

SAE-AS27643

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Custodians:

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(Project 3110-1087)

Review Activities:

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PREPARED BY AIRFRAME CONTROL BEARINGS GROUP (ACBG)



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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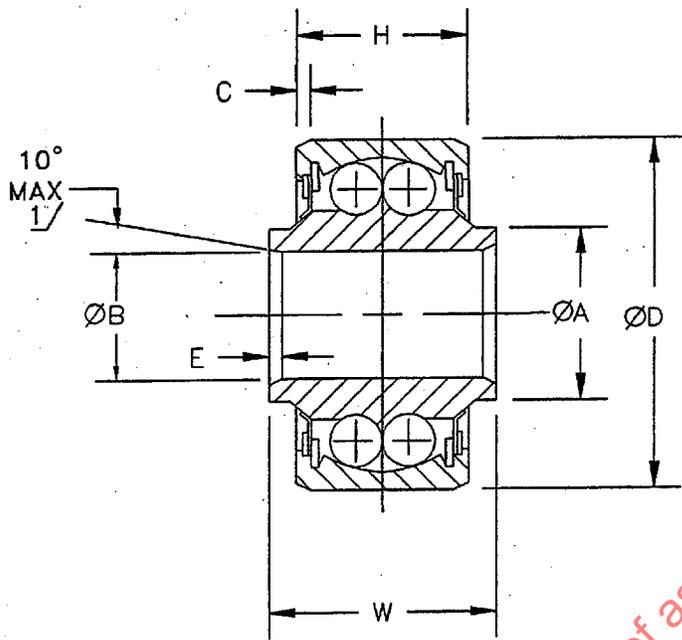


TABLE I. DIMENSIONS AND LOADS

MS DASH NO.	ØB		ØD		W		H		ØA		C		E		LIMIT LOAD RATING	AXIAL INTERNAL CLEARANCE (MAX)	Z/		WEIGHT POUNDS (APPROX)
	BORE		OUTSIDE DIAMETER		WIDTH INNER RING		WIDTH OUTER RING		SHOULDER DIAMETER		5/ OUTER RING CORNER CHAMFER		4/ INNER RING CORNER CHAMFER				RADIAL LOAD RATING FOR AVERAGE LIFE OF 10,000 COMPLETE 90° CYCLES		
	+	-	+	-	+	-	+	-	+	-	+	-	+	-			(LB)	(LB)	
-3	.1900	.7774	.500	.392	.304	.022	.005	.1420	.200	.0055	1420	1220	.04						
-4	.2500	.9014	.687	.464	.430	.032	.1780	.300	.006	1780	1600	.06							
-5	.3125	1.2500	.812	.656	.515	.044	.3740	.600	.015	.03740	.3300	.16							
-6	.3750	1.4375	.937	.750	.564	.044	.5100	.800	.015	.05100	.4370	.24							
-8	.5000	1.6875	1.000	.812	.775	.044	.7120	1.000	.015	.07120	.5570	.36							
-10	.6250	1.9375	1.125	.937	.869	.044	.9000	1.300	.015	.09000	.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.
- Z/ 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