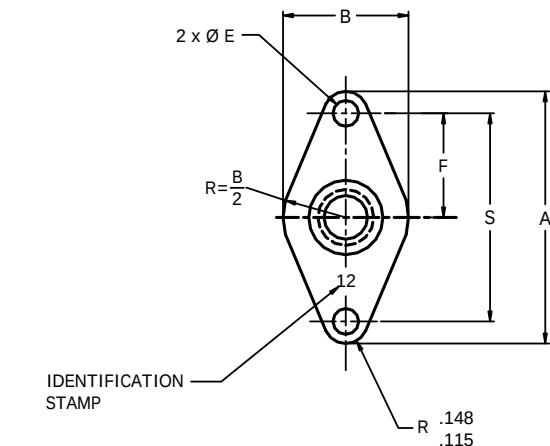


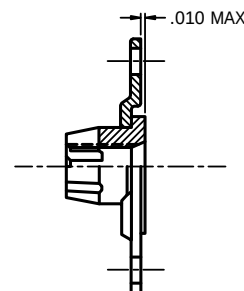
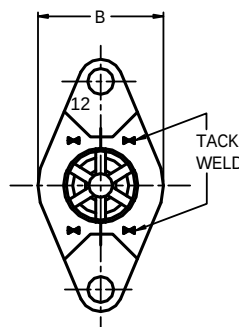
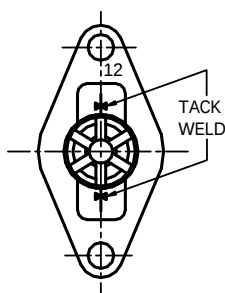
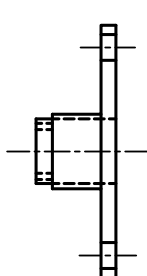
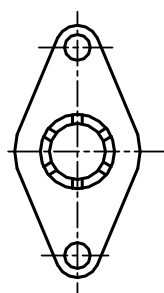


SHAPE OF TOP
OPTIONAL

R .031 MIN

FED. SUPPLY CLASS

5310



OPTIONAL CONFIGURATIONS

TABLE I – DIMENSIONS

DASH NO.	THREAD T	A MAX	B MAX	Ø C MIN	Ø E		H		F /9/	S		AXIAL STRENGTH POUNDS MIN	WEIGHT POUNDS/100 MAX
					MAX	MIN	MAX	MIN		MAX	MIN		
632	.1380-32 UNJC-3B	.986	.407	.148	.103	.098	.234	.187	.344	.690	.686	1,130	.60
832	.1640-32 UNJC-3B	.986	.407	.174	.103	.098	.251	.204	.344	.690	.686	1,720	.65
1032	.1900-32 UNJF-3B	.986	.407	.200	.103	.098	.251	.204	.344	.690	.686	2,460	.63
428	.2500-28 UNJF-3B	1.298	.516	.260	.103	.098	.329	.280	.500	1.002	.998	4,580	1.12
524	.3125-24 UNJF-3B	1.298	.532	.322	.135	.130	.360	.312	.500	1.002	.998	7,390	1.60
624	.3750-24 UNJF-3B	1.298	.641	.385	.135	.130	.469	.406	.500	1.002	.998	11,450	2.63

MATERIAL:

NUT: 347 CRES (UNS S34723) PER AMS5642 OR AMS5646.

RETAINER: 321 CRES (UNS S32100) PER AMS5510 OR A286 (UNS S66286) PER AMS5525.

FINISH:

NUT: SILVER PLATE PER AMS2411 ON THREADS ONLY, OPTIONAL ON OTHER SURFACES.

RETAINER: PASSIVATE PER AMS2700, METHOD 1, CLASS 4. NO PLATING ON NIBS.

① COMPLETELY REVISED

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS20501, REVISION D. PART NUMBERS REMAIN MS20501.



THIRD
ANGLE
PROJECTION

PROCUREMENT
SPECIFICATION

NASM7873

CUSTODIAN
NATIONAL AEROSPACE STANDARDS COMMITTEE

TITLE
**NUT, SELF-LOCKING, PLATE, TWO LUG,
1200 °F, 125 KSI FTU**

REVISION
1

CLASSIFICATION
PART STANDARD

MS20501
SHEET 1 OF 2

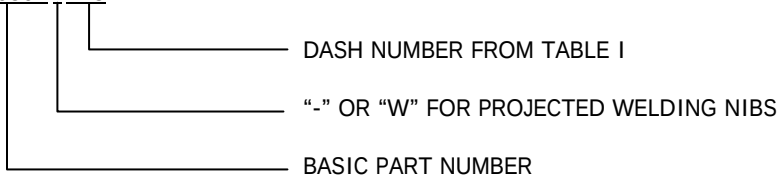


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CODE:

THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE I. LETTER "W" IN PLACE OF "DASH" INDICATES PROJECTED WELDING NIBS.

MS20501 - 428



EXAMPLES OF PART NUMBER:

MS20501-428 = NUT, SELF-LOCKING, PLATE, TWO LUG, 1200 °F, 125 KSI Ft_u, .2500-28 UNJF-3B, PLAIN HOLES.

MS20501W428 = NUT, SELF-LOCKING, PLATE, TWO LUG, 1200 °F, 125 KSI Ft_u, .2500-28 UNJF-3B, NUT FOR USE BY WELDING.

NOTES:

- (1) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (2) REMOVE ALL BURRS AND SHARP EDGES.
- (3) NUT PLATES FOR USE BY WELDING TO BE MADE WITHOUT RIVET HOLES. SPACING OF WELDING PROJECTIONS MUST BE EQUAL TO DIMENSION S. (SEE EXAMPLE OF PART NUMBER FOR ORDERING INFO).
- (4) INSTALLATION SHALL BE IN ACCORDANCE WITH STANDARD NASM33588.
- ~~(5) QUALIFIED PRODUCTS: ONLY NUTS FOR WHICH THERE ARE QUALIFIED PRODUCTS LISTED ON QPL 7073 SHALL BE USED.~~
- (6) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (7) 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 A CROSS SECTIONAL AREA AT THE BASIC ROOT DIAMETER OF THE THREAD. THESE NUTS ARE DESIGNED TO BE USED ON CLASS 3A FIT THREADS. THESE NUTS SHALL BE USED IN ACCORDANCE WITH THE LIMITATIONS OF NASM33588.
- (8) REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.
- /9/ THE CENTER OF THE TAPPED HOLE SHALL NOT DEVIATE BY MORE THAN .005 IN ANY DIRECTION FROM THE CENTER OF THE PLATE NUT AS DETERMINED BY THE RIVET HOLES.
- (10) HARDNESS TO BE 35HRC, MAXIMUM.
- (11) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
- (12) SCREW THREADS SHALL BE IN ACCORDANCE WITH AS8879, PRIOR TO INCORPORATION OF THE LOCKING FEATURE. SCREW THREAD ACCEPTABILITY SHALL BE IN ACCORDANCE WITH FED-STD-H28/20 SYSTEM 21.
- (13) SURFACE ROUGHNESS: 125 MICROINCHES Ra, PER ASME B46.1.
- (14) MAGNETIC PERMEABILITY SHALL BE LESS THAN 2.0 (AIR = 1.0) FOR A FIELD STRENGTH H = 200 OERSTEDS USING A MAGNETIC PERMEABILITY INDICATOR PER ASTM A 342/A 342M, TEST METHOD 3.
- (15) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.

① COMPLETELY REVISED

REVISION

1

NASM20501

SHEET 2



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