



SLOVENSKI STANDARD

SIST EN 14420-8:2005

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Cevni fitingi z objemkami - 8. del: Simetrična spojka (sistem Guillemin)

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

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

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

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Ta slovenski standard je istoveten z: **EN 14420-8:2004**

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ICS:

23.040.60 Prirobnice, oglavki in spojni elementi Flanges, couplings and joints

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 14420-8

November 2004

ICS 23.040.70

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.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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

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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

Contents

	page
Foreword.....	3
1 Scope	4
2 Normative references	4
3 Requirements	4
3.1 Pressures.....	4
3.2 Temperatures	5
4 Components.....	5
5 Dimensions.....	6
6 Types of connections.....	8
7 Designation	9
8 Materials	9
8.1 General.....	9
8.2 Coupling components.....	9
9 Marking	10
10 Type approval testing and quality control	10
Annex A (normative) Gauge for symmetrical half couplings (Guillemin system)	11
Bibliography.....	15

SIST EN 14420-8:2005

<https://standards.iteh.ai/catalog/standards/sist/c68216a2-d797-410c-91cc-01c06f90cfâ1/sist-en-14420-8-2005>

Foreword

This document (EN 14420-8:2004) 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 May 2005, and conflicting national standards shall be withdrawn at the latest by May 2005.

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 to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

EN 14420-8:2004 (E)**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 25 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 = 10 bar
- Test pressure = 30 bar
- Minimum burst pressure = 50 bar

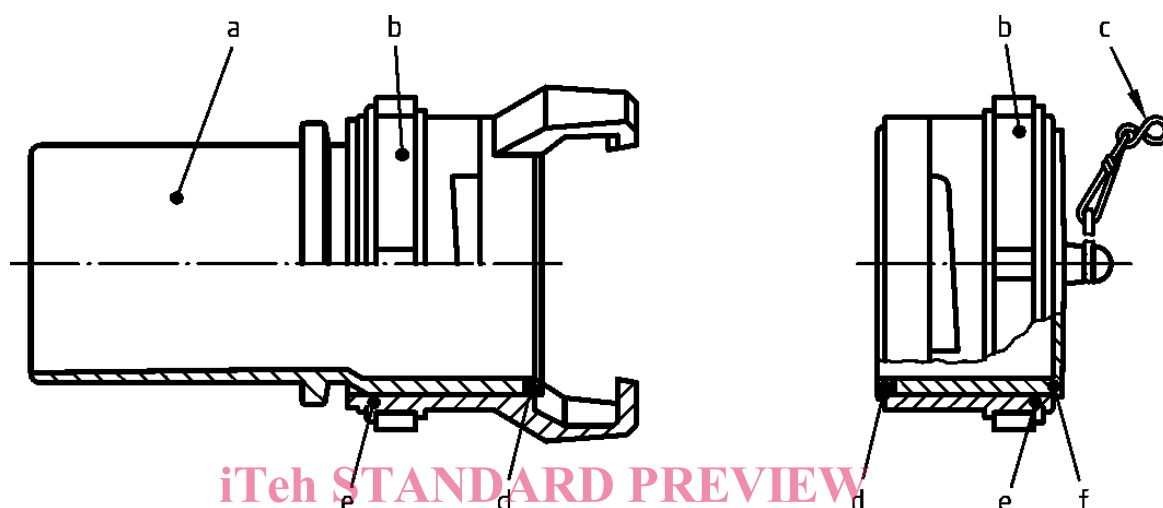
NOTE 1 MPa = 10 bar.

3.2 Temperatures

Range of working temperatures of couplings equipped with NBR rubber gasket: - 20 °C to + 65 °C. Outside of these limits, consult the manufacturer.

4 Components

Shown as samples are: a coupling with hose tail — Part SGD and a plug — Part SGB.



Key

- a Hose tail
- b Locking ring
- c Chain
- d Gasket
- e Retainer ring
- f Body of plug

