

## **LIST OF ISO STANDARDS RELEVANT OF IRRIGATION SYSTEMS**

Irrigated agriculture will have to grow more products using less water.

Modern, modernized or rehabilitated irrigation techniques are increasingly used, made more effective and performant. Users need an easier access to standards. Quality of irrigation equipment or system, performance assessment, certification are major goals for irrigated agriculture, sustainable water management and prevention of pollutions to the environment.

Actors involved are specifically numerous in the irrigation process. Transparency for information on technical performance should be promoted and result in rational uses of water at the on-farm level, improved practices, advances on water management methods.

The set of ISO Standards applying to irrigation equipment can achieve decisive contributions to improving the performance of on-farm irrigation systems and specifying relevant qualities for equipment.

The environment of standards is particularly important in developing countries, where it may contribute as a powerful tool for rising progressively and sustainably quality levels in irrigation equipment and systems.

### **STANDARD AND/OR PROJECT UNDER THE DIRECT RESPONSIBILITY OF**

#### **ISO/TC 23/SC 18 SECRETARIAT (40)**

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90 Review stage

90.20 International Standard under periodical review

90.60 Close of review

90.92 International Standard to be revised

90.93 International Standard confirmed

90.99 Withdrawal

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#### **ISO 7714:2018**

Agricultural irrigation equipment -- Volumetric valves  
-- General requirements and test methods

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#### **ISO 7749-1:1995**

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Agricultural irrigation equipment -- Rotating sprinklers -- Part 1: Design and operational requirements

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**ISO 8026:2009**

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

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• [65.060.35](#)

**ISO/TR 8059:1986**

Irrigation equipment -- Automatic irrigation systems -  
- Hydraulic control

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**ISO 8224-1:2003**

Traveller irrigation machines -- Part 1: Operational characteristics and laboratory and field test methods

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• [65.060.35](#)

**ISO 8224-1:2003/AMD 1:2011**

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• [65.060.35](#)

**ISO 8224-2:1991**

Traveller irrigation machines -- Part 2: Softwall hose and couplings -- Test methods

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• [65.060.35](#)

**ISO 9261:2004**

Agricultural irrigation equipment -- Emitters and emitting pipe -- Specification and test methods

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**ISO 9635-1:2014**

Agricultural irrigation equipment -- Irrigation valves -  
- Part 1: General requirements

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**ISO 9635-2:2014**

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Agricultural irrigation equipment -- Irrigation valves -  
- Part 2: Isolating valves

[60.60](#) • [65.060.35](#)

**ISO 9635-3:2014**

Agricultural irrigation equipment -- Irrigation valves -  
- Part 3: Check valves

[60.60](#) • [65.060.35](#)

**ISO 9635-4:2014**

Agricultural irrigation equipment -- Irrigation valves -  
- Part 4: Air valves

[60.60](#) • [65.060.35](#)

**ISO 9635-5:2014**

Agricultural irrigation equipment -- Irrigation valves -  
- Part 5: Control valves

[60.60](#) • [65.060.35](#)

**ISO 9644:2018**

Agricultural irrigation equipment -- Pressure losses in  
irrigation valves -- Test method

[90.60](#) • [65.060.35](#)

**ISO 9911:2006**

Agricultural irrigation equipment -- Manually  
operated small plastics valves

[90.60](#) • [65.060.35](#)

**ISO 9912-1:2004**

Agricultural irrigation equipment -- Filters for micro-  
irrigation -- Part 1: Terms, definitions and  
classification

[90.60](#) • [65.060.35](#)

**ISO 9912-2:2013**

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

<b>ISO 9912-3:2013</b>	<u>90.60</u>	• <a href="#">65.060.35</a>
Agricultural irrigation equipment -- Filters for microirrigation -- Part 3: Automatic flushing strainer-type filters and disc filters		
<b>ISO 9912-4:2018</b>	<u>60.60</u>	• <a href="#">65.060.35</a>
Agricultural irrigation equipment -- Filters for microirrigation -- Part 4: Granulated media filters		
<b>ISO 10522:1993</b>	<u>90.92</u>	• <a href="#">65.060.35</a>
Agricultural irrigation equipment -- Direct-acting pressure-regulating valves		
<b>ISO 11545:2009</b>	<u>90.93</u>	• <a href="#">65.060.35</a>
Agricultural irrigation equipment -- Centre-pivot and moving lateral irrigation machines with sprayer or sprinkler nozzles -- Determination of uniformity of water distribution		
<b>ISO 11678:1996</b>	<u>90.60</u>	• <a href="#">65.060.35</a>
Agricultural irrigation equipment -- Aluminium irrigation tubes		
<b>ISO 11738:2000</b>	<u>90.92</u>	• <a href="#">65.060.35</a>
Agricultural irrigation equipment -- Control heads		
<b>ISO 12374:1995</b>	<u>90.60</u>	• <a href="#">65.060.35</a>
Agricultural irrigation -- Wiring and equipment for electrically driven or controlled irrigation machines		
<b>ISO 13457:2008</b>	<u>90.60</u>	• <a href="#">65.060.35</a>

