



Water supply—Valves for the control of heated water supply temperatures

Part 4: Thermostatically controlled taps for the control of heated water supply temperatures



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 9 May 2014.

This Standard was published on 11 June 2014.

The following are represented on Committee WS-026:

- Australian Chamber of Commerce and Industry
 - Australian Industry Group
 - Building Officials Institute of New Zealand
 - Department of Health, South Australia
 - Employers and Manufacturers Association
 - Gas Appliance Manufacturers Association of Australia
 - Institute of Hospital Engineering Australia
 - Master Plumbers and Mechanical Services Association of Australia
 - Master Plumbers Association of NSW
 - Master Plumbers, Gasfitters and Drainlayers, New Zealand
 - NSW Ministry of Health
 - Plumbing Products Industry Group
-

This Standard was issued in draft form for comment as DR AS 4032.4.

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.

Keeping Standards up-to-date

Australian Standards® are living documents that reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued.

Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments that may have been published since the Standard was published.

Detailed information about Australian Standards, drafts, amendments and new projects can be found by visiting www.standards.org.au

Standards Australia welcomes suggestions for improvements, and encourages readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at mail@standards.org.au, or write to Standards Australia, GPO Box 476, Sydney, NSW 2001.

Australian Standard[®]

**Water supply—Valves for the control of
heated water supply temperatures**

**Part 4: Thermostatically controlled taps
for the control of heated water supply
temperatures**

First published as AS 4032.4:2014.

COPYRIGHT

© Standards Australia Limited

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968.

Published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001, Australia

ISBN 978 1 74342 728 6

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.

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

This Standard includes provision for electronically controlled valves and requirements for heated water shut-off performance.

This is a new Standard which forms Part 4 of a suite of Standards that cover products for the control of heated water temperatures, as follows:

AS

- 4032 Water supply—Valves for the control of heated water supply temperatures
- 4032.1 Part 1: Thermostatic mixing valves—Materials design and performance requirements
- 4032.2 Part 2: Tempering valves and end-of-line temperature-actuated devices
- 4032.3 Part 3: Requirements for field testing, maintenance or replacement of thermostatic mixing valves, tempering valves and end-of-line temperature control devices
- 4032.4 Part 4: Thermostatically controlled taps for the control of heated water supply temperatures

The objective of this Standard is to provide manufacturers, system designers, relevant authorities and others with performance requirements for thermostatic mixing taps, which provide a level of protection to users against exposure to high or excessive fluctuations in mixed water temperatures caused by variations, including shut-off, in the cold or heated water supply.

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.

This Standard necessarily deals with existing conditions, but is not intended to discourage innovation or to exclude material, equipment and methods that may be developed in the future. Revisions will be made from time to time in view of such developments, and amendments to this edition will be made only when absolutely necessary.

CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE.....	5
1.2 APPLICATION	5
1.3 NORMATIVE DOCUMENTS	5
1.4 DEFINITIONS.....	7
1.5 PRODUCT DATA	7
1.6 MARKING	8
1.7 INSTRUCTIONS.....	8
SECTION 2 MATERIALS	
2.1 SCOPE OF SECTION	9
2.2 CORROSION-RESISTANT METALLIC MATERIALS	9
2.3 COPPER.....	9
2.4 COPPER ALLOY	9
2.5 DEZINCIFICATION-RESISTANT (DR) COPPER ALLOY	9
2.6 STAINLESS STEEL.....	9
2.7 PLASTICS MATERIALS.....	10
2.8 OTHER COMPONENT MATERIALS.....	10
SECTION 3 DESIGN AND MANUFACTURE	
3.1 GENERAL.....	11
3.2 END CONNECTORS.....	11
3.3 LIMITATION OF TEMPERATURE ADJUSTMENT	11
3.4 ELECTRONIC VALVES	11
3.5 CROSS-FLOW PREVENTION DEVICES AND STRAINERS	11
3.6 ISOLATING VALVE.....	11
3.7 WATER SHUT-OFF DEVICE	11
SECTION 4 PERFORMANCE REQUIREMENTS	
4.1 GENERAL.....	12
4.2 PRODUCTS IN CONTACT WITH DRINKING WATER	12
4.3 WATERTIGHTNESS AT AMBIENT TEMPERATURE	12
4.4 THERMAL SHUT-OFF	12
4.5 MIXED WATER TEMPERATURE OVERSHOOT ON STARTING FROM AMBIENT	13
4.6 TEMPERATURE STABILITY OF MIXED WATER	13
4.7 WATERTIGHTNESS AT OPERATING TEMPERATURE.....	13
4.8 ENDURANCE OF CONTROL SYSTEM AND OPERATING MECHANISM	13
4.9 SEQUENCE OF PERFORMANCE TESTS.....	13
4.10 PLASTICS MATERIALS USED FOR PLASTICS-BODIED TAPS.....	14
4.11 SURFACE-MOUNTING STRENGTH TEST FOR TAPS	14
4.12 NOMINAL FLOW RATE	14
4.13 TORQUE OF FABRICATED ASSEMBLIES	14
4.14 TORQUE OF HANDLE AND HANDLE ATTACHMENT	14
4.15 TORQUE OF OPERATING MECHANISM	14
4.16 RESISTANCE OF HANDLE TO REMOVAL	14

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](#)
-