

Soft seal selection

Abbreviation ASTM 1418	Trade name (Designation)	Code- letter ¹⁾	Option Code	T _{min}		T _{max}		Application
				[°C]	[°F]	[°C]	[°F]	
O-ring								
CR	Neoprene®	K		-40	-40	100	212	Paraffin oil, silicone oil and grease, water and waterbased solvents, refrigerants, ozone
NBR	Buna-N® (Nitrile-Butadiene)	N		-25	-13	100	212	Hydraulic oil, vegetable and animal grease and oil
EPDM	Buna-EP® (Ethylene-Propylene-Diene)	D		-45	-49	150	302	Hot water and superheated steam up to 150 °C, 302 °F, some organic and inorganic acids, silicone oil and grease, FDA compliant
FKM	Viton® (Fluorocarbon)	L		20	-4	180	356	High temperature service (no superheated steam), mineral oil and grease, silicone oil and grease, vegetable and animal grease and oil, ozone, FDA compliant compound available on request
FFKM	Kalrez® (Perfluoro)	C		0	32	250	482	Nearly all chemicals, standard compound is Kalrez® 6375 with steam resistance, FDA compliant compound available on request
Sealing plate								
SP	VESEL SP-1® (Polyimide)	T		-270	-454	300	572	High temperature and high pressure applications (no steam), for chemical resistance refer to manufacturers guide
PCTFE	KEL-F® (Polychlorotrifluoroethylene)	G		-270	-454	204	400	Cryogenic and refrigeration applications, flammable media applications, (e.g. gaseous oxygen) up to 50 bar, 725 psig at 60 °C, 140 °F
PTFE	Teflon® (Polytetrafluoroethylene)	A		-184	-300	150	302	Nearly all chemicals