

REV.  
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AS7511™

FEDERAL SUPPLY CLASS  
4730

# RATIONALE

REVISE DIAMETER "D" FOR NOMINAL SIZES .500, .625, AND .750 INCH TO ALLOW ADDITIONAL DIAMETRICAL CLEARANCE BASED ON PHYSICAL PART MEASUREMENTS.

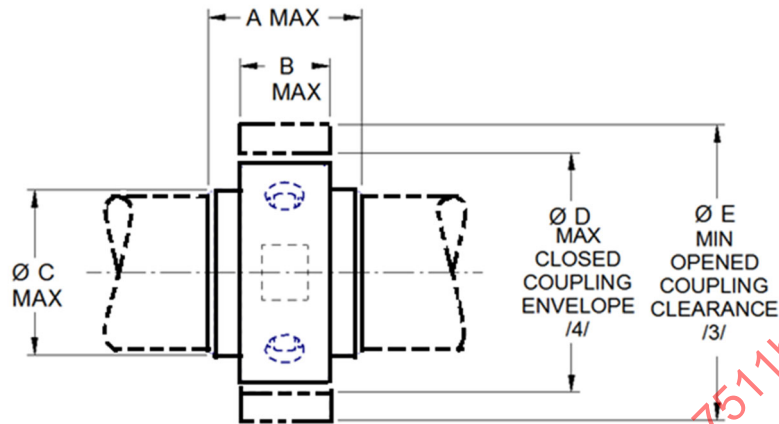


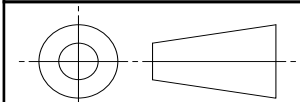
FIGURE 1 - ASSEMBLED COUPLING ENVELOPE

TABLE 1 - DIMENSIONS

| BASIC NO.<br>AS7511<br>SIZE CODE | NOM<br>TUBE<br>SIZE<br>REF | A<br>MAX<br>(SWAGED<br>FERRULES)<br>/11/ | A<br>MAX<br>(WELDED<br>FERRULES)<br>/11/ | B<br>MAX | ØC<br>MAX<br>/4/ | ØD<br>MAX<br>/4/ | ØE<br>MIN<br>/3/ | /5/<br>AS568<br>O-RING<br>SIZE<br>DASH NO.<br>REF |
|----------------------------------|----------------------------|------------------------------------------|------------------------------------------|----------|------------------|------------------|------------------|---------------------------------------------------|
| 08                               | .500                       | 1.76                                     | 2.35                                     | .895     | .641             | 2.01             | 3.200            | -015                                              |
| 10                               | .625                       | 1.76                                     | 2.35                                     | .895     | .766             | 2.08             | 3.300            | -017                                              |
| 12                               | .750                       | 1.86                                     | 2.48                                     | 1.019    | .906             | 2.23             | 3.400            | -117                                              |
| 16                               | 1.000                      | 1.96                                     | 2.56                                     | 1.107    | 1.158            | 2.45             | 4.000            | -215                                              |
| 20                               | 1.250                      | 1.96                                     | 2.56                                     | 1.107    | 1.408            | 2.70             | 4.200            | -218                                              |
| 24                               | 1.500                      | 2.08                                     | 2.56                                     | 1.107    | 1.658            | 2.98             | 4.700            | -222                                              |
| 28                               | 1.750                      | 2.08                                     | 2.56                                     | 1.107    | 1.908            | 3.24             | 4.900            | -224                                              |
| 32                               | 2.000                      | 2.14                                     | 2.62                                     | 1.161    | 2.161            | 3.52             | 5.200            | -226                                              |
| 36                               | 2.250                      | 2.20                                     | 2.62                                     | 1.161    | 2.411            | 3.77             | 5.500            | -228                                              |
| 40                               | 2.500                      | 2.20                                     | 2.63                                     | 1.171    | 2.661            | 4.03             | 5.800            | -230                                              |
| 48                               | 3.000                      | 2.20                                     | 2.67                                     | 1.211    | 3.161            | 4.55             | 6.300            | -234                                              |
| 56                               | 3.500                      | 2.29                                     | 2.82                                     | 1.301    | 3.661            | 5.09             | 6.800            | -238                                              |
| 64                               | 4.000                      | 2.69                                     | 2.91                                     | 1.331    | 4.170            | 5.61             | 7.800            | -242                                              |

For more information on this standard, visit  
<https://www.sae.org/standards/content/AS7511B/>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3A

PROCUREMENT SPECIFICATION: AS7510



## AEROSPACE STANDARD

ASSEMBLED COUPLING ENVELOPE, THREADLESS -  
FLEXIBLE, FIXED CAVITY, CURRENT CARRYING,  
SELF BONDING, ENVELOPE DIMENSIONS

AS7511™  
SHEET 1 OF 2

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