

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

AS21443

Submitted for recognition as an American National Standard

Form Approved
OMB No. 0704-0188

NOTICE

THIS DOCUMENT HAS BEEN TAKEN DIRECTLY FROM U.S. MILITARY SPECIFICATION MS21443B AND CONTAINS ONLY MINOR EDITORIAL AND FORMAT CHANGES REQUIRED TO BRING IT INTO CONFORMANCE WITH THE PUBLISHING REQUIREMENTS OF SAE TECHNICAL STANDARDS. THE INITIAL RELEASE OF THIS DOCUMENT IS INTENDED TO REPLACE MS21443B. ANY PART NUMBERS ESTABLISHED BY THE ORIGINAL SPECIFICATION REMAIN UNCHANGED.

THE ORIGINAL MILITARY SPECIFICATION WAS ADOPTED AS AN SAE STANDARD UNDER THE PROVISIONS OF THE SAE TECHNICAL STANDARDS BOARD (TSB) RULES AND REGULATIONS (TSB 001) PERTAINING TO ACCELERATED ADOPTION OF GOVERNMENT SPECIFICATIONS AND STANDARDS. TSB RULES PROVIDE FOR (A) THE PUBLICATION OF PORTIONS OF UNREVISED GOVERNMENT SPECIFICATIONS AND STANDARDS WITHOUT CONSENSUS VOTING AT THE SAE COMMITTEE LEVEL, AND (B) THE USE OF THE EXISTING GOVERNMENT SPECIFICATION OR STANDARD FORMAT.

UNDER DEPARTMENT OF DEFENSE POLICIES AND PROCEDURES, ANY QUALIFICATION REQUIREMENTS AND ASSOCIATED QUALIFIED PRODUCTS LISTS ARE MANDATORY FOR DOD CONTRACTS. ANY REQUIREMENTS RELATING TO QUALIFIED PRODUCTS LISTS (QPL'S) HAS NOT BEEN ADOPTED BY SAE AND IS NOT PART OF THIS TECHNICAL REPORT.

SAENORM.COM : Click to view the full PDF of as21443

ISSUED 1998-04

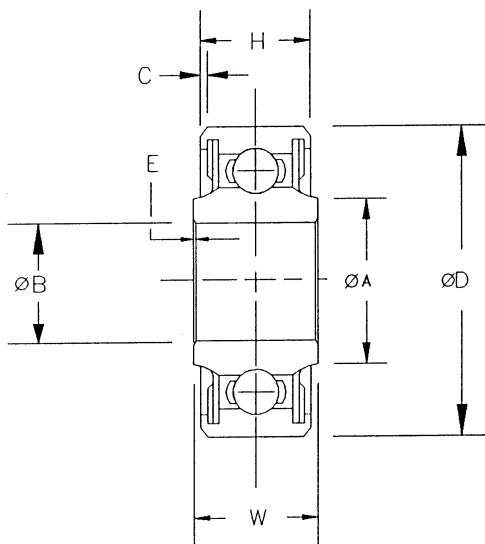
PREPARED BY AIRFRAME CONTROL BEARINGS GROUP (ACBG)

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

AEROSPACE STANDARD

BEARING, BALL, AIRFRAME,
ANTI-FRICTION, PULLEY

AS21443
SHEET 1 OF 3



MS DASH NO.	øB	øD	W	H	øA	E	C	RADIAL LIMIT LOAD RATING LBS.	THRUST LIMIT LOAD RATING LBS.	5/ 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)	CORNER CHAMFER X 45						
						4/	3/					
						INNER RING BORE	OUTER RING O.D.					
						7/ 8/	2/			1/ 2/	1/	
-3A	.1900	.6250	.297	.234	.297	.005	.016	705	385	705	705	.01
-3B	.1900	.7774	.297	.270	.332	.005	.024	1090	600	1090	1090	.02
-4A	.2500	.7500	.438	.312	.372	.005	.016	1090	600	1090	1090	.03
-4B	.2500	.8750	.438	.375	.423	.005	.022	1710	800	1710	1710	.04
-4C	.2500	.9014	.484	.335	.390	.005	.034	1710	800	1710	1710	.04
-5A	.3125	.8750	.625	.375	.455	.005	.022	1710	800	1710	1710	.04
-5B	.3125	.9375	.625	.563	.455	.005	.022	3420	1030	3250	2800	.07
-8	.5000	1.6875	.750	.563	.768	.005	.032	11800	5200	9320	7730	.24
-10	.6250	1.1875	.438	.375	.769	.005	.022	2440	1100	2420	2180	.06

1. ALL DIMENSIONS TO BE MET AFTER PLATING.
2. OUT-OF-ROUND TOLERANCES: BORE: +.0002, -.0007; OUTER DIA: +.0005, -.0010.
3. A RADIUS GIVING APPROXIMATELY THE SAME GRIP FOR STAKING THE BEARING IN THE HOUSING WILL BE ACCEPTABLE.
4. 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. -5B ONLY - DOUBLE ROW.
8. -8 ONLY - FULL TYPE - NO RETAINER.

(B) DENOTES CHANGES