

# Flexijoint®

With  
**Durcor-62™**  
**Advanced Composite  
Flanges**

**ZERO CORROSION RATE**



PureFlex

**ETHYLENE**

# Flexijoint® PTFE Bellows

The Severe Service  
Expansion Joint



The unmatched performance of Flexijoint® is due to its exclusive Fluoroforming™ process, a development of Ethylene™. The proprietary forming process guarantees convolution walls of uniformed thickness, maximum strength and minimum permeability commensurate with greatest flexibility.

Ethylene also invented T-Bands™ & LimitLinks™. T-Bands™ on the outside of the convolution contributes to the pressure rating of the Flexijoint and also prevents the joint from over compressing. T-Bands™ also offer a degree of protection from falling tools or debris.

Unlike Limitbolt designed expansion joints, Limitlinks™ allow free swivel as the flanges change position relative to each other during their adjustment to angular misalignment, parallel misalignment, purely axial motion or combinations of all three.



## Applications

- Lined Steel Pipe
- Fiberglass Pipe
- Glass Pipe
- Pump Suction & Discharge
- Load Cells
- HVAC Noise Reduction
- Expansion / Contraction
- Misalignment
- Reduce Vibration

## Features

- Flanges are Strong As Steel
- 1/2 The Weight
- Class 150 Rated / ANSI B16.5
- Lower Cost vs. S.S Flg PTFE Bellows
- Lower installed Cost
- Maximum Travel - 2 to 12 Convolutions
- Size Range 1" - 12"
- (-)60F to +300F
- Zero Corrosion Rate Inside & Out
- 10 Year Flange Warranty
- Lower Life Cycle Cost - Guaranteed !!!

# Durcor-62™ Flanges

## Advanced Composite Technology

Durcor-62™ Flanges are manufactured by PureFlex, Inc™ from a proprietary advanced fiber reinforced composite. Durcor-62™ has tensile and compressive strengths that rival steel along with outstanding impact resistance that is unmatched in the industry. Its reinforcing fibers are long and interlocked, this interlocked reinforcement system transfers loads throughout the fiber matrix, making Durcor-62™ Flanges virtually indestructible. The strength of Durcor-62™ enables the Flange to maintain CLASS 150 rating and ANSI B16.5 dimensions. And allows it to be installed in any type of piping system without the need for special considerations. Durcor-62™ Flanges excel in temperatures from (-)60°F to 300°F and has only .001" of thermal expansion across its full temperature range.

- Tensile strength of 50,000psi per ASTM D-638 or 358 Mpa
- Notched Izod impact strength of 30 ft. lb/inch per ASTM D-256 or 1760 J/M are achieved.

### *Tensile strength comparison*

**Steel 60,000psi**

**Durcor-62™ 50,000psi**

**STD. FRP 12,000psi**

## Superior Performance

Durcor-62™ vinyl ester resin backbone provides excellent protection when exposed to aggressive chemicals and hostile atmospheres such as acid sprays, bleach, salt water and high chlorides. Durcor-62™ Flanges outperform stainless and ductile iron flanges not only in corrosive environments but non-corrosive as well. Its lightweight advantage reduces the need for heavier support structures for hanging, eliminates the need for extra equipment and personnel for pipe and fitting installation and reduces pipe strain once installed. Durcor-62™ Flanges are so dependable and maintenance free that we offer the industries first "no questions asked" 10 year limited warranty. Contact Ethylene or your local distributor for details.

## Weights

SIZE	FOR TWO CONVOOLUTIONS	EACH ADD'L CONVOOLUTION
1"	1.75 lbs	.02 lbs
1 1/2"	2.50	.03
2"	3.75	.04
3"	6.25	.07
4"	8.75	1.0
6"	11.00	2.0
8"	19.00	3.0
10"	30.00	4.0
12"	42.00	5.0

## Materials

- Bellows:  
Virgin PTFE
- Flanges:  
Durcor-62™  
Advanced Composite
- T-Bands™:  
Powder Coated Epoxy DI  
Option: Composite
- LimitLinks™:  
303 Stainless  
Conforming to MIL-C5424.  
Option: Monel

## Thread Strength

Durcor-62™ Provides Greater Than 210 Ft-lbs Of Thread Strength. No Need for Alloy Thread Inserts



Flexijoint® Expansion Bellows

### Flexijoint® PTFE Expansion Joints



FLO-VU® Sight Flow Indicators

### FLO-VU® Sight Indicators With Safety Shield FACTORY MUTUAL APPROVED



### EthylArmor® & pHampler® Dip Tubes, Spargers & Sampling



Fluoropolymer-Lined Specialty Fittings

### MonoDerm™ Large Diameter Lined Pipe and Special Shapes

### FlexArmor® PTFE Lined Metal Bellows Double Contained



### T-Line Strainers™



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