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**Prirobnice in prirobnični spoji - Mere tesnil za prirobnice z oznako PN - 2. del:**  
**Spiralna tesnila za jeklene prirobnice**

Flanges and their joints - Dimensions of gaskets for PN-designated flanges - Part 2:  
Spiral wound gaskets for use with steel flanges

Flansche und ihre Verbindungen - Maße für Dichtungen für Flansche mit PN-  
Bezeichnung - Teil 2: Spiraldichtungen für Stahlflansche

Brides et leurs assemblages - Dimensions des joints pour les brides désignées PN -  
Partie 2: Joints spirales pour utilisation avec des brides en acier

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**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

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EUROPEAN STANDARD

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English version

**Flanges and their joints - Dimensions of gaskets  
for PN-designated flanges - Part 2: Spiral wound  
gaskets for use with steel flanges**

Brides et leurs assemblages - Dimensions des  
joints pour les brides désignées PN - Partie 2:  
Joints spirales pour utilisation avec des  
brides en acier

Flansche und ihre Verbindungen - Maße für  
Dichtungen für Flansche mit PN-Bezeichnung -  
Teil 2: Spiraldichtungen für Stahlflansche

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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.

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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 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of an identical text or by endorsement, at the latest by October 1997, and conflicting national standards shall be withdrawn at the latest by October 1997.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

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

The dimensions of spiral wound gaskets for tongue and groove flanges and spigot and recess flanges to EN 1092-1 are not included in this standard. Such gaskets may be available, however, for these types of flanges and the purchaser is advised to consult the manufacturer as to their availability.

**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 spiral wound gaskets for use in conjunction with flat face and raised face flanges complying with prEN 1092-1 for PN 10, PN 16, PN 25, PN 40, PN 63 and PN 100 and 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, EN1514-3 and EN 1514-4.

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

## 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.

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## 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 as illustrated in figure 1, shall be designated as:

- Type C/I : Sealing element with centring ring and inner ring;
- Type C/O : Sealing element with centring ring.

### 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 for which dimensions are specified shall be of one of the designs shown in figure 1.

The clearance between the sealing element and the centring ring shall be such that the sealing element cannot fall out of the ring during normal handling.

NOTE 1: Figure 2 shows a typical design of a metallic spiral wound gasket and, for use with type A or type B flanges.

NOTE 2: Type A and type B flange facings are illustrated in prEN 1092-1.

NOTE 3: The profile of the metal winding of the sealing element is at the option of the manufacturer.



NOTE 4: The materials of the gasket are chosen by the manufacturer to suit the operating conditions. Therefore, the purchaser should define the operating conditions in the enquiry and/or order (see annex A).

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.

NOTE 5: The attention of the user is drawn to the load necessary to compress spiral wound gaskets and the available load with PN 10 and PN 16 flanges should be verified as adequate prior to using these gaskets.

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