Australian Standard™

Valves primarily for use in warm and hot water systems

Part 2: Control valves

This Australian Standard was prepared by Committee WS/26, Valves Primarily for Use in Warm and Hot Water Systems. It was approved on behalf of the Council of Standards Australia on 24 July 1998 and published on 5 October 1998.

The following interests are represented on Committee WS/26:

AUSTAP

Consumers Federation of Australia

Gas Appliance Manufacturers Association of Australia

Housing Industry Association

Institute of Hospital Engineering Australia

Master Plumbers and Mechanical Contractors Association of N.S.W.

Metal Trades Industry Association of Australia

New Zealand Engineering Federation

New Zealand Society of Master Plumbers and Gasfitters

N.S.W. Health Department

South Australian Health Commission

Water Corporation Western Australia

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee WS/26, Valves Primarily for Use in Warm and Hot Water Systems, to supersede AS 1357.2–1992, *Water supply—Valves for use with unvented water heaters* Part 2: *Control valves*.

This Standard is the result of a consensus among the representatives on the Joint Committee that it be produced as an Australian 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) Tempering valves.

(d) Inlet pressure control valves.

(e) End-of-line temperature-actuated devices.

(f) Isolating valves.

The valves and devices specified in this Standard are primarily intended for use in warm and hot water systems which are required to operate at—

(i) continuous operating temperature not exceeding 85°C;

(ii) temperatures under emergency conditions, not exceeding 99°C; and

(iii) continuous working pressure not exceeding 1400 kPa.

NOTE: For valves used with water heaters which are intended to operate at temperatures above 99°C (e.g. hot water boilers), see AS 1271.

1.2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS

1271 Safety valves, other valves, liquid level gauges and other fittings for boilers and unfired pressure vessels

1349 Bourdon tube pressure and vacuum gauges

1357 Water supply—Valves primarily for use in warm and hot water systems

1357.1 Part 1: Protection valves

1432 Copper tubes for plumbing, gasfitting and drainage applications

1718 Water supply—Copper alloy screw-down pattern taps—Specified by dimensions

1722 Pipe threads of Whitworth form

1722.1 Part 1: Sealing pipe threads

1722.2 Part 2: Fastening pipe threads

2345 Dezincification resistance of copper alloys

2837 Wrought alloy steels—stainless steel bars and semi-finished products

3688 Water supply—Copper and copper alloy body compression and capillary fittings and threaded-end connectors