

INCH-POUND

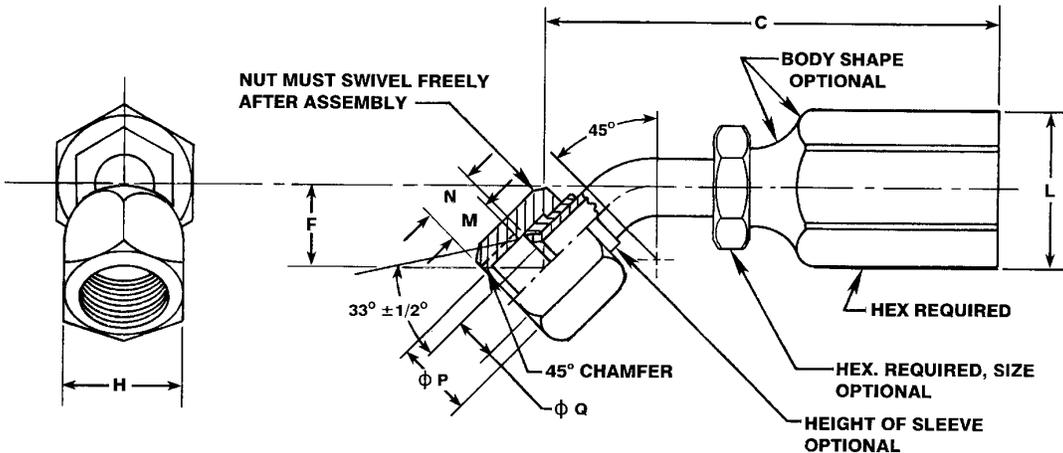
MIL-DTL-52525/38A  
30 June 1998  
SUPERSEDING  
MIL-F-52525/38  
30 June 1987

DETAIL SPECIFICATION SHEET

FITTINGS, HOSE, SCREW-ON TO 37° FLARE FEMALE SWIVEL,  
45° BENT TUBE, TYPE 100R12

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-52525. The fittings described herein are for use with  
MIL-DTL-52471, type 100R12, 4-spiral-wrap reinforcement hose.



- NOTES:  
1. DIMENSIONS P TO BE CONCENTRIC WITH DIMENSION Q WITHIN 0.015 FIM  
2. Q=BORE DIAMETER

FIGURE 1. Fitting, screw-on to 37° flare female swivel, 45° bent tube.

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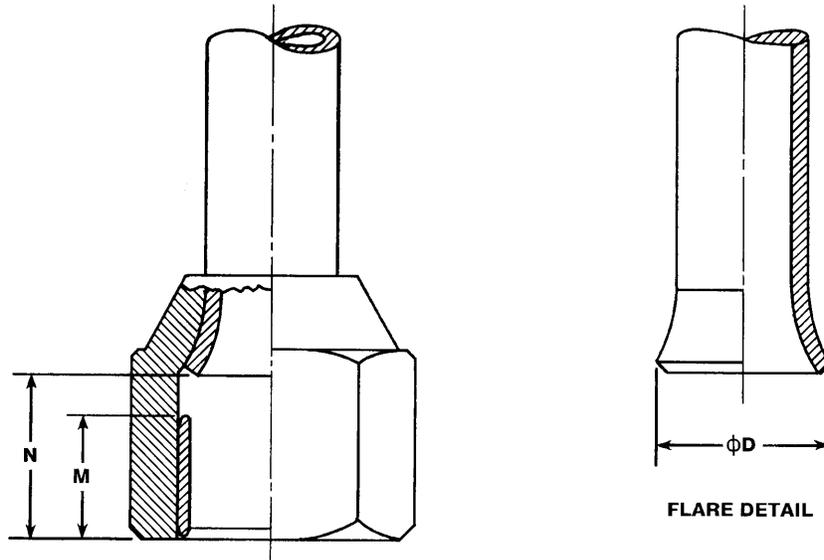


FIGURE 2. Alternate termination radial flare.

TABLE I. Dimensions for type 100R12 fittings, 45° bent tube.

Part number	Hose dash no.	Hose I.D.	Hose O.D.	Tube dash no.	Tube O.D.	Thread size	C Max	F Max
M52525/38-08-08	08	0.50	0.94	08	0.50	3/4-16	4.00	1.00
M52525/38-12-12	12	0.75	1.21	12	0.75	1-1/16-12	5.00	1.20
M52525/38-16-16	16	1.00	1.50	16	1.00	1-5/16-12	6.10	1.55

TABLE I. Dimensions for type 100R12 fittings, 45° bent tube - Continued.

Part number	H Hex size	L Maximum	M Minimum	N +0.030 -0.015	P ±0.005	Q Minimum
M52525/38-08-08	0.88	1.29	0.384	0.435	0.570	0.37
M52525/38-12-12	1.25	1.73	0.487	0.562	0.850	0.56
M52525/38-16-16	1.50	2.02	0.505	0.594	1.103	0.81

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TABLE II. Dimensions for alternate termination.1/

Tube size	D	M	N
0.50	0.656	0.344	0.460
0.75	0.937	0.469	0.562
1.00	1.187	0.563	0.594

1/ Dimensions C, F, H, L, P, and Q shall be in accordance with table I.

TABLE III. Maximum operating pressures of fittings.

Hose I.D.	PSI
0.50	5000
0.75	4000
1.00	4000

TABLE IV. Over-tightening torque for swivel nut.

Tube O.D.	Torque
	Inch pounds (in-lb)
0.50	450
0.75	900
1.00	1200

REQUIREMENTS:

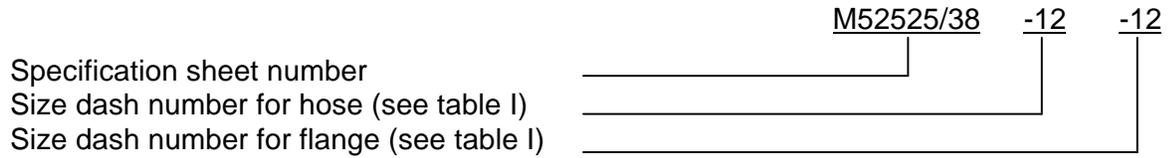
1. The fittings shall be in accordance with figure 1 and tables I, III, and IV. The use of the alternate termination flare as shown in figure 2 and corresponding dimensions of table II is at the option of the contractor.
2. Materials and finishes shall be as specified in MIL-DTL-52525.
3. Marking shall include the manufacturer's name or trademark, size, and hose identifier 100R12. Location of marking is optional.

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NOTES:

1. Dimensions are in inches.
2. Part number.

Example of a Military part number: M52525/38-12-12



CONCLUDING MATERIAL

Custodian:  
Army - AT  
Air Force - 99

Preparing activity:  
DLA - CC  
  
(Project 4730-0859-27)

Review activities:  
Air Force - 82  
Army - AR