
**Agricultural irrigation equipment —
Filters for microirrigation —**

Part 4:
Granulated media filters

Matériel agricole d'irrigation — Filtres pour micro-irrigation —



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Foreword

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A list of all parts in the ISO 9912 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Agricultural irrigation equipment — Filters for microirrigation —

Part 4: Granulated media filters

1 Scope

This document specifies construction requirements and test methods for pressurized granulated media filters, hereinafter referred to as media filters, intended for operation in agricultural irrigation systems.

It is applicable to both manual cleaning media filters and automatic self-cleaning media filters, used as single unit or in batteries (two or more units working in parallel).

This document covers the operation and performance of a media filter, together with all related valves, back flushing mechanism, underdrains, manifolds and other related accessories necessary for the operation of the filter.

This document is applicable to three configurations of a filter.

- a) An empty filter vessel (tank) housing.
- b) A filter vessel filled with media filter material(s), complete with valves, connections, air release and/or other accessories. This configuration, when connected to and controlled by a flushing control device, is a complete operating single filter unit, usually positioned as a part of a filtration station.
- c) A filtration station, called “filter battery”.

[Annex A](#) provides information on types of irrigation media filters.

[Annex B](#) provides information on granulated media.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 9644, *Agricultural irrigation equipment — Pressure losses in irrigation valves — Test method*

ISO 9912-1, *Agricultural irrigation equipment — Filters for micro-irrigation — Part 1: Terms, definitions and classification*

ISO 9912-2:2013, *Agricultural irrigation equipment — Filters for microirrigation — Part 2: Strainer-type filters and disc filters*

ISO 9912-3, *Agricultural irrigation equipment — Filters for microirrigation — Part 3: Automatic flushing strainer-type filters and disc filters*