







## D. PRIMING WITH ROYTRONIC® 4-FUNCTION VALVE

1. Connect pressure relief tubing to the pressure relief port (Figure 3). Route tubing to the solution tank. This tubing must not be submerged in the solution.

When all precautionary steps have been taken, the pump is mounted, and the tubing is securely attached, you may now start priming the pump.

2. Turn black knob about 1/8 turn CCW to stop point to open bypass port.
3. Set pump at 100% speed and 100% stroke length. Start pump. When fluid has been flowing through the bypass port tubing for 10-20 seconds, the pump is primed.
4. Stop pump and return black knob to normal position.

**Note:** The pumps are normally self priming if suction lift is less than 5 feet (1.5 meters), check valves are wet (there is usually water in the pump head when shipped from the factory), and the steps above are followed. If the pump does not self prime, you can choose one of 2 ways to help prime:

1. Remove the 4-function valve and cartridges and slowly pour water or solution into the pump head until it is filled. Replace cartridges and 4-function valve and repeat steps above.
2. Temporarily improve suction conditions by pumping from a container closer to or above pump.

## E. PRIMING WITH FastPrime™ VALVE

1. Connect the 3/8" outer diameter clear vinyl tubing provided with the pump to the FastPrime™ Valve barbed nozzle (Figure 3). Route tubing to the solution tank. This tubing must not be submerged in the solution.

When all precautionary steps have been taken, the pump is mounted, and the tubing is securely attached, you may now start priming the pump.

2. Plug in or switch the pump on.
3. While the pump is running, set at 100% speed and 100% stroke length.
4. Turn The FastPrime™ knob 1 to 2 turns counter-clockwise ↺.
5. The suction tubing should begin to fill with solution from the tank.
6. A small amount of solution will begin to discharge out the return line of the FastPrime™ valve. Once this happens, turn the knob clockwise ↻ until hand tight and **SHUT THE PUMP OFF.**
7. The pump is now primed.

## F. DEPRESSURIZING THE DISCHARGE LINE

**ALWAYS wear protective clothing, face shield, safety glasses and gloves when performing any maintenance or replacement on your pump.**

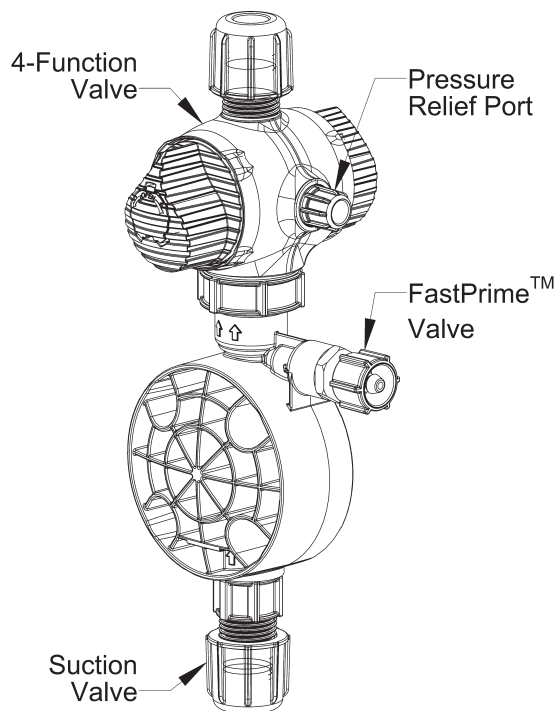
When preparing to maintain the pump or any component in the discharge line, the 4-function valve is used to depressurize the line. Be sure an injection check valve is properly installed and is operating, and that all tubing connections on the 4-function valve are secure.

**Be sure your relief tubing is connected to your pressure relief port on the 4-function valve and runs back to your solution drum or tank.**

1. Turn off the pump.
2. If any valves have been installed downstream of the pump, close them.
3. If the supply tank for the pump is higher than the pump head, fluid will flow through unless a suction line valve is closed.
4. Turn the black knob on the 4-function valve about 1/8 turn CCW to its open position. This relieves pressure between the pump and the 4-function valve.
5. To release line pressure, while the black knob is in the open position, turn the yellow knob and hold open until fluid flow through the bypass port stops.



**When tubing connections are loosened, chemical will drain from the line. Use appropriate safety precautions to avoid contact with chemical.**



**FIGURE 3**

**REFER TO YOUR ELECTRONIC METERING PUMP INSTRUCTION MANUAL FOR ADDITIONAL INSTRUCTIONS AND PRECAUTIONS.** You may contact your local LMI Distributor for additional information or visit LMI on the web at [www.lmipumps.com](http://www.lmipumps.com)