

BUNDLETEC® HIGH PERFORMANCE ENGINEERING

FanTec™ Fabric Expansion Joint

Engineered multi-layer expansion joint for high-vibration fan intake and discharge duct systems.

TEMPERATURE RANGE
-35°C / +250°C

DESIGN PRESSURE
±5,000 Pa (±50 mbar)

MOVEMENTS
Axial ±50mm

ATTENUATION
18 -

MAX GAS VELOCITY
< 30 m/s

HELIUM LEAK RATE
 $Q \leq 1 \times 10^{-3}$



Certified Factory Assembly & Inspection

1 MULTI-LAYER COMPOSITE MATERIAL ARCHITECTURE

LAYER 1: EXTERIOR WEATHER BARRIER

Heavy silicone-coated E-glass fabric (580 g/m²), UV and weathering resistant

LAYER 3: GAS & VAPOR MEMBRANE

Laminated gas-tight sintered PTFE film, impervious to moisture and mild chemicals

LAYER 2: THERMAL INSULATION CORE

High-density needle-punched E-glass mat (15mm), mechanical vibration absorber

LAYER 4: INNER REINFORCEMENT SCRIM

E-glass woven textile backed with AISI 304 stainless steel knitted wire mesh

2 TECHNICAL SPECIFICATIONS & DESIGN MATRIX

TECHNICAL PARAMETER	ENGINEERING SPECIFICATION & MATERIAL DEFINITION
Operating Temperature	-35°C to +250°C (-31°F to +482°F)
Design Pressure	±5,000 Pa (±50 mbar, vacuum resistant)
Authority Standards	RAL-GZ 719 Groups 1 & 2 / FSA-DSJ / CE
Gas Tightness Rate	$Q \leq 1 \times 10^{-3}$ mbar·l/(s·m) (Helium Leak Tested)
Attachment Styles	Flat Belt, Integrated L-Flange, U-Bellows, Inverted
Frame & Backing Bars	St 37.2 Carbon Steel / Galvanized / AISI 304 SS

3 INDUSTRIAL APPLICATIONS & QUALITY ASSURANCE

- Industrial fan intake & discharge ductwork
- Heavy ventilation & clean-gas duct systems
- Baghouse dust collectors & bag filter connections
- Cement, mineral & paper mill air handling

INTERNATIONAL STANDARD COMPLIANCE

All BundleTec compensators are engineered to RAL-GZ 719 and FSA-DSJ standards with certified helium leak tightness and DIN EN ISO 13934-1 tensile compliance.

RAL-GZ 719

FSA-DSJ

ISO 9001:2015

CE

ATEX 2014/34/EU

BUNDLETEC MANUFACTURING FACILITIES

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