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

GB/T 18690.2-2017

Replacing GB/T 18690.2-2002

**Agricultural irrigation equipment -- Filters for micro-irrigation --
Part 2: Strainer-type filters and disc filters**

农业灌溉设备 微灌用过滤器 第2部分：网式过滤器和叠片式过滤器

(English Translation)

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Foreword

GB/T 18690 "Agricultural irrigation equipment for micro-irrigation filter" is divided into three parts.

- Part 1. Terms, definitions and classification;
- Part 2. Mesh filters and laminated filters;
- Part 3. Automatic washing mesh filter and laminated filter.

This section GB/T 18690 Part 2.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This Part replaces GB/T 18690.2-2002 "Agricultural irrigation equipment filter mesh filter." this section compared with GB/T 18690.2-2002, in addition to editorial changes outside the main technical changes are as follows.

- Added some terms (see Chapter 3);
- Modify the scope of the standard (see Chapter 1, 2002 edition Chapter 1);
- Remove the sampling and acceptance rules (see the 2002 edition of Chapter 6);
- Increased circulating pressure test (see 6.2.3).

This section uses the translation method is equivalent to using ISO 9912-2:2013 "Agricultural irrigation equipment, micro-irrigation filter with Part 2.

Filter and lamination filter ".

This section made the following editorial changes.

- Use "MPa" instead of "bar".

This part is proposed by China Machinery Industry Federation.

This part of the National Agricultural Machinery Standardization Technical Committee (SAC/TC201) centralized.

This section drafted by. China Agricultural Mechanization Research Institute, Jiangsu University Fluid Machinery Engineering Research Center.

1 Scope

GB/T 18690 provisions of this part of the agricultural irrigation system used mesh filter and laminated filter (hereinafter referred to as filtration) General structural requirements and test methods.

This section does not cover the filter performance, efficiency and capacity (such as the quality of filtered water, the filter is completely blocked before running time Etc.), nor the structural requirements and tests for filters with automatic flushing devices specified in ISO /

NOTE The definition and test methods for filter performance, efficiency and capacity parameters will be given in other ISO technical reports. The technical report will provide for the phase Test methods for the comparison of various filters using user-specified water under the same operating conditions to characterize the filter in the user or tester's specified water the operating characteristics.

2 Normative references

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

Agricultural irrigation equipment - Filters for micro - irrigation - Part 1. Terms, definitions and classification (ISO 9912-1-2009).

2004, IDT)

ISO 7-1 Threaded Pipe Threads Part 1. Dimensions, Tolerances and Markings
(Pipethreadswherepressure-tight jointsaremadeonhethreads-Part 1: Dimensions, tolerancesanddesignation) ISO 7005-1 Pipe Flanges Part 1. Steel Flanges for Industrial and General Purpose Piping Systems (Pipeflanges-Part 1.

Steelflangesforindustrialand generalservicepipingsystems) ISO 7005-2 metal flange Part 2. Cast iron flange (Metalicflanges-Part 2: Castironflanges)

3 Terms and definitions

GB/T 18690.1-2009 defined and the following terms and definitions apply to this document.

Strainerfilter

Strainer

Equipped with one or more filter elements (eg, mesh or mesh) through which the blockage

in the flow of water is trapped on its surface and A device that separates the blockage from the water.

[GB/T 18690.1-2009, Definition 2.8] 3.2 Laminated filter discfilter the filter element is a laminated filter. (See 3.4) 3.3 Mesh filter element strainerfilterelement Filter element A part of a mesh filter consisting of a perforated plate, a mesh, a mesh or a combination thereof for retaining more than a certain amount of water from the water flowing through it