

REV.
C

SAE AS4706

FEDERAL SUPPLY CLASS
4720

RATIONALE

CORRECTED "MATES WITH" REFERENCE.

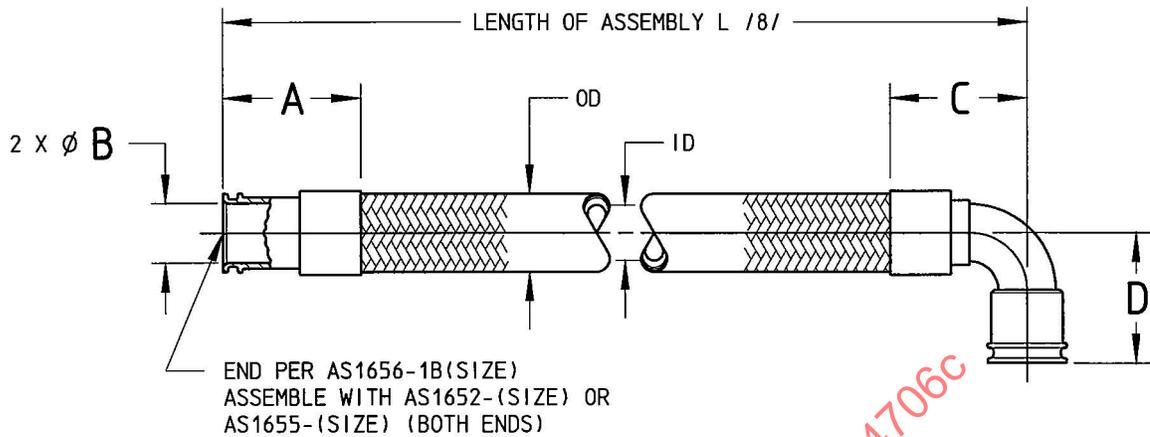


FIGURE 1 - HOSE ASSEMBLY

TABLE 1 - BASIC HOSE AND END FITTING DIMENSIONS

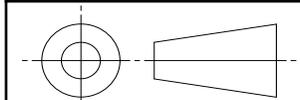
| BASIC NO. AND SIZE CODE | HOSE SIZE (REF) | A MAX | B (REF) | C MAX | D MIN | D MAX | ID (REF) | OD MIN | OD MAX |
|-------------------------------|-----------------------|----------|------------|----------|----------|----------|-------------|-----------|-----------|
| AS4706-08 | .500 | 1.40 | .425 | 1.39 | 1.09 | 1.20 | .500 | .65 | .73 |
| AS4706-10 | .625 | 1.40 | .550 | 1.57 | 1.24 | 1.34 | .625 | .81 | .85 |
| AS4706-12 | .750 | 1.53 | .654 | 2.05 | 1.54 | 1.68 | .750 | .94 | .98 |
| AS4706-16 | 1.000 | 1.73 | .909 | 2.17 | 1.71 | 1.85 | 1.000 | 1.19 | 1.23 |

TABLE 2 - LENGTH TOLERANCE

| HOSE ASSEMBLY LENGTH | PREFERRED INCREMENTS | TOLERANCE |
|------------------------|-----------------------|---------------|
| UNDER 18 IN | (NOT LESS THAN) .125 | + .125/- .125 |
| 18 TO 36 IN EXCLUSIVE | (NOT LESS THAN) .250 | + .250/- .250 |
| 36 TO 100 IN EXCLUSIVE | (NOT LESS THAN) .500 | + .375/- .375 |
| 100 IN AND OVER | (NOT LESS THAN) 1.000 | + .5%/- .500 |

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THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3D

PROCUREMENT SPECIFICATION: AS4468 /2/

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

HOSE ASSEMBLY, LINED SILICONE,
125 PSI, FIXED CAVITY COUPLING, POTABLE WATER,
STRAIGHT MALE TO 90° MALE

SAE AS4706
SHEET 1 OF 3

REV.
C

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TABLE 3 - HOSE ASSEMBLY WEIGHT INFORMATION

| HOSE SIZE CODE | HOSE LB/IN NOM (REF) | END FITTING LB/EA STRAIGHT NOM (REF) | END FITTING LB/EA 90° NOM (REF) | HOSE LENGTH CORRECTION FACTOR, NCH /9/ STRAIGHT | HOSE LENGTH ORRECTION FACTOR, INCH /9/ 90° |
|----------------|----------------------|--------------------------------------|---------------------------------|---|--|
| 08 | .0081 | .038 | .058 | .70 | .77 |
| 10 | .0111 | .047 | .080 | .70 | .95 |
| 12 | .0137 | .083 | .134 | .75 | 1.26 |
| 16 | .0182 | .118 | .191 | .80 | 1.39 |

NOTES:

1. MATERIAL AND FINISH: PER AS4468, TABLE 1. ALL FITTING COMPONENTS 300 SERIES CORROSION RESISTANT STEEL, PASSIVATED.
- /2/ PROCUREMENT SPECIFICATION: AS4468 EXCEPT AS SPECIFIED ON THIS STANDARD. PRODUCT SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED AND ASSEMBLED BY AN ACCREDITED MANUFACTURER OR ASSEMBLED BY AN ACCREDITED DISTRIBUTOR LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCTS LIST (QPL) PRI QPL AS4468 FOR THIS STANDARD. SEE www.eauditnet.com FOR CURRENT QPL ON LINE.
3. INTENDED USE: THESE HOSE ASSEMBLIES ARE INTENDED FOR USE IN POTABLE WATER SYSTEM INSTALLATIONS WHERE A HIGH DEGREE OF FLEXIBILITY IS REQUIRED.
4. IDENTIFICATION: PER AS4468.
5. OPERATING CHARACTERISTICS:
 - a. OPERATING TEMPERATURE: -65 TO +160 °F (-54 TO +71 °C).
 - b. OPERATING PRESSURE: 125 PSI MAX
6. FUNCTIONAL TEST AND CLEANING: PER AS4468.
7. CONSTRUCTION: PER AS4468.
- /8/ LENGTH "L" IS A FOUR-DIGIT NUMBER OF WHICH THE FIRST THREE DIGITS DESCRIBE THE HOSE ASSEMBLY LENGTH IN WHOLE INCHES, AND THE FOURTH DIGIT THE FRACTION OF AN INCH IN EIGHTHS. LENGTH "L" IS MEASURED FROM "GAGE POINT" TO "GAGE POINT". SEE TABLE 2 FOR LENGTH TOLERANCES.
- /9/ HOSE WEIGHT PLUS EACH END FITTING WEIGHT EQUALS HOSE ASSEMBLY WEIGHT. FOR DETERMINING HOSE WEIGHT, DEDUCT APPROPRIATE LENGTH CORRECTION FACTOR FROM EACH END OF THE ASSEMBLY LENGTH.
10. DIMENSIONING AND TOLERANCING: ASME Y14.5M-1994.
11. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS ±.010, ANGULAR DIMENSIONS ±2 DEGREES.

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|---|---|--|------------------|
|  An SAE International Group | AEROSPACE STANDARD |  SAE AS4706 SHEET 2 OF 3 | REV. C |
| | HOSE ASSEMBLY, LINED SILICONE, 125 PSI, FIXED CAVITY COUPLING, POTABLE WATER, STRAIGHT MALE TO 90° MALE | | |