

GraphiTech

Oseco's GraphiTech rupture discs are made of resin-impregnated graphite for use in highly corrosive processes.

Available in 1" through 24" sizes, GraphiTech discs offer a 0% manufacturing range and 90% operating ratio allowing the discs to be stamped at their requested burst pressure and temperature.

GraphiTech rupture discs are available in the following configurations:

- GTM: Monoblock**
- GTIL: Inverted with TFE liner**
- GTMV: With vacuum support**

- Sizes 1" through 24"
- Includes non-asbestos inlet & outlet gaskets
- 0% manufacturing range
- Excellent for gas and liquid service
- 392°F Maximum temperature without high temperature spacer
- Burst Tolerance:
 - ±5% > 15 psig, ±.75 psig < 15 psig
 - +.75 psig, -0 psig below 1 psig
- Operates to 90% of stamped burst pressure
- TFE grade fluoropolymer liners available for process side (Specify GTIL when ordering)
- Available armored ring (carbon steel or stainless steel available)
- Corrosion resistant
- Armored ring strongly recommended
- ASME UD stamp available

GraphiTech Min/Max Burst Pressures @ 72°F in 150# Flanges

Size	Diameter		GTM		GTIL		GTMV	
	I.D.	O.D.	Min PSIG (barg)	Max PSIG (barg)	Min PSIG (barg)	Max PSIG (barg)	Min PSIG (barg)	Max PSIG (barg)
1	1	2.5	15 (1.03)	400 (2.758)	10 (.69)	400 (27.58)	15 (1.03)	50 (3.45)
1.5	1.5	3.25	7 (.48)	300 (20.68)	7 (.48)	300 (20.68)	7 (.48)	50 (3.45)
2	2	4	3 (.21)	250 (17.24)	3 (.21)	250 (17.24)	3 (.21)	50 (3.45)
3	3	5.25	2 (.14)	200 (13.79)	2 (.14)	200 (15.79)	2 (.14)	50 (3.45)
4	4	6.75	2 (.14)	150 (10.34)	1.5 (.10)	150 (10.34)	2 (.14)	50 (3.45)
6	6	8.625	1 (.07)	100 (6.89)	1 (.07)	150 (10.34)	1 (.07)	50 (3.45)
8	8	10.875	1 (.07)	100 (6.89)	.50 (.03)	150 (10.34)	1 (.07)	50 (3.45)
10	10	13.25	5 (.34)	100 (6.89)	.25 (.02)	125 (8.62)	1 (.07)	50 (3.45)
12	12	16	5 (.34)	100 (6.89)	.25 (.02)	125 (8.62)	.5 (.03)	50 (3.45)
14	13.25	17.625	5 (.34)	75 (5.17)	.25 (.02)	100 (6.89)	.5 (.03)	50 (3.45)
16	15.25	20.125	5 (.34)	75 (5.17)	.25 (.02)	100 (6.89)	.5 (.03)	50 (3.45)
18	17.25	21.5	5 (.34)	50 (3.45)	.25 (.02)	100 (6.89)	.5 (.03)	50 (3.45)
20	19.25	23.75	5 (.34)	50 (3.45)	.25 (.02)	50 (3.45)	.5 (.03)	50 (3.45)
24	23.25	28.125	5 (.34)	25 (1.72)	.25 (.02)	50 (3.45)	.5 (.03)	50 (3.45)



GTM



**GTMV w/Bar
Use < 20psig**



**GTMV w/Dial
Use < 10psig**



GTIL

GraphiTech Min/Max Burst Pressures @ 72°F in 300# Flanges

Size	Diameter		GTM		GTI & GTIL		GTMV	
	I.D.	O.D.	Min PSIG (barg)	Max PSIG (barg)	Min PSIG (barg)	Max PSIG (barg)	Min PSIG (barg)	Max PSIG (barg)
1	1	2.75	50 (3.45)	400 (2.758)	10 (.69)	400 (27.58)	15 (1.03)	50 (3.45)
1.5	1.5	3.625	15 (1.03)	300 (20.68)	7 (.48)	300 (20.68)	15 (1.03)	50 (3.45)
2	2	4.25	15 (1.03)	250 (17.24)	3 (.21)	250 (17.24)	15 (1.03)	50 (3.45)
3	3	5.75	15 (1.03)	200 (13.79)	2 (.14)	200 (15.79)	15 (1.03)	50 (3.45)
4	4	7	15 (1.03)	150 (10.34)	1.5 (.10)	150 (10.34)	15 (1.03)	50 (3.45)
6	6	9.75	15 (1.03)	100 (6.89)	1 (.07)	150 (10.34)	15 (1.03)	50 (3.45)
8	8	12	15 (1.03)	100 (6.89)	.50 (.03)	150 (10.34)	15 (1.03)	50 (3.45)

Armored ring required at or above these Burst Pressures

Nominal Diameter	Burst Pressure
1-3 inch	150 psig (10.34 barg)
4 & 6 inch	100 psig (6.89 barg)
8 & 10 inch	75 psig (5.17 barg)
12-24 inch	50 psig (3.45 barg)

High Temperature Spacer

The GraphiTech HT is available for gas and vapor applications where temperatures exceed 392°F. When combined with the HT, GraphiTech discs can withstand temperatures up to 700°F. The HT is not available for liquid applications.

