

GG-M-2742
26 June 1991
SUPERSEDING
MIL-M-28519A(YD)
11 June 1984

FEDERAL SPECIFICATION

METER, VOLUMETRIC, POSITIVE DISPLACEMENT, LIQUID,
AIRCRAFT FUEL, 600 GPM

This specification is approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

1. SCOPE

1.1 Scope. This specification covers a 600 gallons per minute (gpm) diesel fuel, automotive gasoline, jet fuel and aviation gasoline volumetric, positive displacement meter.

2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications and standards. The following specifications and standards form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation (see 6.2).

Federal Specification

PPP-B-636 - Boxes, Shipping, Fiberboard.

Military Specifications

MIL-W-80 - Window, Observation, Acrylic Base, Antielectrostatic, Transparent (For Indicating-Instrument).

MIL-T-5624 - Turbine Fuel, Aviation, Grades JP-4 and JP-5.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commanding Officer (Code 156), Naval Construction Battalion Center, Port Hueneme, CA 93043-5000, by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

FSC 6680

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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MIL-M-82002 - Manifold and Accessory Assemblies, Portable Fuel
Distribution Systems, Quick-Disconnect Hose Coupling Type.

Federal Standard

FED-STD-H28 - Screw-Thread Standards for Federal Services.

Military Standards

MIL-STD-130 - Identification Marking of U.S. Military Property.
MIL-STD-810 - Environmental Test Methods and Engineering Guidelines.
MIL-STD-2073-1 - DOD Material Procedures For Development & Application of
Packaging Requirements.

(Unless otherwise indicated, copies of federal, military specifications and standards are available from the Standardization Documents Order Desk, Bldg. 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

2.2 Non-Government publications. The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DOD adopted are those listed in the issue of the DODISS cited in the solicitation. Unless otherwise specified, the issues of documents not listed in the DODISS are the issues of the documents which is current on the date of the solicitation (see 6.2).

American National Standards Institute, Inc. (ANSI)

ANSI B16.24 - Class 150 and 300 Bronze pipe Flanges and Flanged Fittings.

(Application for copies should be addressed to the American National Standards Institute, Inc. 1430 Broadway, New York, NY 10018.)

ASTM

ASTM D 3951 - Commercial Packaging, Standard Practice for.

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

(Non-Government standards and other publications are normally available from the organizations that prepare or distribute the documents. These documents also may be available in or through libraries or other informational services.)

2.3 Order of precedence. In the event of a conflict between the text of this specification and the references cited herein, the text of this specification takes precedence. Nothing in this specification, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 Description. The meter shall be a positive displacement meter with 6-inch 300 pound flanged connections (see 3.9.4), capable of handling diesel fuel, automotive gasoline, aviation gasoline and aviation jet fuels at a flow

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rate of 600 gpm. Meter shall have a digital readout register that indicates the gallonage throughput. This register shall be an appurtenant part of the meter, and be mounted on the meter.

3.2 Standard commercial product. The meter shall, as a minimum, be in accordance with the requirements of this specification and shall be the manufacturer's standard commercial product. Additional or better features which are not specifically prohibited by this specification but which are a part of the manufacturer's standard commercial product, shall be included in the meter being furnished. A standard commercial product is a product which has been sold or is being currently offered for sale on the commercial market through advertisements or manufacturer's catalogs, or brochures, and represents the latest production model.

3.3 First article. When specified in the contract or purchase order, a sample shall be subjected to first article inspection (see 4.2.1, 6.2 and 6.4).

3.4 Materials. Materials used shall be free from defects which would adversely affect the performance or maintainability of individual components or of the overall assembly. Materials not specified herein shall be of the same quality used for the intended purpose in commercial practice. Unless otherwise specified herein, all equipment, material, and articles incorporated in the work covered by this specification are to be new and fabricated using materials produced from recovered materials to the maximum extent possible without jeopardizing the intended use. The term "recovered materials" means materials which have been collected or recovered from solid waste and reprocessed to become a source of raw materials, as opposed to virgin raw materials. None of the above shall be interpreted to mean that the use of used or rebuilt products are allowed under this specification unless otherwise specified.

