



**SLOVENSKI STANDARD**  
**oSIST prEN 16291-2:2011**  
**01-julij-2011**

---

**Steklena embalaža - Grla z navojem za steklenice pod tlakom - 2. del: Nevračljiva steklena grla MCA 2**

Glass packaging - Screw finishes for pressure capsules - Part 2: One way glass MCA 2 finish

Verpackungen aus Glas - Schraubmundstücke für Flaschen mit Innendruck - Teil 2: Einweg-MCA 2-Mundstück

Emballage en verre - Bague à vis pour capsules à pression - Partie 2: Bague MCA 2 pour verre perdu

**Ta slovenski standard je istoveten z: prEN 16291-2**

---

**ICS:**

55.100            Steklenice. Lonci. Kozarci            Bottles. Pots. Jars

**oSIST prEN 16291-2:2011**

**en,fr,de**



EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**DRAFT**  
**prEN 16291-2**

May 2011

---

ICS 55.100

English Version

## Glass packaging - Screw finishes for pressure capsules - Part 2: One way glass MCA 2 finish

Emballage en verre - Bague à vis pour capsules à pression  
- Partie 2: Bague MCA 2 pour verre perdu

Verpackungen aus Glas - Schraubmundstücke für  
Flaschen mit Innendruck - Teil 2: Einweg-MCA 2-  
Mundstück

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 261.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

**Warning** : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



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

**Management Centre: Avenue Marnix 17, B-1000 Brussels**

| <b>Contents</b>            | <b>Page</b> |
|----------------------------|-------------|
| Foreword.....              | 3           |
| Introduction .....         | 4           |
| 1 <b>Scope</b> .....       | 5           |
| 2 <b>Definitions</b> ..... | 5           |
| 3 <b>Dimensions</b> .....  | 5           |
| Bibliography .....         | 10          |

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST EN 16291-2:2013

<https://standards.iteh.ai/catalog/standards/sist/628afcc7-2e56-485e-aacc-ec08b6720eb6/sist-en-16291-2-2013>

## Foreword

This document (prEN 16291-2:2011) has been prepared by Technical Committee CEN/TC 261 “Packaging”, the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

This document dealing with screw finishes for pressure capsules constituted of 2 parts.

- Part 1 deals with screw finishes for pressure capsules for returnable glass.
- Part 2 deals with screw finishes for pressure capsules for one way glass.

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST EN 16291-2:2013

<https://standards.iteh.ai/catalog/standards/sist/628afcc7-2e56-485e-aacc-ec08b6720eb6/sist-en-16291-2-2013>

## Introduction

This document is based on CE.T.I.E. (International Technical Centre for Bottling and related Packaging) data sheet GME 320 [1].

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

iTeh STANDARD PREVIEW  
(standards.iteh.ai)

SIST EN 16291-2:2013

<https://standards.iteh.ai/catalog/standards/sist/628afcc7-2e56-485e-aacc-ec08b6720eb6/sist-en-16291-2-2013>

## 1 Scope

This document specifies the dimensions of the screw finish for glass containers designated MCA 2. for one way glass.

## 2 Definitions

For the purposes of this European Standard, the following term and definition applies.

### 2.1

#### MCA

finish designed for the closure of pressurized or vacuum liquids with a tamper-evident closure (metal or plastic)

## 3 Dimensions

The design and dimensions of the finish shall be as shown in Table 1 and Figures 1, 2, 3 and 4.

Table 1

| Pitch   | $\beta$ | TPI - Threads per inch<br>(25,4 mm) | $\varnothing$ cutter |
|---|---------|-------------------------------------|----------------------|
| 3,175 mm  | 2° 12'  | 8                                   | 12,5 mm              |
| $\beta$ = Helix angle or angle of fixture to cutter |         |                                     |                      |

NOTE 1 The Tan  $\beta$  of helix angle for cutter is calculated via the following formula:

