

REV. D

SAE AS3478

FEDERAL SUPPLY CLASS
5310

RATIONALE

REVISE THREAD SPECIFICATION TO AS8879, CORRECT ERROR IN DIMENSION REFERENCE IN VIEW AB, ADD TOLERANCES FOR DIMENSIONS C & G, ADD NOTE FOR SHAPE OF TOP, FIGURE 1 RE-DRAWN AND GENERAL EDITORIAL UPDATE.

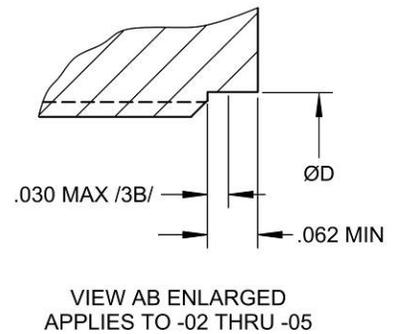
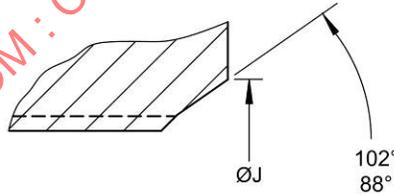
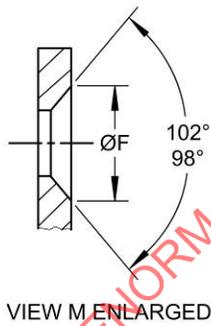
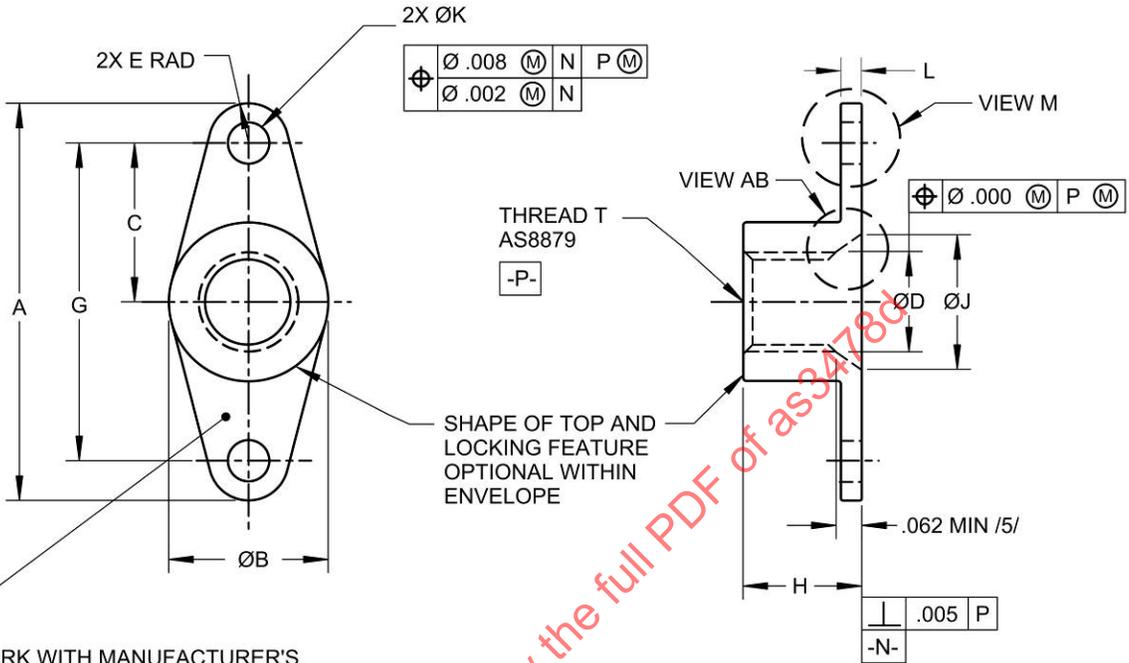
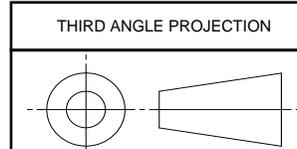


