

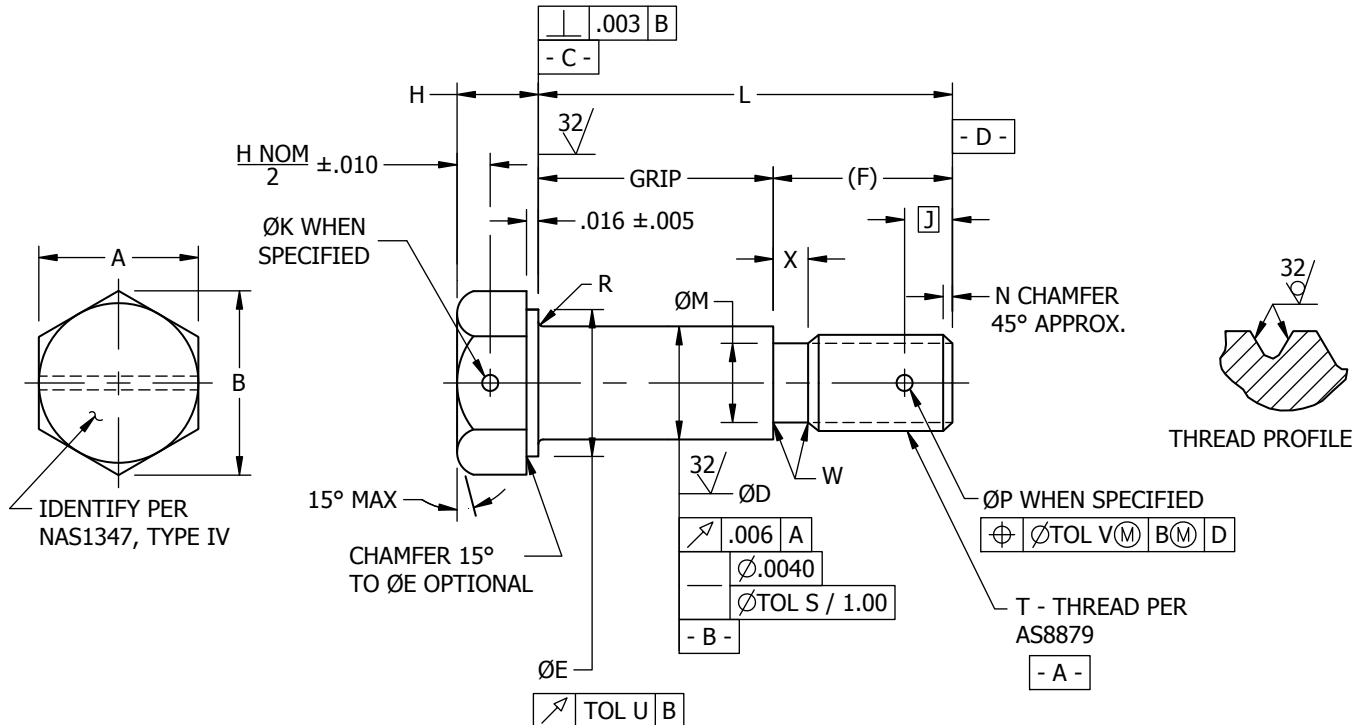
FED. SUPPLY CLASS

5306

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

THIS DRAWING SUPERSEDES ALL ANTECEDENT STANDARD DRAWINGS FOR THE SAME
PRODUCT AND SHALL BECOME EFFECTIVE NO LATER THAN SIX MONTHS FROM THE LAST
REVISION DATE.

FORM 12-01



6 TABLE I - DIMENSIONS

FIRST DASH NO.	T THREAD SIZE	A ACROSS FLATS		B MIN	ØD SHOULDER		ØE MIN /8/	(F)	H +.015 -.000	J BASIC	ØK DRILLED HEAD	
		MAX	MIN		MAX	MIN					MAX	MIN
08	.1640-32 UNJC-3A	.314	.305	.348	.1895	.1890	.272	.362	.095	N/A	.052	.042
3	.1900-32 UNJF-3A	.376	.367	.410	.2495	.2490	.335	.362	.110	.163	.070	.060
4	.2500-28 UNJF-3A	.439	.429	.480	.3120	.3115	.398	.453	.125	.178		
5	.3125-24 UNJF-3A	.502	.492	.552	.3745	.3740	.460	.498	.156	.181		
6	.3750-24 UNJF-3A	.564	.554	.623	.4370	.4365	.523	.607	.188	.197	.080	
7	.4375-20 UNJF-3A	.690	.678	.764	.4995	.4990	.648	.629	.219	.201		
8	.5000-20 UNJF-3A	.752	.741	.836	.5620	.5615	.710	.770	.250	.216		
9	.5625-18 UNJF-3A	.877	.865	.978	.6245	.6240	.835	.855	.281	.231		
10	.6250-18 UNJF-3A	.940	.928	1.050	.7495	.7490	.898	.941	.312	.249		
12	.7500-16 UNJF-3A	1.065	1.052	1.191	.8745	.8740	1.023	1.041	.375	.249		

