

EX100



Expansion joint for EX protection zones

- Design:** Straight or conical fabric expansion joint made from EPDM rubber with a polyester fabric insert and self-sealing flanges or sleeves for clamped fixing and proof electrical conductivity
Optional single-part backing flanges or fastening clamps
- Conductivity:** Surface resistance $1.4 \times 10^5 \Omega$ electrical discharge capability
- Installation method:** Fixing to flanges or using clamps at duct level
Earthing with min. 10 cm² contact surface required
- Dimensions:** For round, rectangular and oval duct cross sections
- Installation length:** According to customer specification
- Media temperature:** Suitable between -30 to +100 °C
- Pressure:** Up to $\pm 15,000$ Pa
- Movement:** For axial and lateral movements

Application:
Pharmaceutical industry, food processing, petrochemical and refining technology, varnish industry, e.g. on ventilators, in air conditioning and ventilation ducts, in suction units



Flanges

- Design:** Single-part backing flange 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

Fastening clamps

- Design:** Depending on pressure and the nominal diameter, endless clamp belt, screw thread belt, small clamps or hinge bolt clamps. At higher pressures, 2 adjacent clamps per fastening side.
- Width:** Endless clamp belt: $\frac{3}{4}$ "
Screw thread belt: $\frac{1}{2}$ "
Small clamp: depending on \varnothing : 9–12 mm
Hinge bolt clamp: depending on \varnothing : 18–30 mm
- Materials:** Endless clamp belt with screw lugs (tongs): 1.7300
Screw thread belt with threaded screw lugs: 1.4310
Small clamp, belt and housing: 1.4016 (Screw steel galvanised)
Hinge bolt clamp, belt and housing: 1.4016 (Screw steel galvanised)

Flow liners

- Design:** Cylindrical, conical or telescoping flow liner (▶ page 24)
- 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

Planning help EX100