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Agricultural irrigation equipment -- Water-driven chemical injector pumps

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**ISO 13460-1:2015**

Agricultural irrigation equipment -- Plastics saddles -- Part 1: Polyethylene pressure pipes

[90.93](#) • [65.060.35](#)

**ISO 13693-1:2013**

Irrigation equipment -- Safety devices for chemigation -- Part 1: Small plastics valves for chemigation

[60.60](#) • [65.060.35](#)

**ISO 13693-2:2015**

Irrigation equipment -- Safety devices for chemigation -- Part 2: Chemigation valve assemblies from DN 75 (3") to DN 350 (14")

[90.93](#) • [65.060.35](#)  
• [01.080.30](#)

**ISO 15081:2011**

Agricultural equipment -- Graphical symbols for pressurized irrigation systems

[60.60](#) • [65.060.35](#)

**ISO/TR 15155-1:2018**

Agricultural irrigation equipment -- Test facilities for agricultural irrigation equipment -- Part 1: General

[60.60](#) • [65.060.35](#)

**ISO/TR 15155-2:2012**

Agricultural irrigation equipment -- Test facilities for agricultural irrigation equipment -- Part 2: Test facility operating manual

[90.60](#) • [65.060.35](#)

**ISO 15873:2002**

Irrigation equipment -- Differential pressure Venturi-type liquid additive injectors

<b>ISO 15886-1:2012</b>	<u>90.93</u>	• <a href="#">65.060.35</a>
Agricultural irrigation equipment -- Sprinklers -- Part 1: Definition of terms and classification		
<b>ISO 15886-3:2012</b>	<u>90.92</u>	• <a href="#">65.060.35</a>
Agricultural irrigation equipment -- Sprinklers -- Part 3: Characterization of distribution and test methods		
<b>ISO 15886-3:2012/AMD 1:2016</b>	<u>60.60</u>	• <a href="#">65.060.35</a>
<b>ISO 15886-4:2019</b>	<u>60.60</u>	• <a href="#">65.060.35</a>
Irrigation equipment -- Irrigation sprinklers -- Part 4: Test methods for durability		
<b>ISO 16149:2006</b>	<u>90.60</u>	• <a href="#">65.060.35</a>
Agricultural irrigation equipment -- PVC above-ground low-pressure pipe for surface irrigation -- Specifications and test methods		
<b>ISO 16399:2014</b>	<u>90.20</u>	• <a href="#">65.060.35</a>
Meters for irrigation water		
<b>ISO 16438:2012</b>	<u>90.92</u>	• <a href="#">65.060.35</a>
Agricultural irrigation equipment -- Thermoplastic collapsible hoses for irrigation -- Specifications and test methods		
<b>ISO 18471:2015</b>	<u>60.60</u>	• <a href="#">65.060.35</a>
Agricultural irrigation equipment -- Filters -- Verification of filtration grade		

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**STANDARD AND/OR PROJECT UNDER THE DIRECT  
RESPONSIBILITY OF**

STAGE

ICS

**ISO/TC 282 SECRETARIAT**

<https://www.iso.org/contents/data/ics/13.060.01.html>

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**[ISO 16075-1:2015](#)**

[90.92](#)

[ISO/TC 282/SC 1](#)

**Guidelines for treated wastewater use for irrigation projects -- Part 1: The basis of a reuse project for irrigation**

**[ISO/DIS 16075-1](#)**

[40.20](#)

[ISO/TC 282/SC 1](#)

**Guidelines for treated wastewater use for irrigation projects -- Part 1: The basis of a reuse project for irrigation**

**[ISO 16075-2:2015](#)**

[90.92](#)

[ISO/TC 282/SC 1](#)

**Guidelines for treated wastewater use for irrigation projects -- Part 2: Development of the project**

**[ISO/DIS 16075-2](#)**

[40.20](#)

[ISO/TC 282/SC 1](#)

**Guidelines for treated wastewater use for irrigation projects -- Part 2: Development of the project**

**[ISO 16075-3:2015](#)**

[90.92](#)

[ISO/TC 282/SC 1](#)

**Guidelines for treated wastewater use for irrigation projects -- Part 3: Components of a reuse project for irrigation**

**[ISO/NP 16075-3](#)**

[10.99](#)

[ISO/TC 282/SC 1](#)

**Guidelines for treated wastewater use for irrigation projects -- Part 3: Components of a reuse project for irrigation**

