

DETAIL SPECIFICATION SHEET

HOSE, RUBBER, HYDRAULIC PRESSURE-TYPE, TYPE 100RE  
 FOUR-SPIRAL-WRAP REINFORCEMENT HOSE

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-52471.

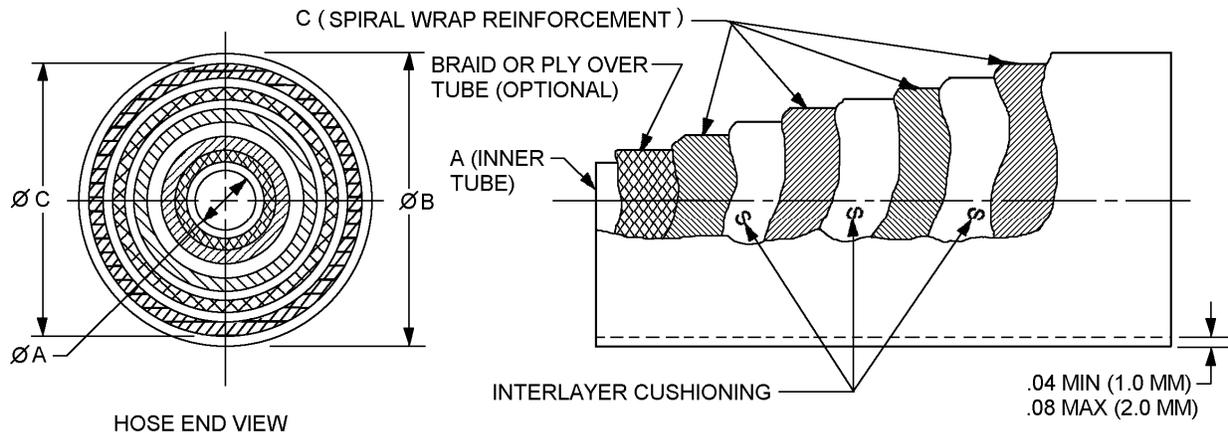


FIGURE 1. Hose: type 100RE, four-spiral-wrap reinforcement.

Operating pressure. Operating pressure as specified in table I.

TABLE I. Hose operating pressure. 1/ 2/

Hose ID dash number	Hose ID			Maximum operating pressure	Minimum burst pressure
	inch fraction	inch decimal	mm	psi (MPa)	psi (MPa)
-8	1/2	.500	12.70	7500 (51.7)	30,000 (206.8)
-12	3/4	.750	19.05	6250 (43.1)	25,000 (172.4)
-16	1	1.000	25.40	5000 (34.5)	20,000 (137.9)

1/ Dimensions are in inches.

2/ Metric equivalents are given for information only.

MIL-DTL-52471/7B

Hose dimensions. Hose dimensions shall be as specified in table II.

TABLE II. Dimensions, type 100RE hose. 1/ 2/

Hose ID dash number	Hose ID (inch)	A ID		B OD	
		inch	mm	inch	mm
-8	1/2	.50 +.021 -.015	1.27 +0.53 -0.38	.98 +.025 -.000	24.9 +0.63 -0.00
-12	3/4	.75 +.031 -.015	1.91 +0.79 -0.38	1.26 ±.031	32.0 ±0.79
-16	1	1.00+.040 -.015	25.4 +1.01 -0.38	1.51 +.045 -.049	38.5 +1.14 -1.24

1/ Dimensions are in inches.

2/ Metric equivalents are given for information only.

TABLE III. Hose characteristics, type 100RE. 1/ 2/

Hose ID dash number	Hose ID (inch)	Minimum bend radius	Weight per foot	C Wire reinforcement OD	
		inch (cm)	lbs (kg)	inch	mm
-8	1/2	8.00 (20.3)	.069 (0.03)	.692/.728	17.58/18.49
-12	3/4	11.00 (27.9)	1.08 (0.49)	1.071/1.133	27.20/28.78
-16	-16	12.00 (30.5)	1.31 (0.59)	1.339/1.401	34.01/35.59

1/ Dimensions are in inches.

2/ Metric equivalents are given for information only.

Concentricity. Concentricity shall be as specified in table IV.

TABLE IV. Concentricity.1/ 2/

Hose ID (inch)	Concentricity	
	Full indicator movement (FIM) between	
	Tube inside diameter (A) and cover outside diameter (B)	Tube inside diameter (A) and reinforcement outside diameter (C)
	inch (mm)	inch (mm)
1/2, 3/4	.040 (1.02)	.028 (.71)
1	.050 (1.27)	.035 (.89)

1/ Dimensions are in inches.

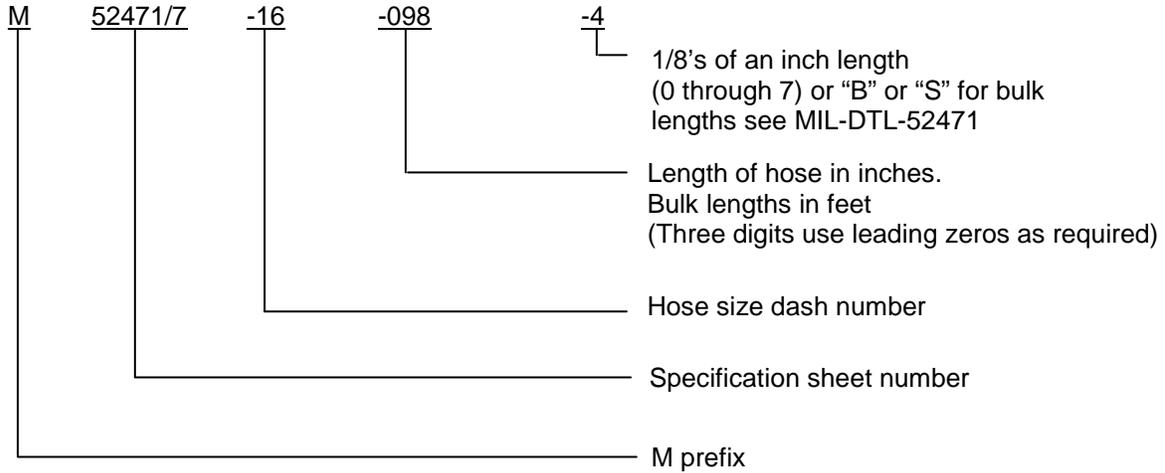
2/ Metric equivalents are given for information only.

REQUIREMENTS:

The hose shall be as specified on figure 1 and tables I through IV.

Inside and outside diameters are measured at least 2 inches (50.80 mm) from the end.

PIN: The PIN consists of the letter "M" the specification sheet number a dash, hose size number, a dash, a three digit number for length of hose (inches for specific lengths, feet for bulk lengths), a dash and the letter B or S for bulk lengths or a number for 1/8's of an inch.



PIN examples:

- M52471/7-16-500-B (1 inch hose 500 feet long).
- M52471/7-6-096-3 (3/8 inch hose 96 and 3/8 inches long).

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue, due to the extent of the changes.

Referenced documents. This document references MIL-DTL-52471.

CONCLUDING MATERIAL

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

Preparing activity:  
 DLA - CC  
 (Project 4720-2007-023)

Review activities:  
 Army - CR4, GL  
 Navy - CG, MC, SA

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>.