This military standard is approved by the Department of Defense and is mandatory on all activities. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

NOTICE.—When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

DD FORM 1 SEP 67 **672-1** (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

P.A. Air Force - 11
Other Cust
Air Force - AV
Navy - AS

PROCUREMENT SPECIFICATION NONE

SUPERSEDES: AN5011

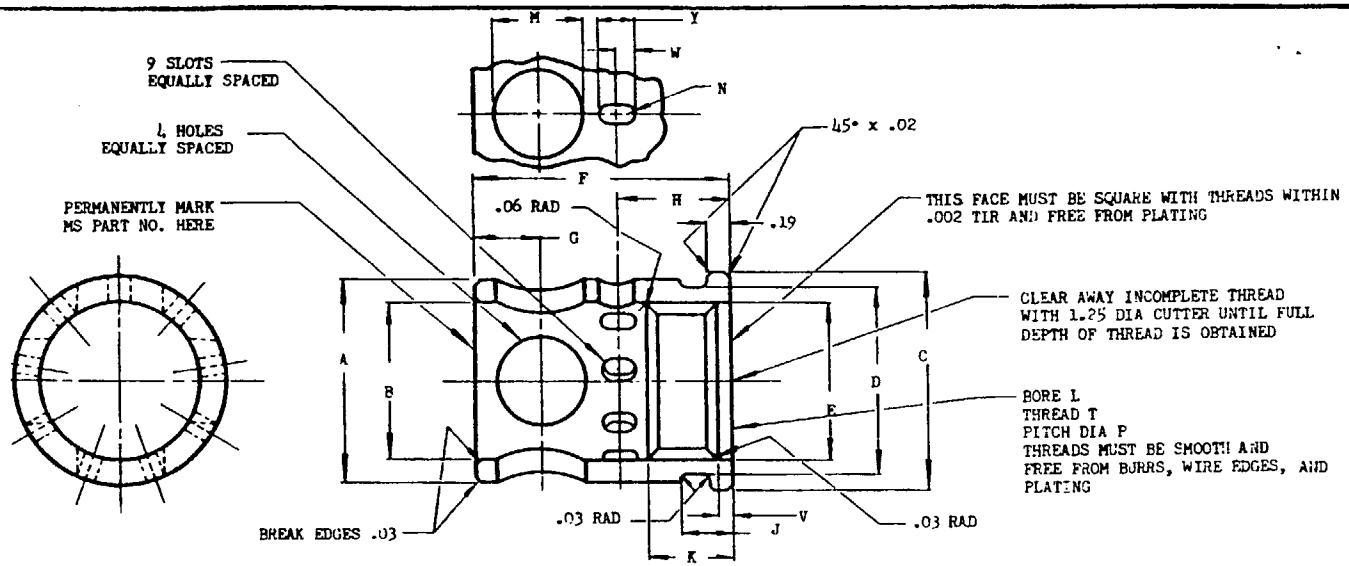
TITLE

NUT, PROPELLER HUB RETAINING
(NON CONTROLLABLE TYPE)

MILITARY STANDARD

MS5011

SHEET 1 OF 1



DASH NO.	A DIA	B DIA	C DIA	D DIA	E DIA	F	G	H	J	K	L DIA		M DIA	N RAD	P DIA		T THREAD	V	W	Y	SHAFT NO.
-7-1/2	1.812	1.406	1.938	1.688	1.812	2.250	.562	1.000	.438	.750	1.288	+.006 -.000	.766	.109	1.3210	.0020 .0000	1.3750-12NF-4	.125	.156	.312	7-1/2
-10	2.219	1.812	2.312	2.062	1.719						1.600			.156	1.6334	.0032 .0000	1.6875-12NS-4		.250	.500	10
-20	2.594	2.125	2.685	2.438	2.094	2.688	.688	1.188		.906	1.976		.891		2.0060		2.0625-12NS-4				20
-30	2.750	2.344	2.938	2.594	2.344	2.562	.594	1.156		.875	2.229	+.005 -.000			2.2580	+.0064 -.0	2.3125-12NS-4				30
-40	3.344	2.938	3.500	3.188	2.844				.469		2.727	+.006 -.000			2.7580		2.8125-12NS-4				40
(c) -50	3.475	3.469	4.188	---	3.531	3.375	.844	1.438	---	1.156	3.352		1.031		3.3 30	+.0067 -.0000	3.4375-12NS-4				50 (a)
-51A	4.47	4.312	5.031	4.688	4.344	3.625		1.688	.562	1.375	4.1147	+.0060 -.0000			4.1610	+.0054 -.0000	4.2500-8UN-..	.156			51A

(a) -50A, -51, AND -51A SHAFT SIZES USE -50 NUT.
(A) MATERIAL: ALUMINUM BRONZE, QQ-C-390A, COPPER ALLOY NO. 955. ALTERNATE MATERIALS: STEELS MIL-S-5000, MIL-S-8503.
FINISH: STEEL, CADMIUM PLATE, QQ-P-416, TYPE II CLASS 2 STEEL TO BE MAGNETICALLY INSPECTED IN ACCORDANCE WITH MIL-I-6868, OR AMS2640.
(A) ROUGHNESS HEIGHT RATING 32 ALL OVER IN ACCORDANCE WITH ANSI B46.1 1978.
HEAT TREATMENT: ALUMINUM BRONZE - TENSILE STRENGTH 90,000 LBS/SQ IN MINIMUM. STEELS: ROCKWELL HARDNESS C-30-34.
BREAK SHARP EDGES .020 UNLESS OTHERWISE SPECIFIED.
DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ±.020, ANGLES ±0°30'.
IDENTIFICATION MARKING TO BE IN ACCORDANCE WITH MIL-STD-130.

ITEM PARTS COVERED BY THIS STANDARD ARE FUNCTIONALLY AND PHYSICALLY INTERCHANGEABLE WITH THOSE PARTS HAVING IDENTICAL DASH NUMBERS OF SUPERSEDED STANDARD AN5011.

FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.
REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

FED. SUP CLASS 1610

APPROVED 5 Sep 61 **REVISED** (A) 29 Apr 81

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