

**Plasttorustikusüsteemid.
Klaassarrusega termokõvenevast
plastist torud. Tsüklilise sisesurve mõju
katsemeetod**

Plastics piping systems - Glass-reinforced
thermosetting plastics (GRP) pipes - Test method for
the effects of cyclic internal pressure

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 1638:1999 sisaldab Euroopa standardi EN 1638:1997 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 12.12.1999 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 1638:1999 consists of the English text of the European standard EN 1638:1997.</p> <p>This document is endorsed on 12.12.1999 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: Käesolev standard määrab kindlaks meetodi tsüklilise sisesurve mõjude uurimiseks klaassarrusega termokõvenevast plastist torudel. Standard kehtib torudele nimiläbimõõduga kuni DN 600 (kaasa arvatud). Tähelepanu! Kuigi käesolev standard kehtib torude kohta, võib kirjeldatud meetodeid rakendada toruliitmikele.</p>	<p>Scope:</p>
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ICS 23.040.20

Võtmesõnad: klaassarrusplastid, plasttorud, proovikehad, sarrusplastid, surveteimid, termokõvenevad vaigud, vastupidavus survele

ICS 23.040.20

Descriptors: Plastics, pipes, GRP, internal pressure test.

English version

Plastics piping systems

Glass-reinforced thermosetting plastics (GRP) pipes

Test method for the effects of cyclic internal pressure

Systèmes de canalisations en plastiques – Tubes en plastiques thermodurcissables renforcés de verre (PRV) – Méthode d’essai relative aux effets de la pression cyclique interne

Kunststoff-Rohrleitungssysteme – Rohre aus glasfaserverstärkten duroplastischen Kunststoffen (GFK) – Prüfverfahren für die Auswirkungen von zyklischem Innendruck

This European Standard was approved by CEN on 1997-01-27.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 155 "Plastics piping systems and ducting systems", the secretariat of which is held by NNI.

The material-dependent test parameters and/or performance requirements are incorporated in the referring standard.

This standard is one of a series of standards on test methods which support System Standards for plastics piping systems and ducting systems.

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 October 1997, and conflicting national standards shall be withdrawn at the latest by October 1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This standard specifies a method for the effects of cyclic internal pressure on of glass-reinforced thermosetting plastics (GRP) pipes. This standard is applicable to pipes of nominal size up to and including DN 600.

NOTE: Whilst this standard refers to pipes the procedures described can be applied to fittings.

2 Normative references

This standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter.

For dated references, subsequent amendments to, or revisions of, any of these publications apply to this standard only when incorporated in it by amendment or revision.

For undated references the latest edition of the publication referred to applies.

EN 1394 *Plastics piping systems - Glass-reinforced thermosetting plastics (GRP) pipes - Determination of the apparent initial circumferential tensile strength*

3 Definitions

For the purposes of this standard, the following definitions apply:

3.1 cyclic pressure: The pressure which fluctuates about a mean value at a given frequency and amplitude.

eIt is expressed in bars¹⁾ (or in megapascals).

3.2 mean pressure: The arithmetic average of the lower and upper limits of the pressure cycle.

It is expressed in bars (or in megapascals).

¹⁾ 1 bar = 10⁵ N/m² = 0,1 MPa