

Australian Standard<sup>®</sup>

**Valves primarily for use in heated water  
systems**

**Part 2: Control valves**



This Australian Standard® was prepared by Committee WS-026, Valves Primarily for Use in Warm and Hot Water Systems. It was approved on behalf of the Council of Standards Australia on 12 August 2005.

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  - Building Research Association of New Zealand
  - Business New Zealand
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- 

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## **Valves primarily for use in heated water systems**

### **Part 2: Control valves**

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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee WS-026, Valves Primarily for Use in Warm and Hot Water Systems, to supersede AS 1357.2—1998, *Valves primarily for use in warm and hot water systems Part 2: Control valves*.

*This Standard incorporates Amendment No. 1 (September 2006), Amendment No. 2 (May 2009). 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 provide manufacturers with design, materials and performance requirements for control valves that give reasonable protection to users against exposure to high or excessive fluctuations in water temperature.

The range of control valves in this Standard includes types to limit maximum water inlet pressures, provide vacuum relief, prevent excessive water storage temperature (in solar water heaters) and reduce the risk of scalding temperatures at delivery points.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

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SECTION 1 SCOPE AND GENERAL

### 1.1 SCOPE

This Standard sets out requirements for the design, construction, testing and performance of the following types of water valves and devices:

- (a) Vacuum relief valves.
- (b) Thermosiphon arrestor valves.
- (c) Primary temperature control valve.
- (d) Inlet pressure control valves.
- (e) Isolating valves.

The valves and devices specified in this Standard are primarily intended for use in a heated water service (see AS/NZS 3500.4).

### 1.2 APPLICATION

Compliance with this Standard shall be demonstrated in accordance with Appendix A.

### 1.3 REFERENCED DOCUMENTS

The documents referred to in this Standard are listed in Appendix B.

### 1.4 DEFINITIONS

For the purpose of this Standard, the definitions given in AS/NZS 3500.0 and those below apply.

#### 1.4.1 Distortion

That which is obvious to the eye without resorting to dimensional checking.

#### 1.4.2 Inlet pressure control valve

A valve designed to control the maximum supply pressure of the cold water to the inlet of a water heater.

NOTE: Typically, it may be a pressure-reducing valve, pressure-limiting valve or pressure ratio valve.

#### 1.4.3 Manufacturer's recommended commissioning temperature

The temperature to which the tempering valve is set and checked following its installation within the limits specified by the manufacturer.