

FED. SUPPLY CLASS

5305

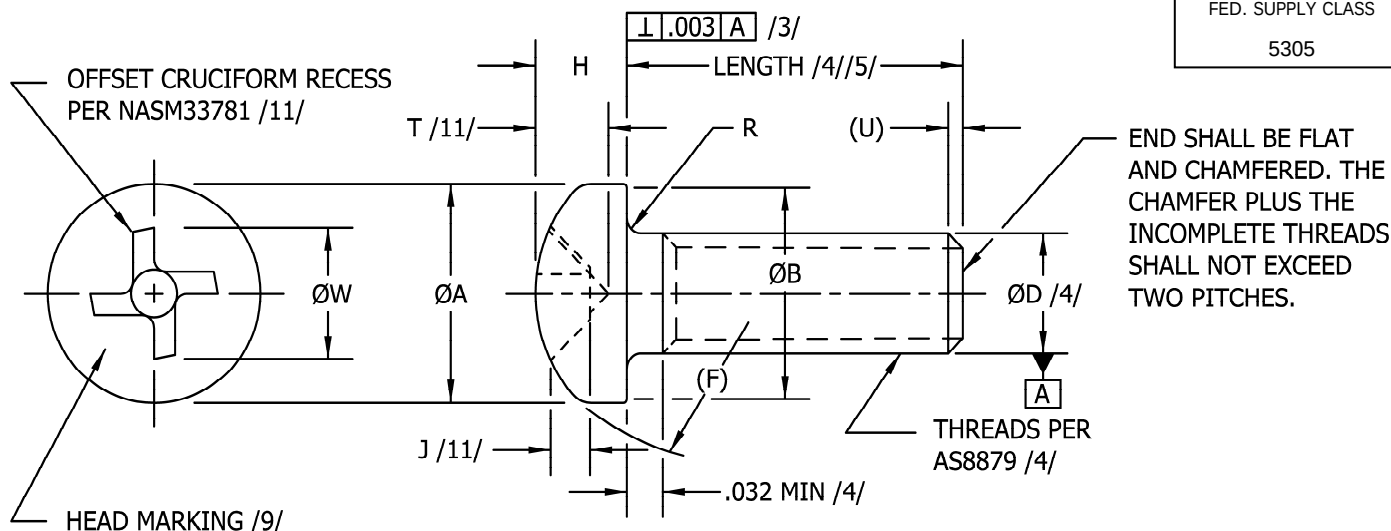


FIGURE 1 - CONFIGURATION

TABLE I - DIMENSIONS AND STRENGTH / 1/ / 2/

BASIC PART NUMBER AND DASH NUMBER	THREAD AS8879 / 4/	ØA	ØB MIN	ØD / 4/	(F) RADIUS	H	J GAGE PENE- TRATION / 11/	CR RADIUS	T RECESS DEPTH MAX / 11/	(U)	ØW MAX	TENSILE STRENGTH POUNDS MIN / 6/	
												160 KSI ALLOY STEEL, CRES, TI	140 KSI CRES / 13/
NAS1100-00	.0600-80 UNJF-3A	.116 .104	.104	.0600 .0506	.091	.044 .036	.0180 .0100	.010 .005	.026	.010	.073	288	~~252~~
NAS1100-01	.0730-64 UNJC-3A	.143 .130	.130	.0730 .0614	.111	.053 .044	.0215 .0130	.010 .005	.031	.010	.087	420	~~368~~
NAS1100-02	.0860-56 UNJC-3A	.167 .155	.149	.0860 .0728	.132	.063 .053	.0250 .0160	.010 .005	.036	.010	.102	591	~~518~~
NAS1100-04	.1120-40 UNJC-3A	.219 .205	.195	.1120 .0939	.173	.080 .070	.0320 .0220	.010 .005	.046	.013	.131	966	~~845~~
NAS1100-06	.1380-32 UNJC-3A	.270 .256	.242	.1380 .1156	.207	.097 .087	.0390 .0285	.010 .005	.055	.016	.160	1,450	~~1,270~~
NAS1100-08	.1640-32 UNJC-3A	.322 .306	.289	.1640 .1415	.244	.115 .105	.0470 .0355	.020 .010	.065	.016	.190	2,240	~~1,960~~
NAS1100-3	.1900-32 UNJF-3A	.373 .357	.331	.1900 .1674	.284	.133 .122	.0540 .0415	.020 .010	.075	.016	.219	3,180	~~2,800~~
NAS1100-4	.2500-28 UNJF-3A	.492 .473	.424	.2500 .2243	.373	.175 .162	.0695 .0555	.020 .010	.098	.018	.286	5,820	~~5,100~~
NAS1100-5	.3125-24 UNJF-3A	.615 .594	.518	.3125 .2827	.527	.218 .203	.0860 .0700	.020 .010	.122	.021	.357	9,200	~~8,120~~
NAS1100-6	.3750-24 UNJF-3A	.740 .716	.611	.3750 .3450	.652	.261 .244	.1030 .0850	.025 .015	.145	.021	.427	14,000	~~12,300~~

INACTIVE FOR DESIGN AFTER 9/20/81. SEE NAS1101.

