FEDERAL SUPPLY CLASS
5310

RATIONALE

THIS DOCUMENT HAS BEEN DETERMINED TO CONTAIN BASIC AND STABLE TECHNOLOGY WHICH IS NOT DYNAMIC IN NATURE.

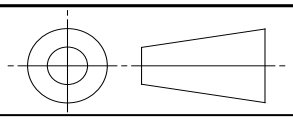
STABILIZED NOTICE

THIS DOCUMENT HAS BEEN DECLARED "STABILIZED" BY SAE E-25 GENERAL STANDARDS FOR AEROSPACE AND PROPULSION SYSTEMS COMMITTEE AND WILL NO LONGER BE SUBJECTED TO PERIODIC REVIEWS FOR CURRENCY. USERS ARE RESPONSIBLE FOR VERIFYING REFERENCES AND CONTINUED SUITABILITY OF TECHNICAL REQUIREMENTS. NEWER TECHNOLOGY MAY EXIST.

ISSUED 2007-10 REAFFIRMED 2018-08 STABILIZED 2024-02

For more information on this standard, visit
https://www.sae.org/standards/content/AS3616A/

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: NONE

SAE INTERNATIONAL

AEROSPACE STANDARD

NUT, SELF-LOCKING, DOUBLE HEXAGON
REDUCED FLANGE, SOLID FILM LUBE
COUNTERBORED 180 KSI, 1400 °F, UNS N07001

AS3616™

REV. A

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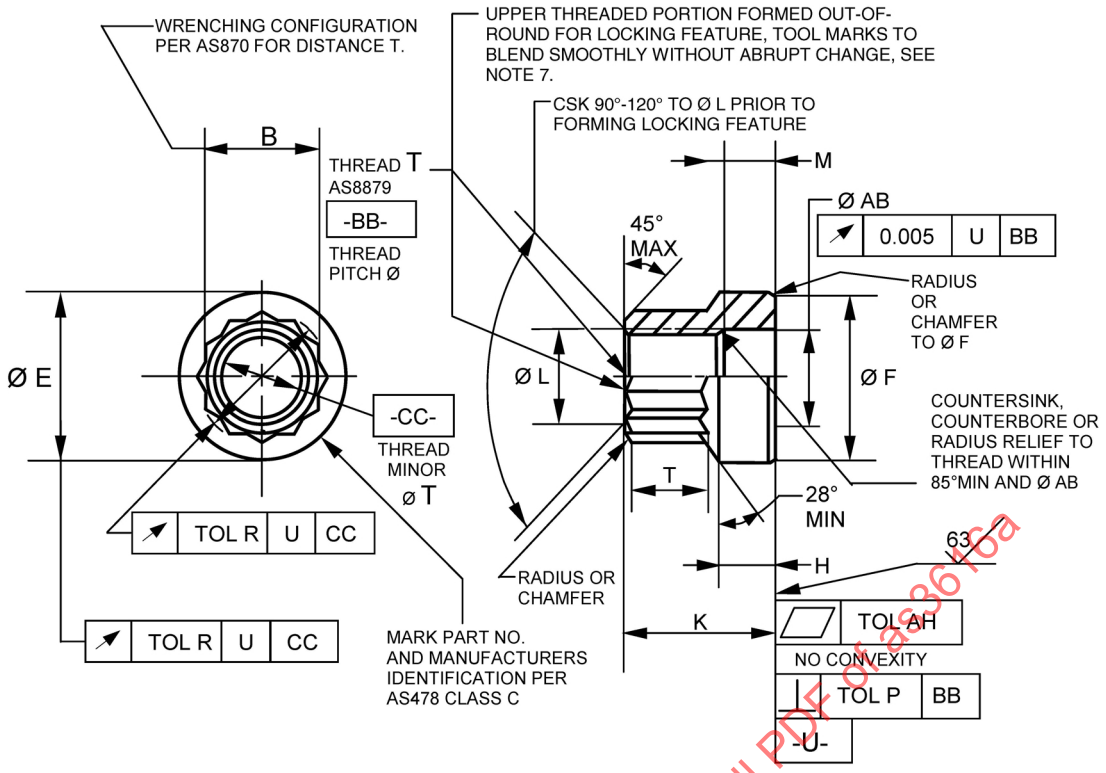

