



Plastics pipes and fittings for gas reticulation

Part 2: Polyamide fittings



This Australian Standard® was prepared by Committee PL-021, PVC, ABS and Polyamide Pipe Systems. It was approved on behalf of the Council of Standards Australia on 12 October 2007.

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The following are represented on Committee PL-021:

- Australian Chamber of Commerce and Industry
 - Australian Nuclear Science and Technology Organisation
 - Certification Interests (Australia)
 - CSIRO Manufacturing and Infrastructure Technology
 - Energy Networks Association
 - Engineers Australia
 - New Zealand Local Government
 - Master Plumbers, Gasfitters and Drainlayers New Zealand
 - New Zealand Water and Waste Association
 - Plastics Industry Pipe Association of Australia
 - Plastics New Zealand
 - Water Services Association of Australia
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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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Australian Standard[®]

Plastics pipes and fittings for gas reticulation

Part 2: Polyamide fittings

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PREFACE

This Australian Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee PL-021, PVC, ABS and Polyamide Pipe Systems, to supersede AS 2944.2—1987. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

This Standard incorporates Amendment No. 1 (December 2018). 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 complements AS 2944.1, *Plastic pipes and fittings for gas reticulation, Part 1: Polyamide pipes* and AS 2943, *Plastics pipes and fittings for gas reticulation—Polyamide compounds*.

The objective of this Standard is to provide minimum requirements for the manufacture and performance of polyamide fittings for pressure applications for use by manufacturers, specifiers and purchasers of these products.

In the preparation of this Standard, consideration has been given to international best practice.

The test criteria specified apply to fittings at the time of manufacture. Fittings that have been in service might not meet the same performance requirements.

The term ‘normative’ has been used in this Standard to define the application of the appendix to which it applies. A ‘normative’ appendix is an integral part of a Standard.

Statements expressed in mandatory terms in notes to tables and figures are deemed to be requirements of this Standard. Notes to text are for information and guidance only.

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STANDARDS AUSTRALIA

Australian Standard
Plastics pipes and fittings for gas reticulation

Part 2: Polyamide fittings

1 SCOPE

This Standard specifies requirements for moulded polyamide external fittings for use with polyamide gas pipe, suitable for operation at pressures up to and including 400 kPa.

2 APPLICATION

Determination of compliance with this Standard shall be in accordance with Appendix A.

3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

- | | |
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| 1199 | Sampling procedures for inspection by attributes |
| 1199.1 | Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection |
| 2943 | Plastics pipes and fittings for gas reticulation—Polyamide compounds |
| 2944 | Plastics pipes and fittings for gas reticulation |
| 2944.1 | Part 1: Polyamide pipes |

A1

AS ISO/IEC

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| 17025 | General requirements for the competence of testing and calibration laboratories |
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AS/NZS

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| 1462 | Methods of test for plastics pipes and fittings |
| 1462.1 | Part 1: Method for determining the dimensioning of pipes and fittings |
| 1462.6 | Part 6: Method for hydrostatic pressure testing of pipes |

HB Conformity assessment

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| 18.28 | Guide 28: Guidance on a third-party certification system for products |
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4 NOTATION

The following symbols are used in this Standard:

- D_e = nominal outside diameter, in millimetres
- D_i = socket mouth mean diameter, in millimetres
- D_r = socket root mean diameter, in millimetres
- L = socket length, in millimetres
- T = wall thickness, in millimetres
- t = socket taper, in millimetres (equivalent to $D_i - D_r$)