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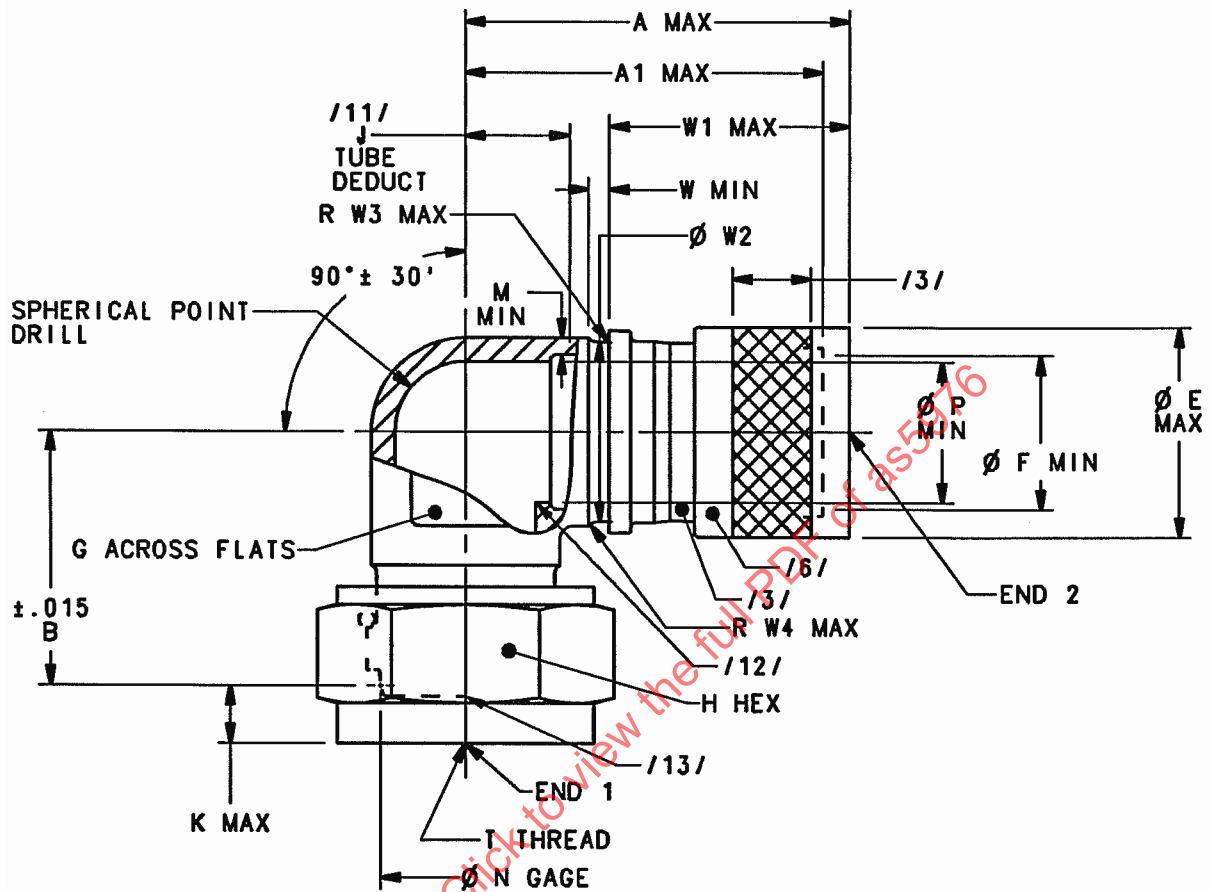
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AS5976

## RATIONALE

FEDERAL SUPPLY CLASS  
4730

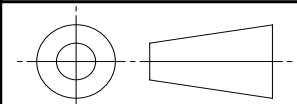
THIS STANDARD WAS PREPARED TO PROVIDE AN ENVELOPE REQUIREMENTS FOR AN AXIALLY SWAGED, FIELD ATTACHABLE, 5000 PSI, TUBE FITTING.



