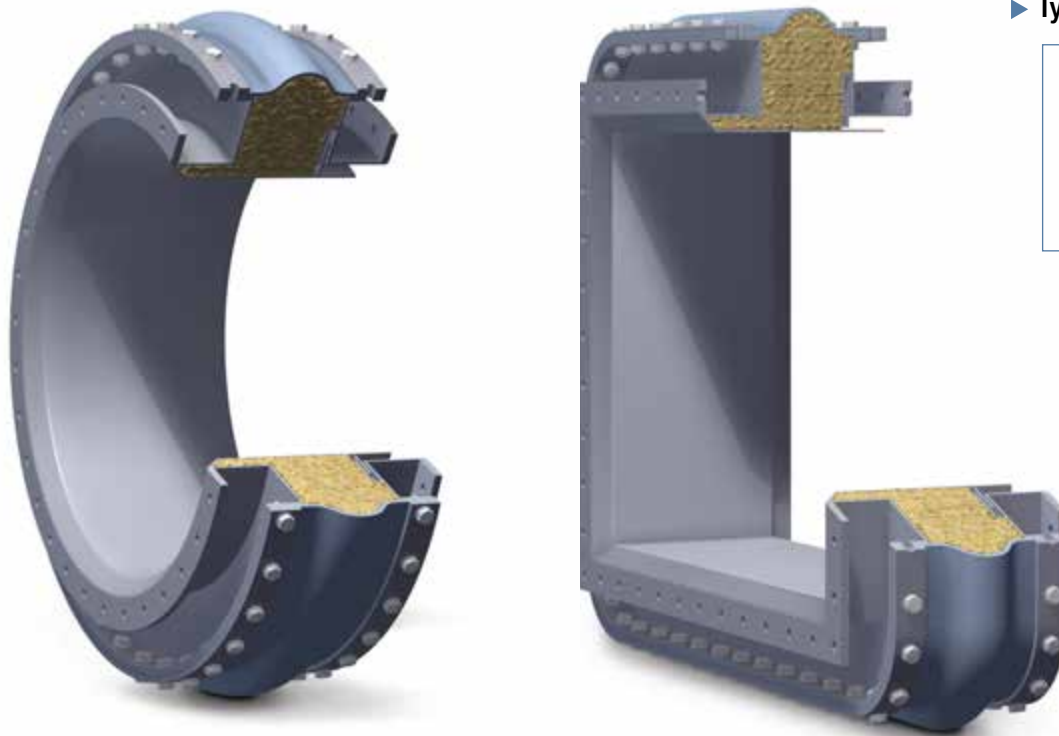
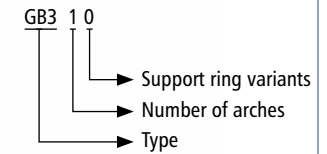


GB310



► Type GB310

Type key ► page 20



Belt expansion joint on duct angles with pre-insulation, 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, height of the duct elbow and duct lining, suitable for up to 1,200°
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 joints

Multilayer expansion joint	
Temperature:	Depending on the duct angle height and lining, up to 1200 °C
Design:	Multilayer fabric expansion joint consisting of interior insulating layers, embedded sealing films and exterior pressure carrier fabrics
Material:	<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>

Pre-insulation

Design: Insulation layers, cut to the installation gap, consisting of heat-resistant wire mesh
 Insulation layers made from glass, ceramic, silicate or mineral wool
 Optional installation-ready, fabric-sheathed insulation pillow
 Duct lining necessary for high medium temperatures

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 rings: 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

