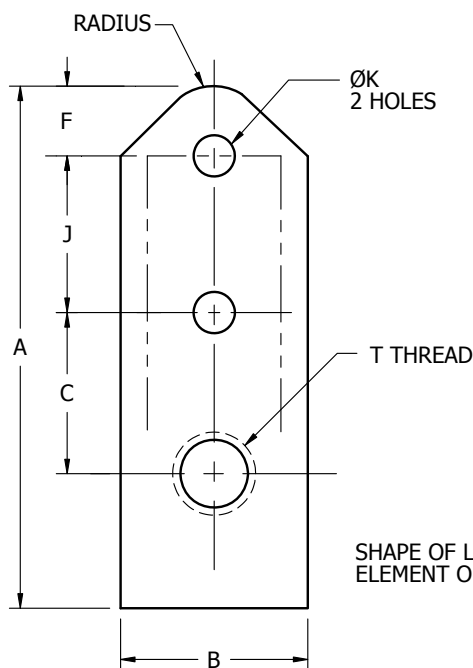
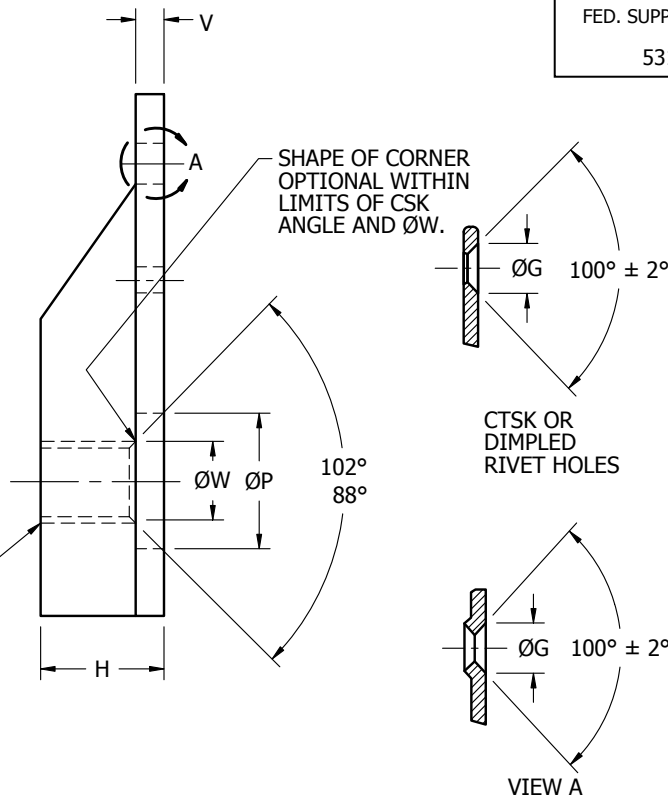




CONFIGURATION OF NUT OPTIONAL WITHIN
THE LIMITATIONS IMPOSED BY DIMENSIONS
AND REQUIREMENTS SPECIFIED HEREIN.



FED. SUPPLY CLASS
5310

TABLE I – DASH NUMBERS AND DIMENSIONS

DASH NUMBERS		T THREAD SIZES	A MAX	B MAX	C ±.005	F MIN	ØG ±.010	H		J ±.002	ØK +.005 -.000 /6/	ØP		V MAX	ØW MIN	AXIAL STRENGTH LBF MIN	WEIGHT LBS/100
PLAIN HOLES	CSK OR DIMPLED HOLES							MAX	MIN			MAX	MIN				
04	04K	.1120-40 UNJC-3B	1.094	.422	.344	.115	.200	.218	.133	.312	.098	.270	.172	.075	.112	750	.55
06	06K	.1380-32 UNJC-3B	1.094	.422	.344	.115	.200	.234	.160	.312	.098	.270	.198	.075	.138	1,130	.56
08	08K	.1640-32 UNJC-3B	1.094	.422	.344	.115	.200	.312	.234	.312	.098	.270	.224	.075	.164	1,720	.60
3	3K	.1900-32 UNJF-3B	1.094	.422	.344	.115	.200	.312	.234	.312	.098	.270	.250	.075	.190	2,460	.60
4	4K	.2500-28 UNJF-3B	1.316	.531	.500	.115	.200	.387	.283	.312	.098	.330	.310	.075	.250	4,580	1.20
5	5K	.3125-24 UNJF-3B	1.378	.641	.500	.115	.230	.387	.283	.312	.130	.393	.373	.075	.312	7,390	2.20
6	6K	.3750-24 UNJF-3B	1.422	.703	.500	.125	.230	.479	.445	.312	.130	.487	.438	.075	.375	11,450	2.80
8	8K	.5000-20 UNJF-3B	1.800	.859	.625	.125	.230	.630	.595	.500	.161	.550	.500	.075	.500	15,450	4.00

