

Flexible hose assemblies in drinking water installations
- Functional requirements and test methods

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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ICS 23.040.70, 91.140.60

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English Version

Flexible hose assemblies in drinking water installations - Functional requirements and test methods

Tuyaux flexibles pour installations d'eau potable -
Exigences fonctionnelles et méthodes d'essai

Flexible Schlauchverbindungen in Trinkwasser-
Installationen - Funktionsanforderungen und
Prüfverfahren

This European Standard was approved by CEN on 15 August 2016.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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

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European foreword

This document (EN 13618:2016) 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of an identical text or by endorsement, at the latest by June 2017, and conflicting national standards shall be withdrawn at the latest by June 2017.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 13618:2011.

EN 13618:2016 includes the following significant technical changes with respect to EN 13618:2011:

- a) the stress corrosion testing is carried out with ammonium only;
- b) requirement ad test method for resistance of seat of female fitting are deleted;
- c) in Table 8, specific minimum flow rates and minimum bore diameters are left open;
- d) for testing the pressure jumps resistance, detailed specification for DN and applied test pressure are given;
- e) new test methods for corrosion resistance and UV resistance are introduced;
- f) in Table A.2, the dimensions C are reduced;
- g) in hydraulic performance and durability test, the number of impulses is reduced;
- h) the recommended surveillance testing of specific functional requirements is introduced.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: 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 the United Kingdom.

1 Scope

This European Standard specifies the requirements and test methods for materials, dimensions and function for flexible hose assemblies for drinking water installations, braided or not, designed for use with drinking water with an allowable maximum operating pressure (PMA) of 1 MPa and maximum operating temperature 70 °C to connect sanitary tap ware, heaters and similar appliances.

NOTE Flexible hose assemblies intended to be used as integral parts of electrical appliances are covered by EN 61770 [1].

2 Normative references

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

EN 248, *Sanitary tapware — General specification for electrodeposited coatings of Ni-Cr*

EN 806-2, *Specification for installations inside buildings conveying water for human consumption — Part 2: Design*

EN 1254-2, *Copper and copper alloys — Plumbing fittings — Part 2: Fittings with compression ends for use with copper tubes*

EN 1254-3, *Copper and copper alloys — Plumbing fittings — Part 3: Fittings with compression ends for use with plastics pipes*

EN 1254-4, *Copper and copper alloys — Plumbing fittings — Part 4: Fittings combining other end connections with capillary or compression ends*

EN ISO 228-1, *Pipe threads where pressure-tight joints are not made on the threads — Part 1: Dimensions, tolerances and designation (ISO 228-1)*

EN ISO 1456, *Metallic and other inorganic coatings — Electrodeposited coatings of nickel, nickel plus chromium, copper plus nickel and of copper plus nickel plus chromium (ISO 1456)*

EN ISO 9080, *Plastics piping and ducting systems — Determination of the long-term hydrostatic strength of thermoplastics materials in pipe form by extrapolation (ISO 9080)*

EN ISO 15875-2, *Plastics piping systems for hot and cold water installations — Crosslinked polyethylene (PE-X) — Part 2: Pipes (ISO 15875-2)*

EN ISO 15876-2, *Plastics piping systems for hot and cold water installations — Polybutylene (PB) — Part 2: Pipes (ISO 15876-2)*

EN ISO 22391-2, *Plastics piping systems for hot and cold water installations — Polyethylene of raised temperature resistance (PE-RT) — Part 2: Pipes (ISO 22391-2)*

EN ISO 30013:2011, *Rubber and plastics hoses — Methods of exposure to laboratory light sources — Determination of changes in colour, appearance and other physical properties (ISO 30013:2011)*

ISO 7-1, *Pipe threads where pressure-tight joints are made on the threads — Part 1: Dimensions, tolerances and designation*

ISO 6957, *Copper alloys — Ammonia test for stress corrosion resistance*