



# SLOVENSKI STANDARD

## SIST EN 16293:2020

01-september-2020

Nadomešča:  
SIST EN 16293:2013

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**Embalaža - Steklena embalaža - Globoka grla BVS za nepeneča vina**

Packaging - Glass Packaging - Deep BVS finishes for still wines

Verpackung - Verpackungsglas - BVS Mündungen hoch für stille weine

Emballage - Emballages en verre - Bagues BVS hautes pour vins tranquilles  
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**Ta slovenski standard je istoveten z: EN 16293:2020**

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**ICS:**

55.100	Steklenice. Lonci. Kozarci	Bottles. Pots. Jars
67.160.10	Alkoholne pijače	Alcoholic beverages

**SIST EN 16293:2020**

**en,fr,de**

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EUROPEAN STANDARD

EN 16293

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2020

ICS 55.100

Supersedes EN 16293:2013

English Version

## Packaging - Glass Packaging - Deep BVS finishes for still wines

Emballage - Emballages en verre - Bagues BVS hautes  
pour vins tranquilles

Verpackung - Verpackungen aus Glas - Tiefe BVS-  
Mundstücke für stille Weine

This European Standard was approved by CEN on 17 May 2020.

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

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

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

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## European foreword

This document (EN 16293:2020) has been prepared by Technical Committee CEN/TC 261 "Packaging", the secretariat of which is held by AFNOR.

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 December 2020, and conflicting national standards shall be withdrawn at the latest by December 2020.

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 16293:2013.

The essential modifications in this document as compared to the previous version have been brought in the following sections:

- Introduction of the mandatory Clause 2. Normative references (no normative references are listed).
- New numbering of all clauses from Clause 1.
- In Clause 3. Terms and definitions: modification of definition 3.1 deep BVS finish.
- Addition of Clause 4. Designation.
- Renaming of Clause 3. Requirements in Clause 5. Recommendations, and introducing the relevant changes in the text.
- In Clause 6. Constructions and dimensions of deep BVS finishes: addition of Note 3 and deletion of key c in Table 1.
- In Clause 8. Construction for sealing surface and bore entrance profile, Figure 5:
  - addition of the specified gap of 0/+0,2 mm on the guide-ring external diameter;
  - introduction of a minimum value in addition to the existing maximum value for the sealing surface: 0,5 -1,0 mm.
- In Clause 9. Construction of transfer bead: addition of a paragraph after Figure 6.
- In Clause 11. BVS finishes — Dimensions Y and X: deletion of the ovality tolerance notion in Table 4 and clarification on how to use the tolerance on Y and  $Y_{MEAN}$ .
- In Clause 12. Control of bottle and neck verticality: rewording of paragraph to introduce requirements.
- Addition of Annex A (normative) Parnaby type gauge.
- Update of the Bibliography section.
- Many editorial changes in the text as well as in the figures.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

EN 16293:2020(E)

## Introduction

Efficient packaging is of great importance for the distribution and the protection of goods as insufficient or inappropriate packaging can lead to damage or wastage of the contents of the pack.

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## 1 Scope

This document specifies dimensions of a series of deep screw finishes for the closure of wines with a CO<sub>2</sub> content below 1,2 g per litre.

NOTE Carbonation  $\geq 1,2$  g/l CO<sub>2</sub> requires a suitable container and closure agreed between the glass maker, closure maker and packer/filler.

## 2 Normative references

There are no normative references in this document.

## 3 Terms and definitions

For the purposes of this document, the following term and definition apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

### 3.1

#### deep BVS finish

neck finish designed to receive a screw cap equipped with a tamper evident skirt

## 4 Designation

The finish can be defined successively by its name (BVS), the diameter (in mm), the type (H) and the height of the closure (in mm), for example BVS 28 H 44, BVS 30 H 60.

## 5 Recommendations

Container verticality should be controlled as specified in Clause 12 "Control of bottle and neck verticality".

During capping, when changing between different batches of bottles conforming to this document or different batches of caps, it is necessary to verify the setting of the capping equipment.

