



**SLOVENSKI STANDARD**  
**SIST EN 16288-2:2014**

01-julij-2014

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**Steklena embalaža - Grla z navojem za steklenice pod tlakom - 2. del: Nevračljiva steklena grla MCA 3**

Glass packaging - Screw finishes for pressure capsules - Part 2: One way glass MCA 3 finish

Verpackungen aus Glas - Schraubmundstücke für Flaschen mit Innendruck - Teil 2: Einweg-MCA 3-Mundstück

Emballage en verre - Bague à vis pour capsules à pression - Partie 2: Bague MCA 3 pour verre perdu

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**Ta slovenski standard je istoveten z: EN 16288-2:2014**

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**ICS:**

55.100            Steklenice. Lonci. Kozarci            Bottles. Pots. Jars

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**en,fr,de**

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EUROPEAN STANDARD

EN 16288-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2014

ICS 55.100

English Version

## Glass packaging - Screw finishes for pressure capsules - Part 2: One way glass MCA 3 finish

Emballage en verre - Bagues à vis pour capsules à  
pression - Partie 2: Bague MCA 3 pour verre perdu

Verpackungen aus Glas - Schraubmundstücke für Flaschen  
mit Innendruck - Teil 2: Einweg-MCA 3-(Glas-)Mundstück

This European Standard was approved by CEN on 12 January 2014.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, 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

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## Foreword

This document (EN 16288-2:2014) 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 September 2014 and conflicting national standards shall be withdrawn at the latest by September 2014.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

EN 16288, *Glass packaging — Screw finishes for pressure capsules*, consists of the following parts:

- *Part 1: Returnable glass MCA 3 finish*
- *Part 2: One way glass MCA 3 finish*

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

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**EN 16288-2:2014 (E)**

## **Introduction**

This European Standard is based on CE.T.I.E. (International Technical Centre for Bottling and related Packaging) data sheet GME 32.01.<sup>[1]</sup>

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.

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## 1 Scope

This European Standard specifies the dimensions of the 28 mm screw finish for glass containers designated MCA 3 for pressurized or vacuum liquids for one way glass.

## 2 Terms and definitions

For the purposes of this document, the following term and definition applies

### 2.1

#### MCA

(glass) 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 Figure 1, Figure 2, Figure 3, Figure 4 and Figure 5.

**Table 1 — Design and dimensions of the finish**

Pitch	$\beta$	TPI	$\emptyset$ cutter
3,175 mm	2° 12'	8	12,5 mm
$\beta$ = Helix angle or angle of fixture to cutter. NOTE TPI = Threads per Inch. One inch is equal to 25,4 mm.			

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

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

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where

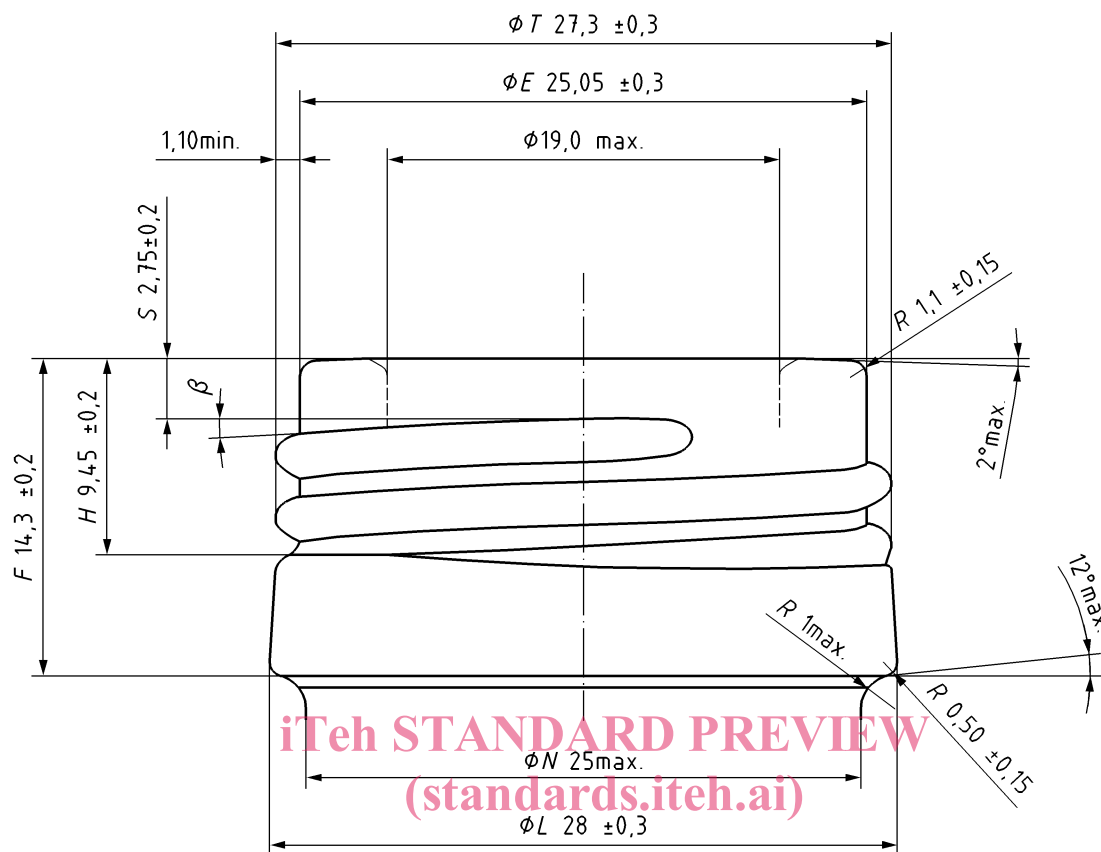
- $T$  is the thread diameter;  
 $E$  is the wall diameter of threaded finish.

