Plastics piping systems - Elastomeric-sealing-ring-type socket joints for use with unplasticized poly(vinyl chloride) (PVC-U) pipes - Test method for leaktightness under internal pressure and with angular deflection

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EESTI STANDARDI EESSÕNA **NATIONAL FOREWORD**

Käesolev Eesti standard EVS-EN ISO 13845:2000 sisaldab Euroopa standardi EN ISO 13845:2000 ingliskeelset teksti. Käesolev dokument on jõustatud 12.09.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN ISO 13845:2000 consists of the English text of the European standard EN ISO 13845:2000. This document is endorsed on 12.09.2000 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.

Käsitlusala: This standard specifies a method for testing the leaktightness of assemblies of unplasticized poly(vinyl chloride) (PVC-U) pipes with elastomeric sealing ring type socket joints including: sockets of pipes and fittings and double sockets as well as sockets made of ductile iron for use with PVC-U pressure piping.	**Scope:** This standard specifies a method for testing the leaktightness of assemblies of unplasticized poly(vinyl chloride) (PVC-U) pipes with elastomeric sealing ring type socket joints including: sockets of pipes and fittings and double sockets as well as sockets made of ductile iron for use with PVC-U pressure piping.

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Plastics piping systems

Elastomeric-sealing-ring-type socket joints for use with unplasticized poly(vinyl chloride) (PVC-U) pipes

Test method for leaktightness under internal pressure and with angular deflection
(ISO 13845 : 2000)

Systèmes de canalisations en plastiques – Assemblages par emboîture à bague d'étanchéité en élastomères pour tubes en poly(chlorure de vinyle) non plastifié (PVC-U) – Méthode d'essai d'étanchéité avec pression interne et avec déflexion angulaire (ISO 13845 : 2000)

Kunststoff-Rohrleitungssysteme – Steckmuffenverbindungen mit elastomeren Dichtringen für Rohre aus weichmacherfreiem Polyvinylchlorid (PVC-U) – Prüfverfahren für die Dichtheit unter Innendruck und Abwinkelung (ISO 13845 : 2000)

This European Standard was approved by CEN on 2000-02-03.

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, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the 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

Ref. No. EN ISO 13845 : 2000 E

Foreword

International Standard

ISO 13845 : 2000 Plastics piping systems – Elastomeric-sealing-ring-type socket joints for use with unplasticized poly(vinyl chloride) (PVC-U) pipes – Test method for leaktightness under internal pressure and with angular deflection,

which was prepared by ISO/TC 138 'Plastics pipes, fittings and valves for the transport of fluids' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 155 'Plastics piping systems and ducting systems', the Secretariat of which is held by NNI, as a European Standard.

This standard is one of a series of standards on test methods which support System Standards for plastics piping systems and ducting systems. It is based on a working draft prepared by the International Organization for Standardization (ISO) and an editorial revision of the text concerned (ISO/TC138/SC2 N 673 revised) without modification of the content.

The material-dependent parameters or performance requirements are incorporated in the System Standard(s) concerned.

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, and conflicting national standards withdrawn, by October 2000 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 13845 : 2000 was approved by CEN as a European Standard without any modification.

1 Scope

This standard specifies a method for testing the leaktightness of assemblies of unplasticized poly(vinyl chloride) (PVC-U) pipes with elastomeric sealing-ring-type socket joints including:

- single sockets of pipes;
- double sockets;
- sockets of fittings.

It is also applicable to elastomeric-sealing-ring-type sockets made of ductile cast iron for use with PVC-U pressure piping.

2 Principle

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

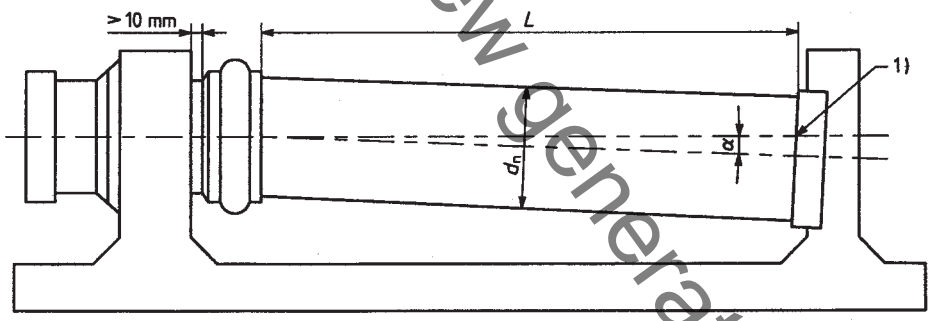
NOTE It is assumed that the following test parameters are set by the standard making reference to this standard:

a) the test pressure and pressure/time regime (see 3.2 and 5.6);

b) the number of test pieces to be used (see 4.2).

3 Apparatus

3.1 Framework, comprising at least two fixing devices, one of which is movable to allow angular deflection to be applied to the pipe within the socket. A typical arrangement is shown in figure 1.



d_n is the nominal outside diameter of the pipe

L is the free length of the pipe section [$L = 5d_n$ (min. 500 mm and max. 1500 mm)]

1) is the reference point for measuring and adjusting the angle of deflection α ($\alpha \geq 2°$)

Figure 1 — Typical Arrangement for test apparatus

WARNING For safety reasons, adequate measures should be taken in design and operation of the equipment, especially for large test piece sizes.