

MIL-T-25186A**5 JULY 1961****SUPERSEDING****MIL-T-25186(USAF)****10 AUGUST 1955****MILITARY SPECIFICATION****TOILETS, AIRCRAFT, CHEMICAL**

This specification has been approved by the Department of Defense and is mandatory for use by the Departments of the Army, the Navy, and the Air Force.

1. SCOPE

1.1 This specification covers three sizes of chemical aircraft toilets.

1.2 Classification. Toilets shall be one of the following sizes, as specified:

Size — 1½ gallon capacity

Size — 3 gallon capacity

Size — 6 gallon capacity

PPP-B-636 — Boxes; Fiberboard.

PPP-B-665 — Boxes; Paper-Board, Metal Stayed (Includes Stayed Material).

PPP-B-676 — Boxes, Set-Up Paper-board.

PPP-T-60 — Tape, Pressure Sensitive Adhesive, Waterproof for Packaging and Sealing.

2. APPLICABLE DOCUMENTS

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

MILITARY

JAN-P-100 — Packaging and Packing for Overseas Shipment, General Specification.

MIL-M-14 — Molding Plastic and Molded Parts, Thermo-setting.

MIL-P-116 — Preservation, Methods of.

MIL-R-3043 — Resin - Coating, Permanent (For Internal Engine Parts).

MIL-C-5541 — Chemical Films for Aluminum and Aluminum Alloys.

MIL-E-7729 — Enamel; Gloss, for Aircraft Use.

SPECIFICATIONS**FEDERAL**

NN-P-515 — Plywood, Container Grade.

PPP-B-591 — Boxes, Fiberboard, Wood-Cleated.

PPP-B-601 — Boxes, Wood, Cleated-Plywood.

PPP-B-621 — Boxes, Wood, Nailed and Lock-Corner.

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- MIL-C-8514 — Coating, Compound, Metal Pretreatment, Resin-Acid.
- MIL-P-8585 — Primer Coating, Zinc Chromate, Low-Moisture-Sensitivity.
- MIL-A-8625 — Anodic-Coatings, for Aluminum and Aluminum Alloys.
- MIL-L-10547 — Liners, Case, Waterproof.
- MIL-D-70327 — Drawing, Engineering and Associated List.

STANDARDS**FEDERAL**

FED-STD-595 — Colors.

MILITARY

- MIL-STD-105 — Sampling Procedures and Tables for Inspection by Attributes.
- MIL-STD-129 — Marking for Shipment and Storage.
- MIL-STD-130 — Identification Marking of U.S. Military Property.
- MS33586 — Metals-Definition of Dissimilar.

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

3. REQUIREMENTS

3.1 Materials. Materials shall be as specified herein.

3.1.1 General. The toilet shall be constructed of aluminum. The seat shall be constructed of thermoplastic material conforming to Specification MIL-M-14, type CFG. Hardware shall be constructed of corrosion resistant metals or suitably protected to resist corrosion.

3.1.2 Dissimilar Metals. Unless suitably protected against electrolytic corrosion, dissimilar metals shall not be used in intimate contact with each other. Dissimilar metals are defined in Standard MS33586.

3.2 Design. The toilets shall conform to the design of figures 1, 2, 3, and 4 as applicable. Each toilet shall have a main housing with a vent, inner bucket, bucket cover, splash horn, seat and seat cover. The housing shall be adapted for mounting to the floor of the aircraft. The inner bucket shall have the top brim flanged so that it fits snugly between the bucket cover, which rests on the toilet base, inside the main housing, and the splash horn. The bucket shall be provided with handles. The handles must not interfere with placement of the bucket within the toilet housing. The bucket cover, which will normally be stored on the bottom, inside of the toilet body, shall have a slit in the top to allow the handle when standing erect, to pass through the slit. A hole one inch in diameter shall also be provided on a circle 4 inches smaller than the outside diameter of the bucket cover.

3.3 Construction.

3.3.1 Dimensions. The dimensions shall be as shown on figure 1, 2 and 3 as applicable to sizes required.

3.3.2 Capacities. The normal capacity of the inner bucket when filled to the bottom of the horn shall not be less than the gallon capacity required according to size (see paragraph 1.2).

