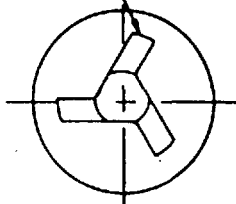
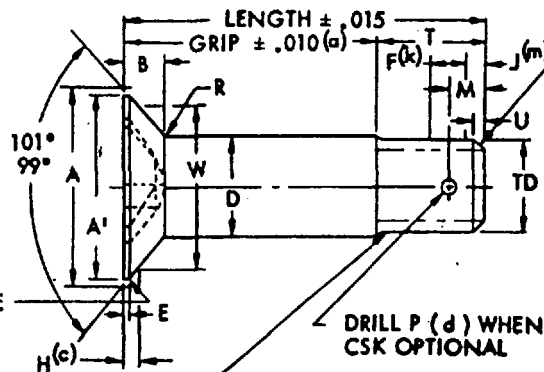


NATIONAL AEROSPACE STANDARD

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

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FED. SUP CLASS
5306⑤ TRI-SLOT RECESS
PER NAS4000, SEE
TABLE I BELOWCURVED EDGE
OPTIONALLOCKING ELEMENT WHEN
SPECIFIED BY PART NUMBERDRILL P (d) WHEN SPECIFIED BY PART NUMBER.
CSK OPTIONALUNJF-3A THREADS PER MIL-S-8879 EXCEPT FOR
REDUCTION OF THREAD MAJOR DIA PER "TD"

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.

"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 I DIMENSIONS (CONTINUED ON SHEET 2)

BASIC NUMBER **	NOM -THREAD SIZE	A DIA MAX (b)	A' ABS- OLUTE MIN DIA (b)	B MAX (b)	⑤ D DIA				E MAX	F ^(k)	⑤ TRI-SLOT RECESS NUMBER
					BEFORE PLATE		AFTER PLATE				
					MAX	MIN	MAX	MIN			
NAS4104	.2500-28	.508	.456	.111	.2487	.2481	.2495	.2485	.018	.178	NAS4000-6
4105	.3125-24	.635	.575	.138	.3112	.3106	.3120	.3110	.021	.208	-7
4106	.3750-24	.763	.692	.166	.3737	.3731	.3745	.3735	.025	.208	-8
4107	.4375-20	.889	.810	.193	.4362	.4356	.4370	.4360	.028	.250	-9
4108	.5000-20	1.016	.928	.221	.4987	.4981	.4995	.4985	.031	.250	-10
4109	.5625-18	1.144	1.047	.249	.5607	.5601	.5615	.5605	.034	.278	-11
4110	.6250-18	1.276	1.169	.279	.6232	.6226	.6240	.6230	.038	.278	-12
4112	.7500-16	1.531	1.406	.334	.7482	.7476	.7490	.7480	.044	.312	-13
4114	.8750-14	1.786	1.644	.390	.8732	.8726	.8740	.8730	.050	.357	-14
4116	1.0000-12	2.043	1.882	.446	.9982	.9976	.9990	.9980	.057	.416	-15

⑤ FOR DESCRIPTION OF STATUS NOTES SEE NAS380

**THE LAST TWO DIGITS OF THE BASIC NUMBER
DESIGNATE THE SIZE. SEE SHEET 3 FOR "B",
"D", "L" AND "P" CODES. SEE SHEETS 4 AND
5 FOR GRIP DASH NUMBERS.

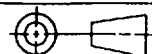
(a), (b), ETC: SEE NOTES ON SHEET 3.

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

LIST OF CURRENT SHEETS

NO.	REV.	NO.	REV.
1	5	4	2
2	3	5	1
3	3	6	3

CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE

THIRD
ANGLE
PROJECTIONPROCUREMENT
SPECIFICATIONNOTED ON
SHEET 3

TITLE

⑤ BOLT, 100° HEAD, TRI-SLOT RECESS,
CLOSE TOLERANCE, ALLOY STEEL, LONG THREAD,
SELF-LOCKING AND NONLOCKING

CLASSIFICATION
STANDARD PART

NAS 4104 THRU 4116
SH 1 OF 6

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FROM THE LAST DATE OF APPROVAL SHOWN HEREON.

29 March 1996

⑤

15 August 1985

④

5 MARCH 1980

③

30 June 1972

②

16 March 1970

①

REVISION

Dec. 1968

APPROVAL DATE

NATIONAL AEROSPACE STANDARD

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

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TABLE 1 DIMENSIONS (CONTINUED)

BASIC NUMBER	H GAGE PROTRUSION (c)		W GAGE DIA +.0002 -.0000
	NOM	±TOL	
NAS4104	.0299	.0015	.4318
4105	.0354	.0017	.5449
4106	.0414	.0019	.6580
4107	.0435	.0021	.7782
4108	.0496	.0023	.8900
4109	.0556	.0025	1.0026
4110	.0649	.0027	1.1122
4112	.0738	.0031	1.3438
4114	.0840	.0035	1.5730
4116	.0950	.0039	1.8024

TABLE 1 DIMENSIONS (CONTINUED)

BASIC NUMBER	A (m)	M ±.010	P(d) +.010 -.000	R RAD		T(e) REF	TD DIA		U MAX	Y(f)	Z(g)
				MAX	MIN		MAX	MIN			
NAS4104	.107	.178	.076	.020	.010	.425	.344	.241	.045	.0045	.0030
4105	.125	.181	.076	.025	.010	.469	.306	.302	.052	.0045	.0030
4106	.125	.197	.106	.030	.015	.578	.368	.364	.052	.0045	.0025
4107	.150	.201	.106	.030	.015	.694	.431	.426	.062	.0060	.0025
4108	.150	.216	.106	.030	.015	.735	.493	.488	.062	.0060	.0020
4109	.167	.218	.141	.030	.015	.840	.555	.550	.068	.0060	.0020
4110	.167	.249	.141	.030	.015	.902	.618	.612	.068	.0060	.0020
4112	.188	.252	.141	.030	.015	1.041	.743	.737	.078	.0060	.0020
4114	.214	.257	.141	.030	.015	1.164	.868	.861	.089	.0090	.0020
4116	.250	.264	.141	.030	.015	1.309	.993	.986	.104	.0090	.0020

③ PROCUREMENT
SPECIFICATION:

NAS 4002, 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.

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AFTER JANUARY 1, 1986
NO SUPERSEDING STANDARD**

(c), (d), ETC: SEE NOTES ON SHEET 3

NAS 4116 SH 2