

## **Conditions for pressure classification of products for water and wastewater pipelines**

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 14801:2006 sisaldab Euroopa standardi EN 14801:2006 ingliskeelset teksti.	This Estonian standard EVS-EN 14801:2006 consists of the English text of the European standard EN 14801:2006.
Käesolev dokument on jõustatud 30.08.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.	This document is endorsed on 30.08.2006 with the notification being published in the official publication of the Estonian national standardisation organisation.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

<b>Käsitlusala:</b> This document applies to components (pipes, joints, fittings, ferrules and valves), which have pressure related classification in European Standards covering products which are intended to be used for buried water supply and waste water pressure pipelines outside buildings. It specifies combinations of loading conditions and installation conditions to be used in the design method by reference to the relevant product standard for the determination of the allowable pressures (PFA, PMA and PEA) as defined in EN 805.	<b>Scope:</b> This document applies to components (pipes, joints, fittings, ferrules and valves), which have pressure related classification in European Standards covering products which are intended to be used for buried water supply and waste water pressure pipelines outside buildings. It specifies combinations of loading conditions and installation conditions to be used in the design method by reference to the relevant product standard for the determination of the allowable pressures (PFA, PMA and PEA) as defined in EN 805.
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ICS 93.025, 93.030

Võtmesõnad:

ICS 93.025; 93.030

English Version

## Conditions for pressure classification of products for water and wastewater pipelines

Conditions de détermination de la classe de pression des  
produits pour réseaux d'alimentation en eau ou  
d'assainissement

Bedingungen für die Klassifizierung von Produkten für  
Rohrleitungssysteme für die Wasserversorgung und  
Abwasserentsorgung nach auftretenden Drücken

This European Standard was approved by CEN on 5 June 2006.

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.

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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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## Foreword

This document (EN 14801:2006) has been prepared by Technical Committee CEN/TC 165 "Waste water engineering", the secretariat of which is held by DIN.

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 January 2007, and conflicting national standards shall be withdrawn at the latest by January 2007.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

## Introduction

This document is intended to be used with EN 805 and European Product Standards for water supply and waste water components containing pressure classification, to ensure that the pressure classification specified in such European Product Standards will be related to the allowable pressures (i.e. PFA, PMA, PEA) as defined in EN 805.

The conditions mentioned in this document are considered to be the basics; product standards may specify additional conditions.

## 1 Scope

This document applies to components (pipes, joints, fittings, ferrules and valves), which have pressure related classification in European Standards covering products which are intended to be used for buried water supply and waste water pressure pipelines outside buildings. It specifies combinations of loading conditions and installation conditions to be used in the design method by reference to the relevant product standard for the determination of the allowable pressures (PFA, PMA and PEA) as defined in EN 805.

This document does not apply as an installation guide.

NOTE 1 This document does not give the full range of installation and loading parameters for all components and does not specify calculation and/or test methods for determination of the allowable pressures.

NOTE 2 This document does not relieve designers of their obligation under EN 805:2000, 8.4; e.g. to consider all conditions not addressed in clause 5 (e. g. seismic loads).

NOTE 3 This document does not deal with marking of components.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 805:2000, *Water supply — Requirements for systems and components outside buildings*

ENV 1046:2001, *Plastics piping and ducting systems - Systems outside building structures for the conveyance of water or sewage - Practices for installation above and below ground*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions regarding component related pressures in EN 805:2000 apply, and are repeated here for convenience.

### 3.1

#### **allowable operating pressure**

PFA

maximum hydrostatic pressure that a component is capable of withstanding continuously in service  
[EN 805:2000]

### 3.2

#### **allowable maximum operating pressure**

PMA

maximum pressure occurring from time to time, including surge, that a component is capable of withstanding in service  
[EN 805:2000]

### 3.3

#### **allowable site test pressure**

PEA

maximum hydrostatic pressure that a newly installed component is capable of withstanding for a relatively short duration, in order to ensure the integrity and tightness of the pipeline  
[EN 805:2000]