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REV.  
E

AS21914™

FEDERAL SUPPLY CLASS  
4730

## RATIONALE

MATERIAL SPEC FOR WIRE RETAINER UPDATED TO CURRENT CALLOUT. TABLE 2 REVISED TO REFLECT PROPER LOCATION OF MATERIAL LETTER CODES IN PART NUMBER CALLOUT. QPL NOTE UPDATED TO CURRENT VERBIAGE.

## NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS21914. THIS SAE STANDARD MAY RETAIN THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT. PROCUREMENT OF MS21914 PART NUMBERS TO THIS "AS" STANDARD MAY RESULT IN LOSS OF CONFIGURATION CONTROL WHERE DIFFERENCES IN THE CANCELLED MIL-F-18280 AND THE SUPERSEDING AS18280 PROCUREMENT SPECIFICATIONS EXIST.

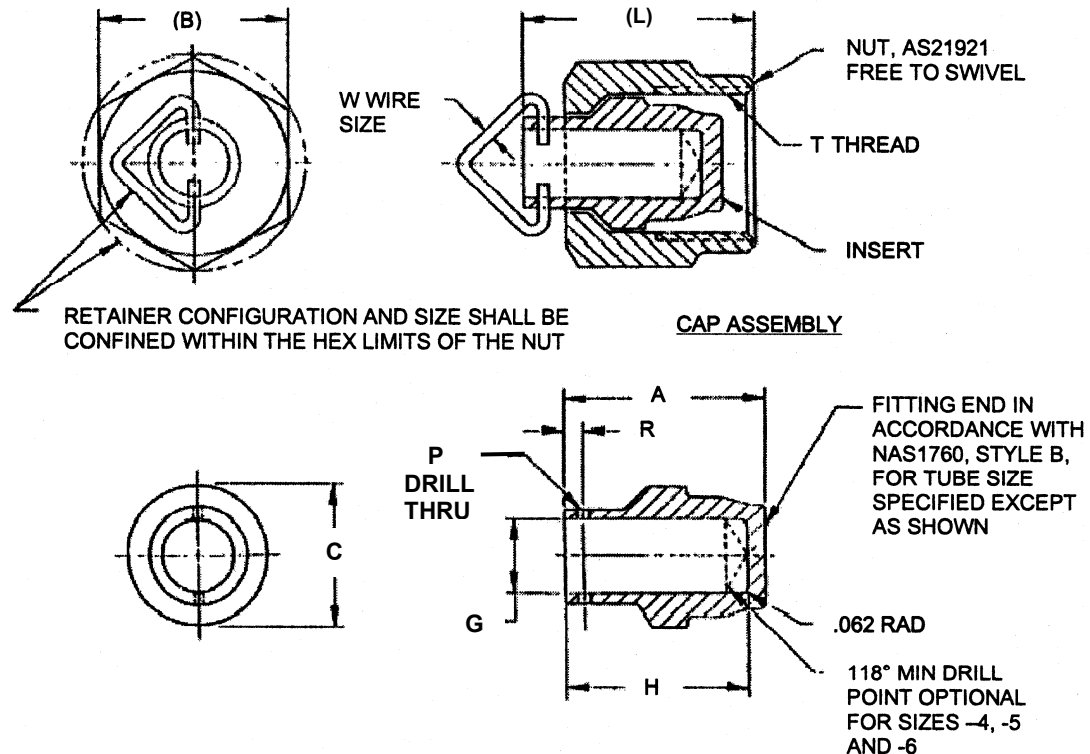
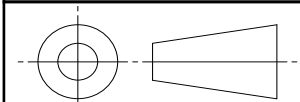


FIGURE 1 - CAP, PRESSURE SEAL, FLARELESS TUBE FITTING

For more information on this standard, visit  
<https://www.sae.org/standards/content/AS21914E>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS18280 /11/