## 6 Constructions and dimensions of deep BVS finishes

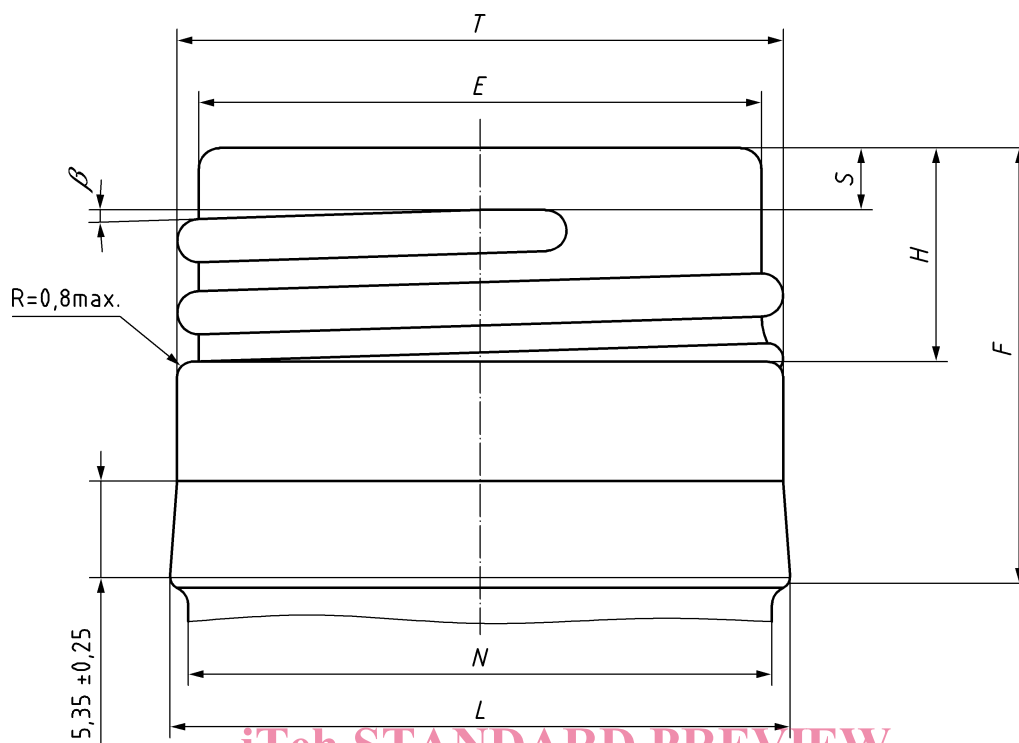
The constructions of deep BVS finishes shall be as given in the following figures:

- Figure 1: Constructions and dimensions
- Figure 2: Optional finish with additional support bead
- Figure 3: Optional take-out groove

The dimensions of deep BVS finishes shall be as given in the following tables:

- Table 1 – Dimensions for finishes type BVS
- Table 4 – Dimensions Y and X for finishes type BVS

