

MIL-H-85800/2(AS)

16 May 1988

MILITARY SPECIFICATION SHEET

HOSE ASSEMBLIES, POLYTETRAFLUOROETHYLENE, ARAMID FIBER
REINFORCED, 5000 AND 8000 PSI, DESIGN STANDARD FOR
STYLE STRAIGHT TO 45 DEGREES

This specification is approved for use within the Naval
Air Systems Command, Department of the Navy, and is
available for use by all Departments and Agencies of the
Department of Defense.

The complete requirements for acquiring the hose assemblies designed herein shall
consist of this document and the latest issue in effect of specification
MIL-H-85800.

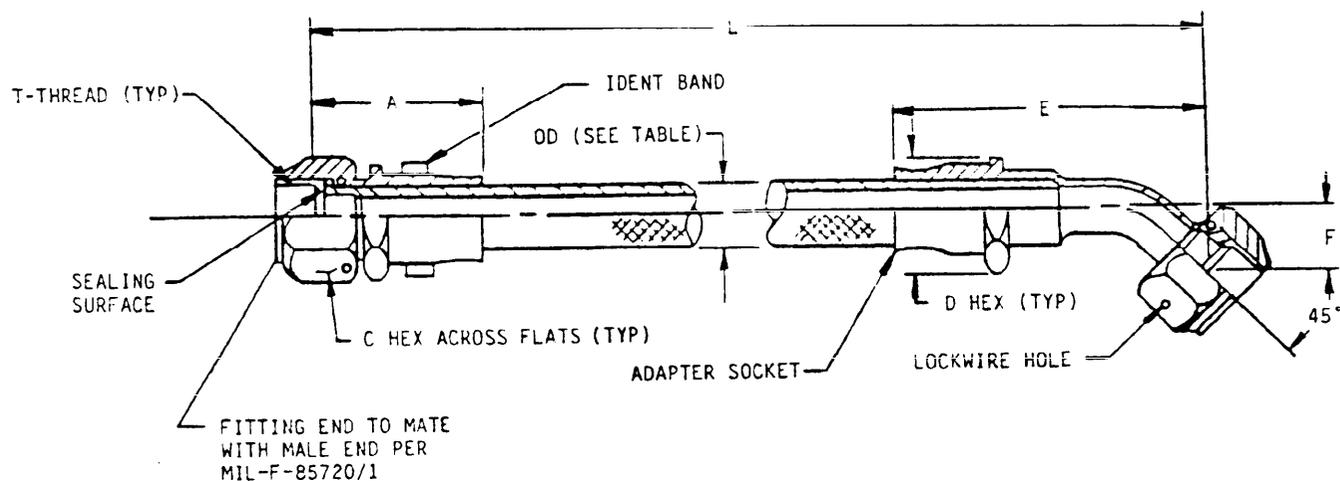


FIGURE 1. Dimensions and configuration

AMSC N/A

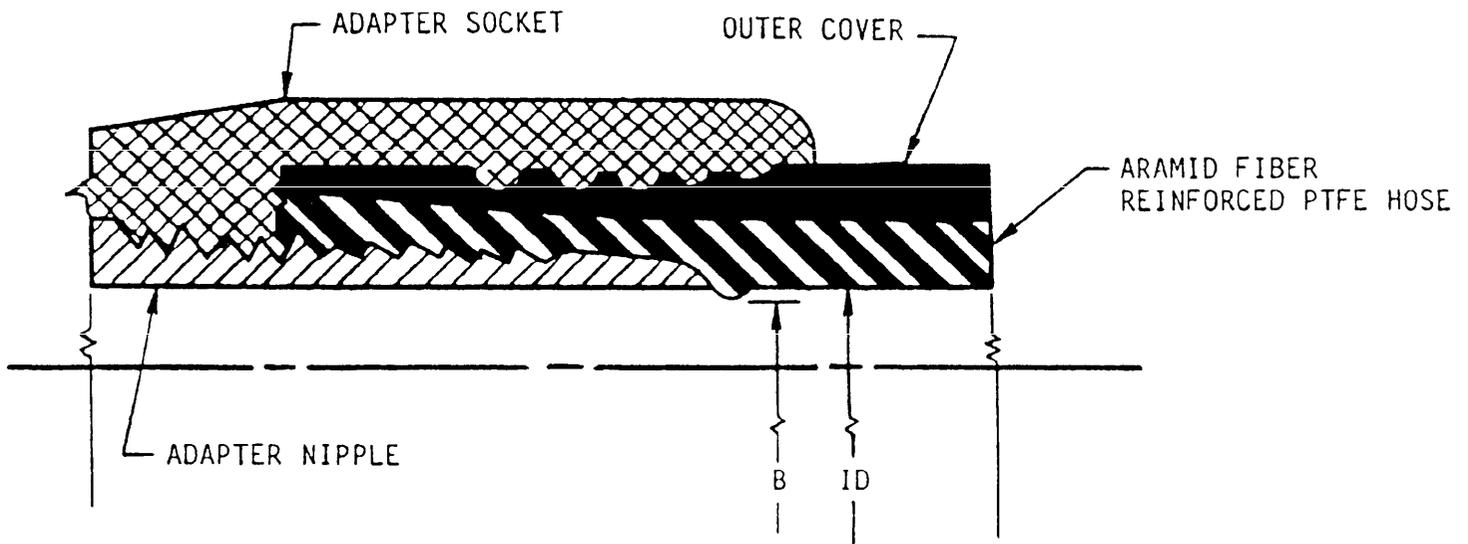
FSC 4720

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TABLE I. HOSE DIMENSIONS AND DESIGN DATA

| DASH NO | HOSE SIZE | THREAD T PER MIL-S-8879 | A MAX | B DIA MIN | C HEX | D HEX | E HEX | F | | ID MIN | OD MAX | HOSE WT. MAX LBS/IN |
|---------|-----------|-------------------------|-------|-----------|-------|-------|-------|------|------|--------|--------|---------------------|
| | | | | | | | | MIN | MAX | | | |
| -03 | .125 | .3750-28UNJS-3B | 1.580 | .063 | .438 | .550 | 2.070 | .450 | .550 | .125 | .395 | .005 |
| -04 | .250 | .4375-24UNJS-3B | 2.100 | .109 | .562 | .690 | 2.510 | .450 | .550 | .212 | .490 | .008 |
| -06 | .375 | .5625-20UNJS-3B | 2.290 | .188 | .688 | .960 | 2.900 | .517 | .600 | .298 | .730 | .019 |
| -08 | .500 | .7188-20UNJS-3B | 2.750 | .313 | .875 | 1.200 | 2.920 | .513 | .675 | .391 | .940 | .028 |
| -10 | .625 | .8438-18UNJS-3B | 2.910 | .375 | 1.000 | 1.330 | 3.900 | .620 | .765 | .485 | 1.090 | .036 |
| -12 | .750 | 1.0000-16UNJ-3B | 3.270 | .469 | 1.125 | 1.650 | 4.610 | .760 | .874 | .602 | 1.405 | .060 |
