SLOVENSKI STANDARD
SIST ISO 4067-1:1995

01-junij-1995

Tehniļ ne risbe - Instalacije - 1. del: Grafiļ ni simboli vodovodnih, ogrevalnih, prezraļ evalnih naprav in kanalov

Technical drawings -- Installations -- Part 1: Graphical symbols for plumbing, heating, ventilation and ducting

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Dessins techniques -- Installations -- Partie 1: Symboles graphiques pour plomberie, chauffage, ventilation et canalisations

SIST ISO 4067-1:1995
https://standards.iteh.ai/catalog/standards/sist/0de708d8-3be9-46d1-a279-046ad5411100/sist-iso-4067-1-1995

Ta slovenski standard je istoveten z: ISO 4067-1:1984

ICS:

01.080.30	Grafiļ ni simboli za uporabo v risbah, diagramih, naļ rtih, zemljevidih v strojniġtvu in gradbeniġtvu ter v ustrezni tehniļ ni proizvodni dokumentaciji	Graphical symbols for use on mechanical engineering and construction drawings, diagrams, plans, maps and in relevant technical product documentation
01.100.30	Gradbeni naļ rti	Construction drawings

SIST ISO 4067-1:1995 **en**

2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

SIST ISO 4067-1:1995

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST ISO 4067-1:1995
https://standards.iteh.ai/catalog/standards/sist/0de708d8-3be9-46d1-a279-04bad5411100/sist-iso-4067-1-1995

SIST ISO 4067-1:1995

International Standard 4067/1

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION•МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ•ORGANISATION INTERNATIONALE DE NORMALISATION

Technical drawings — Installations — Part 1: Graphical symbols for plumbing, heating, ventilation and ducting

Dessins techniques — Installations — Partie 1: Symboles graphiques pour plomberie, chauffage, ventilation et canalisations

iTeh STANDARD PREVIEW
(standards.iteh.ai)

First edition — 1984-10-15

SIST ISO 4067-1:1995
https://standards.iteh.ai/catalog/standards/sist/0de708d8-3be9-46d1-a279-04bad5411100/sist-iso-4067-1-1995

UDC 744.43 : 696/697 : 003.63 **Ref. No. ISO 4067/1-1984 (E)**

Descriptors : drawings, technical drawings, plumbing, heating, ventilation, pipelines, graphic methods, symbols, graphical symbols.

Price based on 9 pages

SIST ISO 4067-1:1995

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. Every 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

iTeh STANDARD PREVIEW

International Standard ISO 4067/1 was prepared by Technical Committee ISO/TC 10, *Technical drawings.*

(standards.iteh.ai)

SIST ISO 4067-1:1995
https://standards.iteh.ai/catalog/standards/sist/0de708d8-3be9-46d1-a279-04bad5411100/sist-iso-4067-1-1995

© **International Organization for Standardization, 1984** ●

Printed in Switzerland

SIST ISO 4067-1:1995

Contents

Page

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST ISO 4067-1:1995
https://standards.iteh.ai/catalog/standards/sist/0de708d8-3be9-46d1-a279-04bad5411100/sist-iso-4067-1-1995

SIST ISO 4067-1:1995

This page intentionally left blank

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST ISO 4067-1:1995
https://standards.iteh.ai/catalog/standards/sist/0de708d8-3be9-46d1-a279-04bad5411100/sist-iso-4067-1-1995

SIST ISO 4067-1:1995

Technical drawings — Installations — Part 1: Graphical symbols for plumbing, heating, ventilation and ducting

0 Introduction

During the preparation of this part of ISO 4067, due consideration was given to ensuring that it was in line with the coordinated system of existing standards and standardization work within closely related technical fields.

A thoroughgoing review to coordinate symbols for use on drawings in all technical areas is, however, urgently needed. A start on this work has already been made by ISO/TC 10, *Technical Drawings*.

This part of ISO 4067 will be modified as soon as results are forthcoming from this coordination work.

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST ISO 4067-1:1995
https://standards.iteh.ai/catalog/standards/sist/0ce70483-3be9-4cdd-a279-04bad5411100/sist-iso-4067-1-1995

1 Scope and field of application

This part of ISO 4067 establishes conventional basic graphical symbols for use on drawings and diagrams concerning the installation of drainage and water supply, space heating and cooling, and ducted air handling systems.

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

2 References

ISO 128, *Technical drawings — General principles of presentation.*

ISO 3040, *Technical drawings — Dimensioning and tolerancing cones.*

ISO 3461/2, *Rules for presentation of graphical symbols — Part 2: Symbols for use in technical product documentation.* [1]

ISO 3511, *Process measurement control functions and instrumentation —*

Part 1: Basic requirements.

Part 2: Extension of basic requirements.

Part 3: Detailed symbols for instrument interconnection diagrams.

