

Elastomer liners - General information chart for guidance purposes only

The information below should be used as a typical guide as service temperatures may vary slightly from manufacturer to manufacturer.

The application guide is derived from recommendations given by elastomer manufacturers.

The resistance offered by the liner can be affected by the flowing media, ie: its concentration, temperature, pressure and flow rate.

Always check with the manufacturer of the specific valve you intend to use if you are unsure of its suitability for your application.

MATERIAL	GENERAL APPLICATION	SERVICE TEMPERATURE	NOT FOR USE ON
EPDM (Ethylene-propylene rubber)	Fresh water Sea water Brine Esters Alkalis Ozone Alcohols Brake fluid Animal & vegetable fats/ greases Caustic soda solution	Limits: -15°C to +120°C Max for continuous use: 0°C to +100°C	Hydrocarbons Petrol & Oils Fats Greases
NBR (Butadiene-acrylonitrile rubber)	Fresh water Sea water Caustic soda solution Hydrocarbons Natural Gas Oils & Fats Air Gasoline (Petrol)	Limits: -10°C to +80°C Max for continuous use: 0°C to +70°C	Solvents Aromatic hydrocarbons (Eg: Benzene, Toluene, Xylene) Chlorinated hydrocarbons (Eg: Chloroform, trichloethylene) Xylol Steam
VITON (Fluorocarbonated rubber)	Diluted & concentrated acids Oils Animal & vegetable greases Hydrocarbons	Limits: -10°C to +200°C Max for continuous use: 0°C to +180°C	Steam Ester Alkalis Solvents Ketones
SILICONE (Polyxiloxane rubber)	Food Beverage	Limits: -20°C to +200°C Max for continuous use: 0°C to +180°C	Steam Solvents Hydrocarbons Diluted concentrated acids Vegetable & animal greases
TEFLON (Polytetrafluoroethylene)	Solvents Corrosive products Ketones	Limits: -50°C to +200°C Max for continuous use: -20°C to +180°C	Fluids containing powders Alkalines Gaseous fluorides