



SLOVENSKI STANDARD

SIST EN 14420-5:2005

01-marec-2005

Cevni fitingi z objemkami - 5. del: Navojni priključki

Hose fittings with clamp units - Part 5: Threaded connections

Schlaucharmaturen mit Klemmfassungen - Teil 5: Gewindeanschlüsse

Raccords pour flexibles avec demi-coquille - Partie 5: Raccordements filetés

Ta slovenski standard je istoveten z: **EN 14420-5:2004**

[SIST EN 14420-5:2005](https://standards.iteh.ai/catalog/standards/sist/8aaf4574-32f3-4751-8c7f-b25f70fa440f/sist-en-14420-5-2005)

<https://standards.iteh.ai/catalog/standards/sist/8aaf4574-32f3-4751-8c7f-b25f70fa440f/sist-en-14420-5-2005>

ICS:

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

SIST EN 14420-5:2005

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 14420-5:2005](#)

<https://standards.iteh.ai/catalog/standards/sist/8aaf4574-32f3-4751-8c7f-b25f70fa440f/sist-en-14420-5-2005>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 14420-5

November 2004

ICS 23.040.70

English version

Hose fittings with clamp units - Part 5: Threaded connections

Raccords pour flexibles avec demi-coquille - Partie 5 :
Raccordements filetés

Schlaucharmaturen mit Klemmfassungen - Teil 5:
Gewindeanschlüsse

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.

STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 14420-5:2005
<https://standards.iteh.ai/catalog/standards/sist/8aaf4574-32f3-4751-8c7f-b25f70fa440f/sist-en-14420-5-2005>



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 Hose fitting with union nut and clamp fitting with male pipe thread	5
4 Dimensions, designations	7
4.1 General.....	7
4.2 Hose tail with male pipe thread	7
4.3 Hose tail with union nuts	9
4.4 Union nuts	11
4.5 Sealing rings	14
5 Surface finish	14
6 Materials	15
6.1 General.....	15
6.2 Hose tails and union nuts	15
6.3 Balls	15
6.4 Sealing rings	16
7 Marking	16
8 Type approval testing and quality control	16
Bibliography.....	17

iTech STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 14420-5:2005](https://standards.iteh.ai/catalog/standards/sist/8aaf4574-32f3-4751-8c7f-b25f70fa440f/sist-en-14420-5-2005)

<https://standards.iteh.ai/catalog/standards/sist/8aaf4574-32f3-4751-8c7f-b25f70fa440f/sist-en-14420-5-2005>

Foreword

This document (EN 14420-5:2004) 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 14420-5:2004 (E)**1 Scope**

This document specifies requirements for hose fittings with clamp units according to EN 14420-1 with union nut and pipe thread according to EN ISO 228-1 as well as for hose tails according to EN 14420-2 with male pipe thread according to EN ISO 228-1.

Maximum working pressure 25 bar, maximum working temperature 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 1982, *Copper and copper alloys — Ingots and castings*

EN 10025, *Hotrolled products of non-alloy structural steels — Technical delivery conditions*

EN 10087, *Free-cutting steels — Technical delivery conditions for semi-finished products, hot-rolled bars and rods*

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 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 10243-1, *Steel die forgings — Tolerances on dimensions — Part 1: Drop and vertical press forgings*

EN 10243-2, *Steel die forgings — Tolerances on dimensions — Part 2: Upset forging made on horizontal forging machines*

EN 10283, *Corrosion resistant steel castings*

EN 12164, *Copper and copper alloys — Rod for free machining purposes*

EN 12420, *Copper and copper alloys — Forgings*

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 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)*

EN ISO 683-17, *Heat-treated steels, alloy steels and free-cutting steels — Part 17: Ball and roller bearing steels (ISO 683-17:1999)*

EN ISO 4042, *Fasteners — Electroplated coatings (ISO 4042:1999)*

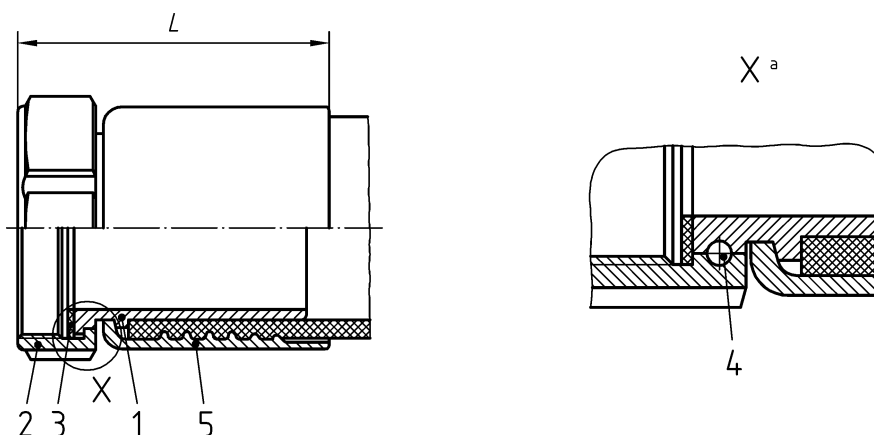
EN 22768-1, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications (ISO 2768-1:1989)*

EN 22768-2, *General tolerances — Part 2: Geometrical tolerances for features without individual tolerance indications (ISO 2768-2:1989)*

3 Hose fitting with union nut and clamp fitting with male pipe thread

These hose fittings shall be in accordance with Figures 1 to 3 and Tables 1 and 2.

