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

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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English Version

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

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

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

This European Standard was approved by CEN on 3 June 2024.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 12560-1:2024) 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of an identical text or by endorsement, at the latest by February 2025, and conflicting national standards shall be withdrawn at the latest by February 2025.

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

This document supersedes EN 12560-1:2001.

In comparison with the previous edition EN 12560-1:2001, the following technical modifications have been made:

- a) normative references have been updated;
- b) terms and definitions have been updated;
- c) Clause 4 "Symbols and abbreviations" has been inserted;
- d) in Clause 5 information to be supplied by the purchaser has been revised and more details have been added;
- e) in Clause 8 table with gasket dimensions have been arranged according gasket types and tolerances for gaskets have been introduced in 8.3;
- f) in Clause 9 former content has been incorporated in Clause 8 and markings have been revised;
- g) former Annex A "A-deviation" has been incorporated in 5.5;
- h) new Annex A "gasket materials" to give guidance how to mark gaskets;
- i) the document has been editorially revised.

EN 12560 will consist 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 5: Metallic ring-joint 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*

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Introduction

Dimensions for the internal diameter of gaskets are a compromise between all requirements of EN 1759-1, EN 1759-3 and EN 1759-4 so that a single value is given for each gasket size.

EN 12560-1:2024 (E)**1 Scope**

This document specifies the dimensions, types, designation and marking of non-metallic flat gaskets, with or without inserts, for flanges in accordance with EN 1759-1, EN 1759-3 and EN 1759-4, for Class 150, Class 300, Class 600 and Class 900 for nominal sizes DN 15 to DN 600. In addition, this document also gives guidance on typical materials used and how they should be marked.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

EN 1759-1, *Flanges and their joint — Circular flanges for pipes, valves, fittings and accessories, Class designated — Part 1: Steel flanges, NPS 1/2 to 24*

EN 1759-3, *Flanges and their joints — Circular flanges for pipes, valves, fittings and accessories, Class designated — Part 3: Copper alloy flanges*

EN 1759-4, *Flanges and their joints — Circular flanges for pipes, valves, fittings and accessories, Class designated — Part 4: Aluminium alloy flanges*

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