

LE-20PB LE-66PB LE-76PB LE-86PB

LIQUID HANDLING ASSEMBLY

CAUTION

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 metering pump.

NOTE: See parts list for materials of construction

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 linking.
2. Install 1/2" or 3/4" shut off valve, with at least 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.

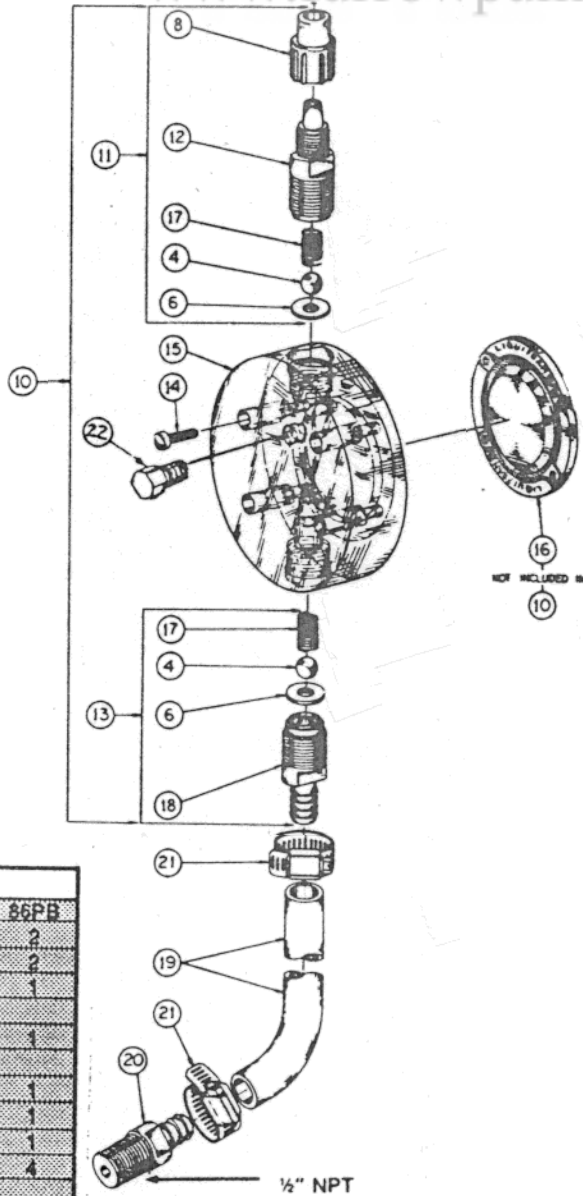


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NOTE:

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



Key No.	Part No.	Description	Quantity			
			20PB	66PB	76PB	86PB
4	25042*	Ball, Stainless Steel	2	2	2	2
6	25128*	Seal Ring, Teflon	2	2	2	2
8	10411	Coupling Nut, Polypropylene	1	1	1	1
10	26475	Head Assembly		1	1	
	26476	Head Assembly				1
	26763	Head Assembly	1			
11	27052	Discharge Valve Assembly	1	1	1	1
12	25173	Valve Housing, Polypropylene	1	1	1	1
13	27053	Suction Valve Assembly	1	1	1	1
14	10340	Screw, 10-24 x 3/4" S.S.	4	4	4	4
15	10524-4	Head, 3.0 High Viscosity	1			
	25540-1	Head, 1.8 High Vis. 1/4" NPT hole		1	1	
	25550-1	Head, 0.9 High Vis. 1/4" NPT hole				1
16	25319*	Liquifram, 3.0 SI Teflon Face	1			
	31420*	Liquifram, 1.8 SI TFE Copolymer		1		
	10305*	Liquifram, 1.8 SI Teflon Face			1	
34917	10305*	Liquifram, 0.9 SI Teflon Face				1
17	25558*	Spring, Stainless Steel	2	2	2	2
18	25649	Valve Seat, Polypropylene, Barbed	1	1	1	1
19	25651-035	Tubing, Vinyl, .938" O.D.	1	1	1	1
20	25650	Connector, Barbed, 1/2" NPT	1	1	1	1
21	25652	Hose Clamp	2	2	2	2
22	26558	Pipe Plug	1	1	1	1