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

中华人民共和国国家标准

GB 5135.2-2003

**Automatic sprinkler system—Part 2:Wet system
alarm valves, retard chamber, water motor alarm**

自动喷水灭火系统

第 2 部分：湿式报警阀、延迟器、水力警铃

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China**

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Foreword

Clause 4 and clause 6 in this part are mandatory and the rest are recommended.

GB 5135 Automatic sprinkler system is divided into 15 parts:

- Part 1: Sprinkler
- Part 2: Wet system alarm valves、retard chamber、water motor alarm
- Part 3: Water mist nozzles
- Part 4: Dry pipe valves
- Part 5: Deluge alarm valves
- Part 6: Convention valve
- Part 7: Water flow indicator
- Part 8: Accelerator
- Part 9: Early Suppression Fast Response (ESFR) Automatic Sprinklers
- Part 10: Pressure switch
- Part 11: Grooved couplings and fittings
- Part 12: Extended coverage sprinkler
- Part 13: Performance requirements and test methods of drencher head
- Part 14: Preaction devices
- Part 15: Domestic sprinklers

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This part is the second part of GB 5135 and the revision was done mainly by referring to ISO/WD6182.2 *Automatic sprinkler system requirements test method of wet system alarm valves* (English version in 2000)

This part has replaced GB 797-1989 *Automatic sprinkler systems performance requirements and methods of test for wet system alarm valves*.

The major changes in this part are the following compared with GB 797-1989:

- Modified part of definition;
- Rewrote the requirements in the standard in detail;
- The grade of "rated working pressure" and the range of "nominal diameter" of wet system alarm valves have been expanded by the basic parameters in clause 4;
- Added "the line set of alarm test" in Clause 4;

- Added requirements for “space among wet system alarm valves”;
- Supplemented the performance of “leakage and deformation” and added requirements for Butterfly-type wet system alarm valves;
- Improved and supplemented the "connection dimensions";
- Added the curve requirements for "hydraulic friction"
- Modified the “function of alarm” and added requirements for pressure switches.
- Added requirements for “water resistance of hydraulic alarm”;
- Added “test methods” corresponding to part of “requirements”
- Move the “primary seal valve” to Annex
- Modified the "inspection rules;
- Added requirements for "labeling, packaging, transportation and storage"

The Annex A and Annex B are normative annex and Annex C is informative annex.

The Ministry of Public Security of the People’s Republic of China proposes this part.

This part is under the jurisdiction of the second technical committee of The national fire standardization technical committee (CSBTS/TC 113/SC 2) .

Drafting units of this standard: Tianjin Fire Research Institute of Ministry of Public Security and Fire Department of Zhejiang Provincial Public Security.

Main drafters of this standard: Yang Zhenming, Bai Diantao, Chui Fengying, Chen Zemin, Yan Xiaolong and Chi Lifa.

Previous versions that this standard replaces are as follows:

- GB 797-1989.

Automatic sprinkler system

Part 2: Wet system alarm valves, retard chamber, water motor alarm

1 Scope

The part specifies requirements, test method, inspection rules, labeling, packaging, transportation and storage of wet alarm valves, retard chamber and water motor alarm of automatic sprinkler system.

This part applies to wet alarm valve, retard chamber and water motor alarm in automatic sprinkler system.

2 Normative references

The articles contained in the following documents have become this part of GB 5135 when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this part. For the undated documents so quoted, the latest editions shall be applicable to this part.

GB/T 3098.1 Mechanical properties of fasteners—Bolts, screws and studs

GB/T 3098.2 Mechanical properties of fasteners—Nuts—Coarse thread

GB/T 3098.3 Mechanical properties of fasteners—Set screws

GB/T 3287 Malleable cast iron pipe fittings

GB/T 9112 Types and parameters for steel pipe flanges

GA 29 Performance requirements and test methods of pressure switch for firefighting

3 Terms and definitions

For the purpose of this part of GB 5135, the following terms and definitions apply.

3.1

Wet alarm valve

A non-return valve which only allows water to flow into the wet fire extinguishing system and drives supporting parts to alarm under required pressure and required flow.

3.2



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