

ICS 13.220.10

CCS C84



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

GB 5135.4-2025

Replacing GB 5135.4-2003

**Automatic sprinkler system - Part4: Dry pipe valves and
accelerator**

自动喷水灭火系统 第4部分：干式报警阀、加速器

Issued on: October 31, 2025

Implemented on: November 1, 2026

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

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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 5135 "Automatic Sprinkler Systems". GB 5135 has already published the following parts.

- 1. Sprinkler Heads;
- 2. Wet alarm valves, delay devices, and hydraulic alarm bells;
- 3. Water Mist Nozzles;
- 4. Dry Alarm Valves;
- 5. Deluge Alarm Valve;
- 6. General Valves;
- 7. Water Flow Indicators;
- 9. Early Suppression Fast Response (ESFR) Nozzles;

- 10. Pressure Switches;
- 11. Grooved Pipe Fittings;
- 13. Water Curtain Nozzles;
- 14. Pre-action device;

1 Scope

GB 5135.4-2025 is the Chinese national standard on automatic sprinkler system - part 4: dry pipe valves and accelerator, 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 defines the terminology and definitions for dry-type alarm valves and accelerators in automatic sprinkler systems, and specifies the requirements for dry-type alarm valves and accelerators. The classification and designation, model designation, requirements, inspection rules, marking and instructions for use, packaging, transportation and storage, and the corresponding test methods are described. This document applies to the design, manufacture, and inspection of dry alarm valves and accelerators in automatic sprinkler systems.

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 5135.11 Automatic sprinkler systems - Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 dry pipe valve Gas is supplied to the valve system at a predetermined pressure. When the gas pressure on the system side falls below a certain value, water can automatically flow into the system and an alarm will be triggered. A one-way control valve for an

automatic sprinkler fire extinguishing system.

3.2 Differential-type dry pipe valve The system is supplied with gas at a predetermined pressure, and the gas acts directly or indirectly on the valve disc assembly to keep the valve in the closed position. Alarm valve (3.1).

3.3 Mechanical dry-type alarm valve The system is supplied with gas at a predetermined pressure. The gas does not act on the valve disc assembly; instead, a mechanical amplification mechanism keeps the valve in the closed position. Dry alarm valve (3.1).

3.4 readycondition When the dry alarm valve (3.1) is installed in the system, the outlet side of the valve is filled with gas at a predetermined pressure, and the water supply side of the valve is filled with...

4 Dry alarm valves" and GB 5135.8-2003. "Automatic Sprinkler Systems - Part

8.Accelerators" differs from GB 5135.4-2003 and GB 5135.8-2003 except for structural adjustments. Aside from editorial changes, the main technical changes are as follows:

---Some terms and definitions have been changed (see 3.1, 3.2, 3.6, 3.7, 3.8, 3.9, 3.12, 3.13; and 3.1, 3.2, 3.6,

3.7 of the.2003 edition). 3.8, 3.9, 3.12, 3.13);

---Added some terms and definitions (see 3.14);

---Added product classification and codes, and model designation (see Chapters 4 and 5);

---Added a "flag" (see 6.1.2);

---The "Specifications" have been revised, removing the description of the valve seat ring diameter and the requirements regarding clearance (see 6.2,

4.2 in the.2003 edition);

---The "rated working pressure" has been changed to clarify that "the rated working pressure should be either 1.2MPa or 1.6MPa, both nominal pressures." The requirement for "dry-type alarm valves when assembled and used with equipment of lower working pressure rating" has been removed (see 6.3,.2003 edition). 4.3);

---The "Material Corrosion Resistance" setting has been changed. The corrosion resistance of the valve body and valve cover has been changed from "not less than cast iron" to "not less than ductile iron". The addition of "iron" increases the material requirements for accelerators (see 6.4,

4.4 in the.2003 edition);

---Added "Structure, Clearance and Drainage" (see 6.5);