



**SLOVENSKI STANDARD**  
**SIST EN 13445-3:2014/A4:2018**  
**01-maj-2018**

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**Neogrevane (nekurjene) tlačne posode - 3. del: Konstruiranje - Dopnilo A4**

Unfired pressure vessels - Part 3: Design

Unbefeuerte Druckbehälter - Teil 3: Konstruktion

Réipients sous pression non soumis à la flamme - Partie 3: Conception

**Ta slovenski standard je istoveten z: EN 13445-3:2014/A4:2018**

[SIST EN 13445-3:2014/A4:2018](https://standards.iteh.ai/catalog/standards/sist/c54040fc-ae2a-4844-bd5b-7a4f2e57f919/sist-en-13445-3-2014-a4-2018)

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**ICS:**

23.020.32      Tlačne posode      Pressure vessels

**SIST EN 13445-3:2014/A4:2018**      **en,fr,de**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 13445-3:2014/A4**

March 2018

ICS 23.020.30

English Version

**Unfired pressure vessels - Part 3: Design**

Réceptifs sous pression non soumis à la flamme -  
Partie 3 : Conception

Unbefeuerte Druckbehälter - Teil 3: Konstruktion

This amendment A4 modifies the European Standard EN 13445-3:2014; it was approved by CEN on 17 December 2017.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant 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 amendment 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, 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 13445-3:2014/A4:2018) has been prepared by Technical Committee CEN/TC 54 “Unfired pressure vessels”, 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 September 2018, and conflicting national standards shall be withdrawn at the latest by September 2018.

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 has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of EN 13445-3:2014.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom. (standards.iteh.ai)

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**EN 13445-3:2014/A4:2018 (E)****1 Modification to 9.7.2.4, Openings in elliptical and torispherical ends**

*Insert the following sentence at the end of the paragraph: "In case the value of  $w$  limited as above is not sufficient to reinforce the opening, it is allowed to calculate the reinforcement taking into account the full value of  $l_s$ , provided the thickness of the end complies with 7.7, considering the opening as encroaching into the knuckle region."*

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