3.5 Design and construction. The meter shall be so designed and constructed as to prevent parts from working loose in service and permit easy accessibility for maintenance and service in the field. The design shall be such as to prevent conditions hazardous to personnel or deleterious to equipment. The meter shall be reversible and shall meet the flow, accuracy, and pressure requirements specified herein. The meter shall be constructed of aluminum, manganese bronze, stainless steel, or nylon, as specified (see 6.2). The meter, including the register, and the 45 degree (deg) ells, when required, shall not exceed the following overall dimensions:

Length - 21 inches
Width - 26-1/2 inches
Height - 24-1/2 inches

Tolerances shall be +/- 0.031 inch. Screw threads shall conform to FED-STD-H28.

3.6 Interchangeability. All units of the same classification furnished with similar options under a specific contract shall be identical to the extent necessary to insure interchangeability of component parts, assemblies, accessories, and spare parts.

3.7 Treatment and painting. Unless otherwise specified (see 6.2), the meter shall be treated and painted in accordance with the manufacturer's standard

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practice. All surfaces of the meter other than corrosion-resisting steel shall be protected against corrosion and present a neat appearance.

3.8 Dissimilar metals. Metals dissimilar with respect to the galvanic scale shall not be used unless separated by a protective material that prevents electrolytic corrosion. Table 1 shows group metals that are compatible.

TABLE I Compatible metals.

Group 1	Group 2	Group 3	Group 4
Magnesium Alloys Most anodic metals	Aluminum Aluminum alloys Cadmium Tin Stainless- Steels	Zinc Cadmium Steel Lead Tin Stainless- Steels	Copper and its alloys Nickel and its alloys Chromium Stainless-steel Gold Silver Most cathodic metals

3.9 Details of components. The meter shall consist of accessory equipment specified (see 6.2), any additional apparatus normally furnished with this type of meter, and the components specified below.

3.9.1 Housing. The meter shall be of 2-case construction so that the measuring element is not exposed to a differential pressure exceeding the maximum pressure loss.

3.9.2 Drain. A drain shall be provided at the lowest point of the meter housing. When closed the drain shall be leakproof.

3.9.3 Adjustment mechanism. The meter shall be equipped with an accuracy adjustment mechanism that will operate without change during the life of the meter, except by manual adjustment. The mechanism shall be calibrated in equally spaced graduations in increments of 1/2 gallon or less, per 1,000 gallons. The accuracy adjustment mechanism shall be so designed as to be direct-reading and permit ready adjustment without disassembly of the mechanism, except for removal of the access cover plate. Provisions shall be made for sealing the adjustment mechanism or cover plate with a lead seal. The accuracy adjustment shall have a minimum range of 5 percent. If lubrication is required, the unit shall be lubricated for the life of the meter.

3.9.4 Inlet and outlet. Unless otherwise specified (see 6.2), the meter shall be designed for straight-through flow and shall be fitted with 45 degree ells having a common longitudinal axis. The meter and ells shall be provided with 6 inch inside diameter, 300 pound (lb) class flanges in accordance with ANSI B16.24, and as specified herein. The minimum flange thickness shall be 1.19 inches. The flange shall be provided with twelve boltholes equally spaced having a diameter of 0.88 inch. The bolthole circle diameter shall be 10.62 inches +/- 0.06 inch. The outside flange diameter shall be 12.50 inches +/- 0.06

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inch (see figure 1). In addition, each meter shall have two rubber gaskets with the companion meter and ell flanges, and must be compatible in shape, size, and bolt hole pattern.

3.9.5 Meter register. The meter register provided may be mounted on the meter housing in a manner convenient to the manufacturer, but shall not extend beyond the overall envelope dimensions of the meter. The register shall contain a set of five direct-reading digits coated with fluorescent, or a bright and glowing type of paint. Each digit shall have a minimum height of 3/4 inch and shall be capable of recording a flow of 99,999 gallons of fuel, and shall be equipped with a 7-digit totalizer unit.

