

# SLOVENSKI STANDARD SIST EN ISO 6414:1998

01-maj-1998

Tehnične risbe steklenih delov				
Technical drawings for glassware (ISO 6414:1982)				
Technische Zeichnungen für Glasgeräte (ISO 6414:1982)				
Dessins techniques de verrerie (ISO 6414:1982) DPREVIEW				
(standards.iteh.ai) Ta slovenski standard je istoveten z: EN ISO 6414:1994				
<u>SIST EN ISO 6414:1998</u> https://standards.iteh.ai/catalog/standards/sist/71a460d2-57d2-45e8-92ff- 50f63aa126cb/sist-en-iso-6414-1998				
<u>ICS:</u> 01.100.99	Drugi standardi v zvezi s tehničnim risanjem	Other standards related to technical drawings		
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#### **SIST EN ISO 6414:1998**

## EUROPEAN STANDARD

### EN ISO 6414

## NORME EUROPÉENNE

## EUROPÄISCHE NORM

October 1994

ICS 01.100.20; 21.120.30

Descriptors:

technical drawings, glassware, laboratory glassware, generalities, graphic methods

English version

### Technical drawings for glassware (ISO 6414:1982)

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# CEN

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

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

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Ref. No. EN ISO 6414:1994 E

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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of an identical text or by endorsement, at the latest by April 1995, and conflicting national standards shall be withdrawn at the latest by April 1995.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

The text of the International Standard ISO 6414:1982 was approved by CEN as a European Standard without any modification TANDARD PREVIEW

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SIST EN ISO 6414:1998 https://standards.iteh.ai/catalog/standards/sist/71a460d2-57d2-45e8-92ff-50f63aa126cb/sist-en-iso-6414-1998 International Standard



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION MEXA YHAPODHAR OPTAHUSAUUR TO CTAHDAPTUSAUUMOORGANISATION INTERNATIONALE DE NORMALISATION

# Technical drawings for glassware

Dessins techniques de verrerie

First edition - 1982-02-01

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Ref. No. ISO 6414-1982 (E)

Descriptors : technical drawings, glassware, laboratory glassware, generalities, graphic methods.

### **SIST EN ISO 6414:1998**

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

# iTeh STANDARD PREVIEW

It has been approved by the member bodies of the following countries 6414:1998

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Australia	Germany, F. R. 50f63aa128bilippines iso-6414-1998	
Austria	Hungary	Poland
Belgium	India	Romania
Brazil	Italy	South Africa, Rep. of
Canada	Japan	Spain
Czechoslovakia	Korea, Rep. of	Switzerland
Denmark	Mexico	United Kingdom
Finland	Netherlands	USA
France	Norway	USSR

No member body expressed disapproval of the document.

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# Technical drawings for glassware

#### Introduction 0

In this International Standard the figures merely illustrate the text and should not be considered as design examples. For this reason the figures are simplified and are not to scale.

For uniformity all figures in this International Standard are in first angle projection. It should be understood that alternative projection methods could have been used without prejudice to the principles established.

**3.2** In order to meet particular requirements for the design and manufacture of glassware, additional rules and conventions are specified in the following clauses.

#### 4 Sections

4.1 Small sections may be blackened, provided that the distance between their outlines on the actual drawing is not larger than 3 mm. If larger, the section shall be hatched. For thin-walled parts, see 6.1.

#### 1 Scope and field of application 4.2 Parts of different materials such as glass-metal seals which are fused together and shown in section, shall be

This International Standard establishes rules and conventions hatched differently (see figure 1). Ĭ for particular use with drawings for technical glassware, for example laboratory glassware or glassware used in other technical fields. SIST EN ISO 6414:1998

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5.1

**Treated parts** 



#### 2 References

ISO 128, Technical drawings – General principles of presentation.

ISO 129, Technical drawings – Dimensioning.<sup>1)</sup>

ISO 383, Laboratory glassware — Interchangeable conical ground joints.

ISO 641, Laboratory glassware – Interchangeable spherical ground joints.

ISO 1302, Technical drawings - Method of indicating surface texture on drawings.

ISO 4793, Laboratory sintered (fritted) filters - Porosity grading, classification and designation.

For additional information, see the annex.

#### General 3

3.1 As a general principle, all glassware shall be drawn as if it were non-transparent (opaque), see ISO 128.



Treated surfaces (for example ground, silver-plated, etched) shall be indicated in accordance with ISO 128, ISO 129

Figure 1

Figure 2

<sup>1)</sup> At present at the stage of draft. (Revision of ISO/R 129-1959.)

### ISO 6414-1982 (E)

5.2 Interchangeable conical or spherical ground joints complying with the requirements of ISO 383 and ISO 641 respectively, shall be designated in the manner described therein. Accordingly, no detailed dimensioning of that portion and no indication of the surface finish are required.

An example of a code identification for interchangeable conical ground joints is shown in figure 3.



Figure 3

#### Thin walls 6

If it is necessary to specify the wall thickness, this shall be done as shown in figure 7.



Figure 7

6.3 Internal diameters shall always be designated with the letters "int." (see figure 8).

E

7.1 Ends of tubes with special features (for example holes or

7.2 Coiled tubes represented in section or in view, may be drawn in a simplified manner (see figures 9 and 10). Their dimensioning should be determined by the functional re-

closed ends) shall be drawn in section (see figure 8).

quirements or the method of manufacture.

iTeh STANDARD PREVIE W Figure 8

6.1 When drawn in section, thin walls shall be represented, ards.iteh.ai) in spite of their real wall thickness, by lines with a thickness of ards.iteh.ai) at least twice that used for visible outlines (see figures 4 and 5, and 4.1).

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Figure 4

Figure 5

6.2 Unless otherwise specified (see 6.3), the dimension shown for the diameter of thin walls shall be the external diameter (see figures 6 and 7). The method to be applied depends on the particular requirement of the drawing.















<sup>1)</sup> In order to permit copying of any drawing, the dotting shall be very clear.

<sup>2)</sup> Specification of the adhesive.