SLOVENSKI STANDARD
SIST EN ISO 11114-6:2022

01-november-2022

Plinske jeklenke - Združljivost materialov za ventil in jeklenko s plinom - 6. del: Adiabatni tlačni preskus s kisikom (ISO 11114-6:2022)

Gas cylinders - Compatibility of cylinder and valve materials with gas contents - Part 6: Oxygen pressure surge testing (ISO 11114-6:2022)

Gasflaschen - Verträglichkeit von Werkstoffen für Gasflaschen und Ventile mit den in Berührung kommenden Gasen - Teil 6: Sauerstoff-Druckstoßprüfung (ISO 11114-6:2022)

Bouteilles à gaz - Compatibilité des matériaux des bouteilles et des robinets avec les contenus gazeux - Partie 6: Essai de compression adiabatique à l'oxygène (ISO 11114-6:2022)

Ta slovenski standard je istoveten z: **EN ISO 11114-6:2022**

ICS:

23.020.35	Plinske jeklenke	Gas cylinders

SIST EN ISO 11114-6:2022 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 11114-6

September 2022

ICS 23.020.35

English Version

Gas cylinders - Compatibility of cylinder and valve materials with gas contents - Part 6: Oxygen pressure surge testing (ISO 11114-6:2022)

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This European Standard was approved by CEN on 20 August 2022.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN ISO 11114-6:2022) 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of an identical text or by endorsement, at the latest by March 2023, and conflicting national standards shall be withdrawn at the latest by March 2023.

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

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Endorsement notice

The text of ISO 11114-6:2022 has been approved by CEN as EN ISO 11114-6:2022 without any modification.

INTERNATIONAL STANDARD

ISO 11114-6

First edition
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Gas cylinders — Compatibility of cylinder and valve materials with gas contents —

Part 6: Oxygen pressure surge testing

Bouteilles à gaz — Compatibilité des matériaux des bouteilles et des robinets avec les contenus gazeux —

Partie 6: Essai de compression adiabatique à l'oxygène

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee, ISO/TC 58, *Gas cylinders*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 23, *Transportable gas cylinders,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

A list of all parts in the ISO 11114 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

Oxygen pressure surge testing has been required by a number of different product standards covering:

— valves used for gas cylinders, tubes, pressure drums and cylinder bundles;

— residual pressure valves (RPVs);

— self-closing valves;

— industrial and medical valves with integrated pressure regulators (VIPRs);

— industrial and medical pressure regulators;

— hoses.

Oxygen pressure surge testing is also described in other testing standards such as ISO 21010, ASTM G175 and ASTM G74.

NOTE A list of standards is given in the Bibliography.

Requirements for the test facility and test procedures differ from standard to standard due to modifications introduced over the years and lack of coordination. This can result in a need to modify the testing procedures and equipment depending on the product (e.g. valves, hoses, pressure regulators) knowing that the aim of the test remains the same.

This document aims to standardize the test equipment and the test procedure so that, in future, product standards can refer to this document and only give additional requirements, e.g. test pressure, number of test samples needed to be submitted for the test.