

DETAIL SPECIFICATION SHEET

HOSE, RUBBER: HYDRAULIC PRESSURE-TYPE; TYPE 100R12
 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.

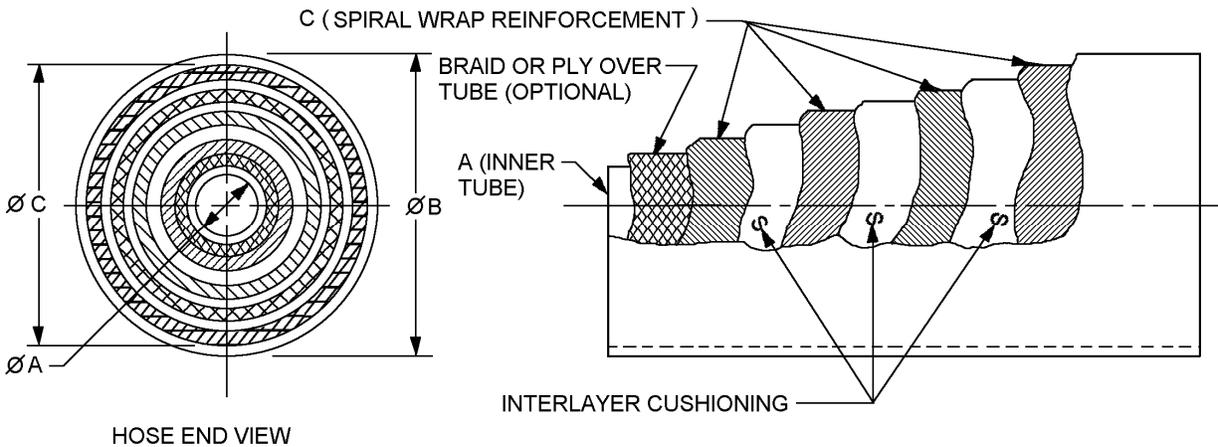


FIGURE 1. Hose: type 100R12, four-spiral-wrap reinforcement.

Hose operating pressure. Hose operating pressure shall be 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	4000	28	16,000	110
-12	3/4	.750	19.05	4000	28	16,000	110
-16	1	1.00	25.40	4000	28	16,000	110

1/ Dimensions are in inches.

2/ Metric equivalents are given for information only.

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

TABLE II. Dimensions, type 100R12 hose.

Hose ID dash number	Metric size <u>1/</u>	Hose ID (inch)	A inner tube ID mm <u>2/</u>		B cover OD mm <u>2/</u>	
			min	max	min	max
-8	12.5	1/2	12.3	13.5	19.9	21.5
-12	19	3/4	18.6	19.8	26.9	28.4
-16	25	1	25.0	26.4	34.1	35.7

1/ Metric size number is not a dimension, it is a label used to identify the product size specified in ISO 4397.

2/ Metric size is taken from SAE J517 and is not a soft conversion.

Hose characteristics. Hose characteristics shall be as specified in table III.

TABLE III. Hose characteristics, type 100R12. 1/ 2/

Hose ID dash number	Hose ID inch	Minimum bend radius		Weight per foot		C wire reinforcement OD	
		inch	cm	lbs	grams	inch	mm
-8	1/2	7.00	17.8	.58	263	.784/.846	19.91/21.49
-12	3/4	9.50	24.1	.87	395	1.059/1.120	26.90/28.45
-16	1	12.00	30.48	1.40	635	1.344/1.405	34.14/35.69

1/ Dimensions are in inches.

2/ Metric equivalents are given for information only.

Hose concentricity. Hose concentricity shall be as specified in table IV.

TABLE IV. Concentricity.

Hose ID (inch)	Concentricity (FIM) between <u>1/</u>	
	Tube ID (A) and cover OD (B)	Tube ID (A) and reinforcement OD (C)
	mm <u>2/</u>	mm <u>2/</u>
1/2, 3/4	1.0	0.7
1	1.3	0.9

1/ Full indicator movement (FIM).

2/ Metric size is taken from SAE J517 and is not a soft conversion.

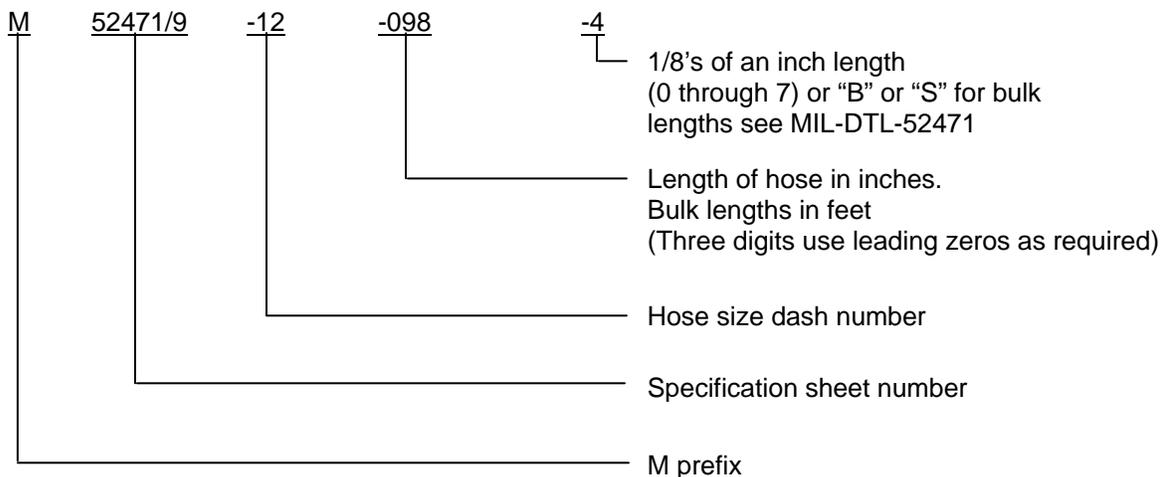
REQUIREMENTS:

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

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

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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:

- M52471/9-8-16-500-B (1/2 inch hose 500 feet long).
- M52471/9-12-096-3 (3/4 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. In addition to MIL-DTL-52471, this document references the following:

- ISO 4397
- SAE-J517

CONCLUDING MATERIAL

Custodians:
Army - CR4
Navy - SH
Air Force - 99
DLA - CC

Preparing activity:
DLA - CC

(Project 4720-2007-025)

Review activities:
Army - AT, 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>.