SLOVENSKI STANDARD
SIST EN 12560-4:2002

01-maj-2002

Prirobnice in prirobnični spoji - Tesnila za prirobnice z oznako Class - 4. del: Valovita, ravna ali rebrasta kovinska tesnila za jeklene prirobnice

Flanges and their joints - Gaskets for Class-designated flantes - Part 4: Corrugated, flat or grooved metallic and filled metallic gaskets for use with steel flanges

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

Brides et leurs assemblages - Joints pour les brides désignées Class - Partie 4: Joints métalliques ondulés, plat ou striés et joints métalloplastiques pour utilisation avec des brides en acier

Ta slovenski standard je istoveten z: **EN 12560-4:2001**

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

SIST EN 12560-4:2002 **en**

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 12560-4

January 2001

ICS 23.040.80

English version

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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.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents

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".

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.

1 Scope

This European Standard specifies the dimensions and marking of IBC (inside bolt circle) type corrugated, flat or grooved metallic and filled metallic gaskets for use in conjunction with flanges complying with prEN 1759-1:2000 for Class 150, 300, 600, 900 and 1500 for nominal sizes DN 15 to DN 600, and for Class 2 500 for nominal size DN 15 to DN 300.

NOTE Dimensions of other types of gaskets for use with flanges complying with prEN 1759-1:2000, prEN 1759-3:1994 and prEN 1759-4:1997 are given in prEN 12560-1:2000, prEN 12560-2:2000, prEN 12560-3:2000, 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

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 or suitable for use with one or more of the following Class designations of flange:

— Class 150;

— Class 300;

— Class 600;

— Class 900;

— Class 1 500;

— Class 2 500.

4.2 Range of gasket sizes

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

4.3 Gasket types and designs

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

Self-centering:	With centering ring:
- SC/A	- CR/A
- SC/B	- CR/B
- SC/C	- CR/C
- SC/D	- CR/D
- SC/E	- CR/E

4.4 Information to be supplied by the purchaser

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

a) the number and Part of this European Standard, i.e. EN 12560-4;

b) gasket type (see clause 6);

c) gasket design (see clause 5);

d) nominal size (see Table 1);

e) Class designation (see Table 1);

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 and type should be made in consultation with the gasket supplier. The selection of gasket design and type should take account of the operating conditions, the properties of the gasket material(s), type and surface finish of the flange facing and the flange bolt loading.

EXAMPLE A gasket according to EN 12560-4, with centering ring (type S6) and corrugated metal design (design B) of nominal size DN 100, Class 150, shall be designated as follows :

Gasket EN 12560-4 — SC/B — DN 100 — Class 150.

5 Gasket designs

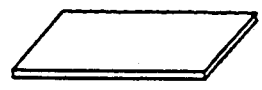
Gaskets shall be one of the designs shown in Figure 1.

c) Flat metal jacketed with filler
(Design ---/C)

a) Corrugated metal, with filler (top)
corrugated metal jacket with filler (bottom)
(Design ---/A)

d) Grooved metal
(Design ---/D)

b) Corrugated metal
(Design---/B)



e) Solid flat metal
(Design ---/E)

Figure 1 - Designs of corrugated, flat or grooved metallic and filled metallic gaskets