ICS 23.020.30 SLOVENSKÁ TECHNICKÁ NORMA Apríl 2026

STN	**Nevyhrievané tlakové nádoby Časť 3: Navrhovanie Zmena A1**	**STN EN 13445-3/A1 69 0010**

Unfired pressure vessels - Part 3: Design

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 03/26

Obsahuje: EN 13445-3:2021/A1:2025

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EUROPEAN STANDARD
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EUROPÄISCHE NORM

EN 13445-3:2021/A1

November 2025

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English Version

Unfired pressure vessels - Part 3: Design

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

Unbefeuerte Druckbehälter - Teil 3: Konstruktion

This amendment A1 modifies the European Standard EN 13445-3:2021; it was approved by CEN on 18 August 2025.

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.

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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

Ref. No. EN 13445-3:2021/A1:2025 E

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European foreword

This document (EN 13445-3:2021/A1:2025) 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of an identical text or by endorsement, at the latest by May 2026 and conflicting national standards shall be withdrawn at the latest by May 2026.

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 standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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, 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, Türkiye and the United Kingdom.

1 Modifications to the whole document

Replace "Equation (***)" *with* "Formula (***)" *and* "Equations (***)" *with* "Formulae (***)".

2 Modifications to Clause 2, "Normative references"

Add a reference to EN 12952-3:2022 and replace the references to EN 1990:2002, EN 1991-1-6:2005, EN 1992-1-1:2005, EN 1998-1:2004, EN 10222-1:1998, EN 12195-1:2010, EN 13445-2:2021, EN 13445-4:2021, EN 13555:2014, EN ISO 4014:2011, EN ISO 4016:2011 and EN ISO 15613:2004 with the following:

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EN 1990:2023, *Eurocode — Basis of structural and geotechnical design*

EN 1991-1-6:2005[2)], *Eurocode 1 — Actions on structures — Part 1-6: General actions — Actions during execution*

EN 1992-1-1:2023, *Eurocode 2 — Design of concrete structures — Part 1-1: General rules and rules for buildings, bridges and civil engineering structures*

EN 1998-1:2004[3)], *Design of structures for earthquake resistance — Part 1: General rules, seismic actions and rules for buildings*

EN 10222-1:2017, *Steel forgings for pressure purposes — Part 1: General requirements for open die forgings*

EN 12195-1:2010[4)], *Load restraining on road vehicles — Safety — Part 1: Calculation of securing forces*

EN 12952-3:2022, *Water-tube boilers and auxiliary installations — Part 3: Design and calculation for pressure parts of the boiler*

EN 13445-2:2021+A1:2023, *Unfired pressure vessels — Part 2: Materials*

EN 13445-4:2021+A1:2023, *Unfired pressure vessels — Part 4: Fabrication*

EN 13555:2021, *Flanges and their joints — Gasket parameters and test procedures relevant to the design rules for gasketed circular flange connections*

EN ISO 4014:2022, *Fasteners — Hexagon head bolts — Product grades A and B (ISO 4014:2022)*

EN ISO 4016:2022, *Fasteners — Hexagon head bolts — Product grade C (ISO 4016:2022)*

EN ISO 15613:2004, *Specification and qualification of welding procedures for metallic materials — Qualification based on pre-production welding test (ISO 15613:2004)*

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2) EN 1991-1-6:2005 is impacted by the corrigendum EN 1991-1-6:2005/AC:2013.

3) EN 1998-1:2004 is impacted by the stand-alone amendment EN 1998-1:2004/A1:2013.

4) EN 12195-1:2010 is impacted by the corrigendum EN 12195-1:2010/AC:2014.

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EN 13445-3:2021/A1:2025 (E)

Throughout the text, replace all references to “EN 13445-2:2021” *with* “EN 13445-2:2021+A1:2023” *and replace all references to* “EN 13445-4:2021” *with* “EN 13445-4:2021+A1:2023”.