

REV.  
C

SAE AS4377

FEDERAL SUPPLY CLASS  
4730

# RATIONALE

AS4377C HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

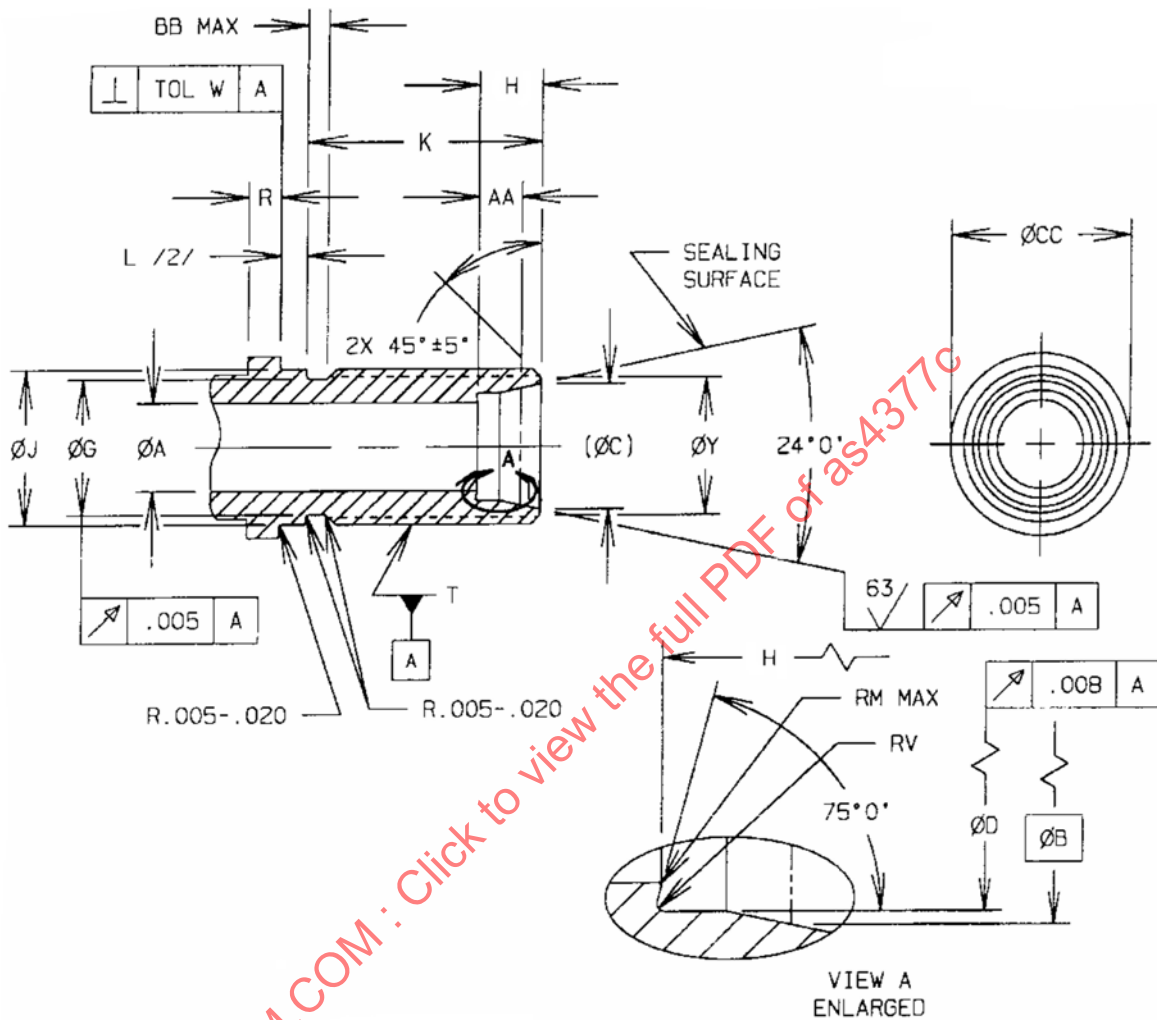
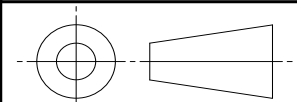


FIGURE 1 - FITTING END DESIGN, STYLE G

INACTIVE IN PART /10/

SAE values your input. To provide feedback  
on this Technical Report, please visit  
<http://www.sae.org/technical/standards/AS4377C>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: NONE /1/

