

Australian Standard™

**Arc-welded steel pipes and fittings for
water and wastewater**



This Australian Standard was prepared by Committee WS-009, Rolled and Welded Steel Pipes. It was approved on behalf of the Council of Standards Australia on 25 May 2001 and published on 12 July 2001.

The following interests are represented on Committee WS-009:

Water Services Association of Australia
Australian Chamber of Commerce and Industry
Australian Industry Group
Bureau of Steel Manufacturers
New Zealand Manufacturers Federation
SunWater
Water Corporation of Western Australia
Central Highlands Water
Hunter Water Australia
Sydney Water Corporation

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STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 1579–2001

**Arc-welded steel pipes and fittings for
water and wastewater**

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NOTES

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water and wastewater**

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PREFACE

This Standard was prepared by the Standards Australia Committee WS-009, *Rolled and Welded Steel Pipes* to supersede AS 1579—1993.

The objective of this draft is to provide designers of rolled and welded steel pipe with requirements for design of steel pipe, and means of demonstrating compliance with the Standard.

The main changes in this revision are the following:

- (a) The provision of design methods that do not require hydrostatic testing in order to demonstrate compliance.
- (b) The inclusion of joints, joint dimensions and bends
- (c) Details of testing for steel piling.

This Standard may be used in conjunction with Standards for the protection of pipes and piles, which are referred to in the document.

Statements expressed in mandatory terms in notes to tables 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

Australian Standard**Arc-welded steel pipes and fittings for water and wastewater**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for arc-welded steel pipes and fittings with butt-welded seams, having diameters equal to or greater than 114 mm outside diameter intended for the conveyance of water and wastewater at rated pressures up to 6.0 MPa, and for use as piles.

Methods of demonstrating compliance with this Standard are given in Appendix A.

NOTE: Purchasing guidelines are given in Appendix B.

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard.

AS

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|--------|--|
| 1199 | Sampling procedures and tables for inspection by attributes |
| 1281 | Cement mortar lining of steel pipes and fittings |
| 1349 | Bourdon tube pressure and vacuum gauges |
| 1399 | Guide to AS 1199—Sampling procedures and tables for inspection by attributes |
| 1646 | Elastomeric seals for waterworks purposes |
| 1646.1 | Part 1: General requirements |
| 1646.2 | Part 2: Material requirements for pipe joint seals used in water and wastewater |
| 1646.3 | Part 3: Material requirements for pipe joint seals used in water and wastewater applications with the exception of natural rubber and polyisoprene compounds |
| 1978 | Pipelines—Gas and liquid petroleum—Field pressure testing |
| 2812 | Welding, brazing and cutting of metals—Glossary of terms |
| 4087 | Metallic flanges for waterworks purposes |
| 4321 | Fusion-bonded medium-density polyethylene coating and lining for pipes and fittings |

AS/NZS

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|------------|---|
| 3500 | National Plumbing and Drainage Code |
| 3500.0 | Part 0: Glossary of terms |
| 1554 | Structural steel welding |
| 1554.1 | Part 1: Welding of steel structures |
| 1594 | Hot-rolled steel flat products |
| 3678 | Structural Steel—Hot-rolled plates, floorplates and slabs |
| 4020 | Products for use in contact with drinking water |
| SAI | |
| HB18 | Guidelines for third-party certification and accreditation |
| HB18.28 | Guide 28: General rules for a model third-party certification system for products |