

1 Pure 100% Virgin PTFE Resin

The unmatched performance of Flexijoint is due to its exclusive FluoroForming™ process, a development of Ethylene. The Fluoroforming™ process employs only high molecular weight resin to utilize pure PTFE with no pigments or additives which might contaminate contacting fluids by leaching out, or to be vulnerable to blistering. In addition, high molecular weight with tightly controlled crystallinity, inherent in the Ethylene FluoroForming™ process, results in lower permeation rates, outstanding flex-life and maximum tensile strength.

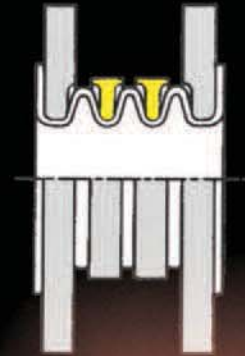
Competitors which use paste extruded resin are NOT using Pure PTFE.

They must mix a hydrocarbon such as Isopar to facilitate PTFE paste extruding.

3 T-Band™

Root & Sidewall Support

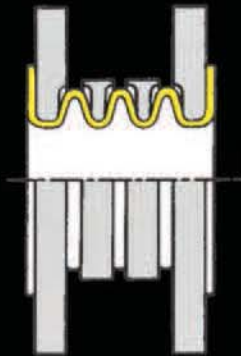
Flexijoint T-Band™ reinforcement on the outside of the convolutions supports the convolution root and sidewall for improved service life and increased safety in high pressure applications. As pressure and temperature increase, the sidewall of the PTFE convolutions conform to the contour of the T-Band™, improving stability under pressure.



2 Uniform Wall Thickness

Ethylene's exclusive FluoroForming™ process guarantees multiple convolution walls of constant uniform thickness for any size. This relationship of heavy wall and geometry is one of the basic reasons for the outstanding performance of Flexijoints. Deep convolutions allow increased axial travel and also reduce the force necessary to produce movement or lateral misalignment. As a result, Flexijoints have a longer service life when compared to conventional blow molded or stretch molded expansion joints which introduce stress points and exhibit alarming thinning of the convolution wall and root.

Note: Blow-Molding is sometimes referred to as "Contour" molding by some manufacturers.

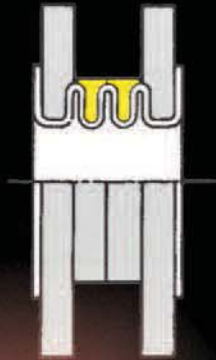


Actual Flexijoint

DISTINCTIVE FEATURES

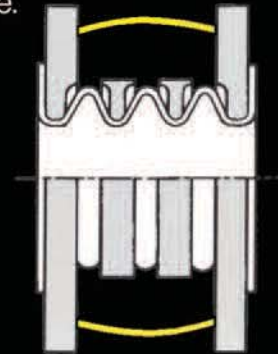
4 T-Band™ Protection From Over Compression

Flexijoint T-Band™ metal reinforcement on the outside of the convolutions not only contributes to the pressure rating of the Flexijoint but also limits the total axial movement in compression. The shoulders of the T-Band™ are designed to butt when maximum compression limit has been reached to provide protection from excessive compression for improved safety and increased service life.



5 LimitLinks™ Protection From Over Expansion

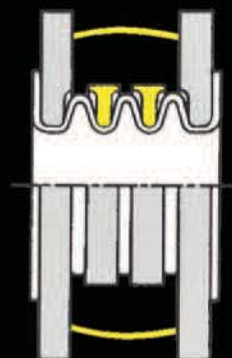
LimitLinks™ consist of stainless steel cables conforming to MIL-C5424, Government specification for Aircraft Cable, at the ends of which are stainless steel ball-shaped terminals that are swaged. The opposite ends of the LimitLink™ are firmly anchored in the Flexijoint flanges in a manner which limits over expansion of the Flexijoint but also leaves the terminals free to swivel as the flanges change position relative to each other during their adjustment to angular misalignment, parallel misalignment, purely axial motion or a combination of all three.



6 LimitLinks™ & T-Band™ Additional Benefits

LimitLinks™ provide easy installation even when the mating flange bolts don't align. They also won't get in the way and they never need to be removed for installation unlike competitors LimitBolt designed expansion joints which may void warranties.

T-Bands™ cover approximately 75% of the outside of the convolution when not compressed to provide protection from external damage such as falling tools or weld splatter.



Cross-Section