

FED.SUPPLY CLASS

5306

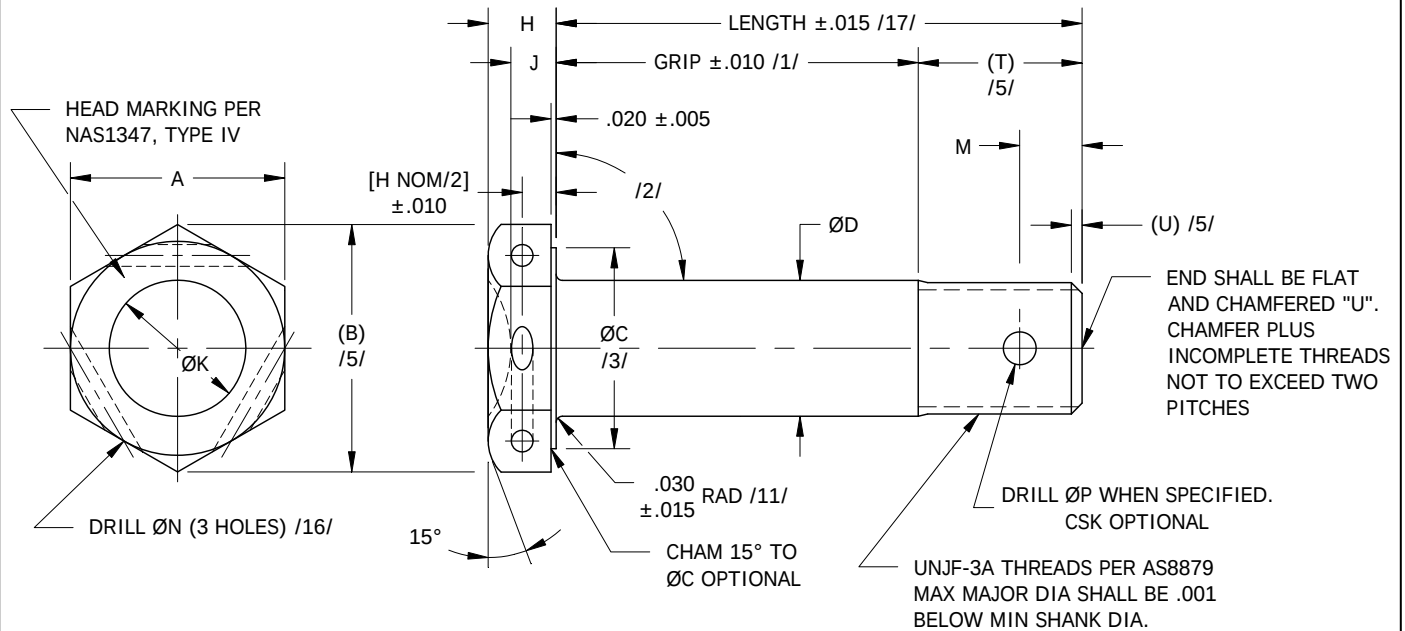


TABLE I – DIMENSIONS AND STRENGTH VALUES

BASIC PART NUMBER	THREAD UNJF-3A /11/	A		(B) /5/	ØC MIN /3/	ØD /10/		H +.015 -.000	J +.015 -.000	ØK ±.01	M ±.010	ØN +.010 -.000	ØP +.010 -.000 /4/	(T) /5/	(U) /5/
		MAX	MIN			MAX	MIN								
NAS2813	.1900-32	.376	.367	.43	.335	.1895	.1885	.110	.073	.19	.164	.046	.070	.323	.016
NAS2814	.2500-28	.439	.430	.51	.398	.2495	.2485	.125	.083	.25	.170	.046	.076	.370	.018
NAS2815	.3125-24	.502	.492	.58	.460	.3120	.3110	.156	.104	.31	.182	.070	.076	.438	.021
NAS2816	.3750-24	.564	.553	.65	.523	.3745	.3735	.188	.125	.38	.183	.070	.106	.454	.021
NAS2817	.4375-20	.690	.679	.79	.648	.4370	.4360	.219	.146	.44	.199	.070	.106	.528	.025
NAS2818	.5000-20	.752	.741	.87	.710	.4995	.4985	.250	.167	.50	.198	.070	.106	.528	.025
NAS2819	.5625-18	.877	.865	1.01	.835	.5615	.5605	.281	.188	.56	.207	.070	.141	.594	.028
NAS2820	.6250-18	.940	.928	1.09	.898	.6240	.6230	.312	.208	.62	.207	.070	.141	.626	.028
NAS2822	.7500-16	1.064	1.052	1.23	1.023	.7490	.7480	.375	.250	.75	.222	.070	.141	.666	.031
NAS2824	.8750-14	1.252	1.239	1.44	1.210	.8740	.8730	.438	.292	.88	.241	.070	.141	.759	.036
NAS2826	1.0000-12	1.440	1.427	1.66	1.398	.9990	.9980	.500	.333	1.00	.264	.070	.141	.895	.042
NAS2828	1.1250-12	1.627	1.614	1.88	1.585	1.1240	1.1225	.562	.375	1.12	.295	.070	.141	.989	.042
NAS2830	1.2500-12	1.815	1.801	2.10	1.772	1.2490	1.2475	.625	.417	1.25	.295	.070	.141	1.083	.042

