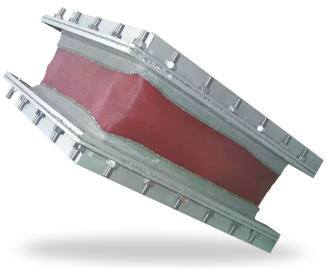
EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

Fluachem expansion joints

Expansion Joints | Fabric expansion joints



Features

- Single layer design
- Compensates for movements in several directions simultaneously
- Can be delivered as fabric only or as preassembled drop in unit
- For dry and wet condition
- Custom made to fit actual working conditions

Functional description

Fluachem expansion joints safely absorb thermal expansion, vibrations and misalignments in pipe and duct systems in chemical aggressive areas. Fluachem products compensate for movements in multiple directions simultaneously.

Advantages

- Highly flexible
- Excellent chemical resistance
- Minimal reaction forces
- Excellent abrasion resistance (Depending on material selection)
- 100% gas tightness

Operating range

Temperature: -35 °C ... +425 °C (-31 °F ... +797 °F)
Pressure: -0.35 bar ... 0.35 bar (-5 PSI ... 5 PSI)
Maximal axial movements: ... 200 mm (8")
Maximal lateral movements: ... 40 mm (1 1/2")

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
- Petrochemical industry
- Chemical industry
- Pharmaceutical industry
- Power plant technology
- Sugar industry
- Metal production and processing

- FGD

- Flue gas duct systems
- Conventional boilers
- Condensers
- Filtration / precipitators
- Scrubbers / absorbers
- Chemical process lines
- Stack connections

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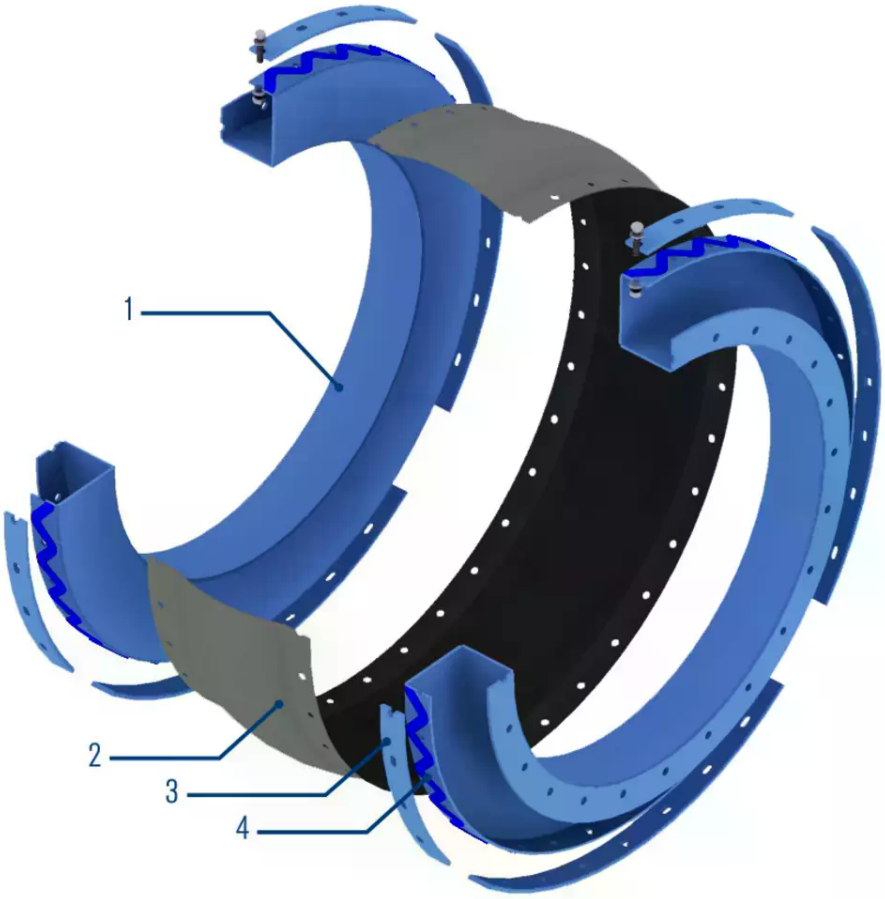
All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case.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



