

FED SUPPLY CLASS

5306

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC.
1000 WILSON BLVD.
ARLINGTON, VA 22209

THIS DRAWING SUPERSEDES ALL ANTECEDENT STANDARD DRAWINGS FOR THE SAME
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REVISION DATE.

REVISION DATE: DECEMBER 21, 2012

ISSUE DATE: OCTOBER 2002

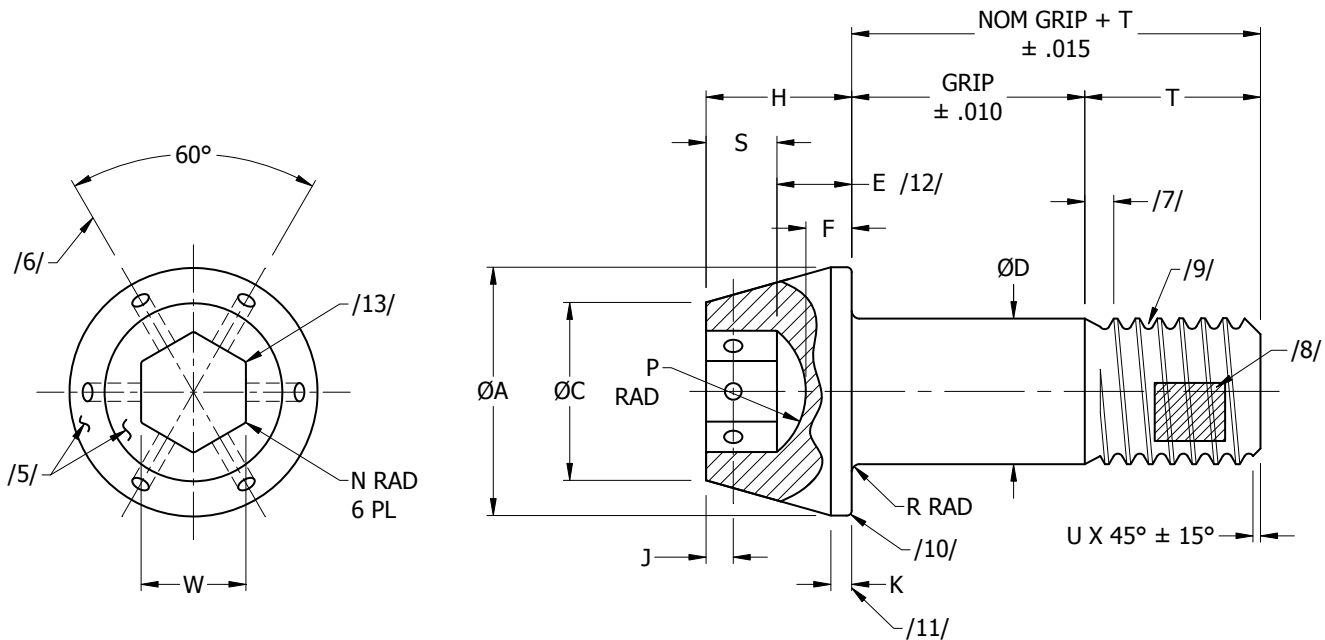
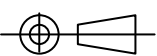


TABLE I - DIMENSIONS /14/

THREAD SIZE DASH NUMBER	THREADS -3A	ØD		ØD /15/	ØA ±.005	ØC	H	E	F	S	W	
		MAX	MIN	MAX				MIN	MIN	MIN	MAX	MIN
04	.1120-40 UNJC	.1112	.1097	.1122	.198	.154	.112	.042	.034	.051	.0952	.0937
06	.1380-32 UNJC	.1372	.1357	.1382	.245	.191	.138	.052	.042	.064	.1111	.1094
08	.1640-32 UNJC	.1632	.1617	.1642	.276	.217	.164	.062	.049	.077	.1426	.1406
3	.1900-32 UNJF	.1892	.1877	.1902	.323	.252	.190	.072	.057	.090	.1587	.1562
4	.2500-28 UNJF	.2492	.2477	.2502	.433	.342	.250	.104	.068	.120	.1900	.1880
5	.3125-24 UNJF	.3117	.3102	.3127	.526	.394	.312	.131	.094	.151	.2210	.2190
6	.3750-24 UNJF	.3742	.3727	.3752	.644	.520	.375	.157	.116	.182	.3150	.3130
7	.4375-20 UNJF	.4367	.4347	.4372	.745	.534	.438	.183	.141	.213	.3150	.3130
8	.5000-20 UNJF	.4991	.4971	.5002	.823	.625	.500	.209	.169	.245	.3785	.3755
9	.5625-18 UNJF	.5616	.5596	.5627	.933	.723	.562	.235	.190	.276	.4410	.4380
10	.6250-18 UNJF	.6240	.6220	.6252	1.045	.826	.625	.262	.216	.307	.5035	.5005
12	.7500-16 UNJF	.7488	.7468	.7502	1.225	.921	.750	.314	.273	.370	.5660	.5630
14	.8750-14 UNJF	.8737	.8707	.8752	1.433	1.083	.875	.366	.327	.432	.6295	.6257

