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REV. A	Submitted for recognition as an American National Standard		Federal Supply Class 3110
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PREPARED BY AIRFRAME CONTROL BEARINGS GROUP (ACBG)



AEROSPACE STANDARD

BEARING, BALL, AIRFRAME,
ANTI-FRICTION, SELF-ALIGNING,
LIGHT AND HEAVY DUTY

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TABLE I. DIMENSIONS AND LOADS

MS DATA NO.	$\frac{D}{2}$ BORE	$\frac{D}{2}$ OUTER DIAMETER	F	H	$\frac{D}{2}$ INNER DIAMETER	C CONICAL RING CHAMFER	R RADIUS CONICAL RING CHAMFER (APPROX)	T TENSILE LIMIT LOAD RATING LBS	S STRESS FOR AVERAGE LIFE OF 10,000 COMPLETE CYCLES	A ACTUAL TENSILE CLEARANCE (MAX)	W WEIGHT TORSION (APPROX)	M MAXIMUM STARTING TORQUE (INCH-OZ)	M MAXIMUM TORQUE DIAL- READ (IN-LBS)					
														$\frac{D}{2}$ CONICAL RING CHAMFER	$\frac{D}{2}$ CONICAL RING CHAMFER	LBS	PROXIAL LOAD	
																	CASE I	CASE II
-3A	+ .0000	- .0005	+ .0008	+ .0005	- .0005			860	850	825	81	1	4					
-4A	+ .0000	- .0005	+ .0008	+ .0005	- .0005			860	850	825	81	1	4					
-5A	+ .0000	- .0005	+ .0008	+ .0005	- .0005			860	850	825	81	1	4					
-6A	+ .0000	- .0005	+ .0008	+ .0005	- .0005			860	850	825	81	1	4					
-3	+ .0000	- .0005	+ .0008	+ .0005	- .0005			860	850	825	81	1	4					
-4	+ .0000	- .0005	+ .0008	+ .0005	- .0005			860	850	825	81	1	4					
-5	+ .0000	- .0005	+ .0008	+ .0005	- .0005			860	850	825	81	1	4					
-6	+ .0000	- .0005	+ .0008	+ .0005	- .0005			860	850	825	81	1	4					
-7	+ .0000	- .0005	+ .0008	+ .0005	- .0005			860	850	825	81	1	4					
-8	+ .0000	- .0005	+ .0008	+ .0005	- .0005			860	850	825	81	1	4					
-9	+ .0000	- .0005	+ .0008	+ .0005	- .0005			860	850	825	81	1	4					
-10	+ .0000	- .0005	+ .0008	+ .0005	- .0005			860	850	825	81	1	4					

V/ 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 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/ These bearings are self-aligning for 10° in either direction except MS-4A, -5A, and -6A which are self-aligning for 8° in either direction.