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Plastics piping systems - Plastics components - Determination of dimensions

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Determination of dimensions

EESTI STANDARDI EESSÖNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 3126:2005 sisaldb Euroopa standardi EN ISO 3126:2005 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 3126:2005 consists of the English text of the European standard EN ISO 3126:2005.
Käesolev dokument on jõustatud 28.04.2005 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.	This document is endorsed on 28.04.2005 with the notification being published in the official publication of the Estonian national standardisation organisation.
Standard on kätesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

Käsitlusala: This document specifies methods for measurement and/or determination of the dimensions of plastics pipes and fittings and the accuracy of the measurement.	Scope: This document specifies methods for measurement and/or determination of the dimensions of plastics pipes and fittings and the accuracy of the measurement.
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English version

Plastics piping systems – Plastics components

Determination of dimensions

(ISO 3126:2005)

Systèmes de canalisations en plastiques – Composants en plastiques – Détermination des dimensions
(ISO 3126:2005)

Kunststoff-Rohrleitungssysteme – Rohrleitungsteile aus Kunststoffen – Bestimmung der Maße
(ISO 3126:2005)

This European Standard was approved by CEN on 2004-02-21.

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 Management Centre 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 Management Centre has the same status as the official versions.

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

CEN

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

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Contents

	Page
Foreword.....	3
1 Scope.....	4
2 Normative references	4
3 Terms, definitions and symbols	4
3.1 Terms and definitions.....	4
3.2 Symbols	4
4 Measuring devices.....	5
4.1 General requirements.....	5
4.2 Instruments	6
5 Determination of dimensions.....	6
5.1 General	6
5.2 Wall thicknesses	7
5.3 Diameters.....	8
5.4 Out-of-roundness	9
5.5 Pipe lengths	9
5.6 End squareness of pipes and fittings	10
6 Determination of other geometrical characteristics related to fittings	11
6.1 General	11
6.2 Bends	12
6.3 Branches	15
6.4 Reducers	17
7 Flanges, loose flanges and collar	18
7.1 General	18
7.2 Outside diameter of the flange, loose flange and collar.....	20
7.3 Bore diameter of the flange or collar.....	20
7.4 Bolt hole diameter	20
7.5 Bolt hole distribution.....	20
7.6 Concentricity of bolt circle diameter	20
7.7 Pitch circle diameter.....	20
7.8 Shoulder diameter of flange and collar	21
7.9 Flange and collar thickness	21
7.10 Length of the flange and collar.....	21
8 Other measurements	21
Bibliography	21

Foreword

This document (EN ISO 3126:2005) has been prepared by Technical Committee CEN /TC 155, "Plastics piping systems and ducting systems", the secretariat of which is held by NEN in collaboration with Technical Committee ISO/TC 138 "Plastics pipes, fittings and valves for the transport of fluids".

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 September 2005, and conflicting national standards shall be withdrawn at the latest by September 2005.

This document is one of a series of standards on test methods, which support system standards for plastics piping systems and ducting systems.

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

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1 Scope

This document specifies methods for measurement and/or determination of the dimensions of plastics pipes and fittings and the accuracy of the measurement.

It specifies procedures for measuring angles, diameters, lengths, squareness and wall thicknesses for the purposes of checking conformity to geometric limits.

NOTE This document is using metric units. However the procedures and tolerances are applicable to other units by using appropriate conversion factors.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/R 463, *Dial gauges reading in 0,01 mm, 0,001 in and 0,0001 in.*

ISO 3599, *Vernier callipers reading to 0,1 and 0,05 mm.*

ISO 3611, *Micrometer callipers for external measurement.*

ISO 6507-1, *Metallic materials — Vickers hardness test — Part 1: Test method.*

3 Terms, definitions and symbols

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1.1

accuracy

closeness of agreement between a test result and the accepted reference value

NOTE The term "accuracy", when applied to a set of test results, involves a combination of random components and a common systematic error or bias component (ISO 3534-1).

3.1.2

calibration

set of operations that establish, under specified conditions, the relationship between values of quantities indicated by a measuring instrument or measuring system, or values represented by a material measure or a reference material, and the corresponding values realised by standards

3.1.3

reference standard

internationally accepted definition of a given unit of measurement

3.2 Symbols

b_1 : distance between the edge of a flange bolt hole and its bore

b_2 : distance between the edge of a flange bolt hole and its outside diameter

b_3 : distance between the centre of a flange bolt hole and its bore

b_4 : distance between the centre of a flange bolt hole and its outside diameter

c_1 : distance between the edges of two adjacent flange bolt holes

c_2 : distance between the centres of two adjacent flange bolt holes