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REV.
A

AS3291™

FEDERAL SUPPLY CLASS
5310

RATIONALE

REVISE THREAD SPECIFICATION TO AS8879, ADD FLATNESS REQUIREMENT PER AS1132, REVISE FPI NOTE, ADD PART NUMBER MARKING, DELETE DUAL DIMENSIONING, REFORMAT TABLE 1, REDRAW FIGURE 1, AND GENERAL EDITORIAL UPDATE.

AS3291A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

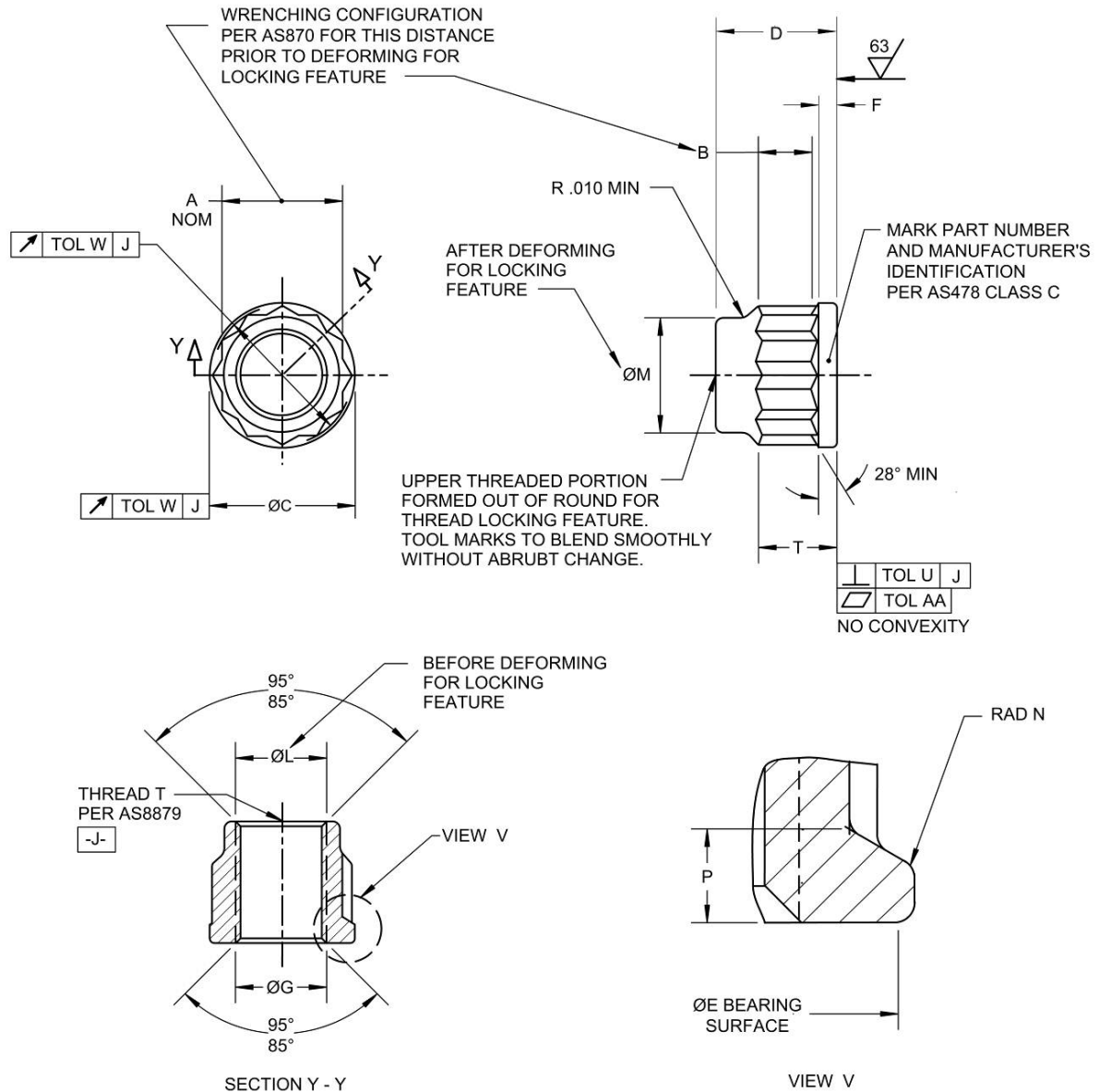
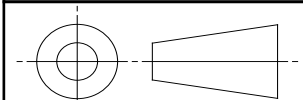


