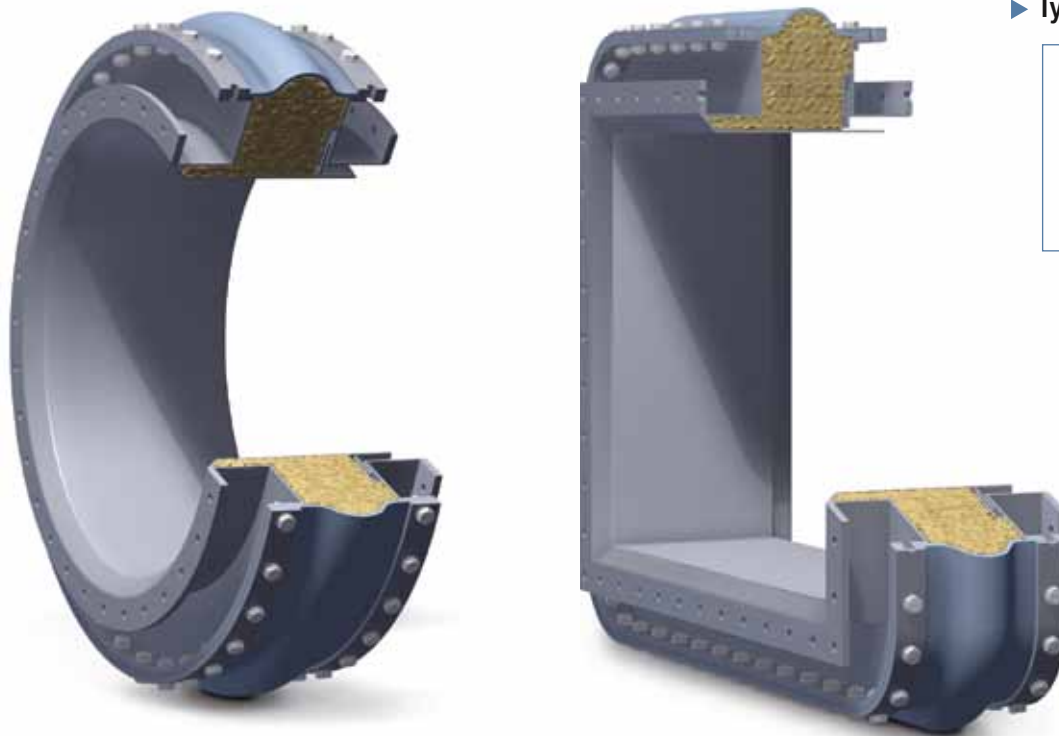
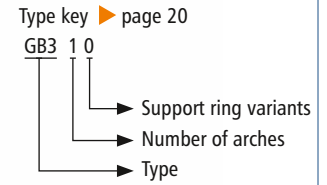


GB310



► Type GB310



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 height of the duct angle and duct lining, suitable for up to 1200 °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 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

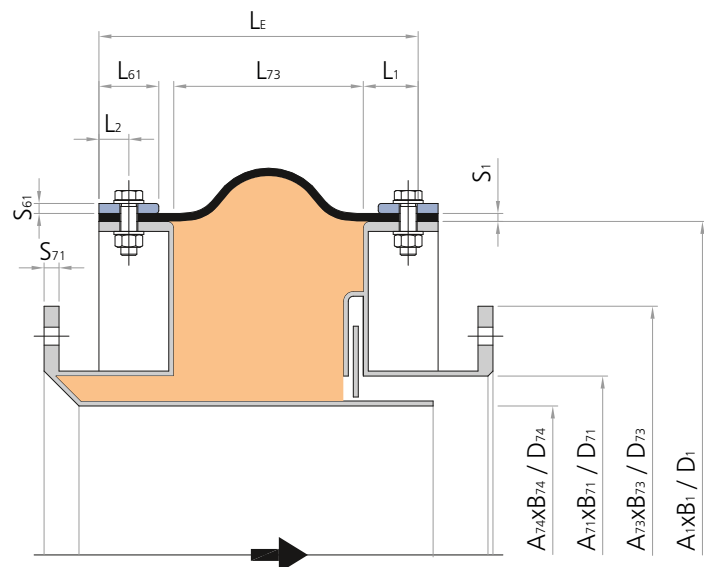
Fixing: Screws, nuts, washers, disc springs

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 297)

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

Planning help GB310





Multilayer expansion joint bellows, type GB300
as a seal between the grate and boiler in a waste incineration plant



Multilayer expansion joint, type GB300
as a pre-fabricated installation unit
for ash discharge in a power plant
NG 5500 x 600, 750 °C



Elastomer expansion joints, type GU110
in the chute between the screw conveyor and sludge container
in a slurry incineration facility
NG 400 x 400, 60°C



Elastomer expansion joints, type GU100
on the scrubbing drums of a waste incineration plant
NB 2400, 80°C