AS 2638.1—1999
(Incorporating Amendment No. 1)

Australian Standard™

Sluice valves for waterworks purposes

Part 1: Metal seated

Standards Australia

This Australian Standard was prepared by Committee WS/22, Valves for Water Supply Purposes. It was approved on behalf of the Council of Standards Australia on 25 June 1999 and published on 5 September 1999.

The following interests are represented on Committee WS/22:

The Association of Consulting Engineers Australia

Australian Chamber of Commerce and Industry

Australian Chamber of Manufactures

Australian Valve Manufacturers Association

Department of Natural Resources (Qld)

Local Government New Zealand

Master Plumbers Australia

Metal Trades Industry Association of Australia

Society of Mechanical Engineers of Australasia

Water Services Association of Australia (WSAA)

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Part 1: Metal seated

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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 2638—1991, *Sluice valves for waterworks purposes*.

This Standard incorporates Amendment No. 1 (April 2001). 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.

This Standard is the result of a consensus among Australian and New Zealand representatives on the Committee to produce it as an Australian Standard.

AS 2638—1991 covered both metal and resilient seated valves. The Committee considered that industry would benefit from the issue of separate Standards for these two valve types, as follows:

AS 2638.1 Sluice valves for waterworks purposes,
Part 1: Metal seated (this Standard)

AS 2638.2 Sluice valves for waterworks purposes,
Part 2: Resilient seated.

Attention is drawn to the proposed publication of SAA Rail PL.2, Rulings to the Australian Standard *Sluice 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 When rulings are included in an amendment or revision, the specific ruling will be withdrawn at the time of publication of the amendment. Enquires 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.

Support and contribution is acknowledged from the Water Services Association of Australia (WSAA).

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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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for inside screw solid wedge, metal-seated sluice valves in non-rising stem design, for waterworks purposes. This Standard is applicable to Class 14, Class 16, Class 21 and Class 35 valves of nominal sizes DN 80 to DN 750, with a maximum working temperature of 60°C.

The valves are usually operated by a removable key, with or without a gearbox, or a handwheel, in buried or aboveground installations.

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

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1199 Sampling procedures and tables for inspection by attributes

1565 Copper and copper alloys—Ingots and castings

1646 Elastomeric seals for waterworks purposes

1830 Iron castings—Grey cast iron

1831 Iron castings—Spheroidal or nodular graphite cast iron

1939 Degrees of protection provided by enclosures for electrical equipment

2345 Dezincification resistance of copper alloys

2938 Gears—Spur and helical—Guide to specification and rating

3855 Suitability of plumbing and water distribution systems products for contact with potable water

4087 Metallic flanges for waterworks purposes

B202 General purpose Acme screw threads

AS/NZS

1111 ISO metric hexagon commercial bolts and screws

1252 High strength steel bolts with associated nuts and washers for structural engineering

1567 Copper and copper alloys—Wrought rods, bars and sections

1568 Copper and copper alloys—Forging stock and forgings

2280 Ductile iron pressure pipes and fittings