

REVIEWER SYMBOLS:  
ARMY - AR  
AIR FORCE - 82

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NOTE: This drawing was approved by joint action of the Air Force and Navy Departments as the Air Force-Navy standard for this product. The drawing supersedes all antecedent standard drawings for this same product and shall become effective for the procurement of personnel supplies, or for use in new design not later than 6 months after the first date of approval shown.  
AMSC N/A Project No. 5310-2043

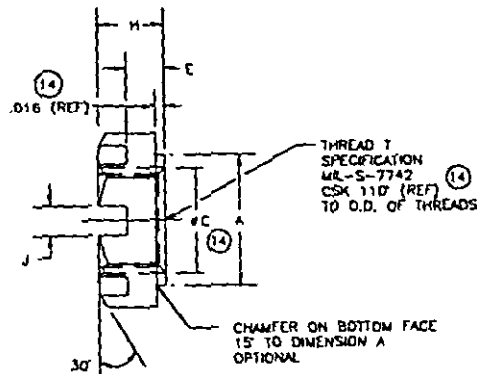
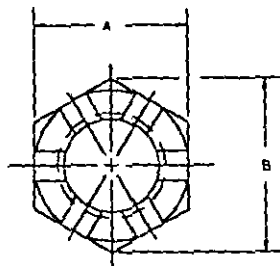


TABLE 1. DIMENSIONS AND TENSILE STRENGTHS

AN PART NO.	THREAD T	ULTIMATE TENSILE STRENGTH MINIMUM POUNDS		A	B (REF)	E ±.015	H	J +.031 - .000
		STEEL	AL ALLOY					
AN320-1	.1360-40UNF-3B	-	-	.313 +.002 - .010	.358	.078	.156	.078
AN320-2	.1640-36UNF-3B	-	-	.344 +.002 - .010	.391	.078	.156	.078
AN320-3	.1900-32UNF-3B	1,105	550	.375 +.002 - .010	.438	.094	.188	.078
AN320-4	.2500-28UNF-3B	2,040	1,015	.438 +.002 - .010	.500	.094	.188	.078
AN320-5	.3125-24UNF-3B	3,250	1,610	.500 +.002 - .010	.578	.094	.188	.078
AN320-6	.3750-24UNF-3B	5,050	2,510	.563 +.002 - .010	.656	.109	.219	.078
AN320-7	.4375-20UNF-3B	6,800	3,375	.625 +.002 - .011	.719	.109	.219	.125
AN320-8	.5000-20UNF-3B	9,250	4,590	.750 +.002 - .012	.875	.141	.250	.125
AN320-9	.5625-18UNF-3B	11,800	5,850	.875 +.002 - .012	1.016	.188	.313	.156
AN320-10	.6250-18UNF-3B	15,050	7,450	1.000 +.002 - .014	1.156	.188	.313	.156
AN320-12	.7500-16UNF-3B	22,000	10,900	1.125 +.002 - .016	1.297	.250	.375	.156
AN320-14	.8750-14UNF-3B	30,000	14,900	1.313 +.002 - .017	1.516	.313	.438	.156
AN320-15	1.0000-12UNF-3B	40,350	20,000	1.500 +.002 - .019	1.734	.375	.500	.156
(14) (b) AN320-16	1.0000-14NF-3B	40,350	20,000	1.500 +.002 - .019	1.734	.375	.500	.156
AN320-18	1.1250-12UNF-3B	50,900	25,250	1.688 +.002 - .021	1.953	.406	.563	.156
AN320-20	1.2500-12UNF-3B	65,100	32,200	1.875 +.002 - .023	2.172	.469	.625	.156

(c) FOR ALUMINUM-ALLOY NUTS LARGER THAN -5 SIZE, TOLERANCES ON DIMENSION "A" MAY CONFORM TO APPLICABLE MATERIAL SPECIFICATION FOR BAR AND ROD.

(14) (b) 1-14 NF NOMINAL THREAD SIZE WAS INACTIVATED FOR NEW DESIGN AFTER 27 MARCH 1967 BUT IS STILL PROCURABLE.

#### REQUIREMENTS:

- (14) 1. MATERIAL: STEEL GRADE C, FOR NOMINAL SIZE .4375 AND LARGER, HEAT TREATED TO ROCKWELL C HARDNESS RANGE 24-32, ALUMINUM ALLOY, OR 300 SERIES CORROSION-RESISTANT STEEL, SEE PROCUREMENT SPECIFICATION.
2. FINISH: STEEL-CADMIUM PLATE IN ACCORDANCE WITH QQ-P-416, TYPE II, CLASS 2. ALUMINUM ALLOY- ANODIZE IN ACCORDANCE WITH MIL-A-8625, TYPE II. CORROSION RESISTANT STEEL- PASSIVATE IN ACCORDANCE WITH QQ-P-35.
- (14) 3. MARKING: MARKING SHALL BE IN ACCORDANCE WITH SAE AS478-2B1.

#### NOTES:

1. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS: ±.010, ANGLES ± 1°.
2. REMOVE ALL BURRS.
- (14) 3. EXAMPLE OF PART NUMBERS: AN320-7 = NUT, STEEL, .4375-20UNF-3B.  
AN32007 = NUT, ALUMINUM ALLOY, .4375-20UNF-3B.  
AN320C7 = NUT, CORROSION-RESISTANT STEEL, .4375-20UNF-3B.
4. ADD "D" IN PLACE OF DASH NUMBER FOR ALUMINUM ALLOY NUTS.  
ADD "C" IN PLACE OF DASH NUMBER FOR CORROSION-RESISTANT STEEL NUTS.
- (14) 5. NUTS MANUFACTURED TO PREVIOUS REVISIONS 11, 12, AND 13 MAY BE FURNISHED FROM SUPPLIERS STOCK UNTIL 20 AUGUST 1998.
- (14) 6. IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS DOCUMENT AND THE REFERENCES CITED HEREIN, THE TEXT OF THIS DOCUMENT SHALL TAKE PRECEDENCE.
- (14) 7. UNLESS OTHERWISE SPECIFIED, ISSUES OF REFERENCED DOCUMENTS ARE THOSE IN EFFECT AT THE TIME OF SOLICITATION.

(14) DENOTES CHANGE(S)

P.A. DIA- IS CUSTODIANS: ARMY- AV NAVY- AS AIR FORCE- 99	AIR FORCE - NAVY AERONAUTICAL STANDARD PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.	AN320
	NUT, PLAIN, CASTELLATED, SHEAR	
PROCUREMENT SPECIFICATION FF-N-636	SUPERSEDES: FORMER USAF AND NAVY STANDARD ISSUE OF AN320	SHEET 1 OF 1