



Irish Standard
I.S. EN 14420-7:2022

Version 1.01

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

I.S. EN 14420-7:2022 V1.01

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National Foreword

I.S. EN 14420-7:2022 V1.01 is the version of the NSAI adopted European document EN 14420-7:2022/AC:2023, *Hose fittings with clamp units - Part 7: Cam locking couplings*, including any Corrections, Amendments etc. to EN 14420-7:2022/AC:2023.

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In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 14420-7/AC

October 2023

ICS 23.040.70

English Version

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

Raccords pour flexibles avec demi-coquille - Partie 7 :
Raccords à cames

Schlaucharmaturen mit Klemmfassungen - Teil 7:
Hebelarmkupplungen

This corrigendum becomes effective on 25 October 2023 for incorporation in the official English version of the EN.



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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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1 Modification to Table 8

In the table header, second column, replace “N/mm” with “Nm” :

Table 8 — Torques

Nominal size DN	Maximum torque max. Nm	Compression min. mm
20	6,8	0,762
25	7,9	0,762
32	11,3	0,635
40	11,3	0,635
50	11,3	0,635
65	11,3	0,635
80	13,0	0,635
100	14,7	0,635

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NORME EUROPÉENNE
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EN 14420-7

August 2022

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Supersedes EN 14420-7:2013

English Version

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couplings

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This European Standard was approved by CEN on 24 July 2022.

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

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European foreword

This document (EN 14420-7:2022) 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 February 2023, and conflicting national standards shall be withdrawn at the latest by February 2023.

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

This document supersedes EN 14420-7:2013.

In comparison to EN 14420-7:2013, the following changes have been made:

- In Clause 2, the Normative references have been updated;
- The Scope of the document has been changed.

The EN 14420 series, *Hose fittings with clamp units*, consists of the following parts:

- *Part 1: Requirements, types of fixing and connection, designation and testing*
- *Part 2: Hose side parts of hose tail*
- *Part 3: Clamp units, bolted or pinned*
- *Part 4: Flange connections*
- *Part 5: Threaded connections*
- *Part 6: TW tank truck couplings*
- *Part 7: Cam locking couplings*
- *Part 8: Symmetrical half coupling (Guillemin system)*

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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Introduction

Cam locking couplings are manufactured worldwide according to the American “military specification” MIL-C-27487. This American standard fixes the coupling side in a limited way, but not the connection side. Other parts like levers, bolts, ring and gaskets are not standardized.

1 Scope

This document specifies the design, materials, dimensions and marking requirements for cam locking couplings that serve as the link between hoses and connections to transport liquids, solids and gases, except liquid gas and steam.

For all sizes of aluminium cast material couplings and for all couplings of size DN 100, the pressure range is from -0,8 bar to 10 bar in the working temperature range from -20 °C to +65 °C. All other couplings according to this document are capable of operating within the pressure range from 0,8 bar¹ to 16 bar in the working temperature range from -20 °C to +65 °C.

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 755-2, *Aluminium and aluminium alloys - Extruded rod/bar, tube and profiles - Part 2: Mechanical properties*

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

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

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

EN 10213, *Steel castings for pressure purposes*

EN 10226-1, *Pipe threads where pressure tight joints are made on the threads - Part 1: Taper external threads and parallel internal threads - Dimensions, tolerances and designation*

EN 12420, *Copper and copper alloys - Forgings*

EN 14420-1:2013, *Hose fittings with clamp units - Part 1: Requirements, types of fixing and connection, designation and testing*

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

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

EN 22768-1, *General tolerances - Part 1: Tolerances for linear and angular dimensions without individual tolerance indications (ISO 2768-1)*

EN 22768-2², *General tolerances - Part 2: Geometrical tolerances for features without individual tolerance indications (ISO 2768-2)*

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)*

¹ 1 bar = 0,1 MPa.

² EN 22768-2 has been withdrawn and replaced by EN ISO 22081.

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