⑩ COMPLETELY REVISED



THIRD
ANGLE
PROJECTION

CUSTODIAN

NATIONAL AEROSPACE STANDARDS COMMITTEE

REVISION
10

PROCUREMENT
SPECIFICATION

NOTED

TITLE

**SCREW, PAN HEAD, FULL THREAD,
OFFSET CRUCIFORM RECESS, 160 KSI Ftu**

CLASSIFICATION
PART STANDARD

NAS1100
SHEET 1 OF 3

MATERIAL: ALLOY STEEL - FOR 4140: 4140 (UNS G41400) PER ~~MIL-S-5626~~, AMS6349 OR AMS6382.
 FOR 4340: 4340 (UNS G43406) PER ~~MIL-S-5000~~, ~~AMS6409~~, AMS6415 OR AMS6484.
 FOR 6150: 6150 (UNS G61500) PER ~~MIL-S-8503~~, ~~AMS-S-8503~~ OR AMS6448.
 FOR 8735: 8735 (UNS G87350) PER ~~AMS-S-6098~~, AMS6325, AMS6327 OR AMS6320.
 FOR 8740: 8740 (UNS G87400) PER ~~MIL-S-6049~~, ~~AMS-S-6049~~ OR AMS6322.

CRES - A286 (UNS S66286) EXCEPT FOR HEAT TREATMENT, DESIGNATED BY "E"-CODE.
 CONFORMING TO THE CHEMISTRY OF AMS5731, AMS5732, AMS5737 OR AMS5853./13/

TITANIUM - 6Al-4V (UNS R56400) PER AMS4928 OR AMS4967.

HEAT TREATMENT: DEVELOP BASIC MATERIAL PROPERTIES AS FOLLOWS, WITH CONTROLS PER ~~AMS-H-6875~~ 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
- ~~CRES: 140 KSI Ft_u~~
- TITANIUM: 160 KSI Ft_u MIN

FINISH: ALLOY STEEL - CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2. OPTIONAL CADMIUM PLATING MAY BE SPECIFIED AS PRESCRIBED IN THE CODE SECTION.
 AMS-QQ-P-416, TYPE I, CLASS 2.
 AMS-QQ-P-416, TYPE II, CLASS 2, CADMIUM PLATING WITH DULL BLACK CHROMATE TREATMENT.

CRES: - PASSIVATE PER AMS2700, METHOD 1, CLASS 4. OPTIONAL CADMIUM PLATING MAY BE SPECIFIED AS PRESCRIBED IN THE CODE SECTION.
 AMS-QQ-P-416, TYPE I, CLASS 2,
 AMS-QQ-P-416, TYPE II, CLASS 2 OR
 AMS-QQ-P-416, TYPE II, CLASS 2, WITH DULL BLACK CHROMATE TREATMENT.

TITANIUM: - NONE.
~~OPTIONAL PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2, DESIGNATED BY THE "P" CODE. /17/~~

CODE: FIRST DASH NUMBER DESIGNATES DIAMETER AND THREAD.
 SECOND DASH NUMBER DESIGNATES LENGTH IN .062 INCREMENTS (CONVERTED TO THREE DECIMAL PLACES).
 INTERMEDIATE OR LONGER LENGTHS MAY BE SPECIFIED BY USE OF WHOLE DASH NUMBERS ONLY.
 USE OF .25 INCH INCREMENTS IS RECOMMENDED FOR SCREWS LONGER THAN 3 INCHES.
 "B" FOLLOWING LAST DASH NUMBER DESIGNATES CADMIUM PLATING PER AMS-QQ-P-416, TYPE II, CLASS 2,
 WITH A DULL BLACK CHROMATE TREATMENT.
~~"C" IN LIEU OF FIRST DASH DESIGNATES CORR. RES. STEEL (140 KSI). /13/~~
 "E" IN LIEU OF FIRST DASH DESIGNATES CRES (A286 160KSI).
 "P" FOLLOWING LAST DASH NUMBER DESIGNATES CADMIUM PLATING PER AMS-QQ-P-416, TYPE II, CLASS 2,
 (CRES ONLY).
 "V" IN LIEU OF FIRST DASH DESIGNATES TITANIUM ALLOY.
 "W" FOLLOWING SECOND DASH NUMBER DESIGNATES CADMIUM PLATING PER AMS-QQ-P-416, TYPE I, CLASS 2.

EXAMPLE: NAS1100-3-8 DESIGNATES .1900-32 SCREW, .500 LENGTH, ALLOY STEEL, TYPE II, CLASS 2 PLATING.
~~NAS1100C5-10 DESIGNATES .3125-24 SCREW, .625 LENGTH, CRES (140 KSI). /18/~~
 NAS1100-5-10W DESIGNATES .3125-24 SCREW, .625 LENGTH, ALLOY STEEL, TYPE I, CLASS 2 PLATING.
 NAS1100E5-10P DESIGNATES .3125-24 SCREW, .625 LENGTH, CRES (160 KSI), TYPE II, CLASS 2 PLATING.
~~NAS1100V5-12P DESIGNATES .3125-24 SCREW, .750 LENGTH, TITANIUM ALLOY, TYPE II, CLASS 2, PLATING. /17/~~
 NAS1100E5-10 DESIGNATES .3125-24 SCREW, .625 LENGTH, CRES (160 KSI).
 NAS1100V5-12 DESIGNATES .3125-24 SCREW, .750 LENGTH, TITANIUM ALLOY.

INACTIVE FOR DESIGN AFTER 9/20/81. SEE NAS1101

⑩ COMPLETELY REVISED

REVISION 10
NAS1100 Documents

