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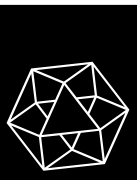

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I.S. EN 17450-1:2021

Fixed firefighting systems - Water mist components - Part 1: Product characteristics and test methods for strainer and filter components

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 17450-1

February 2021

ICS 13.220.20

English Version

Fixed firefighting systems - Water mist components - Part 1: Product characteristics and test methods for strainer and filter components

Installations fixes de lutte contre l'incendie - Systèmes à brouillard d'eau - Partie 1 : Caractéristiques de produit et méthodes d'essai pour les composants de crépines et de filtres

Ortsfeste Brandbekämpfungsanlagen - Bauteile für Feinsprüh-Löschanlagen - Teil 1: Anforderungen und Prüfverfahren für Siebe und Drahtgewebefilter

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Ref. No. EN 17450-1:2021 E

Contents

Page

European foreword ... 3

1 Scope ... 4

2 Normative references ... 4

3 Terms and definitions ... 4

4 Product characteristics ... 5
4.1 Water flow ... 5
4.2 Surface area of the filter element ... 5
4.3 Design pressure ... 5
4.4 Pressure loss ... 5
4.5 Strength of the component ... 5

5 Testing, assessment and sampling methods ... 5
5.1 General ... 5
5.1.1 Test conditions ... 5
5.1.2 Test samples ... 5
5.2 Operational tests ... 5
5.2.1 Water flow test ... 5
5.2.2 Surface area of the filter element test ... 6
5.2.3 Pressure loss test ... 6
5.2.4 Body strength test ... 6
5.2.5 Impact test ... 6
5.2.6 Filter element strength test ... 6

6 Marking and documentation ... 6
6.1 Product documentation ... 6
6.2 Marking ... 7

Annex A (informative) Test facilities ... 8

Bibliography ... 9

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European foreword

This document (EN 17450-1:2021) has been prepared by Technical Committee CEN/TC 191 “Fixed firefighting systems”, 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of an identical text or by endorsement, at the latest by August 2021, and conflicting national standards shall be withdrawn at the latest by August 2021.

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1 Scope

This document specifies product characteristics and test methods for strainer and filter components for water supply connections and pipe work in water mist systems. This document is applicable to strainers and filters with filtration grades up to 6 mm.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 14972-1, *Fixed firefighting systems - Water mist systems - Part 1: Design, installation, inspection and maintenance*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 14972-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

3.1
strainer
filtration equipment to retain larger particles with dimensions larger than 1 mm

3.2
filter
filtration equipment to retain small particles with dimensions of 1 mm or smaller

3.3
filter element
element inside a strainer or filter that collects the particles, e.g. a mesh

3.4
nominal cross section area
nominal cross section size
calculated cross section area on basis of the nominal diameter

3.5
pressure loss
differential pressure between inlet and outlet of the filter

3.6
grade of filtration
mesh size or the smallest opening of the filter/strainer

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