

SLOVENSKI STANDARD SIST EN ISO 22435:2009

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Plinske jeklenke - Ventili za jeklenke z vgrajenim regulatorjem tlaka - Specifikacija in preskušanje tipa (ISO 22435:2007)

Gas cylinders - Cylinder valves with integrated pressure regulators - Specification and type testing (ISO 22435:2007)

Gasflaschen - Druckminderer in Flaschenventilen - Allgemeine Anforderungen und Baumusterprüfung (ISO 22435:2007) ND ARD PREVIEW

Bouteilles à gaz - Robinets de bouteilles avec détendeur intégré - Spécifications et essais de type (ISO 22435:2007)

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Gas cylinders - Cylinder valves with integrated pressure regulators - Specification and type testing (ISO 22435:2007)

Bouteilles à gaz - Robinets de bouteilles avec détendeur intégré - Spécifications et essais de type (ISO 22435:2007)

Gasflaschen - Druckminderer in Flaschenventilen -Allgemeine Anforderungen und Typprüfung (ISO 22435:2007)

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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 22435:2007 (E)

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EN ISO 22435:2007 (E)

Foreword

This document (EN ISO 22435:2007) 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of an identical text or by endorsement, at the latest by March 2008, and conflicting national standards shall be withdrawn at the latest by March 2008.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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The text of ISO 22435:2007 has been approved by CEN as a EN ISO 22435:2007 without any modification.

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INTERNATIONAL STANDARD

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Gas cylinders — Cylinder valves with integrated pressure regulators — Specification and type testing

Bouteilles à gaz — Robinets de bouteilles avec détendeur intégré — Spécifications et essais de type

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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 document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 22435 was prepared by Technical Committee ISO/TC 58, *Gas cylinders*, Subcommittee SC 2, *Cylinder fittings*.

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Introduction

Cylinder valves with integrated pressure regulators are used to reduce the high cylinder pressure to a lower pressure suitable for use.

These functions cover a wide range of inlet and outlet pressures and flows which require specific design characteristics. It is important that the operating characteristics of these valves be specified and tested in a defined manner.

Such valves are more complicated than conventional cylinder valves yet subject to the same environmental and transportation conditions. These conditions should be borne in mind at the design and development stage.

This International Standard pays particular attention to

- suitability of materials,
- safety (mechanical strength, safe relief of excess pressure and resistance to ignition),
- gas-specificity,
- cleanliness.

testing,

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identification, and

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— information supplied.

Gas cylinders — Cylinder valves with integrated pressure regulators — Specification and type testing

1 Scope

This International Standard applies to cylinder valves with integrated pressure regulators (VIPR) intended to be fitted to gas cylinders that convey compressed, liquefied or dissolved gases.

This International Standard is not intended for medical applications (see ISO 10524-3). Further, additional specific requirements for valves fitted with safety valves and bursting discs (see EN 14513) and for valves fitted with residual pressure valves (see ISO 15996) are not covered by this International Standard.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

(Standards.iteh.ai)

ISO 2503:1998, Gas welding equipment — Pressure regulators for gas cylinders used in welding, cutting and allied processes up to 300 bar

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https://standards.itch.ai/catalog/standards/sist/ee69571c-985e-48fe-b81a-Hose connections for equipment for welding, cutting and allied processes

ISO 5145, Cylinder valve outlets for gases and gas mixtures — Selection and dimensioning

ISO 5171, Pressure gauges used in welding, cutting and allied processes

ISO 7289, Quick-action couplings with shut-off valves for gas welding, cutting and allied processes

ISO 7291:1999, Gas welding equipment — Pressure regulators for manifold systems used in welding, cutting and allied processes up to 300 bar

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

ISO 9090, Gas tightness of equipment for gas welding and allied processes

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

ISO 10920, Gas cylinders — 25E taper thread for connection of valves to gas cylinders — Specification

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

ISO 11114-2, Transportable gas cylinders — Compatibility of cylinder and valve materials with gas contents — Part 2: Non-metallic materials