

FED. SUPPLY CLASS

5306

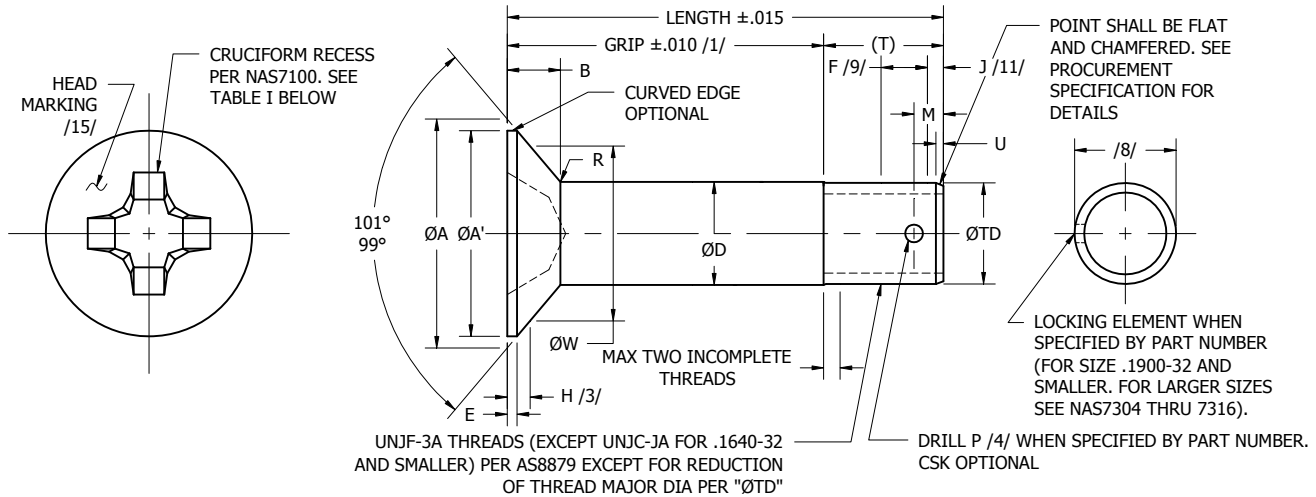


FIGURE 1 – BOLT CONFIGURATION

TABLE I – DIMENSIONS

BASIC NUMBER /16/	NOM THREAD SIZE	ØA MAX /2/	ØA' ABS MIN /2/	B MAX /2/	ØD UNCOATED		ØD COATED		RECESS SIZE	H GAGE PROTRUSION /3/ NOM ± TOL		ØW GAGE + .0002 - .0000
					MAX	MIN	MAX	MIN				
NAS7600	.1120-40	.226	.193	.044	.1115	.1110	.1115	.1105	1	.0202	.0010	.1740
NAS7601	.1380-32	.280	.246	.061	.1375	.1370	.1375	.1365	2	.0232	.0011	.2208
NAS7602	.1640-32	.331	.296	.072	.1635	.1630	.1635	.1625	2	.0186	.0012	.2830
NAS7603	.1900-32	.381	.338	.082	.1895	.1890	.1895	.1885	2	.0210	.0013	.3270
NAS7604	.2500-28	.508	.456	.111	.2495	.2490	.2495	.2485	3	.0299	.0015	.4318
NAS7605	.3125-24	.635	.575	.138	.3120	.3115	.3120	.3110	4	.0354	.0017	.5449
NAS7606	.3750-24	.763	.692	.166	.3745	.3740	.3745	.3735	4	.0414	.0019	.6580
NAS7607	.4375-20	.889	.810	.193	.4370	.4365	.4370	.4360	4	.0435	.0021	.7782
NAS7608	.5000-20	1.016	.928	.221	.4995	.4990	.4995	.4985	4	.0496	.0023	.8900
NAS7609	.5625-18	1.144	1.047	.249	.5615	.5610	.5615	.5605	4	.0556	.0025	1.0026
NAS7610	.6250-18	1.276	1.169	.279	.6240	.6235	.6240	.6230	5	.0649	.0027	1.1122
NAS7612	.7500-16	1.531	1.406	.334	.7490	.7485	.7490	.7480	5	.0738	.0031	1.3438
NAS7614	.8750-14	1.786	1.644	.390	.8740	.8735	.8740	.8730	6	.0840	.0035	1.5730
NAS7616	1.0000-12	2.043	1.882	.446	.9990	.9985	.9990	.9980	6	.0950	.0039	1.8024

⑦ COMPLETELY REVISED

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 7
PROCUREMENT SPECIFICATION NOTED	TITLE BOLT, 100° HEAD, CRUCIFORM RECESS, CLOSE TOLERANCE, 6Al-4V TITANIUM ALLOY, SHORT THREAD, SELF-LOCKING AND NONLOCKING	CLASSIFICATION PART STANDARD NAS7600 THRU NAS7616 SHEET 1 OF 6

