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Australian Standard®

Sluice valves for waterworks purposes

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 30 April 1991 and published on 12 July 1991.

The following interests are represented on Committee WS/22:

A.C.T. Electricity and Water

Association of Consulting Engineers Australia

Australian Valve Manufacturers Association

Board of Works, Melbourne

Brisbane City Council

Confederation of Australian Industry

Department of Public Works, N.S.W.

Engineering and Water Supply Department, S.A.

Hunter Water Board, N.S.W.

Metal Trades Industry Association

Rural Water Commission of Victoria

Society of Mechanical Engineers of Australia

Victorian Chamber of Manufactures

Water Authority of Western Australia

Water Board, Sydney—Illawarra—Blue Mountains

Water Resources Commission, Qld

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PREFACE

This Standard was prepared by the Standards Australia Committee on Valves for Water Supply Purposes, to supersede AS 2638—1988.

Performance requirements have been included for the various strength tests, and lists minimum stem diameters according to minimum tensile strengths of materials to meet torques applied, based on ISO 7259.

Other changes include full and raised face flanges and optional types of internal and external coating necessitated by reduced body thicknesses of ductile iron components.

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard specifies requirements for sluice valves of inside screw, solid wedge, metal or resilient seated, non-rising stem design, for waterworks purposes, in nominal sizes of DN 80 to DN 600.

The valves are primarily intended for use with potable water and are usually operated by a removable key or handwheel in buried or above-ground installations.

NOTE: Guidelines for purchasers, on requirements that need to be agreed upon at the time of enquiry or order, are given in Appendix A.

1.2 APPLICATION Sluice valves complying with this Standard are intended for use with water supply pipes and fittings complying with AS 1074, AS 1392, AS 1477, AS 1579, ~~AS 1711~~, AS 1835, AS 1836, AS 2074, AS 2280, AS 2544, and AS 2977. Deleted by Amdt 1

1.3 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS	
1074	Steel tubes and tubulars for ordinary service
1110	ISO metric hexagon precision bolts and screws
1111	ISO metric hexagon commercial bolts and screws
1252	High strength steel bolts with associated nuts and washers for structural engineering
1392	Precast concrete pressure pipes
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Amdt 1. 1646	~~Rubber joint rings for water supply, sewerage and drainage purposes~~ Elastomeric seals for waterworks purposes.
1830	Iron castings—Grey cast iron
1831	Iron castings—Spheroidal or nodular graphite cast iron
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1835	Tubes for pressure purposes—Seamless steel
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2280	Ductile iron pressure pipes and fittings
2317	Collared eyebolts
2544	Grey iron pressure pipes and fittings
2837	Wrought alloy steels—Stainless steel bars and semi-finished products
2842	Fluid power—O-rings and housings—Inch series, metric conversion
2977	Unplasticized PVC (UPVC) pipes for pressure applications—Compatible with cast iron pipe outside diameters
2977.1	Part 1: Pipes
~~4796(Int)~~	Dezincification resistance of copper alloys
3855(Int)	Suitability of plumbing products for contact with potable water