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# AS156

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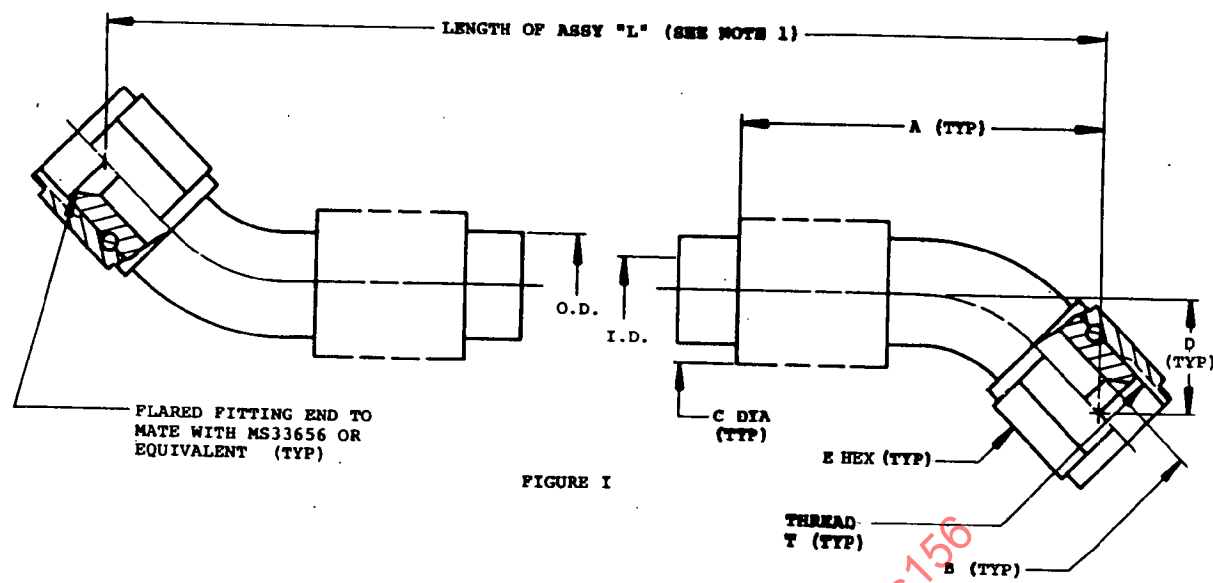


FIGURE 1

TABLE I

| HOSE ASSEMBLY NO. AND SIZE CODE | HOSE ASSEMBLY SIZE REF | THREAD T PER MTL-S-8879 REF | I.D. MIN | A MAX | B MIN DIA THRU | C MIN DIA WITHOUT SLEEVING | D    |      | E HEX REF |
|---------------------------------|------------------------|-----------------------------|----------|-------|----------------|----------------------------|------|------|-----------|
|                                 |                        |                             |          |       |                |                            | MIN  | MAX  |           |
| AS156E                          | 1/4                    | .4375-20UMJP-3B             | .212     | 2.08  | .141           | .69                        | .280 | .451 | .56       |
| AS156G                          | 3/8                    | .5625-18UMJP-3B             | .298     | 2.29  | .250           | .80                        | .370 | .563 | .69       |
| AS156H                          | 1/2                    | .7500-16UMJP-3B             | .391     | 2.61  | .360           | .97                        | .430 | .645 | .88       |
| AS156J                          | 5/8                    | .8750-14UMJP-3B             | .485     | 3.09  | .455           | 1.11                       | .510 | .666 | 1.00      |
| AS156K                          | 3/4                    | 1.0625-12UMJ -3B            | .602     | 3.44  | .568           | 1.38                       | .590 | .720 | 1.25      |
| AS156M                          | 1                      | 1.3125-12UMJ-3B             | .852     |       | .760           | 1.66                       |      |      | 1.50      |

TABLE II

| HOSE ASSEMBLY LENGTH | AVAILABLE INCREMENTS     | TOLERANCE                 |
|----------------------|--------------------------|---------------------------|
| UNDER 18 INCHES      | (NOT LESS THAN) 1/8 INCH | (PLUS OR MINUS) .125 INCH |
| 18 TO 36 INCHES      | (NOT LESS THAN) 1/4 INCH | (PLUS OR MINUS) .250 INCH |
| 36 TO 50 INCHES      | (NOT LESS THAN) 1/2 INCH | (PLUS OR MINUS) .500 INCH |
| OVER 50 INCHES       | (NOT LESS THAN) 1 INCH   | (PLUS OR MINUS) 1 PERCENT |

