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REV.  
E

AS5174

FEDERAL SUPPLY CLASS  
4730

#### RATIONALE

AS5174E HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

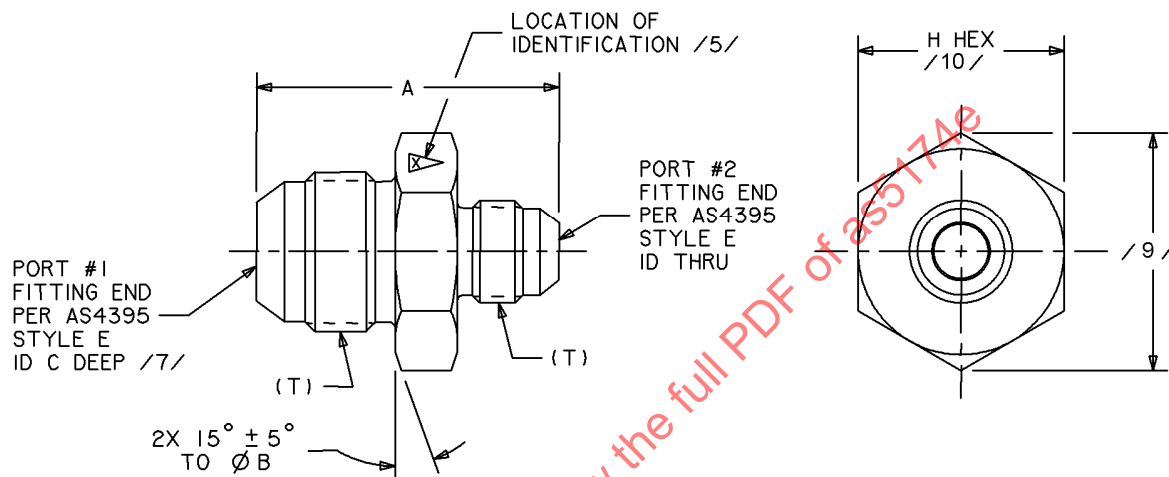
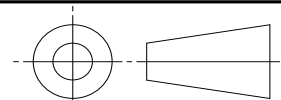


FIGURE 1 - FITTING, UNION AND REDUCER

INACTIVE IN PART /23/

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on this Technical Report, please visit  
<http://www.sae.org/technical/standards/AS5174E>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS4841



#### AEROSPACE STANDARD

FITTING, UNION AND REDUCER, FLARED

AS5174  
SHEET 1 OF 7

REV.  
E

TABLE 1A - DIMENSION A /12/

[illegible]



TABLE 1C - DIMENSIONS AND WEIGHTS /10/

| PORT<br>SIZE<br>CODE | (NOMINAL<br>TUBE SIZE) | T THREAD<br>PER<br>AS8879 |            |             | LB/EA<br>APPROX<br>REF<br>AL | LB/EA<br>APPROX<br>REF<br>STEEL | LB/EA<br>APPROX<br>REF<br>TI |
|----------------------|------------------------|---------------------------|------------|-------------|------------------------------|---------------------------------|------------------------------|
|                      |                        | CLASS 3A                  | B<br>±.010 | H           |                              |                                 |                              |
| 02                   | .125                   | .3125-24 UNJF             | .542       | .552- .565  | 0.014                        | 0.039                           | 0.022                        |
| 03                   | .188                   | .3750-24 UNJF             | .605       | .615- .628  | 0.016                        | 0.044                           | 0.025                        |
| 04                   | .250                   | .4375-20 UNJF             | .668       | .678- .691  | 0.016                        | 0.046                           | 0.026                        |
| 05                   | .312                   | .5000-20 UNJF             | .730       | .740- .753  | 0.019                        | 0.054                           | 0.031                        |
| 06                   | .375                   | .5625-18 UNJF             | .792       | .802- .815  | 0.029                        | 0.082                           | 0.047                        |
| 08                   | .500                   | .7500-16 UNJF             | .980       | .990-1.003  | 0.049                        | 0.139                           | 0.080                        |
| 10                   | .625                   | .8750-14 UNJF             | 1.103      | 1.113-1.128 | 0.075                        | 0.213                           | 0.122                        |
| 12                   | .750                   | 1.0625-12 UNJ             | 1.353      | 1.363-1.380 | 0.127                        | 0.358                           | 0.205                        |
| 16                   | 1.000                  | 1.3125-12 UNJ             | 1.603      | 1.613-1.630 | 0.172                        | 0.487                           | 0.279                        |
| 20                   | 1.250                  | 1.6250-12 UNJ             | 1.853      | 1.863-1.880 | 0.245                        | 0.694                           | 0.397                        |
| 24                   | 1.500                  | 1.8750-12 UNJ             | 2.099      | 2.109-2.135 | 0.329                        | 0.931                           | 0.533                        |
| 28                   | 1.750                  | 2.2500-12 UNJ             | 2.474      | 2.484-2.510 | 0.536                        | 1.517                           | 0.868                        |
| 32                   | 2.000                  | 2.5000-12 UNJ             | 2.724      | 2.734-2.760 | 0.673                        | 1.904                           | 1.090                        |
| 40                   | 2.500                  | 3.0000-12 UNJ             | 3.224      | 3.234-3.260 | 0.851                        | 2.409                           | 1.379                        |
| 48                   | 3.000                  | 3.5000-12 UNJ             | 3.724      | 3.734-3.760 | 1.149                        | 3.252                           | 1.861                        |

