

REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THE SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DOCUMENT DESCRIBED IN THE SOLICITATION MIL-B-7949

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.

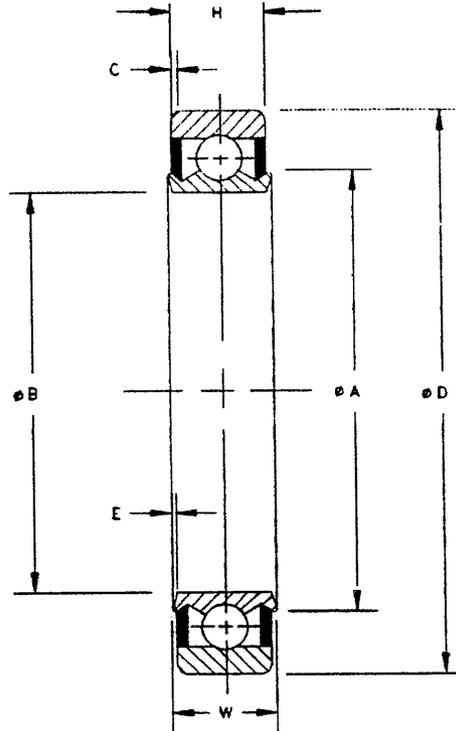


TABLE I. DIMENSIONS AND LOADS

MS DASH NO.	ØB 2/ BORE	BORE TOLERANCE	ØD 1/ 2/ OUTSIDE DIAMETER		OUTSIDE DIAMETER TOLERANCE	W		H	ØA SHOULDER DIAMETER INNER RING APPROX.	E & C 3/ 4/ CORNER CHAMFER 45°	WEIGHT POUNDS (APPROX)	RADIAL LIMIT LOAD RATING LBS	THRUST LIMIT LOAD RATING LBS	5/ RADIAL LOAD RATING (LBS.) FOR AVERAGE LIFE OF 10,000 COMPLETE 90° CYCLES		6/ MAXIMUM STARTING TORQUE (INCH-OZ)			
			1/ WIDTH INNER RING +.0000 -.0025	2/ WIDTH OUTER RING +.000 -.005		1/ CASE I	2/ CASE II												
-38	.6250	+.0000 -.0005	1.0625	+.0000 -.0005	.2810	.250	.015	.777	.015		.03	3280	1500	1990	1820	2			
-39	.7500		1.1875					.895						.04	3750	1700	2050	1900	2
-40	.8750		1.3125					1.016						.05	4220	1900	2110	1970	3
-41	1.0625		1.5000					1.216						.06	5000	2200	2170	2020	4
-42	1.3125		1.7500					1.451						.09	5950	2700	2220	2130	4
-43	1.5625	2.0000	1.702	.10	6880	3200	2260	2180	5										
-44	1.8125	+.0000	2.2500	+.0000	+.0003, -.0008	+.0003, -.0011	.015	1.970			.11	7960	3600	2300	2220	5			
-45	2.0625	-.0008	2.6250	-.0007				2.286						.15	9220	4000	2340	2260	6
-46	2.3125		2.8750					2.527						.17	10150	4400	2360	2280	6

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%.

Ⓒ DENOTES CHANGES

INCH-POUND

PREPARING ACTIVITY: NAVY-AS
CUSTODIANS: ARMY-AV NAVY-AS
AIR FORCE-99 DLA-
REVIEW ARMY-AR,AT,MI AIR FORCE-84, DLA-IS

MILITARY SPECIFICATION SHEET
TITLE
BEARING, BALL, AIRFRAME,
ANTI-FRICTION, EXTRA LIGHT DUTY,
PRECISION

SPECIFICATION SHEET NUMBER
MS21428 21 JUNE 95
REV C
SUPERSEDING
MS21428B 05 DEC 94
AMSC- N/A FSC 3110

PROJECT NUMBER: 3110-0925

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