

# Australian Standard 2437—1981

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## FLUSHER/SANITIZERS FOR BED PANS AND URINE BOTTLES

[Title allocated by Defence Cataloguing Authority: SANITIZER,  
HOSPITAL UTENSIL (Flusher type, bed pan and urinal)]

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**STANDARDS ASSOCIATION OF AUSTRALIA**  
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THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL ORGANIZATIONS and departments were officially represented on the committee entrusted with the preparation of this standard:

Allied Building Trades Federation of Australia  
Australian Medical Association  
Confederation of Australian Industry  
Department of Housing and Construction  
Department of Health, Queensland  
Department of Industrial Relations, N.S.W.  
Departments of Labour and Industry  
Department of Public Health, Western Australia  
Departments of Public Works  
Health Commission of New South Wales  
Health Commission of Victoria  
Hospitals Department, South Australia  
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Royal College of Pathologists of Australia  
Sterilization and Disinfection Society of Victoria  
Sterilizer Manufacturers Association of Australia  
Sterilizing Research and Advisory Council of Australia  
Subcontractors Association of New South Wales

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**AUSTRALIAN STANDARD**

**FLUSHER/SANITIZERS FOR  
BED PANS AND  
URINE BOTTLES**

**AS 2437—1981**

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## PREFACE

This standard was prepared by the Association's Committee on Sterilizing Equipment. It applies to flusher/sanitizers designed to accept one adult bed pan generally in accordance with the BS 2588 (Perfection) type or one child's bed pan, or one standard commode pan, or not more than two urine bottles. This standard does not apply to the type of bed pans known as 'slipper pans'.

In the preparation of this standard, account was taken of BS 2745, Bed Pan and Urine Bottle Washers.

Special attention has been given to considerations affecting handling by the nursing staff, cleaning and ease of maintenance.

It is intended that if the purchaser has special requirements for the retaining equipment, such as special shaped holders for other types of bed pans or urine bottles, these may easily replace the standard holders.

Information is included on the design, operation, construction and testing of the flusher/sanitizers.

Other Australian standards dealing with sterilizing and sanitizing equipment are as follows:

- AS 1410 Pre-vacuum Pressure Steam Sterilizers (with Mechanical Air Removal)
- AS 1714 Ethylene Oxide Sterilizers (Using Ethylene Oxide/Dichlorodifluoromethane 12%/88% m/m Sterilizing Gas Mixture)
- AS 1862 Aeration Cabinets (For Use with Ethylene Oxide Sterilizers)
- AS 2182 Portable Electrically Heated Steam Sterilizers (Downward Displacement Pressure Steam Type) (under revision—DR 80198)
- AS 2192 Horizontal Sterilizers (Downward Displacement Pressure Steam Type)

Standards are in course of preparation for drying cabinets, dry heat sterilizers (hot air type), washer disinfectors for respiratory apparatus, washer sanitizers for hospital utensils, and ultrasonic cleaners.

This standard may require reference to the following Australian and British standards:

- AS 1135 SAA Non-ferrous Pressure Piping Code
- AS 1192 Electroplated Coatings of Nickel and Chromium
- AS 1210 SAA Unfired Pressure Vessels Code
- AS 1271 Valves, Water Gauges and Other Fittings for Boilers and Unfired Pressure Vessels
- AS 1449 Stainless and Heat-resisting Steel Plate, Sheet and Strip (Coils and Cut Lengths)
- AS 1566 Copper and Copper Alloy Plate, Rolled Bar, Sheet, Strip and Foil for General Engineering Purposes
- AS 1589 Copper and Copper Based Alloy Fittings for Use in Sanitary Plumbing Installations
- AS 1650 Galvanized Coatings
- AS 3142 Approval and Test Specification for Electric Water Heaters
- AS CB18 SAA Pressure Piping Code  
Part 1—Ferrous Piping
- AS C100 Approval and Test Specification for Definitions and General Requirements for Electrical Materials and Equipment
- BS 1041 Code for Temperature Measurement
- BS 2588 Bed Pans of Perfection Type (Adult Size)
- BS 2745 Bed Pan and Urine Bottle Washers

