

FED. SUPPLY CLASS

5306

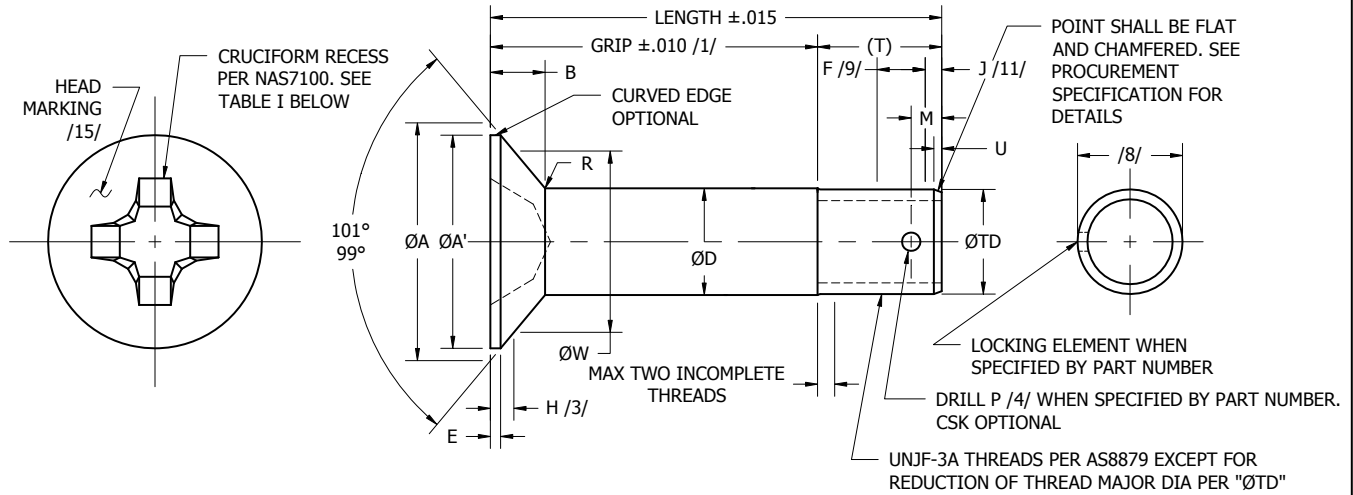


FIGURE 1 – BOLT CONFIGURATION

TABLE I – DIMENSIONS

BASIC NUMBER /16/	NOM THREAD SIZE	ØA MAX /2/	ØA' ABS MIN /2/	B MAX /2/	ØD UNCOATED		ØD AFTER COATING		RECESS SIZE	H GAGE PROTRUSION /3/		ØW GAGE + .0002 - .0000	E MAX
					MAX	MIN	MAX	MIN		NOM	±TOL		
NAS7303	.1900-32	.381	.338	.082	.1895	.1890	.1895	.1885	2	.0210	.0013	.3270	.015
NAS7304	.2500-28	.508	.456	.111	.2495	.2490	.2495	.2485	3	.0299	.0015	.4318	.018
NAS7305	.3125-24	.635	.575	.138	.3120	.3115	.3120	.3110	4	.0354	.0017	.5449	.021
NAS7306	.3750-24	.763	.692	.166	.3745	.3740	.3745	.3735	4	.0414	.0019	.6580	.025
NAS7307	.4375-20	.889	.810	.193	.4370	.4365	.4370	.4360	4	.0435	.0021	.7782	.028
NAS7308	.5000-20	1.016	.928	.221	.4995	.4990	.4995	.4985	4	.0496	.0023	.8900	.031
NAS7309	.5625-18	1.144	1.047	.249	.5615	.5610	.5615	.5605	4	.0556	.0025	1.0026	.034
NAS7310	.6250-18	1.276	1.169	.279	.6240	.6235	.6240	.6230	5	.0649	.0027	1.1122	.038
NAS7312	.7500-16	1.531	1.406	.334	.7490	.7485	.7490	.7480	5	.0738	.0031	1.3438	.044
NAS7314	.8750-14	1.786	1.644	.390	.8740	.8735	.8740	.8730	6	.0840	.0035	1.5730	.050
NAS7316	1.0000-12	2.043	1.882	.446	.9990	.9985	.9990	.9980	6	.0950	.0039	1.8024	.057

