

LIQUID HANDLING ASSEMBLIES

LE 75P For Series A, B & D with 1.8 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.

MATERIALS

| | |
|------------|---------------|
| Fittings | Polypropylene |
| Seal Rings | Teflon |
| Balls | Ceramic |
| Head | Polypropylene |
| Liquifram | Teflon Face |
| Suction | 1/4" NPT |
| Discharge | 1/4" NPT |

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 piping 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.

B. CONNECTING DISCHARGE PIPE

Note: Corrosion resistant, 1/4" Schedule 80 pipe should be used. Do not use 1/8" pipe.

1. Discharge valve has 1/4" NPT male outlet. A 1/4" union should be connected to both discharge and suction valves so that chemical metering pump may be removed without disturbing piping.

It is recommended that Teflon tape be used on tapered pipe threads so that there is a leakproof seal without overtightening of fittings.

C. CONNECTING SUCTION PIPE

1. Using the same size and material pipe as used on discharge line, cut suction pipe to required length.

2. Use of Teflon tape on tapered pipe threads is again highly recommended, to be sure connections are leakproof. Suction side leaks are invisible but if a leak is present pump will suck in air during each suction stroke.
3. Maximum recommended vertical suction lift is 5 ft. (1.5m).

D. PRIMING

1. Temporarily loosen the union on top of discharge valve.
2. Set pump at near maximum (80%) speed and 100% stroke and start pump.

"B" and "D" series stroke cannot be adjusted until pump is operating electrically. Turn lower knob while unit is stroking.

3. As soon as chemical begins to leak at the union on top of discharge valve, stop the pump.
4. Pump is now primed.
5. Tighten union on top of discharge valve.



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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).

LE 75P

| Key No. | Part No. | Description | Quantity |
|---------|----------|--------------------------------------|----------|
| 1 | 10394 | Injector Fitting | 1 |
| 2 | 10339* | Spring, Teflon PFA coated | 1 |
| 3 | 10338* | Ball, Ceramic | 4 |
| 4 | 10407* | Seal Ring, Teflon | 4 |
| 5 | 10792-1 | Valve Seat, ivory Polypropylene | 2 |
| 8 | 10793-1 | Valve Housing, ivory Polypropylene | 2 |
| 9 | 10304 | Head, 1.8 SI, ivory, Polypropylene | 1 |
| 10 | 10305* | Liquifram, 1.8 SI Teflon Face | 1 |
| 11 | 10340 | Screw, 10-24 x 3/4" S.S. | 4 |
| 13 | 10978 | Foot Valve Seat, black Polypropylene | 1 |
| 14 | 10123 | Strainer, white Polypropylene | 1 |

*Parts included in Spare Parts Kit No. SP-U2.

Use Teflon tape only at this point.

