

MIL-H-85800/3 (AS)

16 May 1988

## MILITARY SPECIFICATION SHEET

HOSE ASSEMBLIES, POLYTETRAFLUOROETHYLENE; ARAMID FIBER  
REINFORCED, 5000 AND 8000 PSI, DESIGN STANDARD FOR  
STYLE STRAIGHT TO 90 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.

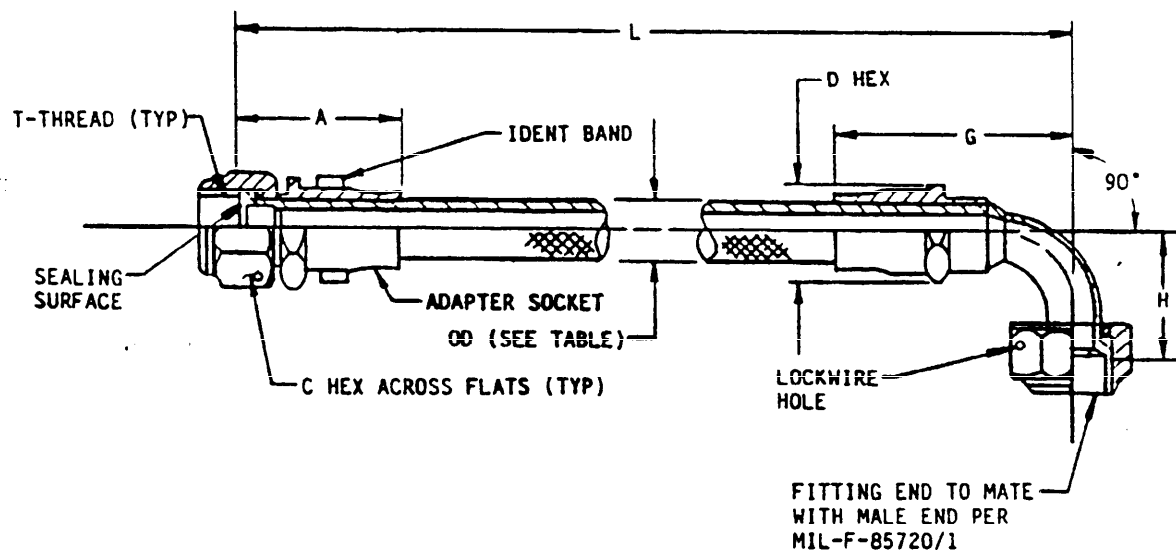


FIGURE 1. Dimensions and configuration

AMSC N/A

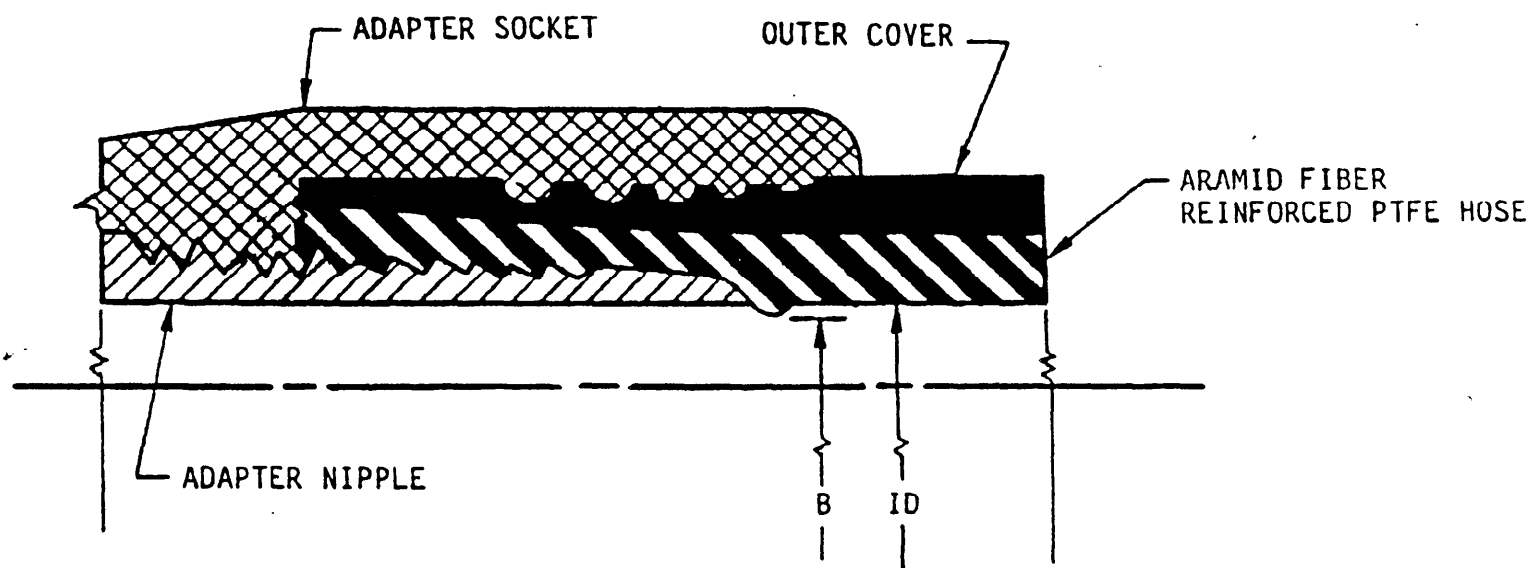
FSC 4720

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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	G MAX	H		ID MIN	OD MAX	HOSE WT. MAX LBS/IN
								MIN	MAX			
-03	.125	.3750-28UNJS-3B	1.580	.063	.438	.550	1.680	.769	.927	.125	.395	.005
-04	.250	.4375-24UNJS-3B	2.100	.109	.562	.690	2.190	.795	.983	.212	.490	.008
-06	.375	.5625-20UNJS-3B	2.290	.188	.688	.960	2.540	1.000	1.125	.298	.730	.019
-08	.500	.7188-20UNJS-3B	2.750	.313	.875	1.200	3.180	1.033	1.240	.391	.940	.028
-10	.625	.8438-18UNJS-3B	2.910	.375	1.000	1.330	3.530	1.258	1.445	.485	1.090	.036
-12	.750	1.0000-16UNJ-3B	3.270	.469	1.125	1.650	4.240	1.530	1.954	.602	1.405	.060
-14	.875	1.1250-16UNJS-3B	3.400	.595	1.250	1.750	4.450	1.750	1.825	.745	1.625	.075
-16	1.000	1.2500-14UNJS-3B	3.530	.719	1.375	1.900	4.620	1.860	1.920	.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  $\pm 1$  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.

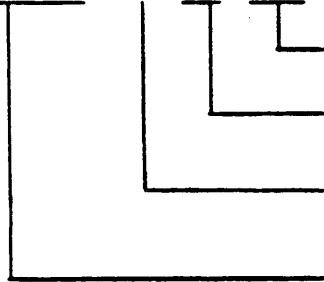
TABLE II. HOSE LENGTH INCREMENT

HOSE ASSEMBLY LENGTH	AVAILABLE INCREMENT	TOLERANCE
UNDER 18 INCHES	NOT LESS THAN 0.1 INCH	$\pm 0.100$ INCH
18 TO 36 INCHES	NOT LESS THAN 0.2 INCH	$\pm 0.200$ INCH
36 TO 50 INCHES	NOT LESS THAN 0.5 INCH	$\pm 0.500$ INCH
OVER 50 INCHES	NOT LESS THAN 1 INCH	$\pm 1.000$ 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/ 3 - 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-N004)