

Plastics piping systems - Thermoplastics pipes and fittings for hot and cold water - Test method for the resistance of joints to pressure cycling (ISO 19892:2011)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 19892:2018 sisaldab Euroopa standardi EN ISO 19892:2018 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 19892:2018 consists of the English text of the European standard EN ISO 19892:2018.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 26.09.2018.	Date of Availability of the European standard is 26.09.2018.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

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English Version

Plastics piping systems - Thermoplastics pipes and fittings
for hot and cold water - Test method for the resistance of
joints to pressure cycling (ISO 19892:2011)

Systèmes de canalisations en plastiques - Tubes en
matières thermoplastiques et raccords pour l'eau
chaude et froide - Méthode d'essai de la résistance des
assemblages aux cycles de pression (ISO 19892:2011)

Kunststoff-Rohrleitungssysteme - Rohre und
Formstücke aus Thermoplasten für Warm- und
Kaltwasser - Prüfverfahren für die
Widerstandsfähigkeit von Verbindungen gegen
Druckwechselbeanspruchung (ISO 19892:2011)

This European Standard was approved by CEN on 1 October 2017.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

The text of ISO 19892:2011 has been prepared by Technical Committee ISO/TC 138 "Plastics pipes, fittings and valves for the transport of fluids" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 19892:2018 by Technical Committee CEN/TC 155 "Plastics piping systems and ducting systems" the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2019, and conflicting national standards shall be withdrawn at the latest by September 2021.

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This document supersedes EN 12295:1999.

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Endorsement notice

The text of ISO 19892:2011 has been approved by CEN as EN ISO 19892:2018 without any modification.

Plastics piping systems — Thermoplastics pipes and fittings for hot and cold water — Test method for the resistance of joints to pressure cycling

1 Scope

This International Standard specifies a method for testing the resistance of joints to pressure cycling. It is applicable to piping systems based on thermoplastics pipes intended to be used in hot and cold water applications.

2 Principle

An assembly of pipes and fittings is subjected to water pressure cycling between two positive pressure limits, while being maintained at a specified temperature and inspected for leakage.

NOTE It is assumed that the following test parameters are set by the reference standard (i.e. the standard making reference to this International Standard), as applicable (see Clause 4):

- a) the test temperature;
- b) the number of test pieces;
- c) the test pressure limits;
- d) the duration of one cycle;
- e) the number of cycles.

3 Apparatus

3.1 Pressurizing device, capable of applying and regulating the water pressure in the test piece in a sinusoidal or trapezoidal form between pressure limits as specified in the reference standard.

3.2 Pressure measurement device, capable of measuring the water pressure in the test piece to an accuracy of ± 5 %. The device measurement shall be capable of producing a record of the sinusoidal or trapezoidal wave form.

3.3 Test chamber, capable of maintaining the specified test temperature (see Clause 4) to an accuracy of ± 2 °C.

3.4 Thermometer(s), capable of checking conformity to the specified test temperature (see 3.3).

3.5 End-sealing device, of appropriate size and sealing method for sealing the non-joined end of the test piece. The device shall be restrained in a manner which does not exert longitudinal forces on the joints.

A typical test arrangement is shown in Figure 1.