

AS1477 A

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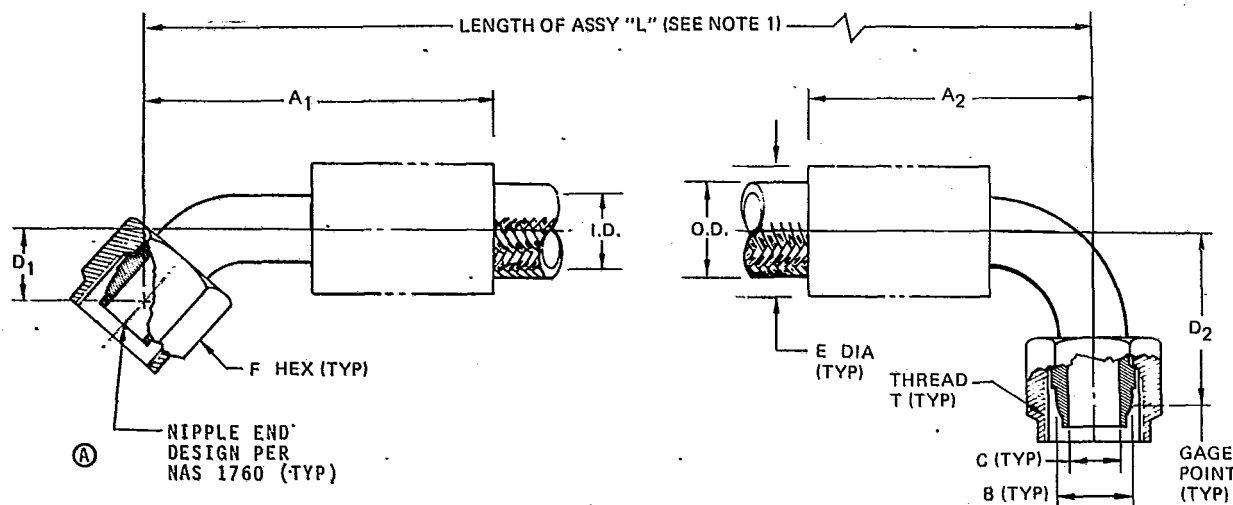


FIGURE 1

BASIC HOSE AND END FITTING DIMENSIONS

| HOSE ASSEMBLY NO. AND SIZE CODE | HOSE ASSY. SIZE (REF) | THREAD T PER MIL-S-8879 (REF) | A1   | A2   | B GAGE DIA. BASIC | C MIN. THRU 2 | D1   |      | D2   |      | E MAX. 3 | F HEX ACROSS FLATS (REF) | HOSE I.D. MIN. | HOSE O.D. |      |
|---------------------------------|-----------------------|-------------------------------|------|------|-------------------|---------------|------|------|------|------|----------|--------------------------|----------------|-----------|------|
|                                 |                       |                               | MAX. | MAX. |                   |               | MIN. | MAX. | MIN. | MAX. |          |                          |                | MIN.      | MAX. |
| AS1477E                         | 1/4                   | .4375-20 UNJF-3B              | 1.80 | 1.52 | .2930             | .174          | .33  | .39  | .62  | .70  | .67      | .56                      | .235           | .35       | .39  |
| AS1477G                         | 3/8                   | .5625-18 UNJF-3B              | 2.16 | 1.85 | .4120             | .291          | .42  | .48  | .82  | .90  | .82      | .69                      | .360           | .54       | .57  |
| AS1477H                         | 1/2                   | .7500-16 UNJF-3B              | 2.51 | 2.16 | .5600             | .409          | .47  | .53  | .96  | 1.04 | 1.03     | .88                      | .485           | .68       | .73  |
| AS1477J                         | 5/8                   | .8750-14 UNJF-3B              | 2.84 | 2.45 | .6730             | .495          | .57  | .63  | 1.18 | 1.26 | 1.18     | 1.00                     | .610           | .81       | .86  |
| AS1477K                         | 3/4                   | 1.0625-12 UNJ-3B              | 3.17 | 2.74 | .8100             | .646          | .62  | .68  | 1.31 | 1.39 | 1.47     | 1.25                     | .735           | .93       | .98  |
| AS1477M                         | 1                     | 1.3125-12 UNJ-3B              | 3.80 | 3.30 | 1.0620            | .898          | .76  | .82  | 1.67 | 1.75 | 1.75     | 1.50                     | .985           | 1.20      | 1.24 |

