



SLOVENSKI STANDARD
SIST EN 12560-3:2002

01-maj-2002

**Prirobnice in prirobnični spoji - Tesnila za prirobnice z oznako Class - 3. del:
Nekovinska tesnila iz mehkega materiala z ovojem iz PTFE**

Flanges and their joints - Gaskets for Class-designated flanges - Part 3: Non-metallic PTFE envelope gaskets

Flansche und ihre Verbindungen - Dichtungen für Flansche mit Class-Bezeichnung - Teil 3: Nichtmetallische Weichstoffdichtungen mit PTFE-Mantel

Brides et leurs assemblages - Joints pour les brides désignées Class - Partie 3: Joints non métalliques a enveloppe PTFE

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Ta slovenski standard je istoveten z: EN 12560-3:2001

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
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 12560-3

January 2001

ICS 23.040.80

English version

**Flanges and their joints - Gaskets for Class-designated flanges -
Part 3: Non-metallic PTFE envelope gaskets**

Brides et leurs assemblages - Joints pour les brides
désignées Class - Partie 3: Joints non métalliques à
enveloppe PTFE

Flansche und ihre Verbindungen - Dichtungen für Flansche
mit Class-Bezeichnung - Teil 3: Nichtmetallische
Weichstoffdichtungen mit PTFE-Mantel

This European Standard was approved by CEN on 28 December 2000.

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 Management Centre or to any CEN member.

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 Management Centre has the same status as the official versions.

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

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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 July 2001, and conflicting national standards shall be withdrawn at the latest by July 2001.

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

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

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Introduction

EN 12560 consists of seven 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: Kammprofile gaskets for use with steel flanges

Part 7: Covered metal jacketed gaskets for use with steel flanges

The terminology and definitions in this standard are in accordance with those given in ISO standards.

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 A). Attention is drawn to relevant EC directives.

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1 Scope

This European Standard specifies the dimensions and marking of IBC (inside bolt circle) non-metallic PTFE envelope gaskets for use with flanges complying with prEN 1759-1:2000, prEN 1759-3:1994 and prEN 1759-4:1997 for Class 150 and Class 300 for nominal sizes DN 15 and DN 600.

NOTE Dimensions of other types of gaskets for use with flanges complying with prEN 1759-1:2000, prEN 1759-3:1994 and prEN 1759-4:2000 are given in prEN 12560-1:2000, prEN 12560-2:2000, prEN 12560-4:2000, prEN 12560-5:2000, prEN 12560-6:2000 and prEN 12560-7:2000.

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 (including amendments).

prEN 1759-1:2000

Flanges and their joints — Circular flanges for pipes, valves, fittings and accessories, Class designated — Part 1: Steel flanges NPS ½ to NPS 24

prEN 1759-3:1994

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

prEN 1759-4:1997

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

EN ISO 6708

Pipework components — Definition and selection of DN (nominal size) (ISO 6708:1995)

3 Terms and definitions

For the purposes of this European Standard the following terms and definitions apply:

3.1

DN

see EN ISO 6708

3.2

NPS

see prEN 1759-3:1994

3.3

Class

see prEN 1759-3:1994

4 Designations

4.1 Range of Class designations

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

- Class 150 ;
- Class 300.

4.2 Range of gasket sizes

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

4.3 Gasket design

Gasket design, as defined in clause 5 and illustrated in Figure 1 shall be designated as:

- Design A;
- Design B;
- Design C.

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4.4 Information to be supplied by the purchaser

The following information shall be supplied by the purchaser when ordering gaskets:

- a) the number and Part of this European Standard, i.e. EN 12560-3;
<https://standards.iteh.ai/catalog/standards/sist/82ac6026-b79b-4685-a715-210801009035/en-12560-3-2002>
- b) gasket design (see 4.3);
- c) the nominal size (see Table 1);
- d) Class designation (see Table 1);
- e) thickness (see NOTE to clause 7);

Additional information that should be supplied by the purchaser:

- f) expected operating conditions for which the gasket will be used.

NOTE Before ordering a gasket it is recommended that the selection of the gasket design should be made in consultation with the gasket supplier. The selection of gasket design and thickness should take account of 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.

EXAMPLE A gasket according to EN 12560-3, design C, of nominal size DN 100, Class 150, 2 mm thickness, shall be designated as follows:

Gasket EN 12560 — 3 — C — DN 100 — Class 150 — 2 mm.

5 Gasket designs

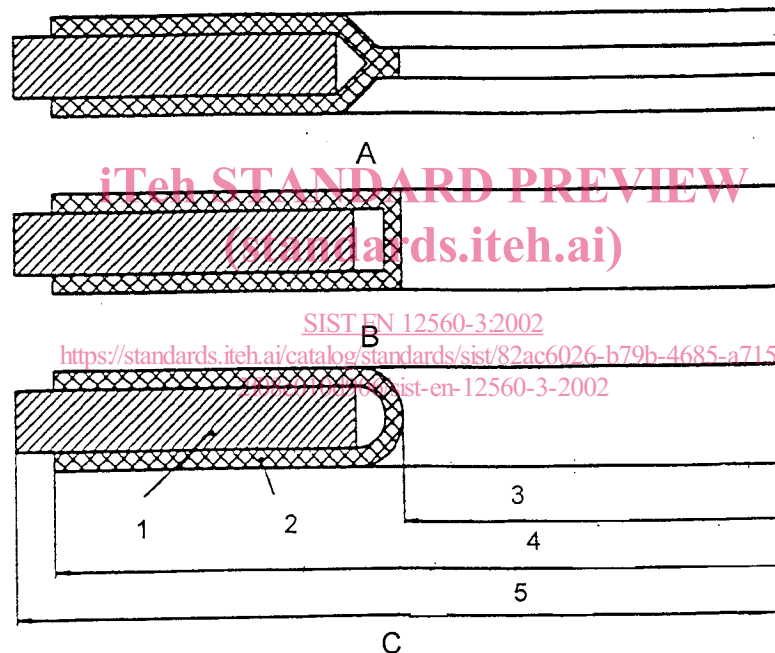
Gaskets for which dimensions are specified shall be one of the designs shown in Figure 1.

NOTE 1 Gasket inserts are usually manufactured from compressed fibre sheet jointings, including asbestos. Other materials are also used to suit particular applications.

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 A). Attention is drawn to relevant EC directives.

NOTE 2 Each design is applicable only to certain nominal sizes and Class designations and is dependent upon manufacturing constraints.

NOTE 3 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



Key

- 1 Insert
- 2 Envelope
- 3 Gasket, inside diameter
- 4 Envelop, outside diameter
- 5 Gasket, outside diameter

Figure 1 - Typical designs of non-metallic PTFE envelope gaskets