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Sanitary plumbing products

Part 2: Flushing devices and cistern inlet and outlet valves



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The following are represented on Committee WS-003:

- Association of Accredited Certification Bodies
 - Australian Building Codes Board
 - Australian Chamber of Commerce and Industry
 - CSIRO
 - Department of the Environment, Australian Government
 - Plumbing Products Industry Group
 - Testing Interests (Australia)
-

This Standard was issued in draft form for comment as DR AS 1172.2.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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Australian Standard®

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PREFACE

A1 | This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee WS-003, Sanitary Plumbing Fixtures, to supersede AS 1172.2—1999, *Water closet (WC) pans of 6/3 L capacity*, Part 2: *Cisterns*; ATS 5200.004—2005, *Technical Specification for plumbing and drainage products*, Part 004: *Urinal flushing cisterns*; ATS 5200.016—2010, *Technical Specification for plumbing and drainage products*, Part 016: *Cistern inlet valves*; ATS 5200.017—2005, *Technical Specification for plumbing and drainage products*, Part 017: *Cistern outlet valves*; ATS 5200.020—2004, *Technical Specification for plumbing and drainage products*, Part 020: *Flushing valves for water closets and urinals—For use with mains supply*; and ATS 5200.021—2004, *Technical Specification for plumbing and drainage products*, Part 021: *Flushing valves for water closets and urinals—For use with break tank supply*.

This Standard incorporates Amendment No. 1 (June 2018). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this Standard is to specify the requirements for flushing devices and their vital components, as follows:

- (a) Flushing cisterns for pans and urinals.
- (b) Flushing valves for use with mains supply.
- (c) Flushing valves for use with break tank supply.
- (d) Cistern inlet valves.
- (e) Cistern outlet valves.

This revision includes—

- (i) amended procedures to meet the requirements of the Water Efficiency Labelling and Standards (WELS) scheme for greater consistency of test results across recognized testing laboratories; and
- (ii) the requirements and test procedures previously contained in ATS 5200.016—2010, ATS 5200.017—2005, ATS 5200.020—2004 and ATS 5200.021—2004.

NOTE: ATS 5200.030—2012, *Technical Specification for plumbing and drainage products*, Part 030: *Solenoid valves*, is not included in this revision.

The term ‘normative’ has been used in this Standard to define the application of the appendix to which it applies. A ‘normative’ appendix is an integral part of a Standard.

Statements expressed in mandatory terms in notes to tables and figures are deemed to be requirements of this Standard.

The Committee identified that additional testing requirements (e.g. reduced-flush testing) may be considered for inclusion in a future edition of the Standard when more data are available.

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STANDARDS AUSTRALIA

Australian Standard
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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for—

- (a) flushing cisterns that may be either single-flush or dual-flush with flushing volumes as marked;
- (b) flushing valves for mains supply that incorporate air gap pipe disconnections that operate manually or by sensor; and
- (c) flushing valves for use with a break tank supply;

which are intended for use with urinals and water closet pans of all types.

This Standard also specifies requirements for cistern inlet valves and cistern outlet valves.

1.2 APPLICATION

Each type of flushing device or valve shall comply with the relevant section as follows:

- (a) Flushing cisterns Section 2.
- (b) Flushing valves for use with mains supply Section 3.
- (c) Flushing valves for use with a break tank supply Section 4.
- (d) Cistern inlet valves Section 5.
- (e) Cistern outlet valves Section 6.

A1 | 1.3 DEMONSTRATION OF CONFORMANCE

Demonstration of conformance with this Standard shall be in accordance with Appendix A.

1.4 NORMATIVE REFERENCES

The following are the normative documents referenced in this Standard:

NOTE: Documents referenced for informative purposes are listed in the Bibliography.

A1	AS	
	1172	Sanitary plumbing products
	1172.1	Part 1: Water closet pans
	1432	Copper tubes for plumbing, gasfitting and drainage applications
	1565	Copper and copper alloys—Ingots and castings
	1572	Copper and copper alloys—Seamless tubes for engineering purposes
	1976	Vitreous china used in sanitary appliances
	2136	Method for detecting the susceptibility of copper and its alloys to stress corrosion cracking using the mercurous nitrate test