

Gasket Assembly Stress Recommendations

The minimum recommended assembly stress for Garlock metallic gaskets, GRAPHONIC®, FLEXSEAL®, EDGE®, Kammprofile and Jacketed products differ from “m” and “y” values. “m” and “y” values do not take factors such as flange condition and blowout resistance into account. Garlock offers the following minimum assembly stresses as rules of thumb to use to calculate installation bolt torque values.

Operating Pressure psig (bar)	Minimum Recommended Assembly Stress psi (N/mm ²)				
	GRAPHONIC®	FLEXSEAL®	EDGE®	Kammprofile	Jacketed
Up to 300 (20)	3600 (25)	7500 (52)	5000 (35)	4000 (28)	10000 (69)
Up to 800 (55)	4800 (33)	10000 (69)	7500 (52)	6000 (42)	10000 (69)
Up to 2000 (140)	6000 (42)	10000 (69)	10000 (69)	10000 (69)	10000 (69)
Up to 6000 (414)	N/A	10000 (69)	10000 (69)	15000 (103)	N/A

Maximum recommended compressive stress

Graphonic® = 20,000 PSI

Flexseal® = 30,000 PSI

Edge® = 30,000 PSI

Kammprofile = 40,000 PSI

Jacketed = 30,000 PSI

July 2017