

INTERNATIONAL STANDARD

**ISO
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Mechanical joint fittings for use with polyethylene pressure pipes for irrigation purposes

*Raccords mécaniques pour tubes en polyéthylène utilisés avec pression
et destinés à l'irrigation*



Reference number
ISO 9625:1993(E)



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 9625 was prepared by Technical Committee ISO/TC 138, *Plastics pipes, fittings and valves for the transport of fluids*, Sub-Committee SC 2, *Plastics pipes and fittings for water supplies*.

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Mechanical joint fittings for use with polyethylene pressure pipes for irrigation purposes

1 Scope

This International Standard specifies the requirements and test methods for mechanical fittings intended to join polyethylene (PE) pressure pipes used in above-ground and underground irrigation systems conveying water at temperatures not exceeding 45 °C.

This International Standard does not apply to fittings used in drip irrigation systems.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 7-1:—¹⁾, *Pipe threads where pressure-tight joints are made on the threads — Part 1: Designation, dimensions and tolerances.*

ISO 161-1:1978, *Thermoplastics pipes for the transport of fluids — Nominal outside diameters and nominal pressures — Part 1: Metric series.*

ISO 228-1:—²⁾, *Pipe threads where pressure-tight joints are not made on the threads — Part 1: Designation, dimensions and tolerances.*

ISO 1167:—³⁾, *Thermoplastics pipes for the transport of fluids — Resistance to internal pressure — Test method.*

ISO 3458:1976, *Assembled joints between fittings and polyethylene (PE) pressure pipes — Test of leakproofness under internal pressure.*

ISO 3459:1976, *Polyethylene (PE) pressure pipes — Joints assembled with mechanical fittings — Internal under-pressure test method and requirement.*

ISO 3501:1976, *Assembled joints between fittings and polyethylene (PE) pressure pipes — Test of resistance to pull out.*

ISO 3503:1976, *Assembled joints between fittings and polyethylene (PE) pressure pipes — Test of leakproofness under internal pressure when subjected to bending.*

ISO 4059:1978, *Polyethylene (PE) pipes — Pressure drop in mechanical pipe-jointing systems — Method of test and requirements.*

ISO 8779:1992, *Polyethylene (PE) pipes for irrigation laterals — Specifications.*

3 Classification

For the purpose of this International Standard, mechanical fittings for PE pressure pipes are classified as follows:

- a) Internal grip fittings (insert-type fittings), which grip the pipe only at its inner surface.
- b) External grip fittings (compression-type fittings), which grip the pipe only at its outer surface.
- c) Internal-external grip fittings, which grip the pipe at both its inner and outer surfaces.

1) To be published. (Revision of ISO 7-1:1982)

2) To be published. (Revision of ISO 228-1:1982)

3) To be published. (Revision of ISO 1167:1973)