

MIL-H-27516D

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 SUPERSEDING  
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## MILITARY SPECIFICATION

## HOSE AND HOSE ASSEMBLY, NONMETALLIC, SUCTION AND DISCHARGE

This specification is approved for use by all Departments  
 and Agencies of the Department of Defense

## 1. SCOPE

1.1 Scope. This specification covers noncollapsible gasoline and jet fuel synthetic rubber hoses and hose assemblies.

1.2 Classification. Hose shall be of the following dimensions and weights as specified (see 6.2):

Inside ( $\pm 1/32$ )	Diameter (In Inches)		Weight (Max. Lb/Ft)
		Outside (+ 1/8, - 1/16)	
1		1-1/2	0.90
1-1/4		1-3/4	1.00
1-1/2		2	1.05
2		2-1/2	1.50
2-1/2		3-1/8	2.15
3		3-5/8	2.50
4		4-21/32	3.60
6		6-13/16	7.00

1.2.1 Part number. Specification part number for items described in this specification will be formulated as shown in section 6.4.

## 2. APPLICABLE DOCUMENTS

2.1 Issues of documents. The following documents of the issue in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein.

Beneficial comments (recommendation, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: AFLC CASO/LODS, Federal Center, Battle Creek, MI 49016 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

FSC 4720

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## SPECIFICATIONS

Federal

TT-S-735 Standard Test Fluids, Hydrocarbon

Military

MIL-P-775 Packaging of Hose, Hose Assemblies; Rubber, Plastic, Fabric, or Metal (Including Tubing); and Fittings, Nozzles, and Strainers.  
 MIL-G-5572 Gasoline, Aviation: Grades 80/87, 100/130, 115/145  
 MIL-T-5624 Turbine Fuel, Aviation, Grades JP-4 and JP-5  
 MIL-C-16173 Corrosion Preventive, Solvent Cutback, Cold-Application  
 MIL-C-27487 Coupling Halves, Quick Disconnect; Cam-Locking Type  
 MIL-C-38404 Couplings, Hose, Reattachable Screw-On  
 MIL-W-83420 Wire Rope, Flexible, For Aircraft Control

## STANDARDS

Federal

FED-STD-162 Hose, Rubber, Visual Inspection Guide for  
 FED-STD-601 Rubber: Sampling and Testing

Military

MIL-STD-105 Sampling Procedures and Tables for Inspection by Attributes  
 MIL-STD-129 Marking for Shipment and Storage  
 MIL-STD-831 Test Reports, Preparation Of  
 MIL-STD-1523 AGE Controls of AGE-Sensitive Elastomeric Material  
 MS27021 Coupling Half, Quick Disconnect, Cam-Locking Type, Male, Hose Shank, Type II  
 MS27025 Coupling Half, Quick Disconnect, Cam-Locking Type, Female, Hose Shank, Type VI  
 MS27028 Coupling Half, Quick Disconnect, Cam-Locking Type, Cap, Dust, Type IX  
 MS27029 Coupling Half, Quick Disconnect, Cam-Locking Type, Plug, Dust, Type X  
 MS27030 Gasket-Coupling Half, Quick Disconnect, Cam-Locking Type

(Copies of specifications, standards, drawings, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting office).

2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless otherwise indicated, the issue in effect on date of invitation for bids or request for proposal shall apply.

American Society for Testing and Materials.

ASTM D156 Standard Method of Test for Saybolt Color of Petroleum Products  
 ASTM D380 Standard Methods of Rubber Testing Rubber Hose  
 ASTM D412 Standard Method of Tension Testing of Vulcanized Rubber  
 ASTM D413 Standard Test Methods for Rubber Property-Adhesion to Flexible Substrate.