FIGURE 1 - NUT

For more information on this standard, visit
<https://www.sae.org/standards/content/AS3291A/>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: AS7253



AEROSPACE STANDARD

NUT, SELF-LOCKING, DOUBLE HEXAGON,
AMS5709 (UNS N07001), 180 KSI

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

PART NUMBER	THREAD T	A NOM	B MIN	ØC MAX	D	ØE MIN	F	ØG
AS3291-09	.1900-32 UNJF-3B	.3125	.100	.380	.340-.355	.342	.050-.065	.190-.220
AS3291-10	.2500-28 UNJF-3B	.3750	.125	.443	.396-.411	.405	.055-.070	.250-.280
AS3291-11	.3125-24 UNJF-3B	.4375	.140	.536	.458-.473	.498	.060-.075	.312-.342
AS3291-12	.3750-24 UNJF-3B	.5000	.160	.598	.490-.505	.554	.065-.080	.375-.405

TABLE 1B - DIMENSIONS L, M, N, P, T, U, W, AA, AND APPROX. MASS

PART NUMBER	ØL	ØM MAX	N	P MAX	T	U	W	AA	APPROX MASS LB/100
AS3291-09	.190-.210	.326	.005-.030	.100	.170-.210	.004	.006	.0014	.50
AS3291-10	.250-.270	.392	.005-.030	.120	.220-.265	.005	.007	.0014	.80
AS3291-11	.312-.332	.458	.005-.035	.130	.250-.300	.005	.008	.0016	1.30
AS3291-12	.375-.395	.524	.005-.040	.140	.300-.360	.005	.009	.0016	1.70

NOTES:

1. MATERIAL: CORROSION AND HEAT RESISTANT NICKEL ALLOY AMS5709 (UNS N07001).
2. HARDNESS: 32-42 HRC OR EQUIVALENT.
3. FINISH: SILVER PLATE PER AMS2411. DIMENSIONS ARE AFTER PLATING.
4. PERFORMANCE SPECIFICATION: AS7253.
5. FLUORESCENT PENETRANT INSPECTION BEFORE PLATING PER ASTM E1417/E1417M, TYPE I, SENSITIVITY LEVEL 2 MIN AND ACCEPTANCE CRITERIA PER AS3071.
6. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES Ra.
7. BREAK SHARP EDGES .003 TO .015 UNLESS OTHERWISE SPECIFIED.
8. DIMENSIONS ARE IN INCHES
9. DIMENSIONING AND TOLERANCING: ANSI Y14.5M-1982 (ASME PUBLICATION).
10. DO NOT USE UNASSIGNED PART NUMBERS.
11. A CHANGE BAR (I) LOCATED IN THE LEFT MARGIN IS FOR THE CONVENIENCE OF THE USER IN LOCATING AREAS WHERE TECHNICAL REVISIONS, NOT EDITORIAL CHANGES, HAVE BEEN MADE TO THE PREVIOUS ISSUE OF THIS DOCUMENT. AN (R) SYMBOL TO THE LEFT OF THE DOCUMENT TITLE INDICATES A COMPLETE REVISION OF THE DOCUMENT, INCLUDING TECHNICAL REVISIONS. CHANGE BARS AND (R) ARE NOT USED IN ORIGINAL PUBLICATIONS, NOR IN DOCUMENTS THAT CONTAIN EDITORIAL CHANGES ONLY.

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