ProPack
DICHTUNGEN UND PACKUNGEN AG

Worldwide your competent partner for **Sealing Technology**



MANHOLE SEAL D 4.4 (oval)

Pressure-resistant and dimensionally stable gasket made of expanded graphite

Characteristics

- This new gasket material consists of a temperature-, corrosion-, and chemical-resistant expanded graphite matrix.
- No aging
- Good adaptability to flange irregularities
- Excellent suitability for changing temperatures
- No hardening

Operating range

p_{max} [bar]	40*
t °C	+550**

* Max. pressure depending on installation situation
**in inert atmosphere (material value) in steam boiler applications up to 250 °C

Main application

- Steam boiler
- Vessels in round and oval shapes

Suitable for

- Seal for steam boilers and containers
- Storable

Approvals

- Surface pressure: min. 10 N/mm², max. 35 N/mm²
- Recommended heating gradient: max. 2 °C/min
- Observe installation instructions during assembly!

Form of delivery

For standard dimensions, see the measurement table on the back.

Special shapes and other seal thicknesses are available upon request.



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All technical information and advice is based on our experience and will be given most conscientiously but without any liability.
Indication and figures are for guidance only and need to be examined by the user. All sizes are subject to manufacturing tolerances. We reserve the right to modify specifications at any time.
Please note that the technical values cannot be used all at the same time in their maximum values.

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TECHNOLOGY MADE IN GERMANY



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Installation

Check before installation:

- Clearance all over: Air gap between closure and ring must not exceed 2 mm at centric installation.
- Plane parallelism: Variation of sealing faces to each other max. 1 mm.
- Sealing faces: Remove rust, dirt, remainders of seals; work in circumferential direction when grinding, scraping, etc. Take care that sealing faces are dry when making the cold water pressure test.
- Seal: D 4.2 is suitable for steam pressure plants for 225 °C / 25 bar and boiler water to TRD 611. Observe date of usability of max. 2 years; check condition of the seal.

Installation:

- Do not use any separating agents for installation: D 4.2 has a standard antistick coating.
- For easier installation seal can be fixed punctually on the closure with commercial contact adhesive.
- For installation observe centric fit of closure and seal, tighten nuts firmly and uniformly, do not use wrench extension. Tightening torques according to information from the boiler manufacturers. Hereafter some standard values:.

Standard values		
M 16 . . . 80 Nm	M 22 . . . 220 Nm	M 30 . . . 600 Nm
M 20 . . . 160 Nm	M 24 . . . 270 Nm	

- Before installation threads of closure bolts and nuts as well as packing washers of closing system have to be greased.

Operating condition

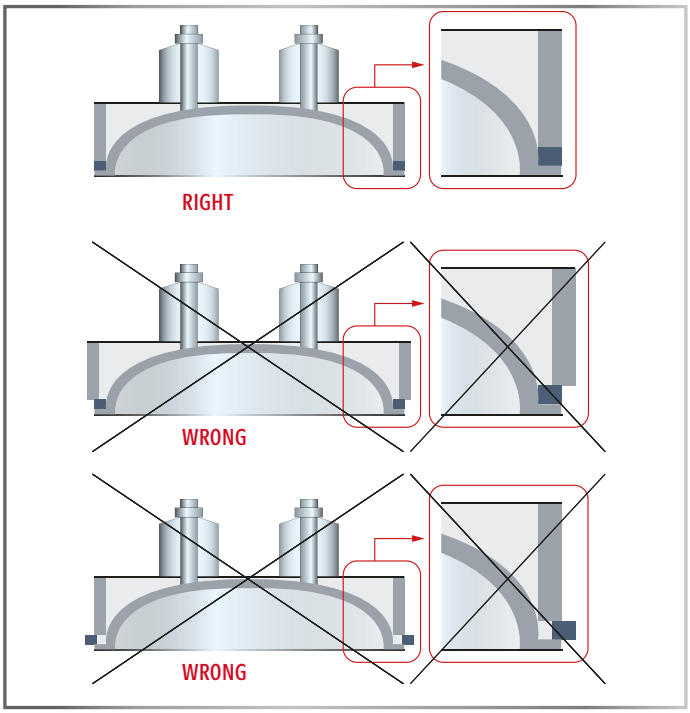
- When the pressure begins to increase - both in cold and in hot condition - the nuts should constantly be retightened in order to maintain the surface pressure. When starting up the boiler and/or at the cold water pressure test there may be slight formation of drops. At increasing temperature (above 100 °C) perfect tightness is reached.
- When the operating condition is reached, the nuts should be controlled again within the next 3 - 4 days and retightened, if necessary.

General

- After every opening of closure a new seal must be installed.
- Store spare seals cool (15 - 25 °C) and dry (standard climatic conditions).
- Do not expose seal to direct sunlight.

Starting-up instructions:

- When starting up the boiler take care of good ventilation; it is recommended to close the highest point cover only at a water temperature of abt. 60 °C.
- Heat up boiler with low load to operating condition (temperature increase abt. 2 °C/min.).
- After that full continuous service..



Form of delivery

Standard dimensions (mm)					
81 x 111 x 14 x 6	101 x 151 x 14 x 6	116 x 166 x 14 x 6	151 x 201 x 14 x 6	282 x 382 x 23 x 6	312 x 412 x 23 x 6
81 x 121 x 14 x 6	121 x 151 x 14 x 6	202 x 302 x 23 x 6	297 x 397 x 23 x 6	322 x 422 x 23 x 6	352 x 452 x 23 x 6
91 x 121 x 14 x 6	111 x 151 x 14 x 6	121 x 161 x 14 x 6	222 x 322 x 23 x 6	302 x 402 x 23 x 6	

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