Dimensions in millimetres

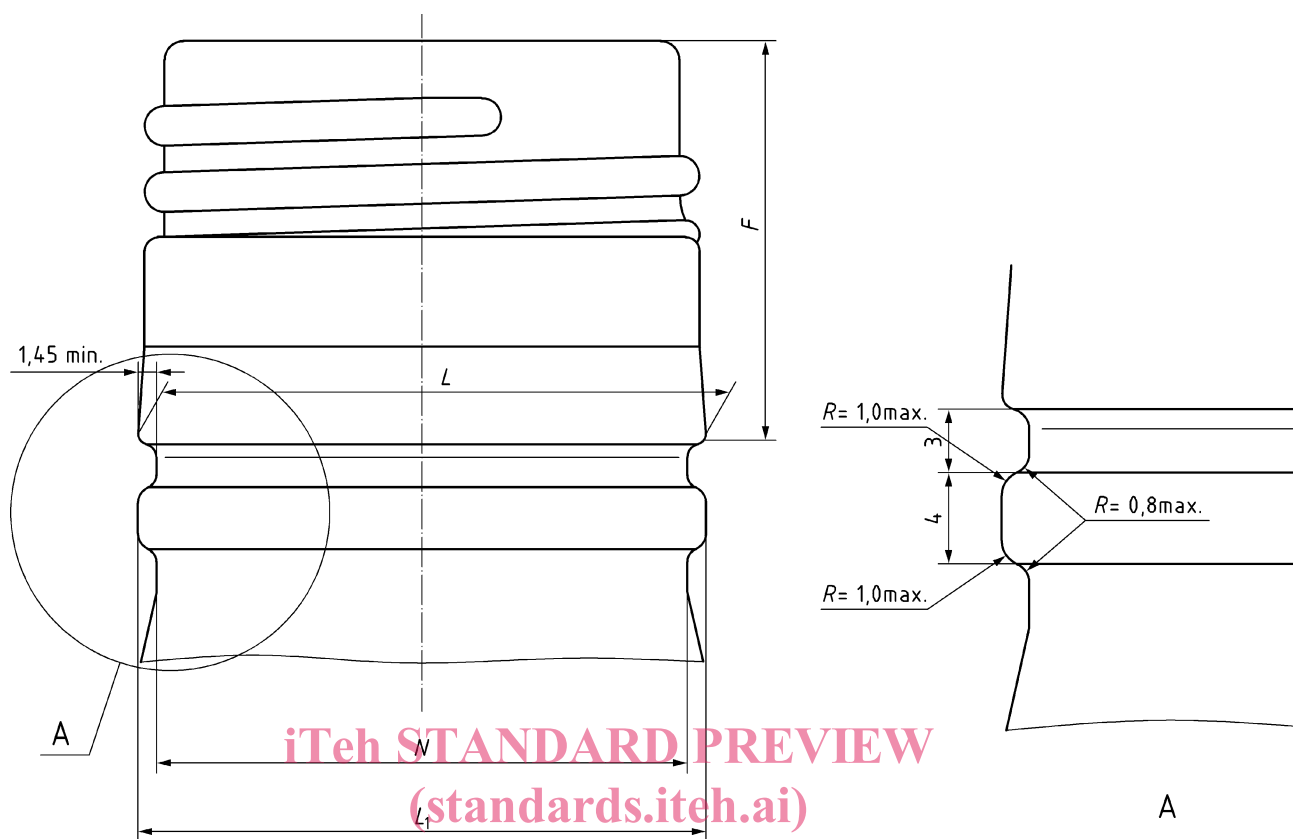
**Key**

- $\beta$  helix angle, or angle of cutter index
- $E$  wall diameter of threaded finish
- $F$  crimping edge, vertical height, threaded finishes
- $H$  vertical height from top of finish to bead
- $L$  locking bead diameter
- $N$  neck (under bead) diameter
- $S$  start of thread position from sealing surface to intersection of thread flank
- $T$  thread diameter

