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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 24671-2023

Replacing GB/T 24671-2009

Agricultural irrigation equipment - Graphical symbols for pressurized irrigation systems

农业灌溉设备 承压灌溉系统图形符号

(English Translation)

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Preview: page 1 of 4 shown, 12 in the full document. Complete English PDF, instant download:
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Table of Contents

Foreword

1 Scope

2 Normative reference documents

3 Terms and definitions

4 Basic rules

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents" Drafting:

This document replaces GB/T 24671-2009 "Graphic symbols for pressure-bearing irrigation systems of agricultural irrigation equipment" and is consistent with GB/T 24671-2009 in comparison, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

a) Changes to the "Basic Rules" (see Chapter 4, Chapter 3 of the:2009 edition);

b) Changed the graphical symbol of "main (trunk) pipeline" (see 5.1, 4:1 of the:2009 edition);

c) Change "branch (branch) pipeline" to "branch pipeline" and divide it into "branch (secondary) pipeline" and "branch (third-level) pipeline" (see 5.2,:2009 edition 4:2);

d) Change "pipeline to be added later (planned)" to "pipeline to be expanded (planned)" (see 5.3, 4:3 of the:2009 version);

e) Change "existing pipelines to be utilized" to "existing pipelines to be used" (see 5.4, 4:4 of the:2009 version);

f) Change "pipe connection" to "pipe joint" (see 5.5, 4:5 of the:2009 version);

g) Added the graphic symbol of eccentric reducer (see 5.10:2);

h) Added replacement pipeline graphical symbols (see 5.11:2);

i) Change "failure to open valve" to "failure to open valve (normally open)"; change "failure to close valve" to "failure to close valve (normally closed)";

"Failure to remain in position valve" is changed to "valve to remain in failure state" (see 7.2:1, 6:2:1 of the:2009 version);

j) The graphical symbol of the manual valve has been changed (see 7.2:2, 6:2:2 of the:2009

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version);

k) Added check valve flow direction requirements (see 7.3:1);

l) Change "duplex multi-function intake and exhaust valve" to "dual/triple function intake and exhaust valve" (see 7.3:2:3, 6:3:2:3 of the:2009 version);

m) Added the graphical symbol of the bottom valve (see 7.3:6);

n) Added graphical symbols for pumps (see 8.1:1, 8:1:2, 8:1:3, 8:1:4, 8:1:5);

o) Added graphical symbols for water meters (see 9.2:1, 9:2:2, 9:2:3, 9:2:4);

p) Added sand filter graphic symbol (see 11.3):

This document is equivalent to ISO 15081:2011 "Graphic Symbols for Pressure Irrigation Systems of Agricultural Equipment":

A "Terms and Definitions" chapter has been added to this document:

This document has made the following minimal editorial changes:

---In order to coordinate with the existing standards, the name of the standard is changed to "Graphic Symbols for Pressure Irrigation Systems of Agricultural Irrigation Equipment":

Please note that some content in this document may be subject to patents: The publisher of this document assumes no responsibility for identifying patents:

1 Scope

This document specifies graphical symbols for use on drawings and diagrams relating to the installation of agricultural pressure-contained irrigation systems: This document is ISO 14617 A combination of application standards for a series of standards:

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, the dated quotations for undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document:

ISO 81714-1 Design of graphical symbols for technical product documentation Part 1: Basic rules (Design of graphical

3 Terms and definitions

There are no terms or definitions to be defined in this document:

Preview: page 3 of 4 shown, 12 in the full document. Complete English PDF, instant download:
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4 Basic rules

A group of equipment/components can be represented using basic symbols: The complete basic Symbol representation:

In this document, various valves and their actuator assemblies are only represented by the basic valve symbols (see 7.1:1), but these actuators can control Manufacture various types of valves:

In order to make the content represented more detailed, basic symbols can be used in combination with prescribed names, or a series of symbols can be designed based on the basic symbols:

More detailed symbols:

The graphical symbols in this document are designed according to the principles specified in ISO 81714-1: Design new symbols (such as the combinators in this document), these basic principles should be followed:

This document only specifies the main graphical symbols for irrigation equipment: Other graphical symbols used in diagrams are found in ISO 14617 [17]:

Preview: page 4 of 4 shown, 12 in the full document. Complete English PDF, instant download:
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