

**REV.
A****AS27641**

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AEROSPACE STANDARD

BEARING, BALL, AIRFRAME, ANTI-FRICTION,
INTERMEDIATE DUTY

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SHEET 1 OF 3

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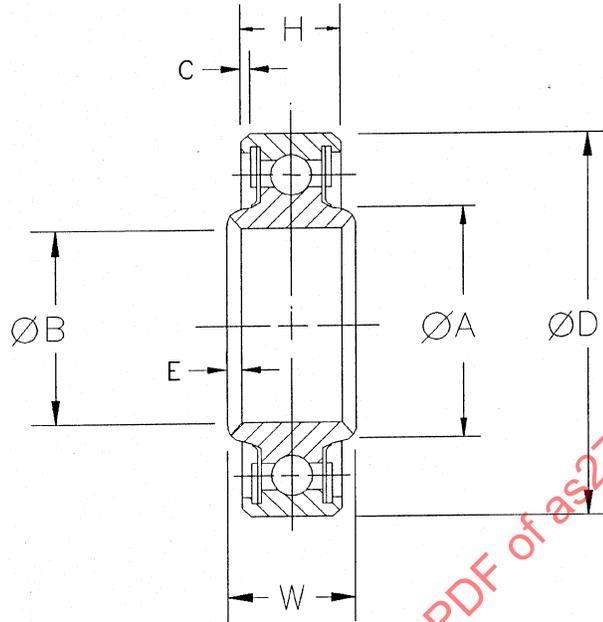


TABLE I. DIMENSIONS AND LOADS

MS DASH NO.	ØB	ØD	W	H	ØA	E	C	RADIAL LOAD LIMIT RATING LBS	THRUST LOAD LIMIT RATING LBS	5/ RADIAL LOAD RATING (LBS.) FOR AVERAGE LIFE OF 10,000 COMPLETE 90° CYCLES		WEIGHT POUNDS (APPROX)	MAXIMUM STARTING TORQUE (INCH-OZ)
	BORE 2/	OUTSIDE DIAMETER 1/ 2/	WIDTH INNER RING 1/	WIDTH OUTER RING 1/	SHOULDER DIAMETER INNER RING (APPROX)	4/ INNER RING CORNER CHAMFER	3/ OUTER RING CORNER CHAMFER			CASE I	CASE II		
	+0.000 -0.005	+0.000 -0.005	+0.000 -0.005	+0.000 -0.005	+0.015 -0.000	+0.015 -0.000							
-3	.1900	.6250	.297	.234	.297	.005	.016	1560	700	1500	1250	.01	1.0
-4	.2500	.7500	.281	.219	.380			1880	900	1690	1450	.02	1.5
-5	.3125	.8125	.297	.234	.415			2190	1000	1820	1600	.02	1.5
-6	.3750	.8750	.313	.250	.495			2500	1100	1920	1710	.03	2.0
-8	.5000	1.1250	.375	.313	.616			3910	1700	2870	2550	.05	2.5
-10	.6250	1.3750	.406	.344	.768	.015	.032	6700	3000	4980	4360	.08	3.0
-12	.7500	1.6250	.437	.375	.919			8790	3900	5980	5320	.13	3.0
-16	1.0000	2.0000	.500	.438	1.241			11900	5200	7070	6400	.22	4.0
-20	1.2500	2.2500	.500	.438	1.478			13800	6100	7400	6810	.26	5.0

- 1/ DIMENSIONS TO BE MET AFTER PLATING.
- 2/ OUT-OF-ROUND TOLERANCES: BORE: +.0002, -.0007; OUTER DIA: +.0005, -.0010.
- 3/ 45° CHAMFER OR A RADIUS GIVING APPROXIMATELY THE SAME GRIP FOR STAKING THE BEARING IN THE HOUSING WILL BE ACCEPTABLE.
- 4/ 45° CHAMFER OR A RADIUS GIVING APPROXIMATELY THE SAME FILLET CLEARANCE WILL BE ACCEPTABLE.
- 5/ CASE I = LOAD FIXED WITH RESPECT TO OUTER RING.
CASE II = LOAD FIXED WITH RESPECT TO INNER RING.
- 6/ THESE RATINGS ARE FOR OPERATION UP TO 250°F. FOR OPERATION UP TO 350°F, THE RATINGS SHALL BE REDUCED BY 20%.

(F) DENOTES CHANGES