

REV.
B

AS21428

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODISS SPECIFIED IN THE SOLICITATION: SAE AS7949.

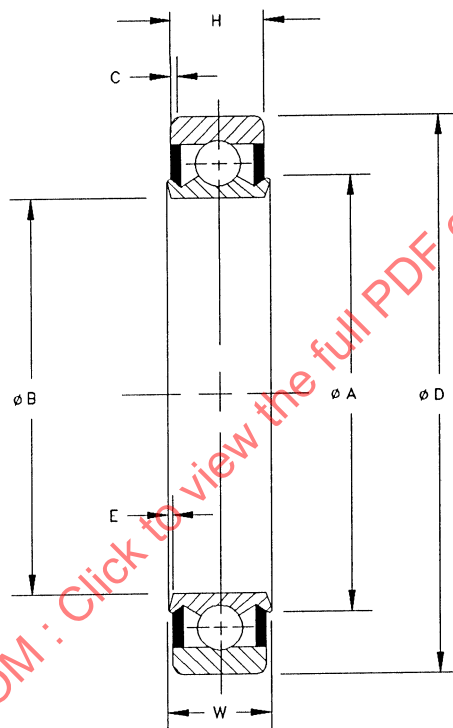


FIGURE 1

PREPARED BY AIRFRAME CONTROL BEARINGS GROUP (ACBG)

SAE The Engineering Society
For Advancing Mobility
Land Sea Air and Space®
INTERNATIONAL
400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD
(R) BEARING, BALL, AIRFRAME,
ANTI-FRICTION, EXTRA LIGHT DUTY,
PRECISION

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TABLE 1 - DIMENSIONS AND LOADS																
MS DASH NO.	BEARING PART NO. REF. ONLY	BORE TOLERANCE	øD		OUTSIDE DIAMETER TOLERANCE	W	H	øA	E & C		WEIGHT POUNDS (APPROX)	RADIAL LIMIT LOAD RATING LB	THRUST LIMIT LOAD RATING LB	5/ RADIAL LOAD RATING (LB) FOR AVERAGE LIFE OF 10,000 COMPLETE 90° CYCLES	7/ MAXIMUM STARTING TORQUE (IN-OZ)	
			1/	2/					3/	4/						
-38	MB538DD		1.0625					.777			.03	3280	1500	CASE I 1990	CASE II 1820	2
-39	MB539DD		1.1875					.895			.04	3750	1700	2050	1900	2
-40	MB540DD	+ .0000	1.3125		+ .0000			1.016			.05	4220	1900	2110	1970	3
-41	MB541DD	- .0005	1.5000		- .0005			1.216			.06	5000	2200	2170	2020	4
-42	MB542DD		1.7500			.2810	.250	1.451	.015		.09	5950	2700	2220	2130	4
-43	MB543DD		2.0000					1.702			.10	6880	3200	2260	2180	5
-44	MB544DD		2.2500					1.970			.11	7960	3600	2300	2220	6
-45	MB545DD	+ .0000	2.6250		+ .0000			2.286			.15	9220	4000	2340	2260	7
-46	MB546DD	- .0008	2.8750		- .0007			2.527			.17	10150	4400	2360	2280	8

1/ DIMENSIONS TO BE MET AFTER PLATING.

2/ OUT-OF-ROUND TOLERANCES:

BORE:

FOR -38 THRU -43: +.0003, -.0008

FOR -44 THRU -46: +.0003, -.0011

OUTER DIAMETER:

FOR -38 THRU -43: +.0005, -.0010

FOR -44 THRU -46: +.0005, -.0012

3/ A RADIUS GIVING APPROXIMATELY THE SAME GRIP FOR STAKING THE BEARING AND MAINTAINING DIMENSION C IS ACCEPTABLE IN LIEU OF THE 45° FLAT SURFACE CHAMFER.

4/ A RADIUS GIVING APPROXIMATELY THE SAME FILLET CLEARANCE AND MAINTAINING DIMENSION E IS ACCEPTABLE IN LIEU OF THE 45° FLAT SURFACE CHAMFER.

5/ CASE I = LOAD IS FIXED WITH RESPECT TO OUTER RING.

CASE II = LOAD IS FIXED WITH RESPECT TO THE 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/ SPECIFIED LIMITS ARE FOR BEARINGS LUBRICATED WITH MIL-PRF-81322 GREASE. FOR BEARINGS LUBRICATED WITH MIL-PRF-23827 GREASE, THE TORQUE LIMIT SHALL BE THE SPECIFIED VALUE IN THE TABLE MULTIPLIED BY 1.2.

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