



SLOVENSKI STANDARD
kSIST FprEN 1113:2014

01-november-2014

**Sanitarne armature - Gibke cevi za sanitarne armature sistemov za oskrbo z vodo
tipa 1 in tipa 2 - Splošne tehnične zahteve**

Sanitary tapware - Shower hoses for sanitary tapware for water supply systems of type 1
and type 2 - General technical specification

Sanitärarmaturen - Brauseschläuche für Sanitärarmaturen für
Wasserversorgungssysteme vom Typ 1 und Typ 2 - Allgemeine technische Spezifikation

Robinetterie sanitaire - Flexibles de douches pour robinetterie sanitaire pour les
systèmes d'alimentation type 1 et type 2 - Spécifications techniques générales

Ta slovenski standard je istoveten z: FprEN 1113

ICS:

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

kSIST FprEN 1113:2014

en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

FINAL DRAFT
FprEN 1113

September 2014

ICS 23.040.70; 91.140.70

Will supersede EN 1113:2008+A1:2011

English Version

Sanitary tapware - Shower hoses for sanitary tapware for water supply systems of type 1 and type 2 - General technical specification

Robinetterie sanitaire - Flexibles de douches pour robinetterie sanitaire pour les systèmes d'alimentation type 1 et type 2 - Spécifications techniques générales

Sanitärarmaturen - Brauseschläuche für Sanitärarmaturen für Wasserversorgungssysteme vom Typ 1 und Typ 2 - Allgemeine technische Spezifikation

This draft European Standard is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 164.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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 CEN-CENELEC Management Centre has the same status as the official versions.

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

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Foreword.....	4
Introduction	5
1 Scope	6
2 Normative references	9
3 Terms and definitions	9
4 Designation	9
5 Marking	9
6 Materials	9
6.1 Chemical and hygienic requirements.....	9
6.2 Exposed surface condition and quality of coating	10
7 Dimensional characteristics	10
7.1 General.....	10
7.2 Connecting dimensions	10
7.3 Special cases	11
8 Hydraulic characteristics	11
8.1 General.....	11
8.2 Flow rate	12
8.2.1 Test method.....	12
8.2.2 Principle.....	12
8.2.3 Apparatus	12
8.2.4 Procedure	12
8.2.5 Requirements	12
9 Mechanical and leaktightness characteristics	14
9.1 General.....	14
9.2 Tensile strength	14
9.2.1 Test method.....	14
9.2.2 Principle.....	14
9.2.3 Apparatus	14
9.2.4 Procedure	15
9.2.5 Requirements	15
9.3 Resistance to flexing	15
9.3.1 Test Method.....	15
9.3.2 Principle.....	15
9.3.3 Apparatus	15
9.3.4 Procedure	17
9.3.5 Requirement	17
9.4 Pressure resistance at elevated temperature	17
9.4.1 Test method.....	17
9.4.2 Principle.....	17
9.4.3 Apparatus	18
9.4.4 Procedure	18
9.4.5 Requirements	19
9.5 Leaktightness after tensile strength and resistance to flexing tests	19
9.5.1 Test method.....	19
9.5.2 Principle.....	19

9.5.3	Apparatus	19
9.5.4	Procedure	19
9.5.5	Requirements	19
9.6	Thermal shock test	19
9.6.1	Test method	19
9.6.2	Principle	19
9.6.3	Apparatus	19
9.6.4	Procedure	20
9.6.5	Requirements	20
10	Rotary connection	20
10.1	General	20
10.2	Test Method	21
10.2.1	Principle	21
10.2.2	Apparatus	21
10.2.3	Procedure	21
10.2.4	Requirement	22
	Bibliography	23

FprEN 1113:2014 (E)

Foreword

This document (FprEN 1113:2014) has been prepared by Technical Committee CEN/TC 164 “Water supply”, the secretariat of which is held by AFNOR.

This document is currently submitted to the Unique Acceptance Procedure.

This document will supersede EN 1113:2008+A1:2011.

The main change to this standard is the introduction of 2 classes for hoses for supply systems of type 1. See Table 1 and Table 3.

Introduction

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

- 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.
- While awaiting the adoption of verifiable European criteria, existing national regulations concerning the use and/or the characteristics of this product remain in force.

FprEN 1113:2014 (E)

1 Scope

This European Standard specifies:

- the dimensional, leaktightness, mechanical and hydraulic characteristics with which shower hoses should comply;
- the procedures for testing these characteristics.

This European Standard applies to shower hoses of any material used for ablutionary purposes and intended for equipping and supplementing sanitary tapware for baths and showers.

This European Standard applies to shower hoses connected downstream of the obturator of the tapware.

Hoses which are an integral part of sanitary tapware (sink and wash basin mixing valves) or hoses intended to connect sanitary tapware to the water supplies are not covered by this European Standard.

Details of pressures and temperatures are given in Table 1.

Table 1 — Conditions of use/Classifications

Water Supply system	Operating range of shower hoses		Flow rates
	Limits	Recommended	See Table 3
Type 1 see Figure 1	<u>Dynamic Pressure</u> (0,05 to 0,5) MPa [(0,5 to 5) bar]	<u>Dynamic Pressure</u> (0,1 to 0,3) MPa [(1,0 to 3,0) bar]	Class 1 0,42 l/s ≤ Q (25,2 l/min ≤ Q) at (0,3 ₀ ^{+0,02}) MPa [(3 ₀ ^{+0,2}) bar]
			Class 2 0,20 l/s ≤ Q < 0,42 l/s (12 l/min ≤ Q < 25,2 l/min) at (0,3 ₀ ^{+0,02}) MPa [(3 ₀ ^{+0,2}) bar]
Type 2 see Figure 2	<u>Dynamic Pressure</u> (0,01 to 0,2) MPa [(0,1 to 2) bar]	<u>Dynamic Pressure</u> (0,02 to 0,10) MPa [(0,2 to 1,0) bar]	Class E 0,06 l/s < Q < 0,18 l/s (3,6 l/min < Q < 10,8 l/min.) at (0,01 ₀ ^{+0,0005}) MPa [(0,1 ₀ ^{+0,005}) bar]
			Class H 0,18 l/s ≤ Q (10,8 l/min ≤ Q) at (0,01 ₀ ^{+0,0005}) MPa [(0,1 ₀ ^{+0,005}) bar]
Temperature	T ≤ 70°C	T ≤ 42°C	