## AEROSPACE STANDARD

CAP,  
PRESSURE SEAL,  
FLARELESS TUBE FITTING

AS21914™  
SHEET 1 OF 4

REV.  
E

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TABLE 1A - DIMENSIONS A-C

| DASH<br>NO.<br>/6/ | NOMINAL<br>TUBE<br>SIZE<br>REF | (T) THREAD<br>AS8879 | A<br>±.010 | (B)   | C<br>±.005 |
|--------------------|--------------------------------|----------------------|------------|-------|------------|
| -2                 | .125                           | .3125-24 UNJF-3B     | .600       | .375  | .256       |
| -3                 | .188                           | .3750-24 UNJF-3B     | .672       | .438  | .318       |
| -4                 | .250                           | .4375-20 UNJF-3B     | .745       | .562  | .371       |
| -5                 | .313                           | .5000-20 UNJF-3B     | .845       | .625  | .434       |
| -6                 | .375                           | .5625-18 UNJF-3B     | .885       | .688  | .490       |
| -8                 | .500                           | .7500-16 UNJF-3B     | .935       | .875  | .670       |
| -10                | .625                           | .8750-14 UNJF-3B     | 1.062      | 1.000 | .786       |
| -12                | .750                           | 1.0625-12 UNJ-3B     | 1.082      | 1.250 | .960       |
| -16                | 1.000                          | 1.3125-12 UNJ-3B     | 1.218      | 1.500 | 1.210      |
| -20                | 1.250                          | 1.6250-12 UNJ-3B     | 1.193      | 2.000 | 1.470      |
| -24                | 1.500                          | 1.8750-12 UNJ-3B     | 1.271      | 2.250 | 1.719      |

TABLE 1B - DIMENSIONS G-W

| DASH<br>NO.<br>/6/ | G<br>DIA<br>±.010 | H<br>±.010 | (L)   | P    | R    | W<br>DIA<br>MIN |
|--------------------|-------------------|------------|-------|------|------|-----------------|
| -2                 | -                 | -          | .720  | .047 | .065 | .033            |
| -3                 | -                 | -          | .767  | .047 | .065 | .033            |
| -4                 | .187              | .600       | .893  | .047 | .087 | .033            |
| -5                 | .234              | .700       | .977  | .078 | .101 | .055            |
| -6                 | .297              | .740       | .965  | .078 | .101 | .055            |
| -8                 | .406              | .790       | 1.077 | .078 | .101 | .055            |
| -10                | .500              | .917       | 1.210 | .078 | .101 | .055            |
| -12                | .656              | .937       | 1.208 | .078 | .101 | .055            |
| -16                | .906              | 1.073      | 1.189 | .093 | .101 | .066            |
| -20                | 1.093             | 1.048      | 1.288 | .093 | .101 | .066            |
| -24                | 1.343             | 1.125      | 1.305 | .093 | .101 | .066            |

## NOTES:

## NOTICE

THIS DOCUMENT REFERENCES A PART WHICH CONTAINS CADMIUM AS A PLATING MATERIAL. CONSULT LOCAL OFFICIALS IF YOU HAVE QUESTIONS CONCERNING CADMIUM'S USE.

## 1. MATERIAL:

REFER TO PROCUREMENT SPECIFICATION.

NUT AND INSERT: ALLOY STEEL.

ALUMINUM ALLOY.

CORROSION-RESISTANT STEEL.

TITANIUM ALLOY.

RETAINER: STEEL WIRE, CLASS 302 ANNEALED PER ASTM A493 OR CLASS 305 PER AS5685.

## 2. FINISH: NUT, INSERT, AND RETAINER—REFER TO PROCUREMENT SPECIFICATION.

## 3. BREAK EDGES .003 TO .015, UNLESS OTHERWISE SPECIFIED.

## 4. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 MICROINCHES Ra.

## 5. DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ±.005, ANGLES ±0°30'.

|                                                                                     |                                                  |  |                                 |                         |
|-------------------------------------------------------------------------------------|--------------------------------------------------|--|---------------------------------|-------------------------|
|  | <b>AEROSPACE STANDARD</b>                        |  | <b>AS21914™</b><br>SHEET 2 OF 4 | <b>REV.</b><br><b>F</b> |
|                                                                                     | CAP,<br>PRESSURE SEAL,<br>FLARELESS TUBE FITTING |  |                                 |                         |



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