

Liquid End Sheet

LE-72SL

When pumping solutions, make certain that all tubing is securely attached to the fittings. It is recommended that tubing or pipe lines be shielded to prevent possible injury in case of rupture or accidental damage. Always wear protective clothing and face shield when working on or near your metering pump.

Note: See parts list for materials of construction

A. INSTALLING INJECTION CHECK VALVE

1. The purpose of the injection check valve is to prevent backflow from the treated line.
2. A 1/2" NPT female fitting with sufficient depth will accept the injection check valve.
3. To insure correct seating of the ball inside the injection check valve, the injection check valve should be installed upwards (vertically) into bottom of the pipe.

B. CONNECTING DISCHARGE TUBING

NOTE:

Cut tubing to length needed for discharge line.

1. Route tubing from the injection check valve to the metering pump, making sure it does not touch hot or sharp surfaces, or is bent so sharply that it kinks.
2. Slide the small end of the coupling nut onto tubing.
3. Push tubing on the valve housing nozzle so that tubing flares out and butts up against valve housing and will not go any further.
4. Slide the coupling nut to the threads and engage. While pushing the tubing on to the valve housing nozzle, tighten the coupling nut by hand until tubing is held securely in place.

**Excessive force will crack or distort fittings.
DO NOT USE PIPE WRENCH.**

C. CONNECTING SUCTION TUBING

1. Cut suction tubing to a length so that the foot valve hangs just above the bottom of the solution container. Maximum recommended vertical suction lift is 5 ft (1.5 m).
2. Follow same procedure in connecting suction tubing to suction valve and foot valve (see **B. Connecting Discharge Tubing**).

D. PRIMING

1. Connect pressure relief tubing to pressure relief port on the four function valve.
2. Route tubing to solution reservoir and anchor with a plastic tie. Do not submerge tubing in solution.
3. Start pump. Set at 80% speed and 100% stroke.
4. Pull on Pressure Relief knob (red or black knob), holding knob out until solution is visible through translucent return tubing.
5. The pump is now primed.

NOTE:

- (a) Pump is normally self-priming if suction lift is not 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 (**D. Priming**) are followed.
- (b) If the pump does not self prime, remove discharge valve housing and ball and pour water or solution slowly into discharge port until head is filled. Follow step **D. Priming** thereafter.

E. DEPRESSURIZING DISCHARGE LINE

1. It is possible to depressurize the 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 injection check valve, it should be closed. Be certain relief tubing from the four function valve is connected and run to solution reservoir.

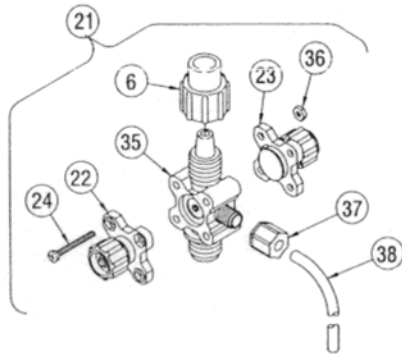
2. Pull on both anti-syphon and relief knobs.
3. The discharge line is now depressurized.
4. If injection check valve is of higher elevation than pump head, disconnecting tubing at injection check valve end will allow air to enter and cause solution to drain back to tank.



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Replaces same of A 3/85
1285.B 3/97



Note: Threaded connections into pump head are 3/4" - 16 straight threads. **DO NOT USE TEFLON TAPE.** These joints are sealed by seal ring valve seats (item 4 on exploded view).

KEY NO.	PART NO.	DESCRIPTION	QTY LE-72SL
2	10339	Spring, PVDF Coated	1
3	10338	Ball, Ceramic .375"	4
4	29443	Seal Ring, Polyprel	4
5	10492	Valve Seat, Gray PVC	2
6	10411	Coupling Nut, Gray PVC	4
7	10142-16	Tubing Polyethylene .5" OD	1
8	10493	Valve Housing, Gray, PVC	1
9	10340	Screw, 10-24 x 3/4" S.S.	4
10	31420	Liquifram, 1.8 SI Co-Polymer	1
11	10204	Head, Gray PVC	1
13	10978	Foot Valve Seat	1
14	10123	Strainer, White Polypropylene	1
15	27615	Injection Check/Back Pressure Valve Asm.	1
17	27612	Suction Valve Assembly	1
18	27613	Foot Valve Assembly	1
19	28924	Head Assembly	1
21	27043	Anti-Syphon/Pressure Release Valve Asm.	1
22	28447	Pressure Release Cap Asm.	1
23	27045	Anti-Syphon Cap Asm.	1
24	25627	Screw, 6-32 x 1 1/4" S.S.	1
26	27352	Flapper, Viton Yellow Dot	1
27	26841	Injector Fitting, PVC or Polypropylene	1
35	26856	Valve Body	1
36	25628	Nut, 6-32 Hex S.S.	4
37	25631	Nut, Ferrule	1
38	25636-10	Tubing, Polyethylene .250" OD x 170" ID	1
39	32293	Suction Tubing Straightener (not shown)	1