FIGURE 1 - NUT

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CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: AS4393 /4/

SAE Aerospace
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AEROSPACE STANDARD

NUT, SELF-LOCKING, PLATE, TWO LUG,
LOW HEIGHT, UNS S66286,
CLASS: 125 KSI/800 °F

SAE AS3478
SHEET 1 OF 3

REV. D

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ISSUED 1991-02 REAFFIRMED 2007-06 REVISED 2013-07

TABLE 1A – PART NUMBERS AND DIMENSIONS T, A B, C, D, E, AND F

PART NUMBER	THREAD T	A MAX	ØB	C	ØD MIN	E MIN	ØF
AS3478-01	.1380-32 UNJC-3B	.948	.239-.265	.339-.349	---	.100	.190-.210
AS3478-02	.1640-32 UNJC-3B	.948	.277-.297	.339-.349	.168	.100	.190-.210
AS3478-03	.1900-32 UNJF-3B	.948	.308-.328	.339-.349	.194	.100	.190-.210
AS3478-04	.2500-28 UNJF-3B	1.260	.375-.414	.495-.505	.254	.100	.190-.200
AS3478-05	.3125-24 UNJF-3B	1.292	.485-.505	.495-.505	.317	.125	.220-.240

TABLE 1B – DIMENSIONS G, H, J, K, L AXIAL STRENGTH, AND APPROX. MASS

PART NUMBER	G	H MAX	ØJ MAX	K	L MAX	AXIAL STRENGTH LBF MIN	APPROX MASS LB/100
AS3478-01	.686- .690	.171	.206	.098-.103	.047	1130	.18
AS3478-02	.686- .690	.250	---	.098-.103	.047	1720	.28
AS3478-03	.686- .690	.250	---	.098-.103	.047	2460	.29
AS3478-04	.998-1.002	.281	---	.098-.103	.055	4580	.53
AS3478-05	.998-1.002	.328	---	.130-.135	.055	7390	.80

NOTES:

1. MATERIAL: CORROSION AND HEAT RESISTANT ALLOY AMS5525, AMS5731, OR AMS5734 (UNS S66286).
2. HEAT TREATMENT: AFTER FORMING, PLATE NUTS SHALL BE PRECIPITATION HEATED TO A HARDNESS NOT TO EXCEED THAT SPECIFIED IN NOTE 6.
- 3/ FINISH: NUT - SILVER PLATE PER AMS2411; SILVER PLATE ONLY ON THREADS, EXCEPT:
 - a. SIZE -01 MAY HAVE OPTIONAL COVERAGE ON COUNTERSINK.
 - b. SIZE -02 THROUGH -05 SILVER PLATING IS OPTIONAL IN THE COUNTERBORE OR COUNTERSINK AND MAY BE INCOMPLETE, BUT NO PLATING SHALL EXTEND TO THE BEARING SURFACE OR THE TOP OF THE NUT. DIMENSIONS APPLY AFTER PLATING.
- 4/ PROCUREMENT SPECIFICATION: AS4393, EXCEPT AS FOLLOWS:
 - a. BAKE AT 800 °F ± 15 °F IN LIEU OF 1200 °F ± 15 °F FOR NUTS TESTED AFTER BAKE.
 - b. AXIAL STRENGTH LOAD IS PER NASM25027. SEE TABLE 1B.
- 5/ SIZE -01 SHALL BE COUNTERSUNK TO DIAMETER J. SIZE -02 AND LARGER SHALL BE COUNTERBORED TO DIAMETER D AND .062 MINIMUM DEPTH.
6. HARDNESS: 44 HRC MAXIMUM.
7. REMOVE BURRS AND SHARP EDGES.
8. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES Ra.
9. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982 (ASME PUBLICATION).
10. DIMENSIONS ARE IN INCHES.
11. DO NOT USE UNASSIGNED PART NUMBERS.

 An SAE International Group	AEROSPACE STANDARD NUT, SELF-LOCKING, PLATE, TWO LUG, LOW HEIGHT, UNS S66286, CLASS: 125 KSI/800 °F	SAE AS3478 SHEET 2 OF 3	REV. D