

application report

For: DESIGN RATINGS OF SM SERIES, ANSI 300# UNITS USING TEMPERED BOROSILICATE GLASS

MATERIALS OF CONSTRUCTION ^A	GASKET	PRESSURE at TEMPERATURE RATING (°F)												
		-300°	-150°	-120°	-65°	-20°	100°	150°	250°	300°	350°	400°	450°	500°
CARBON STEEL	NBR (BUNA N)					< 740 psig > [5100 kPa]		705 [4860]	665 [4580]					
	NEOPRENE®					< 740 psig > [5100 kPa]		705 [4860]	665 [4580]	655 [4500]				
	FKM (VITON®)					< 740 psig > [5100 kPa]		705 [4860]	665 [4580]	655 [4500]	645 [4450]	635 [4375]		
	PCTFE (KEL-F®)					< 740 psig > [5100 kPa]		705 [4860]	665 [4580]	655 [4500]	645 [4450]	635 [4375]		
	PTFE (TEFLON®)					< 740 psig > [5100 kPa]		705 [4860]	665 [4580]	655 [4500]	645 [4450]	635 [4375]	615 [4250]	600 [4135]
	GRAPHITE (GRAFOIL®)					< 740 psig > [5100 kPa]		705 [4860]	665 [4580]	655 [4500]	645 [4450]	635 [4375]	615 [4250]	600 [4135]
	NON-ASBESTOS (NOBESTOS®)					< 740 psig > [5100 kPa]		705 [4860]	665 [4580]	655 [4500]	645 [4450]	635 [4375]	615 [4250]	600 [4135]
316 STAINLESS STEEL	NBR (BUNA N)					<-----720 psig-----> [4960 kPa]		670 [4615]	590 [4065]					
	NEOPRENE®					<-----720 psig-----> [4960 kPa]		670 [4615]	590 [4065]	560 [3860]				
	FKM (VITON®)					< 720 psig > [4960 kPa]		670 [4615]	590 [4065]	560 [3860]	535 [3685]	515 [3550]		
	PCTFE (KEL-F®)					<-----720 psig-----> [4960 kPa]		670 [4615]	590 [4065]	560 [3860]	535 [3685]	515 [3550]		
	PTFE (TEFLON®)					<-----720 psig-----> [4960 kPa]		670 [4615]	590 [4065]	560 [3860]	535 [3685]	515 [3550]	495 [3410]	480 [3310]
	GRAPHITE (GRAFOIL®)					<-----720 psig-----> [4960 kPa]		670 [4615]	590 [4065]	560 [3860]	535 [3685]	515 [3550]	495 [3410]	480 [3310]
	NON-ASBESTOS (NOBESTOS®)					<-----720 psig-----> [4960 kPa]		670 [4615]	590 [4065]	560 [3860]	535 [3685]	515 [3550]	495 [3410]	480 [3310]
MATERIALS OF CONSTRUCTION ^A	GASKET	-188°	-101°	-84°	-54°	-29°	38°	66°	121°	149°	177°	204°	232°	260°
		PRESSURE at TEMPERATURE RATING (°C)												

^A REFERENCE THE MATERIAL SPECIFICATION sheets to determine standard materials of construction.

NOTE: a 316 sts body with carbon steel covers would be rated as carbon steel in a low-temp application (-20°F : lowest temperature rating)