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 4
PROCUREMENT SPECIFICATION NOTED	TITLE BOLT, SHEAR, HEXAGON HEAD, CLOSE TOLERANCE, SHORT THREAD, 108 KSI Fsu	CLASSIFICATION PART STANDARD
		NAS2813 THRU NAS2830 SHEET 1 OF 6

TABLE I – DIMENSIONS AND STRENGTH VALUES (CONTINUED)

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BASIC PART NUMBER	DOUBLE SHEAR STRENGTH LBF MIN	TENSILE STRENGTH LBF MIN /14/	NOM SIZE	INSPECTION DATA		
				X /6/	Y /6/	Z /7/
NAS2813	6,100	3,910	.1900	.005	.0045	.0040
NAS2814	10,600	6,980	.2500	.006	.0045	.0030
NAS2815	16,600	11,100	.3125	.008	.0045	.0030
NAS2816	23,900	17,100	.3750	.009	.006	.0025
NAS2817	32,500	23,200	.4375	.010	.006	.0025
NAS2818	42,400	30,900	.5000	.011	.006	.0020
NAS2819	53,700	39,200	.5625	.012	.006	.0020
NAS2820	66,300	49,000	.6250	.015	.006	.0020
NAS2822	95,400	71,100	.7500	.018	.009	.0020
NAS2824	129,900	97,100	.8750	.020	.009	.0020
NAS2826	169,600	126,000	1.0000	.022	.009	.0020
NAS2828	214,700	162,000	1.1250	.025	.009	.0020
NAS2830	265,100	202,000	1.2500	.028	.012	.0020

TABLE I – DIMENSIONS AND STRENGTH VALUES (CONTINUED)

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BASIC PART NUMBER	FATIGUE LOADING (LBF) ALLOY STEEL AND CRES		FATIGUE LOADING (LBF) TITANIUM	
	HIGH TENSION	LOW TENSION	HIGH TENSION	LOW TENSION
	LOAD	LOAD	LOAD	LOAD
NAS2813	1,760	176	1,560	156
NAS2814	3,140	314	2,790	279
NAS2815	5,000	500	4,440	444
NAS2816	7,700	770	6,840	684
NAS2817	10,400	1,040	9,280	928
NAS2818	13,900	1,390	12,400	1,240
NAS2819	17,600	1,760	15,700	1,570
NAS2820	22,000	2,200	19,600	1,960
NAS2822	32,000	3,200	28,400	2,840
NAS2824	43,700	4,370	38,800	3,880
NAS2826	56,700	5,670	50,400	5,040
NAS2828	72,900	7,290	64,800	6,480
NAS2830	90,900	9,090	80,800	8,080
HIGH TENSION LOAD = .45 X Ft _u			HIGH TENSION LOAD = .40 X Ft _u	

MATERIAL:

ALLOY STEEL - 4140 (UNS G41400) PER AMS6382, E4340 (UNS G43400) PER AMS-S-5000 OR AMS6484, 4340 (UNS G43406) PER AMS6415, OR 8740 (UNS G87400) PER AMS6322.

TITANIUM ALLOY - 6AL-6V-2SN (UNS R56620) PER AMS4971.

CRES - A286 (UNS S66286) CONFORMING TO THE CHEMISTRY OF AMS5731, AMS5732, AMS5737 OR AMS5853.

HEAT TREATMENT:

HEAT TREAT: DEVELOP BASIC MATERIAL PROPERTIES AS FOLLOWS, WITH CONTROLS PER AMS-H-6875 OR AMS2759 FOR ALLOY STEEL AND CRES AND AMS-H-81200 OR AMS2801 FOR TITANIUM.

ALLOY STEEL: 180-200 KSI FTU

CRES: 180-210 KSI FTU

TITANIUM (6AL-6V-2SN): 180 KSI FTU MIN

REVISION

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NAS2813 THRU
NAS2830
SHEET 2



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