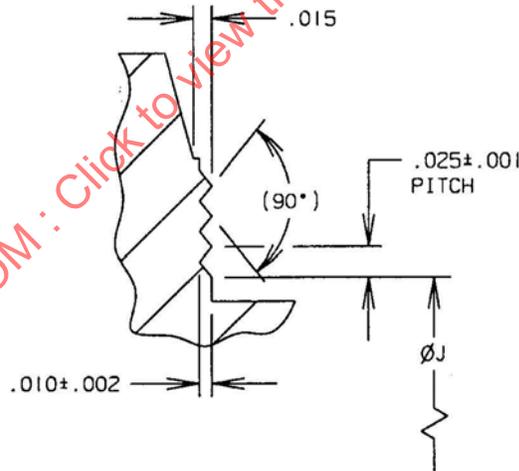
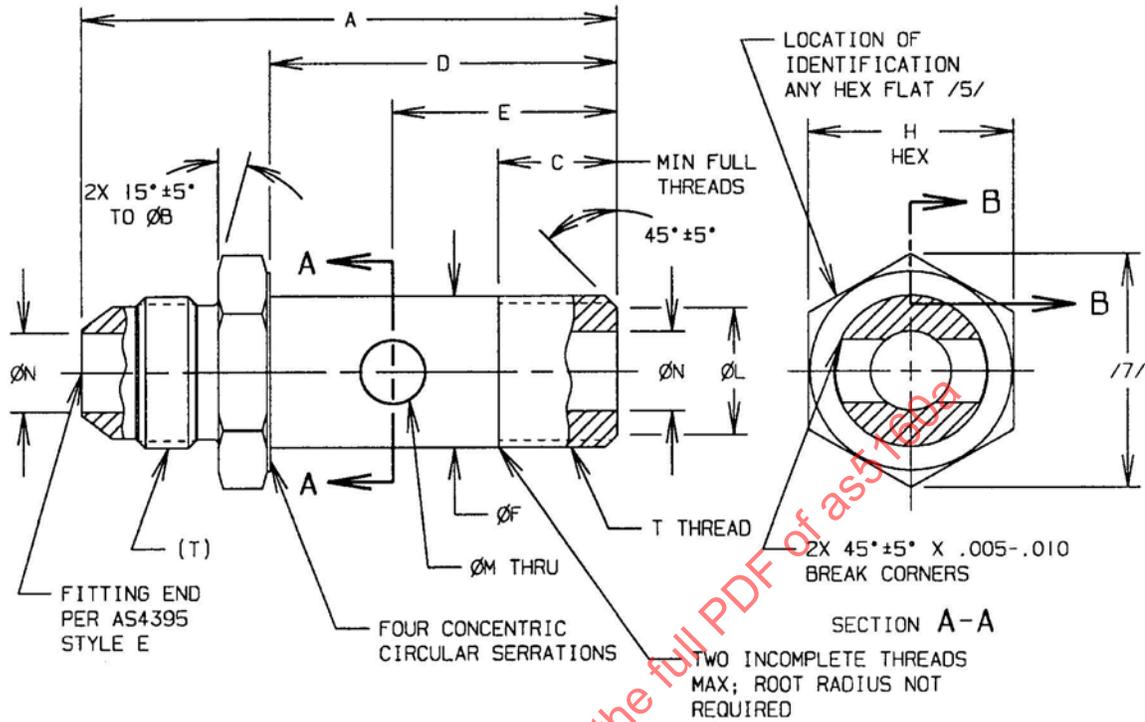


REV.  
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SAE AS5160

RATIONALE

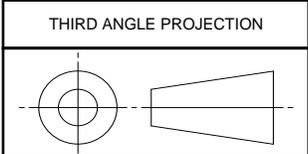
AS5160A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.



