INTERNATIONAL STANDARD

ISO 11113

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Cylinders for liquefied gases (excluding acetylene and LPG) — Inspection at time of filling

Bouteilles à gaz liquéfiés (à l'exception de l'acétylène et du GPL) — Contrôle au moment du remplissage

Reference number
ISO 11113:1995(E)

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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 11113 was prepared by Technical Committee ISO/TC 58, *Gas cylinders*, Subcommittee SC 4, *Operational requirements for gas cylinders*.

Annexes A, B, C and D of this International Standard are for information only.

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Introduction

Transportable gas cylinders require inspection at the time of filling to establish that:

— the cylinder has no serious defects;

— the cylinder can be identified and complies with the relevant requirements with regard to marking, colour coding and completeness of accessories;

— the cylinder valve functions satisfactorily.

The inspection should be carried out only by persons who are competent in the subject and can assure that the cylinder is safe for continued use.

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Cylinders for liquefied gases (excluding acetylene and LPG) — Inspection at time of filling

1 Scope

This International Standard specifies the minimum requirements to verify the integrity of transportable gas cylinders for continued use. These requirements reflect current practice and experience.

This International Standard applies to cylinders of water capacity from 0,5 l to 150 l for the transportation of liquefied gases (excluding acetylene and LPG).

NOTE 1 Many of these general requirements also apply to cylinders of water capacity smaller than 0,5 l.

This International Standard does not apply to manifolded bundles or manifolded trailer cylinders; nor does it deal with inspecting or testing for internal contamination.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was 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 edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 448:1981, *Gas cylinders for industrial use — Marking for identification of content.*

3 Definitions

For the purposes of this International Standard, the following definitions apply.

3.1 filling ratio: Ratio of the mass of gas in a cylinder to water capacity of the cylinder.

It is normally expressed in kilograms per litre.

3.2 filling weight: Maximum mass of liquefied gas allowed to be filled into a given cylinder.

3.3 pressure relief device: Device fitted to the cylinder or cylinder valve and designed to relieve gas pressure in the event of abnormal conditions resulting in the development of pressure in excess of a specified value inside the cylinder.

3.4 cylinder mass: Mass of the cylinder including all permanent attachments, e.g. head ring, neck ring or foot ring, but excluding valve and valve cap or valve guard.

3.5 tare weight: Mass of the cylinder including permanent attachments and other fittings not removed during the filling operation, such as valve, dip tube and any permanently or semipermanently fixed valve protection device.

NOTE 2 The values of the mass and or/tare weight are usually stamped onto a cylinder at the time of manufacture.

4 Filling inspection

Each cylinder shall be submitted to inspection prior to, during and immediately after filling. The following items shall be covered by a filling inspection.

4.1 Prior to filling

— identification of cylinder (see 5.1);

— establishment of cylinder owner, if required (see 5.2);

— establishment of serviceable condition (see 5.3);

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