

INCH-POUND

MS52103E

1 June 1999

SUPERSEDING

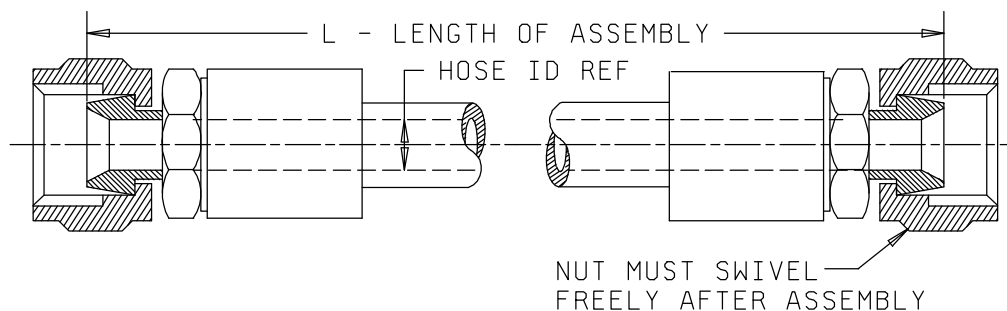
MS52103D

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 - ½ 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 18 inches, $\pm 1/4$ for the length from 18 to 36 inches, $\pm 1/2$ for the length from 36 to 50 inches, $\pm 1\%$ for length over 50 inches.

FIGURE 1. General configuration.

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TABLE I. Hose and fitting thread sizes.

DASH NO.	HOSE I.D. REF.	HOSE O.D. REF.	FITTING THREAD 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	1-3/8	1.722	1-7/8 - 12
- 32	1-13/16	2.143	2-1/2 - 12

REQUIREMENTS

Design and configuration: See figure 1 and table I.

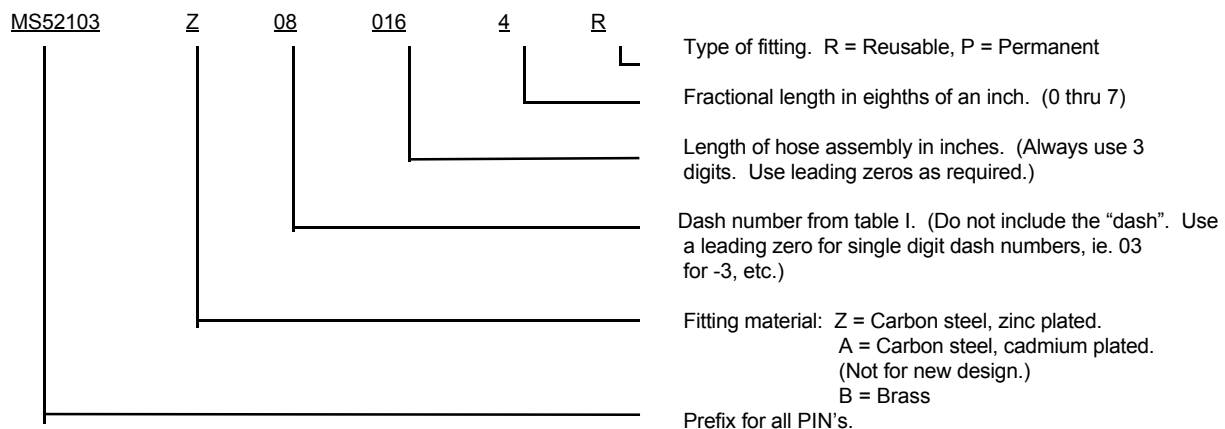
Hose material: The hose used in these assemblies shall be in accordance with MIL-DTL-13444, type III.

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.



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