**SAE Aerospace**  
An SAE International Group

## AEROSPACE STANDARD

FITTING END, BULKHEAD,  
FLARELESS, DESIGN STANDARD

**SAE AS4377**  
SHEET 1 OF 5

REV.  
C

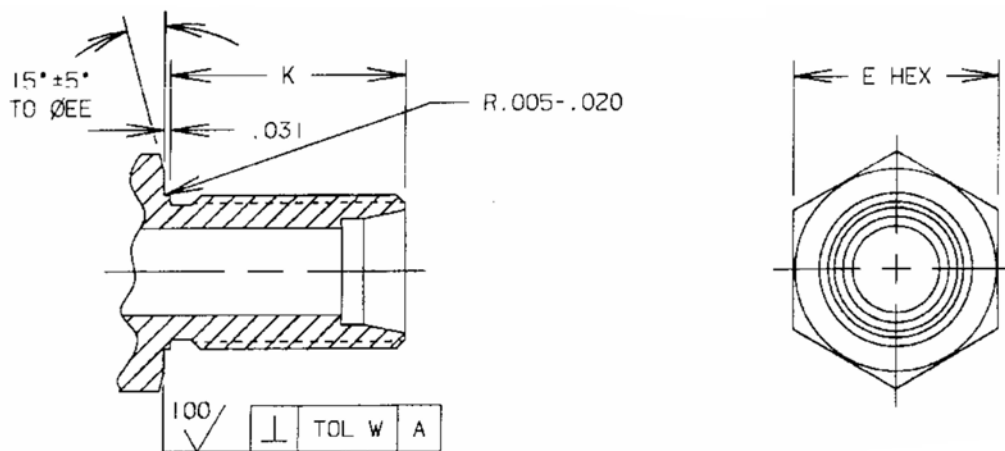


FIGURE 2 - FITTING END DESIGN, STYLE H  
SAME AS STYLE G EXCEPT AS SHOWN

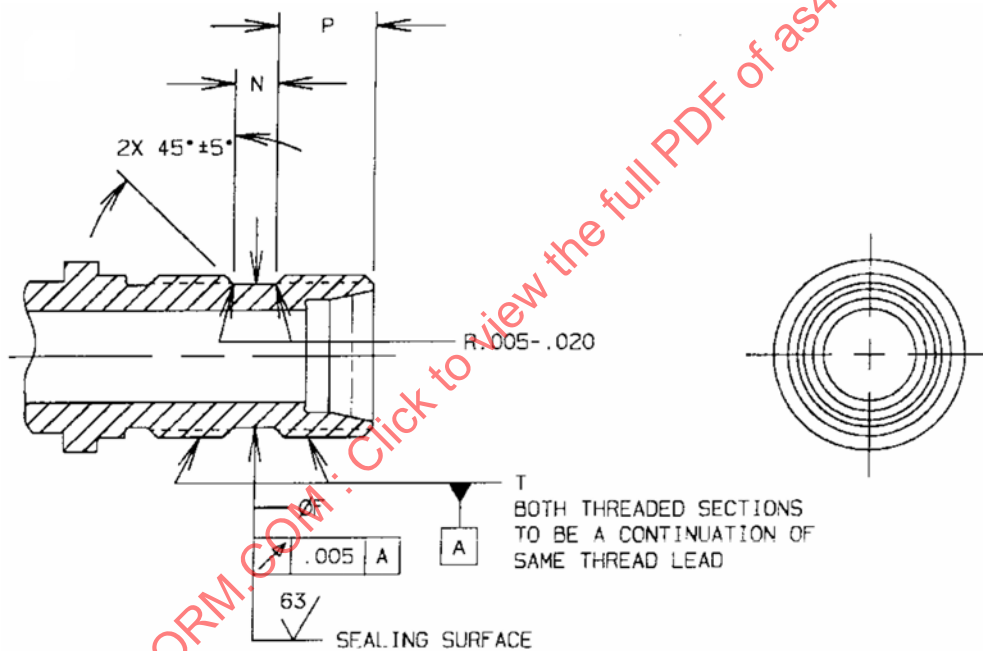


FIGURE 3 - FITTING END DESIGN, STYLE S  
SAME AS STYLE G EXCEPT AS SHOWN  
STYLE S IS INACTIVE FOR NEW DESIGN AS OF THE PUBLICATION DATE OF  
REVISION B OF THIS STANDARD. USE STYLE G FOR NEW DESIGN. /10/

