EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

Fluaflex expansion joints

Expansion Joints | Fabric expansion joints

Features

- Multi layer design
- 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

Fluaflex expansion joints safely absorb thermal expansion and misalignments in pipe and duct systems in dry and medium temperature areas. Fluaflex 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 ... +1,067 °F)
Pressure:
-0.2 bar ... 0.2 bar (-2.9 PSI ... 2.9 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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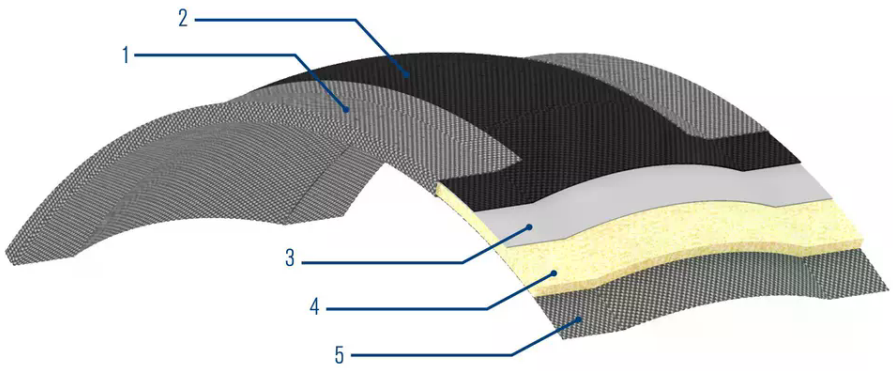
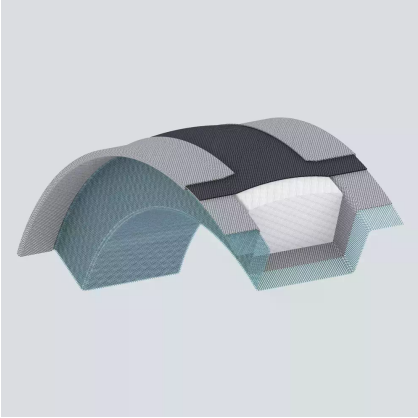


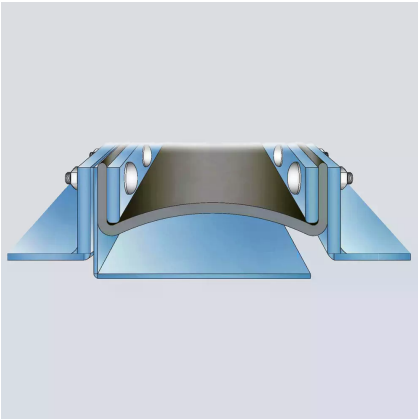
Item	Description
1	Flange reinforcement
2	Pressure carrying layer
3	Gas seal layer
4	Insulation layer
5	Support layer

Installation, details, options

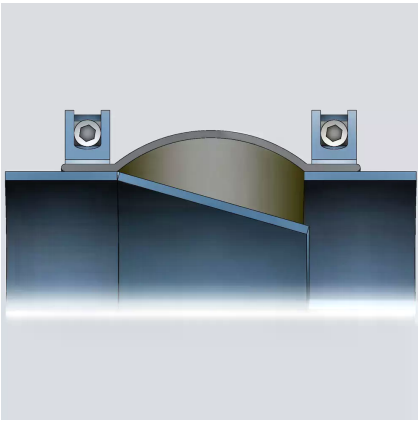


All expansion joints can be combined with a bolster/ internal insulation to enhance the design in respect to:

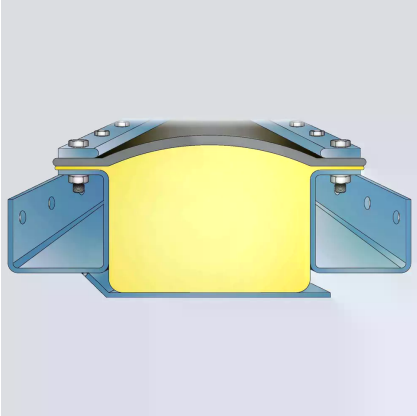
-Dust accumulation
-Heat loss
-Surface temperature/low risk
-Flutter/pressure fluctuations
-Noise reduction
-Extended life



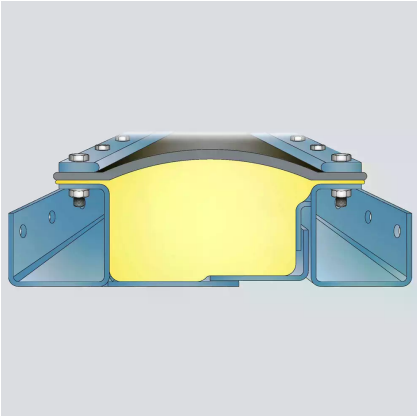
Temperature: ... 450 °C (842 °F)
Media with low dust content.



Temperature: ... 350 °C (662 °F)
Media with low dust content.



Temperature: ... 575 °C (1,067 °F)
Media wih medium dust content.

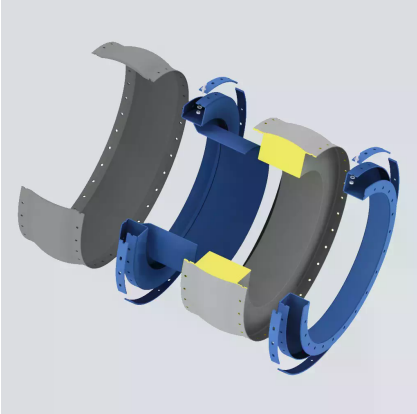


Temperature: ... 575 °C (1,067 °F)
Media with high dust content.

Product variants

Fluaflex product properties

Type	Agressivemedia	Non-aggressivemedia	Max. temperatureP-Flange	Max. temperatureV-Flange	Max. temperaturePFH-100	Min. temperature	Max. pressure	Min. pressure	Axialflexibility	L
25-U	N/A	Dry	250 °C(482 °F)	250 °C(482 °F)	400 °C(752°F)	-35 °C(-31 °F)	0.2 bar(2.9 PSI)	-0.2 bar(-2.9 PSI)	50 %	2
25-X	Dry	Dry	250 °C(482 °F)	250 °C(482 °F)	400 °C(752 °F)	-35 °C(-31 °F)	0.2 bar(2.9 PSI)	-0.2 bar(-2.9 PSI)	50 %	2
25-X-T	Wet	Wet	250 °C(482 °F)	250 °C(482 °F)	350 °C(662 °F)	-35 °C(-31 °F)	0.2 bar(2.9 PSI)	-0.05 bar(-0.72 PSI)	50 %	2
30-X	Dry	Dry	300 °C(572 °F)	300 °C(572°F)	425 °C(797°F)	-35 °C(-31 °F)	0.2 bar(2.9 PSI)	-0.2 bar(-2.9 PSI)	50 %	2
40-X	Dry	Dry	400 °C(752 °F)	400 °C(752 °F)	500 °C(932 °F)	-35 °C(-31 °F)	0.2 bar(2.9 PSI)	-0.2 bar(-2.9 PSI)	40 %	2
55-X	Dry	Dry	550 °C(1022 °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.