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

GB 27898.3-2011

**Fixed water supply equipment used for fire-protection - Part 3:
Pressure boosting and stabilizing type water supply equipment**

固定消防给水设备 第3部分：消防增压稳压给水设备

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1 Scope

This part of GB 27898 specifies the classification and model designation, the requirements, the test methods, the inspection rules and the nameplate and instructions for use of fire-fighting pressure boosting and pressure stabilizing water supply equipment.

It applies to the design, manufacture and repair of fixed fire-fighting pressure boosting and pressure stabilizing water supply equipment driven by low voltage motors.

2 Normative references

The following documents are indispensable to the application of this document. For dated references, only the edition bearing the date applies; for undated references, the latest edition (including any amendments) applies.

GB/T 150 (all parts) Pressure vessels · GB/T 528 Rubber, vulcanized or thermoplastic - Determination of tensile stress-strain properties · GB/T 1226 General purpose pressure gauges · GB/T 1227 Precision pressure gauges · GB/T 3047.1 Basic dimensions of panels, racks and cabinets in increments of 20 mm · GB/T 4208 Degrees of protection provided by enclosures (IP code) · GB 5135.6 Automatic sprinkler systems - Part 6: General purpose valves · GB 5135.7 Automatic sprinkler systems - Part 7: Water flow indicators · GB 5135.10 Automatic sprinkler systems - Part 10: Pressure switches · GB 5135.11 Automatic sprinkler systems - Part 11: Grooved pipe fittings · GB 6245 Fire pumps · GB/T 9969 General principles for the preparation of instructions for use of industrial products · GB 27898.1 Fixed water supply equipment used for fire-protection - Part 1: Pneumatic type water supply equipment

Classification and requirements

Clause 4 sets the classification of the equipment and the method of forming the model designation. Clause 5 carries the requirements: first the performance the set as a whole must reach, then the requirements on each component in turn - the pump to GB 6245, the pressure vessel to the GB/T 150 series, the valves, water flow indicator, pressure switch and grooved fittings to the corresponding parts of GB 5135, the control cabinet with its enclosure protection to GB/T 4208 and its dimensions to GB/T 3047.1, the pressure gauges to GB/T 1226 and GB/T 1227, and the elastomeric parts to GB/T 528.

The drive and control device follows the fire service rule for the drive and control devices of fixed extinguishing systems, and the whole set is designed to work alongside the pneumatic type equipment of GB 27898.1 in the same series.

Testing, inspection and marking

Clause 6 gives the test methods corresponding to the requirements, clause 7 the inspection rules with the classification of inspection, the type inspection and the factory inspection and their acceptance criteria, and clause 8 the content of the nameplate and of the instructions for use, the latter following GB/T 9969.