EESTI STANDARD

EVS-EN 14420-7:2005+A1:2007

Hose fittings with clamp units - Part 7: Cam locking couplings

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EESTI STANDARDIKESKUS

EESTI STANDARDI EESSÕNA **NATIONAL FOREWORD**

Käesolev Eesti standard EVS-EN 14420-7:2005+A1:2007 sisaldab Euroopa standardi EN 14420-7:2004+A1:2007 ingliskeelset teksti. Käesolev dokument on jõustatud 28.02.2007 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN 14420-7:2005+A1:2007 consists of the English text of the European standard EN 14420-7:2004+A1:2007. This document is endorsed on 28.02.2007 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.

Käsitlusala: This document details the design, materials and dimensions for cam locking couplings that serve as the link between hoses and connections to transport liquids, solids and gases, except liquid gas and steam. The couplings are capable of operating the pressure range − 0,8 bar to !16" bar working pressure in a working temperature range of − 20 °C up to + 65 °C.	**Scope:** This document details the design, materials and dimensions for cam locking couplings that serve as the link between hoses and connections to transport liquids, solids and gases, except liquid gas and steam. The couplings are capable of operating the pressure range − 0,8 bar to !16" bar working pressure in a working temperature range of − 20 °C up to + 65 °C.

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Võtmesõnad: fluid equipment, hose clips, hose connectors, hose fittings, hydraulic equipment, levers, marking, materials, measurement, pipe connections, pipe fittings, pipelines, specification (approval), specifications, testing, tolerances, tolerances (measurement), valves

EUROPEAN STANDARD

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English Version

Hose fittings with clamp units - Part 8: Symmetrical half coupling (Guillemin system)

Raccords pour flexibles avec demi-coquille - Partie 8 : Demi raccords symétriques (système Guillemin)

Schlaucharmaturen mit Klemmfassungen - Teil 8: Symmetrische Kupplungen (System Guillemin)

This European Standard was approved by CEN on 30 September 2004 and includes Amendment 1 approved by CEN on 13 December 2006.

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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.

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

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Contents

Foreword

This document (EN 14420-8:2004+A1:2007) has been prepared by Technical Committee CEN/TC 218 “Rubber and plastics hoses and hose assemblies”, 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 July 2007, and conflicting national standards shall be withdrawn at the latest by July 2007.

This document includes Amendment 1, approved by CEN on 2006-12-13.

The start and finish of text introduced or altered by amendment is indicated in the text by tags ▌A1⟩ ⟨A1▌.

EN 14420 consists at the time of publication of the following parts:

EN 14420-1, *Hose fittings with clamp units — Part 1: Requirements, survey, designation and testing*

EN 14420-2, *Hose fittings with clamp units — Part 2: Hose side parts of hose tail*

EN 14420-3, *Hose fittings with clamp units — Part 3: Clamp units, bolted or pinned*

EN 14420-4, *Hose fittings with clamp units — Part 4: Flange connections*

EN 14420-5, *Hose fittings with clamp units — Part 5: Threaded connections*

EN 14420-6, *Hose fittings with clamp units — Part 6: TW tank truck couplings*

EN 14420-7, *Hose fittings with clamp units — Part 7: Cam locking couplings*

EN 14420-8, *Hose fittings with clamp units — Part 8: Symmetrical half coupling (Guillemin system)*

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

1 Scope

This document applies to hose fittings with symmetrical half couplings (Guillemin system), with mobile locking ring, for hose assemblies with a maximum working pressure of up to ⟩A1⟨ 16 ⟩A1⟨bar, with hose tails according to EN 14420-2 and clamp units according to EN 14420-3. Couplings in accordance with this document serve as link between hoses and connections to transport liquids, solids (e.g. powders, granules) except steam and liquid gas. It specifies dimensions, types of connections, quality of materials, marking requirements and testing requirements. The working temperature range is – 20 °C up to + 65 °C.

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 1706, *Aluminium and aluminium alloys — Castings — Chemical composition and mechanical properties*

EN 1982, *Copper and copper alloys — Ingots and castings*

EN 10083-2, *Quenched and tempered steels — Part 2: Technical delivery conditions for unalloyed steels*

EN 10088-1, *Stainless steels — Part 1: List of stainless steels*

EN 10213-4, *Technical delivery conditions for steel castings for pressure purposes — Part 4: Austenitic and austenitic-ferritic steel grades*

EN 14420-1, *Hose fittings with clamp units — Part 1: Requirements, survey, designation and testing*

EN 14420-2, *Hose fittings with clamp units — Part 2: Hose side parts of hose tail*

EN 14420-3, *Hose fittings with clamp units — Part 3: Clamp units, bolted or pinned*

EN 14420-4, *Hose fittings with clamp units — Part 4: Flange connections*

EN 14420-5, *Hose fittings with clamp units — Part 5: Threaded connections*

EN ISO 228-1, *Pipe threads where pressure-tight joints are not made on the threads — Part 1: Dimensions, tolerances and designation (ISO 228-1:2000)*

ISO 48, *Rubber, vulcanized or thermoplastic — Determination of hardness (Hardness between 10 IRHD and 100 IRHD)*

EN 22768-1, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*

EN 22768-2, *General tolerances — Part 2: Geometrical tolerances for features without individual tolerance indications*

3 Requirements

3.1 Pressures

Symmetrical half-couplings (Guillemin system), with mobile locking-ring, shall resist to the following pressures:

— Maximum working pressure = ⟩A1⟨ 16 ⟩A1⟨ bar

— Test pressure = ⟩A1⟨ 24 ⟩A1⟨bar

— Minimum burst pressure = ⟩A1⟨ 48 ⟩A1⟨ bar

NOTE 1 MPa = 10 bar.