Liquid End Sheet

LE-94

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 1/4" 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 PIPE

NOTE:

Corrosion resistant 1/4" Schedule 80 or Schedule 120 should be used. ***DO NOT USE SMALLER PIPE SIZES****.*

1. Discharge valve has a 1/4" NPT male outlet. A short 1/4" NPT union should be connected to both discharge and suction valves so that the metering pump may be removed without disturbing piping.
2. It is recommended that Teflon tape be used on tapered pipe threads so that there is a leakproof seal without overtightening of fittings.

Excessive force will crack or distort fittings. DO NOT OVERTIGHTEN.

C. CONNECTING SUCTION PIPE

1. Using the same size and material pipe as used on the discharge line, cut the suction pipe to length so that the foot valve is positioned just above the bottom of the solution container. Maximum recommended vertical suction lift is 5 ft (1.5 m).
2. It is recommended that Teflon tape be used on tapered pipe threads so that there is a leakproof seal without overtightening of fittings. Suction side leaks are invisible, but if present will cause pump to suck in air during each pump stroke.

D. PRIMING

1. Temporarily disconnect the union at the end of the discharge pipe run.

NOTE:

Stroke cannot be adjusted until pump is operating electrically. Turn lower knob while unit is stroking.

2. Start pump. Set at 80% speed and 100% stroke.
3. As soon as solution begins to enter the discharge pipe, stop the pump.
4. The pump is now primed.
5. Reconnect union at the end of the discharge pipe.

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.*

LMI
LIQUID METRONICS DIVISION
MILTON ROY
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8 Post Office Square
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TEL: (508) 263-9800
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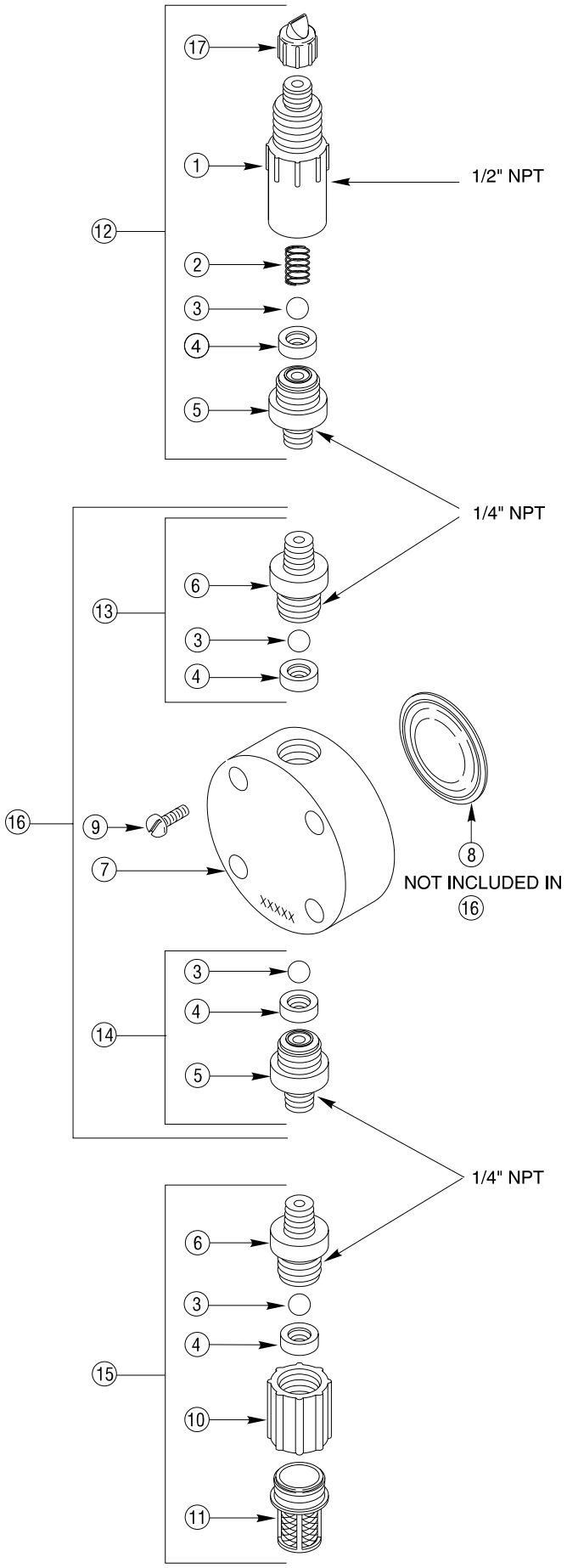

NOTE:
Threaded connections into pump head are 3/4"-16 UNF straight threads. **DO NOT USE TEFLON TAPE.** These joints are sealed by seal ring valve seats (item 4 on exploded view).

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	26841	Injector Fitting, PVDF	1
2	10339*	Spring, PVDF Coated	1
3	10338*	Ball, Ceramic .375	4
4	10407*	Seal Ring, Teflon	4
5	10492-1	Valve Seat, PVC	2
6	10493-1	Valve Housing, PVC	2
7	10213	Head, PVC 0.9	1
8	30917	Liquifram®, 0.9 SI, Fluorofilm	1
9	10340	Screw, 10-24 x 3/4" SS	4
10	10978	Foot Valve Seat , P.P.	1
11	10123	Strainer, Polypropylene	1
12	25029	Injection Check/Valve Assembly	1
13	25030	Discharge Valve Assembly	1
14	25031	Suction Valve Assembly	1
15	25032	Foot Valve Assembly	1
16	25033	Head Assembly, LE-94	1
17	27352	Flapper Valve	1

* Parts included in Spare Parts Kit No. SP-.U1