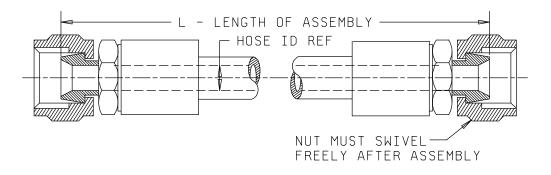
INCH-POUND MS52103E <u>1 June 1999</u> SUPERSEDING MS52103D 6 June 1984

DETAIL SPECIFICATION SHEET

HOSE ASSEMBLY, NONMETALLIC: FUEL AND OIL, MEDIUM PRESSURE, FLARED TUBE

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-13444.



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 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 : ± 1/8 for length under 18 inches, ± 1/4 for the length from 18 to 36 inches, ± 1/2 for the length from 36 to 50 inches, ± 1% for length over 50 inches.

FIGURE 1. General configuration.

AMSC N/A 1 of 3 <u>DISTRIBUTION STATEMENT A</u>. Approved for public release; distribution is unlimited. FSC 4720

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TABLE I. Hose and fitting thread sizes.

DASH NO.	HOSE	HOSE	FITTING
	I.D.	O.D.	THREAD
	REF.	REF.	REF.
- 4	3/16	0.484	7/16 - 20
- 5	1/4	0.547	1/2 - 20
- 6	5/16	0.609	9/16 - 18
- 8	13/32	0.734	3/4 - 16
- 10	1/2	0.828	7/8 - 14
- 12	5/8	0.953	1-1/16 - 12
- 16	7/8	1.203	1-5/16 - 12
- 20	1-1/8	1.484	1-5/8 - 12
- 24	- 24 1-3/8		1-7/8 - 12
- 32	- 32 1-13/16		2-1/2 - 12

REQUIREMENTS

Design and configuration: See figure 1 and table I.

Hose material: The hose used in these assemblies shall be in accordance with MIL-DTL-13444, type III.

Fitting material:

- A Carbon steel cadmium plated.
- B Brass.
- Z Carbon steel zinc plated.

Fittings: Fitting shall be in accordance with SAE J516 female 37°, flared type.

Part or Identifying Number (PIN). The PIN's to be used for hose assemblies acquired to this specification are created as shown in the example below.

<u>MS52103</u>	Z		<u>4</u>	Type of fitting. R = Reusable, P = Permanent Fractional length in eighths of an inch. (0 thru 7) Length of hose assembly in inches. (Always use 3 digits. Use leading zeros as required.) Dash number from table I. (Do not include the "dash". Use a leading zero for single digit dash numbers, ie. 03 for -3, etc.)	
					 Fitting material: Z = Carbon steel, zinc plated. A = Carbon steel, cadmium plated. (Not for new design.) B = Brass Prefix for all PIN's.

Some existing MS PIN's do not completely fit the above layout, but they should continue to be used without change.

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Custodians: Army - AT Navy – YD2 DLA - CC Preparing activity: DLA - CC

(Project 4720-0251)

Review activities: Army - AR, AV, MI Navy - MC, SH