



SLOVENSKI STANDARD SIST EN ISO 15995:2021

01-september-2021

Nadomešča:
SIST EN ISO 15995:2019

Plinske jeklenke - Specifikacija in preskušanje ventilov za jeklenke za utekočinjeni naftni plin (UNP) - Ročno upravljanje (ISO 15995:2021)

Gas cylinders - Specifications and testing of LPG cylinder valves - Manually operated (ISO 15995:2021)

Gasflaschen - Spezifikation und Prüfung von Flaschenventilen für Flüssiggas (LPG) - Handbetätigt (ISO 15995:2021)

Bouteilles à gaz - Spécifications et essais pour valves de bouteilles de GPL - Fermeture manuelle (ISO 15995:2021)

<https://standards.iteh.ai/catalog/standards/sist/88069a28-ad54-4096-8fd5-2871a05aac06/sist-en-iso-15995-2021>

Ta slovenski standard je istoveten z: EN ISO 15995:2021

ICS:

23.020.35	Plinske jeklenke	Gas cylinders
23.060.40	Tlačni regulatorji	Pressure regulators

SIST EN ISO 15995:2021 en,fr,de

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 15995:2021](#)

<https://standards.iteh.ai/catalog/standards/sist/88069a28-ad54-4096-8fd5-2871a05aac06/sist-en-iso-15995-2021>

EUROPEAN STANDARD

EN ISO 15995

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2021

ICS 23.020.35

Supersedes EN ISO 15995:2019

English Version

Gas cylinders - Specifications and testing of LPG cylinder valves - Manually operated (ISO 15995:2021)

Bouteilles à gaz - Spécifications et essais pour valves de bouteilles de GPL - Fermeture manuelle (ISO 15995:2021)

Gasflaschen - Spezifikation und Prüfung von Flaschenventilen für Flüssiggas (LPG) - Handbetätigt (ISO 15995:2021)

This European Standard was approved by CEN on 6 June 2021.

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 CEN-CENELEC 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

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

Contents	Page
European foreword.....	3

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 15995:2021](https://standards.iteh.ai/catalog/standards/sist/88069a28-ad54-4096-8fd5-2871a05aac06/sist-en-iso-15995-2021)

<https://standards.iteh.ai/catalog/standards/sist/88069a28-ad54-4096-8fd5-2871a05aac06/sist-en-iso-15995-2021>

European foreword

This document (EN ISO 15995:2021) has been prepared by Technical Committee ISO/TC 58 "Gas cylinders" in collaboration with Technical Committee CEN/TC 286 "Liquefied petroleum gas equipment and accessories" the secretariat of which is held by NSAI.

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 December 2021, and conflicting national standards shall be withdrawn at the latest by December 2021.

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.

This document supersedes EN ISO 15995:2019.

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

iTeh STANDARD PREVIEW
Endorsement notice
(standards.iteh.ai)

The text of ISO 15995:2021 has been approved by CEN as EN ISO 15995:2021 without any modification.

<https://standards.iteh.ai/catalog/standards/sist/88069a28-ad54-4096-8fd5-2871a05aac06/sist-en-iso-15995-2021>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 15995:2021](#)

<https://standards.iteh.ai/catalog/standards/sist/88069a28-ad54-4096-8fd5-2871a05aac06/sist-en-iso-15995-2021>

INTERNATIONAL
STANDARD

ISO
15995

Third edition
2021-06

**Gas cylinders — Specifications and
testing of LPG cylinder valves —
Manually operated**

*Bouteilles à gaz — Spécifications et essais pour valves de bouteilles de
GPL — Fermeture manuelle*

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 15995:2021](https://standards.iteh.ai/catalog/standards/sist/88069a28-ad54-4096-8fd5-2871a05aac06/sist-en-iso-15995-2021)

[https://standards.iteh.ai/catalog/standards/sist/88069a28-ad54-4096-8fd5-
2871a05aac06/sist-en-iso-15995-2021](https://standards.iteh.ai/catalog/standards/sist/88069a28-ad54-4096-8fd5-2871a05aac06/sist-en-iso-15995-2021)



Reference number
ISO 15995:2021(E)

© ISO 2021

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 15995:2021

<https://standards.iteh.ai/catalog/standards/sist/88069a28-ad54-4096-8fd5-2871a05aac06/sist-en-iso-15995-2021>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2021

