

RELY ON EXCELLENCE

Statotherm V Cover seal V901/...

Packings & Gaskets | Graphite seals & tapes



Features

Statotherm V cover seals V901 (self-sealing) are precision-made seals made from permanently elastic, expanded graphite (purity $\geq 99\%$) without binders or fillers. Cover seals are successfully used as self-sealing closures in high pressure valves, e.g. for power stations at high temperatures and up to 1,000 mm diameter.

Notes

Design and ordering information

The design of the cover seal depends on the pressure and dimensions. Please specify the operating conditions and profile shape with any enquiries or orders (example: pressure in bar, diameter d1 and d2, profile shape I, A or R).

Advantages

- Easy to assemble and disassemble
- No damage to the sealing surfaces
- Long service life
- Do not harden
- Optimized sealing result
- Minimum wear of the contact surface

Operating range

Pressure: $p = 500$ bar

Sliding velocity: $v_g = 2$ m/s

Temperature

- Continuous operation:
 $t = -200$ °C ... $+500$ °C
- Steam: $t_{max} + 550$ °

Recommended surface roughness:

$RZ = 10 - 40$ μm

Chemical resistance: $\text{pH} = 0 \dots 14$

Resistant to almost all organic and inorganic acids, alkalis, oils and solvents.

Density (raw material): 0.7 or 1.0 g/cm³

V901/B5: density 1.3 g/cm³

V901/B6: density 1.4 g/cm³

V901/B7: density 1.6 g/cm³

V901/B8: density 1.8 g/cm³

Recommended applications

Industries

- Process industry
- Petrochemical industry
- Chemical industry
- Power plant technology
- Building services industry

- Valves