

GARFLEX® 8100

GARFLEX® expansion joints feature rugged yet flexible nylon tire cord reinforcement in a molded, spherical bellows design that ensures exceptional burst pressure ratings. The streamlined flowing arch design reduces turbulence and allows smooth, quiet flow without the restricted movement you'll find with a filled arch design.

BENEFITS

- » Flowing arch design prevents sediment buildup and reduces turbulence
- » Floating flanges can be rotated to accommodate torsional misalignment
- » Can be installed against flat or raised face pipe flanges without the need for gaskets or spacers
- » Molded spherical bellows accommodate up to one inch of axial movement and transverse deflection
- » The nylon-reinforced nitrile provides the support needed for higher pressure applications without sacrificing flexibility while also providing resistance to most hydrocarbons, oils, and gasoline.

STANDARD DESIGN

- » Tube
 - › Nitrile bellows with rugged nylon tire cord reinforcement ensure strength without sacrificing flexibility
 - › Incorporates a flowing arch design to eliminate product buildup
- » Cover
 - › The homogeneous layer of neoprene rubber can withstand the rigors of weathering and ozone.
- » Flanges
 - › Ductile iron flanges with a rust-resistant coating

Note: Style 8100 expansion joints are supplied with rotating flanges drilled to ASME B16.5/B16.47 Series A Class 125/150 (standard).
* Retaining Rings for 10"/12" ID joints have control units built in.

BELLOW SIZES

Nominal F-F (in.)	Nominal Bellow I.D. (inch)								
	2	2.5	3	4	5	6	8	10	12
5	•	•	•	•	•	•	•	•	•
6	•	•	•	•	•	•	•	NA	NA
8	NA	NA	NA	NA	NA	NA	NA	•	•

CERTIFICATIONS AND COMPLIANCE

- » ABS Type Approved (2" - 12" ID)
- » ISO 15540 Fire Safe***
- » ASTM F1123 Compliant
- » 46CFR56 (USCG)

*** Requires use of fire safe cover



TEMPERATURE / PRESSURE RATING

Nylon-Reinforced Nitrile

OPERATING TEMPERATURE		PRESSURE	
°F	°C	psi	bar
up to 122°	up to 50°	232	16
123° - 158°	50° - 70°	174	12
159° - 194°	70° - 90°	139	9.5
195° - 210°	90° - 100°	70	5
211° - 230°	100° - 110°	25	1.7

VACUUM RATING*

PIPE I.D.		VACUUM	
Inch	mm	in. Hg	mm Hg
2 - 2-1/2	50 - 63	23	575
3	75	20	500
4	100	17	425
5 - 6	125 - 150	11	275
8	200	8	200
10 - 12	250 - 300	5	125

* At nominal FF dimensions only.

MOVEMENT CAPABILITIES

Type Movement	MOVEMENT	
	Inch	mm
Compression	1	25
Elongation	1	25
Transverse Deflection (at recommended installed position)	±1	±25

Movements are non-concurrent.

Type Movement	PIPE I.D.		Max. Allowed
	Inch	mm	
Angular Deflection (at recommended installed position)	2	50	35°
	2-1/2 - 3	63 - 75	30°
	4	100	25°
	5 - 6	125 - 150	20°
	8	200	15°
	10 - 12	250 - 300	10°