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Design and specification	4
4.1 General.....	4
4.2 Materials.....	5
4.2.1 General.....	5
4.2.2 Operating temperatures.....	5
4.2.3 Copper alloys.....	5
4.2.4 Non-metallic materials.....	5
4.3 Essential components.....	6
4.3.1 Valve operating mechanism.....	6
4.3.2 Valve body.....	6
4.3.3 Valve stem.....	6
4.3.4 Valve outlet.....	6
4.3.5 Excess flow valve.....	7
4.4 Optional components.....	7
4.4.1 General.....	7
4.4.2 Pressure relief valve.....	7
4.4.3 Eduction tube.....	7
4.4.4 Fixed liquid level gauge.....	7
4.4.5 Excess flow valve.....	7
4.4.6 Non-return valve.....	8
4.4.7 Liquid level indicator.....	8
4.4.8 Sealing cap and sealing plug.....	8
4.4.9 Sediment tube.....	8
4.5 Leak tightness.....	8
4.6 Operating torque.....	8
4.7 Closing torque.....	8
4.8 Opening torque.....	8
5 Valve type test	9
5.1 General.....	9
5.2 Test samples.....	9
5.3 Test procedure and test requirements.....	10
5.4 Inspection.....	11
5.5 Hydraulic pressure test.....	11
5.5.1 Procedure.....	11
5.5.2 Requirement.....	11
5.6 External and internal leak tightness tests.....	11
5.6.1 Procedure.....	11
5.6.2 Requirement.....	12
5.7 Valve stem test.....	12
5.7.1 Procedure.....	12
5.7.2 Requirement.....	13
5.8 Hand wheel fire exposure test.....	13
5.8.1 Procedure.....	13
5.8.2 Requirement.....	13
5.9 Impact test.....	13
5.9.1 General.....	13
5.9.2 Procedure.....	13

ISO 15995:2021(E)

5.9.3	Requirement.....	15
5.10	Excessive closing torque test.....	15
5.10.1	Procedure.....	15
5.10.2	Requirement.....	15
5.11	Excessive opening torque test.....	15
5.11.1	Procedure.....	15
5.11.2	Requirement.....	15
5.12	Endurance test.....	16
5.12.1	Procedure.....	16
5.12.2	Requirement.....	16
5.13	Examination of dismantled valves.....	16
5.13.1	Procedure.....	16
5.13.2	Requirement.....	17
5.14	Excess flow valve test.....	17
5.14.1	General.....	17
5.14.2	Excess flow valve test with air.....	17
5.14.3	Excess flow valve test with water.....	17
5.14.4	Excess flow strength test.....	18
5.15	Non-return valve test.....	18
5.15.1	Procedure.....	18
5.15.2	Requirement.....	18
5.16	Vibration test.....	19
5.16.1	Procedure.....	19
5.16.2	Requirement.....	19
6	Documentation and test report.....	19
6.1	Documentation.....	19
6.2	Test report.....	19
7	Production testing.....	19
8	Markings.....	19
Annex A	(normative) Special valves.....	21
Annex B	(normative) Production testing and inspection.....	22
Annex C	(normative) Special low temperature requirements.....	23
Annex D	(normative) Vibration testing.....	24
Bibliography	25

iTech STANDARD PREVIEW

(standards.iteh.ai)

[SIST EN ISO 15995:2021](#)[https://standards.iteh.ai/catalog/standards/sist/88069a28-ad54-4096-8fd5-](https://standards.iteh.ai/catalog/standards/sist/88069a28-ad54-4096-8fd5-2871a05aac06/sist-en-iso-15995-2021)[2871a05aac06/sist-en-iso-15995-2021](https://standards.iteh.ai/catalog/standards/sist/88069a28-ad54-4096-8fd5-2871a05aac06/sist-en-iso-15995-2021)

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).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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*, Subcommittee SC 2, *Cylinder fittings*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 286, *Liquefied petroleum gas equipment and accessories*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 15995:2019) of which it constitutes a minor revision. The changes compared to the previous edition are as follows:

— correction of [Clause 8](#), list item c).

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.

ISO 15995:2021(E)

Introduction

This document covers the function of a LPG cylinder valve as a closure (defined by the UN Model Regulations^[15]).

This document has been written so that it is suitable to be referenced in the UN Model Regulations.

Cylinder valves complying with this document can be expected to perform satisfactorily under normal service conditions.

When an LPG cylinder valve has been approved according to a previous version of this document, the body responsible for approving the same LPG cylinder valve to this new edition should consider which tests need to be performed.

In this document the unit bar is used, due to its universal use in the field of technical gases. It should, however, be noted that bar is not an SI unit, and that the corresponding SI unit for pressure is Pa (1 bar = 10⁵ Pa = 10⁵ N/m²).

Pressure values given in this document are given as gauge pressure (pressure exceeding atmospheric pressure) unless noted otherwise.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN ISO 15995:2021](https://standards.iteh.ai/catalog/standards/sist/88069a28-ad54-4096-8fd5-2871a05aac06/sist-en-iso-15995-2021)

<https://standards.iteh.ai/catalog/standards/sist/88069a28-ad54-4096-8fd5-2871a05aac06/sist-en-iso-15995-2021>