## 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:

- a. DASH AS CODE LETTER - TYPE 4130 STEEL BAR PER AMS-S-6758 OR AMS6370, OR TYPE 4140 STEEL BAR PER AMS6382.
- b. CODE LETTER D - TYPE 2024-T6 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6, OR TYPE 2024-T851 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6 OR AMS4339. /23/
- c. CODE LETTER J - TYPE 304 CORROSION RESISTANT STEEL BAR PER AMS5639.
- d. CODE LETTER K - TYPE 316 CORROSION RESISTANT STEEL BAR PER AMS5648.
- e. CODE LETTER R - TYPE 321 CORROSION RESISTANT STEEL BAR PER AMS5645.
- f. CODE LETTER S - TYPE 347 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS5646. /23/
- g. CODE LETTER T - TYPE 6AL-4V TITANIUM ALLOY BAR PER AMS4928. /22/
- h. CODE LETTER W - TYPE 7075-T73 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/9, OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS4124.

|                                                                                     |                                    |  |                        |           |
|-------------------------------------------------------------------------------------|------------------------------------|--|------------------------|-----------|
|  | AEROSPACE STANDARD                 |  | AS5174<br>SHEET 4 OF 7 | REV.<br>E |
|                                                                                     | FITTING, UNION AND REDUCER, FLARED |  |                        |           |

/2/ HEAT TREATMENT:

a. DASH AS CODE LETTER - SEE HARDNESS REQUIREMENT PER PROCUREMENT SPECIFICATION.

b. OTHER MATERIAL CODE LETTERS - NONE.

3. FINISH:

a. DASH AS CODE LETTER - CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2, DYE BLACK AND COAT WITH A LIGHT FILM OF OIL PER PROCUREMENT SPECIFICATION.

b. MATERIAL CODE LETTER D:

1. ANODIZE PER AMS2472 OR MIL-A-8625, TYPE II, CLASS 2, DYE BLUE, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.

2. D CODE PARTS TO BE COATED WITH HIGH PURITY ALUMINUM ONLY WILL HAVE THE FINISH CODE LETTER "V" PLACED AFTER THE SIZE CODE IN THE PART NUMBER. THE FINISH WILL BE: COAT WITH HIGH PURITY ALUMINUM PER MIL-DTL-83488, CLASS 3, TYPE II, WITH MAXIMUM COATING THICKNESS OF .0005. GLASS BEAD PEEN PRESSURE SHALL BE 25 psi MAXIMUM. SEE PROCUREMENT SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

c. MATERIAL CODE LETTER J - PASSIVATE PER AMS2700, TYPE 6 OR 7.

d. MATERIAL CODE LETTER K - PASSIVATE PER AMS2700, TYPE 6 OR 7.

e. MATERIAL CODE LETTER R - PASSIVATE PER AMS2700, TYPE 6 OR 7.

f. MATERIAL CODE LETTER S - PASSIVATE PER AMS2700, TYPE 6 OR 7.

g. MATERIAL CODE LETTER T - ANODIZE PER AMS2488 OR FLUORIDE PHOSPHATE CONVERSION COAT PER AMS2486 WITH COLOR PER PROCUREMENT SPECIFICATION.

h. MATERIAL CODE LETTER W:

1. ANODIZE PER AMS2472 OR MIL-A-8625, TYPE II, CLASS 2, DYE BROWN, DUPLEX SEAL PER PROCUREMENT SPECIFICATION.

2. W CODE PARTS TO BE COATED WITH HIGH PURITY ALUMINUM ONLY WILL HAVE THE FINISH CODE LETTER "V" PLACED AFTER THE SIZE CODE IN THE PART NUMBER. THE FINISH WILL BE: COAT WITH HIGH PURITY ALUMINUM PER MIL-DTL-83488, CLASS 3, TYPE II WITH MAXIMUM COATING THICKNESS OF .0005. GLASS BEAD PEEN PRESSURE SHALL BE 25 psi MAXIMUM. SEE PROCUREMENT SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

/4/ PROCUREMENT SPECIFICATION: AS4841 EXCEPT AS SPECIFIED ON THIS STANDARD. PRODUCT SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED BY AN ACCREDITED MANUFACTURER LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED MANUFACTURER LIST (QML) FOR THIS PRODUCT TYPE. THE QML IS AVAILABLE AT [www.eAuditNet.com](http://www.eAuditNet.com).

/5/ IDENTIFICATION AT LOCATION SHOWN: MARK PER AS478 CLASS C OR D, OR METHOD 7A3, 15A3 OR 15B.

a. FOR SIZES 06 AND SMALLER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, LETTERS "AS" AND MATERIAL CODE LETTER.

b. FOR SIZES 08 AND LARGER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, BASIC PART NUMBER AND MATERIAL CODE LETTER.

|                                                                                     |                                    |                               |                         |
|-------------------------------------------------------------------------------------|------------------------------------|-------------------------------|-------------------------|
|  | <b>AEROSPACE STANDARD</b>          | <b>AS5174</b><br>SHEET 5 OF 7 | <b>REV.</b><br><b>E</b> |
|                                                                                     | FITTING, UNION AND REDUCER, FLARED |                               |                         |