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

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

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Published in Switzerland

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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.

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*.

This second edition cancels and replaces the first edition (ISO 15081:2005), which has been technically revised.

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Agricultural equipment — Graphical symbols for pressurized irrigation systems

1 Scope

This International Standard establishes graphical symbols for use on drawings and diagrams relating to the installation of pressurized agricultural irrigation systems. It is a collective application standard of the ISO 14617 series of International Standards.

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.






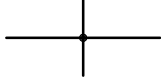
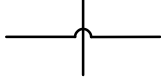

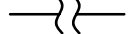






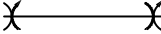
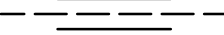

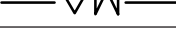

In this International Standard, various assemblies of actuators with valves are shown only on the valve general symbol (see 6.1.1), but they may operate various types of valves.

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 basic rules given in ISO 81714-1. When new symbols are designed, e.g. a combination of symbols as in the present document, those basic rules shall be followed.

This International Standard presents graphical symbols intended primarily for irrigation equipment. Additional graphical symbols for diagrams can be found in ISO 14617^[17].

4 Symbols for piping and piping accessories

No.	Designation	Symbol
4.1	Major (main) pipeline	
4.2	Minor pipeline	
4.2.1	Minor (secondary) pipeline	
4.2.2	Minor (tertiary) pipeline	
4.3	Future extension (planned) pipeline	
4.4	Existing pipeline to 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	Pipe bore change	
4.10.1	Concentric	 or DN A/DN a 
4.10.2	Eccentric	 or DN A/DN a 
4.11	Pipe change	
4.11.1	Abolition of pipe	
4.11.2	Substitution of pipe	
4.12	Pipe sleeve	
4.13	Domestic drinking water	
4.14	Reclaimed (irrigation) water	
4.15	Flexible pipe/hose	 or 