TABLE I – DIMENSIONS (CONTINUED)

BASIC NUMBER	E MAX	M ±.010	P +.010 –.000 /4/	R RAD		(T) /5/	ØTD		U MAX	Y /6/	Z /7/	F /9/	J /11/	RECESS PERFORMANCE MIN. TORQUE (N)	
				MAX	MIN		MAX	MIN						TORQUE INCH LBF	RECESS NUMBER
NAS7600	.010	–	–	.012	.005	.238	.1085	.0165	.031	.0045	.0040	.125	.075	–	1
NAS7601	.010	–	–	.012	.005	.276	.1340	.1315	.039	.0045	.0040	.156	.094	–	2
NAS7602	.012	–	–	.020	.010	.323	.1595	.1570	.039	.0045	.0040	.156	.094	35	2
NAS7603	.015	.164	.070	.020	.010	.323	.184	.181	.039	.0045	.0040	.156	.094	50	2
NAS7604	.018	.170	.076	.020	.010	.370	.244	.241	.045	.0045	.0030	–	–	125	3
NAS7605	.021	.182	.076	.025	.010	.438	.306	.302	.052	.0045	.0030	–	–	–	4
NAS7606	.025	.183	.106	.030	.015	.454	.368	.364	.052	.0045	.0025	–	–	–	4
NAS7607	.028	.199	.106	.030	.015	.528	.431	.426	.062	.006	.0025	–	–	–	4
NAS7608	.031	.198	.106	.030	.015	.528	.493	.488	.062	.006	.0020	–	–	–	4
NAS7609	.034	.207	.141	.030	.015	.594	.555	.550	.068	.006	.0020	–	–	–	4
NAS7610	.038	.207	.141	.030	.015	.626	.618	.612	.068	.006	.0020	–	–	–	5
NAS7612	.044	.222	.141	.030	.015	.666	.743	.737	.078	.006	.0020	–	–	–	5
NAS7614	.050	.241	.141	.030	.015	.759	.868	.861	.089	.009	.0020	–	–	–	6
NAS7616	.057	.264	.141	.030	.015	.895	.993	.986	.104	.009	.0020	–	–	–	6

MATERIAL:

TITANIUM ALLOY: 6Al-4V (UNS R56400) PER AMS4928 OR AMS4967.

HEAT TREATMENT:

DEVELOP BASIC MATERIAL PROPERTIES AS FOLLOWS, WITH CONTROLS PER AMS-H-81200 OR AMS2801:
160 KSI FTU, 95 KSI MINIMUM SHEAR, PER AMS4928 OR AMS4967.

FINISH:

UNCOATED BOLT: NONE.
COATED BOLTS: ALUMINUM COATING PER NAS4006.

CODE:

ADD "A" AFTER BASIC NUMBER FOR ALUMINUM COATED BOLT. MAY BE USED WITH "D", "L" OR "P" CODE.
ADD "D" AFTER BASIC NUMBER FOR DRILLED THREAD BOLT. (FOR SIZES .1900-32 AND LARGER) DO NOT USE WITH "L" OR "P" CODE. /12/
ADD "L" AFTER BASIC NUMBER FOR SELF-LOCKING BOLT WITH OPTIONAL LOCKING ELEMENT (INCLUDING PATCH TYPE): SEE PROCUREMENT SPECIFICATION BELOW. (FOR SIZE .1900-32 AND SMALLER. FOR LARGER SIZES SEE NAS7304 THRU NAS7316.) DO NOT USE WITH "D" OR "P" CODE.
ADD "P" AFTER BASIC NUMBER FOR SELF-LOCKING BOLT WITH PATCH TYPE LOCKING ELEMENT ONLY; SEE PROCUREMENT SPECIFICATION BELOW. (SIZES .1900-32 AND SMALLER. SEE NAS7304 THRU NAS7316 FOR LARGER SIZES.) DO NOT USE WITH "D" OR "L" CODE.
ADD "U" AFTER BASIC NUMBER FOR UNCOATED BOLT. MAY BE USED WITH "D", "L" OR "P" CODE. WHEN MULTIPLE LETTER CODES ARE USED, SEQUENCE SHALL BE IN ALPHABETICAL ORDER.
DASH NUMBER INDICATES GRIP IN .0625 INCREMENTS (CONVERTED TO THREE DECIMAL PLACES PER ANSI Y14.5M-1982).
SEE TABLE II FOR TABULATIONS OF GRIP AND LENGTH DIMENSIONS. INTERMEDIATE OR LONGER LENGTHS MAY BE SPECIFIED BY USE OF WHOLE DASH NUMBER ONLY.

REVISION

7

⑦ COMPLETELY REVISED

NAS7600 THRU
NAS7616
SHEET 2



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