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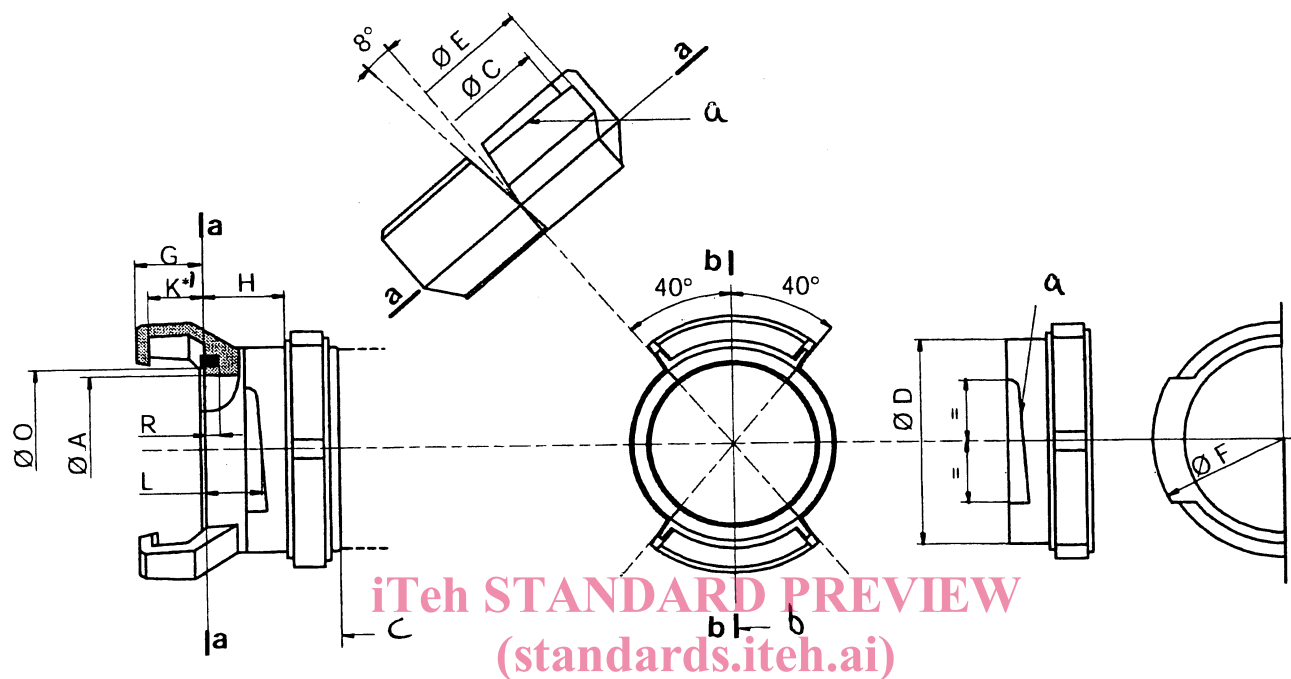
Figure 1 — Coupling with hose tail — Part SGD and plug — Part SGB

EN 14420-8:2004 (E)

5 Dimensions

Details, which are not fixed, shall be chosen suitably by the manufacturer.

For gauges see Annex A.



Key

- a Helix right pitch P
- b Medial plan
- c According to EN 14420-4

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For H and G see Table 1.

*) K is measured in the plan BB

Figure 2 — General dimensions

Table 1 — General dimensions

Dimensions in millimetres

DN	A	C	D	E	F	G	H	K	L	O	P	R
						max.	min.					
20	19 $\begin{smallmatrix} +1 \\ +0 \end{smallmatrix}$	32	31	38	36,5	14,5	14,5	10 $\pm 0,1$	8,7 $\pm 0,1$	23	6	2,5
25	23 $\begin{smallmatrix} +2 \\ +0 \end{smallmatrix}$	37,5	36,5	44	42,5	15	15	10 $\pm 0,1$	8,7 $\pm 0,1$	27,25	6	3
32	27,5 $\begin{smallmatrix} +2,5 \\ +0 \end{smallmatrix}$	42,5	41,5	50	48	15	15	11 $\pm 0,1$	9,7 $\pm 0,1$	32	6	3,5
40	38 $\begin{smallmatrix} +2 \\ +0 \end{smallmatrix}$	55	54	63	61	19,5	19,5	14,5 $\pm 0,1$	13,4 $\pm 0,1$	43	8	4
50	48 $\begin{smallmatrix} +2 \\ +0 \end{smallmatrix}$	69	68	78	76	24,5	24,5	18,5 $\pm 0,1$	17,4 $\pm 0,1$	54	8	4
65	62 $\begin{smallmatrix} +3 \\ +0 \end{smallmatrix}$	84	83	94	92	24	24	17 $\pm 0,15$	16 $\pm 0,15$	69	10	5
80	78 $\begin{smallmatrix} +2 \\ +0 \end{smallmatrix}$	103	101	114,5	111,5	28	28	20 $\pm 0,15$	19 $\pm 0,15$	85	10	5
100	97 $\begin{smallmatrix} +3 \\ +0 \end{smallmatrix}$	123	121	136	133	30	30	21 $\pm 0,15$	20 $\pm 0,15$	103,5	10	6

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