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American Society For Testing and Materials (Cont'd)

ASTM D518      Standard Test Method for Rubber Deterioration-Surface Cracking  
 ASTM D1149    Standard Test Method for Rubber Deterioration-Surface Ozone  
 Cracking in a Chamber (Flat Specimen)

(Application for copies should be addressed to the American Society for  
 Testing and Materials, 1916 Race Street, Philadelphia, PA 19103)

## 3. REQUIREMENTS

3.1 Preproduction testing. This specification makes provision for preproduction testing.

3.2 Components. The complete hose assembly shall consist of the basic hose; two reattachable couplings, one attached to each end of the hose; reusable protective caps or plugs, as applicable, for each coupling; and hose clamps when applicable. When specified (see 6.2), the hose shall be provided without couplings, but with adequate caps or seals to prevent the entrance of foreign contaminants.

3.3 Materials. Materials shall be as specified herein. If not specifically designated, the materials shall be of the best quality and entirely suitable for the intended purpose.

3.4 Physical properties.

3.4.1 Adhesion between component parts. For hose up to and including 3 inch ID, the adhesion between component parts for unaged hose shall be a minimum of 12 pounds per inch and for hose aged in accordance with 4.5.4 the adhesion shall be a minimum of 9 pounds per inch. For 4 inch and 6 inch ID hose, the adhesion between component parts for unaged hose shall be a minimum of 10 pounds per inch and for the hose aged in accordance with 4.5.4 the adhesion shall be a minimum of 5 pounds per inch.

3.4.2 Volume increase. The volume increase of the tube and cover after aging in accordance with 4.5.6 shall not exceed 50 and 100 percent, respectively.

3.4.3 Tensile strength. The tensile strength of the tube and cover after aging in accordance with 4.5.7 shall be not less than 600 and 400 respectively.

3.4.4 Ultimate elongation. The ultimate elongation of the tube and cover shall be not less than 200 percent. Furthermore, after aging in accordance with 4.5.7 the ultimate elongation of the tube and cover shall be not less than 100 percent.

3.4.5 Pull resistance. The hose shall not break nor the coupling pull off the hose when subjected to a pull of 1,000 pounds directed along the longitudinal axis in accordance with 4.5.8.

3.4.6 Burst test. When tested in accordance with 4.5.9, the hose shall not blow out of the coupling, burst, nor develop a blister when subjected to the hydrostatic pressure as specified in Table I.

TABLE I

Hose Performance

Inside diameter (inches)	1	1-1/4	1-1/2	2	2-1/2	3	4	6
Proof pressure (Min psi)	175	175	175	175	175	175	100	100
Burst pressure (Min psi)	500	500	500	400	400	400	300	300

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3.4.7 Proof pressure. When tested in accordance with 4.5.2, the hose assembly with couplings attached shall not leak nor show imperfections in either hose or couplings when subjected to the hydrostatic proof pressure specified in Table I for not less than 60 seconds.

3.4.8 Length change. The length of the hose shall not change more than 7 percent during subjection to the proof pressure test (see 4.5.3).

3.4.9 Crush resistance. During the crush resistance test in accordance with 4.5.5, the smallest outside diameter shall be not less than 85 percent of the original outside diameter. After release of the load, the smallest outside diameter shall be not less than 95 percent of the original outside diameter.

3.4.10 Low temperature bending. Specimen of the tube and cover shall withstand bending to a concave shape, shall be maintained in this position for not less than 72 hours at a temperature of  $-42 \pm 2^{\circ}\text{F}$  and shall withstand further bending into a U shape in accordance with 4.5.10.

3.4.11 Environmental vacuum. The hose assembly shall be designed to withstand the environmental vacuum cycling specified in 4.5.11.

3.4.12 Ozone resistance. Ozone resistance shall comply with ASTM D1149. At the end of exposure time, there shall be no visible cracking in the cover with 2X magnification when tested in accordance with 4.5.13.

### 3.5 Details of components.

3.5.1 Hose. The hose shall be fabricated of a compounded inner tube, and interwoven, braided or fabric (woven or cord) reinforcement (wire stiffened), and a compounded cover.