<a href="#"><u>ISO 16075-4:2016</u></a>	<a href="#"><u>90.92</u></a>	<a href="#"><u>ISO/TC 282/SC 1</u></a>
<b>Guidelines for treated wastewater use for irrigation projects -- Part 4: Monitoring</b>		
<a href="#"><u>ISO/NP 16075-4</u></a>	<a href="#"><u>10.99</u></a>	<a href="#"><u>ISO/TC 282/SC 1</u></a>
<b>Guidelines for treated wastewater use for irrigation projects -- Part 4: Monitoring</b>		
<a href="#"><u>ISO 20426:2018</u></a>	<a href="#"><u>60.60</u></a>	<a href="#"><u>ISO/TC 282/SC 3</u></a>
<b>Guidelines for health risk assessment and management for non-potable water reuse</b>		
<a href="#"><u>ISO 20468-1:2018</u></a>	<a href="#"><u>60.60</u></a>	<a href="#"><u>ISO/TC 282/SC 3</u></a>
<b>Guidelines for performance evaluation of treatment technologies for water reuse systems -- Part 1: General</b>		
<a href="#"><u>ISO 20468-2:2019</u></a>	<a href="#"><u>60.60</u></a>	<a href="#"><u>ISO/TC 282/SC 3</u></a>
<b>Guidelines for performance evaluation of treatment technologies for water reuse systems -- Part 2: Methodology to evaluate performance of treatment systems on the basis of greenhouse gas emissions</b>		
<a href="#"><u>ISO/DIS 20468-3</u></a>	<a href="#"><u>40.20</u></a>	<a href="#"><u>ISO/TC 282/SC 3</u></a>
<b>Guidelines for performance evaluation of treatment technologies for water reuse systems -- Part 3: Ozone treatment technology</b>		
<a href="#"><u>ISO/CD 20468-4</u></a>	<a href="#"><u>30.60</u></a>	<a href="#"><u>ISO/TC 282/SC 3</u></a>
<b>Guidelines for performance evaluation of treatment technologies for water reuse systems -- Part 4: UV Disinfection</b>		
<a href="#"><u>ISO/DIS 20468-5</u></a>	<a href="#"><u>40.00</u></a>	<a href="#"><u>ISO/TC 282/SC 3</u></a>



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**Guidelines for performance evaluation of treatment technologies for water reuse systems -- Part 5: Membrane filtration**

[ISO/CD 20468-6](#)

[30.99](#) [ISO/TC 282/SC 3](#)

**Guidelines for performance evaluation of treatment technologies for water reuse systems -- Part 6: Ion exchange and electro dialysis**

[ISO/CD 20468-7](#)

[30.99](#) [ISO/TC 282/SC 3](#)

**Guidelines for performance evaluation of treatment technologies for water reuse systems -- Part 7: Advanced Oxidation Processes**

[ISO 20469:2018](#)

[60.60](#) [ISO/TC 282/SC 3](#)

**Guidelines for water quality grade classification for water reuse**

[ISO 20670:2018](#)

[60.60](#) [ISO/TC 282](#)

**Water reuse -- Vocabulary**

[ISO 20760-1:2018](#)

[60.60](#) [ISO/TC 282/SC 2](#)

**Water reuse in urban areas -- Guidelines for centralized water reuse system -- Part 1: Design principle of a centralized water reuse system**

[ISO 20760-2:2017](#)

[60.60](#) [ISO/TC 282/SC 2](#)

**Water reuse in urban areas -- Guidelines for centralized water reuse system -- Part 2: Management of a centralized water reuse system**

[ISO 20761:2018](#)

[60.60](#) [ISO/TC 282/SC 2](#)

**Water reuse in urban areas -- Guidelines for water reuse safety evaluation -- Assessment parameters and methods**

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[ISO 21939-1:2019](#)

[60.60](#) [ISO/TC 282/SC 4](#)

**A method to calculate and express energy consumption of industrial wastewater treatment for the purpose of water reuse -- Part 1: Biological processes**

[ISO/CD 22238](#)

[30.60](#) [ISO/TC 282/SC 1](#)

**Water reuse -- A guideline to wastewater disinfection and equivalent treatments**

[ISO 22519:2019](#)

[60.60](#) [ISO/TC 282](#)

**Purified water and water for injection pretreatment and production systems**

[ISO/DIS 23056](#)

[40.20](#) [ISO/TC 282/SC 2](#)

**Water reuse in urban areas -- Guidelines for decentralized/onsite water reuse system -- Design principle of a decentralized/onsite system**

[ISO/DIS 23070](#)

[40.20](#) [ISO/TC 282/SC 2](#)

**Water reuse in urban areas -- Guidelines for reclaimed water treatment -- Design principle of a RO desalination system of municipal wastewater**

