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

GB 5135.11-2025

Replacing GB 5135.11-2006

**Automatic sprinkler systems - Part 11: Grooved pipe couplings
and fittings**

自动喷水灭火系统 第11部分：沟槽式管接件

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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 11 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 5135.11-2025 is the Chinese national standard on automatic sprinkler systems - part 11: grooved pipe couplings and fittings, 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 grooved pipe fittings in automatic sprinkler systems, and specifies the classification and models of grooved pipe fittings. It outlines the requirements for preparation, inspection rules, marking, instructions for use, packaging, transportation, and storage, and describes the corresponding test methods. This document applies to the design, production, and inspection of grooved pipe fittings 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/T 191 Packaging and Storage Graphic Symbols

GB/T 228.1 Metallic materials - Tensile testing - Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 The general term for grooved pipe fittings and grooved pipe joints.

3.2 Grooved pipe couplings A assemblies used for quick connection of grooved pipes or fittings.

3.3 Grooved fittings Grooved pipe connection systems utilize pipes with annular grooves at the ends to match the pipe diameter, including elbows, tees, crosses, reducers, etc.