EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

Flexgen expansion joints

Expansion Joints | Fabric expansion joints

Features

- Multi layer design (Flexgen 2002: single layer construction)
- Compensates for movements in several directions simultaneously
- Can be delivered as fabric only or as preassembled unit
- For dry condition
- Custom made to fit actual working conditions

Functional description

Flexgen expansion joints safely absorb thermal expansion and misalignments of pipe and duct systems in dry and medium temperature area. Flexgen products compensate for movements in multiple directions simultaneously.

Advantages

- Excellent flexibility
- High chemical resistance
- Reduced heat loss
- Minimal reaction forces

Operating range

Temperature: -35 °C ... +575 °C (-31 °F ... +1,070 °F)
Pressure: -0.14 bar ... 0.14 bar (-2 PSI ... 2 PSI)
Maximal axial movements: ... 200 mm (8")
Maximal lateral movements: ... 80 mm (3")

Standards and approvals

Documentation:
- EN 10204-2.2 certificate
- Safety Data Sheets (SDS) for individual materials

Recommended applications

- Process industry
- Oil and gas industry
- Refining technology
- Power plant technology
- Pulp and paper industry
- Metal production and processing
- Cement industry

- Flue gas duct systems

- Boiler inlets and boiler outlets
- Penetration seals
- Process lines
- Stack connections

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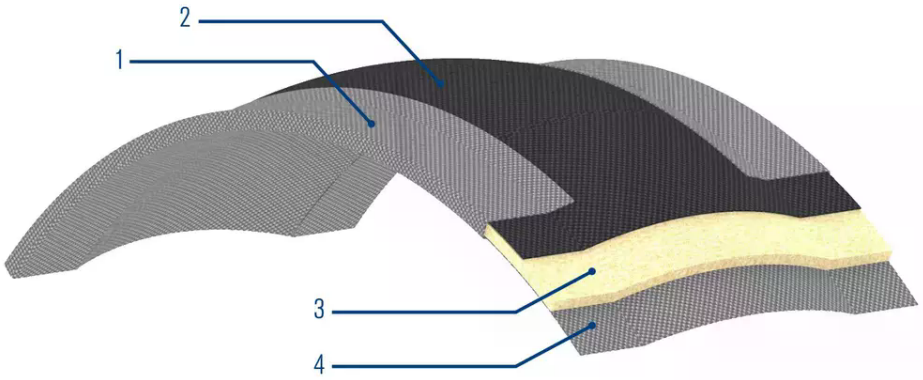
All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case. Subject to change.



Item	Description
1	Flange reinforcement
2	Pressure carrying layer / gas seal layer
3	Insulation layer
4	Support layer

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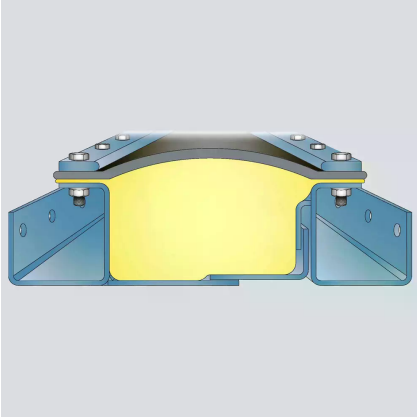
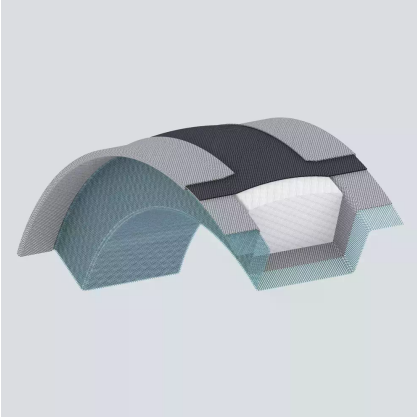
Installation, details, options



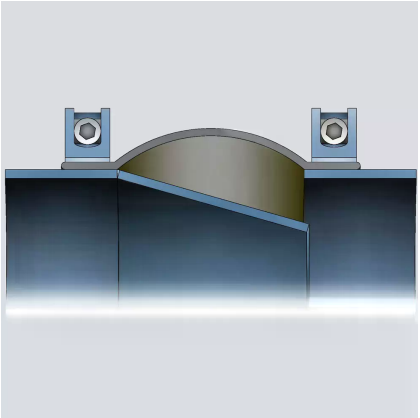
P-Flanges Floating ring

Temperature: ... 550 °C (1,022 °F)
Media with high dust content.