3.5.1.1 Tube. The tube shall be synthetic rubber compounded using a copolymer of butadiene and acrylonitrile as the basic material, and compounded primarily to resist aromatic gasoline and jet fuels and to meet the requirements of this specification. The bore of the tube shall be smooth, free from pitting, objectionable cuttings, borings, or cements, and of a uniform thickness of not less than  $5/64$  inch. Fuel stored in the hose for extended periods shall not experience an unacceptable change in color due to the hose tube when tested in accordance with 4.5.12.

3.5.1.2 Cover. The cover shall be constructed of polymerized chloroprene compounded to meet the requirements of this specification. The cover shall be smooth, free from pitting, and of a uniform thickness of not less than  $3/64$  inch.

3.5.1.3 Reinforcement. The reinforcement shall consist of cotton or synthetic fiber yarns interwoven with, or braided yarns or fabric (woven or cord) above and below, a helix or helices of round steel reinforcing wire. The reinforcing wire shall have the physical and dimensional characteristics required to enable the hose to conform to 3.4.9.

3.5.1.4 Age control. Hose shall be not more than 4 quarters old from the date of manufacture to the date of delivery by hose manufacturers to the procuring activity, to hose couplers, or to manufacturers of accessory equipment; hose installed in such equipment shall be not more than 8 quarters old upon the date of delivery of that equipment to the procuring activity in accordance with MIL-STD-1523.

3.5.2 Couplings. As specified (see 6.1.1, 6.1.1.1, 6.1.1.2 and 6.2), couplings on the ends of the hoses shall conform to Type I or Type II of MIL-C-38404 and unless otherwise specified shall be Class 1 of MIL-C-38404; or shall conform to Type II (MS27021) or Type VI (MS27025) coupling halves of MIL-C-27487 and unless otherwise specified shall be Class 1 of MIL-C-27487.

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3.5.3 Coupling caps. The male couplings conforming to MIL-C-38404 shall be provided with a protective, closed end, reusable threaded metal or plastic cap having a thickness of 0.022 to 0.031 inch. The metal cap shall not be chemically affected by Grade I corrosion-preventive compound conforming to MIL-C-16173. The male couplings conforming to MIL-C-27487 shall be provided with dust caps conforming to Type IX (MS27028) or MIL-C-27487 and shall be of the same class as the male couplings, except with a 1/16 inch diameter wire rope in accordance with Type II Composition B of MIL-W-83420 in lieu of the sash chain.

3.5.4 Coupling plugs and gaskets. The female couplings conforming in MIL-C-38404 shall be provided with a protective, closed end, reusable, threaded metal or plastic plug of suitable thickness. The metal plug shall not be chemically affected by Grade I corrosion-preventive compound conforming to MIL-C-16173. The female couplings conforming to MIL-C-27487 shall be provided with dust plugs conforming to Type X (MS27029) or MIL-C-27487 and shall be of the same class as the female couplings, except with a 1/16 inch diameter wire rope in accordance with Type II composition B of MIL-W-83420 in lieu of the sash chain, and shall be provided with a gasket conforming to MS27030.

3.5.5 Hose clamps. Hose clamps shall be provided for each coupling half conforming to MIL-C-27487. Bands and buckles shall be 300 series corrosion-resistant steel. Band width shall be 3/4 inch for the 4 inch ID and larger hose assemblies and not less than 1/2 inch for those smaller than 4 inch ID. The 6 inch coupling half shall have three clamps and the other sizes two clamps.

### 3.6 Dimensions.

3.6.1 Diameter. The hose assembly shall be furnished in the sizes specified (see 1.2).

3.6.2 Length. The length of the hose assembly shall be as specified (see 6.2) with a tolerance of  $\pm 2$  percent. The length measurement shall be accomplished while the hose assembly is subjected to a 10 $\pm$ 1 psig pressure and shall be measured from the hose interface ends of the couplings.

3.6.3 Weight. The maximum weight of the uncoupled hose per foot shall not exceed the values listed in 1.2.

### 3.7 Identification of product.

3.7.1 Hose. The hose shall be legibly marked along its longitudinal axis with a yellow stripe of a fuel-resistant nature. The stripe shall be broken at intervals of approximately 2 inches.

