

SAE-AS27644

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(Project 3110-1088)

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AEROSPACE STANDARD

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

AS27644
SHEET 1 OF 3

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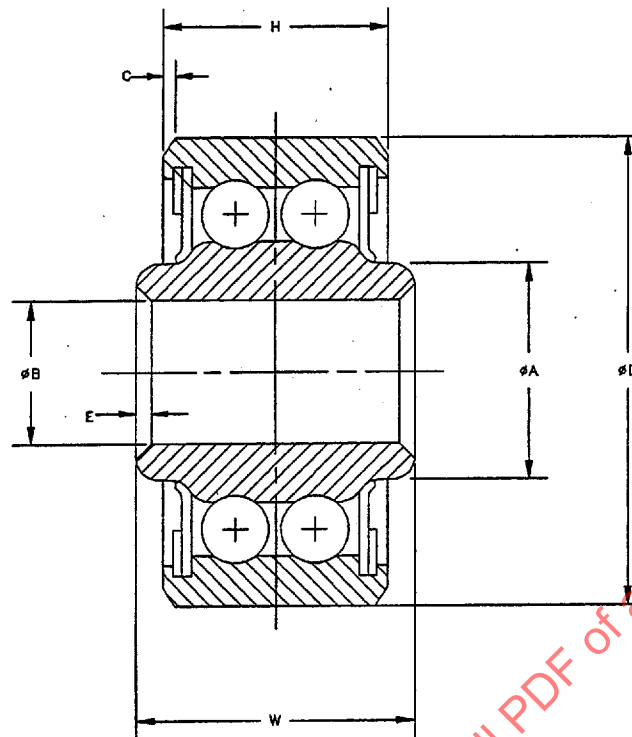


TABLE 1. DIMENSIONS AND LOADS

D

MS DASH NO.	ϕB	ϕD	W	H	ϕA	E	C	AXIAL CLEAR- ANCE	RADIAL LIMIT LOAD RATING LBS	THRUST LIMIT LOAD RATING LBS	6/ RADIAL LOAD RATING (LBS.) FOR AVERAGE LIFE OF 10,000 COMPLETE 90° CYCLES		WEIGHT POUNDS (APPROX)	MAXIMUM STARTING TORQUE (INCH-OZ)
	BORE	OUTSIDE DIAMETER	WIDTH INNER RING	WIDTH OUTER RING	SHOULDER DIAMETER INNER RING (APPROX)	4/ INNER RING CORNER CHAMFER	3/ OUTER RING CORNER CHAMFER							
	2/ 1/	2/ 1/	1/ 1/	1/ 1/							CASE I	CASE II		
	+0.0000 -0.0005	+0.0000 -0.0005	+0.000 -0.005	+0.000 -0.005		+0.015 -0.000	+0.015 -0.000							
-3	.1900	.7774	.495	.473	.302	.005	.018	.005	8/ 2950	1700	2950	2830	.04	1
-4	.2500	.9014	.620	.491	.410				8/ 5370	1800	3550	3020	.06	1
-5	.3125	1.2500	.745	.687	.469	.015	.032	.006	7/ 11000	4000	7380	6250	.17	1
-6	.3750	1.4375	.870	.794	.551				7/ 15760	5300	9690	8120	.26	2
-8	.5000	1.6875	.932	.856	.735		.044	.007	23600	7800	14100	11600	.38	3
-10	.6250	1.9375	.995	.920	.890				28400	9400	15300	13100	.53	3

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%.

7/ BOLTS OF 180,000 PSI TENSILE STRENGTH ARE REQUIRED TO DEVELOP THE RADIAL LIMIT LOAD SHOWN.

8/ BOLTS OF 160,000 PSI TENSILE STRENGTH ARE REQUIRED TO DEVELOP THE RADIAL LIMIT LOAD SHOWN.

D DENOTES CHANGES

AEROSPACE STANDARD

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

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