AS 4795.2:2025

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Butterfly valves for waterworks purposes

Part 2: Double flanged



AS 4795.2:2025

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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 AS 4795.2:2011.

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 document 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 drinking water, non-drinking water and screened wastewater. Also provided are methods for demonstrating conformance with this document.

This document applies to the following:

(a) Valves fitted with actuators and valves with the capability of being fitted with actuators.

(b) Applications, including drinking water, non-drinking water, screened (fibre free) wastewater.

(c) The ability of valves to be subjected to buried and continuously immersed applications, where required.

The terms “normative” and “informative” are used in Standards to define the application of the appendix to which they apply. A “normative” appendix is an integral part of a document, whereas an “informative” appendix is only for information and guidance.

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1 Scope and general

1.1 Scope

This document specifies requirements for resilient-seated double-flanged butterfly valves for waterworks purposes in sizes DN 80 to DN 2000 with pressure classifications of PN 10, PN 16, PN 21, PN 25 and PN 35 with a maximum operating temperature of 40°C.

1.2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

AS 1627.0, *Metal finishing—Preparation and pretreatment of surfaces, Part 0: Method selection guide*

AS 1627.4, *Metal finishing—Preparation and pretreatment of surfaces, Part 4: Abrasive blast cleaning of steel*

AS 1646, *Elastomeric seals for waterworks purposes*

AS 1831, *Ductile cast iron*

AS 2207, *Non-destructive testing—Ultrasonic testing of fusion welded joints in carbon and low alloy steel*

AS 2317, *Collared eyebolts*

AS 2345, *Dezincification resistance of copper alloys*

AS 2938, *Gears—Spur and helical—Guide to specification and rating*

AS 3894.1, *Site testing of protective coatings, Method 1: Non-conductive coatings—Continuity testing—High voltage ('brush') method*

AS 3894.3, *Site testing of protective coatings, Method 3: Determination of dry film thickness*

AS 3894.4, *Site testing of protective coatings, Method 4: Assessment of degree of cure*

AS 3894.9, *Site testing of protective coatings, Method 9 Determination of adhesion*

AS 60529, *Degrees of protection provided by enclosures (IP Code)*

AS ISO/IEC 17025, *General requirements for the competence of testing and calibration laboratories*

AS/ISO 3452-1, *Non-destructive testing - Penetrant testing General principles*

AS/NZS 4020, *Testing of products for use in contact with drinking water*

AS/NZS 4087, *Metallic flanges for waterworks purposes*

AS/NZS 4158, *Thermal-bonded polymeric coatings on valves and fittings for water industry purposes*

AS/NZS 4331.2, *Metallic flanges – Cast iron flanges*

ISO 1083, *Spheroidal graphite cast irons — Classification*

ISO 23277, *Non-destructive testing of welds — Penetrant testing — Acceptance levels*

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