

FED. SUPPLY CLASS

5310

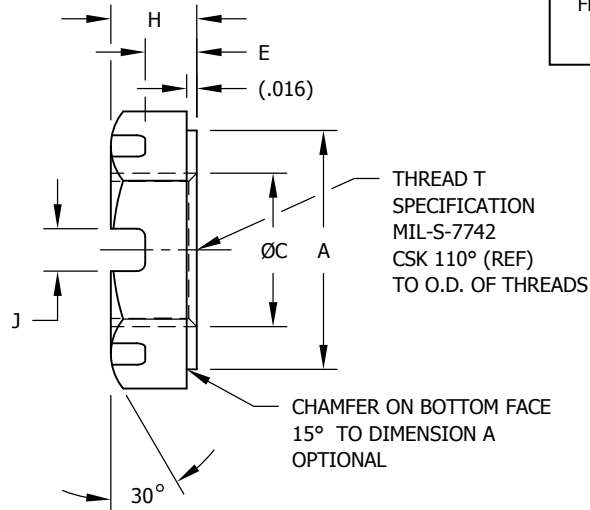
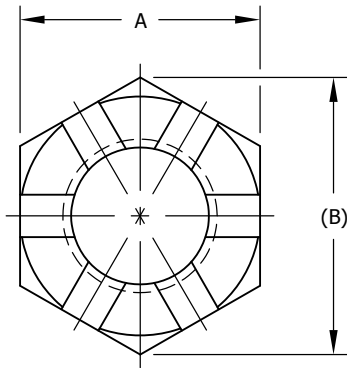


TABLE I – DIMENSIONS AND TENSILE STRENGTHS

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AN PART NO.	T THREAD	ULTIMATE TENSILE STRENGTH LBF MIN		A /8/	(B)	E ±.015	H	J +.031 -.000
		STEEL	AL ALLOY					
AN320-1	.1380-40 UNF-3B	–	–	.313 +.002 -.010	.359	.078	.156	.078
AN320-2	.1640-36 UNF-3B	–	–	.344 +.002 -.010	.391	.078	.156	.078
AN320-3	.1900-32 UNF-3B	1,105	550	.375 +.002 -.010	.438	.094	.188	.078
AN320-4	.2500-28 UNF-3B	2,040	1,015	.438 +.002 -.010	.500	.094	.188	.078
AN320-5	.3125-24 UNF-3B	3,250	1,610	.500 +.002 -.010	.578	.094	.188	.078
/9/ AN320-6	.3750-24 UNF-3B	5,050	2,510	.563 +.002 -.010	.656	.109	.219	.125
AN320-7	.4375-20 UNF-3B	6,800	3,375	.625 +.002 -.011	.719	.109	.219	.125
AN320-8	.5000-20 UNF-3B	9,250	4,590	.750 +.002 -.012	.875	.141	.250	.125
AN320-9	.5625-18 UNF-3B	11,800	5,850	.875 +.002 -.012	1.016	.188	.313	.156
AN320-10	.6250-18 UNF-3B	15,050	7,450	1.000 +.002 -.014	1.156	.188	.313	.156
AN320-12	.7500-16 UNF-3B	22,000	10,900	1.125 +.002 -.016	1.297	.250	.375	.156
AN320-14	.8750-14 UNF-3B	30,000	14,900	1.313 +.002 -.017	1.516	.313	.438	.156
AN320-15	1.0000-12 UNF-3B	40,350	20,000	1.500 +.002 -.019	1.734	.375	.500	.156
/4/ AN320-16	1.0000-14 NF-3B	40,350	20,000	1.500 +.002 -.019	1.734	.375	.500	.156
AN320-18	1.1250-12 UNF-3B	50,900	25,250	1.688 +.002 -.021	1.953	.406	.563	.156
AN320-20	1.2500-12 UNF-3B	65,100	32,200	1.875 +.002 -.023	2.172	.469	.625	.156

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES AN320, REVISION 14. PART NUMBERS REMAIN AN320.

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 3
PROCUREMENT SPECIFICATION FF-N-836	TITLE NUT, PLAIN, CASTELLATED, SHEAR	CLASSIFICATION PART STANDARD
		NASM320 SHEET 1 OF 2

MATERIAL:

- ③ STEEL - GRADE C PER PROCUREMENT SPECIFICATION. FOR NOMINAL SIZE .4375 AND LARGER, HEAT TREATED TO 24-32HRC.
ALUMINUM ALLOY - SEE PROCUREMENT SPECIFICATION.
300 SERIES CRES - SEE PROCUREMENT SPECIFICATION.

FINISH:

STEEL - CADMIUM PLATE IN ACCORDANCE WITH AMS-QQ-P-416, TYPE II, CLASS 2.
ALUMINUM ALLOY - ANODIZE IN ACCORDANCE WITH MIL-A-8625, TYPE II.
300 SERIES CRES - PASSIVATE IN ACCORDANCE WITH AMS2700, METHOD 1, CLASS 4.

CODE:

ADD "D" IN PLACE OF DASH NUMBER FOR ALUMINUM ALLOY NUTS.
ADD "C" IN PLACE OF DASH NUMBER FOR 300 SERIES CRES NUTS.

EXAMPLE OF PART NUMBERS:

AN320-7 = NUT, STEEL, .4375-20 UNF-3B.
AN320D7 = NUT, ALUMINUM ALLOY, .4375-20 UNF-3B.
AN320C7 = NUT, 300 SERIES CRES, .4375-20 UNF-3B.

NOTES:

- ③ (1) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED. TOLERANCES UNLESS OTHERWISE SPECIFIED: DECIMALS $\pm .010$, ANGLES $\pm 1^\circ$.
- (2) REMOVE ALL BURRS AND SHARP EDGES.
- (3) MARKING SHALL BE IN ACCORDANCE WITH AS478-2B1.
- /4/ 1-14 NF NOMINAL THREAD SIZE WAS INACTIVATED FOR NEW DESIGN AFTER 27 MARCH 1967 BUT IS STILL PROCUREABLE.
- (5) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- (6) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- ③ (7) UNLESS OTHERWISE SPECIFIED HEREIN, REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF MANUFACTURE. HOWEVER, EXISTING MATERIAL INVENTORY CERTIFIED TO A PREVIOUS REVISION OF THE APPLICABLE MATERIAL SPECIFICATION(S) IS ACCEPTABLE FOR USE UNTIL DEPLETION.
- /8/ FOR ALUMINUM ALLOY NUTS LARGER THAN -5 SIZE, TOLERANCES ON DIMENSION "A" MAY CONFORM TO APPLICABLE MATERIAL SPECIFICATION FOR BAR AND ROD.
- ③ /9/ DUE TO A TYPOGRAPHICAL ERROR, THERE IS A POSSIBILITY OF HAVING TWO -6 PARTS WITH DIFFERENT "J" DIMENSIONS. THE FINAL DISPOSITION OF INVENTORY WITH AN INCORRECT "J" DIMENSION OF .078 IS AT THE DISCRETION OF THE END USER.
- (10) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.

REVISION

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NAS320
SHEET 2



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