Valves for water supply - Fitness for purpose requirements and appropriate verification tests - Part 6: Hydrants

EESTI STANDARDIKESKUS
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NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 1074-6:2008 sisaldab Euroopa standardi EN 1074-6:2008 ingliskeelset teksti.	This Estonian standard EVS-EN 1074-6:2008 consists of the English text of the European standard EN 1074-6:2008.
Standard on kinnitatud Eesti Standardikeskuse 15.12.2008 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.	This standard is ratified with the order of Estonian Centre for Standardisation dated 15.12.2008 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.
Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 05.11.2008.	Date of Availability of the European standard text 05.11.2008.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

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Võtmesõnad: fire hydrants, fitness for purpos, hydrants, industrial fittings, operating requirements, pressure, specification (approval), specifications, strength of materials, testing, tightness, valves, water, water carriage, water distribution, water fittings, water supply

EUROPEAN STANDARD

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English Version

Valves for water supply - Fitness for purpose requirements and appropriate verification tests - Part 6: Hydrants

Robinetterie pour l'alimentation en eau - Prescriptions d'aptitude à l'emploi et vérifications s'y rapportant - Partie 6: Poteaux et bouches

Armaturen für die Wasserversorgung - Anforderungen an die Gebrauchstauglichkeit und deren Prüfung - Teil 6: Hydranten

This European Standard was approved by CEN on 25 September 2008.

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 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 Management Centre has the same status as the official versions.

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

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Contents

Foreword

This document (EN 1074-6:2008) has been prepared by Technical Committee CEN/TC 69 “Industrial valves”, 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 November 2008, and conflicting national standards shall be withdrawn at the latest by November 2008.

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 1074-6:2004.

The following technical changes were made to take into account the publication of EN 14339:2005 and EN 14384:2005:

— Clause 1 : deletion of the sentence stating that EN 1074-6 is a priority standard;

— Clause 3: addition of the definition of draining system depth;

— Clause 4: addition of a requirement on sealing material;

— Subclauses 5.1.4 and 5.2.3: deletion of pillar hydrants from Table 2 and addition of a reference to EN 14384:2005;

— Table 3: addition of draining system depth Pv.

EN 1074 consists of six parts:

— Part 1: General requirements;

— Part 2: Isolating valves;

— Part 3: Check valves;

— Part 4: Air valves;

— Part 5: Control valves;

— Part 6: Hydrants.

Part 1, in conjunction with the subsequent parts, lays down the general requirements and test procedures to be carried out in production and during the assessment of conformity of these valves (type tests). The detailed requirements, which depend on the types of valves, are defined in parts 2 to 6 of this European Standard.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

This update results from the publication of EN 14339:2005 and EN 14384:2005 which are harmonised under CPD. Thus EN 1074-6 cannot be a priority standard. As the test of EN 1074-6 are currently used by EN 14339:2005 and EN 14384:2005, the test values have been aligned with these European Standards to prevent any ambiguous interpretation.

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

1) this European Standard provides no information as to whether the product can 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

This European Standard defines the minimum fitness for purpose requirements for hydrants to be used in, or connected to, water supply pipe systems, above or below ground (see EN 805), carrying water intended for human consumption.

This European Standard specifies the design requirements, the performance requirements, and the conformity assessment method for hydrants, whatever their type, materials and functions. Where hydrants can be used for fire fighting, irrigation or other function, additional requirements can be given in other standards.

This part of EN 1074 deals with the requirements applicable to both underground and pillar hydrants, in sizes DN 65 to DN 150, and PFA up to 16 bar.

This part of EN 1074 does not give requirements for the outlets or their interface with the hydrants, since they are subject to national standards.

2 Normative references

The following referenced documents are indispensable for the application 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 558, *Industrial valves — Face-to-face and centre-to-face dimensions of metal valves for use in flanged pipe systems — PN and Class designated valves*

EN 681-1, *Elastomeric seals — Materials requirements for pipe joint seals used in water and drainage applications — Part 1: Vulcanized rubber*

EN 681-2, *Elastomeric seals — Materials requirements for pipe joint seals used in water and drainage applications — Part 2: Thermoplastic elastomers*

EN 681-3, *Elastomeric seals — Materials requirements for pipe joint seals used in water and drainage applications — Part 3: Cellular material of vulcanized rubber*

EN 681-4, *Elastomeric seals — Materials requirements for pipe joint seals used in water and drainage applications — Part 4: Cast polyurethane sealing elements*

EN 1074-1:2000, *Valves for water supply — Fitness for purpose requirements and appropriate verification tests — Part 1: General requirements*

EN 1074-2:2000, *Valves for water supply — Fitness for purpose requirements and appropriate verification tests — Part 2: Isolating valves*

EN 1074-3:2000, *Valves for water supply — Fitness for purpose requirements and appropriate verification tests — Part 3: Check valves*

EN 1092-2, *Flanges and their joints — Circular flanges for pipes, valves, fittings and accessories, PN designated — Part 2: Cast iron flanges*

EN 1267:1999, *Valves — Test of flow resistance using water as test fluid*

EN 12266-1:2003, *Industrial valves — Testing of valves — Part 1: Pressure tests, test procedures and acceptance criteria — Mandatory requirements*

EN 14384:2005, *Pillar fire hydrants*