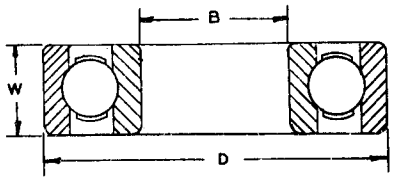
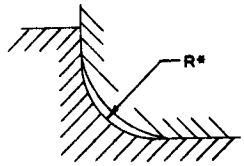
MASTER BOOK OF ORDNANCE ENGINEERING STANDARDS

(SEE NOTES AT BOTTOM OF SHEET)

BEARING, BALL, TYPE BC

RADIAL, SINGLE ROW, NON-LOADING GROOVE ASSEMBLY





BORE -B- Nominal Diameter Mm.	Inches	Toler. +.0000	OUTSIDE DIAMETER -D- Nominal Diameter Mm.	Inches	Toler. +.0000	INDIVIDUAL RING WIDTH -W- Nominal Width Mm.	Inches	Toler. +.000	FILLET RADIUS* -R- Maximum Mm.	In.	ECCENTRICITY TOLERANCE Inch, Max. Inner Ring	Outer Ring		ORDNANCE PART NUMBER
						LIGHT SERIES								
4	.1575	-.0003	16	.6299	-.0004	5	.1969	-.005	.4	.016	.0003	.0006		700073
5	.1969	-.0003	19	.7480	-.0004	6	.2362	-.005	.4	.016	.0003	.0006		700014
6	.2362	-.0003	19	.7480	-.0004	6	.2362	-.005	.4	.016	.0003	.0006		700074
7	.2756	-.0003	22	.8661	-.0004	7	.2756	-.005	.4	.016	.0003	.0006		700019
8	.3150	-.0003	22	.8661	-.0004	7	.2756	-.005	.4	.016	.0003	.0006		700021
9	.3543	-.0003	26	1.0236	-.0004	8	.3150	-.005	.6	.025	.0003	.0006		700025
10	.3937	-.0003	30	1.1811	-.0004	9	.3543	-.005	.6	.025	.0004	.0006		700075
12	.4724	-.0003	32	1.2598	-.0005	10	.3937	-.005	.6	.025	.0004	.0008		700032
15	.5906	-.0003	35	1.3780	-.0005	11	.4331	-.005	.6	.025	.0004	.0008		700061
17	.6693	-.0003	40	1.5748	-.0005	12	.4724	-.005	1.0	.04	.0004	.0008		700076
20	.7874	-.0004	47	1.8504	-.0005	14	.5512	-.005	1.0	.04	.0005	.0008		700077
25	.9843	-.0004	52	2.0472	-.0005	15	.5906	-.005	1.0	.04	.0005	.0010		700078
30	1.1811	-.0004	62	2.4409	-.0005	16	.6299	-.005	1.0	.04	.0005	.0010		700079
35	1.3780	-.0005	72	2.8346	-.0005	17	.6693	-.005	1.0	.04	.0006	.0010		700080
40	1.5748	-.0005	80	3.1496	-.0005	18	.7087	-.005	1.0	.04	.0006	.0010		700081
45	1.7717	-.0005	85	3.3465	-.0006	19	.7480	-.005	1.0	.04	.0006	.0014		700082
50	1.9685	-.0005	90	3.5433	-.0006	20	.7874	-.005	1.0	.04	.0006	.0014		700083
55	2.1654	-.0006	100	3.9370	-.0006	21	.8268	-.005	1.5	.06	.0008	.0014		700084
60	2.3622	-.0006	110	4.3307	-.0006	22	.8661	-.005	1.5	.06	.0008	.0014		700085
65	2.5591	-.0006	120	4.7244	-.0006	23	.9055	-.005	1.5	.06	.0008	.0014		700086
70	2.7559	-.0006	125	4.9213	-.0008	24	.9449	-.005	1.5	.06	.0008	.0016		700087
75	2.9528	-.0006	130	5.1181	-.0008	25	.9843	-.005	1.5	.06	.0008	.0016		700088
80	3.1496	-.0006	140	5.5118	-.0008	26	1.0236	-.005	2.0	.08	.0008	.0016		700089
85	3.3465	-.0008	150	5.9055	-.0008	28	1.1024	-.005	2.0	.08	.0010	.0016		700090
90	3.5433	-.0008	160	6.2992	-.0010	30	1.1811	-.005	2.0	.08	.0010	.0018		700091
95	3.7402	-.0008	170	6.6929	-.0010	32	1.2598	-.005	2.0	.08	.0010	.0018		700092