3.7.2 Label. Each length of hose shall have a label inlaid approximately in the center and vulcanized thereto, containing the following information:

Specification MIL-H-27516D date of manufacture (Quarter and Year)  
Contract or Order No.  
Manufacturer's Name or Trademark

3.8 Workmanship. Workmanship shall be of the quality necessary to produce hose and couplings free from defects that would adversely affect service performance.

## 4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract, the contractor may use his own or

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any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

4.1.1 Component and material inspection. The supplier is responsible for insuring that components and materials used are manufactured, examined and tested in accordance with referenced specifications and standards, as applicable.

4.2 Classification of inspections. The inspection requirements specified herein are classified as follows:

- a. Preproduction inspection (see 4.3)
- b. Quality conformance inspections (see 4.4)
- c. Packaging inspection (see 4.6)

4.3 Preproduction inspection.

4.3.1 Sample. Each sample shall be one hose assembly consisting of a coupling on one end conforming to MIL-C-38404 and a coupling on the other end conforming to MIL-C-27847, with a section of hose of the diameter specified and of sufficient length to provide for all inspections (examination and tests) specified under 4.5 and as prescribed by 4.3.2 and 4.3.3 below.

4.3.2 Examination. The sample shall be examined as specified in 4.5.1.

4.3.3 Tests. The sample shall be used in the tests as specified in 4.5.2 through 4.5.12 inclusive.

4.3.4 Report. Upon completion of the preproduction inspection, a report of the inspection (examination and tests) shall be prepared in accordance with MIL-STD-831.

4.4 Quality conformance inspection. Quality conformance inspection shall be performed on sample hose lengths selected in accordance with 4.4.2. This inspection shall include the examination and tests of 4.5.

4.4.1 Inspection lot. All hose or hose assemblies of the same type and size offered to the Government at one time shall be considered a lot for the purpose of inspection.

4.4.2 Sampling. A random sample of hose lengths shall be selected from each lot in accordance with MIL-STD-105.

4.4.2.1 Sampling for examination, length and weight. Examination, length measurement and unit weight of the hose lengths shall be based on inspection level II and an acceptable quality level (AQL) of 2.5 percent for major defects 4.0 percent for minor defects. The classification of major and minor defects shall be as specified in FED-STD-162.

4.4.2.2 Sampling for destructive tests. One hose length shall be randomly selected from each lot submitted for inspection. After the examination and tests of 4.5 and 4.5.1 have been conducted, the hose shall be cut approximately 3 feet from one end and 15 inches from the other end. These will provide lengths for the pull test and burst test of 4.5.8 and 4.5.9 respectively. An additional length of hose shall be cut from the original length for the other sampling tests required. When hose is ordered in short lengths and is insufficient for tests, the contractor shall furnish extra lengths for test purposes.

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4.4.3 Rejection. If any length of hose or sample sections to be tested fail a test, the lot represented by the samples shall be rejected.

4.5 Examination and tests. Hose or hose assemblies selected in accordance with 4.4.2 shall be visually examined to determine conformance with all requirements in section 3 of this specification.

4.5.1 Examination of product. The examination of the hose length samples shall also include the actual length measurement and weight per foot of hose.

4.5.2 Proof pressure test. Each length of hose with couplings attached shall be subjected to the proof pressure specified in Table I in accordance with ASTM D380, sections 12, 13, 15.1 and 15.3. When hose only (without couplings) is being procured, the coupling on one end shall conform to MIL-C-38404 and the coupling on the other end shall conform to MIL-C-27487.

4.5.3 Length change. While the hose is being subjected to the proof pressure test of 4.5.2, compliance with 3.4.8 shall be determined in accordance with ASTM D380, sections 15.1, 15.1.1 and 15.2.

