

RELY ON EXCELLENCE

KN Rubber-Steel gasket 9107/KN

Packings & Gaskets | Metallic gaskets



Features

The KN rubber-steel gasket 9107/KN consists of a metal support ring and a specially molded, replaceable elastomer ring which is located in the force shunt after fitting. The support ring also acts as a centering ring and force limiter. It thus both absorbs the bolt forces needed for high pressures and protects the rubber seal against overcompression.

Notes

With coated flanges, we recommend selecting the outer diameter of the coating so that the sealing lip on the atmospheric side lies in the steel part. If necessary, discuss the dimensions with your EagleBurgmann contact.

Advantages

- Uniform distribution of the surface pressure

Operating range

Pressure: $p = 64 \text{ bar}$

Temperature

- Continuous operation:
 $t = -30 \text{ °C} \dots +120 \text{ °C}$
- a few hours:
 $t = -30 \text{ °C} \dots +150 \text{ °C}$
- a few minutes:
 $t = -30 \text{ °C} \dots +200 \text{ °C}$

Recommended surface roughness:

$RZ \leq 100 \text{ } \mu\text{m}$

Load values (q) elastomer seal

The surface pressure acting in the flange block position is:

- at room temperature:
 $q_{\text{max.}} = \text{approx. } 10 \text{ MPa}$
- at 100 °C :
 $q_{\text{max.}} = \text{approx. } 6 \text{ MPa}$

Materials

- Sealing ring: EPDM
- Support ring: St 37 galvanized, chromated or stainless steel

Recommended applications

Industries

- Power plant technology
- Water and waste water technology
- Building services engineering
- Flange connections
- Pipe connections