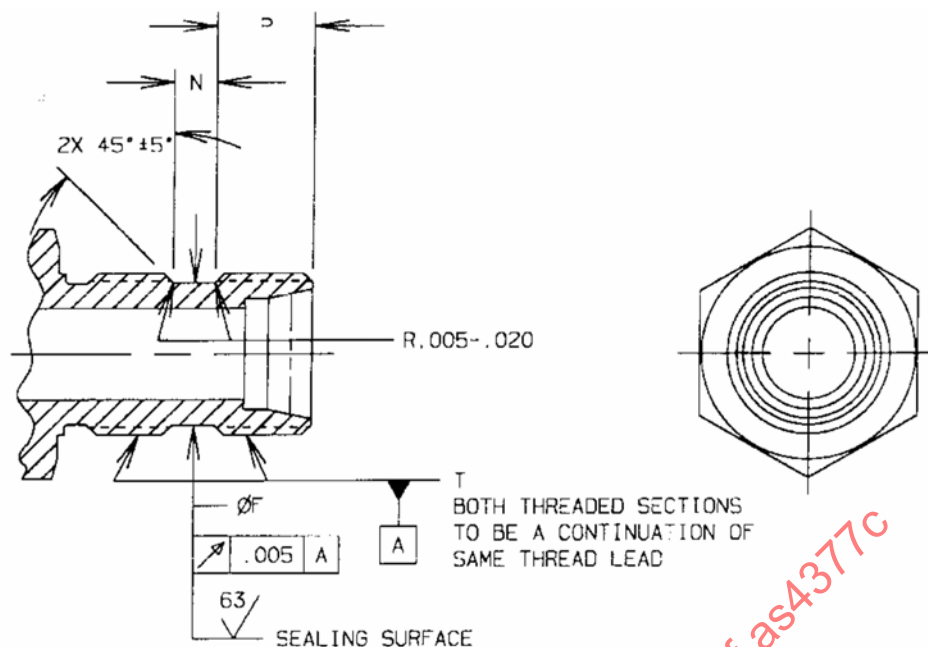


FIGURE 4 - FITTING END DESIGN, STYLE E  
 SAME AS STYLE H EXCEPT AS SHOWN  
 STYLE E IS INACTIVE FOR NEW DESIGN AS OF THE PUBLICATION DATE OF  
 REVISION B OF THIS STANDARD. USE STYLE H FOR NEW DESIGN. /10/

TABLE 1A - DIMENSIONS A-F

| BASIC NO.<br>AS4377<br>/9/<br>SIZE CODE | (NOMINAL<br>TUBE<br>SIZE) | T THREAD<br>PER<br>AS8879<br>CLASS 3A | A<br>±.003 | B      | C     | D<br>+.004/- .000 | E             | F<br>+.002/- .003 |
|-----------------------------------------|---------------------------|---------------------------------------|------------|--------|-------|-------------------|---------------|-------------------|
| 02                                      | .125                      | .3125-24 UNJF                         | .093       | .1630  | .189  | .135              | .552 - .565   | .250              |
| 03                                      | .188                      | .3750-24 UNJF                         | .125       | .2340  | .267  | .196              | .615 - .628   | .312              |
| 04                                      | .250                      | .4375-20 UNJF                         | .187       | .2930  | .319  | .261              | .678 - .691   | .364              |
| 05                                      | .312                      | .5000-20 UNJF                         | .234       | .3560  | .382  | .324              | .740 - .753   | .426              |
| 06                                      | .375                      | .5625-18 UNJF                         | .297       | .4160  | .441  | .386              | .802 - .816   | .481              |
| 08                                      | .500                      | .7500-16 UNJF                         | .422       | .5600  | .601  | .514              | .990 - 1.003  | .660              |
| 10                                      | .625                      | .8750-14 UNJF                         | .500       | .6860  | .727  | .641              | 1.113 - 1.128 | .773              |
| 12                                      | .750                      | 1.0625-12 UNJ                         | .656       | .8100  | .852  | .766              | 1.363 - 1.380 | .945              |
| 14                                      | .875                      | 1.1875-12 UNJ                         | .765       | .9360  | .977  | .891              | 1.488 - 1.505 | 1.070             |
| 16                                      | 1.000                     | 1.3125-12 UNJ                         | .875       | 1.0620 | 1.102 | 1.016             | 1.613 - 1.630 | 1.195             |
| 20                                      | 1.250                     | 1.6250-12 UNJ                         | 1.093      | 1.3160 | 1.355 | 1.270             | 1.863 - 1.880 | 1.507             |
| 24                                      | 1.500                     | 1.8750-12 UNJ                         | 1.344      | 1.5650 | 1.604 | 1.520             | 2.109 - 2.135 | 1.756             |
| 32                                      | 2.000                     | 2.5000-12 UNJ                         | 1.813      | 2.0680 | 2.108 | 2.022             | 2.734 - 2.760 | 2.381             |

