

Hose fittings with clamp units —

Part 8: Symmetrical half coupling (Guillemin system)

ICS 23.040.70

National foreword

This British Standard is the UK implementation of EN 14420-8:2004+A1:2007. It supersedes BS EN 14420-8:2004 which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to CEN text carry the number of the CEN amendment. For example, text altered by CEN amendment A1 is indicated by A1 A1.

The UK participation in its preparation was entrusted to Technical Committee PRI/66, Rubber and plastics tubing, hoses and hose assemblies.

A list of organizations represented on this committee can be obtained on request to its secretary.

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 3 October 2005

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ISBN 978 0 580 69463 9

Amendments/corrigenda issued since publication

Date	Comments
31 October 2009	Implementation of CEN amendment A1:2007

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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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of an identical text or by endorsement, at the latest by July 2007, and conflicting national standards shall be withdrawn at the latest by July 2007.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** and **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)*

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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 $\boxed{A_1}$ 16 $\langle A_1 \rangle$ 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 = $\boxed{A_1}$ 16 $\langle A_1 \rangle$ bar
- Test pressure = $\boxed{A_1}$ 24 $\langle A_1 \rangle$ bar
- Minimum burst pressure = $\boxed{A_1}$ 48 $\langle A_1 \rangle$ bar

NOTE 1 MPa = 10 bar.