

SLOVENSKI STANDARD SIST EN ISO 6412-1:1998

01-maj-1998

Tehnične risbe - Poenostavljeno prikazovanje cevovodov - 1. del: Splošna pravila in ortogonalno prikazovanje

Technical drawings - Simplified representation of pipelines - Part 1: General rules and orthogonal representation (ISO 6412-1:1989)

Technische Zeichnungen - Vereinfachte Darstellung von Rohrleitungen - Teil 1: Allgemeine Regeln und orthogonale Darstellung (ISO 6412-1:1989)/

Dessins techniques - Représentation simplifiée des tuyaux et lignes de tuyauteries -Partie 1: Regles générales et représentation orthogonale (ISO 6412-1:1989)

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Ta slovenski standard je istoveten z: EN ISO 6412-1-1998 EN ISO 6412-1:1994

ICS:

01.100.01	Tehnično risanje na splošno	Technical drawings in general
23.040.01	Deli cevovodov in cevovodi na splošno	Pipeline components and pipelines in general

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en

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EUROPEAN STANDARD

EN ISO 6412-1

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NORME EUROPÉENNE

EUROPÄISCHE NORM

ICS 01.100.20; 23.040.90

Descriptors:

pipelines, drawings, technical drawings

English version

Technical drawings - Simplified representation of pipelines - Part 1: General rules and orthogonal representation (ISO 6412-1:1989)

PRETechnischev Zeichnungen Dessins techniques - Représentation simplifiée DARD des tuyaux et lignes de tuyauteries - Partie 1: Darstellung Règles générales et représentation orthogonale (ISO 6412-1:1989) (standard

Vereinfachte von Rohrleitungen Teil Allgemeine Regeln und orthogonale Darstellung 1.31 SISO 6412-1:1989) 1:

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CFN

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Foreword

This European Standard was taken over by CEN from the work of ISO/TC 10 "Technical drawings, product definition and related documentation" of the international Standards Organization (ISO).

The Technical Board had decided to submit the final draft for Formal Vote. The result was positive.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 1995, and conflicting national standards shall be withdrawn at the latest by April 1995.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

Endorsement notice

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INTERNATIONAL STANDARD

ISO 6412-1

> First edition 1989-10-15

Technical drawings - Simplified representation of pipelines -

Part 1: iTeh S General rules and orthogonal representation

(standards.iteh.ai) Dessins techniques – Représentation simplifiée des tuyaux et lignes du tuyauteries –

Partie 1 : Règles générales et représentation orthogonale

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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.

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 VIE W least 75 % approval by the member bodies voting.

International Standard ISO 6412-1 was prepared by Technical Committee ISO/TC 10, *Technical drawings*.

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https://standards.iteh.ai/catalog/standards/sist/cdc44b8d-ee58-4cd8-a46c-ISO 6412 consists of the following parts, under the general title *Technical drawings Simplified representation of pipelines*:

- Part 1: General rules and orthogonal representation
- Part 2: Isometric projection

Annex A of this part of ISO 6412 is for information only.

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International Organization for Standardization

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Introduction

Depending on the information it is intended to convey and the form of representation required, a distinction has to be made between graphical representation by means of orthogonal and that by means of isometric representation.

This part of ISO 6412 deals, therefore, with general rules used for both representations (orthogonal and isometric). Rules applicable only to isometric representation are given in ISO 6412-2.

For the purposes of this part of ISO 6412, all dimensions and tolerances on the drawings have been stencilled in upright lettering. It should be understood that these indications could just as well be written in free-hand or inclined (italic) lettering without altering the meaning of the indications

iTeh Statering the meaning of the indications. For the presentation of lettering (proportions and dimensions), see 4.4.

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Technical drawings — Simplified representation of pipelines

Part 1 : General rules and orthogonal representation

1 Scope

This part of ISO 6412 specifies rules and conventions for the execution of simplified drawings for the representation of all kinds of pipes and pipelines made of all sorts of materials (rigid and flexible).

It shall be used whenever pipes or pipelines have to be represented in a simplified manner.

ISO 3461-2 : 1987, General principles for the creation of graphical symbols - Part 2: Graphical symbols for use in technical product documentation.

ISO 3545 : 1981, Steel tubes and tubular shaped accessories with circular cross-section - Symbols to be used in specifica-

ISO 4067-1 : 1984, Technical drawings — Installations —

Part 1 : Graphical symbols for plumbing, heating, ventilation standards and ducting. For the purposes of this part of ISO 6412, the figures illustrate

tions.

the text only and should not be considered as design examples. 6412 JSO 5261 : 1981, Technical drawings for structural metal work. https://standards.iteh.ai/catalog/standards/sist/Soc44b8d-258-4cd8-a46g-drawings - Scales.

NOTE - This part of ISO 6412 might also be of some use for the representation of similar installations, such as ventilation or air-

conditioning systems; in such cases, the term "duct", etc. should be substituted for the term "pipe".

Normative references 2

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 6412. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 6412 are encouraged to investigate the possibility of applying the most recent editions of the standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 128 : 1982, Technical drawings - General principles of presentation.

ISO 129 : 1985, Technical drawings – Dimensioning – General principles, definitions, methods of execution and special indications.

ISO 406 : 1987, Technical drawings — Tolerancing of linear and angular dimensions.

ISO 1219 : 1976, Fluid power systems and components -Graphic symbols.

ISO 3098-1 : 1974, Technical drawings - Lettering - Part 1: Currently used characters.

ISO 6428 : 1982, Technical drawings - Requirements for microcopying.

ISO 7573 : 1983, Technical drawings - Item lists.

3 Definitions

For the purposes of ISO 6412, the following definitions apply.

orthogonal representation: Projection method in 3.1 which the projectors are at right angles to the projection plane.

3.2 isometric representation: Projection method in which each of the three coordinate axes is inclined at the same angle to the projection plane.

3.3 flow line: Representation of the flow path of the inlet or outlet streams or of material, energy or energy carriers.

General principles 4

In this clause all general principles are specified which are common to the methods of projection and to the pictorial representations, as recommended in this part of ISO 6412.

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