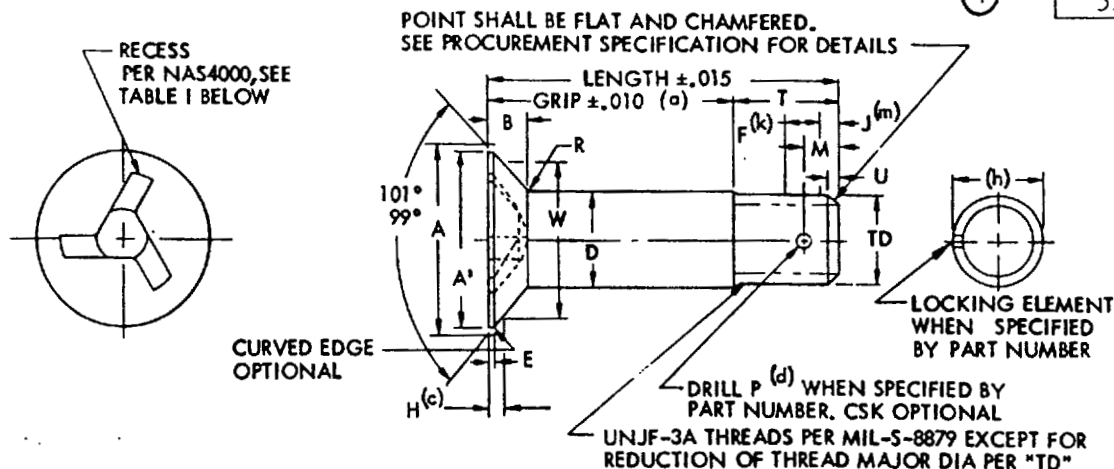


NATIONAL AEROSPACE STANDARD

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC., 1725 DE SALES STREET, N.W., WASHINGTON, D. C. 20036

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FED. SUP CLASS
5306


HEAD MARKING SHALL BE DEPRESSED (.010 MAX) AND ARRANGED AS FOLLOWS:

- FIRST SECTOR - MARK WITH BASIC NUMBER ("NAS" OPTIONAL).
SECOND SECTOR - MARK WITH MANUFACTURER'S SYMBOL (SYMBOL LOCATION OPTIONAL IN ANY SECTOR), GRIP DASH NUMBER AND "D", "L" OR "P", WHEN APPLICABLE. (1)
"D" IDENTIFIES BOLT WITH DRILLED SHANK.
"L" IDENTIFIES BOLT WITH OPTIONAL LOCKING ELEMENT.
"P" IDENTIFIES BOLT WITH PATCH TYPE LOCKING ELEMENT ONLY.

THIRD SECTOR - MARK WITH RECESS DASH NUMBER, ENCIRCLED.
RECESS NUMBER SHOULD BE APPROXIMATELY 25% LARGER THAN OTHER NUMERALS IN HEAD MARKING.

TABLE 1 DIMENSIONS (CONTINUED ON SHEET 2)

BASIC NUMBER **	NOM THREAD SIZE	A DIA MAX (b)	A' ABSO- LUTE MIN DIA (b)	B MAX (b)	D DIA, UNPLATED		D Dia, Plated Or Coated				RECESS NUMBER
							BEFORE		AFTER		
					MAX	MIN	MAX	MIN	MAX	MIN	
NAS4304	.2500-28	.508	.456	.111	.2495	.2490	.2487	.2481	.2495	.2485	NAS4000- 6
4305	.3125-24	.635	.575	.138	.3120	.3115	.3112	.3106	.3120	.3110	- 7
4306	.3750-24	.763	.692	.166	.3745	.3740	.3737	.3731	.3745	.3735	- 8
4307	.4375-20	.889	.810	.193	.4370	.4365	.4362	.4356	.4370	.4360	- 9
4308	.5000-20	1.016	.928	.221	.4995	.4990	.4987	.4981	.4995	.4985	-10
4309	.5625-18	1.144	1.047	.249	.5615	.5610	.5607	.5601	.5615	.5605	-11
4310	.6250-18	1.276	1.169	.279	.6240	.6235	.6232	.6226	.6240	.6230	-12
4312	.7500-16	1.531	1.406	.334	.7490	.7485	.7482	.7476	.7490	.7480	-13
4314	.8750-14	1.786	1.644	.390	.8740	.8735	.8732	.8726	.8740	.8730	-14
4316	1.0000-12	2.043	1.882	.446	.9990	.9985	.9982	.9976	.9990	.9980	-15

