



SLOVENSKI STANDARD

SIST EN ISO 11621:2006

01-marec-2006

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SIST EN 1795:1999

Plinske jeklenke – Postopki za spremembo namembnosti (ISO 11621:1997)

Gas cylinders - Procedures for change of gas service (ISO 11621:1997)

Gasflaschen - Verfahren für den Wechsel der Gasart (ISO 11621:1997)

Bouteilles a gaz - Mode opératoire pour le changement de service de gaz (ISO 11621:1997)

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Ta slovenski standard je istoveten z: **EN ISO 11621:2005**

ICS:

23.020.30	V æ} ^Á [• [å^ Æ ã • \ ^ b\ ^} \ ^	Pressure vessels, gas cylinders
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 11621

October 2005

ICS 23.020.30

Supersedes EN 1795:1997

English Version

**Gas cylinders - Procedures for change of gas service (ISO
11621:1997)**

Bouteilles à gaz - Mode opératoire pour le changement de
service de gaz (ISO 11621:1997)

Gasflaschen - Verfahren für den Wechsel der Gasart (ISO
11621:1997)

This European Standard was approved by CEN on 22 September 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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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN ISO 11621:2005 (E)

Foreword

The text of ISO 11621:1997 has been prepared by Technical Committee ISO/TC 58 “Gas cylinders” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 11621:2005 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 April 2006, and conflicting national standards shall be withdrawn at the latest by April 2006.

This document supersedes EN 1795:1997.

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.

Endorsement notice

The text of ISO 11621:1997 has been approved by CEN as EN ISO 11621:2005 without any modifications.

NOTE Normative references to International Standards are listed in annex ZA (normative).

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE When an International Publication has been modified by common modifications, indicated by (mod.), the relevant EN/HD applies.

<u>ISO Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO 5145	1990	Cylinder valve outlets for gases and gas mixtures — Selection and dimensioning (withdrawn, see ISO 5145: 2004)	No EN equivalent	
ISO 6406	1992	Periodic inspection and testing of seamless steel gas cylinders (Note: To be replaced by ISO/FDIS 6406 (2004-10))	EN 1968	2002
ISO 10156	1996	Gases and gas mixtures — Determination of fire potential and oxidizing ability for the selection of cylinder valve outlets (in revision)	EN 720-2 To be replaced by EN ISO 10156	1996
ISO 10460	1993	Welded carbon steel gas cylinders — Periodic inspection and testing (Note: To be replaced by ISO/FDIS 10460 (2004-11))	EN 1803	2002
ISO 11114-1	1997	Transportable gas cylinders — Compatibility of cylinder and valve materials with gas contents — Part 1: Metallic materials	EN ISO 11114-1	1997

INTERNATIONAL STANDARD

ISO
11621

First edition
1997-04-15

Gas cylinders — Procedures for change of gas service

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Bouteilles à gaz — Mode opératoire pour le changement de service de gaz

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Reference number
ISO 11621:1997(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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 11621 was prepared by Technical Committee ISO/TC 58, *Gas cylinders*, Subcommittee SC 4, *Operational requirements for gas cylinders*.

Annex A of this International Standard is for information only.

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Introduction

It is occasionally desirable to change gas cylinders from one gas service to another. Certain of these service changes can be made quite easily, while others require a careful inspection of the interior and exterior of the cylinder to detect the presence of corrosion products or contaminants, which must be removed for safety reasons or to avoid undesirable contamination of the contained gas.

This International Standard has been prepared to assist those engaged in the filling of gas cylinders for changing cylinders from one gas service to another.

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Gas cylinders — Procedures for change of gas service

1 Scope

This International Standard applies to seamless steel, aluminium alloy and welded steel refillable cylinders of all sizes, including large cylinders (water capacity greater than 150 l).

It provides general requirements and procedures to be considered whenever a cylinder is being transferred from one gas service to another for permanent and liquefied gases.

It does not apply to cylinders for dissolved acetylene, radioactive gases or gases listed in group G of table 1.

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2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 5145:1990, *Cylinder valve outlets for gases and gas mixtures — Selection and dimensioning*.

ISO 6406:1992, *Periodic inspection and testing of seamless steel gas cylinders*.

ISO 10156:1996, *Gases and gas mixtures — Determination of fire potential and oxidizing ability for the selection of cylinder valve outlets*.

ISO 10460:1993, *Welded carbon steel gas cylinders — Periodic inspection and testing*.

ISO 10461:1993, *Seamless aluminium-alloy gas cylinders — Periodic inspection and testing*.

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

¹⁾ To be published.

3 Abbreviations

NDT = Non-destructive testing.

SCT = Stress corrosion testing.

4 General requirements

Cylinders are manufactured in accordance with international and/or national standards and are intended for use with a variety of gases under specified filling conditions. Although some cylinders are restricted to specific gas services, the majority of cylinders can be transferred from one gas service to another, provided applicable regulations are observed and appropriate procedures are followed and material compatibilities are considered (see ISO 11114-1).

Cylinders which have been in service may have been exposed to conditions that render them unsafe during, or when transferred to, a different gas service. These conditions could result in contamination, corrosion or residual gases that may react. Therefore, it is essential that all procedures detailed in clause 5 and displayed in tables 1, 2 and 3 be carefully followed.

Particular attention shall be directed to assuring that purging or cleaning procedures, where specified, remove all residual gas, contaminants or corrosion products and that cleaning agents are removed and cylinders dried and sealed to prevent entry of dirt or moisture after cleaning.

Persons using this International Standard shall be knowledgeable in the handling of compressed gases and be familiar with the chemical and physical properties of the commodities which they charge into cylinders and of the contaminants which are likely to be found therein.

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4.1 Grouping of gases

For the purposes of this International Standard, the gases for which cylinder transfers are most frequently desired have been separated into several groups. This separation has taken into consideration the chemical and physical reactivity of the gases and of the contaminants which are most frequently encountered.

The requirements in this International Standard may not be applicable to gases or mixtures which are not included in the gas groups given in table 3. Recommendations for the cleaning of cylinders which have contained such gases shall be obtained from the manufacturer of the cylinder and/or gas. The values quoted in table 1 for the FTSC code are taken from ISO 5145 or ISO 10156.

4.2 Gases which may affect cylinder condition

Cylinders which have been in certain gas services may be subjected to conditions which could affect the future serviceability of the cylinder or render it unsuitable for use in any other gas service. Cylinders in such services are subject to rigid requalification procedures or may be prohibited from use in other gas services. Examples are:

steel cylinders in carbon monoxide/carbon monoxide mixture service which may be subject to stress corrosion cracking;

steel cylinders which have been in hydrogen service but which were not designed and manufactured for this gas (see ISO 11114-1).

5 Actions for change of service

5.1 General

Because of the potential safety problems (e.g. corrosion, contamination, compatibility), specific actions are required when transferring a cylinder from one gas service to another. The steps (set of actions), denoted by a number, are