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

GB 5135.17-2011

Automatic sprinkler system - Part 17: Pressure reducing valves

自动喷水灭火系统 第17部分：减压阀

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14 Elongation at break 400% Compression set (70 °C x 22h)%

20 Resistance to liquids (water) Elongation at break change (70 °C x 70h) % ≥ -20

Foreword

GB section 5135 Chapter 5, Chapter 6, Section 8 and

9.1 are mandatory, the rest are recommended. GB 5135 "automatic sprinkler system" has been divided into 21 sections.

- Part 1. Sprinklers;
- Part 2. Wet alarm valves, retard, water alarm;
- Part 3. spray nozzle;
- Part 4. Dry alarm valve;
- Part 5. deluge alarm valve;
- Part 6. General Valve;
- Part 7. flow indicator;
- Part 8. Accelerator;
- Part 9. Early Suppression Fast Response (ESFR) sprinklers;
- Part 10. Pressure Switch;
- Part 11. grooved pipe fittings;
- Part 12. Extending coverage product sprinklers;

1 Scope

GB 5135.17-2011 is the Chinese national standard on automatic sprinkler system - part 17: pressure reducing valves, 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 20 July 2011 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 November 2011. Classification: ICS 13.220.20, 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.

GB 5135 of the provisions of this part of the sprinkler system valve terminology and definitions, classification, model designation, requirements, testing Party Method, inspection rules and signs, packaging, transportation, storage and so on. This section applies to automatic sprinkler system in a direct-acting and pilot-operated relief valve.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 191 Packaging - Pictorial signs

GB/T 528 Determination of vulcanized rubber or thermoplastic rubber tensile stress-strain properties

GB/T 1690 vulcanized rubber or thermoplastic rubber Test method for resistance to liquids Part 11

GB 5135.11 sprinkler system. grooved pipe fittings

GB/T 7306 (all parts) 55 ° sealing pipe thread

GB/T 7759 vulcanized rubber, thermoplastic rubber at room temperature, high and low temperature compression set determination

GB/T 9112 steel pipe flanges with type parameters

GB/T 9969 General Instructions industrial products

GB/T 12220 Universal Valve logo

GB/T 17241.6 whole cast iron flanges

HG/T 2580 Rubber or plastic coated fabrics - Measurement of tensile strength and elongation at break of

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Valve pressurereducingvalve Automatic sprinkler system, through its structural components to achieve when the inlet pressure and outlet flow change in the pressure drops below a certain need The outlet pressure of the valve.

3.2 Pilot valve pilot-operatedpressurereducingvalve Automatic sprinkler system, from the main valve and pilot valves, main valve outlet pressure changes by amplifying pilot valve controls the main valve valve movement Pressure relief valve.

3.3 Direct acting valve direct-actingpressurereducingvalve Automatic sprinkler system, the

use of direct control valve outlet pressure changes the valve movement.

3.4 Rated working pressure ratedworkingpressure Maximum normal operating pressure relief valve inlet pressure allowed.

3.5 Starting flow startingflow When the valve to work properly, exports began to increase from zero flow, no flow outlet pressure decreased significantly when.

3.6 HIP liter staticpressurerise When the valve to work properly, the outlet flow from the starting flow slowly close to zero, the outlet pressure of appreciation.

3.7 Setting outlet pressure outletsetpressure When the valve normally work effectively, the pressure at the inlet and the outlet of the rated working pressure for the case where the flow of starting flow rate, a pressure reducing valve Port working pressure. Setting outlet pressure is adjustable.

3.8 Maximum flow maximumflow An inlet valve for the rated pressure relief valve is set within the normal working pressure range can reach the upper limit of the flow at the outlet.

3.9 Minimum pressure minimumpressuredifferential When the valve normal operation, inlet and outlet pressure can achieve a minimum difference.

3.10 Pressure characteristics pressurecharacteristics When the valve to work properly, ensure that exports flow under the premise of maximum flow, inlet pressure changes, the outlet pressure and the inlet pressure Functional relationship between.

3.11 Flow characteristics flowcharacteristics When the valve to work properly, ensure the inlet pressure under the premise of the rated working pressure, the flow rate changes, the outlet pressure and flow function relationship. Category 4

4.1 Press valve sensor can be divided into.

a) diaphragm valve, represented by the symbol M;

6.1 Appearance quality

6.1.1 The valve should be clearly marked, flat and smooth surface without bumps and scratches processing defects, coating evenly.

6.1.2 The valve should be provided with the outer surface of the permanent signs and symbols which shall comply with the provisions of 9.1.

6.2 Specifications Importers valve nominal diameter of 40mm, 50mm, 65mm, 80mm, 100mm, 125mm, 150mm, 200mm, 250mm, 300mm.

6.3 Rated Operating Pressure Valve rated working pressure should not be less than 1.2MPa.