



SLOVENSKI STANDARD SIST EN ISO 7291:2012

01-januar-2012

Nadomešča:
SIST EN ISO 7291:2002

Oprema za plamensko varjenje - Glavni regulatorji tlaka plina za varjenje, rezanje in sorodne postopke za tlake do 30 MPa (300 bar) (ISO 7291:2010)

Gas welding equipment - Pressure regulators for manifold systems used in welding, cutting and allied processes up to 30 MPa (300 bar) (ISO 7291:2010)

Gasschweißgeräte - Hauptstellendruckregler für Schweißen, Schneiden und verwandte Prozesse bis 30 MPa (300 bar) (ISO 7291:2010)

Matériel de soudage aux gaz - Détendeurs de centrale de bouteilles pour le soudage, le coupage et les techniques connexes jusqu'à 30 MPa (300 bar) (ISO 7291:2010)

Ta slovenski standard je istoveten z: EN ISO 7291:2010

ICS:

23.060.40	Tlačni regulatorji	Pressure regulators
25.160.30	Varilna oprema	Welding equipment

SIST EN ISO 7291:2012 de

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 7291:2012](#)

<https://standards.iteh.ai/catalog/standards/sist/713dedd0-9db8-4114-93d8-dad7c51089be/sist-en-iso-7291-2012>

EUROPEAN STANDARD

EN ISO 7291

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2010

ICS 25.160.30

Supersedes EN ISO 7291:2001

English Version

Gas welding equipment - Pressure regulators for manifold systems used in welding, cutting and allied processes up to 30 MPa (300 bar) (ISO 7291:2010)

Matériel de soudage aux gaz - Détendeurs de centrale de bouteilles pour le soudage, le coupage et les techniques connexes jusqu'à 30 MPa (300 bar) (ISO 7291:2010)

Gasschweißgeräte - Hauptstellendruckregler für Schweißen, Schneiden und verwandte Prozesse bis 30 MPa (300 bar) (ISO 7291:2010)

This European Standard was approved by CEN on 23 October 2010.

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

<https://standards.iteh.ai/catalog/standards/sist/715dedd0-9db8-4114-93d8-dad7c51089bc/sist-en-iso-7291-2012>



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

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

Foreword.....3

**iTeh STANDARD PREVIEW
(standards.iteh.ai)**

SIST EN ISO 7291:2012

<https://standards.iteh.ai/catalog/standards/sist/713dedd0-9db8-4114-93d8-dad7c51089be/sist-en-iso-7291-2012>

Foreword

This document (EN ISO 7291:2010) has been prepared by Technical Committee ISO/TC 44 "Welding and allied processes" in collaboration with Technical Committee CEN/TC 121 "Welding" the secretariat of which is held by DIN.

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 May 2011, and conflicting national standards shall be withdrawn at the latest by May 2011.

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

This document supersedes EN ISO 7291:2001.

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

iTeh STANDARD PREVIEW (standards.iteh.ai)

Endorsement notice

The text of ISO 7291:2010 has been approved by CEN as a EN ISO 7291:2010 without any modification.

[SIST EN ISO 7291:2012](https://standards.iteh.ai/catalog/standards/sist/713dedd0-9db8-4114-93d8-dad7c51089be/sist-en-iso-7291-2012)

<https://standards.iteh.ai/catalog/standards/sist/713dedd0-9db8-4114-93d8-dad7c51089be/sist-en-iso-7291-2012>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 7291:2012](#)

<https://standards.iteh.ai/catalog/standards/sist/713dedd0-9db8-4114-93d8-dad7c51089be/sist-en-iso-7291-2012>

INTERNATIONAL STANDARD

ISO 7291

Third edition
2010-11-01

Gas welding equipment — Pressure regulators for manifold systems used in welding, cutting and allied processes up to 30 MPa (300 bar)

*Matériel de soudage aux gaz — Détendeurs de centrale de
bouteilles pour le soudage, le coupage et les techniques connexes
jusqu'à 30 MPa (300 bar)*

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 7291:2012](https://standards.iteh.ai/catalog/standards/sist/713dedd0-9db8-4114-93d8-dad7c51089be/sist-en-iso-7291-2012)

<https://standards.iteh.ai/catalog/standards/sist/713dedd0-9db8-4114-93d8-dad7c51089be/sist-en-iso-7291-2012>



Reference number
ISO 7291:2010(E)

© ISO 2010

ISO 7291:2010(E)

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN ISO 7291:2012](https://standards.iteh.ai/catalog/standards/sist/713dedd0-9db8-4114-93d8-dad7c51089be/sist-en-iso-7291-2012)

<https://standards.iteh.ai/catalog/standards/sist/713dedd0-9db8-4114-93d8-dad7c51089be/sist-en-iso-7291-2012>

**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2010

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Units	3
4.1 Pressure	3
4.2 Flow	3
4.3 Temperature	3
5 Manufacturing requirements	3
5.1 Materials	3
5.2 Design, machining and assembly	4
6 Physical characteristics	6
6.1 General	6
6.2 Pressures	7
6.3 Flow rates	7
6.4 Operating characteristics	9
7 Marking	10
7.1 Pressure regulator	10
7.2 Pressure relief devices	10
8 Instructions for use	10
9 Type test procedure	11
9.1 General	11
9.2 Test conditions	11
9.3 Functional tests	12
9.4 Tests for mechanical resistance of pressure regulators	14
9.5 Test for durability of markings	18
Bibliography	19

ISO 7291:2010(E)**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 7291 was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 8, *Equipment for gas welding, cutting and allied processes*.

This third edition cancels and replaces the second edition (ISO 7291:1999), which has been technically revised.

Requests for official interpretations of any aspect of this International Standard should be directed to the Secretariat of ISO/TC 44/SC 8 via your national standards body. A complete listing of these bodies can be found at www.iso.org.

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN ISO 7291:2012
<https://standards.iteh.ai/catalog/standards/sist/713dedd0-9db8-4114-93d8-dad7c51089be/sist-en-iso-7291-2012>

Gas welding equipment — Pressure regulators for manifold systems used in welding, cutting and allied processes up to 30 MPa (300 bar)

1 Scope

This International Standard specifies requirements and test methods for pressure regulators in manifold systems used in welding, cutting, and allied processes for:

- a) compressed gases up to 30 MPa¹⁾ (300 bar);
- b) dissolved acetylene;
- c) liquefied petroleum gases (LPG);
- d) methylacetylene-propadiene-mixtures (MPS);
- e) carbon dioxide (CO₂).

It is not applicable to pressure regulators fitted directly to the gas cylinders, as defined in ISO 2503^[2].

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.

ISO 5171, *Gas welding equipment — Pressure gauges used in welding, cutting and allied processes*

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

ISO 9539, *Gas welding equipment — Materials for equipment used in gas welding, cutting and allied processes*

ISO 15296, *Gas welding equipment — Vocabulary — Terms used for gas welding equipment*

1) The value 30 MPa relates to maximum cylinder filling pressure at 15 °C.