3.9.6 Drive. The meter register shall either have a positive counter drive with no friction devices or a finely adjustable driving mechanism capable of transmitting without slippage, a torque of not less than 40 ounce-inches.

3.9.7 Strainer. When specified (see 6.2), each meter shall be protected from pipe scale or foreign objects by a strainer placed in the piping, near the inlet side of the meter. The strainer shall be constructed of steel, and have an inlet and outlet flange compatible to the 6-inch meter. Each meter will be provided complete with a strainer basket manufactured of cadmium plated steel with Monel metal screen inserts, or of all stainless steel.

3.9.8 Face. The register shall have a transparent, colorless, plastic face of material conforming to MIL-W-80. The face shall be of sufficient size to provide a full view of all digits.

3.9.9 Indexing. The register shall be of a type that can be indexed throughout a full revolution in increments of 30 deg or less, to permit positioning of the register in any direction with relation to the meter housing.

3.9.10 Torque limitation. The breakaway torque required to rotate the input shaft of the register shall not exceed 40 ounce-inches at -65 deg Fahrenheit (F).

3.9.11 Lost motion. When the meter is reversed, the accumulative lost motion through the adjustment mechanism and register shall not exceed 2 recorded gallons.

3.9.12 Thermal protection. When specified (see 6.2), a heating device shall be furnished to protect the meter from low or freezing temperatures.

3.10 Performance.

3.10.1 Static pressure. The meter shall be capable of operating at a working pressure of 150 pounds force per square inch (psi).

3.10.2 Flow pressure drop. The maximum pressure drop between inlet and outlet shall not exceed 5 psi when operating at rated capacity at 138 deg F.

3.10.3 Meter life. The meter shall be capable of a life expectancy that will permit metering of 60 million gallons of fuel at rated capacity and in accordance with the requirements specified herein.

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3.10.4 Meter error. The meter error shall not exceed 0.1 percent for any one predetermined flow rate and accuracy setting. The maximum error shall not exceed 0.3 percent for any one given accuracy adjustment at any flow rate ranging from 30 to 600 gpm.

3.10.5 Overload operation. The meter shall be capable of overload operation at 115 percent of maximum rated capacity in either direction without damage to the mechanism.

3.11 Environmental conditions.

3.11.1 Temperatures. The meter shall be capable of meeting all performance requirements specified herein at ambient temperatures ranging from -71 deg F to +126 deg F. The maximum pressure drop at -65 deg F shall not exceed 4 psi. The meter shall not be damaged by storage at ambient temperatures ranging from -80 deg F to +160 deg F.

3.11.2 Humidity. The meter shall perform satisfactorily after being subjected to humidity conditions specified in 4.5.9.

3.11.3 Salt fog. The meter shall perform satisfactorily after being subjected to salt fog test specified in 4.5.10.

3.11.4 Sand and dust. The meter shall be completely sealed against the deleterious effects of sand and dust, for the test specified in 4.5.11.

3.12 Weight. The net weight of the meter including the register and ells shall not exceed 250 lb.

3.13 Identification marking. Equipment, assemblies, and parts shall be marked for identification in accordance with MIL-STD-130. The nomenclature of the item shall be "Meter, Volumetric, Positive Displacement, Liquid".

3.14 Workmanship.

3.14.1 Bolted connections. Boltholes shall be accurately punched or drilled and shall have the burrs removed. Washers or lockwashers shall be provided in accordance with good commercial practice, and all bolts, nuts, and screws shall be tight.

3.14.2 Castings. All castings shall be sound and free from patching, misplaced coring, warping, or any other defect which reduces the castings ability to perform its intended function.

