

Eccentric Plug Valve - Series 601

Elastomer Selection

Elastomers available for Millcentric Valve

Natural rubber is also available.

Nitrile

A general purpose material sometimes referred to as BUNA-N with a -20°C to 100°C temperature range. Used on sewage, water, hydrocarbon and mineral oils.

EPDM

An excellent polymer for use on chilled water through to LP steam applications having a temperature range of -35°C to 90°C. Resistance to many acids, alkalis, detergents, phosphate esters, alcohols and glycols is an added benefit.

Neoprene

This versatile material shows outstanding resistance to abrasion and ozone. Chemical resistance to a wide range of petroleum base products and dilute acids and alkalis. Temperature range -20°C to 100°C.

Fluoroelastomer

Retention of mechanical properties at high temperature is an important feature of this elastomer: temperature range is -5°C to 145°C. It also has excellent resistance to oils, fuels, lubricants and most mineral acids and aromatic hydrocarbons. Note: Not for water or steam applications.

Elastomer Selection Chart

Service	Elastomer	Average Useful Temp. Range	Service	Elastomer	Average Useful Temp. Range	Service	Elastomer	Average Useful Temp. Range
Acetone	EPDM	-35°C to 90°C	Caustic Soda	EPDM	-35°C to 90°C	Oil, Animal	Nitrile	-20°C to 100°C
Air	EPDM	-35°C to 90°C	Cement Slurry	EPDM	-35°C to 90°C	Oil, Mobil Therm Light	Fluoroelastomer	-5°C to 145°C
Air w/Oil	Nitrile	-20°C to 100°C	Copper Sulphate	EPDM	-35°C to 90°C	Oil, Mobil Therm 600	Fluoroelastomer	-5°C to 145°C
Alcohol AMYL	EPDM	-35°C to 90°C	Creosote (Coal)	Nitrile	-20°C to 100°C	Oil, Mobil Therm 603	Nitrile	-20°C to 100°C
Alcohol Aromatic	Fluoroelastomer	-5°C to 145°C	Coal Slurry	Nitrile	-20°C to 100°C	Oil, Lubricating	Nitrile	-20°C to 100°C
Alcohol Butyl	Neoprene	-20°C to 100°C	Diesel Fuel No. 3	Nitrile	-20°C to 100°C	Oil, Vegetable	Nitrile	-20°C to 100°C
Alcohol Denatured	Nitrile	-20°C to 100°C	Diethylene Glycol	EPDM	-35°C to 90°C	Paint, Latex	Nitrile	-20°C to 100°C
Alcohol Ethyl	EPDM	-35°C to 90°C	Ethylene Glycol	EPDM	-35°C to 90°C	Phosphate Ester	EPDM	-35°C to 90°C
Alcohol Grain	Nitrile	-20°C to 100°C	Fatty Acid	Nitrile	-20°C to 100°C	Propane	Nitrile	-20°C to 100°C
Alcohol Isopropyl	Neoprene	-20°C to 100°C	Fuel Oil No. 2	Nitrile	-20°C to 100°C	Rape Seed Oil	EPDM	-35°C to 90°C
Alcohol Methyl	EPDM	-35°C to 90°C	Fertilizer Liquid H4N2O2	EPDM	-35°C to 90°C	Sewage with Oils	Nitrile	-20°C to 100°C
Ammonia Anhydrous	Neoprene	-20°C to 100°C	Gasoline Keg	Nitrile	-20°C to 100°C	Sodium Hydroxide 20%	EPDM	-35°C to 90°C
Ammonium Nitrate	EPDM	-35°C to 90°C	Gas Natural	Nitrile	-20°C to 100°C	Starch	EPDM	-35°C to 90°C
Ammonia, water	EPDM	-35°C to 90°C	Glue, Animal	Nitrile	-20°C to 100°C	Steam to 250°F	EPDM	-35°C to 90°C
Animal Fats	Nitrile	-20°C to 100°C	Green Liquor	EPDM	-35°C to 90°C	Stoddard, Solvent	Nitrile	-20°C to 100°C
Black Liquor	EPDM	-35°C to 90°C	Hydraulic Oil (Petro)	Nitrile	-20°C to 100°C	Sulphuric Acid 10% 50%	Neoprene	-20°C to 100°C
Blast Furnace Gas	Neoprene	-20°C to 100°C	Hydrogen	Nitrile	-20°C to 100°C	Sulphuric Acid 100%	Fluoroelastomer	-5°C to 145°C
Butane	Nitrile	-20°C to 100°C	JF4, JP5	Fluoroelastomer	-5°C to 145°C	Trichloroethylene Dry	Fluoroelastomer	-5°C to 145°C
Bunker Oil "C"	Nitrile	-20°C to 100°C	Kerosene	Nitrile	-20°C to 100°C	Triethanol Amine	EPDM	-35°C to 90°C
Calcium Chloride	EPDM	-35°C to 90°C	Ketone	EPDM	-35°C to 90°C	Varnish	Fluoroelastomer	-5°C to 145°C
Carbon Dioxide	EPDM	-35°C to 90°C	Lime Slurry	EPDM	-35°C to 90°C	Water, Fresh	EPDM	-35°C to 90°C
Carbon Monoxide (Cold)	Neoprene	-20°C to 100°C	Methane	Nitrile	-20°C to 100°C	Water, Salt	EPDM	-35°C to 90°C
Carbon Monoxide (Hot)	Fluoroelastomer	-5°C to 145°C	Methyl Ethyl Ketone	EPDM	-35°C to 90°C	Xylene	Fluoroelastomer	-5°C to 145°C
Carbon Tetrachloride	Fluoroelastomer	-5°C to 145°C	Naptha (Berzin)	Nitrile	-20°C to 100°C			