MATERIAL:

NUT: STEEL, COMPOSITIONS 1035 (UNS G10350), 1040 (UNS G10400), AND 1050 (UNS G10500)
PER ASTM A827/A827M, AMS5085 AND AMS-QQ-S-700; 1008 (UNS G10080),
1042 (UNS G10420), PER ASTM A29/A29M, 1137 (UNS G11370), PER AMS5024.
ALLOY STEEL, GRADES 4130 (UNS G41300), 4340 (UNS G43400) AND 8740 (UNS G87400)
PER ASTM A29/A29M.

RETAINER: CARBON STEEL, COMPOSITION 1035 (UNS G10350), 1050 (UNS G10500) PER
ASTM A827/A827M, AMS5085 AND AMS-QQ-S-700.

NON-METALLIC INSERT: NYLON OR EQUIVALENT.

① COMPLETELY REVISED

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS21082, REVISION F. PART NUMBERS REMAIN MS21082.

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 1
PROCUREMENT SPECIFICATION NASM25027	TITLE NUT, SELF-LOCKING, PLATE, ONE LUG, FLOATING, NON-METALLIC INSERT, STEEL, 125 KSI Ft_u, 250 °F	CLASSIFICATION PART STANDARD
		NASM21082 SHEET 1 OF 3

HEAT TREATMENT:

HARDNESS: 35HRC, MAX.

FINISH:

CADMIUM PLATE IN ACCORDANCE AMS-QQ-P-416, TYPE II, CLASS 2.

CODE:

THE PART NUMBER SHALL CONSIST OF THE BASIC PART NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE I.

EXAMPLE OF PART NUMBER:

MS21082 -4 = NUT, SELF-LOCKING, PLATE, ONE LUG, FLOATING, NON-METALLIC INSERT, STEEL;
125 KSI Ft_u, 250 °F; .2500-28 UNJF-3B; PLAIN HOLES.

└── DASH NUMBER

└── BASIC PART NUMBER

NOTES:

- (1) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (2) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (3) 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.
- (4) DESIGN AND USAGE LIMITATIONS: THESE NUTS ARE DESIGNED TO DEVELOP THE TENSILE STRENGTH OF BOLTS AND SCREWS WITH AN ULTIMATE TENSILE STRENGTH OF 125 KSI BASED ON THE CROSS SECTION AREA AT THE BASIC ROOT DIAMETER OF THE THREADS. THESE NUTS ARE DESIGNED TO BE USED ON 3A EXTERNAL THREADS. THESE NUTS SHALL BE USED IN ACCORDANCE WITH THE LIMITATIONS OF NASM33588. ONLY NUTS FOR WHICH THERE ARE QUALIFIED PRODUCTS LISTED ON QPL 25027 SHALL BE USED.
- (5) MS21082 SUPERSEDES NAS1032.
- /6/ DIMPLED RIVET HOLE TOLERANCE FOR "ØK" IS +.015/- .000.
- (7) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
- (9) THREADS IN ACCORDANCE WITH AS8879.
- (10) SURFACE ROUGHNESS: UNLESS OTHERWISE SPECIFIED, 125 MICROINCHES Ra PER ASME B46.1.
- (11) MINIMUM VIBRATION LIFE REQUIREMENT SHALL BE THREE TIMES AVERAGE VIBRATION LIFE IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.

① COMPLETELY REVISED

REVISION
1
NASM21082
SHEET 2

