.7874	6.430	6.956	.043	26	7/16	9700	11400
R-1930	150	5.9055	210	8.2677	28	1.1024	6.635	7.538	.079	16	3/4	20900	21000
R-130	150	5.9055	225	8.8583	35	1.3780	6.855	7.908	.083	15	7/8	26900	36400
R-1832	160	6.2992	200	7.8740	20	.7874	6.823	7.350	.043	28	7/16	10000	12200
R-1932	160	6.2992	220	8.6614	28	1.1024	7.029	7.932	.079	17	3/4	21500	22500
R-132	160	6.2992	240	9.4488	38	1.4961	7.272	8.476	.083	14	1	33100	31800
R-1834	170	6.6929	215	8.4646	22	.8661	7.278	7.880	.043	26	1/2	12400	14900
R-1934	170	6.6929	230	9.0551	28	1.1024	7.423	8.325	.079	18	3/4	22000	24000
R-134	170	6.6929	260	10.2360	42	1.6535	7.788	9.141	.083	13	1-1/8	39200	37000
R-1836	180	7.0866	225	8.8583	22	.8661	7.672	8.273	.043	28	1/2	12800	16000
R-1936	180	7.0866	250	9.8425	33	1.2992	7.938	8.991	.079	17	7/8	28700	30500
R-136	180	7.0866	280	11.0240	46	1.8110	8.378	9.732	.083	14	1-1/8	40800	40400
R-1838	190	7.4803	240	9.4488	24	.9449	8.126	8.803	.059	26	9/16	15400	18900
R-1938	190	7.4803	260	10.2360	33	1.2992	8.332	9.385	.079	17	7/8	28300	30700
R-138	190	7.4803	290	11.4173	46	1.8110	8.734	10.163	.083	14	1-3/16	45500	44400
R-1840	200	7.8740	250	9.8425	24	.9449	8.520	9.197	.059	27	9/16	15600	19500
R-1940	200	7.8740	280	11.0240	38	1.4961	8.847	10.050	.083	16	1	35200	37400

Notes:

1. Metric series radial ball bearings are typically manufactured from 52100 chrome steel to ABEC 3, 5 and 7 tolerances per ABMA Standard 20.
2. Fillet Radius (r) is the maximum shaft or housing fillet radius that bearing corners will clear.