
**Plastics piping systems —
Elastomeric-sealing-ring-type socket
joints for use with thermoplastic
pressure pipes — Test method for
leaktightness under internal pressure
and with angular deflection**

*Systèmes de canalisations en plastiques — Assemblages par
emboîture à bague d'étanchéité en élastomère pour les tubes sous
pression plastiques — Méthode d'essai d'étanchéité sous pression
interne et avec déviation angulaire*

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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 138, *Plastics pipes, fittings and valves for the transport of fluids*, Subcommittee SC 5, *General properties of pipes, fittings and valves of plastic materials and their accessories — Test methods and basic specifications*.

This second edition cancels and replaces the first edition (ISO 13845:2000) which has been technically revised. The reason for modification is for applicability to other plastics materials, other sizes, and/or other test conditions and alignment with texts of other International Standards on test methods.

The modifications are the following:

- no material is mentioned;
- test parameters are omitted, although the original test parameters can be found in [Annex A](#);
- editorial changes have been introduced.

Plastics piping systems — Elastomeric-sealing-ring-type socket joints for use with thermoplastic pressure pipes — Test method for leaktightness under internal pressure and with angular deflection

WARNING — Persons using this International Standard should be familiar with normal laboratory practice, if applicable. The use of this International Standard may involve hazardous materials, operations, and equipment. This International Standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this International Standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

1 Scope

This International Standard specifies a method for testing the leak tightness under internal pressure with angular deflection of assembled joints between elastomeric-sealing-ring-type sockets made of plastic or metal and plastic pressure pipes.

2 Principle

A joint assembly as test piece consisting of a plastic pipe mounted into a socket is subjected, within a specified temperature range, to a specified internal pressure regime for a specified test period while the pipe is also subject to an angular deflection in the socket. While under pressure, the test piece is monitored for signs of leakage.

3 Test parameters and requirements

The test parameters of the International Standard which refers to this test International Standard shall be used and the requirements shall be fulfilled. If one or more parameters are not given in the referring International Standard, the ones given in [Annex A](#) shall apply.

NOTE The following test parameters should be given by the International Standard which refers to this test International Standard:

- a) test medium;
- b) test pressure [bar or MPa];
- c) test duration [h];
- d) test temperature [°C];
- e) angle of deflection (α) [°];
- f) free length [mm].

4 Apparatus

4.1 Framework, comprising at least two fixing devices, one of which is movable to allow angular deflection to be applied to the test joint. A typical arrangement is shown in [Figure 1](#).