

GUARDIAN® 200 and 200HP

Garlock GUARDIAN® 200 expansion joints consist of a chemically-resistant FEP* liner mechanically bonded to an abrupt arch. A chlorobutyl cover and blue protective coating add resistance to environmental effects. (Alternate cover materials available.)

Benefits

- High-density FEP liner reduces permeation and offers optimal chemical resistance
- Mechanically bound liner reduces delamination; no glue to be vulnerable to chemical attack
- High pressure and vacuum resistance ensures suitability for broad range of applications
- Available with GYLON® 3545 gasket face for raised face flange connections

Design

- **Tube**
 - Seamless FEP lining extends to the outer edge of the flange; completely fused to the joint body
 - Abrupt arch design used for maximum movement capabilities

- **Body**
 - Chlorobutyl/polyester construction with welded, treated metal body rings for dimensional stability
- **Cover**
 - Homogeneous layer of chlorobutyl elastomer is standard
 - Elastomer extends to the outside diameter of the flange

Fully Tested and Field Engineered

All Garlock expansion joint styles have been rigorously lab and field-tested, and engineered to ensure long life and reliable service.

Temperature

	Max. Temp.
Standard chlorobutyl/polyester	+250°F (+120°C)
Chlorobutyl/fiberglass/Kevlar**	
with EPDM cover	+300°F (+150°C)
Fluoroelastomer w/ fiberglass/Kevlar	+400°F (+205°C)

* Fluorinated Ethylene Propylene

** Kevlar is a registered trademark of DuPont.

	Pipe I.D.		Pressure Rating @		Pressure Rating @		Vacuum	
	Inch	mm	3:1 Safety Factor psi	bar	4:1 Safety Factor psi	bar	in. Hg	mm Hg
GUARDIAN® 200†	1/2-4	13-100	165	11	125	8.5	29.9	750
	5-12	125-300	140	10	105	7	29.9	750
	14	350	85	6	65	4.5	29.9	750
	16-24	400-600	65	4.5	50	3.5	29.9	750
	26-66	650-1,650	55	3.8	40	2.8	29.9	750
	68-96	1,700-2,400	45	3	35	2.5	29.9	750
	98-108	2,450-2,700	40	2.8	30	2	29.9	750
	110-144	2,750-3,600	30	2	25	1.7	29.9	750
GUARDIAN® 200HP†	1/2-4	13-100	200	14	150	10.4	29.9	750
	5-12	125-300	190	13	145	10	29.9	750
	14	350	130	9	100	7	29.9	750
	16-20	400-500	110	8	85	5.5	29.9	750
	22-24	550-600	100	7	75	5	29.9	750
	26-40	650-1,000	90	6	65	4.5	29.9	750
	42-66	1,050-1,650	80	5.5	60	4	29.9	750
	68-96	1,700-2,400	70	5	50	3.5	29.9	750
	98-108	2,450-2,700	60	4	45	3	29.9	750
	110-144	2,750-3,600	50	3.5	35	2.5	29.9	750



Made in the U.S.A.

† Higher pressure designs are available. Call Garlock with application details.