3.3.2.1 Maximum. The maximum capacity of the inner bucket when filled to the brim shall not be less than the following:

Size—1½ gallon	— 2½ gallons
Size—3 gallon	— 4 gallons
Size—6 gallon	— 8 gallons

3.3.2.2 Weights. Maximum weights for empty toilets shall not be more than the following:

Size—1½ gallon	— 6½ pounds
Size—3 gallon	— 7½ pounds
Size—6 gallon	— 10 pounds

3.3.2.3 Finish. All aluminum parts of the toilet shall be anodized in accordance with Specification MIL-A-8625 or chemically treated in accordance with Specification MIL-C-5541. All exterior parts of the toilet shall be treated

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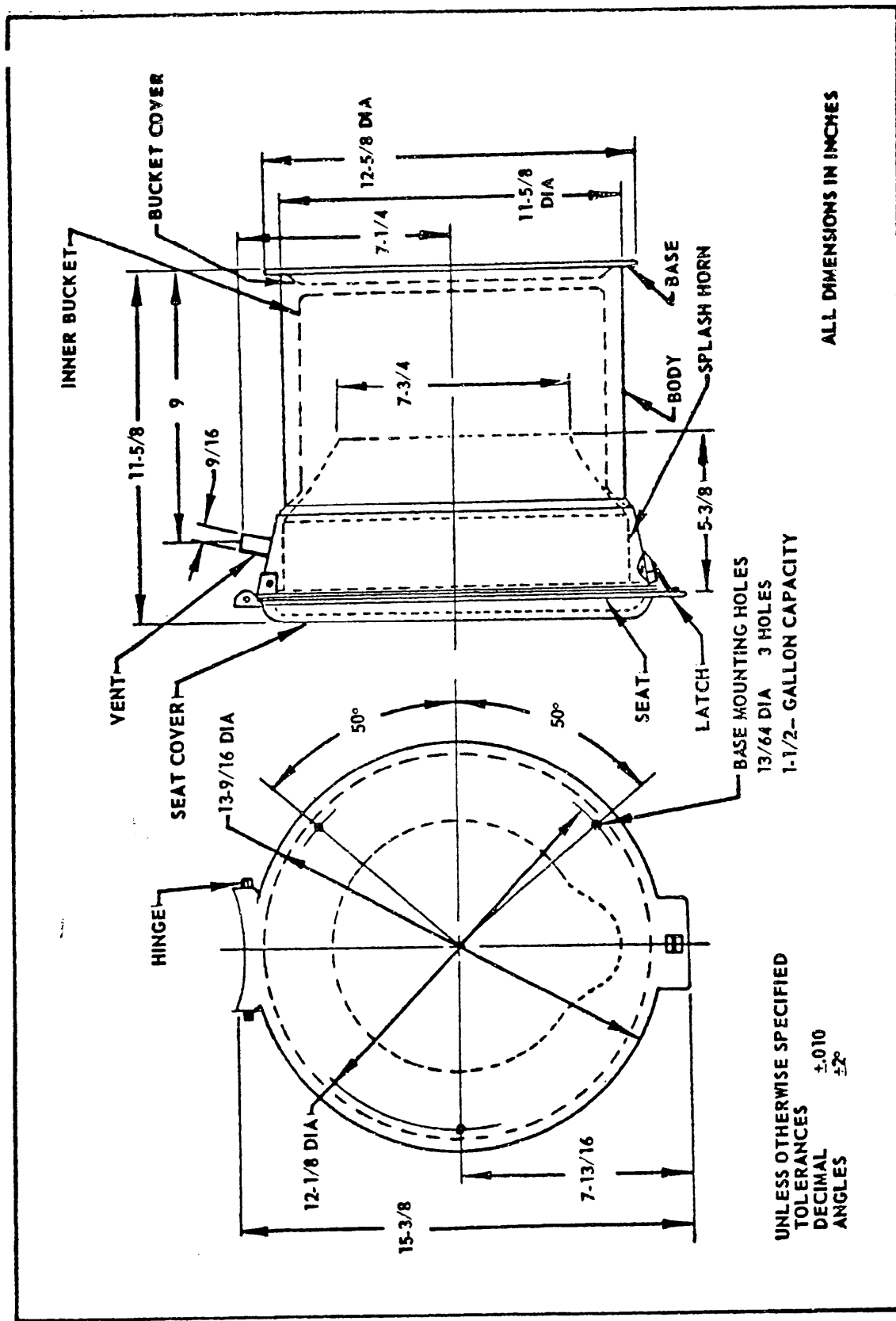


FIGURE 1. 1 1/2-gallon capacity.