4.5.4 Adhesion between component parts tested. A 12-inch length of hose shall be filled with a Type III fluid conforming to TT-S-735, stoppered with suitable leak-proof plugs, and maintained at a temperature of  $75^{\circ} \pm 5^{\circ}$ F for 48 hours. Within 15 minutes after removal from the test fluid, adhesion tests in accordance with ASTM D413 shall be conducted on ring specimens cut from the center of the 12-inch length.

4.5.5 Crush resistance test. The crush resistance shall be determined by centering a 12-inch length of hose between 3-inch wide parallel metal plates in such manner that a 3-inch length of hose is being compressed. The plates shall be brought together at a maximum rate of 2 inches per minute until a load of 250 pounds has been applied. The distance between plates shall be measured with a steel rule and expressed in percent of the original outside diameter. The load shall be released and the minimum outside diameter of the hose at the center of the compressed area shall be measured and recorded in percent of the original outside diameter. The test sample shall meet the requirements of 3.6.10.

4.5.6 Volume increase test. The volume increase of the tube and cover shall be determined in accordance with method 6211 of FED-STD-601, except as specified herein. The immersion medium shall be type III fluid conforming to TT-S-735.

4.5.7 Tensile strength and elongation test. Tests for tensile strength and elongation shall be made in accordance with ASTM D412.

4.5.7.1 Tensile and elongation specimens. Die C shall be used for testing in accordance with the methods of 4.5.7 above.

4.5.7.2 Tensile strength and ultimate elongation after immersion. Specimens cut from the tube and cover shall be immersed in type III aromatic hydrocarbon fluid conforming to TT-S-735 at a temperature of  $75^{\circ} \pm 5^{\circ}$ F for 48 hours. The specimens shall be tested for tensile strength and ultimate elongation within 5 minutes after removal from the test fluid. Tensile calculations shall be based upon the original cross-sectional area of the specimen.

4.5.8 Pull resistance test. On coupling of the 15-inch hose assembly shall be held securely in a vise while a pull of 1,000 pounds is applied to the other coupling by any convenient means. The pull rate shall be not less than 1 inch per minute. Neither coupling shall pull off the hose. When hose only (without couplings) is being procured,

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the coupling on one end shall conform to MIL-C-38404 and the coupling on the other end shall conform to MIL-C-27487.

4.5.9 Burst resistance test. Hose assembly of approximately 3 foot length shall be subjected to a burst resistance test conducted in accordance with ASTM D380, section 14.1. The couplings used shall conform to MIL-C-38404, except for the 6 inch ID size, for which size any coupling which will remain on the hose at pressure may be used.

4.5.10 Low temperature bend test. Buffed specimens of the tube and cover, 4-1/2 inches in length and having a constricted portion 2 inches long by 1/4 inch wide, shall be prepared with ends clamped in a U-form between plates at least 2 inches wide and 2-1/2 inches apart, in such a manner that the ends are not held for more than 1/4 inch. The specimen shall be subjected to  $-42 \pm 2$  °F for 72 hours. Upon completion of the 72 hour period and while at this temperature, the plates shall be moved together in 5  $\pm$  2 seconds, until the ends of the specimens are not more than 1 inch apart. The specimens shall then be examined for cracks. If one specimen shows evidence of cracking, two additional specimens shall be prepared and tested. Failure of either of the additional samples shall be cause for rejection.

4.5.11 Environmental vacuum test. One hose assembly of each size being procured shall be completely filled with type III fuel conforming to TT-S-735 and held at atmospheric pressure and temperature for 7 days. The hose assembly shall then be subjected to the following vacuum cycling:

- a. Apply 15 inches mercury (hg) vacuum to the hose assembly and hold for not less than 5 minutes.
- b. Release the vacuum to approximately zero gage.
- c. Repeat a and b every 7 minutes until 500 cycles have been completed. The number of cycles recorded shall be cumulative, and the test may be run continuously or intermittently. The hose assembly shall maintain a vacuum after completion of the above cycles.

