



SLOVENSKI STANDARD
SIST EN 1112:1997
01-september-1997

Prhe (PN 10) za sanitarne armature

Shower outlets for (PN 10) sanitary tapware

Brausen für (PN 10) Sanitärarmaturen

Douches pour robinetterie sanitaire (PN 10)

Ta slovenski standard je istoveten z: EN 1112:1997

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ICS:

91.140.70 Sanitarne naprave Sanitary installations

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EUROPEAN STANDARD

EN 1112

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EUROPÄISCHE NORM

January 1997

ICS 23.040.70

Descriptors: sanitary valves, showers, classifications, designation, materials, dimensions, mechanical properties, hydraulic properties, acoustic properties, tests, marking

English version

Shower outlets for (PN 10) sanitary tapware

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

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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.

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CEN

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

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

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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of an identical text or by endorsement, at the latest by July 1997, and conflicting national standards shall be withdrawn at the latest by July 1997.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.

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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 248

Sanitary taps - General technical specifications for electro deposited nickel chrome coatings

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.

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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.

5 Designation

Shower outlets covered by this Standard are designated by :

- their type (see clause 4) ;
- their connecting thread dimension ;
- their flow rate class ;
- their acoustic group ;
- reference to this Standard : EN 1112.

EXAMPLE :

- shower handset, flow rate class B, acoustic group I. EN 1112.

NOTE : For shower handsets the connecting thread size need not be given, as it is always G 1/2.

- shower head G 1/2 flow rate class B, acoustic group I, EN 1112.

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6 Marking

Shower outlets complying with this standard shall be marked permanently, and legibly with the manufacturer's mark or the supplier's mark.

The least favourable acoustic group and the highest flow rate class must appear on the product but it need not be permanent.

7 Materials

7.1 Chemical and hygienic requirements

All materials coming into contact with water intended for human consumption shall not present any health risk up to a temperature of 90 °C. They shall not cause any deterioration to the water intended for human consumption in terms of quality, appearance, smell or taste.

Within the recommended limit for correct operation given in clause 1 the materials shall not undergo any change which would impair the performance of the showers.

Parts subjected to pressure shall withstand the pressure given in table 1. Materials without adequate resistance to corrosion shall be protected against corrosion.

7.2 Exposed surface condition and quality of coating

Visible chromium plated surfaces and Ni-Cr coatings shall comply with the requirements of EN 248.

8 Dimensional characteristics

General comment on design :

The design and construction of components without defined dimensions permits various design solutions to be adopted by the manufacturer.

Permitted deviations of the defined dimensions are given in 8.2.

8.1 Connecting dimensions

The connecting dimensions of shower outlets are specified in table 2.

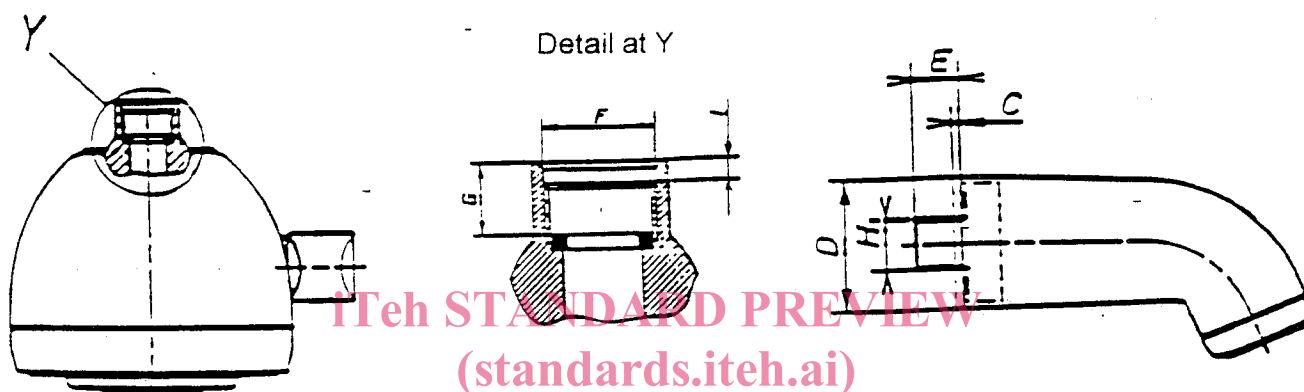


Figure 1 : Shower head SIST EN 1112:1997 [https://standards.iteh.ai/catalog/standards/sist/244cad49-521c-4ab0-8a00-0194e3770bff/sist-en-1112-1997 Figure 2 : Shower arm or shower head](https://standards.iteh.ai/catalog/standards/sist/244cad49-521c-4ab0-8a00-0194e3770bff/sist-en-1112-1997)

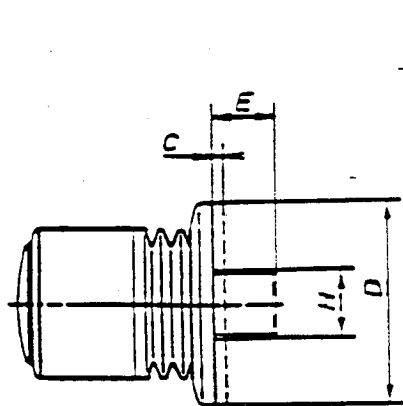


Figure 3 : Shower head and body showers

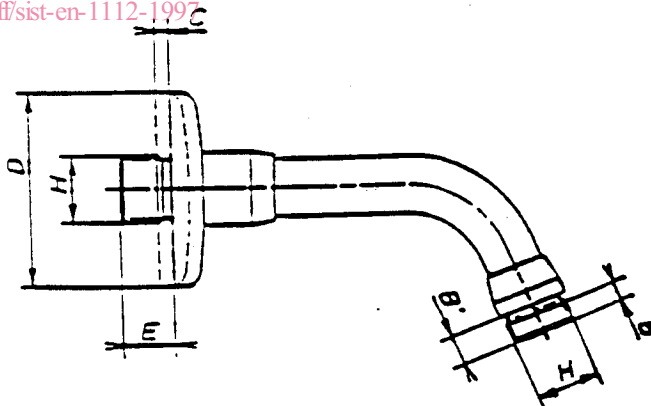


Figure 4 : Shower arm