Information **Sheet**

LiquiPro® 3-Function Valve

For 300/400 Series Cartridge Valve Type Liquid Ends

Priming

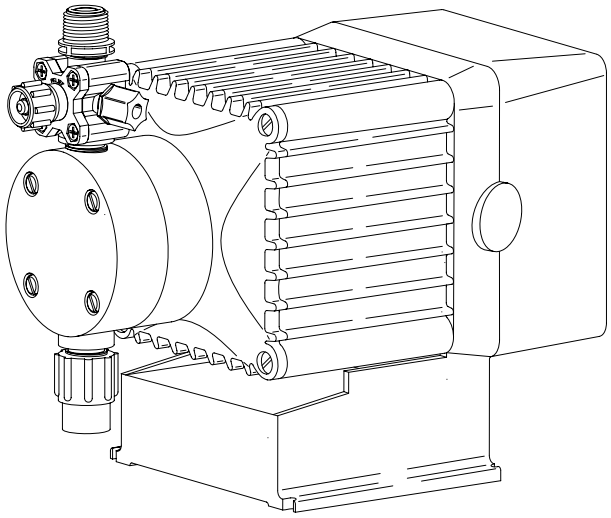
Priming the pump can be accomplished by a simple 1/4 turn of the Relief Knob. Prime your LMI pump while it is connected to a pressurized line.

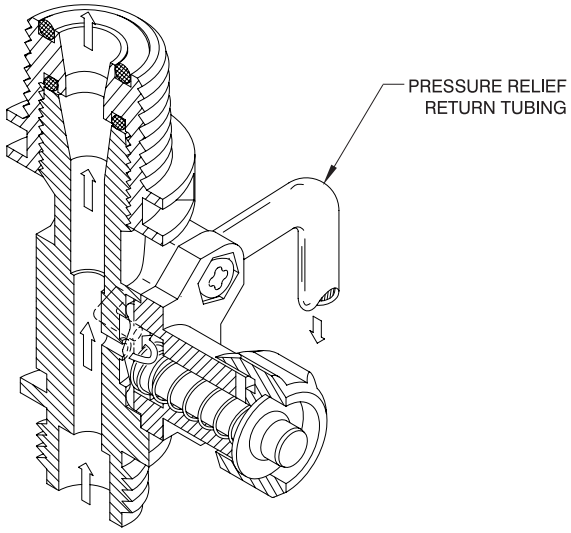
Pressure Relief

Provides protection against excessive system pressure.

Line Depressurization

By opening the Relief Valve, the discharge line will depressurize without having to loosen or disconnect discharge tubing.





Valve Number	Wetted Materials		
	Body	Diaphragm	"O" Ring
49146	PVDF	Fluorofilm™	Polyprel®
49147	PVDF		PTFE
49148	PVC		Polyprel®

Part numbers are for 300/400 Series LiquiPro® cartridge valve type Liquid Ends only.

Valves supplied with a pump include connections as specified by pump model number. All valves sold as separate accessories are supplied with 1/2" NPT connection. For tubing connection, order one of the following kits:

Connection Kits

Kit #	LMI Tubing Size	Contents
77378	3 x 6 mm	1 Knob, 1 Ferrule
77379	6 x 8 mm	1 Knob, 1 Ferrule
77380	9 x 12 mm	Insert, 1 Sleeve
77382	1/4"	1 Knob, 1 Ferrule
77383	3/8"	1 Knob, 1 Ferrule
77384	1/2"	Insert, 1 Sleeve

LMI MILTON ROY

201 Ivyland Road
Ivyland, PA 18974 USA
TEL: 215-293-0401
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http://www.lmipumps.com

Instruction **Sheet**

LiquiPro® 3-Function Valve

For 300/400 Series Cartridge Valve Type Liquid Ends

METHOD OF OPERATION

A. PRIMING

1. Connect return tubing to (relief) port.
2. Route tubing to solution tank. Be sure the end of tubing is above the maximum solution level (Do not submerge tubing in solution).
3. Turn Relief Knob 1/4 turn to open.
4. Set pump at 100% speed and 100% stroke. Start pump. When solution begins to flow through translucent return tubing, the pump is primed.
5. Stop pump. Turn Relief Knob 1/4 turn to close.

NOTE:

*(a) Pump is normally self-priming if suction lift is no more than 5 ft (1.5 m), valves in the pump are wet with water (pump is shipped from factory with water in pump head) and the above steps (**A1 through A4**) are followed.*

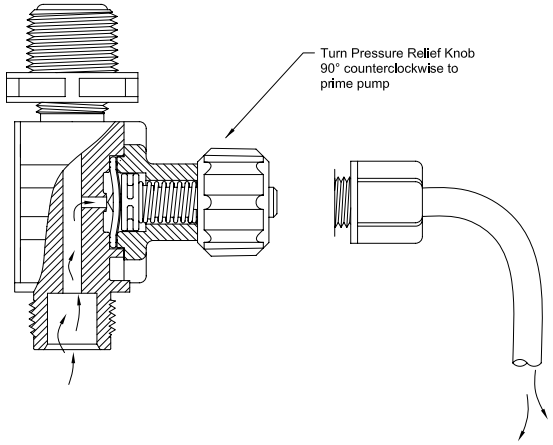
*(b) If the pump does not self prime, remove 3-function valve and Discharge Cartridge Valve, and pour water or solution slowly into discharge port until it is filled. Replace Cartridge Valve, and follow steps **A1 through A4** thereafter.*

B. DEPRESSURIZING DISCHARGE LINE

1. It is possible to depressurize discharge line and pump head without removal of tubing or loosening of fittings.

Be sure injection check valve is properly installed and is operating. If a gate valve or globe has been installed downstream of the injection check valve, it should be closed. Be certain return tubing is connected and run to solution supply tank.

2. Turn Relief Knob 1/4 turn to open.



3. Solution should exit the return tubing. The discharge line is now depressurized.
4. If injection check valve is of higher elevation than pump head, disconnecting tubing at injection check valve end will allow air to enter and cause solution to drain back to tank.