4.5.12 Color change test. A length of hose sufficient to contain a minimum of one gallon of fuel shall be filled with Type III fuel conforming to TT-S-735, capped or plugged and permitted to stand for 72 hours with agitation at 24 and 48 hours. After the 72 hour period, fuel drawn from the center section of the hose length shall be tested in accordance with ASTM D156-Test for Saybolt Color. A sample of the original fuel shall also be so tested. A difference in Saybolt Color Units greater than 40 shall cause rejection.

4.5.13 Ozone resistance. Specimens of the cover, prepared as described in Procedure B of ASTM D518 shall be tested in accordance with ASTM D1149. After conditioning for 24 hours in an ozone free atmosphere, the specimens shall be exposed for 72 hours at  $104 \pm 2$  °F to an atmosphere containing 50 parts per hundred million of ozone. Upon completion of the test the specimens shall be examined. Nonconformance to 3.4.12 shall constitute failure of this test.

4.6 Packaging inspection. The preservation, packaging, packing, and marking shall be examined to determine compliance with the applicable quality assurance provisions of the reference document in section 5 of this specification.

## 5. PACKAGING

5.1 Preservation. Preservation shall be level A or C as specified (see 6.2).

5.1.1 Level A. Hoses and hose assemblies shall be preserved in accordance with the level A preservation and packaging requirements of MIL-P-775.

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5.1.2 Level C. Hoses and hose assemblies shall be preserved in accordance with the level C preservation and packaging requirements of MIL-P-775.

5.2 Packing. Packing shall be level A, B or C as specified (see 6.2).

5.2.1 Level A. The hose assembly shall be packed in accordance with level A of MIL-P-775.

5.2.2 Level B. The hose assembly shall be packed in accordance with level B of MIL-P-775.

5.2.3 Level C. The hose assembly shall be packed in accordance with level C of MIL-P-775.

5.3 Marking. Marking shall be in accordance with MIL-STD-129.

## 6. NOTES

6.1 Intended use. Hose assemblies covered by this specification are intended for use in the dispensing of hydrocarbon fuels. Hose and hose sections are used on fuel servicing trucks and air transportable hydrant refueling systems.

6.1.1 Couplings. Use couplings conforming to either MIL-C-27487 or MIL-C-38404.

6.1.1.1 Couplings, MIL-C-27487. Use Class 1, Type II (Male) one end and Type VI (Female) either end.

6.1.1.2 Couplings, MIL-C-38404. Use Class 1, either Type I (Male) or Type II (Female) either end.

6.2 Ordering data. Procurement documents should specify the following:

- a. Title, number, and date of this specification
- b. Inside diameter required (see 1.2)
- c. Coupling specification, coupling class and coupling type required (see 3.5.2), or when only the hose is required without couplings (see 3.2).
- d. Length of hose or hose assembly required (see 3.6.2)
- e. Definitive specification part number required (see 1.2.1 and 6.4)
- f. Applicable levels of preservation and packing (see 5.1)

6.3 Preproduction inspection waiver. Preproduction inspection may be waived if contractors have previously passed the preproduction inspection of MIL-H-27516 for the same size (inside diameter) under previous contracts with the government.

6.4 Definitive specification part number. The specification part number is a definitive part number which will be formulated to identify each item covered by this specification. The part number will be formulated by selecting from the requirements options available in this specification as follows:

Hose Assembly	M27516	X	X.X	X	XX	XX
Definitive Military Specification Part Number						
Military Specification Number						
Hose Assembly Configuration Code Letter (see 6.4.1)						
Hose Size Code Number (see 6.4.2)						
Coupling Class Code Letter (see 6.4.3)						
Length in Feet						
Length in Inches						

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Hose

Definitive Military Specification Part Number M27516 X.X XX XX  
 Military Specification Number \_\_\_\_\_  
 Hose Size Code Number (see 6.4.2) \_\_\_\_\_  
 Length in Feet \_\_\_\_\_  
 Length in Inches \_\_\_\_\_

6.4.1 Hose assembly configuration. Hose coupling specification and coupling specification type for each end are designated by one code letter (see Table II).