3.15 Data name plates. Data name plates shall be made of minimum 20 gauge corrosion-resisting metal and attached to each item by rivets, screws or welding in such a manner as to meet the applicable National Sanitation Foundation sanitary requirements for this equipment. Each plate shall be as legible as required for readability, be as permanent as the normal life expectancy of the meter, and be capable of withstanding the environmental tests. The plate shall

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contain the following information stamped, engraved or applied by photosensitive means:

National Stock Number

Procurement Instrument Identification Number

Specification Data

Manufacturer's Name, Address, Phone Number

Supplier's Name, Address, Phone Number

Manufacturer's Model Number

DGSC Approved Manual Number

Each plate shall be placed so that it is readily visible to the operator during normal operating use. Each plate shall be placed in a manner so as to not adversely affect the life and utility of the item.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements (examinations and tests) as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his own or 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 Responsibility for compliance. All items must meet all requirements of sections 3 and 5. The inspections set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to the Government for acceptance comply with requirements of the contract. Sampling inspection, as part of manufacturing operations, is an acceptable practice to ascertain conformance to requirements, however, this does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to accept defective material.

4.1.2 Component and material inspection. Components and materials shall be inspected in accordance with all the requirements specified herein and in applicable referenced documents.

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

- a. First article inspection (see 4.2.1).
- b. Quality conformance inspection (see 4.2.2).

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4.2.1 First article inspection. The first article inspection shall be performed on one meter when a first article is required (see 3.3, 6.2 and 6.4). This inspection shall include the examination of 4.4 and the tests of 4.5. The first article may be either a first article sample or a standard production item from the supplier's current inventory provided the item meets the requirements of the specification and is representative of the design, construction, and manufacturing technique applicable to the remaining items to be furnished under the contract.

4.2.2 Quality conformance inspection. The quality conformance inspection shall include the examination of 4.4, the tests of 4.5.1 and 4.5.2, and the packaging inspection of 4.7. This inspection shall be performed on the samples selected in accordance with 4.3.

4.3 Sampling. For sampling and inspection procedures see 6.5.

4.4 Examination. Each meter shall be examined for compliance with the requirements specified in section 3 of this specification. Any redesign or modification of the contractor's standard product to comply with specified requirements, or any necessary redesign or modification following failure to meet specified requirements shall receive particular attention for adequacy and suitability. This element of inspection shall encompass all visual examinations and dimensional measurements. Noncompliance with any specified requirements or presence of one or more defects preventing or lessening maximum efficiency shall constitute cause for rejection.

4.5 Tests.

4.5.1 Hydrostatic pressure test. The meter shall be subjected to a hydrostatic pressure of 225 psi for 30 minutes. The meter shall show no leakage, rupture, or evidence of failure as a result of this test.

4.5.2 Calibration test. The meter manufacturer shall maintain on file certification of proof that the meter(s) furnished have been calibrated with fuels conforming to MIL-T-5624.

4.5.3 Overload operation test. The meter shall be operated at 115 percent of maximum rated capacity first in one direction for 30 minutes and then for 30 minutes in the opposite direction. There shall be no failure or evidence of strain or wear.

4.5.4 High temperature test. The meter shall be subjected to high temperature in accordance with MIL-STD-810, method 501.1, procedure I, steps 1 through 4. Following the 48-hour exposure at 160 deg F, the meter shall be removed from the chamber and visually examined for deterioration. The meter shall show no deleterious effects from the exposure and shall complete the remainder of the tests in a satisfactory manner.

4.5.5 Low temperature test. The meter shall be subjected to low temperature in accordance with MIL-STD-810, method 502.1, procedure I, steps 1 through 6. Following the period of 24 hours after stabilization, at -71 deg F, the meter shall show no evidence of failure and shall complete the remaining tests in a satisfactory manner.

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4.5.6 Low temperature calibration test. The meter, in an ambient temperature of -65 deg F, shall be calibrated with fuel conforming to MIL-T-5624.

4.5.7 Low temperature pressure drop test. The maximum pressure drop recorded through the low temperature calibration in 4.5.6 shall not exceed 4 psi.

