

Australian/New Zealand Standard™

Gate valves for waterworks purposes

Part 2: Resilient seated



AS/NZS 2638.2:2011

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee WS-022, Valves for Waterworks Purposes. It was approved on behalf of the Council of Standards Australia on 1 April 2011 and on behalf of the Council of Standards New Zealand on 13 May 2011.

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The following are represented on Committee WS-022:

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Australian Industry Group
Australian Stainless Steel Development Association
Australian Water Association
Engineers Australia
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PREFACE

This Standard was prepared by the Joint Standard Australia/Standards New Zealand Committee WS-022, Valves for Waterworks Purposes, to supersede AS 2638.2—2006.

This Standard incorporates Amendment No. 1 (August 2017). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Standard is to specify requirements for PN 16 and PN 25 metal-bodied resilient-seated gate valves for waterworks purposes.

This revision includes the following changes:

- (a) Clarification of definition of ‘type test’.
- (b) Inclusion of alternative materials.
- (c) A statement that gate valves are not designed for throttling purposes.

Attention is drawn to the proposed publication of SAI/SNZ Rul PL/2. *Rulings to the Australian Standard Gate valves for waterworks purposes.* Where rulings of public significance are issued, they will be available from Standards Australia through a subscription service. When rulings are included in an amendment or revision, the specific ruling will be withdrawn at the time of publication of the amendment. Enquiries should be directed to Standards Australia.

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

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/STANDARDS NEW ZEALAND

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for PN 16 and PN 25 metal-bodied resilient seated gate valves for waterworks purposes, with a maximum operating temperature of 40°C. This Standard is applicable to the following versions:

- (a) Valves of nominal sizes DN 80 to DN 750 with inside screw and non-rising spindle design, operated by a removable key, with or without a gearbox, for buried applications.
- (b) Valves of nominal size DN 80 to DN 750 with inside screw and non-rising spindle design, operated by a handwheel, with or without a gearbox, for above-ground applications.
- (c) Valves of nominal size DN 80 to DN 300 with outside screw and rising spindle design, operated by a handwheel, for above-ground applications where the position of the gate is required to be visible.
- (d) Valves of nominal sizes DN 450 to DN 750 with an integral bypass arrangement.

NOTES:

- 1 The design criteria of the valve and fasteners should be based on a minimum life expectancy of 50 years.
- 2 Purchasing guidelines are given in Appendix B.

1.2 APPLICATION

A1 Means for demonstrating conformity with this Standard shall be in accordance with Appendix A.

1.3 NORMATIVE REFERENCES

NOTE: Documents referenced for informative purposes are listed in the Bibliography.

The following are the normative documents referenced in this Standard.

AS/NZS 681	Elastomeric seals—Material requirements for pipe joint seals used in water and drainage applications
681.1	Part 1: Vulcanized rubber
1111	ISO metric commercial bolts and screws—Product grade C
1111.1	Part 1: Bolts
1111.2	Part 2: Screws
1442	Carbon steels and carbon-manganese steels—Hot-rolled bars and semi-finished products
1565	Copper and copper alloys—Ingots and castings