

Australian Standard™

**Sluice valves for waterworks purposes**

**Part 1: Metal seated**



**S t a n d a r d s** 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.

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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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AS 2638.1—1999  
(Incorporating Amendment No. 1)

Australian Standard™

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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 Rul 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 When rulings are included in an amendment or revision, the specific ruling will be withdrawn at the time of publication of the amendment.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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## STANDARDS AUSTRALIA

Australian Standard  
**Sluice valves for waterworks purposes**

Part 1: Metal seated

## 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