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**Agricultural irrigation equipment —  
Sprinklers —  
Part 2:  
Design and operation requirements**

*Matériel agricole d'irrigation — Asperseurs —  
Partie 2: Exigences de conception et de fonctionnement*

Reference number  
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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 liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document 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 15886-2 cancels and replaces ISO 7749-1:1995, which has been technically revised.

The main changes compared to the previous are as follows:

- the definitions have been updated;
- the sampling and acceptance tests have been deleted;
- references to ISO 7749-2 have been deleted;
- the distribution tests have been modified and developed in ISO 15886-3;
- a new [Annex A](#) "Drop size test" has been added.

A list of all parts in the ISO 15886 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](http://www.iso.org/members.html).

# Agricultural irrigation equipment — Sprinklers —

## Part 2: Design and operation requirements

### 1 Scope

This document specifies the design and operational requirements of irrigation sprinklers and their test methods.

The term sprinkler is used in this document in a broad generic sense and it means to cover a wide variety of products as classified by ISO 15886-1. This document applies to rotating sprinklers.

This document is applicable to sprinklers intended for installation on a pipe lateral and for operation with irrigation water.

### 2 Normative reference

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 7-1, *Pipe threads where pressure-tight joints are made on the threads — Part 1: Dimensions, tolerances and designation*

ISO 15886-1, *Agricultural irrigation equipment — Sprinklers — Part 1: Definition of terms and classification*

ISO 15886-3, *Agricultural irrigation equipment — Sprinklers — Part 3: Characterization of distribution and test methods*

ISO 15886-4, *Irrigation equipment — Irrigation sprinklers — Part 4: Test methods for durability*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 15886-1, ISO 15886-3 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

#### 3.1

##### **ambient temperature**

temperature of the air surrounding a *sprinkler* (3.3)

#### 3.2

##### **clean water**

water processed, if necessary, so as to contain suspended particles no larger than 74 µm (200 mesh equivalent) and to contain no dissolved chemicals known to have short-term effects on the sprinkler materials