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**Cevni fitingi z objemkami - 2. del: Stranski cevni nastavki**

Hose fittings with clamp units - Part 2: Hose side parts of hose tail

Schlaucharmaturen mit Klemmfassungen - Teil 2: Schlauchseitige Stutzenteile

Raccords pour flexibles avec demi-coquille - Partie 2: Douilles pour flexibles

**Ta slovenski standard je istoveten z: EN 14420-2:2004**[SIST EN 14420-2:2005](https://standards.iteh.ai/catalog/standards/sist/66df98f1-67f3-462a-9f4a-7ec294fb7561/sist-en-14420-2-2005)<https://standards.iteh.ai/catalog/standards/sist/66df98f1-67f3-462a-9f4a-7ec294fb7561/sist-en-14420-2-2005>**ICS:**

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

**SIST EN 14420-2:2005****en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 14420-2**

November 2004

ICS 23.040.70

English version

## Hose fittings with clamp units - Part 2: Hose side parts of hose tail

Raccords pour flexibles avec demi-coquille - Partie 2:  
Douilles pour flexibles

Schlaucharmaturen mit Klemmfassungen - Teil 2:  
Schlauchseitige Stutzenteile

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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## Foreword

This document (EN 14420-2:2004) 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 14420-2:2004 (E)****1 Scope**

This document specifies requirements for the hose tail of hose fittings according to EN 14420-1 for use with clamp units according to EN 14420-3.

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, *Hot rolled 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 10283, *Corrosion resistant steel castings*

EN 12420, *Copper and copper alloys — Forgings*

EN ISO 4287, *Geometrical product specifications (GPS) — Surface texture: Profile method — Terms, definitions and surface texture parameters (ISO 4287:1997)*

**3 Requirements****3.1 Dimensions**

Types shall be chosen by the manufacturer depending on the manufacturing process. Details not specified in this document are at the discretion of the manufacturer appropriately.

Grooves are admissible on the outside surface of tails Type A, Type B or Type C, provided that their outside diameter is not less than  $d_4$  (see Type B).

Serration is admissible on the outside surface of tails of Type A and Type B of nominal size DN 15 to DN 80, whose outside diameter shall not exceed  $d_5$  (see Type B). For nominal sizes DN 100 to DN 200 serrations are admissible with outside diameter not more than 2,2 mm above  $d_6$ .

Grooves and ribs should be manufactured without sharp edges.

**Type A**  
DN 15 to DN 200

**Type B<sup>1)</sup>**  
DN 15 to DN 80

**Type C**  
DN 100 to DN 150

Inner contour cylindrical or conical  
at the option of the manufacturer.

Other dimensions and specifications  
as type A

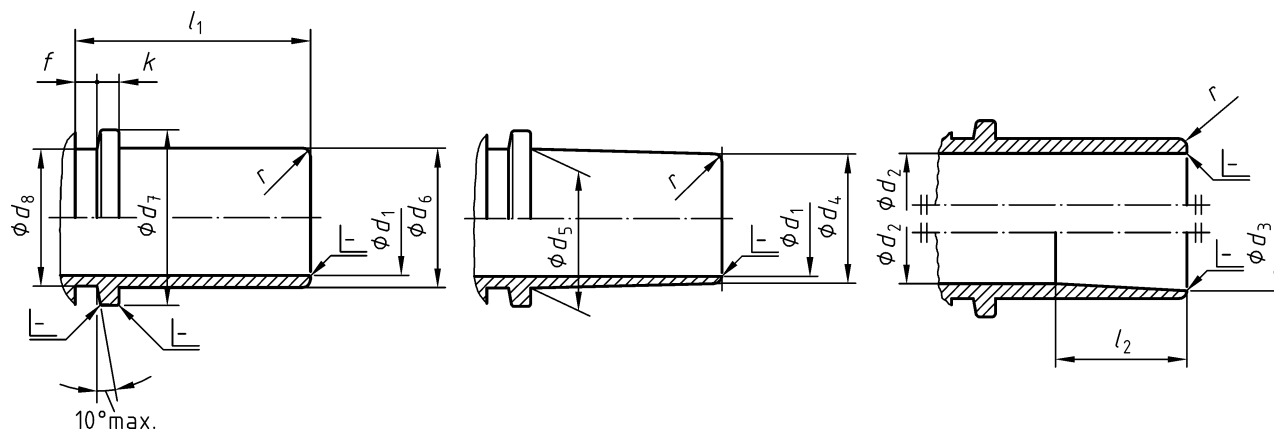


Figure 1 — Hose side parts of hose tail

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1) Type B not applicable to clamp unit S according to EN 14420-3.

