

---

**Prirobnice in prirobnični spoji - Mere tesnil za prirobnice z oznako PN - 4. del: Valovita, ravna ali rebrasta kovinska tesnila in kovinska tesnila z vložkom za jeklene prirobnice**

Flanges and their joints - Dimensions of gaskets for PN-designated flanges - Part 4: Corrugated, flat or grooved metallic and filled metallic gaskets for use with steel flanges

Flansche und ihre Verbindungen - Maße für Dichtungen für Flansche mit PN-Bezeichnung - Teil 4: Dichtungen aus Metall mit gewelltem, flachem oder gekerbttem Profil für Stahlflansche

Brides et leurs assemblages - Dimensions des joints pour les brides désignées PN - Partie 4: Joints métalliques ondulés, plats ou striés et joints métalloplastique pour brides en acier

**Ta slovenski standard je istoveten z: EN 1514-4:1997**

**ICS:**

23.040.60	Prirobnice, oglavki in spojni elementi	Flanges, couplings and joints
23.040.80	Tesnila za cevne zveze	Seals for pipe and hose assemblies

**SIST EN 1514-4:1998** en

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST EN 1514-4:1998

<https://standards.iteh.ai/catalog/standards/sist/7f9a6083-f76d-47d0-bf82-4b8573470ca7/sist-en-1514-4-1998>

EUROPEAN STANDARD

EN 1514-4

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 1997

ICS 23.040.80

Descriptors: industrial piping, flange connections, pipe joints, metal gaskets, gaskets, flat seals, pipe flanges, steels, dimensions, marking

English version

**Flanges and their joints - Dimensions of gaskets  
for PN-designated flanges - Part 4: Corrugated,  
flat or grooved metallic and filled metallic gaskets  
for use with steel flanges**

Brides et leurs assemblages - Dimensions des joints pour les brides désignées PN - Partie 4: Joints métalliques ondulés, plats ou striés et joints métalloplastiques pour brides en acier

Flansche und ihre Verbindungen - Maße für Dichtungen für Flansche mit PN-Bezeichnung - Teil 4: Dichtungen aus Metall mit gewelltem, flachem oder gekerbtem Profil für Stahlflansche

<https://standards.iteh.ai/catalog/standards/sist/79a6083-f76d-47d0-bf82-4b8573470ca7/sist-en-1514-4-1998>

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.

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

# CEN

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

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

Page 2  
EN 1514-4:1997

<b>Contents</b>	<b>Page</b>
Foreword	3
Introduction	4
1 Scope	4
2 Normative references	5
3 Definitions	5
3.1 DN	5
3.2 PN	5
4 Designations	6
4.1 Range of PN designations	6
4.2 Range of DN nominal sizes	6
4.3 Gasket types	6
4.4 Information to be supplied by the purchaser	6
5 Gasket designs	6
6 Gasket types	7
7 Dimensions	8
8 Marking	10
Annex A (informative) Information to be supplied by the purchaser	11
Annex B (informative) A-deviation	12

Iteh STANDARD PREVIEW  
(standards.iteh.ai)

[SIST EN 1514-4:1998](https://standards.iteh.ai/catalog/standards/sist/79a6083-f76d-47d0-bf82-4b8573470ca7/sist-en-1514-4-1998)

<https://standards.iteh.ai/catalog/standards/sist/79a6083-f76d-47d0-bf82-4b8573470ca7/sist-en-1514-4-1998>

## 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".

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.

<https://standards.iteh.ai/catalog/standards/sist/79a6083-f76d-47d0-bf82-4b8573470ca7/sist-en-1514-4-1998>

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

## Introduction

**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 relevant EEC directives.

## 1 Scope

This European standard specifies the dimensions and marking of IBC (inside bolt circle) corrugated, flat or grooved metallic and filled metallic gaskets for use in conjunction with flanges complying with prEN 1092-1 for PN 10, PN 16, PN 25, PN 40, PN 63 and PN 100, up to and including DN 900.

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

NOTE 2: Annex A, lists information that should be supplied by the purchaser when ordering gaskets.

<https://standards.iteh.ai/catalog/standards/sist/79a6083-f76d-47d0-bf82-4b8573470ca7/sist-en-1514-4-1998>

## 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.

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)

## 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 10	PN 40
PN 16	PN 63
PN 25	PN 100

### 4.2 Range of DN (nominal sizes)

Gasket nominal sizes shall be designated in accordance with the ranges specified in table 1.