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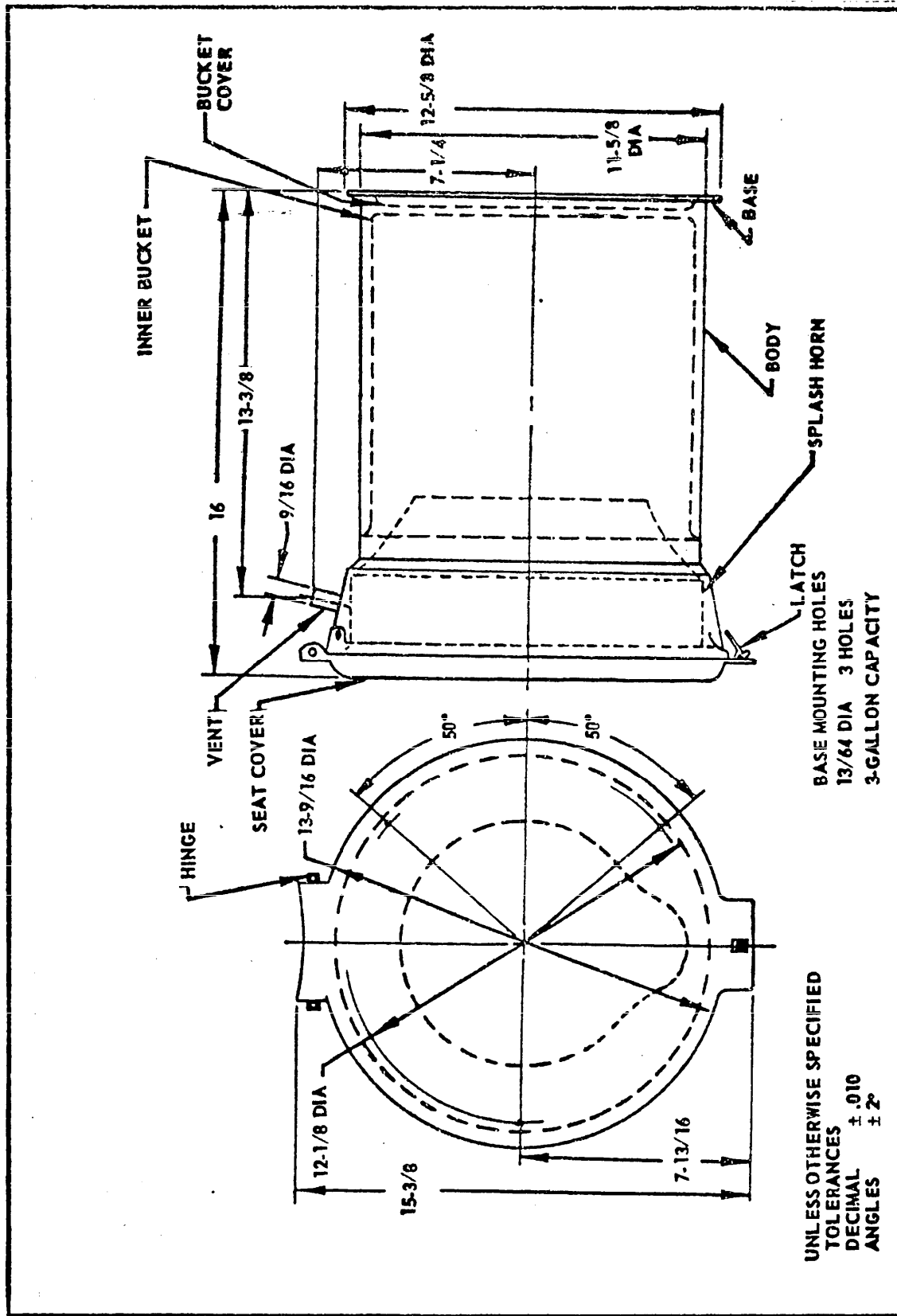


Figure 2. 3-gallon capacity.

