

Australian Standard[®]

**Meters for cold and heated drinking and
non-drinking water supplies**

Part 1: Technical requirements



This Australian Standard® was prepared by Committee WS-024, Meters for Cold Potable Water. It was approved on behalf of the Council of Standards Australia on 10 August 2010. This Standard was published on 30 September 2010.

The following are represented on Committee WS-024:

- Australian Industry Group
 - Australian Institute of Refrigeration, Air Conditioning and Heating
 - Brisbane City Council
 - National Measurement Institute
 - Plumbing Products Industry Group
 - Water Industry Alliance
 - Water Services Association of Australia
 - Water Services of Australia
 - Water Industry Alliance
-

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Part 1: Technical requirements

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PREFACE

This Standard was prepared by the Standards Australia Committee WS-024, Meters for Cold Potable Water, to supersede Australian Standards AS 3565.1—2004 *Meters for water supply—Cold water meters*, AS 3565.2—2004 *Meters for water supply—Combination meters*, AS 3565.3—2004 *Meters for water supply—Water meters with integral dual check valves* and AS 3565.5—2004 *Meters for water supply—Water meters with two integral single check valves*. This Standard has been harmonized with National Measurement Institute (NMI) R49 series, which specifies the metrological and technical requirements for pattern approval and verification of water meters to comply with the National Measurement Act 1960 (Cth).

The objective of this Standard is to provide technical specifications for water meters to meet the needs of the network utility operators, plumbing regulators, manufacturers and other stakeholders. The objective of this revision is to include essential requirements to maintain progress with technology in the water meter industry.

Requirements for non-metallic bodied meters, heated water meters and non-drinking water meters have been included to complement cold drinking water meters.

Statements expressed in mandatory terms in notes to tables are deemed to be requirements of this Standard.

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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STANDARDS AUSTRALIA

Australian Standard**Meters for cold and heated drinking and non-drinking water supplies****Part 1: Technical requirements**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for water meters used to meter the actual volume of cold and heated drinking and non-drinking water flowing through a fully charged closed conduit, other than applications covered by ATS 4747 series, and additional to those specified in NMI R 49-1.

NOTES:

- 1 Means for demonstrating compliance with this Standard is given in Appendix A.
- 2 Purchasing guidelines are given in Appendix B.

1.2 NORMATIVE REFERENCES

The following are the normative documents referred to in this Standard:

NOTE: Documents referenced for informative purposes are listed in the Bibliography.

AS

- 1722 Pipe threads of Whitworth form
1722.2 Part 2: Fastening pipe threads
2345 Dezincification resistance of copper alloys
2700 Colour Standards for general purposes
4087 Metallic flanges for waterworks purposes

AS/NZS

- 2845 Water supply—Backflow prevention devices
2845.1 Part 1: Materials, design and performance requirements
3500 Plumbing and drainage
3500.0 Part 0: Glossary of terms
4020 Testing of products for use in contact with drinking water

ISO

- 4064 Measurement of water flow in fully charged closed conduits—Meters for cold portable water and hot water
4064.1 Part 1: Specifications

ADWG Australian Drinking Water Guidelines

ATS Australian Technical Specification
4747 Meters for non-urban water supply (all parts)

ISO

- 4892 Plastics—Methods of exposure to laboratory light sources
4892.1 Part 1: General guidance
4892.3 Part 3: Fluorescent UV lamps