All expansion joints can be combined with a bolster/ internal insulation to enhance the design in respect to:

-Dust accumulation
-Heat loss
-Surface temperature/low risk
-Flutter/pressure fluctuations
-Noise reduction
-Extended life



P-Flanges with single sleeve and clamping bands

Temperature: ... 450 °C (842 °F)
Media with low dust content.

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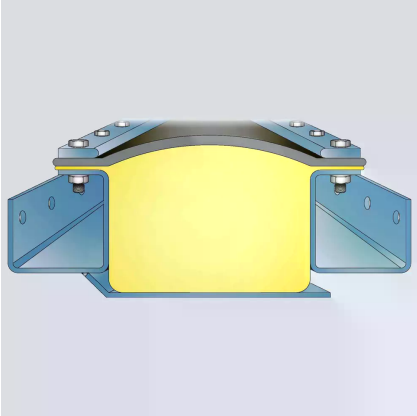
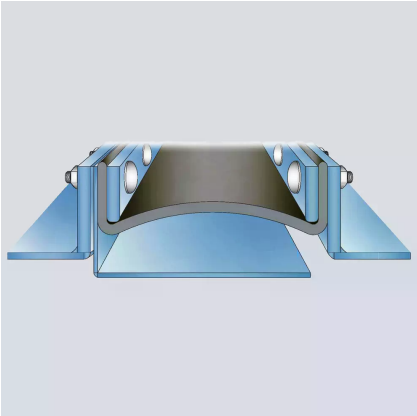


P-Flanges with inner sleeve

Temperature: ... 550 °C (1,022 °F)
Media wih medium dust content.



V-Flanges single sleeve

Temperature: ... 450 °C (842 °F)
Media with low dust content.

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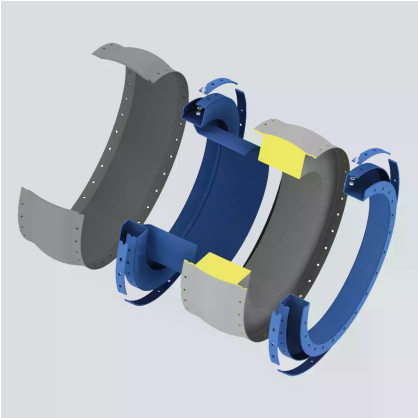
Product variants

Type	Agressivemedia	Non-aggressivemedia	Max. temperatureP-Flange	Max. temperatureV-Flange	Max. temperaturePFH-100	Min. temperature	Max. pressure	Min. pressure	Axialflexibility	L
2002	Dry	Dry	300 °C(572 °F)	300 °C(572 °F)	400 °C(752°F)	-35 °C(-31 °F)	0.14 bar(2.03 PSI)	-0.14 bar(-2.03 PSI)	50 %	2
2003	Dry	Dry	300 °C(572 °F)	300 °C(572 °F)	450 °C(842 °F)	-35 °C(-31 °F)	0.14 bar(2.03 PSI)	-0.14 bar(-2.03 PSI)	40 %	2
2004	Dry	Dry	500 °C(932 °F)	425 °C(797°F)	500 °C(932°F)	-35 °C(-31 °F)	0.14 bar(2.03 PSI)	-0.14 bar(-2.03 PSI)	40 %	2
2005	Dry	Dry	575 °C(1067 °F)	450 °C(842 °F)	575 °C(1067 °F)	-35 °C(-31 °F)	0.14 bar(2.03 PSI)	-0.14 bar(-2.03 PSI)	40 %	2



Pre-assembled units

Pre-assembled expansion joint units consist of:

- Fabric expansion joint
- Metal frames/inner sleeves
- Gasket (optional)
- Fasteners

Frame material:
- Carbon steel
- Stainless steel
- Heat resistant steel

Pre-assembled expansion joint units can be supplied with surface treatment that is corrosion resistant (standard) and resistant to high temperatures. EagleBurgmann KE offers any RAL color code for the units. Units can be delivered with seaworthy packing or standard packing for road transportation.

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eFlexgen

The main features of our new eFlexgen are lower emissions as well as increased robustness and performance. The multi-layer design that can withstand temperatures up to 575° C, have the ability to compensate for movements in all directions, and suitability for dry conditions. It can be delivered either as fabric only or as a preassembled unit. Additionally, it can be custom-made to fit the specific working conditions you have.

- Up to 90% lower emissions
- Improved safety
- Longer lifetime
- Saves energy in specific applications due to increased tightness
- Verified by Bureau Veritas

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