

INCH-POUND

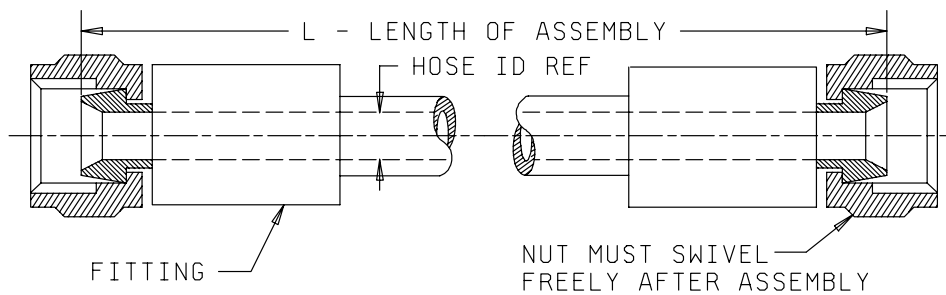
MS500077E
 17 May 2006
 SUPERSEDING
 MS500077D
 16 August 2002

DETAIL SPECIFICATION SHEET

HOSE ASSEMBLY, RUBBER: HYDRAULIC AND
 PNEUMATIC, MEDIUM PRESSURE,
 FEMALE 37° FLARED TUBE

This specification is approved for use by all Departments and Agencies of the Department of Defense.

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



NOTES:

1. All undimensioned pictorial representations are for reference purposes only.
2. Metric equivalents are given for information only.
3. Dimension "L" is the defined length of the hose assembly.
4. Hose assemblies shall be specified in the following length increments:
 - Under 24 inches (0.61 m) ½ inch (12.70 mm) increments.
 - 24 to 36 inches (0.61 m to 0.91 m) - 1-inch (25.40 mm) increments.
 - Over 36 inches (0.91 m)- in not less than 2-inch (50.80 mm) increments.
5. Tolerances:
 - ±1/8 inch (.125 inch) (38.10 mm) for length under 24 inches (0.61 m).
 - ±1/4 inch (.250 inch) (76.20 mm) for the length from 24 to 36 inches (0.61 m to 0.91 m).
 - ±1% for length over 36 inches (0.91 m).

FIGURE 1. General configuration.

MS500077E

TABLE I. Hose and fitting thread sizes.

Size Hose designator	Hose ID Reference		Hose OD reference				Fitting thread reference
			Class A		Class B		
	Inches	mm	Inches	mm	Inches	mm	
3	.187	5.0	.500	12.5	.465	11.8	3/8-24
4	.250	6.5	.625	15.9	.527	13.4	7/16-20
5	.312	8.0	.688	17.5	.590	15.0	1/2-20
6	.375	9.5	.781	20.0	.684	17.4	9/16-18
8	.500	12.5	.906	23.0	.805	20.5	3/4-16
10	.635	15.9	1.031	26.0	.930	23.6	7/8-14
12	.750	19.0	1.187	30.0	1.086	27.6	1-1/16-12
14	.875	22.0	1.313	33.3	1.211	31.0	1-3/16-12
16	1.000	25.5	1.500	38.1	1.430	36.3	1-5/16-12
20	1.250	32.0	1.812	46.0	1.741	44.2	1-5/8-12
24	1.500	38.0	2.082	53.0	1.968	50.0	1-7/8-12
32	2.000	51.0	2.625	66.7	2.500	63.5	2-1/2-12

REQUIREMENTS

Design and configuration: See figure 1 and table I.

Hose material: Type I, class A or B.

Hose and fittings shall be in accordance with MIL-DTL-13531.

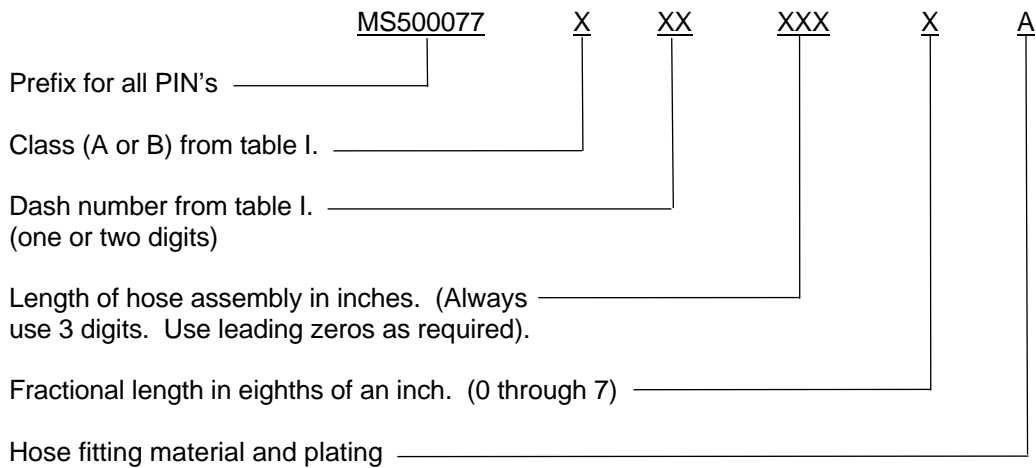
Fittings: Dimensions in accordance with SAE-J516 female 37°, flared type, swivel.

Fitting material and finish shall be in accordance with MIL-DTL-13531 and designated as follows:

- A - Steel Cadmium plated.
- S - Stainless steel.
- Z - Steel -zinc plated (not for use in aircraft.).

MS500077E

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



Changes from previous issue: The margins of this specification are marked with asterisks to indicate where changes from the previous issue were made. This was done as a convenience only and the government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Referenced documents. In addition to MIL-DTL-13531, this document references the following:

SAE-J516

CONCLUDING MATERIAL

Custodians:

Army - AT
Navy - SH
Air Force - 99
DLA - CC

Preparing activity:
DLA - CC

(Project 4720-2005-009)

Review activities:

Army - AR, AV, CR4, MI
Navy - AS, MC, SA
Air Force - 11, 71

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://assist.daps.dla.mil>.