**Figure 1 — Constructions and dimensions**



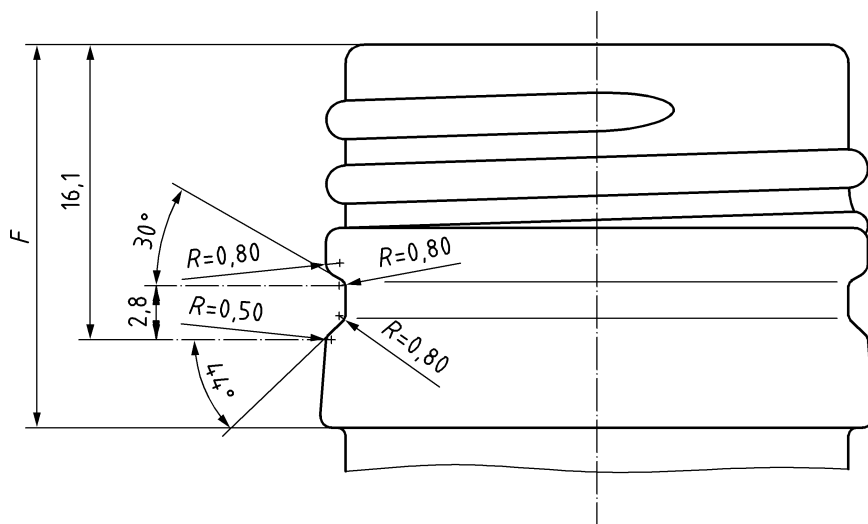
Dimensions in millimetres

**Key**

- $F$  crimping edge, vertical height, threaded finishes
- $N$  neck (under bead) diameter
- $L$  locking bead diameter
- $L_1$  additional skirt support bead
- Diameter  $L_1$  does not exceed diameter  $L$ .

**Figure 2 — Optional finish with additional support bead**

Dimensions in millimetres

**Key***F* height of the neck finish

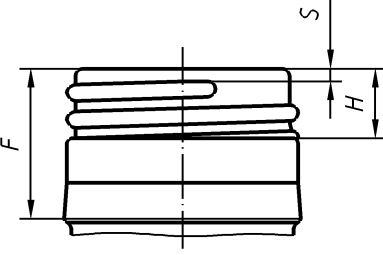
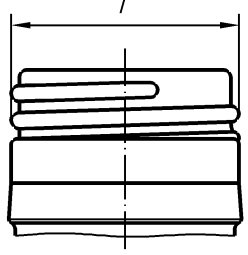
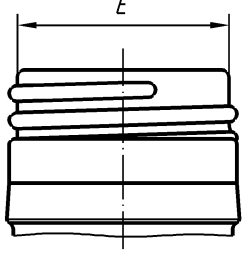
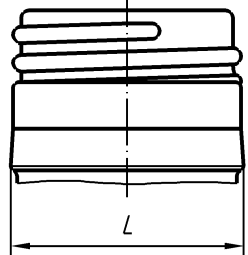
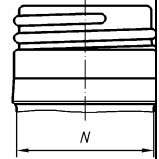
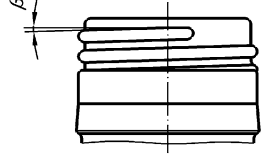
Optional take-out groove is only applicable for types 30H, 31,5H and 36 H.

**Figure 3 – Optional take-out groove**  
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Table 1 — Dimensions in millimetres for finishes Type BVS

													
Type	F ±0,2	S ±0,25	H ±0,2	T		E		L		L - N Min / Max	Pitch	β	TPI
				Nominal	Tolerance <sup>a</sup>	Nominal	Tolerance <sup>a</sup>	Nominal	Tolerance <sup>a</sup> and <sup>b</sup>				
28 H	19,4	<b>2,8</b>	<b>10,4</b>	27,1	±0,3	24,9	±0,3	27,6	±0,3	2,9 / 4,2	3,63	2°33'	7
30 H	21,4	<b>2,8</b>	<b>10,4</b>	28,3	±0,3	26,1	±0,3	28,9	±0,3	2,9/ 4,2	3,63	2°26'	7
31,5 H	21,4	<b>2,8</b>	<b>10,4</b>	30,2	±0,3	28,0	±0,3	30,7	±0,3	2,9/ 4,2	3,63	2°16'	7
36 H	21,4	<b>2,8</b>	<b>10,4</b>	35,3	±0,3	32,9	±0,3	35,6	±0,3	2,9/ 4,2	3,63	1°56'	7

NOTE 1 See Table 4 for Y and X dimensions.

NOTE 2 In Table 1, dimensions in bold letters are those which are different than the dimensions of the corresponding BVP finish (see Reference [1]).

NOTE 3 TPI = threads per inch; one inch is equal to 25,4 mm.

<sup>a</sup> Absolute ovality limits may be assessed with a Parnaby type gauge for T and L (see Annex A).

<sup>b</sup> For optimum application of the caps, the mean diameter  $L = \frac{\text{diameter}_{\max} - \text{diameter}_{\min}}{2}$  shall be in the tolerance of ± 0,20 mm.