Item	Description
1	Frames
2	Expansion joint
3	Clamp bar
4	Gasket

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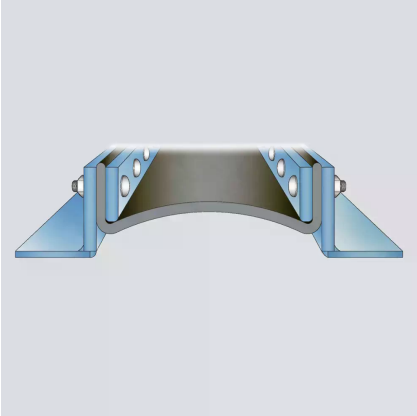
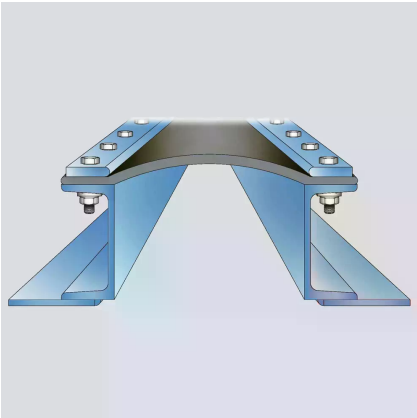
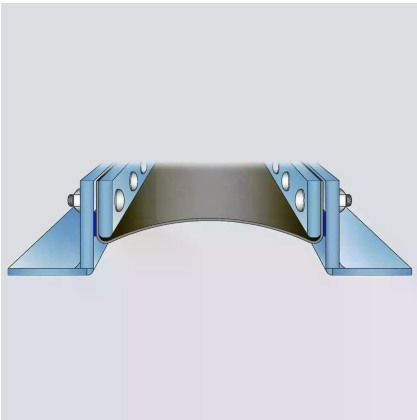
Installation, details, options



Temperature: ... 200 °C (392 °F)
Medium to high flow velocity.
Media with medium dust content.



Temperature: ... 200 °C (392 °F)
Medium to high flow velocity.
Media with low to medium dust content.



Temperature: ... 300 °C (572 °F)
Medium to high flow velocity.
Media with low to medium dust content.

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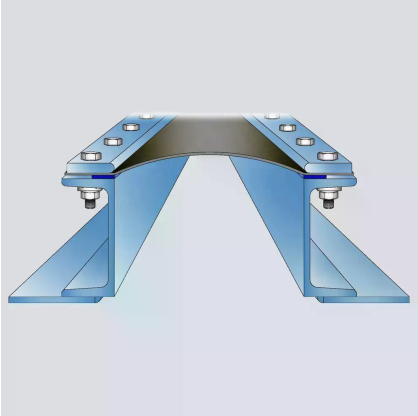

Temperature: ... 300 °C (572 °F)
Medium to high flow velocity.
Media with low dust content.

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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
Butyl 600GS	Wet	Wet	80 °C(176 °F)	80 °C(176 °F)	180 °C(356 °F)	-35 °C(-31 °F)	0.35 bar(5 PSI)	-0.35 bar(-5 PSI)	25 %
EPDM 400G	Wet	Wet	120 °C(248 °F)	120 °C(248 °F)	220 °C(428 °F)	-35 °C(-31 °F)	0.35 bar(5 PSI)	-0.35 bar(-5 PSI)	35 %
EPDM 600GG	Wet	Wet	120 °C(248 °F)	120 °C(248 °F)	220 °C(428 °F)	-35 °C(-31 °F)	0.35 bar(5 PSI)	-0.35 bar(-5 PSI)	25 %
EPDM 600S	Wet	Wet	120 °C(248 °F)	120 °C(248 °F)	220 °C(428 °F)	-35 °C(-31 °F)	0.35 bar(5 PSI)	-0.35 bar(-5 PSI)	25 %
FKM 320G	Wet	Wet	200 °C(392 °F)	200 °C(392 °F)	300 °C(572 °F)	-25 °C(-13 °F)	0.2 bar(2.9 PSI)	-0.2 bar(-2.9 PSI)	35 %
FKM 350S	Wet	Wet	200 °C(392 °F)	200 °C(392 °F)	300 °C(572 °F)	-25 °C(-13 °F)	0.35 bar(5 PSI)	-0.35 bar(-5 PSI)	25 %
FKM 450GS	Wet	Wet	200 °C(392 °F)	200 °C(392 °F)	300 °C(572 °F)	-25 °C(-13 °F)	0.35 bar(5 PSI)	-0.35 bar(-5 PSI)	30 %
FKM 600GG	Wet	Wet	200 °C(392 °F)	200 °C(392 °F)	300 °C(572 °F)	-25 °C(-13 °F)	0.35 bar(5 PSI)	-0.35 bar(-5 PSI)	25 %
FKM 600GS	Wet	Wet	200 °C(392 °F)	200 °C(392 °F)	300 °C(572 °F)	-25 °C(-13 °F)	0.35 bar(5 PSI)	-0.35 bar(-5 PSI)	25 %
C	Wet	Wet	270 °C(518 °F)	270 °C(518 °F)	400 °C(752 °F)	-35 °C(-31 °F)	0.2 bar(2.9 PSI)	-0.2 bar(-2.9 PSI)	50 %
O	Wet	Wet	270 °C(518 °F)	270 °C(518 °F)	400 °C(752 °F)	-35 °C(-31 °F)	0.2 bar(2.9 PSI)	-0.2 bar(-2.9 PSI)	50 %
HD	Wet	Wet	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 %

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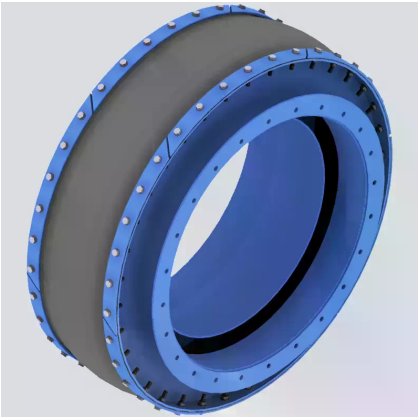

Pre-assembled units

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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