4.5.8 Low temperature test of register torque. With the temperature of the meter register maintained at -65 deg F maximum breakaway torque required to rotate the input shaft of the register for 1 and 5-digit movement shall be determined. This torque shall not exceed 40 ounce-inches.

4.5.9 Humidity test. The meter shall be subjected to humidity in accordance with MIL-STD-810, method 507.1, procedure I, steps 1 through 7. Following this test, the meter shall be visually examined for deterioration, evidence of swelling, separation of components, and related types of failure (see 3.11.2).

4.5.10 Salt fog test. The meter shall be exposed to salt fog in accordance with MIL-STD-810, method 509.1, procedure I. During this test, the inlet and outlet of the meter shall be plugged to prevent internal contamination. The meter shall resist the effects of the test and shall show no evidence of failure or malfunction (see 3.11.3).

4.5.11 Sand and dust test. The meter shall be exposed to sand and dust in accordance with MIL-STD-810, method 510.1, procedure I, steps 1 through 4. During this test, the inlet and outlet of the meter shall be plugged to prevent internal contamination. Upon completion of the test, it shall be demonstrated that the meter is completely operable (see 3.11.4).

4.5.12 Life test. Fuel shall be pumped through the meter at a flow rate of 600 gpm for a total of 500 hours. There shall be no sign of wear, failure, or other defects as a result of this test. Upon completion of the life test and without intervening disassembly, the meter shall satisfactorily complete the tests specified in 4.5.1 through 4.5.13.

4.5.13 Efficiency test of accuracy adjusting mechanism. The accuracy adjusting mechanism shall be installed. The prony brake shall be regulated to produce a frictional resistance of 40 ounce-inches. The adjusting mechanism shall be operated for a minimum of 500 revolutions of the output shaft. Revolutions of both input and output shafts shall be recorded. The frictional resistance of the prony brake shall then be reduced to 0 ounce-inches and the mechanism operated for another 500 revolutions of the output shaft. This procedure shall be followed for three different settings, +2-1/2, 0, and -2-1/2 percent, through the range of the accuracy adjusting mechanism. For each setting, the following ratios shall be determined.

It shall be demonstrated that for each setting $R_{40} = R_0$.

Revolutions of input shaft at 40 ounce-inches load

R40 = -----

Revolutions of output shaft at 40 ounce-inches load

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Revolutions of input shaft at 0 ounce-inches load
 RO - -----
 Revolutions of output shaft at 0 ounce-inches load

4.6 Disassembly inspection. Upon completion of the testing specified in 4.5.1 through 4.5.13, the meter shall be disassembled and its components shall be examined. The meter shall show no abnormal wear.

4.7 Packaging inspection. The preservation, packing, and marking of the item shall be inspected to verify conformance to the requirements of section 5.

5. PACKAGING

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

5.1.1 Level A. Each meter shall be preserved for mechanical and physical protection and packaged in a box conforming to PPP-B-636, class weather resistant.

5.1.2 Commercial. Material shall be preserved in accordance with ASTM D 3951.

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

5.2.1 Levels A and B. Packing shall be in accordance with MIL-STD-2073-1. Containers shall be selected from table VII, Appendix C, for the appropriate level. Only closed containers shall be used.

5.2.2 Commercial. Material shall be packed in accordance with ASTM D 3951.

5.3 Marking. Marking shall be in accordance with MIL-STD-2073-1.

6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. The meter specified herein is part of the Advanced Base Functional Component Petroleum Oil Lube (ABFC POL) system and is intended for metering of fuel pumped into fuel tanker trucks for hauling to various Naval Construction Force (NCF) camp and construction sites. The fuels most generally metered will be diesel fuel and automotive gasoline, however, under some circumstances it will be used for the metering of jet fuel and aviation gasoline. All type fuels used in conjunction with the meter specified herein must pass through a strainer in the piping system, prior to reaching the meter. The meter is also used in conjunction with type VI meter and strainer assembly of MIL-M-82002.