(SEE TABLE 1A AND 1B FOR DIMENSIONAL INFORMATION)

FIGURE 1 - ADAPTER, 90°, SWAGE

THIRD ANGLE PROJECTION



CUSTODIAN: SAE G-3/G-3D

PROCUREMENT SPECIFICATION: AS5958

**SAE Aerospace**  
An SAE International Group

## AEROSPACE STANDARD

FITTING ASSEMBLY, 90°, FEMALE  
FLARELESS, AXIALLY SWAGED,  
HYDRAULIC, 5080 PSI

**AS5976**  
SHEET 1 OF 3

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ISSUED 2006-01

TABLE 1A - DIMENSIONS A THROUGH K

| BASIC NO.<br>AS5976 /14/<br>SIZE CODE | NOMINAL<br>TUBE SIZE<br>END 1 | NOMINAL<br>TUBE SIZE<br>END 2 | A     | A1    | B     | E     | F     | G           | (H)   | J /11/<br>TUBE DEDUCT | K    |
|---------------------------------------|-------------------------------|-------------------------------|-------|-------|-------|-------|-------|-------------|-------|-----------------------|------|
| 0404                                  | .2500                         | .2500                         | .935  | .848  | .878  | .466  | .253  | .348/.380   | .563  | .353 ±.150            | .325 |
| 0604                                  | .3750                         | .2500                         | .998  | .911  | 1.040 | .466  | .253  | .477/.509   | .688  | .416 ±.150            | .337 |
| 0406                                  | .2500                         | .3750                         | 1.215 | 1.099 | .937  | .609  | .378  | .477/.509   | .563  | .416 ±.150            | .325 |
| 0606                                  | .3750                         | .3750                         | 1.215 | 1.099 | 1.040 | .609  | .378  | .477/.509   | .688  | .416 ±.150            | .337 |
| 0806                                  | .5000                         | .3750                         | 1.308 | 1.192 | 1.229 | .609  | .378  | .615/.647   | .875  | .509 ±.150            | .380 |
| 0608                                  | .3750                         | .5000                         | 1.516 | 1.370 | 1.133 | .783  | .504  | .615/.647   | .688  | .517 ±.175            | .337 |
| 0808                                  | .5000                         | .5000                         | 1.516 | 1.370 | 1.229 | .783  | .504  | .615/.647   | .875  | .517 ±.175            | .380 |
| 1008                                  | .6250                         | .5000                         | 1.579 | 1.433 | 1.435 | .783  | .504  | .751/.783   | 1.000 | .580 ±.175            | .407 |
| 0810                                  | .5000                         | .6250                         | 1.873 | 1.669 | 1.310 | .939  | .629  | .751/.783   | .875  | .580 ±.175            | .380 |
| 1010                                  | .6250                         | .6250                         | 1.873 | 1.669 | 1.435 | .939  | .629  | .751/.783   | 1.000 | .580 ±.175            | .407 |
| 1210                                  | .7500                         | .6250                         | 1.998 | 1.794 | 1.592 | .939  | .629  | .893/.929   | 1.250 | .705 ±.175            | .433 |
| 1012                                  | .6250                         | .7500                         | 2.149 | 1.944 | 1.560 | 1.122 | .754  | .893/.929   | 1.000 | .712 ±.175            | .407 |
| 1212                                  | .7500                         | .7500                         | 2.149 | 1.944 | 1.592 | 1.122 | .754  | .893/.929   | 1.250 | .712 ±.175            | .433 |
| 1612                                  | 1.0000                        | .7500                         | 2.308 | 2.103 | 1.862 | 1.122 | .754  | 1.181/1.213 | 1.500 | .878 ±.175            | .437 |
| 1216                                  | .7500                         | 1.0000                        | 2.606 | 2.392 | 1.786 | 1.495 | 1.004 | 1.181/1.213 | 1.250 | .878 ±.200            | .433 |
| 1616                                  | 1.0000                        | 1.0000                        | 2.606 | 2.392 | 1.862 | 1.495 | 1.004 | 1.181/1.213 | 1.500 | .878 ±.200            | .437 |

