

FED. SUPPLY CLASS

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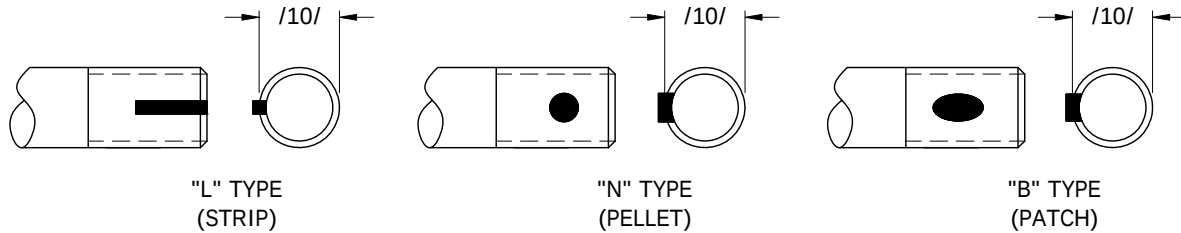
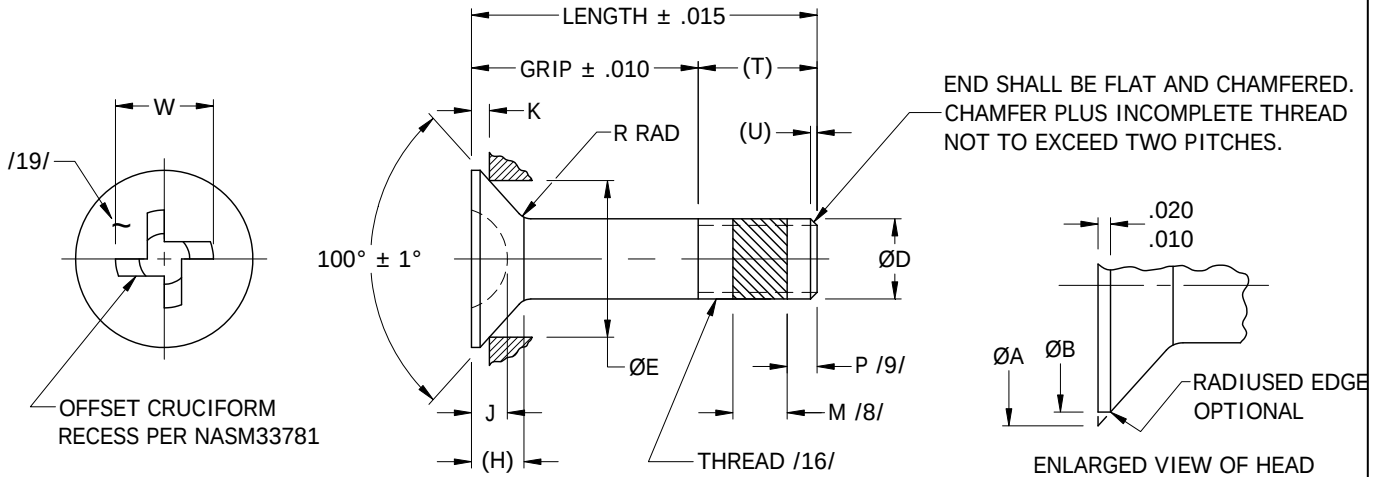


TABLE I – DIMENSIONS AND STRENGTH VALUES

BASIC PART NUMBER	THREAD /16/	ØD	ØA	ØB	(H)	R RAD	(T)	(U)	J	W
			MIN						MAX	MAX
NAS1161	.1380-32 UNJC-3A	.1375 .1365	.279 .269	.211	.057	.010 .005	.338	.016	.066	.182
NAS1162	.1640-32 UNJC-3A	.1635 .1625	.338 .328	.280	.068	.020 .010	.338	.016	.078	.215
NAS1163	.1900-32 UNJF-3A	.1895 .1885	.385 .376	.328	.080	.020 .010	.338	.016	.090	.248
NAS1164	.2500-28 UNJF-3A	.2495 .2485	.507 .497	.449	.106	.020 .010	.425	.018	.118	.325
NAS1165	.3125-24 UNJF-3A	.3120 .3110	.635 .625	.577	.133	.020 .010	.469	.021	.122	.357
NAS1166	.3750-24 UNJF-3A	.3745 .3735	.762 .752	.704	.160	.025 .015	.578	.021	.145	.427
NAS1167	.4375-20 UNJF-3A	.4370 .4360	.890 .880	.832	.188	.025 .015	.594	.025	.169	.498
NAS1168	.5000-20 UNJF-3A	.4995 .4985	1.017 1.007	.959	.215	.030 .020	.735	.025	.193	.568