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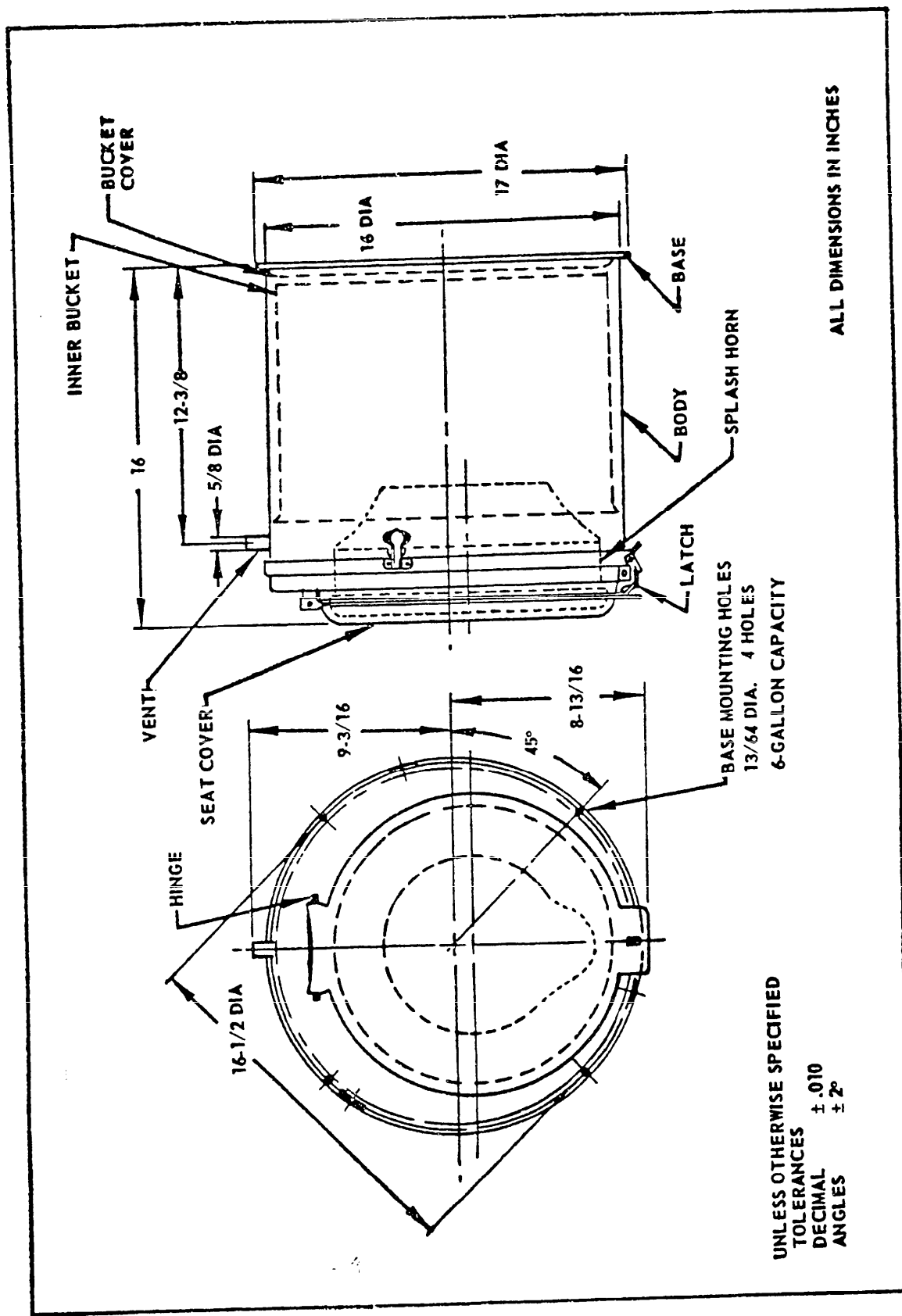


FIGURE 3. 6-gallon capacity.

