Australian Standard™

Meters for water supply

Part 1: Cold water meters

STANDARDS AUSTRALIA

This Australian Standard was prepared by Committee WS-024, Meters for Cold Drinking Water. It was approved on behalf of the Council of Standards Australia on 6 August 2003 and published on 14 January 2004.

The following are represented on Committee WS-024:

Australian Chamber of Commerce and Industry

Australian Electrical and Electronic Manufacturers Association

Australian Industry Group

Australian Institute of Refrigeration Air Conditioning and Heating

National Standards Commission

Water Services Association of Australia

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Part 1: Cold water meters

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PREFACE

This Standard was prepared by the Standards Australia Committee WS-024, Meters for Cold Drinking Water, to supersede AS 3565.1—1998.

The objective of this Standard is to provide manufacturers with requirements for volumetric chamber and turbine meters, which may be fitted with an electronic output device (EOD) to measure cold drinking water.

It should be noted that National Standards Commission, Standard NSC R 49 Part 1 specifies the metrological and technical requirements for pattern approval and verification of water meters to comply with the National Measurement Regulations.

This Standard has been revised to include essential requirements to maintain progress with technology in the water meter industry.

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 specifies requirements for water meters for use in cold water systems to measure the volume of cold drinking water or Type A or B recycled water using the following types of meters:

(a) Volumetric, not exceeding 63 kL/h.

(b) Multi-jet, not exceeding 63 kL/h.

(c) Single-jet meters, not exceeding 63 kL/h.

(d) Helical vane meters with permanent flow rates not exceeding 250 kL/h.

The operating conditions of the meters being—

(i) working temperature ranges of 0.3°C to 30°C; and

(ii) operating pressures not exceeding 1400 kPa.

This Standard is applicable to meters that are self-contained and capable of continuously determining, within the accuracy limits of the class, the volume of cold drinking water that has flowed through them, and that are continuously indicating the volume on a cumulative basis.

Means for demonstrating compliance with this Standard is given in Appendix A

NOTE: Purchasing guidelines are given in Appendix B.

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard.

AS	
1349	Bourdon tube pressure and vacuum gauges
1722	Pipe threads of Whitworth form
1722.2	Part 2: Fastening pipe threads
1939	Degrees of protection provided by enclosures for electrical equipment (IP Code)
2345	Dezincification resistance of copper alloys
3588	Methods of testing plastics and composite materials sanitary plumbing fixtures
3558.5	Method 5: Determination of degradation by ultraviolet light
4087	Metallic flanges for waterworks purposes