TABLE II

LENGTH INCREMENTS AND TOLERANCE

| HOSE ASSEMBLY LENGTH | AVAILABLE INCREMENTS       | TOLERANCE                   |
|----------------------|----------------------------|-----------------------------|
| UNDER 18 INCHES      | (NOT LESS THAN) .125 INCH  | (PLUS OR MINUS) .125 INCH   |
| 18 TO 36 INCHES      | (NOT LESS THAN) .250 INCH  | (PLUS OR MINUS) .250 INCH   |
| 36 TO 100 INCHES     | (NOT LESS THAN) .250 INCH  | (PLUS OR MINUS) .375 INCH   |
| 100 TO 500 INCHES    | (NOT LESS THAN) .500 INCH  | (PLUS OR MINUS) 1/2 PERCENT |
| OVER 500 INCHES      | (NOT LESS THAN) 1.000 INCH | (PLUS OR MINUS) 1 PERCENT   |

TABLE III

HOSE ASSEMBLY WEIGHT INFORMATION

| HOSE<br>SIZE<br>(REF) | MAXIMUM WEIGHTS  |                                    |             |             |             |             |             | HOSE LENGTH<br>CORRECTION<br>FACTOR<br>INCH |      |
|-----------------------|------------------|------------------------------------|-------------|-------------|-------------|-------------|-------------|---------------------------------------------|------|
|                       | HOSE<br>LBS/INCH | STANDARD END FITTING<br>(LBS) EACH |             |             |             |             |             |                                             |      |
|                       |                  | 45°                                |             |             | 90°         |             |             |                                             |      |
|                       |                  | CODE<br>"D"                        | CODE<br>"S" | CODE<br>"J" | CODE<br>"D" | CODE<br>"S" | CODE<br>"J" | 4                                           |      |
|                       |                  |                                    |             |             |             |             |             | 45°                                         | 90°  |
| 04                    | .004             | .027                               |             | .048        | .027        |             | .049        | .71                                         | .51  |
| 06                    | .008             | .046                               |             | .079        | .048        |             | .081        | .88                                         | .58  |
| 08                    | .011             | .076                               |             | .122        | .079        |             | .125        | .95                                         | .70  |
| 10                    | .014             | .116                               |             | .181        | .122        |             | .187        | 1.13                                        | .88  |
| 12                    | .018             | .169                               |             | .281        | .183        |             | .295        | 1.33                                        | 1.19 |
| 16                    | .024             | .260                               |             | .420        | .284        |             | .444        | 1.56                                        | 1.32 |

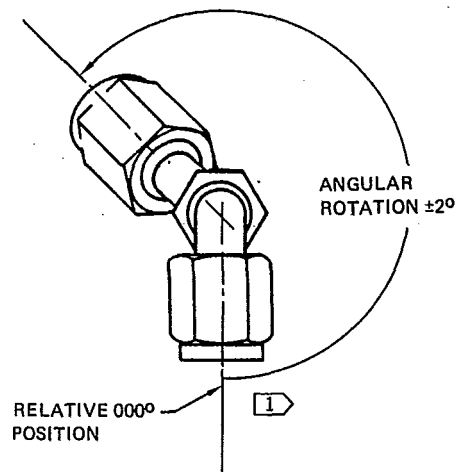


FIGURE II

PREPARED BY SAE COMMITTEE G-3, AEROSPACE FITTINGS, HOSE AND TUBING ASSEMBLIES

**SAE** The Engineering Resource For Advancing Mobility

AEROSPACE STANDARD

HOSE ASSEMBLY, FLEXIBLE, LOW PRESSURE, FLARELESS,  
POTENTIALLY WATER AND OIL RESISTANT

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