Part 4: Basic symbols for process computer, interface, and shared display/control functions. [1]

ISO 4067/4, *Technical drawings — Installations — Part 4: Symbols for refrigerating plants.* [1]

ISO/TR 8545, *Technical drawings — Installations — Graphical symbols for automatic control.*

3 General rules

A group of components/units is represented by a general symbol. This general symbol shall be completed for any special component. The following two methods of completion are available:

— method A: designations and text;

— method B: complementary additions to make a special symbol.

Only method B is developed in the following clauses, for reasons of simplicity.

The size and design of the symbols shall be related to the scale or size of the drawing.

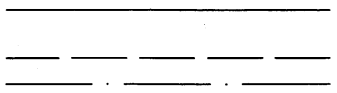
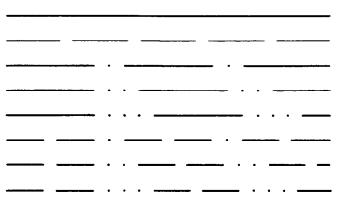
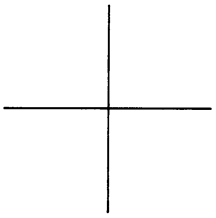
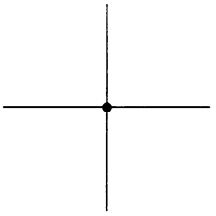
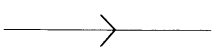
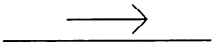
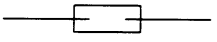
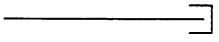
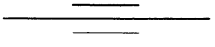
The majority of the symbols are shown in conjunction with their corresponding functional connection lines.

1) At present at the stage of draft.

SIST ISO 4067-1:1995

4 Symbols for heating and plumbing installations

4.1 Piping and piping accessories

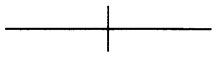
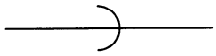
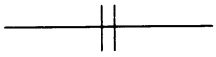
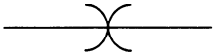
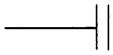
No.	Description	Symbol
4.1.0	Pipe, general symbol	
4.1.1	Method A* : the symbols (lines) indicate the location of the pipe in relation to the section : visible at section concealed at section in front of or above section The nature of fluids is indicated by designations	
4.1.2	Method B* : the symbols (lines) indicate the nature and the state of fluids	
4.1.3	Crossing pipe, not connected (Crossing lines, not connected)	
4.1.4	Junction : solid circle of diameter five times the thickness of the line	
4.1.5	Crossing pipe, connected (Pipes with cross-junction)	
4.1.6	Tee (Pipes with junction)	
4.1.7	Flexible pipe; hose	
4.1.8	Direction of flow	
4.1.9	Direction of fall	
4.1.10	Expansion joint, general symbol	
4.1.11	Cap nut	
4.1.12	Sliding support	
4.1.13	Anchor point	

* The choice of one of these two methods (method A or B) implies the exclusion of the other.

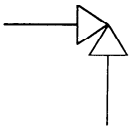
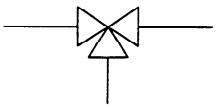
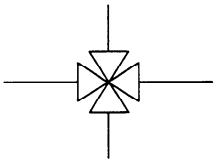
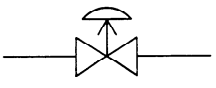
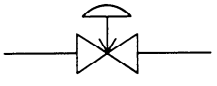
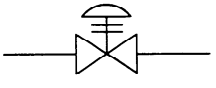
iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST ISO 4067-1:1995
https://standards.iteh.ai/catalog/standards/sist/0de708d8-3be9-46d1-a279-04bad5411100/sist-iso-4067-1-1995

SIST ISO 4067-1:1995

4.2 Joints

No.	Description	Symbol
4.2.0	Joint, general symbol	
4.2.1	Spigot and socket connection	
4.2.2	Flange connection	
4.2.3	Collar	
4.2.4	Union connection	
4.2.5	Blank flange	

4.3 Valves

No.	Description	Symbol
4.3.0	Valve, general symbol; also used for shut-off and regulating or control valve, two-way	
4.3.1	Shut-off and regulating or control valve, two-way	
4.3.2	Shut-off and regulating or control valve, three-way	
4.3.3	Shut-off and regulating or control valve, four-way	
4.3.4	Non-return valve (direction of flow from the apex to the base of the triangle indicated by a vertical line)	
4.3.5	Safety valve — opens on failure of actuating energy — closes on failure of actuating energy — retains position on failure of actuating energy	  
4.3.6	Pressure reducing valve (small triangle: high pressure)	

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST ISO 4067-1:1995
https://standards.iteh.ai/catalog/standards/sist/0de708d8-3be9-46d1-a279-04bad5411100/sist-iso-4067-1-1995