GB210

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Belt expansion joint on duct angles with one or more arches

Design: Cylindrical, single or multi-arch elastomer or multilayer expansion joint with sleeve for clamp bar fixing
Optional expansion joint with installation seam
Optional external pressure support rings in the arch trough
Optional vacuum support rings

Installation method: Clamp bar fixing on duct angles

Dimensions: For round and rectangular duct cross sections

Installation length: = Installation gap + 2x fixing width
Individually according to customer specifications

Fixing width: Depends on pressure and diameter between 60 and 100 mm

Media temperature: Depending on the height of the duct angle, suitable for up to 500 °C

Pressure: Up to ±0.25 bar
Higher pressures on request

Movement: For axial, lateral and angular movements
Benchmarks:
axial compression = approx. 0.25 x installation gap
axial extension = approx. 0.25 x installation gap
lateral displacement = approx. 0.20 x installation gap
In the event of axial extension and simultaneous lateral displacement, movements are reduced
For large lateral movements, we recommend presetting the duct against the direction of movement

Application:
Power plants, waste incineration plants, gas turbines, cement factories, paper industry, steel industry e. g. in exhaust pipes, in ventilators, in air ducts, in ash lines, in filter systems

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Expansion joint variants

	Elastomer expansion joint	Multilayer expansion joint
Temperature:	up to 200 °C	up to 500 °C
Design:	Single-layer elastomer expansion joint fully joined with one or more fabric reinforcement inserts	Multilayer fabric expansion joint consisting of interior insulating layers, embedded sealing films and exterior pressure carrier fabrics.
Material:	**Rubber grades:** up to 100 °C: EPDM, IIR, CSM, NBR up to 180 °C: FPM up to 200 °C: Silicon (Q) **PTFE lining:** Permanently embedded on the inside at the rubber bellows in order to withstand corrosive chemical attack, available starting at ∅ 300 mm **Inserts:** Polyamid, polyester, aramide, glass fibre, and steel mesh	**Internal layers:** PTFE glass fibre fabric laminate, glass fibre fabric, glass mat, silicate fabric **Sealing films:** PTFE film, stainless steel film **External layer:** Silicon coated glass fibre fabric PTFE-glass fibre fabric laminate

Clamp bar

Design: Multi-part clamp bar with slotted holes

Materials: Carbon steel, stainless steel

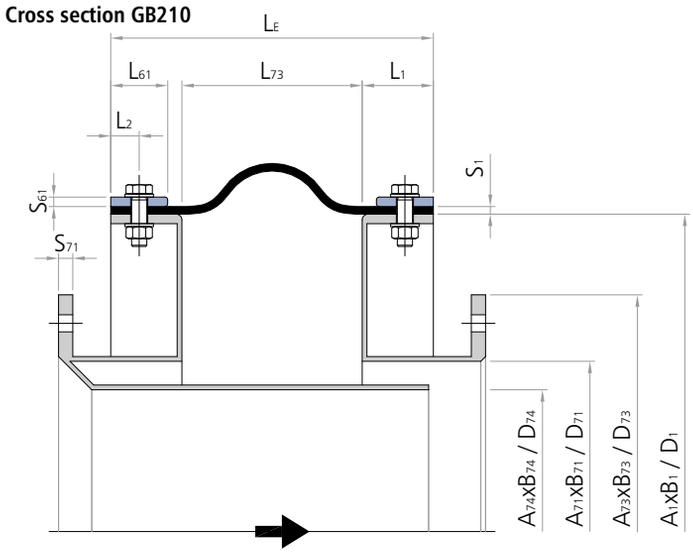
Coating: Primed, hot-dip galvanised, special paint

Optional accessories

Fixing: Screws, nuts, washers, disc springs

Support ring: Vacuum rings inside in the arch apex and/or external support rings in the arch trough

Installation unit: Installation-ready installation unit complete with pre-mounted expansion joint, flow liner and connecting ends for welding or screwing into the duct (> page 361)

Installation set: Tools and aids for punching and closing the expansion joint seam

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