AS 4795—2006

Australian Standard®

Butterfly valves for waterworks purposes

This Australian Standard® was prepared by Committee WS-022, Valves for Waterworks Purposes. It was approved on behalf of the Council of Standards Australia on 7 July 2006. This Standard was published on 30 August 2006.

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- Australian Chamber of Commerce and Industry
- Australian Industry Group
- Engineers Australia
- Master Plumbers Australia
- Plastics Industry Pipe Association of Australia
- Victorian Employers Chamber of Commerce
- Water Industry Alliance
- Water Services Association of Australia

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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 public comment period.

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PREFACE

This Standard was prepared by the Joints Standards Australia/Standards New Zealand Committee WS-022, Valves for Waterworks Purposes, to supersede AS 4795—2002.

The objective of this Standard is to provide material requirements and performance tests for butterfly valves used in water supply systems, including potable water, recycled water and screened wastewater systems, together with default compliance requirements for the use of manufacturers and certification bodies.

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) and manufacturers.

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 Classes 10, 16, 21 and 35 manually operated resilient-seated wafer, tapped lugged, and flanged butterfly valves for waterworks purposes, with a maximum operating temperature of 40°C.

This Standard covers the following:

(a) Manual actuators, gearboxes and standard spindle caps.

(b) Water supply applications that include drinking water and recycled water as well as screened wastewater.

(c) Valves of the following nominal sizes:

  (i) Seal-on-disc: DN 300 to DN 2000.

  (ii) Seal-in-body: DN 80 to DN 2000.

  (iii) Seal-on-body: DN 80 to DN 2000.

(d) The capability of the valves to be fitted with electric, hydraulic or pneumatic actuators and to be operated using portable actuators.

NOTE: Purchasing requirements that should be agreed upon at time of inquiry or order are given in Appendix B.

1.2 APPLICATION

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

1.3 REFERENCED DOCUMENTS

The documents referred to in this Standard are listed in Appendix C.

1.4 DEFINITIONS

1.4.1 Allowable operating pressure (AOP)

The allowable internal pressure, excluding surge, that a component can safely withstand in service.

1.4.2 Allowable site test pressure (ASTP)

The maximum internal hydrostatic pressure that can be applied on site to a component in a newly installed pipeline.

1.4.3 Bonded

Glued or adhered where it can be removed.

1.4.4 Bulkhead test

A test where the testing machine provides external restraint to make a watertight joint at each end of the valve.