ENLARGED SECTION B-B  
OF SERRATIONS

FIGURE 1 - FITTING, BOLT

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS5160A>



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CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS4841

**SAE Aerospace**  
An SAE International Group

**AEROSPACE STANDARD**

FITTING, BOLT, FLARED

**SAE AS5160**  
SHEET 1 OF 3

REV.  
**A**

ISSUED 1998-03 REVISED 2003-08 REAFFIRMED 2013-01

TABLE 1A - DIMENSIONS

| BASIC NO.<br>AS5160<br>/13/<br>SIZE CODE | (NOMINAL<br>TUBE<br>SIZE) | T THREAD<br>PER MIL-S-8879<br>CLASS 3A | A     | B<br>±.010 | C    | D     | E<br>±.010 | F<br>±.002 |
|--|---------------------------|--|-------|------------|------|-------|------------|------------|
| 04                                       | .250                      | .4375-20 UNJF                          | 1.922 | .668       | .438 | 1.188 | .781       | .433       |
| 05                                       | .312                      | .5000-20 UNJF                          | 1.922 | .730       | .438 | 1.188 | .781       | .496       |
| 06                                       | .375                      | .5625-18 UNJF                          | 2.125 | .792       | .469 | 1.344 | .875       | .558       |
| 08                                       | .500                      | .7500-16 UNJF                          | 2.594 | .980       | .562 | 1.688 | 1.094      | .746       |
| 10                                       | .625                      | .8750-14 UNJF                          | 3.000 | 1.103      | .594 | 1.969 | 1.250      | .871       |
| 12                                       | .750                      | 1.0625-12 UNJ                          | 3.484 | 1.352      | .656 | 2.312 | 1.468      | 1.058      |
| 16                                       | 1.000                     | 1.3125-12 UNJ                          | 4.094 | 1.603      | .656 | 2.812 | 1.687      | 1.308      |

TABLE 1B - DIMENSIONS AND WEIGHTS

| BASIC NO.<br>AS5160<br>/13/<br>SIZE CODE | H           | J<br>±.005 | L     | M    | N         | LB/EA<br>MAX<br>AL | LB/EA<br>MAX<br>STEEL | LB/EA<br>MAX<br>TI |
|--|-------------|------------|-------|------|-----------|--------------------|-----------------------|--------------------|
| 04                                       | .678-.691   | .474       | .344  | .188 | .168-.175 | .0287              | .0825                 | .0455              |
| 05                                       | .740-.753   | .536       | .406  | .219 | .230-.237 | .0343              | .0985                 | .0543              |
| 06                                       | .802-.815   | .599       | .469  | .250 | .293-.301 | .0448              | .129                  | .0710              |
| 08                                       | .990-1.003  | .786       | .625  | .312 | .387-.395 | .0937              | .269                  | .148               |
| 10                                       | 1.113-1.128 | .911       | .750  | .375 | .480-.488 | .138               | .397                  | .219               |
| 12                                       | 1.363-1.380 | 1.099      | .938  | .438 | .604-.614 | .230               | .662                  | .365               |
| 16                                       | 1.613-1.630 | 1.349      | 1.188 | .625 | .839-.851 | .359               | 1.03                  | .569               |

## NOTES:

/1/ MATERIAL:

- DASH AS CODE LETTER - TYPE 1137 CARBON STEEL PER ASTM A 108 OR TYPE 4130 PER MIL-S-6758 OR AMS 6370 OR TYPE 4140 PER MIL-S-5626 OR AMS 6382. /2/
- CODE LETTER D - TYPE 2024-T6 ALUMINUM ALLOY BAR PER QQ-A-225/6 OR AMS 4112 OR TYPE 2024-T851 ALUMINUM ALLOY BAR PER QQ-A-225/6.
- CODE LETTER J - TYPE 304 CORROSION RESISTANT STEEL BAR PER QQ-S-763 OR AMS 5639.
- CODE LETTER K - TYPE 316 CORROSION RESISTANT STEEL BAR PER QQ-S-763 OR AMS 5648.
- CODE LETTER R - TYPE 321 CORROSION RESISTANT STEEL BAR PER QQ-S-763 OR AMS 5645.
- CODE LETTER T - TYPE 6AL-4V TITANIUM ALLOY BAR PER AMS 4928.
- CODE LETTER W - TYPE 7075-T73 ALUMINUM ALLOY BAR PER QQ-A-225/9 OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS 4124.