

FED. SUPPLY CLASS

4730

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

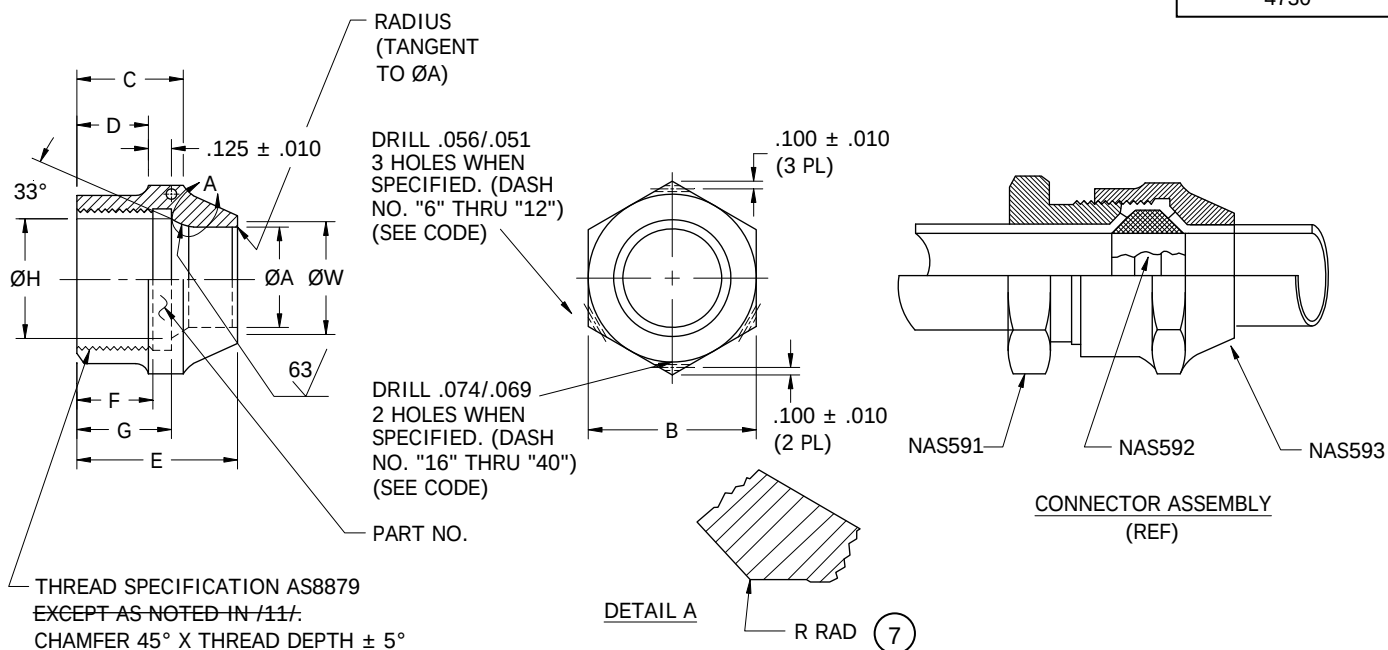


TABLE I - DIMENSIONS

| DASH NO. | TUBE O.D. | THREAD SIZE      | ØA I.D.<br>+.003<br>-.000 | B HEXAGON SIZE | C ±.010 | D ±.010 | E LENGTH ±.010 | F THREAD LENGTH ±.020 | G DEPTH ±.010 | ØH FLARE | R RAD ±.010 | ØW ±.010 OF RAD. CENTER | WT. MAX LB. |      |
|----------|-----------|------------------|---------------------------|----------------|---------|---------|----------------|-----------------------|---------------|----------|-------------|-------------------------|-------------|------|
| 4        | 1/4       | .4375-20 UNJF-3B | .255                      | .562           | ±.010   | .550    | .300           | .917                  | .350          | .460     | .315        | .032                    | .285        | .011 |
| 5        | 5/16      | .5000-20 UNJF-3B | .317                      | .625           |         | .550    | .300           | .917                  | .350          | .460     | .377        | .046                    | .347        | .013 |
| 6        | 3/8       | .5625-18 UNJF-3B | .380                      | .688           |         | .550    | .300           | .917                  | .350          | .460     | .440        | .062                    | .410        | .015 |
| 8        | 1/2       | .7500-16 UNJF-3B | .505                      | .875           | ±.012   | .615    | .365           | 1.022                 | .387          | .554     | .589        | .094                    | .535        | .035 |
| 10       | 5/8       | .8750-14 UNJF-3B | .632                      | 1.125          | ±.016   | .700    | .425           | 1.120                 | .505          | .630     | .730        | .109                    | .753        | .046 |
| 12       | 3/4       | 1.0625-12 UNJ-3B | .757                      | 1.250          |         | .713    | .463           | 1.120                 | .527          | .652     | .969        |                         | .878        | .046 |
| 16       | 1         | 1.3125-12 UNJ-3B | 1.012                     | 1.500          |         | .781    | .531           | 1.188                 | .553          | .720     | 1.156       |                         | 1.128       | .063 |
| 20       | 1 1/4     | 1.6250-12 UNJ-3B | 1.262                     | 1.750          | .719    | .469    | 1.188          | .520                  | .687          | 1.412    | 1.346       |                         | .072        |      |
| 24       | 1 1/2     | 1.8750-12 UNJ-3B | 1.512                     | 2.000          | .844    | .563    | 1.375          | .579                  | .746          | 1.653    | 1.596       |                         | .110        |      |
| 28       | 1 3/4     | 2.2500-12 UNJ-3B | 1.764                     | 2.500          | 1.000   | .625    | 1.500          | .459                  | .787          | 1.945    | 1.846       |                         | .210        |      |
