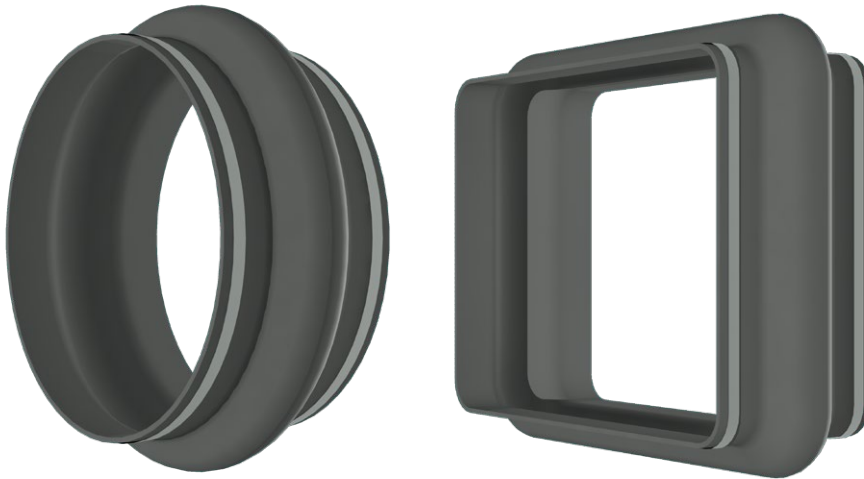
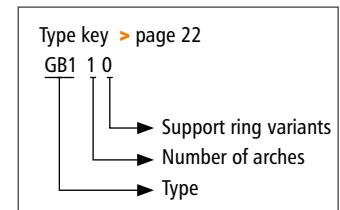


## GB110



### > Type GB110



## Belt expansion joint with one or more arches

**Design:** Cylindrical, single or multi-arch elastomer or multilayer expansion joint with sleeves for clamped fixing, ideally only for round or oval duct cross sections  
 Optional expansion joint with installation seam  
 Optional external pressure support rings in the arch trough  
 Optional vacuum support rings

**Installation method:** Clamped fixing at duct level

**Dimensions:** For round and oval duct cross sections of up to approx.  $\varnothing$  1,500 mm

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

**Fixing width:** Depends on pressure, diameter and clamp design at least 40 mm

**Media temperature:** Suitable for up to 400°C

**Pressure:** Up to  $\pm 0.25$  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  
 In the event of axial extension or vacuum, the expansion joint can be pulled from the pipeline (provide groove at end of pipeline if needed)  
 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



Request assembly instructions at:  
[www.ditec-adam.de/en/contact](http://www.ditec-adam.de/en/contact)

## Expansion joint variants

	Elastomer expansion joint	Multilayer expansion joint
<b>Temperature:</b>	up to 200 °C	up to 400 °C
<b>Design:</b>	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.
<b>Material:</b>	<p><b>Rubber grades:</b>            up to 100 °C: EPDM, IIR, CSM, NBR            up to 180 °C: FPM            up to 200 °C: Silicon (Q)</p> <p><b>PTFE lining:</b>            Permanently embedded on the inside at the rubber bellows in order to withstand corrosive chemical attack, available starting at <math>\varnothing</math> 300 mm</p> <p><b>Inserts:</b>            Polyamid, polyester, aramide, glass fibre, and steel mesh</p>	<p><b>Internal layers:</b>            PTFE glass fibre fabric laminate, glass fibre fabric, glass mat, silicate fabric</p> <p><b>Sealing films:</b>            PTFE film, stainless steel film</p> <p><b>External layer:</b>            Silicon coated glass fibre fabric            PTFE-glass fibre fabric laminate</p>

## Fastening clamps

<b>Design:</b>	Depending on pressure and diameter, endless clamp belt or hinge bolt clamps At higher pressures, 2 parallel clamps per side	
<b>Width:</b>	Endless clamp belt: $\frac{3}{4}$ " Hinge bolt clamp: depending on $\varnothing$ : 18–30 mm	
<b>Materials:</b>	Endless clamp belt with screw lugs (tongs):	1.7300
	Hinge bolt clamp, belt and housing:	1.4016 (Screw steel galvanised)

## Optional accessories

<b>Support rings:</b>	Vacuum support rings inside in the arch apex and/or external pressure support rings in the arch trough
<b>Installation set:</b>	Tools and aids for punching and closing the expansion joint seam

### Cross section GB110

