

LIQUID HANDLING ASSEMBLIES

LE-20PMX LE-76PMX LE-86PMX

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	Teflon
Balls	Stainless Steel
Head	Acrylic
Liquifram	Teflon Face
Springs	Stainless Steel
Suction	.938" O.D. Vinyl

A. FLOODED SUCTION (PREFERRED METHOD)

1. Mount pump 12" above floor with head extending beyond mounting so suction tubing curves gently away from pump to prevent kinking.
2. Install $\frac{1}{2}$ " or $\frac{3}{4}$ " shut off valve, with at least $\frac{3}{4}$ " clear way through valve, into reservoir. This is necessary to stop flow from reservoir while servicing pump.
3. Install barbed connector (one of two supplied) into valve. Attach 15/16" O.D. Vinyl tubing to barbed connector; secure with hose clamp provided (use shortest length of suction tubing practical).
4. Connect other end of suction tubing to barbed suction fitting at pump and secure with hose clamp provided.

B. SUCTION LIFT (PUMP SITTING ON BARREL: MAXIMUM LIFT 3.5 FT.)

1. Connect suction tubing to barbed suction fitting on pump. Secure with hose clamp provided.
2. Cut tubing so it will only reach within 1" of bottom of barrel.

3. If tubing curl is a problem fabricate 1" PVC pipe as tube straightener (pipe should be slightly longer than depth of barrel for ease of removal).
4. Place tubing straightener over suction tubing and lower into barrel.

C. PRIMING

1. Pump is shipped pre-primed with water. If pump has lost its water prime, pre-prime with water using 100% stroke and 50% speed setting.
2. Make final installation except for injection connection at far end of tubing.
3. Open valve in suction line if installed.
4. Set pump at 100% stroke length and 50% speed. Start pump.
5. After all air is expelled from head, connect tubing at far end to connector. Open valve at injection point if installed. Adjust discharge rate to desired amount using longest stroke and slowest speed practical.
6. If difficulty is experienced on initial prime apply vacuum to discharge tubing by suitable means, such as hand suction pump. This should not reoccur after pump is primed with a viscous liquid.



LIQUID METRONICS INCORPORATED

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NOTE:
Threaded connections into pump head are 1"-12 straight threads. Do not use Teflon tape. These joints are sealed by seal ring valve seats (Ref. 6 on exploded view)

KEY NO.	FOR LE-	PART NO.	DESCRIPTION	Qty.
1	20PMX, 76PMX, 86PMX	30069	Injection Check Valve Asm.	1
2	20PMX, 76PMX, 86PMX	25108	Injector Fitting	1
4	20PMX, 76PMX, 86PMX	25042	Ball, SS	3
6	20PMX, 76PMX, 86PMX	10128	Seal Ring, Bypalon	3
7	20PMX, 76PMX, 86PMX	25106	Valve Seat, Polypropylene	1
8	20PMX, 76PMX, 86PMX	10411	Coupling Nut, Polypropylene	2
9	20PMX, 76PMX, 86PMX	10142-10	Tubing, Polyethylene, .5" O.D.	1
10	20PMX	30077	Head Asm, LE-20PMX	1
10	76PMX	30070	Head Asm, LE-76PMX	1
10	86PMX	30074	Head Asm, LE-86PMX	1
11	20PMX, 76PMX, 86PMX	30072	Discharge Valve Asm.	1
12	20PMX, 76PMX, 86PMX	25199	Valve Housing PP	1
13	20PMX, 76PMX, 86PMX	30071	Suction Valve Asm.	1
14	20PMX, 76PMX, 86PMX	10340	Screw, 10-24 x 3/4" S.S.	4
15	20PMX	10524-3	Head, 3.0	1
15	76PMX	25540	Head, 1.8	1
15	86PMX	25550	Head, 0.9	1
16	20PMX	25319	Liquifram, 3.0	1
16	76PMX	10305	Liquifram, 1.8	1
16	86PMX	10302	Liquifram, 0.9	1
17	20PMX, 76PMX, 86PMX	25558	Spring, SS	2
18	20PMX, 76PMX, 86PMX	25649	Valve Seat, Polypropylene, Barbed	1
19	20PMX, 76PMX, 86PMX	25651-3.5	Tubing, Vinyl, .938" O.D.	1
20	20PMX, 76PMX, 86PMX	25650	Connector, Barbed, 1/2" NPT	1
21	20PMX, 76PMX, 86PMX	25652	Hose Clamp	2
22	20PMX, 76PMX, 86PMX	26558	Plug	2