① COMPLETELY REVISED

THIRD
ANGLE
PROJECTION



CUSTODIAN
NATIONAL AEROSPACE STANDARDS COMMITTEE

REVISION
1

PROCUREMENT
SPECIFICATION

NOTED

TITLE
**BOLT, SHEAR, INTERNAL WRENCHING, SHORT THREAD,
SELF-LOCKING AND NON-LOCKING,
6AL-4V TITANIUM AND A286 CRES, 160 KSI FtU**

CLASSIFICATION
PART STANDARD

NAS9921
SHEET 1 OF 6
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TABLE I – DIMENSIONS (CONTINUED) /14/

THREAD SIZE DASH NUMBER	J	K	ØM +.005 -.000	N RAD MAX	P RAD +.010 -.005	R RAD		(T) MIN	U ±.016	CONCENTRICITY		
						MAX	MIN			X	Y	Z
04	.039	.031	.037	.010	.010	.009	.005	.250	.031	.010	.010	.003
06	.043	.031	.037	.010	.010	.010	.006	.276	.031	.010	.010	.003
08	.051	.047	.037	.010	.010	.012	.007	.323	.031	.010	.010	.003
3	.058	.047	.037	.010	.010	.014	.009	.323	.031	.010	.010	.003
4	.078	.063	.037	.010	.010	.014	.009	.370	.031	.010	.010	.0045
5	.094	.063	.055	.010	.010	.017	.012	.438	.047	.010	.010	.0045
6	.125	.063	.055	.011	.010	.020	.015	.454	.047	.010	.010	.0045
7	.156	.063	.055	.011	.010	.023	.018	.528	.047	.010	.011	.006
8	.172	.063	.055	.011	.010	.026	.020	.528	.047	.010	.012	.006
9	.203	.094	.055	.011	.010	.026	.020	.594	.047	.011	.014	.006
10	.234	.094	.055	.019	.010	.032	.024	.626	.062	.012	.016	.006
12	.281	.094	.055	.022	.020	.039	.030	.666	.062	.015	.018	.006
14	.344	.094	.055	.022	.020	.044	.034	.759	.078	.018	.022	.009

TABLE II – STRENGTH VALUES

THREAD SIZE	ULTIMATE TENSILE STRENGTH /16/ /4/				ULTIMATE DOUBLE SHEAR STRENGTH		
	MINIMUM LENGTH TO BE TENSILE TESTED	MINIMUM STRENGTH (LBS)		MAX LOAD RATE LBS/MINUTE	MINIMUM GRIP TO BE SHEAR TESTED	DOUBLE SHEAR STRENGTH (LB) MINIMUM	MAX LOAD RATE LBS/MINUTE
		NON LOCKING AND SELF- LOCKING TYPE P	SELF- LOCKING EXCEPT TYPE P				
.1120-40	.25	970	800	330	.23	1800	900
.1380-32	.25	1450	1250	500	.28	2900	1500
.1640-32	.31	2240	2030	750	.33	4000	2000
.1900-32	.38	3180	2930	1000	.38	5400	2800
.2500-28	.50	5820	5820	1800	.50	9300	4900
.3125-24	.63	9200	9200	2900	.63	14600	7700
.3750-24	.75	14000	14000	4300	.75	21000	11000
.4375-20	.88	18900	18900	6500	.88	28600	15000
.5000-20	1.00	25600	25600	8000	1.00	37300	20000
.5625-18	1.12	32400	32400	10000	1.12	47200	25000
.6250-18	1.25	41000	41000	12700	1.25	58300	31000
.7500-16	1.50	59500	59500	18500	1.50	83900	44000
.8750-14	1.75	81500	81500	25200	1.75	114200	60000

MATERIAL: TITANIUM ALLOY – 6AL-4V (UNS R56400) PER AMS4928 OR AMS4967.
CRES – A286 (UNS S66286) CONFORMING TO THE CHEMISTRY OF AMS5731, AMS5732, AMS5737 OR AMS5853.

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

TITANIUM: 160 KSI Ft_u MIN.

CRES: 160-190 KSI Ft_u. PRECIPITATION HARDENING PER AMS5853. /4/

REVISION

1

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SHEET 2

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