The average of the maximum and minimum of «  $L$  » diameter is as close as possible to «  $L$  » nominal.

The mean diameter  $L \frac{\text{diameter max} + \text{diameter min}}{2}$  is in the tolerance of  $\pm 0,2$  mm

Optional: depressed thread at mould parting line (see EN 16292).

Dimensions in millimetres



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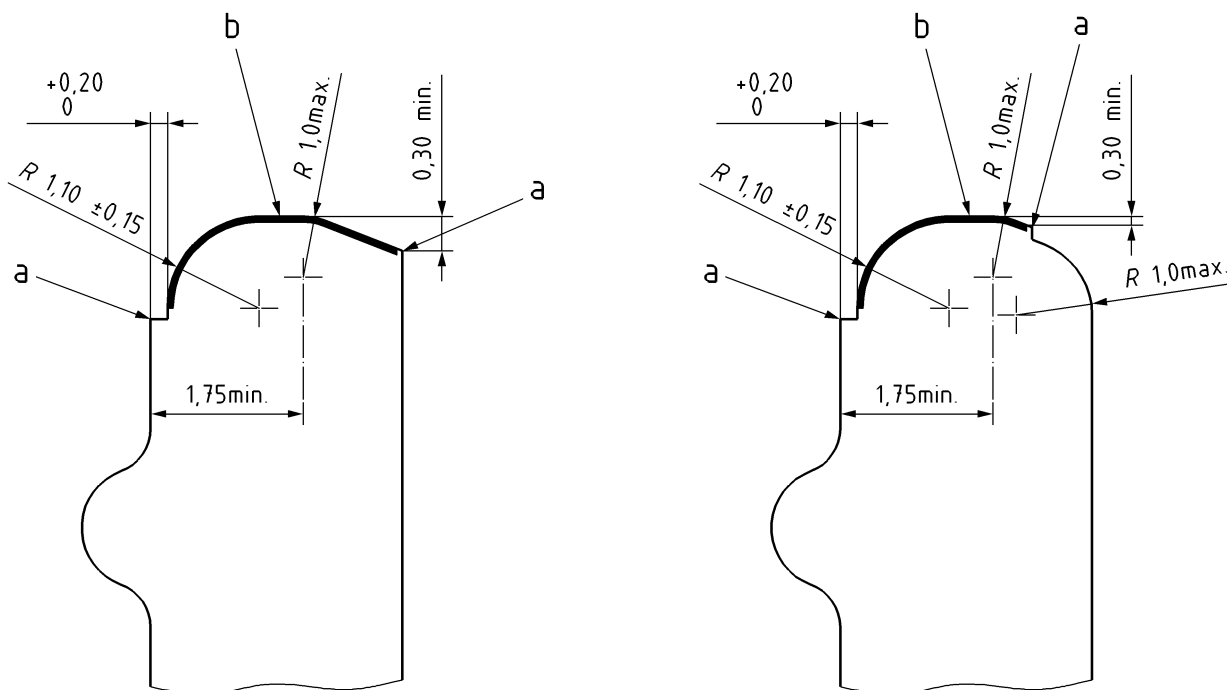
**Key***N* neck (under bead) diameter*H* thread height*S* start of thread position from sealing surface to intersection of thread flank*F* height of the finish*L* locking bead diameter*T* thread diameter*E* wall diameter of threaded finish

NOTE Bore diameter 19 mm max. for a depth of 3 mm

**Figure 1 — MCA 3 finish**



Dimensions in millimetres



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Type 1 (standards.iteh.ai)

Type 2

**Key**

a Mould parting line

b Sealing surface

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The sealing surface is smooth and free of any defects and flash.