

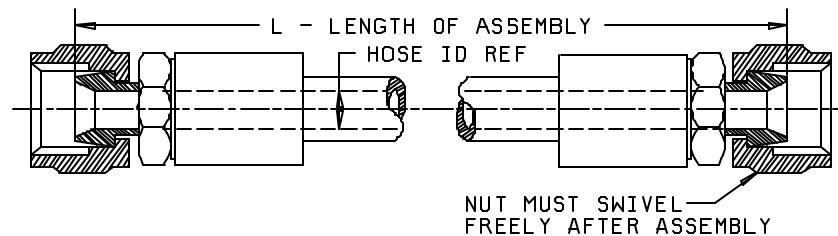
INCH-POUND

MS500083D
16 August 2002
SUPERSEDING
MIL-DTL-13531/2
22 April 1998

DETAIL SPECIFICATION SHEET

HOSE ASSEMBLY, NONMETALLIC: HYDRAULIC AND PNEUMATIC, HIGH PRESSURE, FLARED TUBE

The requirements for acquiring the product described herein
shall consist of this specification and MIL-DTL-13531.



NOTES:

1. All undimensioned pictorial representations are for reference purposes only.
2. Dimension "L" is the defined length of the hose assembly.
3. Hose assemblies shall be specified in the following length increments:
 - a. Under 24 inches - $\frac{1}{2}$ inch increments.
 - b. 24 to 36 inches - 1-inch increments.
 - c. Over 36 inches - in not less than 2-inch increments.
4. Tolerances: $\pm 1/8$ for length under 24 inches, $\pm 1/4^\circ$ for the length from 24 to 36 inches, $\pm 1\%$ for length over 36 inches.

FIGURE 1. General configuration.

MS500083D

TABLE I. Hose and fitting thread sizes.

Dash number		Hose ID reference		Hose OD reference				Fitting thread reference
				Class A		Class B		
Permanent fittings	Reuseable fittings	Inches	mm	Inches	mm	Inches	mm	
3	33	.187	5.0	.625	15.9	.535	13.6	3/8-24
4	34	.250	6.5	.687	17.5	.593	15.0	7/16-20
6	35	.375	9.5	.843	21.4	.754	19.0	9/16-18
8	36	.500	12.5	.968	24.6	.874	22.2	3/4-16
10	37	.635	15.9	1.093	27.8	1.008	25.6	7/8-14
12	38	.750	19.0	1.250	31.8	1.156	29.4	1-1/16-12
16	39	1.000	25.5	1.562	39.7	1.500	38.1	1-5/16-12
20	40	1.250	32.0	2.000	51.0	1.867	47.4	1-5/8-12
24	41	1.500	38.0	2.250	57.1	2.148	54.5	1-7/8-12
32	42	2.000	51.0	2.750	70.0	2.648	67.3	2-1/2-12

REQUIREMENTS

Design and configuration: See figure 1.

Hose material: Type II or III, class A or B.

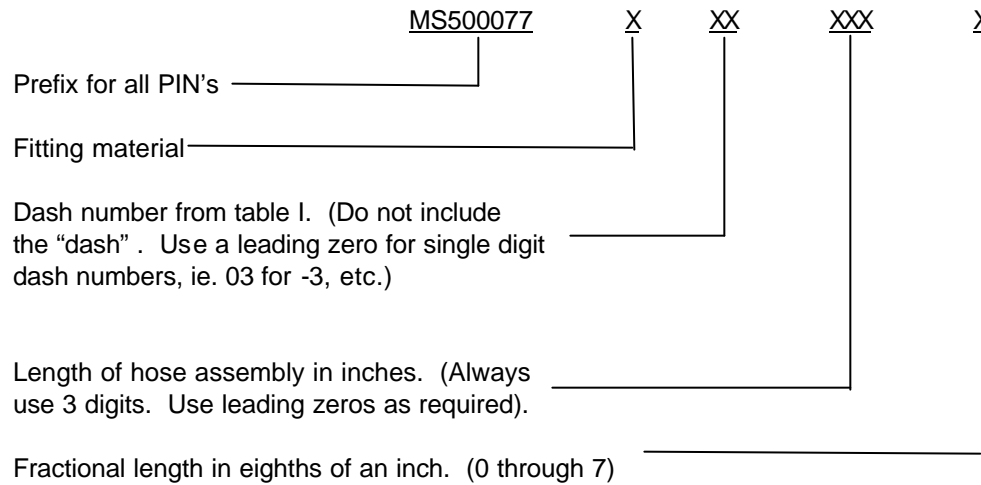
Fitting material:

- S - Corrosion resistant steel.
- Z - Carbon steel zinc plated. (Carbon steel zinc plated is not for use in aircraft, use corrosion resistant steel).
- A - Carbon steel cadmium plated OBSOLETE, code 'Z' will be supplied. If cadmium plating is required, it shall be specified on the order and added cost and delivery delay may be experienced.

Fittings: In accordance with SAE-J516 female 37°, flared type.

MS500083D

Part or Identifying Number (PIN). The PIN is to be used for hose assemblies acquired to this specification. Example is shown below:



CONCLUDING MATERIAL

Custodian:
 Army - AT
 Navy - SH
 Air Force - 99
 DSCC - CC

Preparing activity:
 DLA - CC

(Project 4720-0278-02)

Review activities:
 Army - AR, AV, CR4, MI
 Navy - AS, MC, SA,
 Air Force - 71