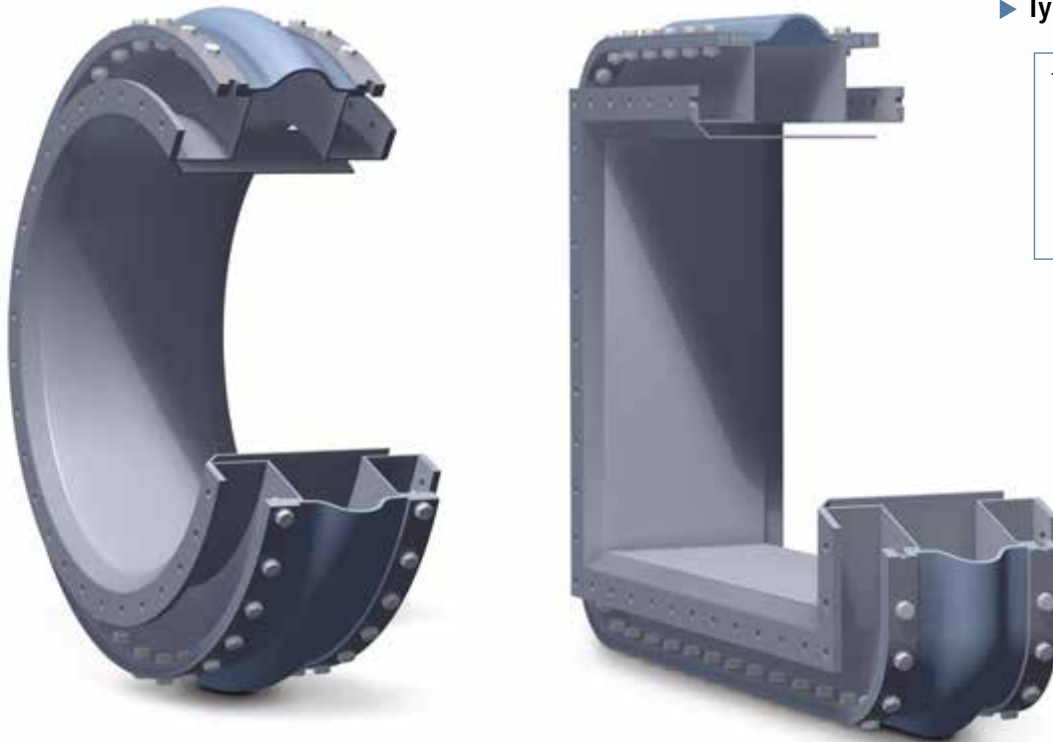
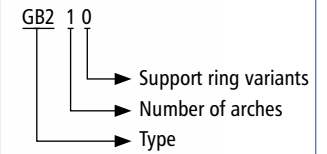


GB210

► Type GB210



Type key ► page 20



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 nominal diameter between 60 and 100 mm
Media temperature:	Depending on the material and the height of the duct elbow, 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



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:	<p>Rubber grades: up to 100 °C: EPDM, IIR, CSM, NBR up to 180 °C: FPM up to 200 °C: Silicon (Q)</p> <p>PTFE lining: Permanently embedded on the inside at the rubber bellows in order to withstand corrosive chemical attack, available starting at NB 300</p> <p>Inserts: Nylon, polyester, Kevlar, glass fibre, and steel mesh</p>	<p>Internal layers: PTFE glass fibre fabric laminate, glass fibre fabric, glass mat, silicate fabric</p> <p>Sealing films: PTFE film, stainless steel film</p> <p>External layer: Silicon coated glass fibre fabric PTFE-glass fibre fabric laminate</p>

Clamp bar

Design:	Multi-part clamp bar with slotted holes
Materials:	Carbon steel: 1.0038 (S235JRG2) Stainless steel: 1.4301 (X5CrNi18-10) 1.4571 (X6CrNiMoTi17-12-2) Other materials on request
Coating:	Primed, hot-dip galvanised, special paint

Optional accessories

Fixing:	Screws, nuts, washers, disc springs
Support ring:	Vacuum support rings inside in the arch apex and/or external pressure 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 299)
Installation set:	Tools and aids for punching and closing the expansion joint seam

Planning help GB210