Table 1 — Dimensions for hose side parts of tail

Dimensions in millimetres

Nominal size DN	Type	Inside diameter of hose		$d_1$	$d_2$	$d_3$	$d_4$	$d_5$	$d_6$	$d_7$	$d_8$	$f$	$k$	$l_1$	$l_2$	$r$			
		Tolerances	Tolerances	Tolerances	Tolerances	Tolerances	Tolerances	Tolerances	Tolerances	Tolerances	Tolerances	Tolerances	Tolerances	Tolerances	Tolerances	Tolerances	Tolerances		
15	A	-	13	9	0 -1	-	12,2	-	-	13,4	19	4	4	42	-	1,5			
20			19	15			18,2			19,4	26								
25			25	21			24 <sup>a</sup>			26,6 <sup>a</sup>	25,4						32		
32			32	28			31 <sup>a</sup>			33,6 <sup>a</sup>	32,4						39		
40		B	38	33,5	± 0,5		37,8	0 -0,8	38,4	45	0 -1	38	± 0,1	4,5			4,5	49	
50			50	45,5			49,5		50,4	58									
65			51	58,5			50,5		53	51,4									
			63				62,5		65,5	63,4		73							
80			75	70,5			74,5		77,4	75,4		85							
			76				75,5		78,4	76,4									
100	C	100	94	90	94	-	100,3	110	-	100	± 0,2	8	7,5	96	95				
150		101,5			101,8		150,1			164									
		150	140		131		140	150,1		164						150	13	10	166
200		-	200		190		+0,5 -2,5	-		-						200	219	+0 -2	200

<sup>a</sup> At DN 25 and DN 32 dimensions  $d_4$  and  $d_5$  are given as limiting dimensions for grooves and ribs for tails type A

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### 3.2 Surface finish

Shanks shall be machined unless the surface roughness parameter  $R_a$  according to EN ISO 4287 is less than 3,2  $\mu\text{m}$ .

If required, sufficient electrical conductivity to the hose shall be ensured. Details are to be agreed between contracting parties.

## 4 Materials

The following materials shall be used:

#### — Non-alloyed steels

S235JRG2	material number 1.0038 according to EN 10025
S355J0 (former St52-3U)	material number 1.0553 according to EN 10025
S355J2G3 (former St52-3N)	material number 1.0570 according to EN 10025
P 235T	material number 1.0254 according to EN 10025
11 SMnPb 30	material number 1.0718 according to EN 10087

#### — Stainless steels

X5CrNi18-10	material number 1.4301 according to EN 10088-1
X5CrNiMo17-12-2	material number 1.4401 according to EN 10088-1
X2CrNiMo17-12-2	material number 1.4404 according to EN 10088-1
X6CrNiTi18-10	material number 1.4541 according to EN 10088-1
X6CrNiMoTi17-12-2	material number 1.4571 according to EN 10088-1
G5CrNiMo19-11-2	material number 1.4408 according to EN 10213-4
G5CrNiMoNb19-11-12	material number 1.4581 according to EN 10213-4
GX5CrNiMo19-11-2	material number 1.4408 according to EN 10283

#### — Copper-zinc alloys

CuZn39Pb3	material number CW614N according to EN 12420
CuZn40Pb2	material number CW617N according to EN 12420
GK-CuZn37Pb	material number CC754S according to EN 1982

#### — Copper-tin alloy

CuSn5Zn5Pb5	material number CC491 according to EN 1982
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## 5 Marking

The hose side parts of the hose tail shall be marked legibly and permanently as far as possible with the following information:

- EN 14420-2;
- manufacturers name or trademark;
- type and nominal size;
- material number.