



**SLOVENSKI STANDARD**  
**SIST EN ISO 13351:2009**  
**01-april-2009**

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**Industrijski ventilatorji - Mere (ISO 13351:1996)**

Industrial fans - Dimensions (ISO 13351:1996)

Ventilateurs industriels - Dimensions (ISO 13351:1996)

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**Ta slovenski standard je istoveten z: EN ISO 13351:2008**

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**ICS:**

23.120 Ventilators. Fans. Air-conditioners

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN ISO 13351**

October 2008

ICS 23.120

English Version

## Industrial fans - Dimensions (ISO 13351:1996)

Ventilateurs industriels - Dimensions (ISO 13351:1996)

This European Standard was approved by CEN on 2 October 2008.

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This European Standard exists 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 CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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## Foreword

The text of ISO 13351:1996 has been prepared by Technical Committee ISO/TC 117 "Industrial fans" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 13351:2008 by Technical Committee CEN/TC 156 "Ventilation for buildings" the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by April 2009, and conflicting national standards shall be withdrawn at the latest by April 2009.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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# INTERNATIONAL STANDARD

**ISO**  
**13351**

First edition  
1996-06-15

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## Industrial fans — Dimensions

**iTeh STANDARD PREVIEW**  
*Ventilateurs Industriels — Dimensions*  
**(standards.iteh.ai)**

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Reference number  
ISO 13351:1996(E)

## ISO 13351:1996(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 13351 was prepared by Technical Committee ISO/TC 117, *Industrial fans*.

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## Introduction

This International Standard gives details of circular and rectangular flanges as well as specifying “fan size designation”. For circular flanges, the values specified in ISO 6580:1981, *General purpose industrial fans — Circular flanges — Dimensions* are retained for the next five years in parallel with those given in table 2 of this International Standard.

Though not constraining a manufacturer's choice of flange details, this International Standard provides the opportunity for interchangeability and therefore a reduction in technical obstacles to free trading.

Throughout this International Standard, the principal dimensions are based on the rounded values of “preferred” numbers given in ISO 497.

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# Industrial fans — Dimensions

## 1 Scope

This International Standard specifies size designations for industrial fans and specifies dimensions for the circular and rectangular flanges of general purpose industrial fans as defined in 3.1.1. It does not apply to cross-flow fans, or fan appliances used for household or similar applications.

For circular flanges, this International Standard provides two different flange series, one for standard casing thicknesses and a second for heavy duty fans as used on board sea-going vessels or in heavy industry.

In order not to restrict fan designs unduly, only the pitch diameter, hole numbers and hole diameters are standardized. Flange thickness as well as internal and external flange diameters can be chosen freely within the limits of good engineering practice.

## 2 Normative references

The following standards contain provisions, which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreement based on this International Standard 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 3:1973, *Preferred numbers — Series of preferred numbers*.

ISO 497:1973, *Guide to the choice of preferred numbers and of series containing more rounded values of preferred numbers*.

ISO 13349:—<sup>1)</sup>, *Industrial fans — Terminology*.

## 3 Definitions, symbols and abbreviations

### 3.1 Definitions

For the purposes of this International Standard, the definitions given in ISO 13349 and the following definitions apply.

**3.1.1 general purpose industrial fan:** Fan for which the flange dimensions conform to those given in figure 4 and table 2.

**3.1.2 heavy duty fan:** Fan for which the flange dimensions are greater and conform to those given in figure 4 and table 3.

**3.1.3 nominal impeller tip diameter,  $D$ :** Diameter of the impeller tip on which the design of the fan is based.

### 3.2 Symbols and abbreviations

For the purposes of this International Standard, the following symbols and abbreviations apply:

$D$	nominal impeller tip diameter (see figures 1, 2 and 3)
$D_R$	actual impeller tip diameter (see figures 1, 2 and 3)
$d_1$	pitch circle diameter
$d_2$	hole diameter
$d_3$	bolt diameter
$d_4$	washer diameter
$e$	casing thickness
$g$	hole offset
$l$	arc length between bolt holes
$N$	number of holes
$\alpha$	angle between bolt holes

1) To be published.