

FED. SUPPLY CLASS

5305

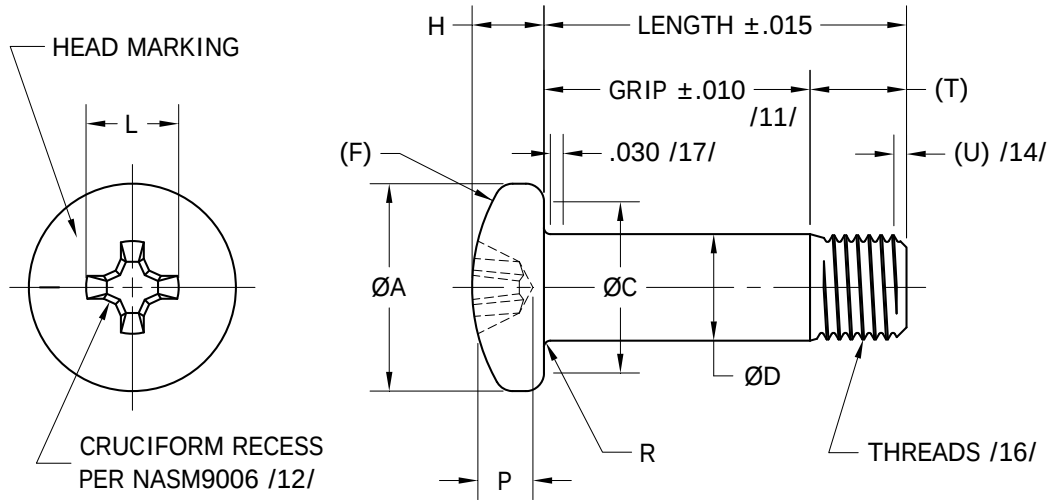


TABLE I – DIMENSIONS

| FIRST DASH NUMBER | NOMINAL THREAD SIZE PER AS8879 | ØA           | ØC MIN | ØD             | (F) RAD /13/ | H            | L /12/       | P MAX /12/ | R RAD        |
|-------------------|--------------------------------|--------------|--------|----------------|--------------|--------------|--------------|------------|--------------|
| 2                 | .1640-32 UNJC-3A               | .322<br>.306 | .289   | .1635<br>.1610 | .24          | .115<br>.105 | .179<br>.169 | .127       | .020<br>.010 |
| 3                 | .1900-32 UNJF-3A               | .373<br>.357 | .331   | .1895<br>.1870 | .28          | .133<br>.122 | .196<br>.186 | .145       | .020<br>.010 |
| 4                 | .2500-28 UNJF-3A               | .492<br>.473 | .424   | .2495<br>.2470 | .37          | .175<br>.162 | .278<br>.268 | .192       | .020<br>.010 |
| 5                 | .3125-24 UNJF-3A               | .615<br>.594 | .518   | .3120<br>.3095 | .53          | .218<br>.203 | .347<br>.337 | .227       | .020<br>.010 |
| 6                 | .3750-24 UNJF-3A               | .740<br>.716 | .611   | .3745<br>.3720 | .65          | .261<br>.244 | .390<br>.380 | .266       | .025<br>.015 |

⑧ COMPLETELY REVISED

|                                     |                                                                                                 |                                 |
|-------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
| THIRD ANGLE PROJECTION              | CUSTODIAN<br>NATIONAL AEROSPACE STANDARDS COMMITTEE                                             | REVISION<br><b>8</b>            |
| PROCUREMENT SPECIFICATION<br>NAS498 | TITLE<br><b>SCREW, SHEAR, PAN HEAD, ALLOY STEEL, CRUCIFORM RECESS, SHORT THREAD, 95 KSI Fsu</b> | CLASSIFICATION<br>PART STANDARD |



**NAS623**

SHEET 1 OF 5

Document Sharing Hub

TABLE I – DIMENSIONS (CONTINUED)

| FIRST DASH NUMBER | (T) /13/ | (U) /13/ | X /9/ | Y /9/ | Z /10/ | RECESS GAGE PENETRATION /12/ |      | MINIMUM TENSILE STRENGTH POUNDS |
|-------------------|----------|----------|-------|-------|--------|------------------------------|------|---------------------------------|
|                   |          |          |       |       |        | MAX                          | MIN  |                                 |
| 2                 | .276     | .016     | .005  | .0045 | .0040  | .094                         | .071 | 1,740                           |
| 3                 | .276     | .016     | .005  | .0045 | .0040  | .110                         | .089 | 2,490                           |
| 4                 | .316     | .018     | .006  | .0045 | .0030  | .141                         | .118 | 4,520                           |
| 5                 | .375     | .021     | .008  | .0045 | .0030  | .170                         | .149 | 7,240                           |
| 6                 | .391     | .021     | .009  | .0060 | .0025  | .210                         | .190 | 10,950                          |

**MATERIAL:** ALLOY STEEL – 4140 (UNS G41400) PER MIL-S-5626 AMS6382, ~~4340 (UNS G43400)~~ 4340 (UNS G43406) PER ~~MIL-S-5000~~ AMS6415 OR AMS6484, OR 8740 (UNS G87400) PER ~~MIL-S-6049~~ AMS6322, AMS6325 OR AMS6327.

**HEAT TREAT:** DEVELOP BASIC MATERIAL PROPERTIES AS FOLLOWS, WITH CONTROLS PER ~~AMS-H-6875~~ OR AMS2759.  
ALLOY STEEL: 160-180 KSI F<sub>tu</sub>, 95 KSI F<sub>su</sub>

**FINISH:** CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2. ~~TYPE I PLATE DESIGNATED BY "W" (SEE CODE). SCREWS WITH CLASS 3 PLATING AND WITH MIL-S-7742 THREADS MAY BE SUPPLIED UNTIL 30 APRIL 1976. /15/~~

**CODE:** FIRST DASH NUMBER DESIGNATES NOMINAL DIAMETER (SEE TABLE I).  
SECOND DASH NUMBER DESIGNATES GRIP LENGTH IN .0625 INCREMENTS (CONVERTED TO THREE DECIMAL PLACES PER ANSI Y14.5-1982).  
SEE SHEET 4 FOR TABULATIONS OF GRIP AND LENGTH DIMENSIONS.  
~~"W" AFTER SECOND DASH NUMBER DESIGNATES TYPE I PLATING. QQ-P-416, TYPE I, CLASS 2 CADMIUM PLATED SCREWS ARE INACTIVE FOR NEW DESIGN AFTER APRIL 1988. /15/~~

**HEAD MARKING:** PREFIX, BASIC PART NUMBER, APPLICABLE DASH NUMBERS AND MANUFACTURERS TRADE MARK RAISED OR DEPRESSED .010 INCH MAXIMUM. LOCATION OPTIONAL. ON .1640 DIA SCREWS "NAS" PREFIX MAY BE OMITTED ON HEAD.

**EXAMPLES OF PART NUMBERS:**

NAS623-4-10 SCREW, ALLOY STEEL, .2500-28 THREAD, .625 GRIP, AMS-QQ-P-416, TYPE II, CLASS 2 PLATING.  
~~NAS623-4-10W SCREW, ALLOY STEEL, .2500-28 THREAD, .625 GRIP, QQ-P-416, TYPE I, CLASS 2 PLATING. /15/~~

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 09-01

8 COMPLETELY REVISED

REVISION  
8



**NAS623**

SHEET 2

Document Sharing Hub