LIST OF CURRENT SHEETS	
SHEET NUMBER	REV NUMBER
1	4
2	3
3	3
4	2
5	1
6	3

**THE LAST TWO DIGITS OF THE BASIC NUMBER DESIGNATE THE SIZE. SEE SHEET 3 FOR "D" "L", "P" AND "U" CODES. SEE SHEETS 4 AND 5 FOR GRIP DASH NUMBERS.
(a), (b), ETC: SEE NOTES ON SHEET 3.

**INACTIVE FOR NEW DESIGN
AFTER JANUARY 1, 1986
NO SUPERSEDING STANDARD**

(4) FOR DESCRIPTION OF STATUS NOTES SEE NAS 380

CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE

THIRD ANGLE PROJECTION

PROCUREMENT SPECIFICATION

TITLE

CLASSIFICATION
STANDARD PART

NOTED ON
SHEET 3

(4)

BOLT, 100° HEAD, TRI-SLOT RECESS, CLOSE TOLERANCE, 6AL-4V TITANIUM ALLOY, LONG THREAD, SELF-LOCKING AND NONLOCKING

NAS 4304 THRU 4316

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TABLE I DIMENSIONS (CONTINUED)

BASIC NUMBER	H GAGE PROTRUSION(c)		W GAGE DIA +.0002 -.0000
	NOM	±TOL	
NAS4304	.0299	.0015	.4318
4305	.0354	.0017	.5449
4306	.0414	.0019	.6580
4307	.0435	.0021	.7782
4308	.0496	.0023	.8900
4309	.0556	.0025	1.0026
4310	.0649	.0027	1.1122
4312	.0738	.0031	1.3438
4314	.0840	.0035	1.5730
4316	.0950	.0039	1.8024

TABLE I DIMENSIONS (CONTINUED)

BASIC NUMBER	E MAX	F(k)	J(m)	M ±010	P(d) +.010 -.000	R RAD		T(e) REF	TD DIA		U MAX	Y(f)	Z(g)
						MAX	MIN		MAX	MIN			
NAS4304	.018	.178	.107	.178	.076	.020	.010	.425	.244	.241	.045	.0045	.0030
4305	.021	.208	.125	.181	.076	.025	.010	.469	.306	.302	.052	.0045	.0030
4306	.025	.208	.125	.197	.106	.030	.015	.578	.368	.364	.052	.0045	.0025
4307	.028	.250	.150	.201	.106	.030	.015	.694	.431	.426	.062	.0060	.0025
4308	.031	.250	.150	.216	.106	.030	.015	.735	.493	.488	.062	.0060	.0020
4309	.034	.278	.167	.218	.141	.030	.015	.840	.555	.550	.068	.0060	.0020
4310	.038	.278	.167	.249	.141	.030	.015	.902	.618	.612	.068	.0060	.0020
4312	.044	.312	.188	.252	.141	.030	.015	1.041	.743	.737	.078	.0060	.0020
4314	.050	.357	.214	.257	.141	.030	.015	1.184	.868	.861	.089	.0090	.0020
4316	.057	.416	.250	.264	.141	.030	.015	1.309	.993	.986	.104	.0090	.0020

- ③ PROCUREMENT SPECIFICATION: NAS4004, except as noted. Locking element for self-locking bolts: Per MS15981 and MIL-F-18240, any type or configuration, including patch type, is optional when "L" code is specified. Patch type locking element (with no metal removed) is required when "P" code is specified. Locking element must be supplied by a qualified source listed in QPL18240 or approved for listing in QPL18240. Shipping notice should identify supplier of bolt and locking element separately.

**INACTIVE FOR NEW DESIGN
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(c), (d), ETC: SEE NOTES ON SHEET 3.

NAS 4304 THRU 4316

Documents

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