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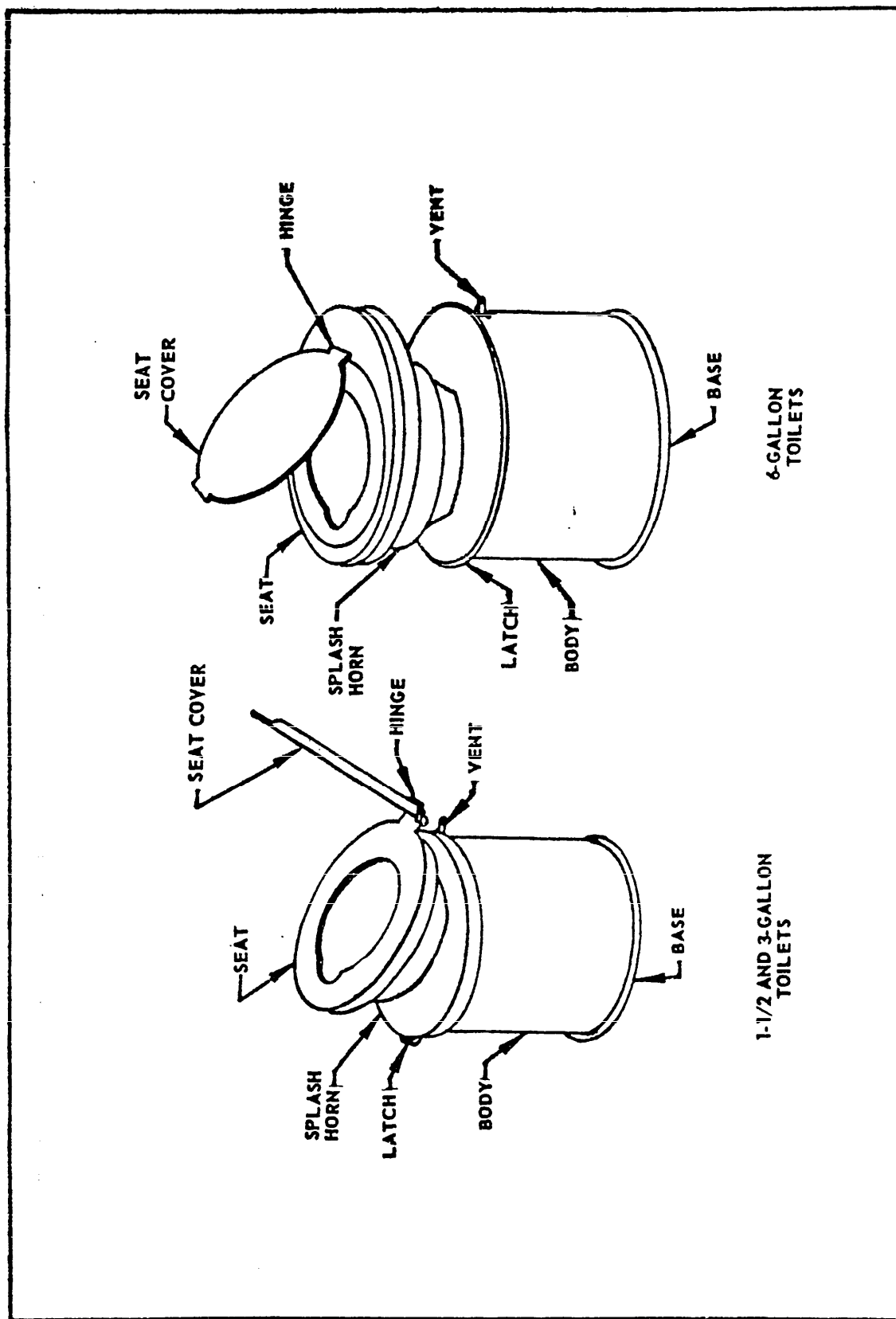


FIGURE 4. 1½-, 3-, and 6-gallon toilets.

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with one coat of pre-treatment coating MIL-C-8514, finished with one coat of zinc chromate primer conforming to Specification MIL-P-8585, and two coats of white enamel conforming to Specification MIL-E-7729, type II or III, color No. 17875, Standard FED-STD-595.

3.4 Identification. Toilets and parts shall be marked for identification in accordance with Standard MIL-STD-130.

3.5 Workmanship. The toilets shall be free from any defects that might affect appearance, proper functioning.

3.6 Interchangeability. All parts having the same manufacturer's part number shall be functionally and dimensionally interchangeable. The drawing number requirements of Specification MIL-D-70327 shall govern changes in the manufacturer's part number.

4. QUALITY ASSURANCE PROVISIONS

4.1 The supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified, the supplier may utilize his own or any other inspection facilities and services acceptable to the Government. Inspection records of the examination and tests shall be kept complete and available to the Government as specified in the contract or order. 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.

4.2 Sampling for lot acceptance.

4.2.1 All toilets of the same size offered for delivery at one time shall be considered a lot for purposes of inspection.

4.2.2 Sampling for examination. A random sample of toilets shall be selected from each lot offered to the Government in accordance with MIL-STD-105 at inspection level II. The Acceptable Quality level shall be 2.5 percent defective.

4.2.3 Sampling for test. A random sample of toilets shall be selected from each lot offered to the Government in accordance with MIL-STD-105 Inspection Level L-8.

