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Gas cylinders — Safe handling

Bouteilles à gaz — Sécurité de manutention



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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 11625 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

The following guidelines are for the guidance of users, fillers or shippers of gas cylinders and are based upon experience. Some precautions are also applicable to gas manufacturers and distributors. It should not be assumed that every applicable safety precaution or regulation is contained herein.

Gas cylinders are constructed, maintained and used in accordance with applicable regulations and are safe for the purposes for which they are intended. Accidents occurring during the transportation, handling, usage and storage of these cylinders can generally be traced to failure to follow the guidelines set forth in this International Standard.

Users of compressed gases, permanent, liquefied or dissolved, should become familiar with the properties and inherent hazards of the products they use. Valuable information pertaining to each specific gas is contained within its product labelling and safety data sheet.

NOTE — Regulations and practice for LPG (Liquid Petroleum Gas) may differ in some small aspects from this International Standard. National regulations take precedence.

Gas cylinders — Safe handling

1 Scope

This International Standard specifies requirements for safe handling, use and storage of gas cylinders for permanent, liquefied or dissolved compressed gases. This standard applies to gas cylinder sizes from 0,5 l to 150 l water capacity.

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 listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 32:1977, *Gas cylinders for medical use — Marking for identification of content.*

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

ISO 7225:1994, *Gas cylinders — Precautionary labels.*

ISO/TR 7470:1988, *Valve outlets for gas cylinders — List of provisions which are standardized or in use.*

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

ISO 10286:1996, *Gas cylinders — Terminology.*

ISO 10298:1995, *Determination of the toxicity of gas or gas mixtures.*

ISO 10463:1993, *Cylinders for permanent gases — Inspection at time of filling.*

ISO 11113:1995, *Cylinders for liquefied gases (excluding acetylene and LPG) — Inspection at time of filling.*

ISO 11117:—¹⁾, *Gas cylinders — Valve protection caps and valve guards for industrial and medical gas cylinders — Design, construction and tests.*

ISO 11372:1995, *Cylinders for dissolved acetylene — Inspection at the time of filling.*

ISO 13338:1995, *Determination of the tissue corrosiveness of a gas or gas mixture.*

¹⁾ To be published.