TABLE III

|                       |                              | TABLE III               |      |       |       |       |   |                   |  |
|-----------------------|------------------------------|-------------------------|------|-------|-------|-------|---|-------------------|--|
| SLEEVING CODE OR HOSE | TYPE OF SLEEVING OR HOSE     | HOSE OR SLEEVE O.D. MAX |      |       |       |       |   | TEMPERATURE LIMIT |  |
|                       |                              | HOSE SIZE               |      |       |       |       |   |                   |  |
|                       |                              | 1/4                     | 3/8  | 1/2   | 5/8   | 3/4   | 1 |                   |  |
| NONE                  | HOSE ONLY                    | .410                    | .540 | .640  | .745  | .990  |   | 400°F             |  |
| A                     | TUBULAR ABRASION (TFE)       | .580                    | .678 | .800  | .850  | 1.184 |   | 400°F             |  |
| B                     | SPIRAL ABRASION              | .508                    | .612 | .754  | .847  | 1.080 |   | 275°F             |  |
| C                     | FIRE SLEEVE                  | .875                    | .940 | 1.100 | 1.230 | 1.480 |   | 400°F             |  |
| D                     | INTEGRAL ABRASION            | .500                    | .625 | .708  | .832  | 1.112 |   | 400°F             |  |
| E                     | SHRINK ABRASION (FEP)        | .470                    | .600 | .700  | .805  | 1.050 |   | 400°F             |  |
| F                     | SHRINK ABRASION (POLYOLEFIN) | .470                    | .610 | .700  | .815  | 1.050 |   | 275°F             |  |

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

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**AEROSPACE STANDARD**  
HOSE ASSEMBLY, NONMETALLIC-3000 PSI, TFE,  
FLARED, 45° TO 45°, LIGHTWEIGHT

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TABLE IV

| HOSE<br>SIZE<br>(REF) | MAXIMUM WEIGHTS  |                              |                           |                            |                                        |                                       |
|-----------------------|------------------|------------------------------|---------------------------|----------------------------|----------------------------------------|---------------------------------------|
|                       | HOSE<br>LBS/INCH | SPIRAL<br>SLEEVE<br>LBS/INCH | TPE<br>SLEEVE<br>LBS/INCH | FIRE<br>SLEEVE<br>LBS/INCH | FIRE<br>SLEEVE<br>CLAMPS<br>(LBS) EACH | STANDARD END<br>FITTING<br>(LBS) EACH |
| 04                    | .010             | .001                         | .003                      | .010                       | .025                                   | .075                                  |
| 06                    | .015             | .002                         | .003                      | .014                       | .025                                   | .121                                  |
| 08                    | .021             | .003                         | .004                      | .016                       | .025                                   | .207                                  |
| 10                    | .028             | .003                         | .004                      | .017                       | .026                                   | .306                                  |
| 12                    | .055             | .004                         | .006                      | .022                       | .026                                   | .566                                  |
| 16                    |                  |                              |                           |                            |                                        |                                       |

TABLE V

| HOSE SIZE | LENGTH (INCHES) |
|-----------|-----------------|
| 04        | 2.00 ± .25      |
| 06        |                 |
| 08        | 2.50 ± .25      |
| 10        |                 |
| 12        | 3.00 ± .25      |
| 16        |                 |

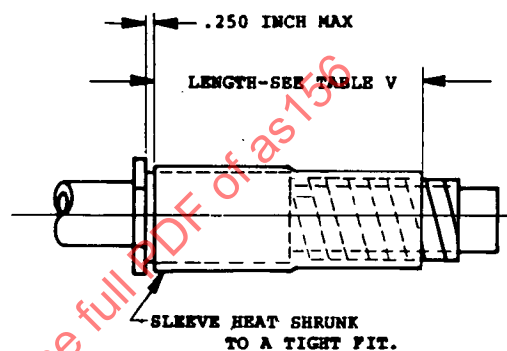


FIGURE 2

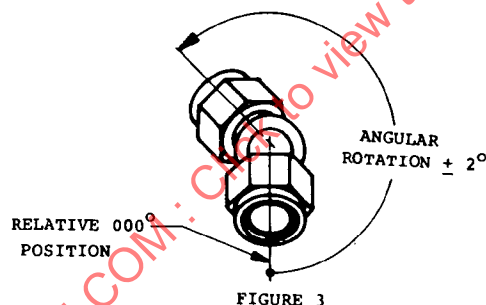


FIGURE 3

CONSTRUCTION AND PERFORMANCE: THESE HOSE ASSEMBLIES SHALL MEET THE CONSTRUCTION AND PERFORMANCE REQUIREMENTS OF AS 1339. FITTINGS SHALL BE PERMANENTLY ATTACHED TO THE HOSE.

RATED OPERATING CHARACTERISTICS: SEE AS 1339.

MATERIALS: HOSE AND FITTINGS-PER AS1339.  
 TUBULAR ABRASION SLEEVE (TPE) - BLACK, EXTRUDED SEAMLESS TPE TUBING PER AS 1291.  
 SPIRAL ABRASION SLEEVE - BLACK, NYLON COIL PER AS1294.  
 FIRESLEEVE - ASBESTOS, IMPREGNATED WITH SILICON RUBBER PER AS1072 "SIL" CODED.  
 INTEGRAL ABRASION SLEEVE - BLACK, INTEGRALLY BONDED SILICON/TPE COMPOSITE.  
 SHRINK ABRASION SLEEVE (FEP) - TRANSLUCENT, SHRINKABLE FEP TUBING PER MIL-I-23053/11.  
 SHRINK ABRASION SLEEVE (POLYOLEFIN) - BLACK, SHRINKABLE POLYOLEFIN TUBING PER AMS 3587 OR MIL-R-46846 TYPE 5.

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

## AEROSPACE STANDARD

HOSE ASSEMBLY, NONMETALLIC-3000 PSI, TPE,  
 FLARED 45° TO 45° LIGHTWEIGHT

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