

Australian Standard<sup>®</sup>

**Butterfly valves for waterworks  
purposes**

**Part 2: Double flanged**

**STANDARDS**  
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 12 October 2011.

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The following are represented on Committee WS-022:

- Australian Chamber of Commerce
  - Australian Industry Group
  - Australian Stainless Steel Development Association
  - Australian Water Association
  - Engineers Australia
  - Institute of Instrumentation, Control and Automation Australia
  - Master Plumbers Australia
  - Plastics Industry Pipe Association of Australia
  - Plumbing Products Industry Group
  - Water Corporation Western Australia
  - Water Industry Alliance
  - Water New Zealand
  - 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 the public comment period.

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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, to supersede, in part, AS 4795—2006, *Butterfly valves for waterworks purposes*.

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 material requirements and performance tests for heavy-duty butterfly valves in isolation and throttling functions, typically used in transfer pipelines and pumping stations for services including potable water, recycled water and screened wastewater, together with default compliance requirements for the use of manufacturers and certification bodies.

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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## STANDARDS AUSTRALIA

**Australian Standard**  
**Butterfly valves for waterworks purposes**

**Part 2: Double flanged**

## SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard specifies requirements for PN 10, PN 16, PN 21 and PN 35 manually operated resilient-seated double-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, including drinking water, recycled water and 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 operated using portable actuators.
- (e) The ability of valves to be subjected to buried and continuously immersed applications, where required with the use of suitable options.

NOTE: For purchasing guidelines, see Appendix B.

**1.2 APPLICATION**

Appendix A sets out the means by which compliance with this Standard shall be demonstrated by a manufacturer for the purposes of product certification.

**1.3 NORMATIVE REFERENCES**

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

AS	
1111	ISO metric hexagon commercial bolts and screws—Product grade C
1111.1	Part 1: Bolts
1111.2	Part 2: Screws
1112	ISO metric hexagon nuts
1112.3	Part 3: Product grade C
1210	Pressure vessels
1565	Copper and copper alloys—Ingots and castings