

Australian Standard™

**Non-return valves for waterworks
purposes—Swing check and tilting disc**



S t a n d a r d s Australia

This Australian Standard was prepared by Committee WS-022, Valves for Water Supply Purposes. It was approved on behalf of the Council of Standards Australia on 21 December 2000 and published on 27 February 2001.

The following interests are represented on Committee WS-022:

Association of Consulting Engineers Australia
Australian Chamber of Commerce and Industry
Australian Chamber of Manufactures
Australian Valve Manufacturers Association
Department of Natural Resources (Qld)
Local Government New Zealand
Master Plumbers Australia
Metal Trades Industry Association of Australia
Society of Mechanical Engineers of Australasia
Water Services Association of Australia (WSAA)

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee WS-022, Valves for Water Supply Purposes.

The objective of this Standard is to provide design and performance requirements for manufacturers of non-return valves. It includes Class 16 and 35 valves for use in water and sewerage systems.

Attention is drawn to the proposed publication of SAA/SNZ Rul PL/2, *Rulings to the Joint Australian/New Zealand non-return valves for waterworks purposes*. Where rulings of public significance are issued, they will be available from Standards Australia through a subscription service. When rulings are included in an amendment, the specific ruling will be withdrawn at the time of publication of the amendment. Enquiries should be directed to Standards Australia.

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

Support and contribution is acknowledged from the Water Services Association of Australia (WSAA).

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

Non-return valves for waterworks purposes—
Swing check and tilting disc

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for the material, design and performance requirements for metal-bodied flanged non-return valves (swing check and tilting disc types) for use in water supply and pressure sewerage systems (swing check only) suitable for operation in both horizontal and vertical positions.

Classification includes Class 16 and 35 valves in the size range DN 30 to DN 750, inclusive, with the maximum temperature of the medium flowing through the valve not exceeding 60°C.

Means for demonstrating compliance with this Standard are given in Appendix A.

The products covered by this Standard include the following:

- (a) Non-return, free-acting valve.
- (b) Non-return valve with extended hinge pin suitable for position indication, micro-switches, counterweight lever arm and counterweight.
- (c) Non-return valve fitted with position indicator and/or counterweight lever arm and counterweight.
- (d) Counterweight lever and counterweight for retrofit to valve with extended hinge pins.
- (e) Non-return valve with resilient seated disc.

NOTE: See Appendix B for purchasing requirements that should be agreed upon at time of enquiry or order.

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS	
1199	Sampling procedures and tables for inspection by attributes
1565	Copper and copper alloys—Ingots and castings
1646	Elastomeric seals for waterworks purposes
1646.1	Part 1: General requirements
1646.2	Part 2: Material requirements for pipe joint seals used in water and wastewater applications—Specified by prescriptive formulation
1646.3	Part 3: Material requirements for pipe joint seals used in water and wastewater applications with the exception of natural rubber and polyisoprene compounds
1722	Pipe threads of Whitworth form
1722.1	Part 1: Sealing pipe threads
1830	Iron castings—Grey cast iron