



SLOVENSKI STANDARD

SIST EN ISO 7291:2002

01-maj-2002

Nadomešča:
SIST EN 961:1996

Oprema za plamensko varjenje - Glavni regulatorji tlaka plina za varjenje, rezanje in sorodne postopke za tlake do 300 bar (ISO 7291:1999)

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

Gasschweißgeräte - Hauptstellendruckregler für Schweißen, Schneiden und verwandte Prozesse bis 300 bar (ISO 7291:1999)

Matériel de soudage aux gaz - Détendeurs de centrales de bouteilles pour le soudage, le coupage et les techniques connexes jusqu'à 300 bar (ISO 7291:1999)

Ta slovenski standard je istoveten z: EN ISO 7291:2001

ICS:

23.060.40	Tlačni regulatorji	Pressure regulators
25.160.30	Varilna oprema	Welding equipment

SIST EN ISO 7291:2002 en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 7291

August 2001

ICS 25.160.30

Supersedes EN 961:1995

English version

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

Matériel de soudage aux gaz - Détendeurs de centrales de bouteilles pour le soudage, le coupage et les techniques connexes jusqu'à 300 bar (ISO 7291:1999)

Gasschweißgeräte - Hauptstellendruckregler für Schweißen, Schneiden und verwandte Prozesse bis 300 bar (ISO 7291:1999)

This European Standard was approved by CEN on 3 June 2001.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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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 7291:2001 (E)**Foreword**

The text of the International Standard from Technical Committee ISO/TC 44 "Welding and allied processes" of the International Organization for Standardization (ISO) has been taken over as an European Standard by Technical Committee CEN/TC 121 "Welding", the secretariat of which is held by DS.

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 February 2002, and conflicting national standards shall be withdrawn at the latest by February 2002.

This European Standard replaces EN 961:1995.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 7291:1999 has been approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZA (normative).

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Annex ZA (normative)
Normative references to international publications
with their relevant European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 9090	1989	Gas tightness of equipment for gas welding and allied processes	EN 29090	1992
ISO 9539	1988	Materials for equipment used in gas welding, cutting and allied processes	EN 29539	1992

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INTERNATIONAL STANDARD

ISO 7291

Second edition
1999-12-01

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

*Matériel de soudage aux gaz — Détendeurs de centrales de bouteilles pour
le soudage, le coupage et les techniques connexes jusqu'à 300 bar*

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Reference number
ISO 7291:1999(E)

ISO 7291:1999(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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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 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 second edition cancels and replaces the first edition (ISO 7291:1990) which has been technically revised.

Annex A of this International Standards is for information only.

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

1 Scope

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

This International Standard is applicable to pressure regulators normally used for compressed gases up to 300 bar (30 MPa), for dissolved acetylene, methylacetylene-propadiene-mixtures (MPS) and carbondioxide (CO₂), to regulate the pressure at the outlet of high-pressure lines from manifold gas cylinders.

It is not applicable to pressure regulators fitted directly to the gas cylinders, as defined in ISO 2503 or to pressure regulators for liquefied petroleum gases.

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2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 554:1976, *Standard atmospheres for conditioning and/or testing — Specifications.*

ISO 5171:1995, *Pressure gauges used in welding, cutting and allied processes.*

ISO 9090:1989, *Gas tightness of equipment for gas welding and allied processes.*

ISO 9539:1988, *Materials for equipment used in gas welding, cutting and allied processes.*

3 Terms and definitions

For the purposes of this International Standard, the following term and definition apply.

3.1

pressure regulator for manifold systems

device for regulating a generally variable inlet pressure to as constant as possible an outlet pressure, and intended to equip a manifold of cylinders

4 Terminology

Figure 1 shows a diagram of the pressure regulator as an example only. Optional design characteristics shall be compatible with the safety requirements specified in this International Standard.