



**NSAI**  
Standards

Irish Standard  
I.S. EN 1514-2:2014

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

**I.S. EN 1514-2:2014**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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English Version

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

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

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

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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 CEN-CENELEC Management Centre has the same status as the official versions.

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## Foreword

This document (EN 1514-2:2014) 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of an identical text or by endorsement, at the latest by March 2015, and conflicting national standards shall be withdrawn at the latest by March 2015.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 1514-2:2005.

The reason for the revision is to include dimensions for PN 16. The dimensions of the various components of the spiral wound gaskets described and their tolerances have been set with the objective of controlling the possibility of protrusion of the inner ring into the bore of the pipeline being sealed. The other features of this European Standard have been set in order to ensure good functionality of spiral wound gaskets made according to this European Standard.

EN 1514, *Flanges and their joints — (Dimensions of) gaskets for PN-designated flanges*, consists of the following parts:

- *Part 1: Non-metallic flat gaskets with or without inserts;*
- *Part 2: Spiral wound gaskets for use with steel flanges;*
- *Part 3: Non-metallic PTFE envelope gaskets;*
- *Part 4: Corrugated, flat or grooved metallic and filled metallic gaskets for use with steel flanges;*
- *Part 6: Covered serrated metal gaskets for use with steel flanges;*
- *Part 7: Covered metal jacketed gaskets for use with steel flanges;*
- *Part 8: Polymeric O-Ring gaskets for grooved 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, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

**EN 1514-2:2014 (E)**

## **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 part of EN 1514. Such gaskets may be available for these types of flange and the purchaser is advised to consult the manufacturer as to their availability.

## 1 Scope

This part of EN 1514 specifies the dimensions and marking of spiral wound gaskets for use in conjunction with flat face and raised face flanges complying with the requirements of EN 1092-1 for PN 10, PN 16, PN 25, PN 40, PN 63, PN 100 and PN 160 and up to and including DN 1 000.

NOTE 1 Dimensions of other types of gaskets for use with flanges to EN 1092-1, EN 1092-2, EN 1092-3 and EN 1092-4 are given in EN 1514-1, EN 1514-3, EN 1514-4, EN 1514-6, EN 1514-7 and EN 1514-8.

NOTE 2 Annex A lists information to be supplied by the purchaser when ordering gaskets in circumstances where the choice of the gasket materials appropriate to the service is left to the manufacturer.

## 2 Normative references

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

EN 1333, *Flanges and their joints - Pipework components - Definition and selection of PN*

EN ISO 6708, *Pipework components - Definition and selection of DN (nominal size) (ISO 6708)*

## 3 Terms and definitions

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

### 3.1 DN

alphanumeric designation of size for components of a pipework system, which is used for reference purposes. It comprises the letters DN followed by a dimensionless whole number which is indirectly related to the physical size, in millimetres, of the bore or outside diameter of the end connections

Note 1 to entry: The number following the letters DN does not represent a measurable value and should not be used for calculation purposes except where specified in the relevant standard.

Note 2 to entry: In those standards which use the DN designation system, any relationship between DN and component dimensions should be given (e.g. DN/OD or DN/ID).

Note 3 to entry: The preferred DN values are:

DN 10	DN 250	DN 1 500
DN 15	DN 300	DN 1 600
DN 20	DN 350	DN 1 800
DN 25	DN 400	DN 2 000
DN 32	DN 450	DN 2 200
DN 40	DN 500	DN 2 400
DN 50	DN 600	DN 2 600
DN 60	DN 700	DN 2 800
DN 65	DN 800	DN 3 000
DN 80	DN 900	DN 3 200

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