4.3 Examination. Each of the sample toilets selected in accordance with paragraph 4.2.2 shall be examined to verify compliance with this specification and strict conformance with the pertinent figures. Any toilet containing one or more defects shall be rejected and if the number of defective toilets in any sample exceeds the acceptance number for the sample, the lots represented by the sample shall be rejected.

4.4 Test procedures. Each of the sample toilets selected in accordance with 4.2.3 shall be tested for leakage, capacity and strength. Failure of any sample to pass these tests shall be cause for rejecting the lot. Possible test failures are defined as follows:

- (a) Failure of the inner bucket to contain the capacity as specified in paragraph 3.3.2 by first filling it to the bottom of horn, and then filling it to the brim.
- (b) Any leakage of the inner bucket when filled to the brim and allowed to stand for one hour.
- (c) Failure of the toilet assembly to withstand load limits of 600 pounds applied vertically and evenly to the seat cover in a closed position. Also a vertical load of 400 pounds applied evenly over the entire seat with the toilet seat cover open.

4.5 Inspection of preparation for delivery. The preservation, packaging, packing and marking shall be examined and tested to determine conformance with the requirements of Section 5 of this specification, and as required by specifications referenced therein. Except as required by referenced specifications inspection lots and sampling shall be in accordance with MIL-STD-105 at inspection level L-8 and an AQL of 4.0 percent defective.

5. PREPARATION FOR DELIVERY

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

5.1.1 Level A. Each toilet shall be packaged Method III, in accordance with the requirements of specification MIL-P-116, in unit container conforming to specification PPP-B-665 or PPP-B-676.

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5.1.2 Level C. Toilets shall be packaged in a way which will afford adequate protection against deterioration and physical damage during shipment from supply source to the first receiving activity for immediate use.

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

5.2.1 Level A. Toilets packaged as specified in 5.1.1 shall be packed in overseas type exterior shipping containers conforming to Specifications PPP-B-591, PPP-B-601, PPP-B-621 or PPP-B-636 (type I or II, class 2). Plywood, when used, shall be Type I or II, Class 2 of Specification NN-P-515. Strapping and closures shall be in accordance with the applicable container specification or appendix thereto. Containers shall be of uniform shape and size, be of minimum cube and tare consistent with the protection required and shall contain identical quantities. Containers conforming to Specifications PPP-B-585, PPP-B-591, or PPP-B-621 shall be provided with a case liner conforming to Specification MIL-L-10547 and sealed in accordance with the appendix thereto. The case liner will not be required for PPP-B-636 provided the center and edge seams and the manufacturer's joints are sealed with tape conforming to Specification PPP-T-60, type I or II, Class 1.

5.2.2 Level B. Toilets packaged as specified in 5.1.1 shall be packed in domestic type exterior shipping containers conforming to Specification PPP-B-591, PPP-B-601, PPP-B-621 or PPP-B-636. Containers shall be of uniform shape and size, be of minimum cube and tare consistent with the protection required and shall contain identical quantities. Containers shall be closed and strapped in accordance with the applicable container specification or appendix thereto.

5.2.3 Level C. Toilets shall be packaged in a way which will afford protection against damage during shipment from the supply source to the first receiving activity for immediate use. Con-

tainers shall meet consolidated freight classification rules or regulations of other common carriers as applicable to the mode of transportation.

5.3 Physical protection. Cushioning, blocking and bracing shall be in accordance with JAN-P-100 except that for domestic shipment, waterproofing requirements for cushioning materials and containers shall be waived. Drop tests of JAN-P-100 shall be waived when packaging and packing of the item are for immediate use or when drop tests of MIL-P-116 are applicable.

5.4 Marking. Interior and exterior containers shall be marked in accordance with the requirements of Standard MIL-STD-129. The shipment marking nomenclature shall be as follows: "Toilet, Aircraft, Chemical, Size * ." (*Enter appropriate size).

6. NOTES

6.1 Intended use. This toilet is intended for use in aircraft.

6.2 Ordering data. Procurement documents shall specify the following:

- (a) Title, number, and date of this specification.
- (b) Size of toilet required.
- (c) List of interchangeable components and assemblies.
- (d) Selection of applicable levels of preservation and packaging, and packing.

Notice. When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

Custodians:

Navy—Wep
Army—TC
Air Force—MOA

Preparing activity:

Air Force—MOA