### 4.3 Gasket types

Gasket types as defined in clause 6 and illustrated in figure 1, shall be designated as:

Type SC/A                      Type CR/A

Type SC/B                      Type CR/B

Type SC/C                      Type CR/C

Type SC/D                      Type CR/D

Type SC/E                      Type CR/E

### 4.4 Information to be supplied by the purchaser

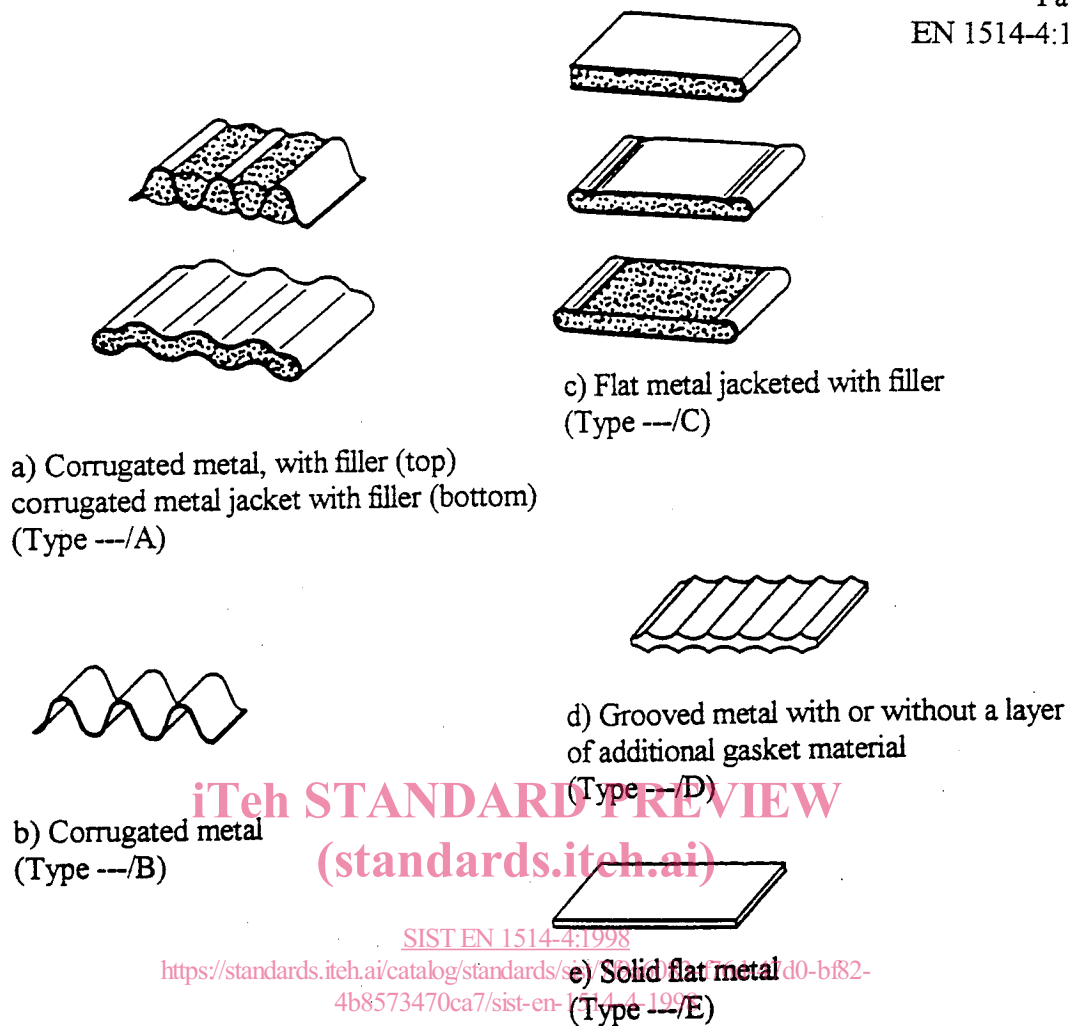
NOTE: For information to be supplied by the purchaser, see annex A.

## 5 Gasket designs

Gaskets shall be one of the designs shown in figure 1.

NOTE: The selection of the gasket should take into account the fluid, the operating conditions, the properties of the gasket materials, the type and surface finish of the flange facing and the flange bolt loading. It is recommended that selection of gaskets for any particular application is made in consultation with the gasket supplier (see annex A).





**Figure 1: Corrugated, flat or grooved metallic and filled metallic gaskets**

## 6 Gasket types

Gaskets shall be for use with type A (flat face) or type B (raised face) flanges (see figure 2) and shall be one of the following types:

- a) self-centring, Type SC/.... (see 4.3);
- b) incorporating a centring ring, Type CR/.... (see 4.3).

NOTE: Type A and type B flange facings are shown in prEN 1092-1.