
**Agricultural irrigation equipment —
Graphical symbols for pressurized
irrigation systems**

*Matériel agricole d'irrigation — Symboles graphiques des systèmes
d'irrigation sous pression*

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO 15081:2005](https://standards.iteh.ai/catalog/standards/sist/c966676e-7048-40ea-96cc-fl32af424203/iso-15081-2005)

[https://standards.iteh.ai/catalog/standards/sist/c966676e-7048-40ea-96cc-
fl32af424203/iso-15081-2005](https://standards.iteh.ai/catalog/standards/sist/c966676e-7048-40ea-96cc-fl32af424203/iso-15081-2005)



PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

ISO 15081:2005

<https://standards.iteh.ai/catalog/standards/sist/c966676e-7048-40ea-96cc-f132af424203/iso-15081-2005>

© ISO 2005

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 General rules	1
4 Symbols for piping and piping accessories	2
5 Symbols for connections and joints	3
6 Symbols for valves	4
7 Symbols for pumps	6
8 Symbols for measuring devices	7
9 Symbols for water-application equipment	7
10 Symbols for filters	7
11 Symbols for chemical injectors	8
12 Symbols for irrigation machines	8
13 Symbols for irrigation controller	8
Bibliography	9

<https://standards.iteh.ai/catalog/standards/sist/c966676e-7048-40ea-96ec-fl32af424203/iso-15081-2005>
 ISO 15081:2005

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.

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 15081 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 18, *Irrigation and drainage equipment and systems*.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO 15081:2005](https://standards.iteh.ai/catalog/standards/sist/c966676e-7048-40ea-96cc-f132af424203/iso-15081-2005)

<https://standards.iteh.ai/catalog/standards/sist/c966676e-7048-40ea-96cc-f132af424203/iso-15081-2005>

Introduction

ISO 15081 is a collective application standard of the ISO 14617 ^[19] series of standards.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[ISO 15081:2005](https://standards.iteh.ai/catalog/standards/sist/c966676e-7048-40ea-96cc-f132af424203/iso-15081-2005)

<https://standards.iteh.ai/catalog/standards/sist/c966676e-7048-40ea-96cc-f132af424203/iso-15081-2005>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

ISO 15081:2005

<https://standards.iteh.ai/catalog/standards/sist/c966676e-7048-40ea-96ec-f132af424203/iso-15081-2005>

Agricultural irrigation equipment — Graphical symbols for pressurized irrigation systems

1 Scope

This International Standard establishes conventional basic graphical symbols for use on drawings and diagrams concerning the installation of pressurized agricultural irrigation systems.

2 Normative references

The following referenced documents are indispensable 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 81714-1, *Design of graphical symbols for use in the technical documentation of products — Part 1: Basic rules*

3 General rules

A group of devices/components is represented by a general symbol. This general symbol shall be completed for any special component of the group.





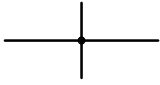
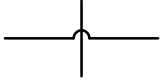




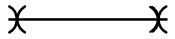
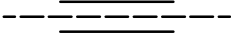




In this International Standard, various assemblies of actuators with valves are shown only on the valve general symbol (see 6.1.1), but they may operate various types of valves.

For a more detailed representation, these basic symbols may be combined with designations specified in a description, or else a system of more detailed symbols based on these basic symbols may be devised.

The graphical symbols in this International Standard have been designed according to the rules given in ISO 81714-1. When new symbols are designed, e.g. a combination of symbols as in the present document, ISO 81714-1 shall be followed.

This International Standard contains graphical symbols primarily for irrigation equipment. Additional graphical symbols for diagrams can be found in ISO 14617 or in IEC 61617 for the electrotechnical field.

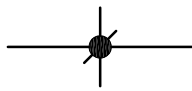
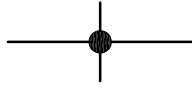
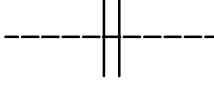
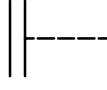
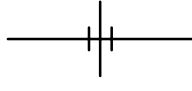






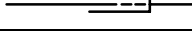
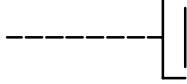
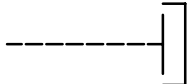
4 Symbols for piping and piping accessories

No.	Designation	Symbol
4.1	Major (main) pipeline	 (Width 1 mm)
4.2	Minor (secondary) pipeline	 (Width 0,5 mm)
4.3	Future extension (planned) pipeline	
4.4	Existing pipeline that will be used	
4.5	Pipe connection	
4.6	Pipe (without connection)	
4.7	Direction of flow	
4.8	Interruption of piping	
4.9	Cross-section of pipe	
4.10	Concentric pipe bore change	 or DN A/DN a
4.11	Abolition of pipe	
4.12	Pipe sleeve	
4.13	Domestic drinking water	
4.14	Reclaimed (Irrigation) water	
4.15	Flexible pipe, hose	 or 

iTeh STANDARD PREVIEW
(standards.iteh.ai)

ISO 15081:2005
<https://standards.iteh.ai/catalog/standards/sist/c966676e-7048-40ea-96cc-fl32af424203/iso-15081-2005>

5 Symbols for connections and joints

No.	Designation	Symbol
5.1	Detachable junction	
5.2	Non-detachable junction of pipelines	
5.3	Flange connection	
5.4	Blind flange	
5.5	Union	
5.6	Quick-release coupling	
5.6.1	Quick-release coupling element of male type	
5.6.2	Quick-release coupling element of female type	
5.6.3	Quick-release coupling element which fits into another coupling element of the same type	
5.6.4	Quick-release coupling element of male type with automatic closing when decoupled	
5.6.5	Quick-release coupling element of female type with automatic closing when decoupled	
5.6.6	Quick-release coupling element which fits into another coupling element of the same type, with automatic closing when decoupled	
5.7	Expansion joint	
5.8	Male plug	
5.9	Female plug	
5.10	End-cap for pipe	