

WW-F-25B
October 31, 1977
SUPERSEDING
WW-F-25A
April 14, 1965

FEDERAL SPECIFICATION
FAUCET (DRUM AND BARREL)

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

1. SCOPE AND CLASSIFICATION

1.1 Scope. This specification covers the requirements for drum and barrel faucets with compression type seats.

1.2 Classification.

1.2.1 Types and classes. Faucets shall be of the following types and classes as specified (see 6.2):

- Type I - Ground key lock lever.
- Type II - Self-closing lock lever.
- Class 1 - With flame arrester.
- Class 2 - Without flame arrester.

2. APPLICABLE DOCUMENTS

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

Federal Standard:

Fed. Std. No. 123 - Marking for Shipment (Civil Agencies).

(Activities outside the Federal Government may obtain copies of Federal Specifications, Standards, and Handbooks as outlined under General Information in the Index of Federal Specifications and Standards and at the prices indicated in the Index. The Index, which includes cumulative monthly supplements as issued, is for sale on a subscription basis by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

(Single copies of this specification and other Federal Specifications required by activities outside the Federal Government for bidding purposes are available without charge from Business Service Centers at the General Services Administration Regional Offices in Boston, New York, Philadelphia, Washington, DC, Atlanta, Chicago, Kansas City, MO, Fort Worth, Houston, Denver, San Francisco, Los Angeles, and Seattle, WA.

(Federal Government activities may obtain copies of Federal Specifications, Standards, and Handbooks and the Index of Federal Specifications and Standards from established distribution points in their agencies.)

Military Standard:

MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes.

(Copies of Military Specifications and Standards required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

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

FSC 4510

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Factory Mutual Research (FMR) Approval Standard:

Class Number 6031 - Self-Closing Faucets.

(Application for copies should be addressed to the Factory Mutual System, Factory Mutual Research, 1151 Boston - Providence Turnpike, Norwood, MA 02062.)

National Motor Freight Traffic Association, Inc., Agent:

National Motor Freight Classification.

(Application for copies should be addressed to the American Trucking Associations, Inc., Traffic Department, 1616 P Street, N.W., Washington, DC 20036.)

Uniform Classification Committee, Agent:

Uniform Freight Classification.

(Application for copies should be addressed to the Uniform Classification Committee, Room 1106, 222 South Riverside Plaza, Chicago, IL 60606.)

3. REQUIREMENTS

3.1 Materials. Faucets shall be manufactured from corrosion-resistant materials.

3.2 Standard product. Faucets covered by this specification shall, as a minimum, be in accordance with this specification and shall be the manufacturer's standard current commercial product.

3.3 General.

3.3.1 Type I. Type I faucets shall be of the ground key lock level type with 3/4-14NPT threads for attachment. Faucets shall have a metal to metal seat, and lock lever. The body of the faucet shall have a cast or milled section suitable to accept a wrench

3.3.2 Type II. Type II faucets shall be of the self-closing type with 3/4-14NPT threads for attachment. Faucets shall be designed to lock in the closed position. The body of the faucet shall have a cast or milled section suitable to accept a wrench.

3.3.2.1 Class 2. Class 2 faucets shall have a metal to metal or a nylon, polyethylene, or teflon to metal seat.

3.4 Performance.

3.4.1 Faucet flow rate. All faucets shall be capable of a flow rate of 3-1/2 gallons per minute when tested in accordance with 4.5.1.

3.4.1.1 Type I and type II, class 2 faucets. There shall be no leakage through the valve stem or from the valve seat when the faucet is not in operation (see 4.5.2).

3.4.2 Type II, class I faucets. Type II, class 1 faucets shall conform to the requirements of FMR Approval Standard for Class 6031 (see 4.5.3).

3.5 Workmanship. Faucets shall be free of burrs, sharp edges, cracks, and other defects which impair their use for the purpose intended.

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 as specified herein. Except as otherwise specified in the contract or 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.

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4.2 Sampling for examination and tests (end item). Select sample size for examination in accordance with level S-3 in MIL-STD-105. Select sample size for tests in accordance with level S-2 in MIL-STD-105.

4.3 Examination. Examine faucets for the defects listed in table I. The Acceptable Quality Levels (AQL's) for defects shall be 2.5 percent defective for major defects and 6.5 percent defective for total defects.

TABLE I. Classification of defects

| Defects | Major | Minor |
|---|-------|-------|
| Type and class not as specified | X | |
| Threads not as indicated | X | |
| Lever operation, not as indicated | X | |
| Wrench flats missing | X | |
| Burrs, sharp edges not affecting serviceability | | X |
| Damage or defects not affecting serviceability | | X |

4.4 Tests.

4.4.1 Frequency of tests, type II, class 1 faucets only. The tests described in 4.5.3 shall be conducted on a minimum of three faucets in the initial inspection and thereafter only upon change in design, material, method or location of manufacture.

