

**Äärikud ja nende ühendused. Tihendite
mõõtmed PN-tähistusega äärikute
jaoks. Osa 1: Mittemetallist lamedad
tihendid sissepandava osaga või ilma**

Flanges and their joints - Dimensions of gaskets for
PN-designated flanges - Part 1: Non-metallic flat
gaskets with or without inserts

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 1514-1:1999 sisaldab Euroopa standardi EN 1514-1:1997 ingliskeelset teksti. Käesolev dokument on jõustatud 23.11.1999 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN 1514-1:1999 consists of the English text of the European standard EN 1514-1:1997. This document is endorsed on 23.11.1999 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.
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Käsitlusala: Käesolev standard määrab kindlaks mittemetallist, lamedate, sissepandava osaga või sissepandava osata tihendite mõõtmed ja märgistamise. Tihendid on ette nähtud kasutamiseks koos normdokumentides EN 1092-1, EN 1092-2, EN 1092-3 ja EN 1092-4 kindlaks määratud äärikutega ning normdokumentides EN 545, EN 598 ja EN 969 kindlaks määratud torude ja armatuuriga, nimirõhuga kuni PN 63 (kaasa arvatud) ja nimiläbimõõduga kuni DN 4000 (kaasa arvatud).	Scope:
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ICS 23.040.80

Võtmesõnad: mõõtmed, märgistus, toruäärikud, toruühendused, tööstuslik torustik, äärikühendused

ICS 23.040.80

Descriptors: Flanges, gaskets.

English version

Flanges and their joints

Dimensions of gaskets for PN-designated flanges

Part 1: Non-metallic flat gaskets with or without inserts

Brides et leurs assemblages – Dimensions
des joints pour les brides désignées PN –
Partie 1: Joints plats non métalliques avec
ou sans insert

Flansche und ihre Verbindungen –
Maße für Dichtungen für Flansche mit
PN-Bezeichnung – Teil 1: Flachdichtungen
aus nichtmetallischem Werkstoff mit oder
ohne Einlagen

This European Standard was approved by CEN on 1997-01-09.

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.

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CEN

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

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 74 "Flanges and their joints", the secretariat of which is held by DIN.

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 1997, and conflicting national standards shall be withdrawn at the latest by October 1997.

The annex A is informative and contains "Information to be supplied by the purchaser".

The annex B is informative and contains "A-deviations".

The annex C is informative and contains "Gasket materials".

EN 1514 consists of 4 parts:

Part 1 Specification for non-metallic flat gaskets with or without inserts

Part 2 Specification for spiral wound gaskets for use with steel flanges

Part 3 Specification for non-metallic PTFE envelope gaskets

Part 4 Specification for corrugated, flat or grooved metallic and filled metallic gaskets for use with steel flanges

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.

Introduction

Dimensions for the internal diameter of gaskets are a compromise between all requirements of prEN 1092-1, prEN 1092-2, prEN 1092-3 and prEN 1092-4 so that a single value is given for each gasket size.

WARNING: Gaskets made to this standard may contain asbestos. Materials containing asbestos may be subject to legislation that requires precautions to be taken when handling them to ensure that they do not constitute a hazard to health (see annex B). Attention is drawn to the relevant EEC directives.

1 Scope

This European standard specifies the dimensions and marking of non-metallic flat gaskets, with or without inserts, for use with flanges complying with prEN 1092-1, prEN 1092-2, prEN 1092-3 and prEN 1092-4, and pipes and fittings complying with EN 545, EN 598 and EN 969 up to and including PN 63 and up to and including DN 4000.

NOTE 1: Dimensions of other types of gaskets for use with flanges complying with prEN 1092-1, prEN 1092-2, prEN 1092-3 and prEN 1092-4 are given in EN 1514-2, EN 1514-3 and EN 1514-4.

NOTE 2: Annex A lists information that should be supplied by the purchaser when ordering gaskets and annex C lists typical materials for the manufacture of non-metallic flat gaskets.

NOTE 3: Clause 9 gives inside diameters of gaskets specifically for use with flanges complying with EN 545, EN 598 and EN 969, and also with ISO 2531.

NOTE 4: This standard does not provide dimensions to suit PN 100 flanges, as gaskets covered by this standard are not necessarily intended for such applications.

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, 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 545	Ductile iron pipes, fittings, accessories and their joints for water pipelines - Requirements and test methods
EN 598	Ductile iron pipes, fittings, accessories and their joints for sewerage application - Requirements and test methods
EN 969	Ductile iron pipes, fittings, accessories and their joints for gas pipelines - Requirements and test methods
prEN 1092-1	Flanges and their joints - Circular flanges for pipes, valves and fittings Part 1: Steel flanges - PN designated

prEN 1092-2	Flanges and their joints Part 2: Cast iron flanges
prEN 1092-3	Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories Part 3: Copper alloy and composite flanges - PN designated
prEN 1092-4	Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories - PN designated Part 4: Aluminium alloy flanges
EN 1333	Pipework components - Definition and selection of PN
EN ISO 6708	Pipework components - Definition and selection of DN (nominal size) (ISO 6708: 1995)
ISO 2531	Ductile iron pipes, fittings and accessories for pressure pipelines

3 Definitions

For the purposes of this standard, the following definitions apply:

3.1 DN: See EN ISO 6708.

3.2 PN: See EN 1333.

4 Designations

4.1 Range of PN Designations

Gaskets shall be designated as suitable for use with one or more of the following PN designations of flange:

PN 2,5	PN 25
PN 6	PN 40
PN 10	PN 63
PN 16	