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 6
PROCUREMENT SPECIFICATION NAS4003	TITLE BOLT, SHOULDER, HEX HEAD, CLOSE TOLERANCE, CRES, A286, 95 KSI Fsu	CLASSIFICATION PART STANDARD



NAS1160
SHEET 1 OF 3
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REVISION DATE: DECEMBER 19, 2014
ISSUE DATE: MARCH 01, 1989

⑥ TABLE I – DIMENSIONS (CONTINUED)

FIRST DASH NO.	ØM UNDERCUT /9/		N ±.010	ØP +.010 –.000 DRILLED SHANK	R RAD FILLET		ØS TOL	U TOL	W RAD UNDERCUT		X THREAD RELIEF		MIN TENSILE AT UNDERCUT LBF #12/	V TOL
	MAX	MIN			MAX	MIN			MAX	MIN	MAX	MIN		
08	.119	.115	.025	N/A	.025	.015	.0030	.005	.030	.015	.056	.042	1,660	.010
3	.141	.137	.031	.070	.025	.015	.0030	.006	.030	.020	.062	.047	2,350	
4	.194	.189	.031	.076	.025	.015	.0030	.008	.030	.020	.071	.054	4,500	
5	.249	.244	.047	.076	.025	.015	.0025	.009	.035	.025	.083	.063	7,490	
6	.311	.306	.047	.106	.030	.020	.0025	.010	.050	.025	.083	.063	11,800	.015
7	.362	.356	.047	.106	.030	.020	.0020	.011	.050	.030	.100	.075	15,900	
8	.425	.419	.047	.106	.030	.020	.0020	.012	.050	.030	.100	.075	22,000	
9	.480	.474	.062	.106	.035	.025	.0020	.015	.050	.030	.112	.083	28,200	
10	.542	.534	.062	.106	.035	.025	.0020	.018	.070	.050	.112	.083	35,800	
12	.658	.650	.062	.141	.035	.025	.0020	.020	.070	.050	.125	.094	53,100	

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

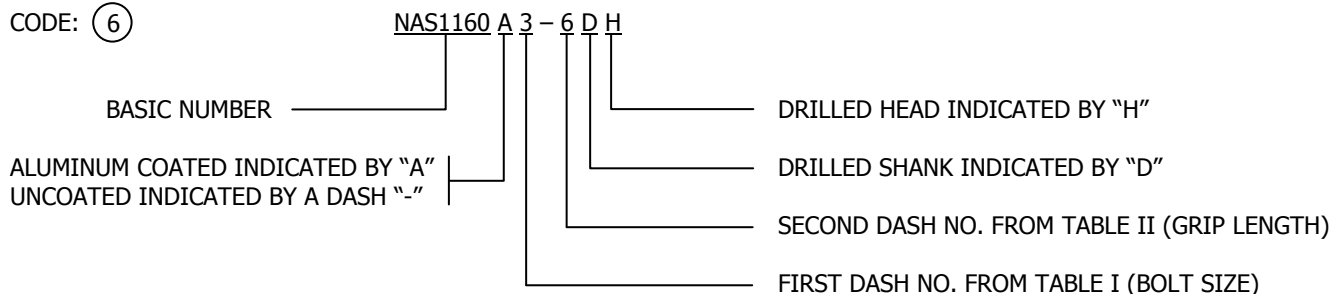
HEAT TREATMENT:

160-190 KSI UTS IN ACCORDANCE WITH PROCUREMENT SPECIFICATION. #12/

FINISH: UNCOATED AND COATED BOLTS - PASSIVATE IN ACCORDANCE WITH AMS2700 METHOD 1, TYPE 2 OR TYPE 8, CLASS 4.

ALUMINUM COAT ALL SURFACES, EXCEPT "ØD" AND WASHER FACE, IN ACCORDANCE WITH NAS4006 WHEN SPECIFIED.

CODE: ⑥



EXAMPLE OF PART NUMBER:

NAS1160A3-6DH = BOLT, SHOULDER, HEX HEAD, CLOSE TOLERANCE, CRES A286; ALUMINUM COATED; .1900-32 UNJF-3A; .385 GRIP; DRILLED SHANK AND DRILLED HEAD

NAS1160-3-6DH = BOLT, SHOULDER, HEX HEAD, CLOSE TOLERANCE, CRES A286; UNCOATED; .1900-32 UNJF-3A; .385 GRIP; DRILLED SHANK AND DRILLED HEAD

NAS1160A3-6 = BOLT, SHOULDER, HEX HEAD, CLOSE TOLERANCE, CRES A286; ALUMINUM COATED; .1900-32 UNJF-3A; .385 GRIP

NOTES:

- (1) DIMENSIONS ARE IN INCHES.
- (2) DIMENSIONS APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.

REVISION

6

NAS1160
SHEET 2



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