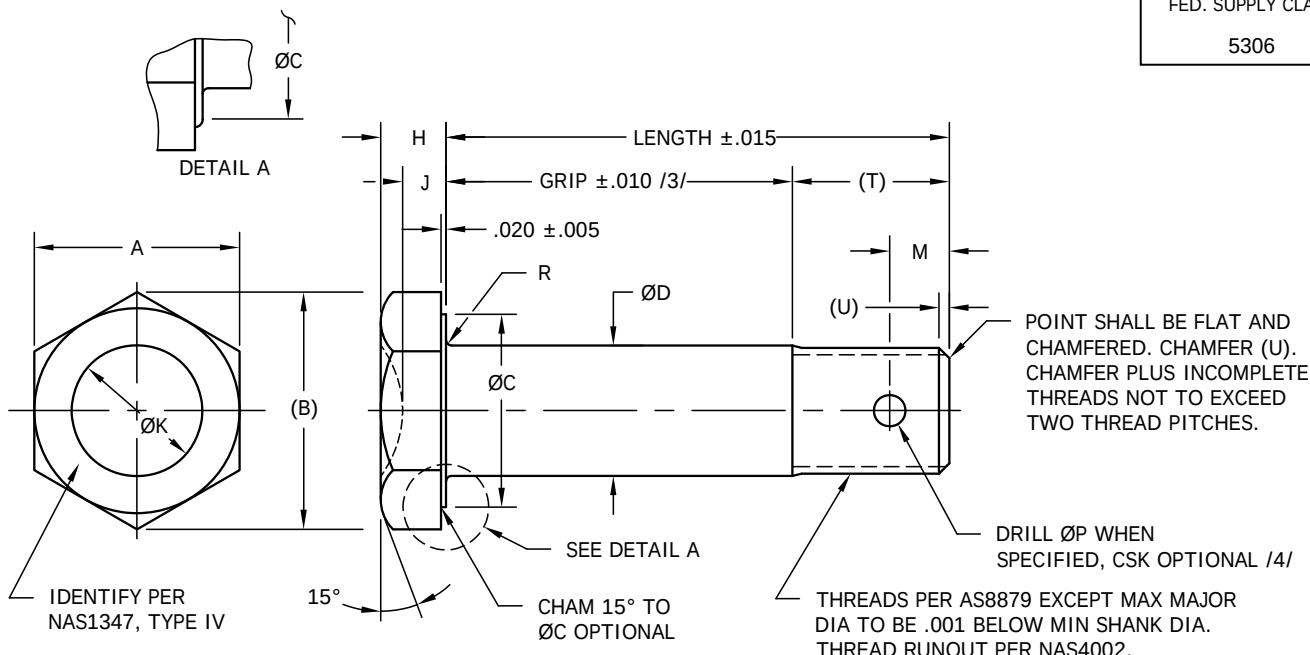


FED. SUPPLY CLASS

5306



BASIC PART NUMBER	THREAD UNJF-3A	A	(B)	ØC MIN /7/	ØD	H +.015 -0.000	J +.015 -0.000	ØK ±.01	M ±.010	ØP /4/ +.010 -0.000	R RAD
NAS1103	.1900-32	.376 .367	.43	.335	.1895 .1885	.110	.073	.19	.117	.070	.020 .010
NAS1104	.2500-28	.439 .430	.51	.398	.2495 .2485	.125	.083	.25	.116	.076	.020 .010
NAS1105	.3125-24	.502 .492	.58	.460	.3120 .3110	.156	.104	.31	.119	.076	.020 .010
NAS1106	.3750-24	.564 .553	.65	.523	.3745 .3735	.188	.125	.38	.120	.106	.025 .015
NAS1107	.4375-20	.690 .679	.79	.648	.4370 .4360	.219	.146	.44	.124	.106	.025 .015
NAS1108	.5000-20	.752 .741	.87	.710	.4995 .4985	.250	.167	.50	.123	.106	.030 .020
NAS1109	.5625-18	.877 .865	1.01	.835	.5615 .5605	.281	.188	.56	.124	.141	.035 .020
NAS1110	.6250-18	.940 .928	1.09	.898	.6240 .6230	.312	.208	.62	.124	.141	.040 .025
NAS1112	.7500-16	1.064 1.052	1.23	1.023	.7490 .7480	.375	.250	.75	.128	.141	.045 .030
NAS1114	.8750-14	1.252 1.239	1.44	1.210	.8740 .8730	.438	.292	.88	.134	.141	.050 .035
NAS1116	1.0000-12	1.440 1.427	1.66	1.398	.9990 .9980	.500	.333	1.00	.139	.141	.060 .045
NAS1118	1.1250-12	1.627 1.614	1.88	1.585	1.1240 1.1225	.562	.375	1.12	.170	.141	.070 .055
NAS1120	1.2500-12	1.815 1.801	2.10	1.772	1.2490 1.2475	.625	.417	1.25	.170	.141	.075 .060

INACTIVE FOR DESIGN AFTER JULY 1, 1976. SEE NAS6203 THRU NAS6220. FOR DESCRIPTION OF STATUS NOTES, SEE NAS380.

