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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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This document replaces:	*This document is based on:*	*Published:*
EN 562:2003	EN ISO 5171:2010 EN 562:2003	24 March, 2010 12 September, 2003

This document was published under the authority of the NSAI and comes into effect on: 5 May, 2010	ICS number: 17.100 25.160.30

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NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 5171

March 2010

ICS 17.100; 25.160.30

Supersedes EN 562:2003

English Version

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

Matériel de soudage au gaz - Manomètres utilisés pour le soudage, le coupage et les techniques connexes (ISO 5171:2009)

Gasschweißgeräte - Manometer für Schweißen, Schneiden und verwandte Prozesse (ISO 5171:2009)

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Contents

Page

Foreword.....3

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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of an identical text or by endorsement, at the latest by September 2010, and conflicting national standards shall be withdrawn at the latest by September 2010.

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INTERNATIONAL STANDARD

ISO 5171

Third edition
2009-05-15

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

Reference number
ISO 5171:2009(E)

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Contents

Page

Foreword ... iv

1 Scope ... 1

2 Normative references ... 1

3 Terms and definitions ... 1

4 Pressure ... 2
4.1 Unit of pressure ... 2
4.2 Maximum scale reading ... 2
4.3 Maximum pressure mark ... 2

5 Manufacturing requirements ... 3
5.1 Materials ... 3
5.2 Design and dimensions ... 3

6 Safety ... 8

7 Marking ... 8

8 Tests ... 8
8.1 General ... 8
8.2 Design and manufacturing standard ... 9
8.3 Accuracy ... 9
8.4 Torsion test ... 10
8.5 Bend test ... 10
8.6 Case vent test ... 11
8.7 Overpressure test ... 12
8.8 Flammability test ... 12

Bibliography ... 13

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Foreword

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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/.

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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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