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Agricultural irrigation equipment — Irrigation valves —

Part 4: Air valves

Matériel agricole d'irrigation — Vannes d'irrigation — Partie 4: Vannes de purge d'air



Reference number ISO 9635-4:2006(E)

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in Maison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 9635-4 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 18, *Irrigation and drainage equipment and systems*.

This first edition of ISO 9635-4, together with ISO 9635-1, ISO 9635-2, ISO 9635-3 and ISO 9635-5, cancels and replaces ISO 9635:1990, of which it constitutes a technical revision.

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ISO 9635 consists of the following parts, under the general title Agricultural irrigation equipment — Irrigation valves:

- Part 1: General requirements
- Part 2: Isolating valves
- Part 3: Check valves
- Part 4: Air valves
- Part 5: Control valves



Agricultural irrigation equipment — Irrigation valves —

Part 4: Air valves

IN:S

1 Scope

This part of ISO 9635 specifies construction and performance requirements and test methods for air valves, intended for operation in irrigation systems with water at temperatures not exceeding 60 °C, which can contain fertilizers and other chemicals of the types and concentrations used in agriculture.

It is applicable to hydraulically operated air irrigation valves of DN 15 (1/2 inch) diameter or greater, designed to be directly operated, i.e. the force is applied to the obturator by the float, either directly or via a mechanical linkage. The valves can be operated by a force applied through an adjustable pilot valve.

2 Normative references

The following referenced documents are indimensable for the application 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 9635-1:2006, Agricultural irrigation equipment — Irrigation valves — Part 1: General requirements

ISO 9635-2:2006, Agricultural irrigation equipment — Irrigation valves — Part 2: Isolating valves

3 Terms and definitions

For the purposes of this document, the terms and definitions given in So 9635-1 and the following apply.

3.1

air valve

float-type purger

self-operating float-type valve designed for the evacuation of air from, or the ingress of air into, water pipelines.

NOTE Such valves can be single-float or double-float and can fulfil one or more or the following functions: air release, air intake, air venting.

3.2

air release function

discharge of an air volume from a water pipeline

3.3 air intake function

vacuum relief function

admittance of an air volume into a water pipeline