

**Duši väljavooluavad (PN 10)
sanitaartechniliste kraanide jaoks**

Shower outlets for (PN 10) sanitary tapware

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 1112:2000 sisaldab Euroopa standardi EN 1112:1997 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 11.01.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 1112:2000 consists of the English text of the European standard EN 1112:1997.</p> <p>This document is endorsed on 11.01.2000 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: Käesoleva standardi eesmärk on kindlaks määrata järgmised omadused: - lekkekindlus, dimensionaalsed, mehaanilised, hüdraulilised ja akustilised parameetrid, millele du i väljavooluavad peavad vastama; - nende parameetrite testimise meetodid. Standard kehtib mistahes materjalist du iotste ja käsidu ide kohta, mida kasutatakse pesemiseks ning mis on mõeldud vannide ja du ide sanitaartechniliste kraanide varustamiseks ja täienduseks.</p>	<p>Scope: Käesoleva standardi eesmärk on kindlaks määrata järgmised omadused: - lekkekindlus, dimensionaalsed, mehaanilised, hüdraulilised ja akustilised parameetrid, millele du i väljavooluavad peavad vastama; - nende parameetrite testimise meetodid. Standard kehtib mistahes materjalist du iotste ja käsidu ide kohta, mida kasutatakse pesemiseks ning mis on mõeldud vannide ja du ide sanitaartechniliste kraanide varustamiseks ja täienduseks.</p>
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ICS 91.140.70

Võtmesõnad: akustilised omadused, du e id, hüdraulilised omadused, liigitused, materjalid, mehaanilised omadused, mõõtmed, märgistus, sanitaartechnilised kraanid, testimine, tähistus

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Descriptors: Sanitary tapware, valves, shower outlets.

English version

Shower outlets for (PN 10) sanitary tapware

Douches pour robinetterie sanitaire (PN 10) Brausen für (PN 10) Sanitärarmaturen

This European Standard was approved by CEN on 1996-12-25.

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

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 164 "Water supply", the secretariat of which is held by AFNOR

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 July 1997, and conflicting national standards shall be withdrawn at the latest by July 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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0 Introduction

In respect of potential adverse effects on the quality of water intended for human consumption, caused by the product covered by this Standard :

- 1) this Standard provides no information as to whether the product may be used without restriction in any of the Member States of the EU or EFTA ;
- 2) it should be noted that, while awaiting the adoption of veritable European criteria, existing national regulations concerning the use and/or the characteristics of this product remain in force.

1 Scope

The aim of this European Standard is to specify :

- the dimensional, leaktightness, mechanical, hydraulic and acoustic characteristics with which shower outlets shall comply ;
- the procedures for testing these characteristics.

It applies to shower heads and hand showers of any material used for ablutionary purposes and intended for equipping and supplementing sanitary tapware for baths and showers. They shall only be connected downstream of the obturator of the tapware.

The pressure and temperature requirements are given in the table 1.

Table 1 : Conditions of use

	Limits of use	Recommended limits for correct operation
Dynamic pressure	0,05 MPa to 0,5 MPa (0,5 bar to 5 bar)	$0,1 \text{ MPa} \leq P \leq 0,3 \text{ MPa}$ (1 bar $\leq P \leq 3$ bar)
Temperature	$\leq 70 \text{ }^\circ\text{C}$	$\leq 42 \text{ }^\circ\text{C}$

Integral and remote spray attachments incorporated in the tapware (eg., sink and basin mixer taps) are not covered by this standard.

2 Normative references

This European 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 European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 1113		Shower hoses for (PN 10) sanitary tapware
ISO 228-1 :	1994	Pipe threads where pressure-tight joints are not made on threads - Part 1 : Designation, dimensions and tolerances
EN ISO 3822-1		Acoustics - Laboratory tests on noise emission from appliances and equipment used in water supply installations - Part 1 : Method of measurement
EN ISO 3822-4		Acoustics - Laboratory tests on noise emission from appliances and equipment used in water supply installations - Part 4 : Mounting and operating conditions for special appliances

3 Definitions

For the purpose of this European Standard, the following definitions apply :

3.1 shower outlet

A device for ablutionary purposes which allows water to be emitted in the form of jets or water droplets.

3.2 spray forming device

A plate with orifices through which water passes and forms a spray of water with separate definable jets or water droplets.

A mechanical device acting as the plate with orifices above mentioned.

3.3 shower arm

Component which supports a shower head and connects it to the water supply.

4 Classification

1) Shower handsets

Shower handsets are moveable hand held shower outlets which are connected to the sanitary tapware via a hose complying with EN 1113 and can be hung directly on the tapware or on the wall with the aid of an appropriate support.

2) Shower heads and body showers

Shower heads are fixed overhead shower outlets which direct water onto the user from above.

Body showers are shower outlets fixed to the vertical wall and direct water laterally onto the user.