⑦ COMPLETELY REVISED

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE		REVISION 7
PROCUREMENT SPECIFICATION	TITLE BOLT, 100° HEAD, CRUCIFORM RECESS, CLOSE TOLERANCE, 6Al-4V TITANIUM ALLOY, LONG THREAD, SELF-LOCKING AND NONLOCKING		CLASSIFICATION PART STANDARD
NOTED	⑦		NAS7303 THRU NAS7316 SHEET 1 OF 6

TABLE I – DIMENSIONS (CONTINUED)

BASIC NUMBER /16/	F /9/	J /11/	M ±.010	P +.010 –.000 /4/	R RAD		(T) /5/	ØTD		U MAX	Y /6/	Z /7/	RECESS PERFORMANCE MIN. TORQUE /12/ TORQUE IN-LBF RECESS NUMBER	
					MAX	MIN		MAX	MIN					
NAS7303	.156	.094	.164	.070	.020	.010	.365	.184	.181	.039	.0045	.0045	50	2
NAS7304	.178	.107	.178	.076	.020	.010	.425	.244	.241	.045	.0045	.0030	125	3
NAS7305	.208	.125	.181	.076	.025	.010	.469	.306	.302	.052	.0045	.0030	–	4
NAS7306	.208	.125	.197	.106	.030	.015	.578	.368	.364	.052	.0045	.0025	–	4
NAS7307	.250	.150	.201	.106	.030	.015	.694	.431	.426	.062	.0060	.0025	–	4
NAS7308	.250	.150	.216	.106	.030	.015	.735	.493	.488	.062	.0060	.0020	–	4
NAS7309	.278	.167	.218	.141	.030	.015	.840	.555	.550	.068	.0060	.0020	–	4
NAS7310	.278	.167	.249	.141	.030	.015	.902	.618	.612	.068	.0060	.0020	–	5
NAS7312	.312	.188	.252	.141	.030	.015	1.041	.743	.737	.078	.0060	.0020	–	5
NAS7314	.357	.214	.257	.141	.030	.015	1.184	.868	.861	.089	.0090	.0020	–	6
NAS7316	.416	.250	.264	.141	.030	.015	1.309	.993	.986	.104	.0090	.0020	–	6

MATERIAL:

TITANIUM ALLOY: 6Al-4V (UNS R56400) PER AMS4928 OR AMS4967.
LOCKING ELEMENT: PLASTIC PER MIL-DTL-18240 AND QPL18240.

HEAT TREATMENT:

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

FINISH:

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

CODE:

DASH NUMBER INDICATES GRIP IN .0625 INCREMENTS (CONVERTED TO THREE DECIMAL PLACES PER ANSI Y14.5M-1982). SEE TABLE II FOR GRIP AND LENGTH DIMENSIONS. INTERMEDIATE OR LONGER LENGTHS MAY BE SPECIFIED BY USE OF WHOLE DASH NUMBERS ONLY.
BASIC NUMBER INDICATES NONLOCKING BOLT WITH UNDRILLED THREAD.
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. DO NOT USE WITH "L" OR "P" CODE.
/13/
ADD "L" AFTER BASIC NUMBER FOR SELF-LOCKING BOLT WITH ANY APPROVED OPTIONAL LOCKING ELEMENT (INCLUDING PATCH TYPE, NO METAL REMOVED). DO NOT USE WITH "D" OR "P" CODE.
ADD "P" AFTER BASIC NUMBER FOR SELF-LOCKING BOLT WITH PATCH TYPE LOCKING ELEMENT ONLY (NO METAL REMOVED). DO NOT USE WITH "D" OR "L" CODE.
ADD "U" AFTER BASIC NUMBER FOR UNCOATED BOLTS. MAY BE USED WITH "D", "L" OR "P" CODE.
WHEN MULTIPLE LETTER CODES ARE USED, SEQUENCE SHALL BE IN ALPHABETICAL ORDER.

REVISION

7

NAS7303 THRU
NAS7316
SHEET 2

⑦ COMPLETELY REVISED



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