Australian Standard™

# Double-flanged butterfly valves for waterworks purposes



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 16 November 2002 and published on 20 December 2002.

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# PREFACE

This Standard was prepared by the Joints Standards Australia/Standards New Zealand Committee WS-022, Valves for Water Supply Purposes, in response to a request from Water Services Association of Australia (WSAA) to provide a suitable product Standard for double-flanged butterfly valves.

The objective of this Standard is to provide material requirements and performance tests for butterfly valves 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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STANDARDS AUSTRALIA

# Australian Standard
# Double-flanged butterfly valves for waterworks purposes

## SECTION 1 SCOPE AND GENERAL

### 1.1 SCOPE

This Standard specifies requirements for Classes 10, 16, 21 and 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 potable water and recycled water as well as screened wastewater.

(c) Valves of nominal size:

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

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

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

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

Class 35 valves are only supplied with 'Ring Body Flanges' while Class 21 may also be supplied with 'Ring Body Flanges'.

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

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

### 1.2 REFERENCED DOCUMENTS

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

### 1.3 DEFINITIONS

#### 1.3.1 Bonded

Glued or adhered where it can be removed on site.

#### 1.3.2 Ring body flange valve

The area, between the flanges of the valve, that are solid cast. The flange holes can either be drilled and tapped, or drilled for clearance of the flange bolts.

#### 1.3.3 Seal on disc

A seal that is attached to the perimeter of the disc of the valve.

#### 1.3.4 Seal in body

A seal that is either clamped or retained integrally in the body of the valve.