

Quick Reference Selection Guide

To be considered acceptable for a specific application, a product must meet the criteria in all four of the categories shown below. Acceptable values are marked with a "■". Also refer to chemical compatibility charts to verify chemical compatibility or call Garlock Engineering for assistance.

This chart does not take special operation conditions into consideration. i.e., pressure surges, temperature cycling and flange design.

		IFG® 5500 General Service	Style G-9900 High Temperature	Style 3125SS/TC High Temperature	Style ST-706 Saturated, Superheated Steam	Style 3500 GYLON® Aggressive Chemicals	Style 3510 GYLON® Aggressive Chemicals	Style 3545 GYLON® Aggressive Chemicals
1. Flange Materials	Metallic	■	■	■	■	■	■	■
	Non-Metallic							*
2. Continuous Operating Temperature (COT)	Ambient to 200°F (20°C to 95°C)	■	■	■	■	■	■	■
	200°F to 300°F (95°C to 150°C)	■	■	■	■	■	■	■
	300°F to 400°F (150°C to 205°C)	■	■	■	■	■	■	■
	400°F to 500°F (205°C to 260°C)	■	■	■	■	■	■	■
	500°F to 650°F (260°C to 345°C)		■	■	■			
	650°F to 750°F (345°C to 400°C)			■	■			
	750°F to 1200°F (400°C to 650°C)			*				
3. Application Pressure	Vacuum to 250 psig (Vacuum to 17 bar)	■	■	■	■	■	■	■
	Vacuum to 1000 psig (Vacuum to 69 bar)	■	■	■	■	■	■	■
	Vacuum to 1500 psig (Vacuum to 103 bar)		■	■	■			
	Vacuum to 2000 psig (Vacuum to 138 bar)		■	■				
4. PxT Values	0 to 50,000 psig x °F (0 to 1,500 bar x °C)	■	■	■	■	■	■	■
	0 to 350,000 psig x °F (0 to 12,000 bar x °C)	■ ¹	■	■	■ ^{2*}	■	■	■
	0 to 700,000 psig x °F (0 to 25,000 bar x °C)		■ ³	■ ³				

* Consult Garlock Applications Engineering at 1-800-448-6688
P x T max. = psig x °F (bar x °C)

¹ 1/8" thick IFG® is rated at 250,000 P x T

² 1/8" thick ST-706 is rated at 500,000 P x T

³ 1/8" thick G-9900 and 3125SS/TC are rated at 350,000 P x T

WARNING:

Properties/applications shown throughout this brochure are typical. Your specific application should not be undertaken without independent study and evaluation for suitability. For specific application recommendations consult Garlock. Failure to select the proper sealing products could result in property damage and/or serious personal injury.

Performance data published in this brochure has been developed from field testing, customer field reports and/or in-house testing.

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