

# Garlock Expansion Joint ABRA-LINE™ Style 4394

Engineered for Abrasive Applications

The ABRA-LINE™ family of products was developed for highly abrasive applications typically found in the power generation, fertilizer, mining and chemical industries. These may include flue gas desulphurization systems, phosphate mining, dry bulk power transfer systems, tailings and slurry applications. Our proprietary urethane formula was designed to reduce wear and extend service life.

This multi-convoluted, lightweight expansion joint is designed for lower pressure applications that require significant amounts of movement, axially and/or laterally. Its low spring rates make it ideal for load cell and shaker boot applications.



## BENEFITS

- » Proprietary urethane formula for abrasive applications
- » Lightweight design installs easily and costs less to ship
- » Can be custom designed for even greater movement capabilities
- » Choice of construction materials suitable for wide range of temperatures
- » Available in flanged or sleeve type design, up to 48" max. (1,219mm) I.D.

\*Contact Garlock for larger I.D. sizes

## PRESSURE

- » Without external reinforcing rings: up to 3 psi (0.2 bar)
- » With external reinforcing rings: up to 15 psi (1.0 bar)

## VACUUM

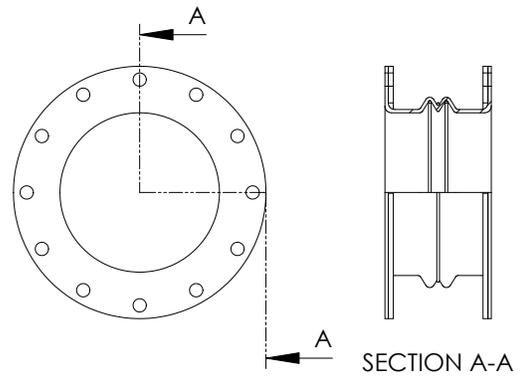
- » Without internal reinforcing rings: up to 3 inches (75mm) Hg
- » With internal reinforcing rings: up to 15 inches (381mm) Hg

## MOVEMENT CAPABILITIES PER CONVOLUTION

Type Movement	Pipe Size		Movement	
	Inch	mm	Inch	mm
 Compression	2-6	50-150	3/4	19
	8-10	200-250	7/8	22
	12-18	300-450	1-1/8	28
	20-up	500-up	1-5/8	41
 Elongation	2-6	50-150	5/8	16
	8-10	200-250	3/4	19
	12-18	300-450	1	25
	20-up	500-up	1-1/4	31
 Lateral	2-6	50-150	5/8	16
	8-10	200-250	3/4	19
	12-18	300-450	1	25
	20-up	500-up	1-1/4	31

## ALTERNATE COVER MATERIALS

- » Neoprene
- » Nitrile
- » CSM
- » EPDM
- » Fluoroelastomer

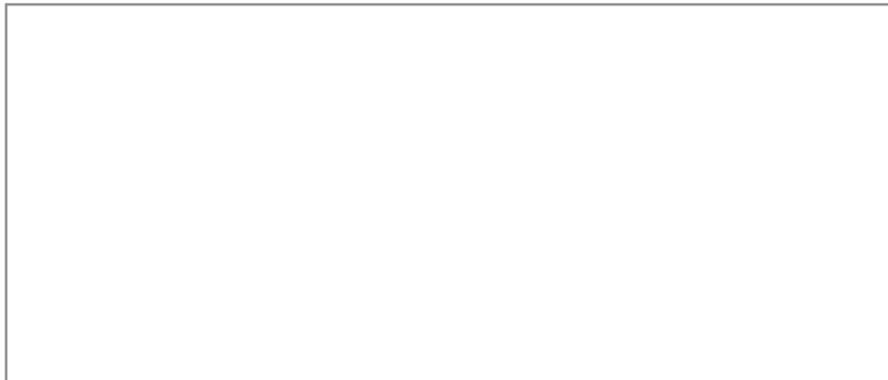


## TEMPERATURE

- » Standard Chlorobutyl/Polyester w/ urethane +180°F (82°C)

## OPTIONAL CONFIGURATIONS

- » Sleeve end connections
- » External and internal reinforcement rings
- » Extended face-to-face
- » Multiple convolutions for higher movements



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### **GARLOCK**

an *EnPro* Industries family of companies

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