

LE-198 LE-198U

LIQUID HANDLING ASSEMBLIES

CAUTION

When pumping chemicals 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 when working on or near chemical metering pump.

NOTE: See parts list for materials of construction

A. INSTALLING INJECTION CHECK VALVE

1. The injection check valve should always be installed as close as possible to the point of chemical injection, at the very end of the tubing run.
2. Purpose of injection check valve is to prevent backflow from treated line.
3. A 1/2" NPT female fitting with sufficient depth will accept the injection check valve.
4. To insure correct seating of the ball inside the check valve, the injection check valve must be installed vertically upwards.

B. CONNECTING DISCHARGE TUBING

NOTE: Cut tubing to length needed for discharge line.

1. Route tubing from injection check valve to chemical metering pump making sure it does not touch hot surfaces, sharp surfaces, or is bent so sharply that it kinks.
2. Slide small end of coupling nut onto tubing.
3. Slide the clamp ring onto the tubing.
4. Insert tubing into discharge valve housing so that tubing butts up against valve housing and will not go any further.
5. Slide down the coupling nut until threads are engaged. Tighten coupling nut by hand, maintaining pressure on tubing towards valve housing until tubing is held securely in place.

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

7. Follow the same procedure for connecting tubing to injection valve.

C. CONNECTING SUCTION TUBING

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

D. PRIMING

1. Temporarily remove tubing from injection check valve and hold the end of tubing so it is above the level of the pump.
2. Set pump at 80% speed and 100% stroke. Start pump.
3. As soon as chemical is visible through translucent discharge tubing, just past the discharge valve, stop pump.
4. Pump is now primed.
5. Reconnect tubing to injection check valve.

NOTE:

(a) Pump is normally self-priming if suction lift is no more than 5 ft. (1.5m), valves in the pump are wet with water (pump is shipped from factory with water in pump head) and the above steps (D1 thru D5) are followed.

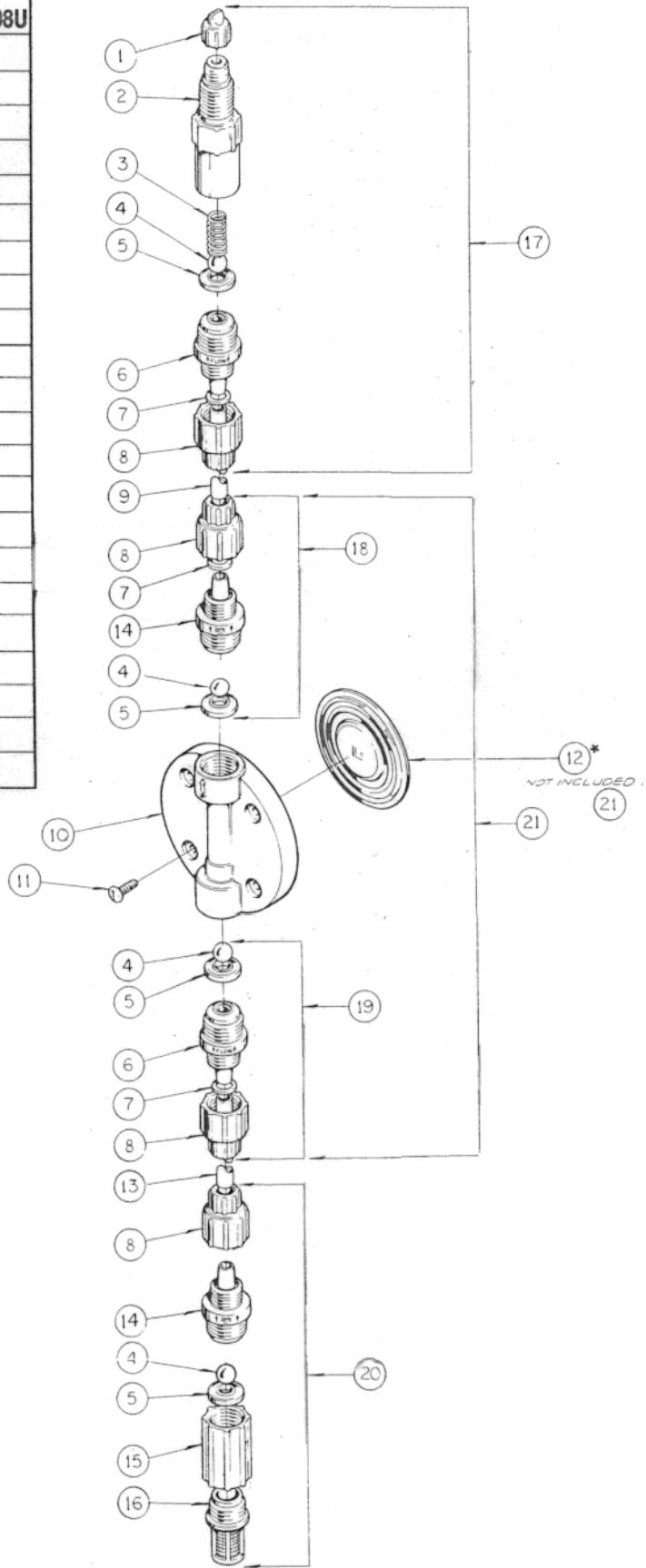
(b) If the pump does not self-prime, remove discharge valve housing and ball and pour water or chemical slowly into discharge port until head is filled. Follow steps D1 thru D5 thereafter.



LMI
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Key No.	Part No.	Description	Quantity	
			LE-198	LE-198U
1	27352	Flapper Valve, Flexoprene	1	1
2	26841	Injector Fitting, PVDF	1	1
3	10339*	Spring	1	1
4	10338*	Ball, Ceramic	4	4
5	29443*	Seal Ring, Polyprel	4	4
6	10292	Valve Seat	2	2
7	26136	Clamp Ring	3	3
8	10299	Coupling Nut	4	4
9	10342-16	Tubing, .375 OD PE	1	
	27342-16	Tubing, .375 OD PE Black		1
10	30913	Head, 0.9 SI PVC	1	1
11	10340	Screw	4	4
12	30917*	Liquifram, 0.9 SI Copolymer	1	1
14	10293	Valve Housing	1	1
15	10978	Foot Valve Seat	1	1
16	10123	Strainer, PP	1	1
17	27608	Injection Valve Asm.	1	1
18	27601	Discharge Valve Asm.	1	1
19	27602	Suction Valve Asm.	1	1
20	27603	Foot Valve Asm.	1	1
21	30943	Head Asm., LE-198, 198U	1	1
	10322	Weight, Ceramic (not shown)	1	1



* Parts included in Spare Parts Kit SP-198