4.4.2 Samples selected in accordance with 4.2 shall be tested as specified in 4.5.

4.4.3 Rejection. Failure of any test specimen to pass any of the tests specified in this specification shall be cause for rejection.

4.5 Test methods.

4.5.1 Flow rate (all faucets). Insert a faucet into a 55 gallon barrel or drum. Place the barrel or drum in a horizontal position and fill with water. Open the faucet fully and measure flow rate for conformance to 3.4.1.

4.5.2 Leakage, type I and type II, class 2 faucets. Upon completion of test in 4.5.1, refill drum or barrel. With faucet in closed position remove any water present on faucet exterior and interior of faucet spout. Place a dry container under faucet for 5 minutes. At end of 5 minute period, examine container and faucet for conformance to 3.4.1.1.

4.5.3 Performance tests, type II, class 1 faucets only. Test type II, class 1 faucets for operation, thread strength, flame arrester and fire exposure in accordance with FMR Approval Standard for Class Number 6031 (see 3.4.2).

4.6 Inspection of preparation for delivery requirements. An inspection shall be made to determine whether the packaging, packing, and marking requirements comply with section 5 of this specification. Defects shall be scored in accordance with table II. For examination of contents, the sample unit shall be one shipping container fully prepared for delivery selected just prior to the closing operations. Sampling shall be in accordance with MIL-STD-105. Defects of closure listed shall be examined on shipping containers fully prepared for delivery. The lot size shall be the number of shipping containers in the end item inspection lot. The inspection level shall be S-2 and the AQL shall be 4.0 defects per hundred units.

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TABLE II. Classification of preparation
for delivery defects.

| | |
|----------------------------------|---|
| Markings (exterior and interior) | Omitted; incorrect; illegible; improper size, location, sequence, or method of application. |
| Materials | Any component missing or damaged. |
| Workmanship | Inadequate application of components such as incomplete closure of container, loose strapping, inadequate stapling. Bulging or distortion of container. |

5. PREPARATION FOR DELIVERY

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

5.1.1 Level A.

5.1.1.1 Unit packaging. Each faucet shall be packaged in accordance with normal commercial practice. The complete package shall be designed to protect the item against damage during shipment, handling and storage.

5.1.1.2 Intermediate packaging. Six faucets packaged as specified in 5.1.1.1 shall be further packaged in accordance with normal commercial practice. The complete package shall be designed to protect the item against damage during shipment, handling and storage.

5.1.2 Commercial. Each faucet shall be packaged in accordance with normal commercial practice. The complete package shall be designed to protect the item against damage during shipment, handling and storage.

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

5.2.1 Level A. The faucets, packaged as specified in 5.1.1, shall be packed in boxes made from weather resistant fiberboard having a bursting strength of not less than 275 pounds per square inch. The box flaps shall be secured with water resistant adhesive applied to the entire area of contact between the flaps or with 3-inch wide water resistant tape applied to the full length of the center seams and extending over the ends not less than 3 inches. Alternatively, cleated plywood, wirebound or nailed wood boxes shall be acceptable shipping containers when lined with a waterproof barrier material. The edges of the barrier material shall be sealed with waterproof tape or adhesive.

5.2.2 Commercial. The packaged faucets shall be packed in fiberboard boxes to insure safe delivery at destination, to provide for safe redistribution by the initial receiving activity, and shall be acceptable by common carrier under National Motor Freight Classification or Uniform Freight Classification.

5.3 Unitization. When shipments to Government depots are full car or truckload, the shipping containers shall be unitized for shipment and handling in accordance with normal commercial practice. The unitized load shall not exceed 2,500 pounds in weight, 63 inches in height, 56 inches in length, and 45 inches in width.

5.4 Marking. Packages, shipping containers and unitized loads (when applicable) shall be marked in accordance with Fed. Std. No. 123.

6. NOTES

6.1 Intended use. The barrel faucets covered by this specification are intended to be inserted into a barrel or drum for the dispensing of the liquid contents as needed.

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6.2 Ordering data. Purchasers should exercise any desired options offered herein, and procurement documents should specify the following:

- (a) Title, number, and date of this specification.
- (b) Type required (see 1.2).
- (c) Level of packaging and packing required (see 5.1 and 5.2).

6.3 Recycled plastic material. Clean, rework plastic material generated from the manufacturer's own faucet production, may be used by the same manufacturer, provided the faucets produced meet all the requirements of this specification.

MILITARY INTERESTS:

Custodians:

Army - ME
Air Force - 99

Review Interest:

DCSC - CS

User Interest:

Navy - MC

Military Coordinating Activity:

Army - ME

Preparing activity:

GSA-FSS

Civil Agency Coordinating Activities:

DC GOVT - DCS
GSA - FSS
HEW - FEC

Orders for this publication are to be placed with General Services Administration, acting as an agent for the Superintendent of Documents. See Section 2 of this specification to obtain extra copies and other documents referenced herein. Price 60 cents each.