

RATIONALE

AS85421/13C HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

REV.
C

AS85421/13

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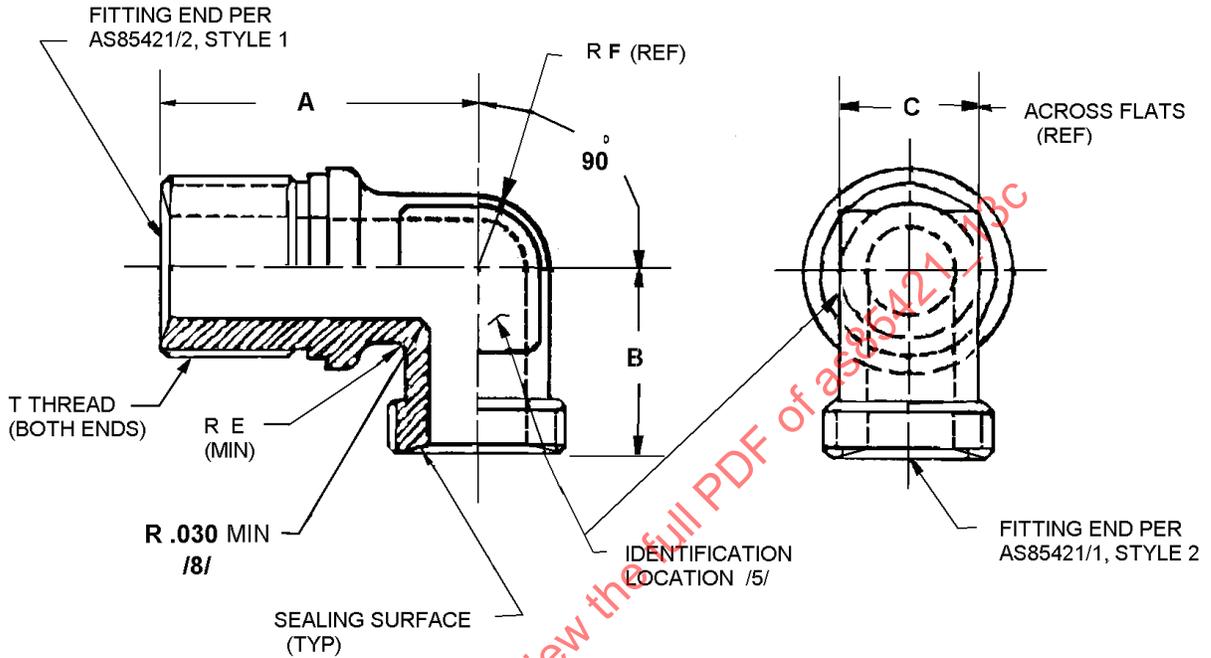
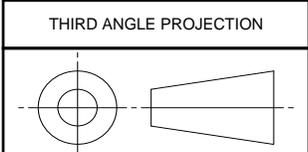


