



SLOVENSKI STANDARD SIST EN ISO 10692-1:2002

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Gas cylinders - Gas cylinder valve connections for use in the microelectronics industry - Part 1: Outlet connections (ISO 10692-1:2001)

Ortsbewegliche Gasflaschen - Ventilanschlüsse für die Anwendung in der Mikroelektronik - Teil 1: Seitenanschlüsse (ISO 10692-1:2001)

Bouteilles a gaz - Raccords pour robinets de bouteilles a gaz pour l'industrie de la microélectronique - Partie 1: Raccords de sortie (ISO 10692-1:2001)

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Ta slovenski standard je istoveten z: EN ISO 10692-1:2001

ICS:

23.020.30 V|æ } ^Á [• [å ^É] ä • \ ^ Pressure vessels, gas cylinders
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 10692-1

August 2001

ICS 23.020.30

English version

**Gas cylinders - Gas cylinder valve connections for use in the
microelectronics industry - Part 1: Outlet connections (ISO
10692-1:2001)**

Bouteilles à gaz - Raccords pour robinets de bouteilles à
gaz pour l'industrie de la microélectronique - Partie 1:
Raccords de sortie (ISO 10692-1:2001)

Ortsbewegliche Gasflaschen - Ventilanschlüsse für die
Anwendung in der Mikroelektronik - Teil 1: Seitenanschlüsse
(ISO 10692-1:2001)

This European Standard was approved by CEN on 16 June 2001.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, 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 10692-1:2001 (E)

CORRECTED 2001-09-19

Foreword

The text of the International Standard ISO 10692-1:2001 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 February 2002, and conflicting national standards shall be withdrawn at the latest by February 2002.

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

Endorsement notice

The text of the International Standard ISO 10692-1:2001 was approved by CEN as a European Standard without any modification.

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO 6506-1	1999	Metallic materials - Brinell hardness test - Part 1: Test method	EN ISO 6506-1	1999
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

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INTERNATIONAL
STANDARD

ISO
10692-1

First edition
2001-08-15

**Gas cylinders — Gas cylinder valve
connections for use in the micro-electronics
industry —**

Part 1:
Outlet connections

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*Bouteilles à gaz — Raccords pour robinets de bouteilles à gaz pour
l'industrie de la microélectronique —*

Partie 1: Raccords de sortie

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Reference number
ISO 10692-1:2001(E)

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ISO 10692-1:2001(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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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.

Attention is drawn to the possibility that some of the elements of this part of ISO 10692 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 10692-1 was prepared by Technical Committee ISO/TC 58, *Gas cylinders*, Subcommittee SC 2, *Cylinder fittings*.

ISO 10692 consists of the following parts, under the general title *Gas cylinders – Gas cylinder valve connections for use in the micro-electronics industry*:

- *Part 1: Outlet connections*
- *Part 2: Specification and type testing for valve to cylinder connections*

Annex A forms a normative part of this part of ISO 10692. Annex B is for information only.

Gas cylinders — Gas cylinder valve connections for use in the micro-electronics industry —

Part 1: Outlet connections

1 Scope

This part of ISO 10692 applies to the outlet connections of gas cylinder valves for gases and gas mixtures and concerns special requirements where the highest levels of cleanliness and freedom from particles are demanded for the manufacture of microelectronic components or similar applications.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 10692. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 10692 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 68-2, *ISO general-purpose screw threads — Basic profile — Part 2: Inch screw threads.*

ISO 6506-1, *Metallic materials — Brinell hardness test — Part 1: Test method.*

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

ISO 10297, *Gas cylinders — Refillable gas cylinder valves — Specification and type testing.*

ISO 10298, *Determination of toxicity of a gas or gas mixture.*

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

3 General requirements

3.1 Materials

The following materials and specifications are recommended:

- For valve and nipple: AISI 316L, microfinished, hardness at least 130 HBW in accordance with ISO 6506-1;
- For the union nut: AISI 304, threading silver plated.

Other materials and values may be chosen if they give at least equivalent performance in terms of yield stress and resistance to corrosion (see ISO 11114-1).