Form G



Key

For 1, 2, 3, 4 and 5 see Table 1

^a Only at nominal size DN 100

iTeh STANDARD PREVIEW
Figure 1 — Hose fitting with union nut
(standards.iteh.ai)

Table 1 — Parts list

Item No	Designation	Remark
1	Hose tail	according to 4.3
2	Union nut	according to 4.4
3	Seal ring	according to 4.5
4	Ball	according to 4.4
5	Clamp unit	according to EN 14420-3

NOTE 1 Designation of a complete hose fitting see EN 14420-1.

EN 14420-5:2004 (E)

Form GA

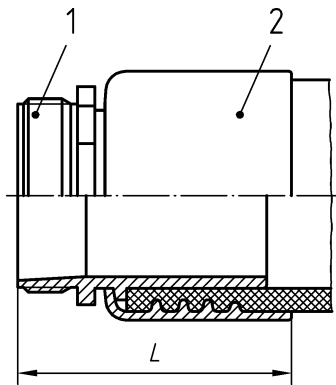


Figure 2 — Hose fitting with male pipe thread

Table 2 — Parts list

Item No	Designation	Remark
1	Hose tail	according to 4.2
2	Clamp unit	according to EN 14420-3

NOTE 2 Designation of a complete hose fitting see EN 14420-1.

Table 3 — End-to-end dimensions and weights

Nominal size DN	Thread according to EN ISO 228-1 inner/outer	End-to-end dimension L mm min		Weight ^b (mass) Form G/GA kg ≈ for	
		inner thread	outer thread	inner thread	outer thread
15 ^a	G 1/2/G 1/2 A	66	71	0,20	0,20
	G 3/4	66		0,20	
20 ^a	G 3/4/G 3/4 A	67	70	0,20	0,30
	G 1	70		0,25	
25	G 1/G 1 A	67	70	0,30	0,30
	G 1 1/4	69		0,30	
32	G 1 1/4/G 1 1/4 A	70	71	0,35	0,40
	G 1 1/2	74		0,40	
40	G 1 1/2/G 1 1/2 A	74	75	0,45	0,50
	G 2/G 2 A	79	76	0,60	0,55
50	G 2/G 2 A	84	83	0,75	0,80
	G 2 1/2	85		0,90	
65	G 2 1/2/G 2 1/2 A	104	104	1,15	1,30
	G 3/G 3 A	107	105	1,60	1,40
80	G 3/G 3 A	110	109	1,65	1,60
100	G 4/G 4 A	142	135	3,90	3,20

^a At DN 15 and DN 20 threads according to EN 10226-1 may be agreed upon.^b The weights apply for clamp units in aluminium. They may deviate from the value given depending on the type of hose tail.

4 Dimensions, designations

4.1 General

The parts shall comply with the dimensions in the tables. They do not have to comply with the figures as drawn.

Details not specified are at the discretion of the manufacturer with respect to the intended use.

Tolerances for dimensions without specified tolerances

- Dimensions for machined parts: general tolerances EN 22768-mK
- Dimensions for copper-zinc alloy

Die-forgings in wrought copper alloy according to EN 12420

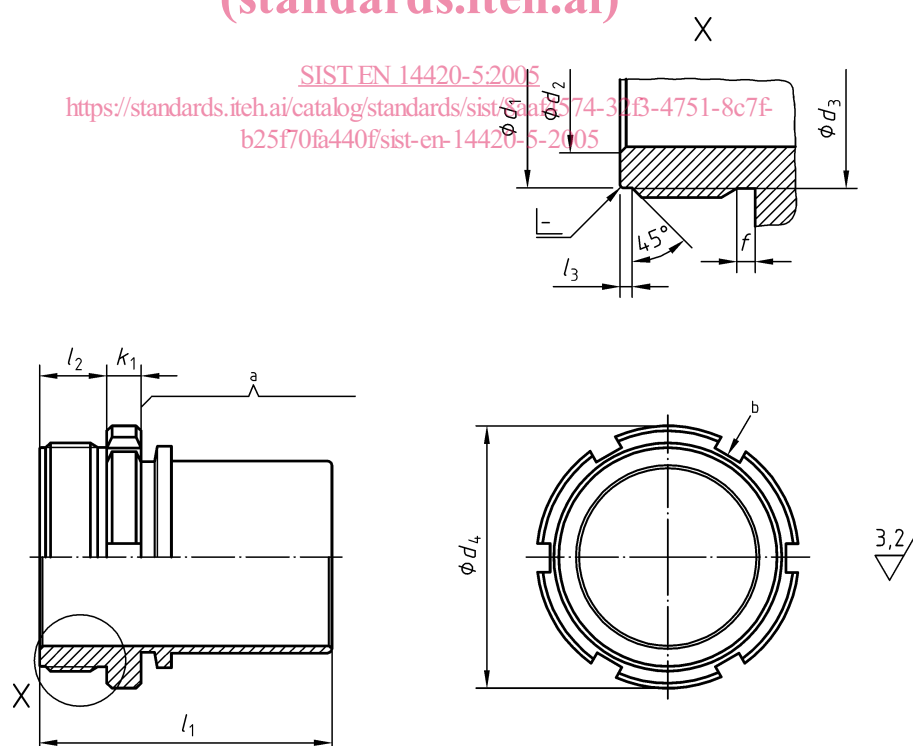
Castings should be in accordance with DIN 1687-3

Dimensions for stainless steel

Die-forgings according to EN 10243-1 and EN 10243-2

4.2 Hose tail with male pipe thread

iTeH STANDARD PREVIEW
(standards.iteh.ai)



a Hose side part of tail according to EN 14420-2

b Slotted or bored

Figure 3 — Hose tail made of stainless steel or non-alloyed steel