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6.2 Acquisition requirements. Acquisition documents should specify the following:

- a. Title, number, and date of this specification.
- b. Issue of DODISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.1.1 and 2.2).
- c. When first article is required for inspection and approval (see 3.3, 4.2.1, and 6.4).
- d. Type of material required to construct meter (see 3.5).
- e. When treatment and painting are required (see 3.7).
- f. When details of components are required (see 3.9).
- g. When other than 6"-300# class flat faced flange connections are needed on the meter body (see 3.9.4).
- h. When pipe strainers are required (see 3.9.7).
- i. When a thermal protection device is required (see 3.9.12).
- j. Level of preservation and level of packing required (see 5.1 and 5.2).

6.3 Data requirements. When this specification is used in an acquisition and data are required to be delivered, the data requirements shall be developed as specified by an approved Data Item Description (DD Form 1664) and delivered in accordance with the approved Contract Data Requirements List (CDRL), incorporated into the contract. When the provisions of DOD FAR Supplement, Part 27, Sub-Part 27.475-1 (DD Form 1423) are invoked and the DD Form 1423 is not used, the data should be delivered by the contractor in accordance with the contract or purchase order requirements.

6.4 First article. When a first article inspection is required (see 3.3, 4.2.1 and 6.2), the item will be tested and should be a first article sample, or it may be a standard production item from the contractor's current inventory as specified in 4.2.1. The first article should consist of one unit. The contracting officer should include specific instructions in acquisition documents regarding arrangements for examination, test, and approval of the first article.

6.5 Sampling. Sampling and inspection procedures should be in accordance with MIL-STD-105. All meters offered for delivery at one time should be considered a lot for the purpose of inspection. If an inspection lot is rejected, the contractor may rework it to correct the defects, or screen out the defective units, and resubmit for a complete reinspection. Resubmitted lots shall be reinspected using tightened inspection. If the rejected lot was screened, reinspection shall be limited to the defect causing rejection. If the lot was reprocessed, reinspection shall be performed for all defects. Rejected lots shall be separate from new lots, and shall be clearly identified as reinspected lots.

6.5.1 Sampling for examination. Examination should be based on inspection level II and an Acceptable Quality Level (AQL) of 4.0 percent.

6.5.2 Sampling for tests. Tests should be based on inspection level S-2 and an AQL of 4.0 percent defective.

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6.6 Subject term (key word) listing.

Meter
Fuel
Automotive
Aviation

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

MILITARY INTERESTS;

CIVIL AGENCY COORDINATING ACTIVITIES

Custodians:

Navy - YD
Army - ME
Air Force - 99

GSA-FSS

PREPARING ACTIVITY;

