

Australian Standard™

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

Part 3: Requirements for field-testing, maintenance or replacement of thermostatic mixing valves, tempering valves and end-of-line temperature control devices

This Australian Standard was prepared by Committee WS-026, Valves Primarily for Use in Heated Water Systems. It was approved on behalf of the Council of Standards Australia on 26 August 2003 and published on 20 February 2004.

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Australian Industry Group
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Department of Human Services (South Australia)
Gas Appliance Manufacturers Association
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This Standard was issued in draft form for comment as DR 03186.

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First published as AS 4032.3—2004.

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Published by Standards Australia International Ltd
GPO Box 5420, Sydney, NSW 2001, Australia

ISBN 0 7337 5505 4

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee WS-026, Valves Primarily for Use in Heated Water Systems in response to community concerns following a number of incidents.

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 network utility operators and service personnel with specified requirements for the field-testing and maintenance of the devices specified in AS 4032.1 and AS 4032.2, the frequency with which the maintenance is to be conducted together with the frequency of replacement of the temperature operating components.

This Standard is the result of requests from both industry and Authorities for specified requirements which should ensure that the performance of installed devices is maintained within requirements specified in AS 4032.1 and AS 4032.2, and in so doing minimise operational failures.

AS 4032 is a suite of Standards that covers valves for the control of hot water temperatures. The suite is comprised of the following:

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 activated 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. (This Standard)

This Standard necessarily deals with existing conditions, but is not intended to discourage innovation or to exclude materials, equipment and methods, which 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.

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FOREWORD

Attention is drawn to relevant statutory requirements with respect to the following:

- (a) The qualifications of persons permitted by law to field-test and maintain fittings specified in AS 4032.1 and AS 4032.2.
- (b) The administrative procedures that are to be followed.
- (c) The authorization of materials, fittings and other components for connection to a water service.

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies minimum requirements for field-testing and maintenance/replacement of thermostatic mixing valves, tempering valves and end-of-line temperature-actuated devices.

1.2 APPLICATION

This Standard shall be read in conjunction with the manufacturer's published instructions.

NOTE: This Standard should also be read in conjunction with the requirements of the relevant regulators.

1.3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS/NZS

3500 Plumbing and drainage
3500.0 Part 0: Glossary of terms

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-activated devices

1.4 DEFINITIONS

For the purpose of this Standard the definitions given in AS/NZS 3500.0 and AS 4032.1 apply.

1.4.1 Field testing

Inspection and performance testing resulting in a report on requirements for ongoing maintenance and/or remedial work and/or replacement.

1.4.2 Maintenance

Work that is required to be carried out on a regular basis or as a result of a problem, to enable safe operation of the valve.