Garlock Expansion Joint ABRA-LINE[™] Style 404

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.

Style 404 Expansion Joints are specially designed for full vacuum abrasive service applications. The tube material is a proprietary urethane formulation. Style 404 can be constructed as a single or multiple arch design. It can also connect pipe flanges in concentric or eccentric tapers, to join piping of unequal diameters.

DESIGN

- » Tube
 - Proprietary urethane formula for abrasive applications
 - Abrupt filled arch configuration provides maximum movement, and pressure and vacuum resistance in slurry application
- » Body
 - Composite fabric construction with welded, treated metal body rings for dimensional stability and pressure/vacuum resistance
- » Cover
 - Wide selection of elastomers available which are resistant to oxidation

OPTIONAL CONFIGURATIONS

- » Multiple Arch- For higher movements
- » Filled Arch- To eliminate media buildup
- » Oversized Arch- For higher movements
- » Concentric and Eccentric Tapers- To connect piping of unequal diameter
- » Custom Drilling- ANSI, DIN, AWWA, BS, JIS, and special drilling patterns available on request
- » Extended Face-to-face
- » Offsets: lateral, angular, and torsional

GARLOCK

an EnPro Industries family of companies

Tel: 1-877-GARLOCK / 315.597.4811 Fax: 800.543.0598 / 315.597.3216 www.garlock.com Garlock Sealing Technologies Garlock Rubber Technologies GPT Garlock PTY Garlock do Brasil Garlock de Canada, LTD Garlock China Garlock Singapore Garlock Germany Garlock India Private Limited Garlock de Mexico, S.A. De C.V. Garlock New Zealand Garlock Great Britain Limited Garlock Middle East

TARGET MARKETS

- » Power Generation
- » Fertilizer
- » Mining

RETAINING RINGS

- » Required for all applications; provides metal surface to distribute bolt load evenly, preventing flange damage during bolt tightening
- » Standard material: mild steel with corrosion-resistant coating; galvanized or stainless steel also available

CONTROL UNITS/TIE RODS

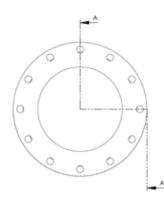
- » Recommended on most applications to prevent damage due to excessive pipe movements
- » Standard material: mild steel, galvanized or stainless steel also available

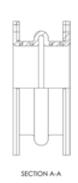




SPECIAL COVER MATERIALS

- » CSM
- » Nitrile
 - vitrile
- » Fluoroelastomer »
- » EPDM
- » Neoprene
- » Chlorobutyl





TEMPERATURE

» Standard Chlorobutyl/Polyester

+180ºF (82ºC)

PRODUCT TABLE

		Movements							
Pipe Size I.D.		Compression		Lateral		Elongation			
inches	mm	inches	mm	inches	mm	inches	mm		
1 - 1½	25 - 40	1/8	3	1/8	3	1/16	1.5		
2 - 5	50 - 150	1/4	6.5	1/4	6	1/8	3		
6 - 18	200 - 450	3/8	9.5	1/4	6	3/16	4.5		
20 - 24	500 - 600	7/16	11	1/4	6	7/32	5.5		
26 - 40	650 - 1000	1/2	12.5	1/4	6	1/4	6		
42 - 120	1050 - 3000	9/16	14	1/4	6	1/4	6		

PRESSURE TABLE										
Pipe Size I.D.		Pressure		Vacuum						
inches	mm	psi	bar	inch Hg	mm Hg					
1/2 - 4	13 - 100	165	11.3	29.9	750					
5 -12	125 - 300	140	9.6	29.9	750					
14	350	85	5.8	29.9	750					
16 - 24	400 - 600	65	4.5	29.9	750					
26 - 66	650 - 1,650	55	3.8	29.9	750					
68 - 96	1,700 - 2,400	45	3.1	29.9	750					
98 - 108	2,450 - 2,700	40	2.8	29.9	750					
110 - 120	2,750 - 3,000	30	2	29.9	750					



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