

Internal Use Only

INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS

STANDARD FOR

DETACHABLE LIQUID WASTEHOLDING TANKS

IAPMO TS 23-97^{e1}

1. PURPOSE

- 1.1** The purpose of this Standard is to establish an acceptable quality standard for detachable liquid wasteholding tanks for use with recreational vehicles. Its purpose is also to serve as a guide for producers, distributors, designers, engineers, installers, inspectors, enforcement agencies and users; to promote understanding regarding materials, manufacture and installation; and to provide for identifying of tanks that conform to this Standard.

2. SCOPE

- 2.1** This Standard covers materials, components, proper design, operation and general methods of construction in addition to general method of use. Markings and identification are also indicated.
- 2.2** The detachable liquid wasteholding tanks, covered by this Standard are designed specifically to be used in a recreational vehicle having a sink as its only plumbing fixture.

3. DEFINITIONS

- 3.1** **Liquid Waste.** The discharge from any fixture, appliance or appurtenance which does not contain body waste.

4. DESIGN AND CONSTRUCTION

- 4.1** The connecting pipe or tube between the sink strainer and the inlet to the wasteholding tank shall be of a listed flexible material with a minimum five/eighths (5/8) in. I.D.
- 4.1.1** The inlet fitting shall be designed to provide a water and gas tight connection to the drain hose to which it will be connected.
- 4.2** The trap for the tank shall be formed by the extension of the inlet fitting into the tank. The fitting shall extend into the tank at least 90% at the deepest portion of the tank.

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- 4.3** A matching cap or plug shall be attached to the tank to seal the inlet fitting for use during storage or transportation of the tank.
- 4.4** A minimum three/sixteenths (3/16) in. diameter threaded vent opening shall be provided at the highest portion of the tank area.
 - 4.4.1** A matching threaded fitting with a four (4) ft. length of clear plastic three/sixteenths (3/16) In. I.D. vent tubing shall be provided.
 - 4.4.1.1** An attached hook for hanging the vent shall be attached to the vent end.
- 4.5** The tank design shall be such that the inlet fitting cannot be connected unless the trap is installed.
- 4.6** The tank design shall permit emptying only through the inlet or vent openings.
- 4.7** Handles, carrying devices or hand-holds shall be of such design and size as to be capable of supporting the tank plus its full content weight.
- 4.8** Tanks shall have smooth interior surfaces, free of fouling areas, and have contoured bottom and vertical corners with not less than a one-quarter (1/4) in. radius.
- 4.9** Tanks shall be constructed of galvanized iron, or sheet steel with a bituminous or equal non-corrosive protective interior coating; or stainless steel, reinforced fiberglass, approved plastics, or similar approved type materials not subject to corrosion.

5. MARKING, IDENTIFICATION AND INSTRUCTIONS

- 5.1** All tanks shall be permanently identified with the following:
 - (a) Manufacturer's name or registered trademark;
 - (b) Model number; and
 - (c) Instructions on proper use, including installation of the vent, trap, etc.

Adopted: 1975

Revised: 1985, 1997

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