

ICS 91.140
CCS P47



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

GB 27791-2020

Replacing GB 27791-2011

City gas pressure regulating installation

城镇燃气调压箱

Issued on: November 17, 2020

Implemented on: December 1, 2021

**Issued by: State Administration for Market Regulation;
Standardization Administration of China**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1:1-2009: This standard replaces GB 27791-2011 "Urban Gas Surge Box": Compared with GB 27791-2011, the main technical changes are as follows:

- Modified the scope (see Chapter 1, Chapter 1 of the:2011 edition);
- Modified the terminology of the gas surge tank (see 3:1, 3:1 in the:2011 edition);
- Modified the definition of the term "rated flow" (see 3:3, 3:3 in the:2011 edition);
- Added the term "maximum inlet working pressure" (see 3:5);
- Modified the model establishment (see Chapter 4, Chapter 4 of the:2011 edition);
- Modified the structure and materials (see Chapter 5, Chapter 5 of the:2011 edition);
- The technical level of non-destructive testing has been added (see 6:2);
- Modified the test pressure of the air tightness test (see 6:4, 6:4 in the:2011 edition);
- Modified the setting error of the starting pressure of the safety device (see 6:6, 6:6, 6:7 of the:2011 edition);
- Modified the insulation performance (see 6:9, 6:10 in the:2011 edition);
- Modified the non-destructive testing method and ratio (see 7:3:4, 7:3:4 in the:2011 edition);
- Added the disposal method for non-destructive testing unqualified (see 7:3:8);
- Modified the strength test (see 7:4, 7:4 in the:2011 edition);

1 Scope

GB 27791-2020 is the Chinese national standard on city gas pressure regulating installation, in the field of construction materials and building. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 17 November 2020 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 December 2021. Classification: ICS 91.140, CCS P47. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the model, structure and materials, requirements, test methods, and inspection of gas pressure regulator boxes for urban gas (hereinafter referred to as "pressure regulator boxes") Inspection rules, quality certification documents, signs, packaging, transportation and storage: This standard applies to imported working pressure not greater than 10.0MPa, and the working temperature range is greater than -20 °C, less than or equal to 60 °C The surge tank: This standard does not apply to underground surge tanks:

2 Normative references

The following documents are indispensable for the application of this document: For dated reference documents, only the dated version applies to this article Pieces: For undated references, the latest version (including all amendments) applies to this document:

GB/T 150 (all parts) pressure vessel GB/T 151 heat exchanger GB/T 3098:

1 Mechanical properties of fasteners bolts, screws and studs GB 3836:

1 Explosive environment Part 1: General requirements for equipment GB 3836:

4 Explosive atmosphere Part 4: Equipment protected by intrinsically safe "i"

GB/T 5310 Seamless steel pipe for high pressure boiler

GB/T 6479 Seamless steel pipe for high pressure fertilizer equipment

GB/T 6968 diaphragm gas meter

GB/T 8163 Seamless steel pipe for conveying fluid

GB 8624 Classification of burning performance of building materials and products GB/T 9124:

1 Steel pipe flanges Part 1: PN series GB/T 9124:

5 Pressure Piping Specification Industrial Piping Part 5: Inspection and Testing

GB/T 25198 Pressure Vessel Head

GB 27790 Town Gas Regulator

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