



**Standards
Association of
Australia**



Under revision see DR 90173

Australian Standard[®] 2280—1988

DUCTILE IRON PRESSURE PIPES AND FITTINGS



This Australian Standard was prepared by Committee WS/16, Cast Iron Pressure Pipes and Fittings. It was approved on behalf of the Council of the Standards Association of Australia on 23 December 1987 and published on 7 March 1988.

The following interests are represented on Committee WS/16:

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Confederation of Australian Industry
Department of Administrative Services—Construction Group
Department of Local Government, Qld
Engineering and Water Supply Department, S.A.
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STANDARDS AUSTRALIA

AMENDMENT No 1

to

AS 2280—1988

DUCTILE IRON PRESSURE PIPES AND FITTINGS



REVISED TEXT

The 1988 edition of AS 2280 is amended as follows; the amendment(s) should be inserted in the appropriate place.

SUMMARY: This Amendment applies to Clauses 5.1.1.2, 5.1.2.3, 6.2.1, 7.3, 7.3.1, 7.3.2, Figure 5.1 and Appendix G.

Published on 3 April 1989.

AMDT No 1 APR. 1989 Page 11. Clause 5.1.1.2.

Delete Clause 5.1.1.2 and *substitute*:

5.1.1.2 Length. The minimum effective spigot and socket pipe length shall be 5 m. The effective pipe length should be 5.5 m.

AMDT No 1 APR. 1989 Page 11. Clause 5.1.2.3.

Delete Clause 5.1.2.3 and *substitute*:

5.1.2.3 Tolerance on length. The tolerance on effective length shall be ± 30 mm except for pipes which have had a test specimen cut from them as provided for in Clause 5.1.1.2. The tolerance on special cut pipe lengths shall be ± 6 mm.

AMDT No 1 APR. 1989 Page 11. Figure 5.1.

Delete '(1.3 + 0.001 inside diameter)' and *substitute*:

'(1.3 + 0.001 nominal inside diameter) numbers rounded up'

AMDT No 1 APR. 1989 Page 13. Clause 6.2.1.

Item (b), *delete* ' ± 12.5 percent' and *substitute* ' $- 12.5$ percent'.

AMDT No 1 APR. 1989 Page 44. Clause 7.3.

Delete 'CEMENT MORTAR'.

Delete Clause 7.3.1 and *substitute*:

7.3.1 Cement mortar lining. Where specified all pipes shall be cement mortar lined along their effective lengths. Where specified all fittings shall be cement mortar lined. The thickness of the cement mortar shall be as given in Table 7.1. Internal surfaces of sockets where specified shall be treated to comply with Clause 7.3.2. The linings shall not affect the sealing of the gaskets.

Delete Clause 7.3.2 and *substitute*:

7.3.2 Bitumen lining. Pipes and fittings where specified, shall be bitumen lined to comply with Clause 7.2.2. The lining shall not affect the sealing of the gaskets.

AMDT No 1 APR. 1989 Page 53. Appendix G.

Delete '(This Appendix forms an integral part of this Standard)' and *substitute*:

'(This Appendix does not form an integral part of this Standard)'.

AUSTRALIAN STANDARD

DUCTILE IRON PRESSURE PIPES AND FITTINGS

AS 2280—1988

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PREFACE

This Standard was prepared by the Association's Committee on Cast Iron Pressure Pipes and Fittings, to supersede AS 2280—1979, *Centrifugally cast ductile iron pressure pipes*. The Standard adds manufacturing requirements and dimensions for ductile iron fittings to those for centrifugally cast ductile iron pressure pipes previously covered by AS 2280—1979. This Standard covers ductile iron pressure pipes and fittings. Nominal pressure ratings are given in Appendix D. Flanges can be drilled for compatibility with AS 2129, Tables C, D, and E (for standard pressure) or Tables F and H (for high pressure).

The classes of pipe are designated K9 and K12; these designations are, in terms of wall thickness, consistent with ISO 2531, *Ductile iron pipes, fittings and accessories for pressure pipelines*, and BS 4772, *Ductile iron pipes and fittings*. Outside diameter designations are consistent with AS 2544, *Grey iron pressure pipes and fittings*.

Fittings covered by this Standard are intended primarily for use with water supply pressure pipes that have outside diameters compatible with the fittings. The fittings specified could, by means of suitable adaptors, be used with other pressure pipes. Details of fittings not covered by this Standard must be specified by the purchaser.

This Standard sets out manufacturing requirements and dimensions for pipes and fittings. The hydrostatic test pressures specified in Appendix E are intended primarily to detect casting flaws and bear no relation to safe working pressures for pipes and fittings. Pipes and fittings having nominal thickness differing from those specified in the appropriate tables of this Standard should of necessity be the subject of an agreement between the purchaser and manufacturer.

Ductile iron pressure pipes and fittings with spigot and socket ends are manufactured for use with flexible joints in which the seal is made by means of a suitably retained rubber gasket. It is not possible to include complete details of such joints and joint surfaces without restricting their future developments in their design. Nonetheless gasket and joint surfaces must be in accordance with manufacturer's standard dimensions and tolerances.

The manufacturer's guidance should be obtained in regard to interchangeability where pipes and fittings of differing designs are to be jointed.

Ductile iron flanges appropriate for the fittings in this Standard have been specifically designed. The criteria used for the design of the flanges has been determined on basic requirements of water supply and sewerage works for which this Standard is primarily prepared.

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