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STANDARDS ASSOCIATION OF AUSTRALIA

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**Australian Standard**

**for**

**FLUSHER/SANITIZERS FOR BED PANS AND URINE BOTTLES**

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**SECTION 1. SCOPE AND GENERAL**

**1.1 SCOPE.** This standard specifies requirements for flusher/sanitizers for use in hospitals to sanitize bed pans or urine bottles.

**NOTES:**

1. The flusher/sanitizer specified in this standard is not a sterilizer.
2. The flusher/sanitizer is not intended for any hospital utensils other than bed pans or urine bottles.
3. The flusher/sanitizer is not intended to be subjected to pressures above atmospheric pressure.
4. Certain details need to be discussed with the manufacturer. Appendix A provides information in this regard.

**1.2 APPLICATION.** This standard applies to the design, manufacture and testing of the flusher/sanitizers described in Clause 1.1.

## SECTION 2. MATERIALS

**2.1 MATERIALS STANDARDS.** Unless otherwise specified, the materials used in the construction of the flusher/sanitizer shall comply with the appropriate Australian standard or equivalent.

NOTE: If it is desired to use materials other than those herein specified or if it is desired to use synthetic or plastics materials which have not previously been used for this purpose, details of the suitability of the materials for the purpose may be submitted to SAA Committee ME/3—Sterilizing Equipment, for determination as to their suitability. Full details, together with samples, if required, should be submitted with adequate supporting evidence.

**2.2 CHAMBER, DOOR AND RETAINING EQUIPMENT.** Materials for chamber, door and retaining equipment shall be one of the following:

- (a) Stainless steel with corrosion-resistant properties not less than AS 1449/301 or AS 1449/302.
- (b) Copper-nickel alloy, with corrosion-resistant properties not less than AS 1566.
- (c) Plastics or other synthetic materials suitable for the application.

**2.3 EXTERNAL PANELS.** Materials for external panels, where visible, shall be either—

- (a) stainless steel; or
- (b) plastics or other synthetic material suitable for the application.

Where panels are built in or otherwise not visible, materials shall be—

- (i) stainless steel; or
- (ii) zinc coated steel; or
- (iii) aluminium; or
- (iv) plastics or other synthetic material suitable for the application.

**2.4 FRAMEWORK.** The material for the framework of flusher/sanitizers shall be as follows:

- (a) *Frame*—stainless steel, or hot-dip galvanized carbon steel.
- (b) *Adjustable brackets, feet or levelling bolts*—stainless steel.

**2.5 NOZZLES.** Hot water nozzles shall be constructed from stainless steel, copper-nickel alloy or brass. Brass nozzles shall be chromium plated in compliance with AS 1192.

**2.6 WATER STORAGE TANKS.** Material for hot and cold water storage tanks shall be selected from one of the following and shall be of a type or grade suitable for the application:

- (a) Copper-nickel alloy.
- (b) Copper.
- (c) Plastics or other synthetic material.
- (d) Stainless steel.

**2.7 VALVES.** The material for valves shall be suitable for the temperature and pressure of operation. Where non-ferrous metallic valves are fitted, they shall be in accordance with AS 1271.

**2.8 PIPEWORK AND PIPE FITTINGS.** Pipework and pipe fittings shall be of copper, or stainless steel, or a plastics or other synthetic material appropriate for the temperature and pressure of operation.

**2.9 DOOR GASKET.** Where fitted, the door gasket shall be manufactured from a material capable of sealing at the temperature of operation.

**2.10 THICKNESS OF MATERIAL.** Where stainless steel or copper-nickel sheet is used for the chamber and the door, the thickness shall be not less than 0.9 mm.