FIGURE 1

TABLE 1

PART /11/ NUMBER	T THREAD SIZE PER AS8879	B AS870 DASH NO.	B NOMINAL SIZE	ØE MAX	ØF MIN	H MIN	K MAX
AS3616-03	.1900-32 UNJF-3B	08	.2500	.340	.325	.125	.350
AS3616-04	.2500-28 UNJF-3B	10	.3125	.450	.410	.170	.437
AS3616-05	.3125-24 UNJF-3B	12	.3750	.525	.495	.175	.490
AS3616-06	.3750-24 UNJF-3B	14	.4375	.600	.560	.195	.588
AS3616-07	.4375-20 UNJF-3B	18	.5625	.690	.650	.220	.590
AS3616-08	.5000-20 UNJF-3B	20	.6250	.780	.740	.240	.785
AS3616-09	.5625-18 UNJF-3B	22	.6875	.880	.840	.270	.855
AS3616-10	.6250-18 UNJF-3B	25	.7812	.970	.925	.290	.965
AS6316-12	.7500-16 UNJF-3B	30	.9375	1.230	1.180	.320	1.110

TABLE 1 (CONTINUED)

PART /11/ NUMBER	ØL	M	T MIN	R TOL.	P TOL.	ØAB MAX	AH TOL.	APPROX. MASS LB/100
AS3616-03	.190 - .210	.085 – .105	.082	.006	.004	.200 – .210	.0014	.44
AS3616-04	.250 - .270	.100 – .120	.130	.007	.005	.260 – .270	.0014	.77
AS3616-05	.312 - .332	.115 – .135	.170	.008	.005	.323 – .333	.0016	1.22
AS3616-06	.375 - .395	.115 – .135	.210	.009	.005	.385 – .395	.0016	1.9
AS3616-07	.438 - .458	.140 – .160	.230	.010	.005	.448 – .458	.0020	3.31
AS3616-08	.500 - .520	.140 – .160	.260	.012	.006	.510 – .525	.0020	4.42
AS3616-09	.562 - .582	.160 – .180	.320	.014	.006	.573 – .583	.0020	7.96
AS3616-10	.625 - .645	.160 – .180	.370	.015	.007	.635 – .645	.0020	10.80
AS6316-12	.750 - .770	.180 - .200	.500	.016	.007	.760 - .770	.0020	12.57

NOTES:

1. MATERIAL: AMS 5708 OR AMS 5709; HEAT RESISTING NICKEL ALLOY.
2. HARDNESS: 32-44 HRC.
3. PROCUREMENT SPECIFICATION: AS5878.
   a. COATING: SOLID FILM LUBRICATION PER AS1701, CLASS IV.
   b. DIMENSIONS APPLY BEFORE COATING WITH SOLID FILM LUBRICANT.
4. BREAK EDGES .003 TO .015 UNLESS OTHERWISE SPECIFIED.
5. FLUORESCENT PENETRANT INSPECTION PER AS5878, PRIOR TO COATING.
6. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1 SURFACE TO BE 125 µin Ra, UNLESS OTHERWISE SPECIFIED.
7. DIMENSION B APPLIES PRIOR TO FORMING THE SELF-LOCKING FEATURE AFTER FORMING NUTS SHALL ALLOW THE FITMENT OF STANDARD TOOLS SELECTED FROM AS954.
8. DIMENSIONS AND TOLERANCING PER ASME Y14.5M-1994.
9. DIMENSIONS ARE IN INCHES.
10. DO NOT USE UNASSIGNED PART NUMBERS.