



FURROW PUMP

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LMI MATERIAL TEMPERATURE LIMITATIONS

Just as we deal with chemical compatibility issues when selecting a metering pump, we also need to be aware that each material we use has a temperature limit, as well. To begin, I will give a brief description of each material, followed by a table of uses and temperatures.

Acrylic	Transparent thermoplastic polymeric acrylonitrile resin
Buna-N	Synthetic rubber copolymer of acrylonitrile and butadiene
CPVC	Chlorinated polyvinyl chloride
EPDM	Ethylene propylene diene synthetic rubber
Hastelloy C	Corrosion resistant nickel/molybdenum/chromium alloy
Hypalon	Chlorosulfonated polyethylene
Polyethylene	Polymerized ethylene resin
Polyprel	Elastomeric copolymer of PTFE and propylene (Aflas)
Polypropylene	Thermoplastic polymer of propylene
PTFE	Polytetrafluoroethylene, synthetic fluoropolymer (Teflon)
PVC	A family of organic vinyl chloride polymers
PVDF	Carbon fiber reinforced polyvinylidene fluoride (Kynar)
Stainless Steel	Corrosion resistant steel with at least an 11% chromium content
Viton	Synthetic rubber hexafluoropropylene-vinylidene fluoride copolymer

SOLUTION TEMPERATURE MAXIMUM @ 100 PSI

Material	Use Example	Temperature	
		Degrees F	Degrees C
Acrylic	Pump Head	140	60
Buna-N	Gaskets, Corp Stop	220	104
CPVC	Pipe, Corp Stop	180	82
EPDM	Seals	225	107
Hastelloy C	Springs	250	121
Hypalon	Diaphragms, Seals	225	107
Polyethylene	Tubing	110	43
Polyprel (Aflas)	O-Rings, Seals	250	121
Polypropylene	Fittings, Pump Head	170	77
PTFE (Teflon)	Liquiframs, Seals	250	121
PVC	Fittings, Pump Head, Tubing	140	60
PVDF (Kynar)	Fittings, Pump Head	250	121
Stainless Steel	Fittings, Pump Head	250	121
Viton	Seals	225	107