



SLOVENSKI STANDARD
SIST EN 13445-1:2009/kFprA1:2013
01-julij-2013

Neogrevane tlačne posode - 1. del: Splošno - Dopolnilo A1

Unfired pressure vessels - Part 1: General

Unbefeuerte Druckbehälter - Teil 1: Allgemeines

Réceptifs sous pression non soumis à la flamme - Partie 1: Généralités

Ta slovenski standard je istoveten z: EN 13445-1:2009/FprA1

ICS:

23.020.30	Tlačne posode, plinske jeklenke	Pressure vessels, gas cylinders
-----------	------------------------------------	------------------------------------

SIST EN 13445-1:2009/kFprA1:2013 **en,fr,de**

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

FINAL DRAFT
EN 13445-1:2009

FprA1

June 2013

ICS 23.020.30

English Version

Unfired pressure vessels - Part 1: General

Réipients sous pression non soumis à la flamme - Partie
1: Généralités

Unbefeuerte Druckbehälter - Teil 1: Allgemeines

This draft amendment is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 54.

This draft amendment A1, if approved, will modify the European Standard EN 13445-1:2009. If this draft becomes an amendment, 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.

This draft amendment 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, 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.

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

Contents

Foreword.....	3
1 Modification 1.....	4
Annex X (informative) List of Essential Safety Requirements.....	5

Foreword

This document (EN 13445-1:2009/FprA1:2013) has been prepared by Technical Committee CEN/TC 54 "Unfired pressure vessels", the secretariat of which is held by BSI.

This document is currently submitted to the Formal Vote.

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 this document.

EN 13445-1:2009/FprA1:2013 (E)

1 Modification 1

Insert a new Annex X as follows.

Annex X (informative)

List of Essential Safety Requirements

Table X.1 contains a list of essential safety requirements for unfired steel pressure vessels.

NOTE 1 Table X-1 has been compiled from annexes ZA in Parts 1–5.

NOTE 2 Corresponding tables for unfired pressure vessels made from spheroidal graphite cast iron and aluminium, respectively, will be added later.

EN 13445-1:2009/FprA1:2013 (E)

Table X.1 — List of Essential Safety Requirements for Unfired Steel Pressure Vessels

ESRs of Directive 97/23/CE	Clause(s)/subclause(s) of EN 13445-1 to 5	Remarks/Notes
1.1	EN 13445-1, 4	General
2.2	EN 13445-3, all clauses	Design for adequate strength
2.2	EN 13445-3, 5	Calculation method
2.2.2 - 2.2.4	EN 13445-3, Annex T	Design by experimental method
2.2.3	EN 13445-3, 5, 7 to 21, Annexes A, E, F, G, J, P, Q	Calculation method - DBF
2.2.3	EN 13445-3, Annexes B, C	Calculation method - Design by Analysis
2.2.3 (b), 5th indent	EN 13445-2, 4	Provision and consideration of appropriate material properties
2.2.3 (b), 7th indent	EN 13445-2, 4.2.4	Design properties in the creep range
2.3	EN 13445-5, C5	Provisions to ensure safe handling and operation
2.4 and 2.5	EN 13445-5, C2, C3, C4	Means of examination
2.5	EN 13445-5, Annex C	Draining and venting
2.9	EN 13445-5, C5	Provisions for filling and discharge
3.1	EN 13445-4, 3, 5	Appropriate techniques and procedure
	EN 13445-5, 4, EN 13445-5, 7	Manufacturing procedures
	EN 13445-5, 6.2	Manufacturing procedures and construction drawings
	EN 13445-5, 6.7	Destructive testing
3.1.1	EN 13445-4, 9.2, 9.3	Manufacturing procedures, forming
	EN 13445-4, 7.6, EN 13445-5, 6.4	Preparation of component parts
3.1.2	EN 13445-4, 7.3, 7.7, 7.8, 7.9, 11	Operating procedure to carry out permanent joints
	EN 13445-4, 7.4	Qualified personnel to carry out permanent joints
	EN 13445-4, 7.3, 8	Properties of permanent joints