



seiris
EXPANSION JOINTS

PTFE EXPANSION JOINTS



TYPES OF PTFE EXPANSION JOINTS

PTFE BELLOWS

Diameter: DN 25 up to DN 900
From DN25 to DN 200 Bellows in Extra Heavy Duty wall thickness
For larger diameters, two choices of wall thickness: Heavy Duty and Extra Heavy Duty
Convolutions: 2 up to 10 (more on request)
ASME or DIN Flange Standards Available also in BASF Std Lengths.



ARMOURED PTFE BELLOWS

Diameter: DN 40 up to DN 500
Up to max 25 barg
Metal shells made out of stainless steel or Hastelloy ASME or DIN Flange Standards



KEY PRODUCT FEATURES

Flanges
PTFE Convolutions
Root Rings
Tie Rods
Limit Sleeves
Anti-Snake Rings
Vacuum Support Rings
Data Labels
Safety Shields (recommended)

SELECTION CRITERIA

- Resistance to corrosion
- Mechanical characteristics
- Stress free convolution process
- Long lifetime

MAIN ADVANTAGES

- Excellent chemical resistance
- Anti-adhesive surface
- UV resistance
- Wide range of temperature



MATERIALS

- Bellow: **Virgin White PTFE**
 - Flanges: Carbon Steel, Stainless Steel
 - Root Rings: Stainless Steel (external)
 - Tie-Rods: Carbon Steel Zinc Galvanized
 - Bellow: **Black PTFE** (dissipative / anti-static)
 - Flanges: Stainless Steel, other metals
 - Root Rings: Different Alloys (external)
 - Tie-Rods: Stainless Steel
 - Anti-Snake Rings
 - Vacuum Bands
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STANDARDS

PTFE Expansion Joints are designed, manufactured and tested according to:

- 1999/Pressure Equipment Directive 97/23/EC
- CE Conformity
- E.J.M.A. (Expansion Joints Manufacturers Association, Inc.)
for armoured bellows

QUALITY CONTROL



A WIDE RANGE OF TESTS CAN BE CARRIED OUT ON CUSTOMERS REQUEST

- Bursting Pressure Test
- Pressure Increase Test
- Internal Pressure Long Term Creep Test
- Mechanical and Dimensional Testing
- Hydraulic pressure
- Effective Area and Spring Rates



SERVICES



- Technical assistance for the design of piping systems
- On site inspection
- Measurements





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