

Australian Standard[®]

Butterfly valves for general purposes

STANDARDS
Australia



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 13 August 2013.

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- Australian Chamber of Commerce and Industry
 - Australian Industry Group
 - Australian Stainless Steel Development Association
 - Australian Water Association
 - Engineers Australia
 - Institute of Instrumentation, Control and Automation Australia
 - Local Government New Zealand
 - Plastics Industry Pipe Association of Australia
 - Plumbing Products Industry Group
 - Water Corporation Western Australia
 - Water Industry Alliance
 - Water Services Association of Australia
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PREFACE

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

This Standard is in response to a request from Water Services Association of Australia (WSAA) to provide a suitable product Standard for general purpose butterfly valves for fire protection, mechanical services, plumbing and general industrial uses. It excludes butterfly valves for waterworks purposes, which are covered by AS 4795.1, *Butterfly valves for waterworks purposes, Part 1: Wafer and lugged*, and AS 4795.2, *Butterfly valves for waterworks purposes, Part 2: Double flanged*. Manual shut off valves for gas services are addressed by AS 4617, *Manual shut off gas valves*.

The objective of this Standard is to specify design requirements, suitable materials and performance tests for general purpose butterfly valves, together with compliance requirements for the use of manufacturers and conformity assessment bodies.

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 the Standard, whereas an ‘informative’ Appendix is only for information and guidance.

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

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for PN 10 and PN 16 flanged, tapped lugged, wafer and PN 10, PN 16 and PN 25 shouldered or roll grooved concentric butterfly valves of nominal sizes DN 50 to DN 600 with a maximum operating temperature of 40°C, which –

- (a) can be manually, electrically, pneumatically or hydraulically operated;
- (b) are suitable for use as isolation valves in mechanical piping systems; and
- (c) are not designed for buried service installations.

NOTE: For purchasing information that should be agreed upon at time of enquiry or order, see Appendix B.

1.2 DEMONSTRATION OF COMPLIANCE

Demonstration of compliance with this Standard shall be in accordance with Appendix A.

1.3 NORMATIVE REFERENCES

The following are the normative documents referenced in this Standard:

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| 681.1 | Elastomeric seals—Material requirements for pipe joint seals used in water and drainage applications—Vulcanized rubber |
| 1214 | Hot-dip galvanized coatings on threaded fasteners (ISO metric coarse thread series) |
| 1565 | Copper and copper alloys—Ingots and castings |
| 1627 | Metal finishing—Preparation and pre-treatment of surfaces |
| 1627.4 | Part 4: Abrasive blast cleaning |
| 1646 | Elastomeric seals for waterworks purposes |
| 1830 | Iron castings—Grey cast iron |
| 1831 | Ductile cast iron |
| 1833 | Austenitic cast iron |
| 2074 | Cast steels |
| 2329 | Flanges for pipes, valves and fittings |
| 2345 | Dezincification resistance of copper alloys |
| 3894 | Site testing of protective coatings |
| 3894.3 | Method 3: Determination of dry film thickness |
| 60529 | Degrees of protection provided by enclosures (IP Code) |