

LE PM

LIQUID HANDLING ASSEMBLY

For Series A & B

with 0.9 Liquifram

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.

MATERIAL

Fittings	Polypropylene
Seal Rings	EPDM
Balls	Ceramic
Head	Polypropylene
Liquifram	EPDM
Suction	.375" OD Polyethylene
Discharge	.375" OD Polyethylene

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/anti-syphon valve is to prevent backflow from *treated line* and to prevent syphoning or overpumping of chemical.
3. A 1/2" NPT female fitting with sufficient depth will accept the injection/anti-syphon valve.
4. In order to insure correct seating of the ball inside the check valve, the injection/anti-syphon valve should be installed upwards.

B. CONNECTING DISCHARGE TUBING

Note: Cut tubing to length needed for discharge line making sure sufficient amount is left for suction 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 slip ring onto tubing.
4. Push tubing over tapered nozzle of discharge valve housing so that tubing flares out and reaches the shoulder. (If tubing is stiff from cold, dip end in hot water.)
5. Slide down the coupling nut until threads are engaged. Tighten by hand until tubing is held securely in place.

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

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

C. CONNECTING SUCTION TUBING

1. Cut suction tubing to a length such 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/anti-syphon valve and hold the end of tubing so it is above pump level.
2. Set pump at maximum speed and 100% stroke and start pump.
3. As soon as chemical is visible through translucent discharge tubing just past the discharge valve, stop the pump.
4. Pump is now primed.
5. Reconnect tubing to injection/anti-syphon 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 D3) 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 it is filled. Follow steps D2 through D5 thereafter.



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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 (Ref. No. 4 on exploded view).

1. Maximum pump pressure rating is reduced by 25 psi (1.7 bar) with anti-syphon spring installed.
2. Do not remove anti-syphon spring if pressure at injection point is less than 20 psi (1.4 bar).

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Ref No.	Part No.	Description	Quantity
1	10394	Injector Fitting	1
2	10339*	Spring	1
3	10338*	Ball, Ceramic	4
4	26507*	Seal Ring, EPDM	4
5	10392	Valve Seat, Ivory, Polypropylene	2
6	10399	Coupling Nut, Ivory, Polypropylene	4
7	10342-16	Tubing, Polyethylene, .375" OD	1
8	10393	Valve Housing, Ivory, Polypropylene	2
9	10313M	Head, Ivory, Polypropylene	1
10	27102*	Liquifram, 0.9 SI EPDM	1
11	10340	Screw, 10-24 x 3/4" S.S.	4
12	10322	Weight, Ceramic	1
13	10978	Foot Valve Seat, black Polypropylene	1
14	10123	Strainer, white Polypropylene	1
15	26309	Injection/Anti-Syphon Valve Assy	1
16	26310	Discharge Valve Assembly	1
17	26308	Suction Valve Assembly	1
18	26312	Foot Valve Assembly	1
19	26311	Head Assembly, LE PM	1
20	26136	Slip Ring	3

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

