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

GB 4452-2026

Replacing GB 4452-2011

Outdoor fire hydrant

室外消火栓

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Table of Contents

1.Scope	1
2 Normative References	1
3.Terms and Definitions	1
4.Classification and Model	2
4.1 Types and Specifications	2
4.2 Model	2
5.Technical Requirements	3
5.1 Structure	3
5.2 Materials	3
5.3 Appearance Quality	3
5.4 Thread	4
5.5 Switch Direction	4
5.6 Opening Height	4
5.7 Inlet Connection Dimensions	4
5.8 Sealing performance	4
5.9 Water pressure strength	4
5.10 Wastewater Discharge Device	4
5.11 Fire interface	4
5.12 Collision resistance	5
5.13 Voltage regulation performance	5
5.14 Voltage reduction and stabilization performance	5
5.15 Tilt Angle Monitoring Performance	5
5.16 Pressure monitoring performance	5
5.17 Valve Opening Monitoring Function	5
5.18 Location information display function	5
5.19 Flow monitoring performance	5
5.20 High and low temperature resistance	5
5.21 Constant Humidity and Heat Performance	6
5.22 Vibration and impact resistance performance	6
5.23 Enclosure protection performance	6
5.24 Electrostatic Discharge Immunity Performance	6
5.25 Radio Frequency Electromagnetic Field Radiation Immunity Performance	6

5.26 Folding performance	6
5.27 Fire hydrant wrench	6
6.1 Structural Inspection	6
6.2 Material Inspection	6
6.3 Appearance Quality Inspection	7
6.4 Thread Inspection	7
6.5 Switch direction check	7
6.6 Initiate height check	7
6.7 Inlet connection dimension inspection	7
6.8 Sealing performance test	7
6.9 Hydrostatic Strength Test	7
6.10 Inspection of residual water discharge device	7
6.11 Fire interface inspection	7
6.12 Collision resistance performance test	7
6.13 Voltage regulation performance test	8
6.14 Voltage Reduction and Stabilization Performance Test	8
6.15 Tilt Angle Monitoring Performance Test	9
6.16 Pressure monitoring performance test	9
6.17 Valve Opening Monitoring Function Test	9
6.18 Location information display function check	9
6.19 Flow monitoring performance test	9
6.20 High and low temperature resistance	9
6.21 Constant Humidity and Heat Performance Test	9
6.22 Vibration and Impact Resistance Test	9
6.23 Enclosure protection performance	10
6.24 Electrostatic discharge immunity performance	10
6.25 Radio frequency electromagnetic field immunity performance	10
6.26 Folding performance test	10
6.27 Fire hydrant wrench test	10
6.28 Hydrostatic testing apparatus	10
7. Inspection Rule	11
7.1 Type Testing	11
7.2 Factory Inspection	11
8. Mark	12

13 Appendix A (Normative) Fire Hydrant Wrench 14 A.1 Product Category 14 A.2 Model Numbering 14 A.3 Technical Requirements 14 A.4 Test Method.....	16
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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 replaces GB 4452-2011 "Outdoor Fire Hydrants". Compared with GB 4452-2011, the main differences are structural adjustments and editorial changes. In addition, the main technological changes are as follows:

- a) Some terms and definitions have been added (see Chapter 3, Chapter 3 of the.2011 edition);
- b) The type and specifications have been changed (see 4.1,.2011 edition of 4.1);
- c) The model designation method has been changed (see 4.2,.2011 version 4.2);
- d) The material requirements for hose connections and suction pipe connections have been changed (see 5.2.2,.2011 version 5.2.2);
- e) Added technical requirements and test methods for the switching direction (see 5.5, 6.5);
- f) The technical requirements for inlet connection dimensions have been changed (see 5.7, 5.6 in the.2011 edition);
- g) The technical requirements for voltage reduction and stabilization performance have been changed (see 5.14, 5.13 in the.2011 edition);
- h) Performance requirements and test methods for intelligent fire hydrants have been added (see 5.15~5.25, 6.15~6.25);
- i) The inspection rules have been changed (see Chapter 7, Chapter 7 of the.2011 edition);
- j) The basic dimensions of the underground fire hydrant wrench have been changed (see A.3.1, B.3.1 of the.2011 edition). Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed and is under the jurisdiction of the State Fire and Rescue Administration. The release history of this document and the document it replaces is as follows:

1 Scope

GB 4452-2026 is the Chinese national standard on outdoor fire hydrant, 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 28 January 2026 by the State Administration for Market Regulation; Standardization Administration of China, and takes effect on 1 February 2027. 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 defines the terminology for outdoor fire hydrants; and specifies the classification and models, technical requirements, inspection rules, markings, and packaging of outdoor fire hydrants. The description of the corresponding experimental methods is as follows: This document applies to various outdoor fire hydrants and fire hydrant wrenches in fire water supply pipelines.

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 197 Tolerances for Standard Threads

GB/T 230.1 Metallic materials - Rockwell hardness test - Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 fire hydrant firehydrant A device for fire-fighting water supply or foam solution, consisting of valves, outlets, and a housing, connected to a water supply pipeline.

3.2 Fire hydrants installed in the open air.