| -14 | .875 | 1.1250-16UNJS-3B | 3.400 | .595 | 1.250 | 1.750 | 4.820 | .830 | .910 | .745 | 1.625 | .095 |
| -16 | 1.000 | 1.2500-14UNJS-3B | 3.530 | .719 | 1.375 | 1.900 | 4.960 | .890 | .950 | .852 | 1.825 | .104 |

FIGURE 2. Hose fitting detail

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NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance are decimals $\pm .010$ inch; angles ± 1 degree.
3. End fittings are to mate with male end per MIL-F-85720/1.
4. Length "L" is measured from outer corner of sealing surface to outer corner of sealing surface. See Table II for available length increment and tolerances.
5. A true circular cross section is not required through the end fittings. However, the ball diameter B listed in Table I shall pass through the hose assemblies.
6. Thread T shall conform with MIL-S-8879.

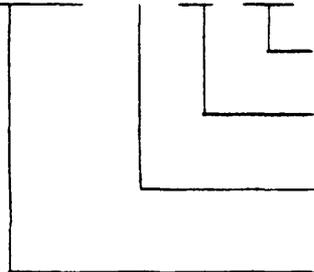
TABLE II. HOSE LENGTH INCREMENT

| HOSE ASSEMBLY LENGTH | AVAILABLE INCREMENT | TOLERANCE |
|----------------------|------------------------|------------------|
| UNDER 18 INCHES | NOT LESS THAN 0.1 INCH | ± 0.100 INCH |
| 18 TO 36 INCHES | NOT LESS THAN 0.2 INCH | ± 0.200 INCH |
| 36 TO 50 INCHES | NOT LESS THAN 0.5 INCH | ± 0.500 INCH |
| OVER 50 INCHES | NOT LESS THAN 1 INCH | ± 1.000 INCH |

7. The part number shall be designated to reflect the base assembly number, lockwire code, hose size and hose length.

Example of part number.

M85800/ 2 - YY ZZZ



Hose length in inches and tenth (215 = 21.5 inches)

Dash Number (04 = 0.250 inch)

Lockwire Code | - = No Lock wire hole
 | W = 2 holes 180 apart

Basic slash sheet number

Preparing Activity
 Navy - AS

(Project No. 4720-N003)