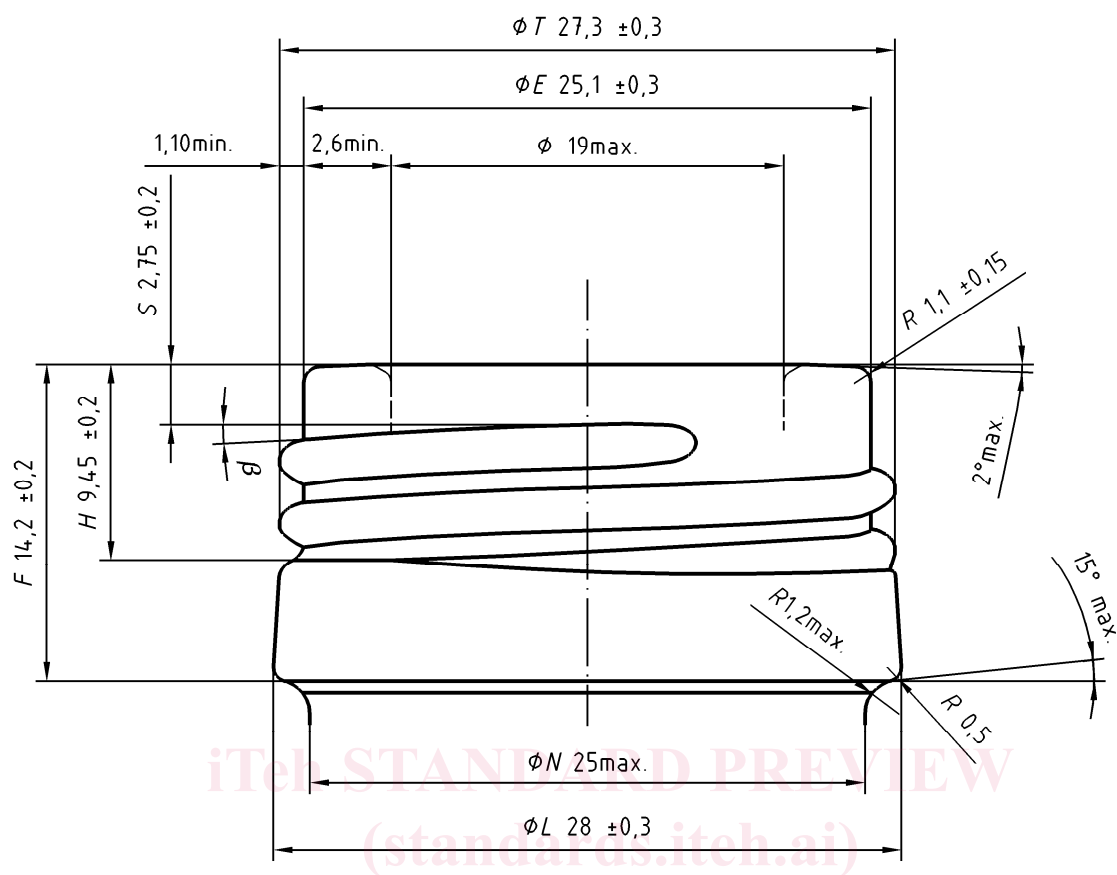
$$\text{Tan } \beta = \frac{\text{pitch}}{\frac{\pi (\text{nominal T} + \text{nominal E})}{2}}$$

NOTE 2 The average of the maximum and minimum of « L » diameter should be as close as possible to « L » nominal.

NOTE 3 The limit of the mean diameters should be within the tolerance  $\pm 0,2$  mm.

$$(T-E-L) = \frac{\varnothing \text{ max} + \varnothing \text{ min}}{2}$$

NOTE 4 Optional: Depressed thread at mould parting line. (Document in preparation).

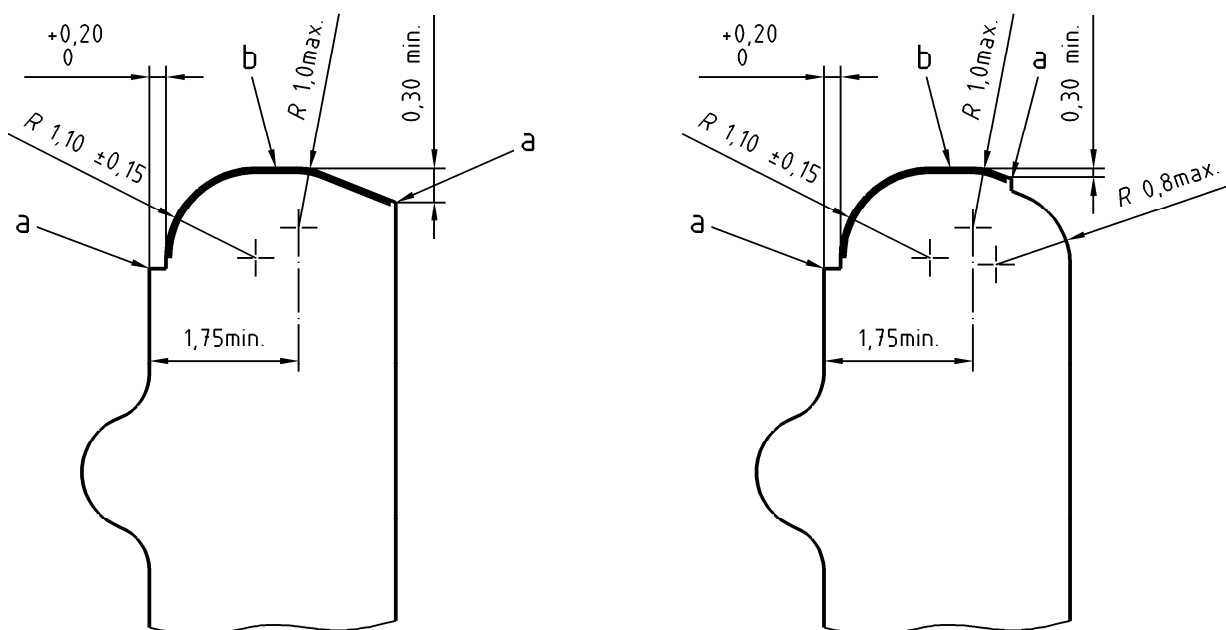


iTeh STANDARD PREVIEW  
(standards.iteh.ai)

