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PIHUSTAMISEKS. KANTAV VAHUVARUSTUS. OSA 3:  
MADAL- JA KESKKORDSE VAHU KÄSIJÕATORUD PN 16**

**Portable equipment for projecting extinguishing agents  
supplied by fire fighting pumps - Portable foam  
equipment - Part 3: Low and medium expansion hand-  
held foam branchpipes PN 16**

**EESTI STANDARDI EESSÕNA****NATIONAL FOREWORD**

See Eesti standard EVS-EN 16712-3:2015 sisaldab Euroopa standardi EN 16712-3:2015 ingliskeelset teksti.	This Estonian standard EVS-EN 16712-3:2015 consists of the English text of the European standard EN 16712-3:2015.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 09.09.2015.	Date of Availability of the European standard is 09.09.2015.
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ICS 13.220.10

English Version

Portable equipment for projecting extinguishing agents  
supplied by fire fighting pumps - Portable foam equipment  
- Part 3: Low and medium expansion hand-held foam  
branchpipes PN 16

Équipement portable de projection d'agents  
d'extinction alimenté par des pompes à usage incendie  
- Equipements mousse portables - Partie 3 : Lances à  
mousse à main PN 16 bas et moyen foisonnement

Tragbare Geräte zum Ausbringen von Löschmitteln, die  
mit Feuerlöschpumpen gefördert werden - Tragbare  
Schaumgeräte - Teil 3: Schwer- und Mittelschaumrohre  
PN 16

This European Standard was approved by CEN on 1 August 2015.

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 16712-3:2015) has been prepared by Technical Committee CEN/TC 192 “Fire and Rescue Service Equipment”, the secretariat of which is held by BSI.

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 March 2016, and conflicting national standards shall be withdrawn at the latest by March 2016.

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.

EN 16712 consists of the following parts, under the general title “*Portable equipment for projecting extinguishing agents supplied by fire fighting pumps — Portable foam equipment*”:

- Part 1: Inductors PN 16;
- Part 2: Pick-up tubes;
- Part 3: Low and medium expansion hand-held foam branchpipes PN 16;
- Part 4: High expansion foam generators PN 16.

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.

## **Introduction**

Hand-held foam branchpipes are used to expand foam water solution by the addition of air and to project the foam onto a fire or fire risk.

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## 1 Scope

**1.1** This European Standard applies to hand-held foam branchpipes, and self-inducting foam branchpipes, for low and medium expansion foam used by fire and rescue services and defines their specification and test procedures.

NOTE In this European Standard, the term “branchpipe” also refers to “hand-held foam branchpipes”.

**1.2** This European Standard is not applicable to hand-held foam branchpipes which have been manufactured before its date of publication as European Standard.

## 2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

### 2.1

#### **handheld foam branchpipe**

hand-operated device in which the water foam solution is mixed with air to produce foam that is then expelled in the form of a jet

Note 1 to entry: The branchpipe may be equipped with a pressure gauge.

### 2.2

#### **combination handheld foam branchpipe**

handheld foam branchpipe capable of producing either low expansion foam or medium expansion foam

Note 1 to entry: The branchpipe may be equipped with a pressure gauge.

### 2.3

#### **pressures**

Note 1 to entry: Pressures are expressed in bar.

Note 2 to entry: 1 bar = 0,1 MPa ( $10^5$  Pa).

#### 2.3.1

##### **working pressure**

$p_1$

pressure measured at the inlet of the branchpipe

#### 2.3.2

##### **nominal pressure**

$p_N$

maximum working pressure measured at the inlet of the branchpipe

#### 2.3.3

##### **reference pressure**

$p_R$

pressure measured at the inlet of the branchpipe used for performance tests

#### 2.3.4

##### **test pressure**

$p_t$

static pressure used for leakage tests