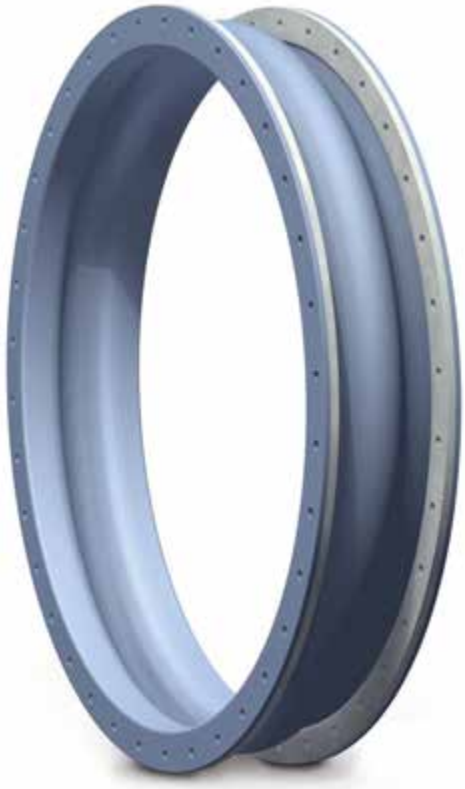
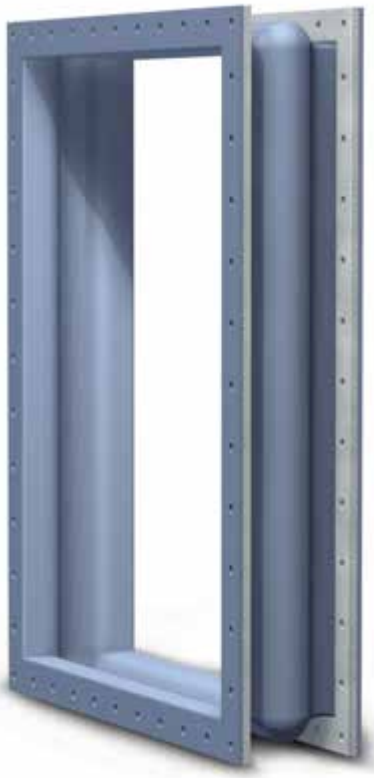
GU110





▶ **Type GU110**

Type key ▶ page 20

GU1 1 0

- Support ring variants
- Number of arches
- Type

Flange expansion joint with one or more arches

Design: Single or multi-arch elastomer or multilayer expansion joint with self-sealing flanges and single or multi-part backing flanges
Optional external pressure support rings in the arch trough
Optional vacuum support rings

Installation method: Fixes to flange at duct level

Dimensions: For round, rectangular and oval duct cross sections

Installation length: According to customer specification

Media temperature: Suitable for up to 400°C (depending on the material)

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 length
axial stretching = approx. 0.25 x installation length
lateral displacement = approx. 0.20 x installation length
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 the exhaust pipes, in ventilators, in air ducts, in the flue gas scrubber, in filter systems

Ω <10⁵ Ohm

EX

Expansion joint variants

	Elastomer expansion joint	Multilayer expansion joint
Temperature:	up to 200 °C	up to 400 °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 NB 300 **Inserts:** Nylon, polyester, Kevlar, 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

Flanges

Design: Single-part or multi-part backing flanges with clearance holes

Flange norms: According to customer specification

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

Flow liners

Design: Cylindrical, conical or telescoping flow liner (▶ page 298)

Materials:
Carbon steel: 1.0038 (S235JRG2), 1.0570 (S355J2G3), 1.0425 (P265GH), 1.5415 (16Mo3), 1.4713 (X10CrAl7)
Stainless steel: 1.4301 (X5CrNi18-10), 1.4571 (X6CrNiMoTi17-12-2), 1.4828 (X15CrNiSi20-12)
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

Planning help GU110