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

GB 27898.4-2025

Replacing GB 27898.4-2011

**Fixed water supply equipment used for fire-protection - Part 4:
Gas driven fixed water supply equipment used for
fire-protection**

固定消防给水设备 第4部分：消防气体顶压给水设备

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. This document is Part 4 of GB 27898 "Fixed Fire Water Supply Equipment". GB 27898 has the following parts published.

- 1. Firefighting Pneumatic Water Supply Equipment;
- 2. Automatic Constant Pressure Water Supply Equipment for Firefighting;
- 3. Fire-fighting pressurized and stabilized water supply equipment;
- 4. Firefighting Gas Pressurized Water Supply Equipment;
- 5. Firefighting Dual-Power Water Supply Equipment This document replaces GB 27898.4-2011 "Fixed Fire Water Supply Equipment Part 4. Fire Gas Pressurized Water Supply Equipment", and is consistent with... Compared with

GB 27898.4-2011, apart from structural adjustments and editorial changes, the main technical changes are as follows:

- Added the terms "centralized pressure-reducing type fire-fighting gas pressure-pressurized water supply equipment", "decentralized pressure-reducing type fire-fighting gas pressure-pressurized water supply equipment", and "gas shut-off equipment". "device", "pressure water tank", "firefighting rated working pressure", "makeup water volume", "upper limit of stabilizing pressure", "lower limit of stabilizing pressure", "equipment maximum" "High working pressure" and "exhaust device" and their definitions (see Chapter 3);
- The terms "general-purpose fire-fighting gas pressure-pressurized water supply equipment" and "non-pressure-stabilized fire-fighting gas pressure-pressurized water supply equipment" and their definitions have been deleted (see [link]). (2011 edition,
- The definition of the term "fire-fighting gas pressurized water supply equipment" has been changed (see 3.1,.2011 edition of 3.1);
- Product classification and model designation have been changed (see Chapter 4, Chapter 4 of the.2011 edition);
- The requirements for "components" have been changed (see 5.2.2,.2011 version 5.2.2);
- The requirement for "regulated operation" has been changed (see 5.4.1,.2011 version 5.4.1);

1 Scope

GB 27898.4-2025 is the Chinese national standard on fixed water supply equipment used for fire-protection - part 4: gas driven fixed water supply equipment used for fire-protection, in the field of environment and health protection, safety. 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 31 October 2025 by the State Administration for Market Regulation; Standardization Administration of China, and takes effect on 1 November 2026. Classification: ICS 13.220.10, CCS C84. 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 document specifies the classification, requirements, test methods, inspection rules, nameplates, and operating instructions for fire-fighting gas pressurized water supply equipment, as well as its packaging. Loading, transporting and storing. This document applies to fire-fighting gas pressurized water supply equipment.

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. This document.

GB/T 150 (All Parts) Pressure Vessels

GB/T 1226 General Pressure Gauges

GB/T 1227 Precision Pressure Gauges

GB/T 5099.1 Seamless steel gas cylinders - Part

1. Steel cylinders with a tensile strength of less than 1100 MPa after quenching and tempering.

GB/T 5100 Steel Welded Gas Cylinders

GB 5135.6 Automatic sprinkler systems - Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 In fire-fighting operation, compressed gas is depressurized and then injected into the pressure water tank, displacing the fire-fighting water stored in the tank, and filling it with the rated water within a specified time. Water supply equipment that supplies fire-fighting water to the fire-fighting pipeline network under working pressure.

Note. It is usually composed of components such as a pressure tank and accessories, a pressure stabilizing pump set, a top pressure system, pipeline valves and accessories, measuring and control instruments, and a control cabinet.

3.2 gas driven system In fire-fighting gas pressurized water supply equipment, the general term refers to the components related to the storage, monitoring, pressure reduction, and release of compressed gas.

3.3 The compressed gas in the top-pressure system is collected from the gas storage cylinder group and then concentrated and depressurized before being filled into the pressure water tank. This is a fire-fighting gas top-pressure water supply equipment.

6 General valves

GB/T 8979 Pure Nitrogen, High-Purity Nitrogen and Ultra-Purity Nitrogen