

ICS 17.100  
CCS N 11



**NATIONAL STANDARD OF THE  
PEOPLE'S REPUBLIC OF CHINA**

**GB/T 25112-2010**

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**Pressure gauge used in welding, cutting and allied processes**

焊接、切割及类似工艺用压力表

**(English Translation)**

**Issued on: September 2, 2010**

**Implemented on: December 1, 2010**

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**Issued by: Standardization Administration of China**

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## Foreword

This revised standard adopts ISO 5171:1995 "Welding, cutting and similar processes with a pressure gauge." Taking into account China's national conditions and the laws of this standard in the use of international standards have been modified, these technical differences identified in a single vertical line They are involved in terms of margin, and lists the technical differences and their reasons in the list in Appendix A for reference.

For ease of use, this standard also made the following editorial changes.

--- "This International Standard" be replaced by "this standard";

"," --- With a decimal point instead of a comma as the decimal point, "";

--- Deleted international standards foreword.

Appendix A of this standard is an informative annex.

The standard proposed by China Machinery Industry Federation.

This standard by the national industrial process measurement and control Standardization Technical Committee (SAC/TC124) centralized.

## 1 Scope

This standard specifies the welding, cutting and allied processes gauge of terms and definitions, technical requirements, safety, marking and testing requirements.

This standard applies to 30MPa pressure of the compressed gas, and liquefied petroleum gas and liquefied acetylene welding, cutting and allied processes Bourdon tube pressure Gauge. This standard does not apply to manufacturers of acetylene pressure gauge acetylene production process used.

## 2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 196 common thread basic size (GB/T 196-2003, ISO 724:1993, MOD) GB/T 2406.2-2009 Plastics - Determination of burning behavior by oxygen index - Part 2 Method. room temperature test (ISO 4589-2:1996, IDT) GB/T 7306.1 55 ° sealing pipe threads - Part 1. the inner cylindrical thread and taper external thread (GB/T 7306.1-2000, eqv ISO 7-1:1994) GB/T 7306.2 55 ° sealing pipe thread Part 2. internal Taper internal and external threads (GB/T 7306.2-2000, eqv ISO 7-1:1994) GB/T 7307 55 ° non-sealing pipe thread

(GB/T 7307-2001, eqv ISO 228-1:1994) GB/T 19764 priority number and priority number of the entire value range of Selection Guide (GB/T 19764-2005, ISO 497. 1973, IDT)

### 3 Terms and Definitions

The following terms and definitions apply to this standard.

Bourdon tube pressure gauge the spring tube deformation, measured pressure by means of a pointer and dial direct instructions.

Case case

Spring tube accommodating housing member and the transmission mechanism and the like.

Pressure relief device ventorblowoutdevice Located in a secure device case or back cover to quickly release the spring after hose rupture due to internal case the accumulated pressure.

Table glass window

You can dial transparent surface observations.

Dial dial

Used to identify the scale plate or surface.