

**Tehnilised joonised. Torustike lihtsustatud
kujutamine. Osa 3: Ventilatsiooni- ja
äravoolutorustikusüsteemide otste omadused**

Technical drawings - Simplified representation of
pipelines - Part 3: Terminal features of ventilation
and drainage systems

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 6412-3:1999 sisaldab Euroopa standardi EN ISO 6412-3:1996 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 12.12.1999 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN ISO 6412-3:1999 consists of the English text of the European standard EN ISO 6412-3:1996.

This standard is ratified with the order of Estonian Centre for Standardisation dated 12.12.1999 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

The standard is available from Estonian standardisation organisation.

ICS 01.100.99, 23.040.01

Standardite reprodutseerimis- ja levitamiseõigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonilisse süsteemi või edastamine ükskõik millises vormis või millisel teel on keelatud ilma Eesti Standardikeskuse poolt antud kirjaliku loata.

Kui Teil on küsimusi standardite autorikaitse kohta, palun võtke ühendust Eesti Standardikeskusega:
Aru 10 Tallinn 10317 Eesti; www.evs.ee; Telefon: 605 5050; E-post: info@evs.ee

Right to reproduce and distribute Estonian Standards belongs to the Estonian Centre for Standardisation

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without permission in writing from Estonian Centre for Standardisation.

If you have any questions about standards copyright, please contact Estonian Centre for Standardisation:
Aru str 10 Tallinn 10317 Estonia; www.evs.ee; Phone: +372 605 5050; E-mail: info@evs.ee

EUROPEAN STANDARD

EN ISO 6412-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 1996

ICS 01.100.20; 23.040.90

Descriptors: see ISO document

English version

**Technical drawings - Simplified representation of
pipelines - Part 3: Terminal features of ventilation
and drainage systems (ISO 6412-3:1993)**

Dessins techniques - Représentation simplifiée
des tuyaux et lînges de tuyauteries - Partie 3:
Accessoires pour les systèmes de ventilation et
de drainage (ISO 6412-3:1993)

Technische Zeichnungen - Vereinfachte
Darstellung von Rohrleitungen - Teil 3:
Zubehörteile für Lüftungs- und
Entwässerungsanlagen (ISO 6412-3:1993)

This European Standard was approved by CEN on 1996-03-02. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Foreword

The text of the International Standard from Technical Committee ISO/TC 10 "Technical drawings, product definition and related documentation" of the International Organization for Standardization (ISO) has been taken over as a European Standard by the Technical Board of CEN .

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 October 1996, and conflicting national standards shall be withdrawn at the latest by October 1996.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of 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 and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 6412-3:1993 has been approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZA (normative).

Annex ZA (normative)
Normative references to international publications
with their relevant European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 6412-1	1989	Technical drawings - Simplified representation of pipelines - Part 1: General rules and orthogonal representation	EN ISO 6412-1	1994

INTERNATIONAL STANDARD

ISO
6412-3

First edition
1993-01-15

Technical drawings — Simplified representation of pipelines —

Part 3:

Terminal features of ventilation and drainage
systems

*Dessins techniques — Représentation simplifiée des tuyaux et lignes de
tuyauteries —*

Partie 3: Accessoires pour les systèmes de ventilation et de drainage



Reference number
ISO 6412-3:1993(E)

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 voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 6412-3 was prepared by Technical Committee ISO/TC 10, *Technical drawings, product definition and related documentation*, Sub-Committee SC 6, *Mechanical engineering documentation*.

It replaces in part ISO Recommendation R 644:1967, which is currently under revision as ISO 538.

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*
- *Part 3: Terminal features of ventilation and drainage systems*

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

Introduction

The principle of drawing practice is to depict an object to scale using lines. In simplified representations only essential features are shown, preferably in outline form (in order to save time and effort). The degree of simplification depends on the type of object represented, the scale of the drawing and the purpose of the documentation.

Technical drawings — Simplified representation of pipelines —

Part 3:

Terminal features of ventilation and drainage systems

1 Scope

This part of ISO 6412 specifies simplified representations used in technical drawings for terminal features of ventilation and drains in pipeline systems.

2 Normative references

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 indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 5456-2:—¹⁾, *Technical drawings — Projection methods — Part 2: Orthographic representations*.

ISO 6412-1:1989, *Technical drawings — Simplified representation of pipelines — Part 1: General rules and orthogonal representation*.

3 Design and representation

The simplified representations shown in clause 4 may be combined with graphical symbols, e.g. for actuators or pipes. General principles and additional graphical symbols are given in ISO 6412-1.

4 Simplified representation

See table 1.

The terminal features listed under numbers 1 to 9 are each shown in two orthographic projection views [1.1, 2.1, 3.1 etc. are views from the front and 1.2, 2.2, 3.2 etc. are views from above (see ISO 5456-2)].

The terminal feature listed under number 10 applies to directional vanes in ducts. That in 10.1. shows a bent duct with two vanes and those in 10.2 show T-junction ducts with single vanes in opposing directions.

1) To be published.