11 COMPLETELY REVISED



CUSTODIAN
NATIONAL AEROSPACE STANDARDS COMMITTEE

REVISION
11

PROCUREMENT SPECIFICATION

TITLE

11

NOTED

SCREW, SELF-LOCKING, FLAT 100° HEAD, SHEAR, OFFSET CRUCIFORM

CLASSIFICATION
PART STANDARD

NAS1161 THRU
NAS1168

SHEET 1 OF 5



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TABLE I – DIMENSIONS AND STRENGTH VALUES (CONTINUED)

BASIC PART NUMBER	INSPECTION DATA							
	HEAD GAGING		FIM VALUE				TEST VALUES	
	K HEAD PROTRUSION /10/	ØE GAGE CIRCLE /10/	Y /1/	Z /2/	RECESS GAGE PENETRATION /3/		TORQUE IN-LBF MIN	TENSILE STRENGTH LBF MIN /20/
					MAX	MIN		ALLOY STEEL, TITANIUM & CRES (160 KSI)
NAS1161	— —	— —	.0045	.0040	.0500	.0395	24	1,450
NAS1162	.0268 .0240	.2671 .2667	.0045	.0040	.0595	.0480	37	2,240
NAS1163	.0290 .0263	.3147 .3143	.0045	.0040	.0685	.0560	50	3,180
NAS1164	.0342 .0316	.4245 .4241	.0045	.0030	.0890	.0750	125	5,820
NAS1165	.0395 .0370	.5389 .5385	.006	.0030	.0860	.0700	250	9,200
NAS1166	.0450 .0426	.6532 .6528	.006	.0025	.1030	.0850	430	14,000
NAS1167	.0503 .0481	.7676 .7672	.006	.0025	.1205	.1005	925	18,900
NAS1168	.0557 .0537	.8820 .8816	.006	.0020	.1375	.1155	1,210	25,600

MATERIAL:

- ALLOY STEEL - 4140 (UNS G41400) PER MIL-S-5626 AMS6382, 4340 (UNS G43406) PER MIL-S-5000 AMS6415 OR AMS6484, OR 8740 (UNS G87400) PER MIL-S-6049 AMS6327, AMS6322 OR AMS6325.
- CRES - A286 (UNS S66286) CONFORMING TO THE CHEMISTRY OF AMS5731, AMS5732, AMS5737 AND AMS5835, EXCEPT FOR HEAT TREATMENT, DESIGNATED BY "E" CODE.
- LOCKING ELEMENT - NYLON OR EQUIVALENT, COLOR PER MIL-DTL-18240, 250 °F MAX. POLYTRIFLUOROCHLOROETHYLENE UNPLASTICIZED (PCTFE) PER AMS3650, COLOR OPTIONAL, 390 °F MAX. POLYETHYLENE TEREPHTHALATE (POLYESTER) PER AMS3612, COLOR OPTIONAL, 400 °F MAX.
- TITANIUM ALLOY - 6AL-4V (UNS R56400) PER AMS4928 OR AMS4967.

HEAT TREATMENT:

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

ALLOY STEEL: 160-180 KSI Ft_u
CRES: 160-190 KSI Ft_u /20/
TITANIUM ALLOY: 160 KSI Ft_u MIN

FINISH:

- ALLOY STEEL NO CODE - CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2.
"C" CODE - CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2 WITH DULL BLACK CHROMATE TREATMENT.
- CRES NO CODE - CLEAN AND PASSIVATE IN ACCORDANCE WITH AMS2700, METHOD 1, CLASS 4.
"P" CODE - CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2.
- TITANIUM ALLOY NO CODE - NONE.
"A" CODE - ALUMINUM COAT PER NAS4006.

REVISION

11

NAS1161 THRU
NAS1168

SHEET 2

11 COMPLETELY REVISED