

CRANE RESISTOFLEX®

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Convolution Designs

[Up to 200 psig]*
Non-shock Working Pressure

[Up to 450°F]*
Working Temperature

[100%]
Roll & Hydrostatic Tested

* Maximum pressure and temperature are not simultaneous ratings. Ratings depend on model, size and operating conditions. Size ranges are listed by model on page 2.

PTFE Expansion Joints

Designed for demanding chemical processing applications, Resistoflex® PTFE Expansion Joints absorb piping movement, isolate vibration, and help protect critical equipment from mechanical stress in highly corrosive environments.

E Series, Stainless Steel Limit Cables





R Series, Factory-Set Limit Bolts

Top Applications

- Pump & Equipment Connections
- Glass-Lined Equipment
- FRP Piping Systems
- Weigh Tanks & Load Cells
- Thermal Movement
- Installation Misalignment
- Vibration & Noise Isolation

Why Resistoflex®

- 70+ Years of PTFE Innovation & Chemical Transfer Expertise
- Widely Trusted and Approved Across the Chemical Processing Industry
- Engineered for Critical Chemical and Safety-Critical Applications
- Custom-Engineered Solutions for Your Specific Application
- Proven Quality, Traceability, and Product Verification
- Expert Sales, Engineering, and Application Support

Accommodate Movement

Designed to accommodate axial, lateral, and angular movement within published operating limits. Performance capabilities are supported by documented engineering specifications.

Isolate Vibration & Reduce Stress

Flexible PTFE bellows help isolate vibration from pumps and process equipment, reducing mechanical loads and system fatigue.

Protect Stress-Sensitive Equipment

Low activation forces help safeguard glass-lined, graphite, FRP, and other sensitive process equipment from piping-induced loads.

Integrated PTFE Sealing Surface

Contour-molded PTFE extends across the full flange face, providing a reliable sealing interface without separate gaskets.

R SERIES | Bolt-Limited Control Movement

Factory-set limit bolts control extension, offset, and angular movement while providing resistance to torsional forces.

Model	Listed Sizes	Convolutions	Capability
R6904	1/2 - 20 inches	2	Standard movement
R6905	1/2 - 20 inches	3	Increased travel
R6906	1/2 - 20 inches	5	Maximum movement

Key Advantages
Factory-set limit bolts provide controlled movement
Resists harmful torsional forces
Visual indication of excessive rotational loading
Suitable for thermal expansion, vibration isolation, and piping misalignment

Design Considerations
Vacuum capability varies by model and operating conditions
Factory limit-bolt settings must not be modified
Special neutral lengths and SHD configurations may require engineering review



R6904 R6905 R6906

E SERIES | Compact Cable-Limited Design

Aircraft-grade stainless steel cables control extension while maximizing lateral and angular movement in space-constrained installations.

Model	Listed Sizes	Convolutions	Capability
E6904	1 - 12 inches	2	Standard movement
E6905	1 - 8 inches	3	Increased travel
E6906	1 - 6 inches	5	Maximum movement



E6904 E6905 E6906

Key Advantages
Compact design with no protruding limit bolts
Accommodates thermal movement and installation misalignment
Supports vibration and noise isolation
Common neutral lengths may facilitate retrofit installations

Design Considerations
Vacuum capability varies by model and operating conditions
Cables are not designed to resist torsional loads
Periodic inspection is recommended in highly corrosive environments

Application Requirements

To size and quote an expansion joint, provide: Media, size, neutral length, flange drilling/materials, operating conditions, vacuum requirements, and anticipated movement.

Engineering Considerations: Published movement limits assume independent movement modes. Combined movements and special configurations should be reviewed by Resistoflex® Engineering.

Important Notes: Use within published pressure, temperature, vacuum, and movement limits. Applications involving torsional movement, abrasive media, or high-velocity flow may require special design considerations.

Expansion Joint Design Manual

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