



SLOVENSKI STANDARD
SIST EN 1113:1997
01-september-1997

Gibka cev (PN 10) za sanitarne armature

Showers hoses for (PN 10) sanitary tapware

Brauseschläuche für (PN 10) Sanitärarmaturen

Flexibles de douches pour robinetterie sanitaire (PN 10)

Ta slovenski standard je istoveten z: EN 1113:1997

[SIST EN 1113:1997
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ICS:

23.040.70	Gumene cevi in armature	Hoses and hose assemblies
91.140.70	Sanitarne naprave	Sanitary installations

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EUROPEAN STANDARD

EN 1113

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 1997

ICS 23.040.70

Descriptors: sanitary valves, showers, hoses, designation, materials, dimensions, hydraulic properties, mechanical properties, leaktightness, tests, marking

English version

Showers hoses for (PN 10) sanitary tapware

Flexibles de douches
sanitaire (PN 10)

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Brauseschläuche 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of an identical text or by endorsement, at the latest by July 1997, and conflicting national standards shall be withdrawn at the latest by July 1997.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 verifiable 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 and hydraulic characteristics with which shower hoses shall comply ;
- the procedures for testing these characteristics.

It applies to shower hoses of any material used for oblationary purposes and intended for connecting shower handsets to the sanitary tapware of baths and showers. They shall only be connected downstream of the obturator of the tapware.

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	$\leq 70 \text{ }^\circ\text{C}$	$\leq 42 \text{ }^\circ\text{C}$

Hoses which are an integral part of sanitary tapware (eg. sink mixers) or hoses intended to connect sanitary tapware to the water supplies are not covered by this standard.

2 Normative references

This European Standard incorporates by dated or undated references, 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 specification for electrodeposited nickel chrome coatings
EN 1112	Shower outlets for PN 10 sanitary tapware

ISO 228-1: 1994 Pipes threads where pressure-tight joints are not made on the threads
- Part 1 : Designation, dimensions and tolerances

3 Definition

For the purpose of this standard, the following definition applies :

A shower hose is a flexible supply pipe which connects the shower outlet of sanitary tapware to a shower handset.

4 Designation

Hoses complying with this standard, are designated by :

- the connecting thread dimensions G 1/2 x G 1/2 or G 1/2 x G 3/4 ;
- the length ;
- the material of the external sheath (plastic, metal) ;
- the type of nuts ;
- reference to this standard EN 1113.

EXAMPLE OF DESIGNATION : [SIST EN 1113:1997](https://standards.iteh.ai/catalog/standards/sist/04f48cc7-2fca-4c42-b1f1-1c1d157a4141/sist-en-1113-1997)
<https://standards.iteh.ai/catalog/standards/sist/04f48cc7-2fca-4c42-b1f1-1c1d157a4141/sist-en-1113-1997>
Shower hose G 1/2 x G 3/4 ; length 1,5 m ; metal sheath ; conical nut EN 1113.

5 Marking

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

6 Materials

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

6.2 Exposed surface condition and quality of coating

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

7 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 covered in 7.2.

7.1 Connecting dimensions

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

Table 2 : Connecting dimensions

Dimension	Values in mm	Comments
A	G 1/2 or G 3/4	Connecting thread (tap side) ISO 228-1
B	G 1/2	Connecting thread (shower side) ISO 228-1
C	$\varnothing 23 + 0,5/-0,1$	Cone diameter (if provided)
G	8,5 0/-1	Functional dimension on seal depth
I	1,5 + 0,5/0	Thread undercut
K	30 min.	Total length of cone nut
α	(3 0/-1)°	Cone angle (if provided)
L	1250 min.	Total length of hose

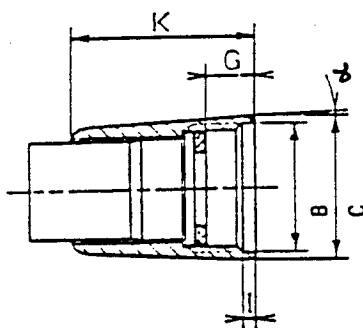


Figure 1 : Conical Nut

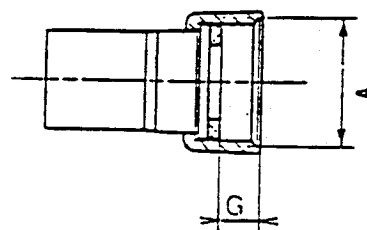
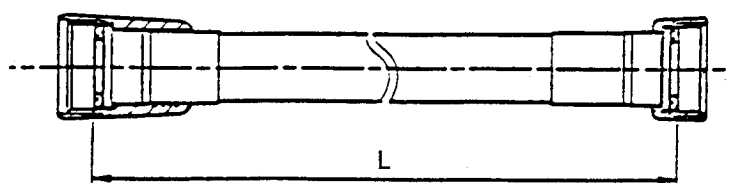


Figure 2 : Cylindrical Nut



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Figure 3 : Hose

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7.2 Special cases

Shower hoses intended for special applications eg., when dimensional interchangeability is not a requirement, can incorporate dimensional deviations provided :

- connection to the installation is guaranteed ;
- threaded connections are in compliance with ISO standards ;
- all other requirements of this standard are satisfied ;
- the manufacturers literature, including the installation instructions supplied with the shower hose, indicates clearly that the shower hose is a special case.

8 Hydraulic characteristics

8.1 General

The test described is a type test (laboratory test) and not a quality control test carried out during manufacture.