



SLOVENSKI STANDARD

SIST EN ISO 11623:2016

01-marec-2016

Nadomešča:

SIST EN ISO 11623:2002

Plinske jeklenke - Kompozitni materiali - Periodični pregledi in preskusi (ISO 11623:2015)

Gas cylinders - Composite construction - Periodic inspection and testing (ISO 11623:2015)

Gasflaschen - Verbundbauweise - Wiederkehrende Inspektion und Prüfung (ISO 11623:2015)

Bouteilles à gaz transportables - Contrôles et essais périodiques des bouteilles à gaz en matériau composite (ISO 11623:2015)

Ta slovenski standard je istoveten z: EN ISO 11623:2015

ICS:

23.020.30

Tlačne posode, plinske
jeklenke

Pressure vessels, gas
cylinders

SIST EN ISO 11623:2016

en,fr,de

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 11623:2016

<https://standards.iteh.ai/catalog/standards/sist/38a1e270-c1bc-4c3d-bc2e-6197c157e67a/sist-en-iso-11623-2016>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 11623

December 2015

ICS 23.020.30

Supersedes EN ISO 11623:2002

English Version

Gas cylinders - Composite construction - Periodic inspection and testing (ISO 11623:2015)

Bouteilles à gaz - Construction composite - Contrôles et essais périodiques (ISO 11623:2015)

Gasflaschen - Verbundbauweise - Wiederkehrende Inspektion und Prüfung (ISO 11623:2015)

This European Standard was approved by CEN on 3 October 2015.

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.

<https://standards.iteh.ai/catalog/standards/sist/38a1e270-c1bc-4c3d-bc2e-6197c157e67a/sist-en-iso-11623-2016>



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

European foreword.....	3
------------------------	---

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN ISO 11623:2016](https://standards.iteh.ai/catalog/standards/sist/38a1e270-c1bc-4c3d-bc2e-6197c157e67a/sist-en-iso-11623-2016)

<https://standards.iteh.ai/catalog/standards/sist/38a1e270-c1bc-4c3d-bc2e-6197c157e67a/sist-en-iso-11623-2016>

European foreword

This document (EN ISO 11623:2015) has been prepared by Technical Committee ISO/TC 58 "Gas cylinders" in collaboration with 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 June 2016, and conflicting national standards shall be withdrawn at the latest by June 2016.

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.

This document supersedes EN ISO 11623:2002.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

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.

[SIST EN ISO 11623:2016](https://standards.iteh.ai/catalog/standards/sist/50a1c270-c1bc-4c3d-bc2e-6197c157e67a/sist-en-iso-11623-2016)

Endorsement notice

<https://standards.iteh.ai/catalog/standards/sist/50a1c270-c1bc-4c3d-bc2e-6197c157e67a/sist-en-iso-11623-2016>

The text of ISO 11623:2015 has been approved by CEN as EN ISO 11623:2015 without any modification.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 11623:2016

<https://standards.iteh.ai/catalog/standards/sist/38a1e270-c1bc-4c3d-bc2e-6197c157e67a/sist-en-iso-11623-2016>

INTERNATIONAL STANDARD

**ISO
11623**

Second edition
2015-12-01

Gas cylinders — Composite construction — Periodic inspection and testing

*Bouteilles à gaz — Construction composite — Contrôles et essais
périodiques*

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 11623:2016](https://standards.iteh.ai/catalog/standards/sist/38a1e270-c1bc-4c3d-bc2e-6197c157e67a/sist-en-iso-11623-2016)

[https://standards.iteh.ai/catalog/standards/sist/38a1e270-c1bc-4c3d-bc2e-
6197c157e67a/sist-en-iso-11623-2016](https://standards.iteh.ai/catalog/standards/sist/38a1e270-c1bc-4c3d-bc2e-6197c157e67a/sist-en-iso-11623-2016)



Reference number
ISO 11623:2015(E)

© ISO 2015

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 11623:2016

<https://standards.iteh.ai/catalog/standards/sist/38a1e270-c1bc-4c3d-bc2e-6197c157e67a/sist-en-iso-11623-2016>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2015, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Due dates for periodic inspection and testing	4
5 Procedures for periodic inspection and testing	4
5.1 List of procedures	4
5.2 Heat exposure	4
6 Identification of cylinder and preparation for periodic inspection and testing	5
7 External visual inspection	5
7.1 Preparation	5
7.2 Inspection procedures	6
7.3 Damage	6
7.3.1 General	6
7.3.2 Identification label	6
7.3.3 Damage levels	6
7.3.4 Types of damage	8
7.4 Repairs	9
8 Internal visual inspection	10
8.1 Safe removal of valve	10
8.2 Internal inspection and cleaning	10
8.2.1 General	10
8.2.2 Metallic liners	10
8.2.3 Linerless and non-metallic liners	10
8.3 Inspection of cylinder neck/shoulder	11
9 Pressure test	12
10 Leak test	12
11 Inspection of valve	12
12 Final operations	12
12.1 Drying and cleaning	12
12.2 Painting	12
12.3 Cylinder re-valving	13
12.4 Check on cylinder tare	13
12.5 Marking	13
12.6 Reference to next test date	13
12.7 Identification of contents	14
12.8 Records	14
13 Rejection and rendering cylinders unserviceable	14
Annex A (normative) Damage criteria for steel wire wound, aluminium-alloy cylinders	22
Annex B (normative) Internal inspection of translucent cylinders	23
Annex C (informative) Intervals between periodic inspection and testing	24
Bibliography	27

ISO 11623:2015(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 58, *Gas cylinders*, Subcommittee SC 4, *Operational requirements for gas cylinders*.

This second edition cancels and replaces the first edition (ISO 11623:2002), which has been technically revised with the following changes:

- up-to-date terminology particularly for the various types of composite cylinders;
- up-to-date normative references for steel and aluminium-alloy liner materials;
- list defects according to severity with an additional set of acceptance/rejection criteria;
- replacement of the procedure regarding obstructed cylinder valve (former Annex A) with a reference to ISO 25760;
- addition of a new, normative Annex B for the internal inspection of translucent composite cylinders;
- information regarding intervals between periodic inspection and testing based on cylinder type, formerly listed in Tables 1 through 4, moved into new, informative Annex C;
- update of some photographs to provide sharper examples of damage.

Introduction

The principal aim of periodic inspection and testing is that at the completion of the test, the cylinders can be reintroduced into service for a further period of time. It is not possible to identify all considerations for periodic inspection and testing of composite cylinders in this International Standard. In such cases or where there is doubt, questions regarding specific cylinders should be directed to the manufacturer or owner.

This International Standard is intended to be used under a variety of national regulatory regimes, but has been written so that it is suitable for the application of the UN Model Regulations (see Reference [1]). Attention is drawn to requirements in the relevant national regulations of the country (countries) where the cylinders are intended to be used that might override the requirements given in this International Standard. Where there is any conflict between this International Standard and any applicable regulation, the regulation always takes precedence.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 11623:2016](https://standards.iteh.ai/catalog/standards/sist/38a1e270-c1bc-4c3d-bc2e-6197c157e67a/sist-en-iso-11623-2016)

<https://standards.iteh.ai/catalog/standards/sist/38a1e270-c1bc-4c3d-bc2e-6197c157e67a/sist-en-iso-11623-2016>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 11623:2016

<https://standards.iteh.ai/catalog/standards/sist/38a1e270-c1bc-4c3d-bc2e-6197c157e67a/sist-en-iso-11623-2016>