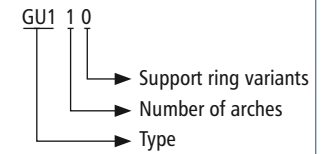


GU110



► Type GU110

Type key ► page 20



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 |
| 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



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: | <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> |

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 296) | | |
| 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 |

