

Irish Standard I.S. EN ISO 5171:2010

Gas welding equipment - Pressure gauges used in welding, cutting and allied processes (ISO 5171:2009)

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Gas welding equipment - Pressure gauges used in welding, cutting and allied processes (ISO 5171:2009)

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EN ISO 5171:2010 (E)

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EN ISO 5171:2010 (E)

Foreword

The text of ISO 5171:2009 has been prepared by Technical Committee ISO/TC 44 "Welding and allied processes" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 5171:2010 by 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of an identical text or by endorsement, at the latest by September 2010, and conflicting national standards shall be withdrawn at the latest by September 2010.

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I.S. EN ISO 5171:2010 INTERNATIONAL STANDARD

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

Matériel de soudage au gaz — Manomètres utilisés pour le soudage, le coupage et les techniques connexes



ISO 5171:2009(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 2.

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ISO 5171 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 5171:1995), 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 http://www.iso.org/.

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

1 Scope

This International Standard specifies requirements for Bourdon-tube pressure gauges normally used with compressed gas systems at pressures up to 30 MPa (300 bar) in welding, cutting and allied processes. It also covers use for dissolved acetylene and for liquefied gases under pressure.

It does not cover gauges for acetylene in acetylene-manufacturing plants.

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 7-1, Pipe threads where pressure-tight joints are made on the threads — Part 1: Dimensions, tolerances and designation

ISO 228-1, Pipe threads where pressure-tight joints are not made on the threads — Part 1: Dimensions, tolerances and designation

ISO 497, Guide to the choice of series of preferred numbers and of series containing more rounded values of preferred numbers

ISO 4589-2:1996, Plastics — Determination of burning behaviour by oxygen index — Part 2: Ambient-temperature test

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

ISO 10102, Assembly tools for screws and nuts — Double-headed open-ended engineers' wrenches — Length of wrenches and thickness of the heads

ANSI/ASME B1.20.1, Pipe threads, general purpose (inch) 1)

3 Terms and definitions

For the purposes of this document, the following definitions apply.

3.1

Bourdon-tube pressure gauges

device incorporating elastic tube with direct indication by pointer and graduated scale of the pressure being measured

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¹⁾ Published by and available from the American National Standards Institute (ANSI), 11 West 42nd Street, New York, NY 10036.



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