



BSI Standards Publication

Agricultural irrigation equipment — Test facilities for agricultural irrigation equipment

Part 1: General

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National foreword

This Published Document is the UK implementation of ISO/TR 15155-1:2018. It supersedes PD ISO/TR 15155:2005, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee AGE/30, Irrigation and drainage equipment.

A list of organizations represented on this committee can be obtained on request to its secretary.

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Part 1: General

*Matériel agricole d'irrigation — Installations d'essais pour le
matériel agricole d'irrigation —*

Partie 1: Général



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Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 System components	2
4.1 Pumps and pump environment.....	2
4.1.1 General.....	2
4.1.2 Selection.....	2
4.1.3 Installation.....	2
4.1.4 Use.....	6
4.2 Pressure measurement.....	6
4.2.1 General.....	6
4.2.2 Selection.....	6
4.2.3 Installation and location of sensors.....	7
4.2.4 Calibration and certification.....	8
4.3 Flow and volume measurement.....	8
4.3.1 General.....	8
4.3.2 Flow meter alternatives and selection.....	8
4.3.3 Volumetric (time and mass/volume).....	9
4.3.4 Installation and maintenance.....	9
4.3.5 Calibration and certification.....	9
4.4 Test bench design.....	9
4.4.1 Pressure control.....	9
4.4.2 Flow control.....	10
4.5 Water processing.....	10
4.5.1 Screens and filters.....	10
4.5.2 Disinfection.....	10
4.5.3 Temperature control.....	10
4.6 Turbulence considerations.....	11
5 Test facility procedures and policies	11
5.1 General.....	11
5.2 Test results confidentiality.....	11
5.3 Control of records.....	11
5.4 Handling of test or calibration items.....	11
5.5 Public access to facilities and test results.....	11
5.6 Vendor testing of competitors' products.....	11
5.7 Commercial use of test data.....	11
5.8 Expert witness policy.....	11
Annex A (informative) Sprinkler hydraulic properties in clear water	12
Annex B (informative) Drip emitters and emitting pipe hydraulic properties in clear water	14
Annex C (informative) Valves hydraulic properties in clear water	16
Annex D (informative) Sprayers hydraulic properties in clear water	18
Annex E (informative) Meters hydraulic properties in clear water	20
Bibliography	22

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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).

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).

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.

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*.

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.

This first edition cancels and replaces ISO/TR 15155:2005, which has been technically revised to include sprayers (ISO 8026) and water meters (ISO 16399).

A list of all parts in the ISO/TR 15155 series can be found on the ISO website.

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Part 1: General

1 Scope

This document gives guidelines for the design, selection, installation and use of the equipment required to establish basic test facilities for irrigation equipment evaluation. It provides the information sufficient to complement the detailed procedures included in ISO 7714, ISO 8026, ISO 9261, ISO 9635 (all parts), ISO 9644, ISO 9911, ISO 10522, ISO 15886 and ISO 16399 for the testing of agricultural irrigation system components, specifically emitters, sprinklers, valves, sprayers and water meters.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions 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

test bench

collection of components, including water supply/receiving reservoir, piping, fittings and instrumentation, assembled to test an agricultural irrigation component

3.2

test facility

collection of components, including water supply, *test bench(es)* (3.1) and shelter, used to test agricultural irrigation valves, sprinklers and emitters

3.3

net positive suction head available

NPSHa

arithmetic difference between the available *total suction head at the impeller of a centrifugal pump* (3.6) and the *vapour pressure head* (3.7)

3.4

net positive suction head required

NPSHr

arithmetic difference between the *total suction head at the impeller of a centrifugal pump* (3.6) required for the pump to operate properly and the *vapour pressure head* (3.7), as specified by the manufacturer