| 32       | 2         | 2.5000-12 UNJ-3B | 2.014                     | 2.750          | ±.020   | 1.000   | .625           | 1.500                 | .459          | .787     | 2.195       |                         | 2.096       | .220 |
| 40       | 2 1/2     | 3.0000-12 UNJ-3B | 2.514                     | 3.375          |         | 1.062   | .688           | 1.563                 | .682          | .849     | 2.695       |                         | 2.596       | .322 |

MATERIAL:

ALUMINUM ALLOY. SEE PROCUREMENT SPECIFICATION.

FINISH:

SEE PROCUREMENT SPECIFICATION.

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.

REVISION DATE: JUNE 30, 2016

ISSUE DATE: AUGUST 1955

|                                     |                                                     |                                 |
|-------------------------------------|-----------------------------------------------------|---------------------------------|
| THIRD ANGLE PROJECTION              | CUSTODIAN<br>NATIONAL AEROSPACE STANDARDS COMMITTEE | REVISION<br>7                   |
| PROCUREMENT SPECIFICATION<br>NAS597 | TITLE<br>NUT, RIGID TUBE CONNECTOR, ALUMINUM        | CLASSIFICATION<br>PART STANDARD |



**NAS597**  
SHEET 1 OF 2  
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CODE:

ADD "H" AFTER DASH NUMBER FOR NUT WITH DRILLED HEXAGON.

EXAMPLE OF PART NUMBER:

NAS593-16 = ALUMINUM NUT WITHOUT DRILLED HEXAGON FOR 1 INCH TUBE.  
NAS593-16H = ALUMINUM NUT WITH DRILLED HEXAGON FOR 1 INCH TUBE.

NOTES:

- (1) REMOVE ALL BURRS AND SHARP EDGES.
- (2) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (3) SURFACE MAKING CONTACT WITH TUBING FLARE SHALL BE FREE FROM BURRS, LONGITUDINAL FLATS, LONGITUDINAL AND SPIRAL TOOL MARKS, EXCEPT THAT ANNULAR TOOL MARKS WILL BE ALLOWED IF 90% OF COMPACT AREA IS INDICATED BY BLUEING METHOD OF INSPECTION.
- (4) SURFACE ROUGHNESS UNLESS OTHERWISE SPECIFIED: 125 MICROINCHES Ra PER ASME B46.1. SURFACE ROUGHNESS SYMBOLS SHALL BE IN ACCORDANCE WITH ASME Y14.36M.
- (5) ENGINEERING INFORMATION: INTENDED TO BE USED WITH TUBING FLARE THICKNESSES OF .010 TO .065.
- (6) TOLERANCES UNLESS OTHERWISE SPECIFIED: ANGLES  $\pm 0^{\circ}30'$ .
- (7) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (8) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- (9) UNLESS OTHERWISE SPECIFIED HEREIN, REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF MANUFACTURE. HOWEVER, EXISTING MATERIAL INVENTORY CERTIFIED TO A PREVIOUS REVISION OF THE APPLICABLE MATERIAL SPECIFICATION(S) IS ACCEPTABLE FOR USE UNTIL DEPLETION.
- (10) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.

~~11/~~ THREAD TAP DRILL DIA: "4" = .393/.388; "5" = .453/.448; "6" = .513/.508; "8" = .693/.688.

REVISION

7

**NAS593**

SHEET 2

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