

SAE-AS27643

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Custodians:

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(Project 3110-1087)

Review Activities:

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AEROSPACE STANDARD

BEARING, BALL, AIRFRAME,
ANTI-FRICTION, SELF-ALIGNING,
DOUBLE ROW, HEAVY DUTY

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SHEET 1 OF 3

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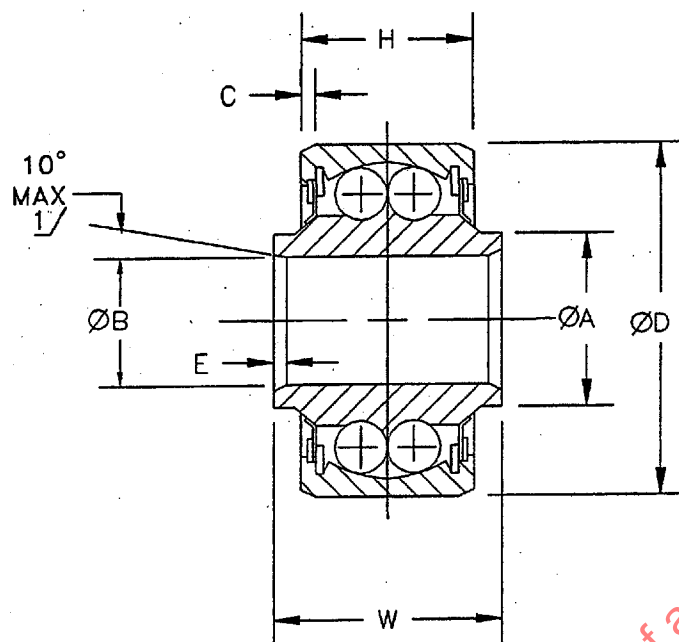


TABLE I. DIMENSIONS AND LOADS

MS DASH NO.	øB	øD	W	H	øA	C	E	LIMIT LOAD RATING		AXIAL INTERNAL CLEARANCE (MAX)	Z/ RADIAL LOAD RATING (LBS.) FOR AVERAGE LIFE OF 10,000 COMPLETE 90° CYCLES		WEIGHT POUNDS (APPROX)
	BORE	OUTSIDE DIAMETER	WIDTH INNER RING	WIDTH OUTER RING	SHOULDER DIAMETER INNER RING (APPROX)	5/ OUTER RING CORNER CHAMFER	4/ INNER RING CORNER CHAMFER				6/ CASE I	6/ CASE II	
						+0.000	+0.000						
	-0.005	-0.005	-0.005	-0.005	-0.005	-0.000	-0.000	RADIAL (LB)	THRUST (LB)				
	3/ 2/ 3/	2/ 3/	2/ 2/	2/ 2/	2/ 2/	2/ 2/	2/ 2/	2/ 2/	2/ 2/				
-3	.1900	.7774	.500	.392	.304	.022	.005	1420	200	.0055	1420	1220	.04
-4	.2500	.9014	.687	.464	.430	.032	.015	1780	300	.006	1780	1600	.06
-5	.3125	1.2500	.812	.656	.515	.044	.015	3740	600	.007	3740	3300	.16
-6	.3750	1.4375	.937	.750	.564	.056	.015	5100	800	.008	4980	4370	.24
-8	.5000	1.6875	1.000	.812	.775	.088	.015	7120	1000	.010	6340	5570	.36
-10	.6250	1.9375	1.125	.937	.869	.120	.015	9000	1300	.012	7780	6860	.53

(TABLE I, CONTINUED)

MS DASH NO.	MAXIMUM STARTING TORQUE (INCH-OZ)	MINIMUM TORQUE TO DISLODGE SEAL (IN/LB)
-3	1	8
-4	1	12
-5	2	28
-6	2	45
-8	3	60
-10	3	78

- 1/ THESE BEARINGS ARE INTERNAL SELF-ALIGNING FOR 10° IN EITHER DIRECTION.
 2/ DIMENSIONS TO BE MET AFTER PLATING.
 3/ OUT-OF-ROUND TOLERANCES: BORE: +.0002, -.0007; OUTER DIA: +.0005, -.0010.
 4/ 45° CHAMFER OR A RADIUS GIVING APPROXIMATELY THE SAME FILLET CLEARANCE WILL BE ACCEPTABLE.
 5/ 45° CHAMFER OR A RADIUS GIVING APPROXIMATELY THE SAME GRIP FOR STAKING THE BEARING IN THE HOUSING WILL BE ACCEPTABLE.
 6/ CASE I - LOAD FIXED WITH RESPECT TO OUTER RING.
 CASE II - LOAD FIXED WITH RESPECT TO INNER RING.
 7/ THESE RATINGS ARE FOR OPERATION UP TO 250°F. FOR OPERATION UP TO 350°F, THE RATINGS SHALL BE REDUCED BY 20%.

(F) DENOTES CHANGE