AS 2698.3—1990
Reconfirmed 2017

Australian Standard®

Plastics pipes and fittings for irrigation and rural applications

Part 3: Mechanical joint fittings for use with polyethylene micro-irrigation pipes

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This Australian Standard was prepared by Committee PL/18, Polyethylene Irrigation Systems. It was approved on behalf of the Council of Standards Australia on 27 October 1989 and published on 12 March 1990.

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RECONFIRMATION

OF
AS 2698.3—1990
Plastics pipes and fittings for irrigation and rural applications
Part 3: Mechanical joint fittings for use with polyethylene micro-irrigation pipes

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PREFACE

This Standard was prepared by Standards Australia Committee for Polyethylene Irrigation Systems under the direction of the Plastics Standards Board. It is based on a draft prepared by the Plastics Institute of Australia Inc.

The pressure loss performance requirements for fittings will receive consideration in a future revision of this Standard.

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STANDARDS AUSTRALIA

Australian Standard

Plastics pipes and fittings for irrigation and rural applications

Part 3: Mechanical joint fittings for use with polyethylene micro-irrigation pipes

1 SCOPE. This Standard specifies requirements for mechanical jointing fittings suitable for use as fixed joints with polyethylene pipes manufactured in accordance with AS 2698, Part 1. Fittings manufactured in accordance with this Standard are intended for the conveyance of water for use in micro-irrigation applications, below and above ground.

NOTES:

1. Fittings may be suitable for use with fluids other than water. Advice should be sought from the manufacturer.
2. Advisory information on alternative methods for determining compliance of a 'lot' with this Standard is given in Appendix A.
3. No maximum extension of the bore of the pipe by a barbed fitting has been specified; the success of the assembled joint is determined by its performance when tested in accordance with Clause 10.2.

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

AS

1199 Sampling procedures and tables for inspection by attributes

1349 Bourdon tube pressure and vacuum gauges

1399 Guide to AS 1199 — Sampling procedures and tables for inspection by attributes

1460 Mechanical jointing fittings for use with polyethylene pressure pipes

1477 Unplasticized PVC (UPVC) pipes and fittings for pressure applications

1585 Capillary and brazing fittings of copper and copper alloy

1590 Copper alloy threaded pipe fittings for use with tubes threaded with pipe threads of Whitworth form

1645 Copper and copper alloy compression fittings for use in water supply and hot water services

1821-23 Suppliers quality systems

2000 Guide to AS 1821-23 — Suppliers quality systems

2345 Accelerated laboratory test method for assessment of the susceptibility of brass to dezincification

2417 Pumps — The international acceptance test codes

2417.2 Part 2: ISO 2548 — Class C tests

2490 Sampling procedures and charts for inspection by variables for percent defective

2698 Plastics pipes and fittings for irrigation and rural applications

2698.1 Part 1: Polyethylene micro-irrigation pipe

3900 Quality systems — Guide to selection and use

3901 Quality systems for design/development, production, installation and servicing

3902 Quality systems for production and installation

3903 Quality systems for final inspection and test

3904 Quality systems — Guide to quality management and quality system elements

BS

1042 Measurement of fluid flow in closed conduits
Part 1: Section 1.1 Orifice plates, nozzles and venturi tubes inserted in circular cross section conduits running full

3 DEFINITIONS. For the purpose of this Standard, the definitions below apply:

3.1 Working pressure — the maximum pressure that can be sustained by the type and class of pipe or fitting for its estimated useful life under the anticipated working conditions.

3.2 Test pressure — the pressure applied internally to pipes and fittings when they are being tested for strength and watertightness.

3.3 Type test — a test intended to prove the suitability and performance of a new composition, a new compounding or processing technique, or a new design or size of pipe, joint or fitting.

4 EFFECT OF TEMPERATURE ON WORKING PRESSURE. The reduction of working pressure with increasing temperatures above 20°C shall be not less for the fitting and joint than that specified for polyethylene pipe in AS 2698, Part 1.

5 CLASSIFICATION.

5.1 Internal grip fittings (insert-type fittings) — fittings which grip the pipe only at its inner surface.

5.2 External grip fittings (compression-type fittings) — fittings which grip the pipe only at its outer surface.

5.3 Internal-external grip fittings — fittings which grip the pipe both at the inner surface and the outer surface of the pipe.

6 SIZE AND TYPE. The method of specifying the size and type of fittings shall be in accordance with Appendix B.

Fittings shall be manufactured so that connection ends do not deviate from the design geometry by more than 2°. (See Figure 1.)

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