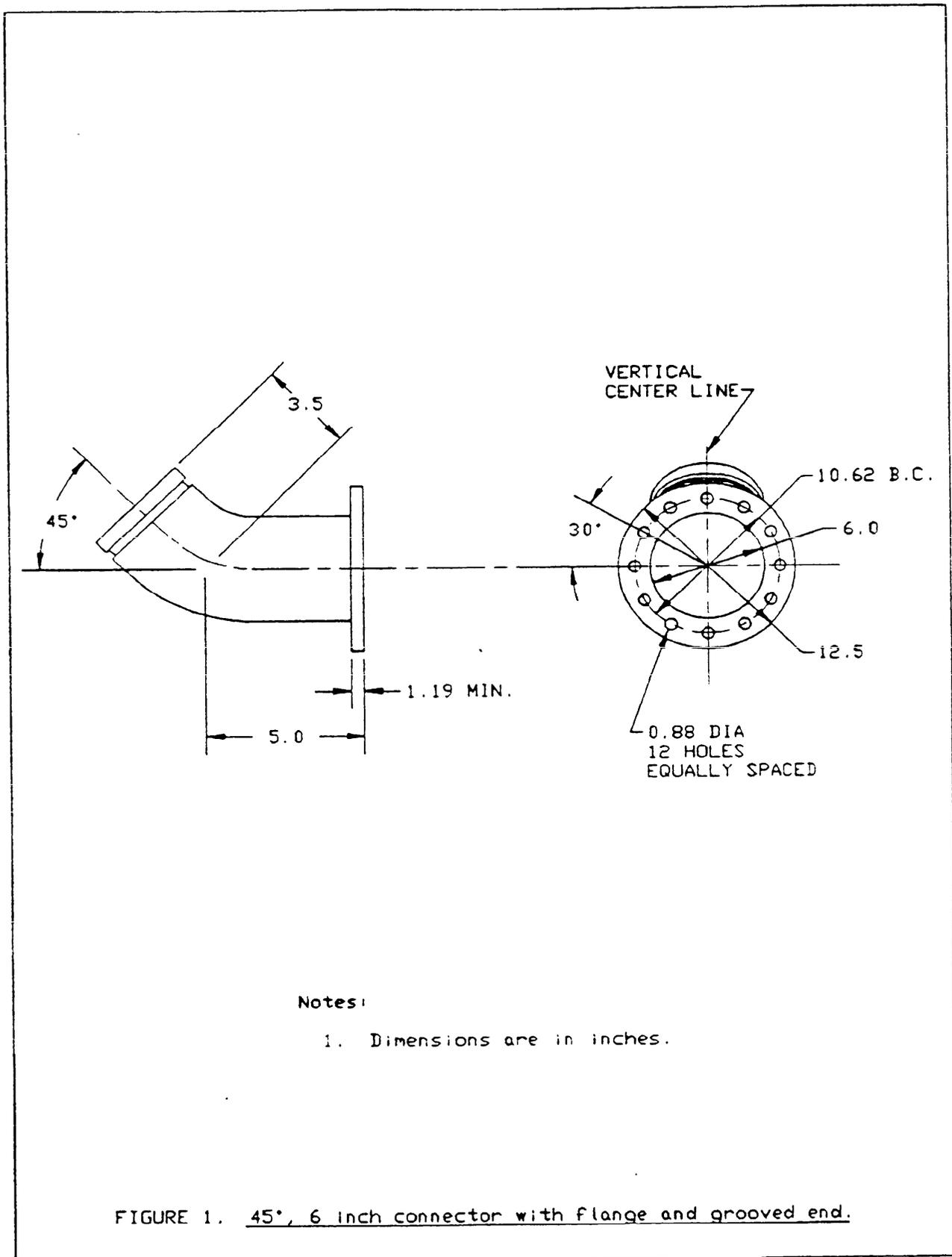
Navy - YD

Review Activities:

DLA-GS
Air Force - 82

(Project 6680-0215)

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STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
2. The submitter of this form must complete blocks 4, 5, 6, and 7.
3. The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of 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.

1. RECOMMEND A CHANGE:		1. DOCUMENT NUMBER GG-M-2742	2. DOCUMENT DATE (YYMMDD) 910626
3. DOCUMENT TITLE METER, VOLUMETRIC, POSITIVE DISPLACEMENT, LIQUID, AIRCRAFT FUEL, 600 GPM			
4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)			
5. REASON FOR RECOMMENDATION			
6. SUBMITTER			
a. NAME (Last, First, Middle Initial)		b. ORGANIZATION	
c. ADDRESS (Include Zip Code)		d. TELEPHONE (Include Area Code) (1) Commercial (2) AUTOVON (If applicable)	e. DATE SUBMITTED (YYMMDD)
8. PREPARING ACTIVITY			
a. NAME Commanding Officer		b. TELEPHONE (Include Area Code) (1) Commercial (805) 982-5572 (2) AUTOVON 551-5572	
ADDRESS (Include Zip Code) Naval Construction Battalion Center CESO (Code 1562C) Port Hueneme, CA 93043-5000		IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT: Defense Quality and Standardization Office 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3466 Telephone (703) 756-2340 AUTOVON 289-2340	