SIST EN 16291-2:2013

<https://standards.iteh.ai/catalog/standards/sist/028afcc7-2e56-485e-aacc-ec08b6720eb6/sist-en-16291-2-2013> **Figure 1**





Key

- a) Mould parting line
- b) Sealing surface

**Figure 2 — Possible alternative constructions of the bore entrance to suit glass manufacturer**

**NOTE** The sealing surface should be smooth and free of any defects and flash.

<https://standards.iteh.ai/catalog/standards/sist/628afcc7-2c56-485e-aacc-ec08b6720eb6/sist-en-16291-2-2013>

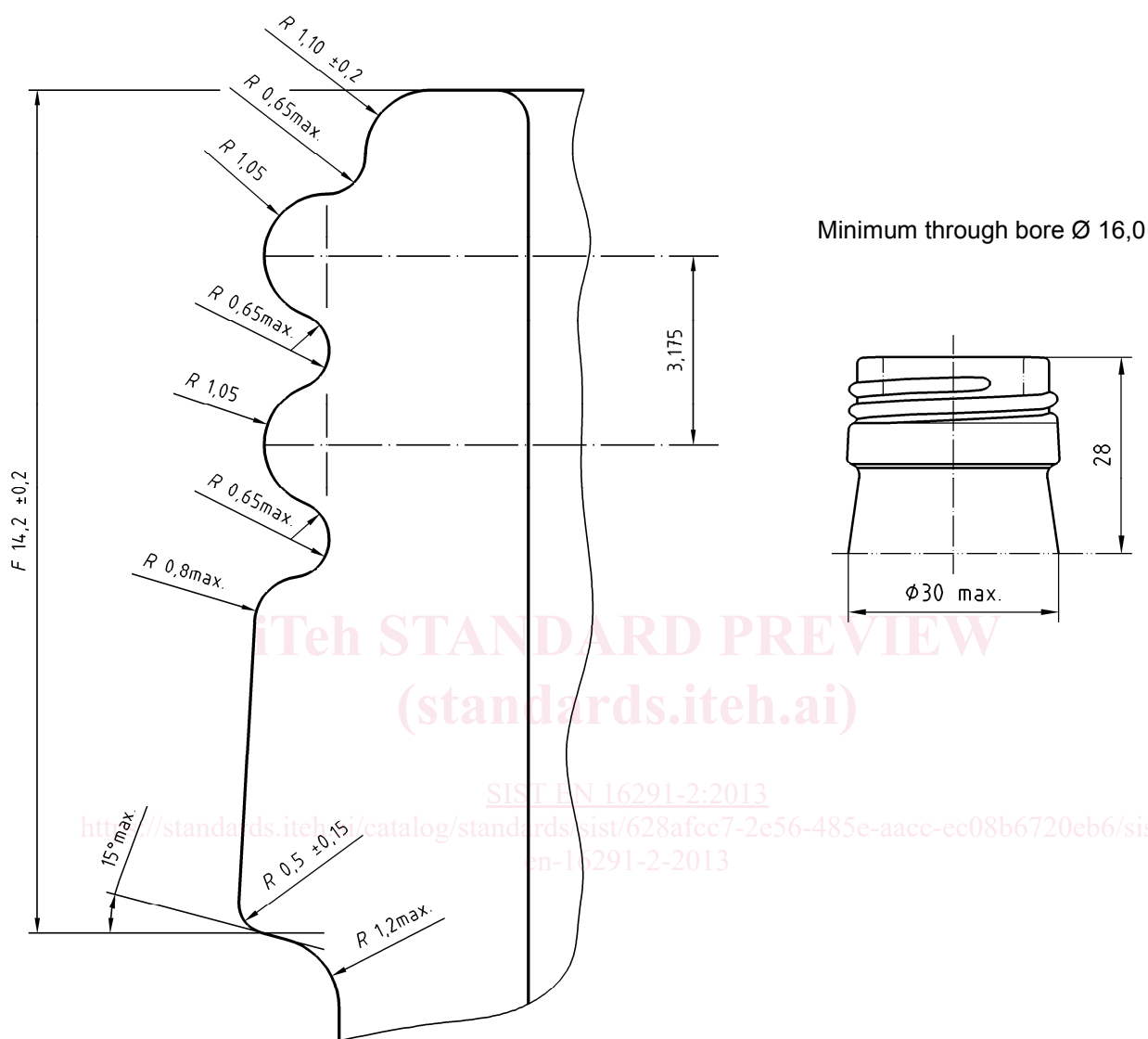


Figure 3 — Detail of the profile