

SLOVENSKI STANDARD SIST EN 12220:1999

01-september-1999

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Ventilation for buildings - Ductwork - Dimensions of circular flanges for general ventilation

Lüftung von Gebäuden - Luftleitungen - Maße von runden Flanschen für allgemeine Lüftungszwecke iTeh STANDARD PREVIEW

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Réseau de conduits - Brides circulaires pour ventilation générale - Dimensions

<u>SIST EN 12220:1999</u>

Ta slovenski standard je istoveten z: 12220-1998

ICS:

23.040.60 Prirobnice, oglavki in spojni Flanges, couplings and joints elementi

91.140.30 Úl^: læ^çæ} ÃÁ Á Ã Æ Ventilation and air-conditioning

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

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Descriptors: buildings, ventilation, air conditioning, aeraulic pipes, metal plates, pipe flanges, dimensions

English version

Ventilation for buildings - Ductwork - Dimensions of circular flanges for general ventilation

Réseau de conduits - Brides circulaires pour ventilation générale - Dimensions

Lüftung von Gebäuden - Luftleitungen - Maße von runden Flanschen für allgemeine Lüftungszwecke

This European Standard was approved by CEN on 13 February 1998.

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.

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 Central Secretariat has the same status as the official versions.

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

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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Page 2 EN 12220:1998

Contents

		Page
Foreword		3
Introduction		4
1 Scope		5
2 Normative references		5
3 Definitions and symbols		5
4 Dimensions	¥ .	6
Annexes		
A (informative) Examples of thickness, breadth and materials of flanges		8
B (informative) Examples of different constructions of flanges		9

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 156 "Ventilation for buildings", the secretariat of which is held by BSI.

This standard is one of a series of standards for ductwork used for ventilation and air conditioning of buildings for human occupancy.

The position of this standard in the field of the mechanical building services is shown in figure 1.

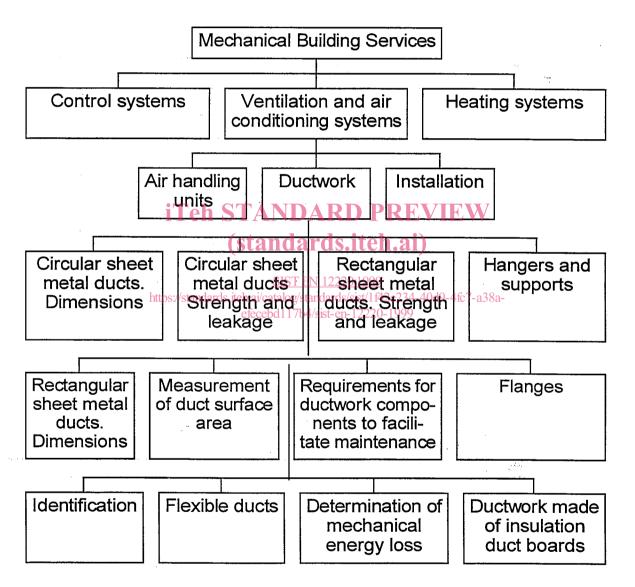


Figure 1: Position of EN 12220 in the field of mechanical building service.

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 1998, and conflicting national standards shall be withdrawn at the latest by October 1998.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium,

Page 4 EN 12220:1998

Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

This standard has been prepared by CEN/TC 156 to specify dimensions and tolerances for circular flanges used in ventilation systems.

It should be noted that circular ducts are normally joined without flanges. The purpose of this standard is intended to ensure uniformity of connections between circular ducts and items of equipment, e.g. sound attenuators, filters, etc.

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1 Scope

This European Standard specifies dimensional characteristics of circular flanges for sheet metal ductwork. It applies to ductwork used in ventilating and air conditioning systems in buildings, subject to human occupancy.

For flange dimensions of industrial fans see ISO 6580 and ISO 13351.

2 Normative references

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 the 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.

EN 1506	Ventilation for buildings Sheet metal air ducts and fittings with circular cross section Dimensions.
ISO 6580	General purpose industrial fans - Circular flanges - Dimensions.
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ISO 13351	Industrial fans - Dimensions. (standards.iteh.ai)
CR 12792	Ventilation for buildings - Symbols and terminology.
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efecebd117b4/sist-en-12220-1999

3 Definitions and symbols

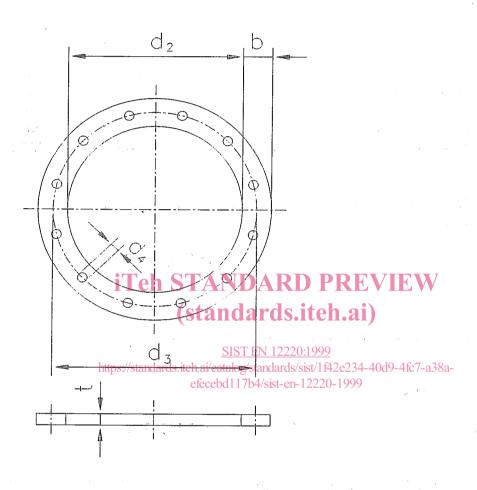
For the purposes of this standard, the definitions given in CR 12792 together with the following apply:

- **3.1 nominal diameter d:** The reference dimension in mm used for designation, calculation and application of flanges.
- **3.2 deviation :** The difference between the upper or lower limit of the size and the corresponding nominal size.

Page 6 EN 12220:1998

4 Dimensions

Flange dimensions are shown in figure 2.



NOTE: for b and t see table A.1.

Figure 2: Circular flange

The flange construction shown in figure 2 is an example, other constructions are possible.

Table 1: Circular flanges - dimensions

Nominal	d ₂ 1)	Deviations	Pitch circle	Hole	Number of holes	Bolt
diameter d			diameter d ₃	diameter d4		
mm	mm	mm	$\pm 0,5$	$\pm 0,5$		
			mm	mm		
80	82	+1	112			
100	102	0	132	9,5	4	M 8
125	127		157			
150 ²⁾	152		182			
160	162	+ 1,5	192	9,5	6	M 8
200	203	0	233			
250	253		283			
300 ²⁾	303		337			
315	318		352			
355 ²⁾	358	+1,5	392	9,5	8	M 8
400	404	0	438	·		
450 ²⁾	454		488			
500	504		538			
560 ²⁾	564		600			
630	634		670		12	
710 ²⁾	714	+2	750	9,5		M 8
800	804	0	840			
900 ²⁾	904	Teh ST	AN 1940	RD PRI	EVIII6V	
1000	1005		1041	I • 4 . T.	• `	
1120 ²⁾	1125	+2 (\$	anu ₁₁₆₉ 0	S.15 §11.2	24	M 8
1250	1255	0	1299	-		

1) The inside diameter d₂ of the flanges is based on spiral wound ducts. For other types of ducts the dimension d₂ can be different and ards. iteh. ai/catalog/standards/sist/1f42e234-40d9-4fc7-a38a
2) Additional sizes efecebd 117b4/sist-en-12220-1999

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NOTE: It is intended that additional sizes, which are used in some countries, should be phased out and may be removed from a future edition of the standard.