TABLE II. Hose assembly configuration code letter

Hose Ass'y Configuration Code Letter	Hose Coupling Specification MIL-C-38404 Type				Hose Coupling Specification MIL-C-27487 Type			
	1st End		2nd End		1st End		2nd End	
	Type I (Male)	Type II (Female)	Type I (Male)	Type II (Female)	Type II (Male)	Type VI (Female)	Type II (Male)	Type VI (Female)
A	X		X					
B		X		X				
C	X			X				
D					X		X	
E						X		X
F					X			X

NOTE: X=Applicable

6.4.2 Hose size. Hose size is designated by a one digit code number (see Table III).

TABLE III. Hose size code number

Hose size Code number	1.0	1.2	1.5	2.0	2.5	3.0	4.0	6.0
Hose ID, Inches	1	1-1/4	1-1/2	2	2-1/2	3	4	6

6.4.3 Hose coupling material. Material of hose couplings is designated by a one digit code letter (see Table IV).

TABLE IV. Hose couplings material code letter

Hose Couplings Material Code Letter	Hose Coupling Specification MIL-C-38404 Class	Hose Coupling Specification MIL-C-27487 Class
R	Class 1 (Brass)	
S	Class 2 (Stainless Steel or Aluminum)	
T		Class 1 (Aluminum)
U		Class 2 (Brass)

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6.5 Supersession data. All sizes of MIL-H-27516 formerly Type I (suction) hose and formerly Type II (discharge) hose are covered by the hose sizes of this specification which serve as either a suction hose or a discharge hose. All hose sizes, exclusive of 1-5/8 inch inside diameter, of former MIL-H-4441 are covered by the hose sizes of this specification.

6.6 Changes from previous issue. Asterisks are not used in this revision to identify changes with respect to the previous issue, due to the extensiveness of the changes.

Custodians:

Army - ME  
Air Force - 99  
Navy - YD

Preparing Activity:

Air Force - 99

Agent:

DLA - CS

Review Activities

Army - AV  
DLA - CS

Project Number 4720-0414

**INSTRUCTIONS:** In a continuing effort to make our standardization documents better, the DoD provides this form for use in submitting comments and suggestions for improvements. All users of military standardization documents are invited to provide suggestions. This form may be detached, folded along the lines indicated, taped along the loose edge (*DO NOT STAPLE*), and mailed. In block 5, be as specific as possible about particular problem areas such as wording which required interpretation, was too rigid, restrictive, loose, ambiguous, or was incompatible, and give proposed wording changes which would alleviate the problems. Enter in block 6 any remarks not related to a specific paragraph of the document. If block 7 is filled out, an acknowledgement will be mailed to you within 30 days to let you know that your comments were received and are being considered.

**NOTE:** This form may not be used to request copies of documents, nor to request waivers, deviations, or clarification of specification requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

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## STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

*(See Instructions – Reverse Side)*

1. DOCUMENT NUMBER		2. DOCUMENT TITLE	
3a. NAME OF SUBMITTING ORGANIZATION		4. TYPE OF ORGANIZATION <i>(Mark one)</i>	
b. ADDRESS <i>(Street, City, State, ZIP Code)</i>		<input type="checkbox"/> VENDOR	
		<input type="checkbox"/> USER	
		<input type="checkbox"/> MANUFACTURER	
		<input type="checkbox"/> OTHER <i>(Specify):</i> _____	
5. PROBLEM AREAS			
a. Paragraph Number and Wording:			
b. Recommended Wording:			
c. Reason/Rationale for Recommendation:			
6. REMARKS			
7a. NAME OF SUBMITTER <i>(Last, First, MI)</i> – Optional		b. WORK TELEPHONE NUMBER <i>(Include Area Code)</i> – Optional	
c. MAILING ADDRESS <i>(Street, City, State, ZIP Code)</i> – Optional		8. DATE OF SUBMISSION (YYMMDD)	

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