TABLE 1B - DIMENSIONS G-P

| BASIC NO.<br>AS4377 |                   |            |          |        |            |            |      |                   |            |
|---------------------|-------------------|------------|----------|--------|------------|------------|------|-------------------|------------|
| /9/<br>SIZE CODE    | G<br>+.000/- .005 | H<br>±.003 | J        |        | K<br>±.016 | L<br>±.016 | M    | N<br>+.010/- .000 | P<br>±.005 |
| 02                  | .245              | .188       | .3053 -  | .3125  | .828       | .094       | .005 | .125              | .290       |
| 03                  | .307              | .234       | .3678 -  | .3750  | .875       | .094       | .005 | .131              | .340       |
| 04                  | .359              | .234       | .4294 -  | .4375  | .938       | .094       | .005 | .140              | .355       |
| 05                  | .421              | .250       | .4919 -  | .5000  | .938       | .094       | .010 | .140              | .355       |
| 06                  | .476              | .250       | .5538 -  | .5625  | .984       | .094       | .010 | .156              | .365       |
| 08                  | .654              | .305       | .7406 -  | .7500  | 1.125      | .125       | .010 | .187              | .445       |
| 10                  | .767              | .350       | .8647 -  | .8750  | 1.266      | .125       | .010 | .219              | .495       |
| 12                  | .938              | .350       | 1.0511 - | 1.0625 | 1.375      | .125       | .010 | .234              | .545       |
| 14                  | 1.064             | .356       | 1.1761 - | 1.1875 | 1.375      | .125       | .010 | .234              | .545       |
| 16                  | 1.188             | .415       | 1.3011 - | 1.3125 | 1.375      | .125       | .010 | .234              | .545       |
| 20                  | 1.501             | .415       | 1.6136 - | 1.6250 | 1.375      | .125       | .015 | .234              | .545       |
| 24                  | 1.750             | .485       | 1.8636 - | 1.8750 | 1.375      | .125       | .015 | .234              | .545       |
| 32                  | 2.375             | .485       | 2.4886 - | 2.5000 | 1.578      | .125       | .015 | .234              | .545       |

TABLE 1C - DIMENSIONS R-EE

| BASIC NO.<br>AS4377 |            |             |          |       |             |      |             |             |  |
|---------------------|------------|-------------|----------|-------|-------------|------|-------------|-------------|--|
| /9/<br>SIZE CODE    | R<br>±.030 | V           | W<br>MAX | Y     | AA<br>±.005 | BB   | CC<br>±.031 | EE<br>±.010 |  |
| 02                  | .110       | .005 - .010 | .005     | .250  | .128        | .078 | .438        | .542        |  |
| 03                  | .110       | .005 - .020 | .005     | .310  | .158        | .078 | .500        | .605        |  |
| 04                  | .120       | .005 - .020 | .005     | .365  | .174        | .090 | .562        | .668        |  |
| 05                  | .120       | .005 - .020 | .005     | .425  | .190        | .090 | .625        | .730        |  |
| 06                  | .140       | .005 - .020 | .005     | .480  | .193        | .098 | .688        | .792        |  |
| 08                  | .160       | .005 - .020 | .005     | .660  | .210        | .109 | .875        | .980        |  |
| 10                  | .170       | .005 - .020 | .005     | .775  | .255        | .122 | 1.000       | 1.103       |  |
| 12                  | .190       | .005 - .020 | .005     | .945  | .253        | .140 | 1.187       | 1.353       |  |
| 14                  | .190       | .005 - .020 | .008     | 1.070 | .260        | .140 | 1.312       | 1.478       |  |
| 16                  | .190       | .005 - .020 | .008     | 1.195 | .322        | .140 | 1.438       | 1.603       |  |
| 20                  | .190       | .020 - .025 | .008     | 1.505 | .325        | .140 | 1.750       | 1.853       |  |
| 24                  | .190       | .020 - .025 | .008     | 1.755 | .390        | .140 | 2.000       | 2.099       |  |
| 32                  | .190       | .020 - .025 | .008     | 2.380 | .395        | .140 | 2.625       | 2.724       |  |