FIGURE 1

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS85421/13C>



CUSTODIAN: G-3

PROCUREMENT SPECIFICATION: AS85421 /4/



AEROSPACE STANDARD

FITTING, ELBOW,
90°, BEAM SEAL,
3000/4000 PSI, BULKHEAD MALE ENDS

AS85421/13
SHEET 1 OF 3

REV.
C

TABLE 1 - DIMENSIONAL DATA

| DASH NO. | TUBE OD | T THREAD AS8879 | A | B (REF) | C (REF) | E RAD (MIN) | F RAD (REF) | MASS, LB/EA, APPROX, REF | |
|----------|---------|------------------|-------|---------|---------|-------------|-------------|--------------------------|-------|
| | | | | | | | | TI | CRES |
| -03 | .188 | .3750-28UNJS-3A | 1.143 | .575 | .375 | .042 | .188 | .029 | .051 |
| -04 | .250 | .4375-24UNJS-3A | 1.225 | .617 | .375 | .042 | .188 | .034 | .060 |
| -05 | .312 | .5000-24UNJS-3A | 1.261 | .653 | .438 | .042 | .219 | .045 | .079 |
| -06 | .375 | .5625-20UNJS-3A | 1.353 | .704 | .500 | .042 | .250 | .056 | .098 |
| -08 | .500 | .7188-20UNJS-3A | 1.542 | .824 | .562 | .070 | .281 | .095 | .168 |
| -10 | .625 | .8438-18UNJS-3A | 1.769 | .955 | .688 | .070 | .344 | .135 | .239 |
| -12 | .750 | 1.0000-16UNJ-3A | 1.953 | 1.062 | .875 | .098 | .438 | .193 | .342 |
| -14 | .875 | 1.1250-16UNJ-3A | 2.188 | 1.216 | 1.125 | .098 | .563 | .332 | .587 |
| -16 | 1.000 | 1.2500-14UNJS-3A | 2.188 | 1.246 | 1.125 | .098 | .563 | .317 | .561 |
| -20 | 1.250 | 1.5781-14UNJS-3A | 2.326 | 1.387 | 1.375 | .098 | .688 | .489 | .865 |
| -24 | 1.500 | 1.8438-14UNJS-3A | 2.712 | 1.688 | 1.625 | .098 | .813 | .786 | 1.390 |

SIZES -20 AND -24 WERE ORIGINALLY DESIGNATED AS SIZES -21 AND -25 ON SOME MANUFACTURER'S DRAWINGS. THESE SIZES WILL NOT CONNECT WITH THE ORIGINAL -20 AND -24 FITTINGS. SEE 6.4 IN THE PROCUREMENT SPECIFICATION FOR ADDITIONAL INFORMATION.

NOTES:

/1/ MATERIAL:

- a. CODE LETTER P - TYPE 17-4PH CORROSION RESISTANT STEEL PER AMS 5643.
- b. CODE LETTER T - TYPE 6AL-4V TITANIUM ALLOY BAR PER AMS 4928 OR AMS 4965.
- c. CODE LETTER V - TYPE 15-5PH, CORROSION RESISTANT STEEL PER AMS 5659.

2. HEAT TREATMENT:

- a. MATERIAL CODE LETTER P - CONDITION H1075 PER AMS 2759/3.
- b. MATERIAL CODE LETTER T - NONE.
- c. MATERIAL CODE LETTER V - AGE TO CONDITION H 1076 PER AMS-H-6875 OR AMS 2759/3.

3. FINISH:

- a. MATERIAL CODE LETTER P - PASSIVATE PER AMS 2700, TYPE 6 OR 7.
- b. MATERIAL CODE LETTER T - NONE.
- c. MATERIAL CODE LETTER V - PASSIVATE PER AMS 2700, TYPE 6 OR 7.

/4/ PROCUREMENT SPECIFICATION: AS85421 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 PRODUCTS LIST (QPL) PRI-QPL-AS85421 FOR THIS STANDARD. SEE WW.EAUDITNET.COM FOR CURRENT QPL ON-LINE.

/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, AND FORGING MANUFACTURER'S IDENTIFICATION WHEN MADE FROM FORGING.
- b. FOR SIZES 08 AND LARGER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, BASIC PART NUMBER AND MATERIAL CODE LETTER, AND FORGING MANUFACTURER'S IDENTIFICATION WHEN MADE FROM FORGING.

6. INVENTORIED PARTS CONFORMING TO THE PREVIOUS "LETTER CHANGE" MAY BE USED TO DEPLETION.

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|---|---|-----------------------------------|-------------------------|
|  | AEROSPACE STANDARD | AS85421/13 SHEET 2 OF 3 | REV. C |
| | FITTING, ELBOW, 90°, BEAM SEAL, 3000/4000 PSI, BULKHEAD MALE ENDS | | |