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

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**Specification for selection and installation of pressure gauges
for industrial process measurement and control
(English Translation)**

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Foreword

Drafting.

1 Scope

This document specifies the selection, transportation and storage, installation, use and maintenance of pressure gauges used for measurement and control in industrial processes to ensure... Its functions, performance, safety, and lifespan meet the expected requirements, and the basic standards that need to be followed.

This document applies to mechanical pointer-type pressure gauges that use Bourdon tubes (C-tubes, coiled spring tubes, spiral tubes), diaphragms, or sheet metal as elastic elements.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies to this document.

GB/T 1226-2017 General Pressure Gauges

GB/T 4208 Degrees of protection provided by enclosures (IP code)

GB/T 17212 Terms and Definitions for Measurement and Control in Industrial Processes

GB/T 20217 Procedures for ensuring the cleanliness of industrial process measurement and control equipment for oxygen use

JB/T 5491 Diaphragm Pressure Gauge

JB/T 9274 Diaphragm Capsule Pressure Gauge

3 Terms and Definitions

The terms and definitions defined in GB/T 17212 and the following terms and definitions apply to this document.

3.1 Selection

Based on the intended operating or usage conditions, a reasonable selection should be made regarding the type, material, and technical specifications of the instrument, ensuring that the selected instrument... Technical activities that ensure that functions, performance, safety, lifespan, etc., meet expected requirements.

3.2 Over pressure

An overload condition where the actual working pressure on the instrument is outside the measurement range.

3.3 Overpressure protector

Typically installed in front of the instrument, it is equipped with the function of automatically shutting off when the working pressure exceeds a preset value and automatically restarting when the working pressure returns to the preset value.

A device that allows the instrument to be turned on to protect it from overvoltage damage.

3.4 Siphon condenser coil

Installed before the instrument, its annular structure stores condensate to isolate the high-temperature process medium and lower the instrument's actual operating temperature.