

Gasket Assembly Stress Recommendations

The minimum recommended assembly stress for Garlock compressed sheet, GYLON® and GRAPH-LOCK® 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)		
	1/32" (0.8mm)	1/16" (1.6mm)	1/8" (3.2mm)
Up to 300 (20)	2500 (17)	3600 (25)	4800 (33)
Up to 800 (55)	4800 (33)	5400 (37)	6400 (44)
Up to 2000 (140)	7400 (51)	8400 (58)	9400 (65)

Maximum recommended compressive stress for all **Compressed Fiber*** and **GYLON®** gaskets = 15,000 psi.

*Maximum recommended compressive stress for all **GRAPH- LOCK®** and **MULTI-SWELL™ 3760** gaskets = 10,000 psi.

Minimum recommended gasket stress for GYLON and Compressed Fiber gaskets in full face/flat faced flanges can be much lower. Stresses in the range of 1000 to 2000 psi are usually acceptable for liquid services. Please contact Applications Engineering when using these materials as full face gaskets in flat faced flanges, especially when dealing with gaseous media.

Minimum recommended gasket stress for Style 3750 and 3760 gaskets in full face/flat faced flanges is 500 psi, when used in fluids that create swell. Please contact Applications Engineering when stresses are lower.

Recommended assembly stress for **Homogeneous Rubber:**

Minimum = 600 psi (They will seal at approx 200 psi)

Maximum = 900 psi for Durometer less than 70 Shore A

Maximum = 1200 psi for Durometer 70 Shore A or greater

Recommended assembly stress for **Stress Savers** gaskets = 600 to 1200 psi

Nov 2015