



BS 4865 : Part 1 : 1989

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British Standard
**Dimensions of gaskets
for flanges to BS 4504**

**Part 1. Specification for non-metallic flat gaskets
(including gaskets for flanges to BS 4772)**

Dimensions des joints d'étanchéité pour brides conformes à la BS 4504
Partie 1. Joints plats non métalliques (y compris les joints pour brides conformes à la BS 4772) —
Spécifications

Maße für Dichtungen für Flansche nach BS 4504
Teil 1. Flachdichtungen aus nichtmetallischem Werkstoff (einschließlich Dichtungen für Flansche nach
BS 4772)

British Standards Institution

BS 4865 : Part 1 : 1989

Foreword

This Part of BS 4865 has been prepared under the direction of the Piping Systems Components Standards Policy Committee and constitutes the first revision of BS 4865 : Part 1 : 1972 which is withdrawn.

BS 4865 is published in four Parts:

- Part 1 Specification for non-metallic flat gaskets (including gaskets for flanges to BS 4772)
- Part 2 Specification for spiral wound gaskets for use with steel flanges
- Part 3 Specification for non-metallic envelope gaskets
- Part 4 Specification for corrugated, flat or grooved metallic and filled metallic gaskets for use with steel flanges

The revision of BS 4865 in all four Parts takes into account related international work being carried out by Subcommittee 10, Metallic flanges and their joints, of Technical Committee 5, Ferrous metal pipes and metallic fittings, of the International Organization for Standardization (ISO). On this basis the terminology and definitions in this standard are in accordance with those given in ISO standards.

The essential differences between this Part of BS 4865 and BS 4865 : Part 1 : 1972 are as follows.

- (a) Gaskets for use at 64 bar* have been omitted because this pressure range is no longer included for flanges in BS 4504 : Sections 3.1, 3.2 and 3.3.
- (b) Gaskets for use with tongue and groove flanges and spigot and recess flanges have been included for the first time because these types of flanges are now included in BS 4504 : Section 3.1.
- (c) A greater range of gasket thicknesses is given.
- (d) Tables of dimensions have been presented in a new format for ease of cross reference to tables of flange dimensions given in BS 4504 : Sections 3.1, 3.2 and 3.3

and the ranges of sizes of gaskets have been changed as necessary to correspond with the same range of sizes given in BS 4504 : Sections 3.1, 3.2 and 3.3.

Dimensions for the internal diameter of gaskets are a compromise between all requirements of BS 4504 : Sections 3.1, 3.2 and 3.3 so that a single value is given for each gasket size; the gaskets are also suitable for use, where appropriate, with flanged pipes and fittings complying with BS 4622 and BS 4772. Some gaskets to suit flanges for BS 4772 ductile iron pipes and fittings have inside diameters different to those gaskets to suit flanges complying with BS 4504 (see clause 7).

Gaskets comprising compressed fibre made to this part of BS 4865 may contain asbestos. The manufacture of all asbestos based products is covered by the requirements of the Control of Asbestos at Work Regulations 1987, introduced on 1 March 1988. These set out comprehensive provisions covering work activities involving exposure to asbestos. Advice on how to comply with these regulations can be obtained from the manufacturers of the material, from the Asbestos Information Centre, St. Andrew's House, 22-28 High Street, Epsom, Surrey KT19 8AH, from the local area office of the Health and Safety Executive or from the Environmental Health Department of the Local Authority.

Particular note has to be taken of the Asbestos Products (Safety) Regulations 1985, made under the Consumer Safety Act 1978 and of the Asbestos (Prohibitions) Regulations 1985† made under the Health and Safety at Work etc. Act 1974, which prohibit the supply of products containing amosite or crocidolite and set out requirements for the labelling of all products containing asbestos.

All the above legislation implements European Directives.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

*1 bar = 10^5 N/m² = 100 kPa.

†Parallel regulations for Northern Ireland came into force on 6 March 1986.