100	3.9370	-.0008	180	7.0866	-.0010	34	1.3386	-.005	2.0	.08	.0010	.0018		700093
105	4.1339	-.0008	190	7.4803	-.0012	36	1.4173	-.005	2.0	.08	.0010	.0020		700094
110	4.3307	-.0008	200	7.8740	-.0012	38	1.4961	-.005	2.0	.08	.0010	.0020		700095
120	4.7244	-.0008	215	8.4646	-.0012	40	1.5748	-.005	2.0	.08	.0010	.0020		700096
130	5.1181	-.0010	230	9.0551	-.0012	40	1.5748	-.005	2.5	.10	.0012	.0020		700097
140	5.5118	-.0010	250	9.8425	-.0012	42	1.6535	-.005	2.5	.10	.0012	.0020		700098
150	5.9055	-.0010	270	10.6299	-.0014	45	1.7717	-.005	2.5	.10	.0012	.0024		700099
160	6.2992	-.0010	290	11.4173	-.0014	48	1.8898	-.005	2.5	.10	.0012	.0024		700100
170	6.6929	-.0010	310	12.2047	-.0014	52	2.0472	-.005	3.0	.12	.0012	.0024		700101
180	7.0866	-.0010	320	12.5984	-.0016	52	2.0472	-.005	3.0	.12	.0012	.0028		700102
190	7.4803	-.0012	340	13.3858	-.0016	55	2.1654	-.010	3.0	.12	.0016	.0028		700103
200	7.8740	-.0012	360	14.1732	-.0016	58	2.2835	-.010	3.0	.12	.0016	.0028		700104
220	8.6614	-.0012	400	15.7480	-.0016	65	2.5591	-.010	3.0	.12	.0016	.0028		700105
240	9.4488	-.0012	440	17.3228	-.0018	72	2.8346	-.010	3.0	.12	.0016	.0032		700106
260	10.2362	-.0014	480	18.8976	-.0018	80	3.1496	-.010	4.0	.16	.0020	.0032		700107
280	11.0236	-.0014	500	19.6850	-.0018	80	3.1496	-.010	4.0	.16	.0020	.0032		700108
300	11.8110	-.0014	540	21.2598	-.0020	85	3.3465	-.010	4.0	.16	.0020	.0040		700109
320	12.5984	-.0016	580	22.8346	-.0020	92	3.6220	-.016	4.0	.16	.0024	.0040		700110

MATERIAL: HIGH GRADE ALLOY STEEL. DIMENSIONS IN INCHES AND MILLIMETERS (MM.)

TOLERANCES ARE IN ACCORDANCE WITH ANNULAR BEARING ENGINEERS COMMITTEE (A.B.E.C.) STANDARD TOLERANCE SPECIFICATION "1". OTHER REQUIREMENTS SHALL CONFORM WITH FEDERAL SPECIFICATION FF-B-171 "BEARING, BALL", (LATEST REVISION).

NOTES: *THE CORNER RADIUS OR CHAMFER ON BEARINGS MUST CLEAR THE MAXIMUM FILLET RADIUS GIVEN IN THE TABLE.

NOTES:—For design purposes, use Ordnance Engineering Design Standards, CAAX series. The items contained on this page are for identification, storage, issue and procurement purposes, and shall not be used for design purposes except when Ordnance Engineering Design Standards are not applicable.

Before using any item on this page for any purpose, consult Ordnance Engineering Design Standards Cross Reference publication for recommended supersessions.

For procurement of items on this sheet, G.M. (General Motors) materials and finishes shall be converted to Ordnance materials and finishes. See drawing number MB1.103A.