











BUTTERFLY VALVE SEAT MATERIAL



Property		EPDM	NEOPRENE	VITON	SILICONE
Temperature		-55°–275°F	-40°–225°F	-20°–400°F	-80°–450°F
Resistance to	Acid	Good–Excellent	Good	Good	Good
	Alkali	Good–Excellent	Fair–Good	Poor–Good	Poor–Good
	Petroleum Oil	Poor	Excellent	Excellent	Good
	Vegetable Oil	Good	Good	Excellent	Good
	Abrasion	Good–Excellent	Good	Good	Good–Excellent
Compression Set		Fair	Good	Good–Excellent	Good–Excellent

Seat Material	General Application	Temperature Range	Environments Not Recommended
 NITRILE BUNA-N (NBR)	Hydrocarbons with less than 40% of aromatics, natural gas, air, H ₂ O, sea water, brine, alcohols, glycols (food grade available)	14°F to 176°F	solvents, benzene, xylene
		-10°C to 80°C	
 EPDM	H ₂ O, steam, air, brine, abrasives, phosphates, esters, ketones, alkali, food compounds, liquids and solids, diluted inorganic acids, caustic soda (food grade available)	-4°F to 250°F	hydrocarbons, oils, fats, dry air
		-20°C to 120°C	
 HIGH TEMP EPDM	Hydrocarbons with less than 40% of aromatics, natural gas, air, H ₂ O, sea water, brine, alcohols, glycols (food grade available)	-4°F to 300°F	hydrocarbons, oils, fats, dry air
 Hypalon (CSM)		-20°C to 148°C	
 Silicone	Beverages, food	0°F to 212°F	steam, ketones, hot air, nitric acid
		-18°C to 100°C	
 Fluoroelastomer (FKM) (VITON® or Fluorel®)	Hydrocarbons with high concentration of aromatics, mineral and halogenated acids, phosphoric acid, aliphatic and aromatic ethers	-22°F to 300°F	hydrocarbons, solvents, steam
		-30°C to 150°C	
 Neoprene (CR)	Oils, diluted mineral acids, alkali, fats	0°F to 400°F	steam, ketones, amines, esters, alkali
		-18°C to 205°C	
 Natural Rubber	Abrasive products	-4°F to 212°F	ketones, concentrated acids, solvents for paint
		-20°C to 100°C	
 PTFE/EPDM	Corrosive products, solvents	-40°F to 176°F	steam, hydrocarbons, oils
		-40°C to 80°C	
 PTFE/EPDM	Corrosive products, solvents	-4°F to 250°F	abrasive products, fluorine gases, alkaline metals
		-20°C to 120°C	



127 Village Lane
Easley, SC 29642

p: (864)605-0150
f: (864)605-0830

www.tru-flo.com
sales@tru-flo.com