

Transportable gas cylinders - Bursting disc pressure relief devices (excluding acetylene gas cylinders)

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 14513:2005 sisaldab Euroopa standardi EN 14513:2005 ingliskeelset teksti.	This Estonian standard EVS-EN 14513:2005 consists of the English text of the European standard EN 14513:2005.
Käesolev dokument on jõustatud 30.05.2005 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.	This document is endorsed on 30.05.2005 with the notification being published in the official publication of the Estonian national standardisation organisation.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

Käsitlusala: This document specifies the requirements for the design, manufacture and testing for bursting disc pressure relief devices for use with gas cylinders. It is a requirement of this document that the bursting disc pressure relief devices conform to EN ISO 4126-2. In the event of a conflict, the requirements of this document take precedence over that standard.	Scope: This document specifies the requirements for the design, manufacture and testing for bursting disc pressure relief devices for use with gas cylinders. It is a requirement of this document that the bursting disc pressure relief devices conform to EN ISO 4126-2. In the event of a conflict, the requirements of this document take precedence over that standard.
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Võtmesõnad: bursting disc, compressed gas equipment, compressed gases, definition, definitions, design, gas cylinders, gas pressure vessels, manufacturing tests, marking, mobile, mounting, production, safety, safety engineering, specification (approval), specifications, testing

ICS 23.020.30

English version

Transportable gas cylinders - Bursting disc pressure relief devices (excluding acetylene gas cylinders)

Bouteilles à gaz - Bouteilles à gaz transportables -
Dispositifs limiteurs de pression à disque de rupture (à
l'exclusion des bouteilles pour acétylène)

Ortsbewegliche Gasflaschen - Berstscheibeneinrichtungen
zur Druckentlastung (ausgenommen für Acetylenflaschen)

This European Standard was approved by CEN on 14 February 2005.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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Foreword

This document (EN 14513:2005) has been prepared by Technical Committee CEN/TC 23 “Transportable gas cylinders”, 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 2005, and conflicting national standards shall be withdrawn at the latest by September 2005.

This document includes a Bibliography.

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

1 Scope

This document specifies the requirements for the design, manufacture and testing for bursting disc pressure relief devices for use with gas cylinders. It is a requirement of this document that the bursting disc pressure relief devices conform to EN ISO 4126-2. In the event of a conflict, the requirements of this document take precedence over that standard.

This document does not apply to acetylene gas cylinders and is restricted to bursting disc pressure relief devices for gas cylinders used in some specific applications.

NOTE This document does not provide methods for determining the capacity of a bursting disc pressure relief device for a particular gas cylinder.

This document will not indicate when a bursting disc pressure relief device shall be fitted and at which pressure it will be set, see EN 13096.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN ISO 4126-2:2003, *Safety devices for the protection against excessive pressure — Part 2: Bursting disc safety devices (ISO 4126-2:2003)*.

EN ISO 11114-1, *Transportable gas cylinders — Compatibility of cylinder and valve materials with gas contents — Part 1: Metallic materials (ISO 11114-1:1997)*.

EN ISO 11114-2, *Transportable gas cylinders — Compatibility of cylinder and valve materials with gas contents — Part 2: Non-metallic materials (ISO 11114-2:2000)*.

EN ISO 11114-3, *Transportable gas cylinders — Compatibility of cylinder and valve materials with gas contents — Part 3: Autogenous ignition test in oxygen atmosphere (ISO 11114-3:1997)*.

ISO 10156, *Gases and gas mixtures — Determination of fire potential and oxidizing ability for the selection of cylinder valve outlets*.

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN ISO 4126-2:2003 and the following apply.

3.1

pressure

pressure relative to atmospheric pressure, i.e. gauge pressure

3.2

specified minimum temperature

lowest temperature for which the bursting disc pressure relief device is specified

3.3

specified maximum temperature

highest temperature for which the bursting disc pressure relief device is specified

3.4

coincident temperature

temperature of the bursting disc pressure relief device associated with a bursting pressure and which is the expected temperature of the bursting disc when it is required to burst (i.e. the set pressure)