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

GB/T 18687-2012

Replacing GB/T 18687-2002

**Agricultural irrigation equipment -- Sprayers -- General
requirements and test methods**

农业灌溉设备 非旋转式喷头 技术要求和试验方法

(English Translation)

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Foreword

This standard rule according to GB/T 1.1-2009 given draft.

This standard replaces GB/T 18687-2002 "non-rotating sprinkler technical requirements and test methods of agricultural irrigation equipment." this standard compared with GB/T 18687-2002, the main technical difference except outside editorial changes as follows.

- Adjusted normative references (see Chapter 2);
- Add and adjust some of the terms and definitions (see Chapter 3);
- Increasing the head of the category type (see 4.2, 4.4 and 4.5);
- Cancellation detailed provisions sampling and inspection rules;
- Increasing the measurement accuracy requirements and refine the general test conditions (see 6.1 and 6.2);
- Adjust the diameter of the spray, spray water distribution curve graphics and test methods, and increase the provision of a test method (see 6.3);
- Re-enacted with the GB/T 18687-2002 different traffic conformance test methods (see 6.3.5);
- Refined spray height measurement method, and provides the tolerances (see 6.3.7);
- Endurance test time from 1500h adjusted to 2000h, and increasing the durability test after test project requirements (see 6.4);
- Supercharging pressure at room temperature performance of the tests prescribed by the differential 100kPa to 50kPa (see 6.5.2.1);
- High temperature pressure resistance test maintain maximum working pressure of uniform regulations for the time 8h (see 6.5.3.1).

This standard uses redrafted law revision adopted ISO 8026:2009 "Agricultural non-rotating sprinkler irrigation equipment technical requirements and test methods Law "(in English).

This standard and ISO 8026:2009 for the difference.

--- On normative references, this standard has been adjusted technical differences, focus adjustments are reflected in Chapter 2, the specific Adjusted as follows. The equivalent to the GB/T 7306.1 ~ 7306.2-2000 instead of ISO 7-1:1994.

The standard proposed by China Machinery Industry Federation.

This standard by the National Standardization Technical Committee (SAC/TC201)
Agricultural machinery centralized.

This standard was drafted. Chinese Academy of Agricultural Mechanization Sciences,
Technology Research Center of Fluid Machinery Engineering, Jiangsu University, Zhejiang
Agricultural Real Co., Ltd.

1 Scope

This standard specifies the technical requirements and test methods for non-rotating
sprinkler irrigation (hereinafter referred to as the head) of.

This standard applies to the installation of irrigation systems and the working medium is
water for irrigation sprinklers.

2 Normative references

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

GB/T 7306.1 ~ 7306.2 55 ° sealing pipe thread (GB/T 7306.1 ~ 7306.2-2000, eqvISO
7-1.1994) GB/T 27612.3-2011 Agricultural irrigation equipment - Sprinklers - Part 3. water
distribution characteristics and test methods (ISO 15886-3.

2004, IDT)

3 Terms and Definitions

The following terms and definitions apply to this document.

Ambient temperature Head ambient temperature.

Rain barrel collector Water distribution nozzle, spray or spray diameter graphics test, the
spray nozzle for a container to collect water.

Spray diameter diameterofcoverage in a spray nozzle area of \u200b\u200bcontinuous
operation, the point where the head along a straight line through the two measuring
effective irrigation farthest point within the range of intensity the distance between the
approximate value equal to twice the range.

Effective irrigation intensity effective application rate the flow rate is greater than 75L/h sprinklers, irrigation intensity greater than or equal to 0.26mm/h; the flow rate is equal to or less than 75L/h jet Head irrigation intensity greater than or equal to 0.13mm/h.

Irrigation capillary irrigation lateral Irrigation system directly or via a linker, such as the installation riser pipe or emitters (such as sprinklers) supply pipe.

Non-rotating sprinkler irrigation irrigation sprayer no rotational movement of the parts, a thin stream of water spray form or fan-shaped spray device.