TABLE 1B - DIMENSIONS M THROUGH W4 AND WEIGHTS

| BASIC NO.<br>AS5976 /14/<br>SIZE CODE | NOMINAL<br>TUBE SIZE<br>END 1 | NOMINAL<br>TUBE SIZE<br>END 2 | M    | Ø N<br>GAGE | P    | T THREAD<br>PER AS8879 | W    | W1    | W2<br>±.0015 | W3   | W4   | MAX<br>WEIGHT<br>LBS/EA |
|---------------------------------------|-------------------------------|-------------------------------|------|-------------|------|------------------------|------|-------|--------------|------|------|-------------------------|
| 0404                                  | .2500                         | .2500                         | .043 | .2930       | .198 | .4375-28UNJEF-3B       | .123 | .488  | .3005        | .018 | .065 | .034                    |
| 0604                                  | .3750                         | .2500                         | .045 | .4160       | .198 | .5625-24UNJEF-3B       | .123 | .488  | .3005        | .018 | .065 | .051                    |
| 0406                                  | .2500                         | .3750                         | .045 | .2930       | .302 | .4375-28UNJEF-3B       | .153 | .675  | .4475        | .033 | .065 | .043                    |
| 0606                                  | .3750                         | .3750                         | .045 | .4160       | .302 | .5625-24UNJEF-3B       | .153 | .675  | .4475        | .033 | .065 | .060                    |
| 0806                                  | .5000                         | .3750                         | .052 | .5600       | .302 | .7500-20UNJEF-3B       | .153 | .675  | .4475        | .033 | .065 | .090                    |
| 0608                                  | .3750                         | .5000                         | .052 | .4160       | .401 | .5625-24UNJEF-3B       | .165 | .871  | .5945        | .033 | .129 | .088                    |
| 0808                                  | .5000                         | .5000                         | .052 | .5600       | .401 | .7500-20UNJEF-3B       | .165 | .871  | .5945        | .033 | .129 | .111                    |
| 1008                                  | .6250                         | .5000                         | .057 | .6860       | .401 | .8750-20UNJEF-3B       | .165 | .871  | .5945        | .033 | .129 | .132                    |
| 0810                                  | .5000                         | .6250                         | .057 | .5600       | .507 | .7500-20UNJEF-3B       | .140 | 1.190 | .7365        | .021 | .078 | .135                    |
| 1010                                  | .6250                         | .6250                         | .057 | .6860       | .507 | .8750-20UNJEF-3B       | .140 | 1.190 | .7365        | .021 | .078 | .195                    |
| 1210                                  | .7500                         | .6250                         | .065 | .8100       | .507 | 1.0625-18UNJEF-3B      | .140 | 1.190 | .7365        | .021 | .078 | .213                    |
| 1012                                  | .6250                         | .7500                         | .065 | .6860       | .604 | .8750-20UNJEF-3B       | .154 | 1.327 | .8805        | .024 | .089 | .223                    |
| 1212                                  | .7500                         | .7500                         | .065 | .8100       | .604 | 1.0625-18UNJEF-3B      | .154 | 1.327 | .8805        | .024 | .089 | .256                    |
| 1612                                  | 1.0000                        | .7500                         | .084 | 1.0620      | .604 | 1.3125-16UNJ-3B        | .154 | 1.327 | .8805        | .024 | .089 | .388                    |
| 1216                                  | .7500                         | 1.0000                        | .084 | .8100       | .802 | 1.0625-18UNJEF-3B      | .167 | 1.612 | 1.1725       | .027 | .099 | .434                    |
| 1616                                  | 1.0000                        | 1.0000                        | .084 | 1.0620      | .802 | 1.3125-16UNJ-3B        | .167 | 1.612 | 1.1725       | .027 | .099 | .509                    |