

AS 1357.2—1998

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

---

**Review of Australian Standards.** To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

---

*This Standard was issued in draft form for comment as DR 95285.*

AS 1357.2—1998

Australian Standard™

---

**Valves primarily for use in warm  
and hot water systems**

**Part 2: Control valves**

---

Originated as part of AS B271—1968.  
Previous edition AS 1357.2—1992.  
Third edition 1998.

Published by Standards Australia  
(Standards Association of Australia)  
1 The Crescent, Homebush, NSW 2140

ISBN 0 7337 2184 2

## 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.

## © Copyright — STANDARDS AUSTRALIA

Users of Standards are reminded that copyright subsists in all Standards Australia publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia. Permission may be conditional on an appropriate royalty payment. Requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia.

Standards Australia will permit up to 10 percent of the technical content pages of a Standard to be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia.

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia at any time.

## CONTENTS

	<i>Page</i>
<b>SECTION 1 SCOPE AND GENERAL</b>	
1.1 SCOPE .....	6
1.2 REFERENCED DOCUMENTS .....	6
1.3 DEFINITIONS .....	7
1.4 INSTRUMENTATION .....	7
1.5 TOLERANCES .....	8
1.6 MARKING .....	8
<b>SECTION 2 MATERIALS</b>	
2.1 GENERAL .....	9
2.2 COPPER ALLOY MATERIALS .....	9
2.3 DIAPHRAGM MATERIALS AND VALVE SEATS .....	9
2.4 SPRING MATERIALS .....	9
2.5 CONTAMINATION OF WATER .....	9
<b>SECTION 3 GENERAL DESIGN AND CONSTRUCTION</b>	
3.1 GENERAL .....	10
3.2 STRENGTH .....	10
3.3 END CONNECTIONS .....	10
3.4 COMPONENTS AND VALVE SEATS .....	10
3.5 REPAIR .....	10
3.6 FLOW MARKING .....	10
3.7 INSTRUCTIONS .....	10
<b>SECTION 4 VACUUM RELIEF VALVES</b>	
4.1 GENERAL .....	11
4.2 DESIGN .....	11
4.3 INLET AND OUTLET .....	11
4.4 PROTECTION AGAINST BLOCKAGE .....	11
4.5 FLOW PASSAGES .....	11
4.6 OPENING PRESSURE TEST .....	11
4.7 CLOSING PRESSURE TEST .....	11
4.8 AIR-PASSING CAPACITY TEST .....	11
4.9 RESISTANCE TO HOT WATER .....	11
4.10 MARKING .....	11
<b>SECTION 5 THERMOSIPHON ARRESTOR VALVES</b>	
5.1 GENERAL .....	12
5.2 INLET, OUTLET AND SUPPLY CONNECTIONS .....	12
5.3 FLOW AREA .....	12
5.4 FLOW PASSAGE .....	12
5.5 CLOSING TEMPERATURE .....	12
5.6 VALVE OPERATING CHARACTERISTICS .....	12
5.7 ENDURANCE .....	12
5.8 TEMPERATURE ENDURANCE .....	12
5.9 MARKING .....	12

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- Looking for additional Standards? Visit Intertek Inform Infostore
  - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-