(11) COMPLETELY REVISED

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 11
PROCUREMENT SPECIFICATION NOTED	TITLE BOLT, SHEAR, HEXAGON HEAD MODIFIED, 95 KSI Fsu, SHORT THREAD	CLASSIFICATION PART STANDARD

NAS 1103-1120
SHEET 1 OF 4



Document Sharing Hub

BASIC PART NUMBER	(T)	(U)	INSPECTION DATA			
			X /1/	Y /1/	Z /2/	ULT TNSL LBS MIN /8/
NAS1103	.276	.016	.005	.0045	.0040	2,490
NAS1104	.316	.018	.006	.0045	.0030	4,520
NAS1105	.375	.021	.008	.0045	.0030	7,240
NAS1106	.391	.021	.009	.006	.0025	10,950
NAS1107	.453	.025	.010	.006	.0025	14,800
NAS1108	.453	.025	.011	.006	.0020	19,950
NAS1109	.511	.028	.012	.006	.0020	25,300
NAS1110	.543	.028	.015	.006	.0020	31,950
NAS1112	.572	.031	.018	.009	.0020	46,550
NAS1114	.652	.036	.020	.009	.0020	63,600
NAS1116	.770	.042	.022	.009	.0020	82,800
NAS1118	.864	.042	.025	.009	.0020	106,900
NAS1120	.958	.042	.028	.012	.0020	134,000

MATERIAL: ALLOY STEEL - 4140 (UNS G41400) PER MIL-S-5626, AMS6349 OR AMS6382, E4340 (UNS G43406) PER MIL-S-5000; AMS6415 OR AMS6484, OR 8740 (UNS G87400) PER MIL-S-6049, AMS6322, AMS6325 OR AMS6327 OR 8735 (UNS G87350) MIL-S-6098 OR 6150 (UNS G61500) PER MIL-S-8503.

HEAT TREATMENT: DEVELOP BASIC MATERIAL PROPERTIES AS FOLLOWS, WITH CONTROLS PER AMS-H-6875 OR AMS2759: 160-180 KSI Ft_u

FINISH: NO CODE - CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2.
"W" CODE - CADMIUM PLATE PER AMS-QQ-P-416, TYPE I, CLASS 3.

CODE: DASH NUMBER DESIGNATES GRIP AND LENGTH (SEE SHEET 4).
BASIC PART NUMBER = UNDRILLED SHANK ONLY.
ADD "D" AFTER DASH NUMBER FOR DRILLED BOLTS. /8/
ADD "W" AFTER DASH NUMBER FOR TYPE I PLATING.
ARRANGE CODE LETTERS ALPHABETICALLY, WHERE APPLICABLE.

EXAMPLES: NAS1104-10 = .2500-28 BOLT, .625 GRIP, UNDRILLED SHANK, TYPE II PLATING.
NAS1104-10D = .2500-28 BOLT, .625 GRIP, DRILLED SHANK, TYPE II PLATING.
NAS1104-10W = .2500-28 BOLT, .625 GRIP, UNDRILLED SHANK, TYPE I PLATING.
NAS1104-10DW = .2500-28 BOLT, .625 GRIP, DRILLED SHANK, TYPE I PLATING.

NOTES: /1/ CONCENTRICITY: "ØC" AND "ØD" WITHIN "X" VALUES FIM. "ØD" AND THREAD PITCH DIAMETER WITHIN "Y" VALUES FIM.
/2/ SHANK STRAIGHTNESS: WITHIN "Z" VALUES FIM PER INCH OF LENGTH.
/3/ GRIP LENGTH: FROM UNDERSIDE OF HEAD TO END OF FULL CYLINDRICAL PORTION OF SHANK.
/4/ COTTER PIN HOLE CENTERLINE: WITHIN .010 AND NORMAL WITHIN 2° OF BOLT CENTERLINE.

**INACTIVE FOR DESIGN AFTER JULY 1, 1976. SEE NAS6203 THRU NAS6220.
FOR DESCRIPTION OF STATUS NOTES, SEE NAS380.**

⑪ COMPLETELY REVISED

REVISION

11

NAS Documents
SHEET 2



Document Sharing Hub