For more information, please call 877-742-2878 or
visit *www.burtprocess.com*

Liquid End Sheet

LE-27

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 your 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 piping run.
2. Purpose of injection check valve is to prevent backflow from *treated line* and to prevent syphoning or over pumping of chemical.
3. A ½" NPT female fitting with sufficient depth will accept the injection check valve.

B. CONNECTING DISCHARGE PIPE

NOTE: *Corrosion resistant ½" Schedule 80 or Schedule 120 should be used. DO NOT USE ¼" PIPE.*

1. Discharge valve has ½" NPT male outlet. A ½" NPT union should be connected to both discharge and suction valves so that chemical metering pump may be removed without disturbing piping.
2. It is recommended that Teflon® tape be used on tapered pipe threads so that there is a leakproof seal without overtightening of fittings.

Excessive force will crack or distort fittings.
DO NOT OVERTIGHTEN.

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 leak-proof. 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 (1.5 m).

D. PRIMING

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

NOTE: *Series C stroke cannot be adjusted until pump is operating electrically. Turn lower knob while unit is stroking.*

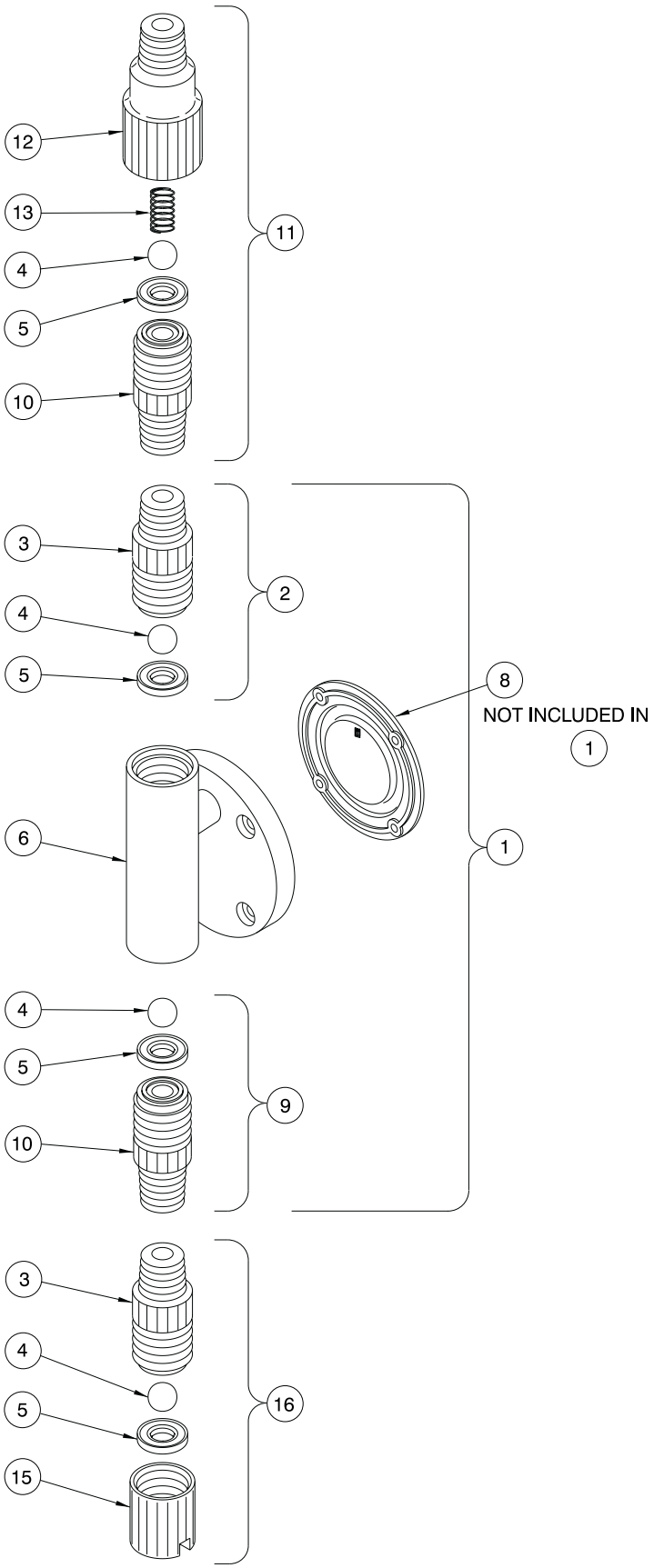
3. As soon as chemical begins to leak at the union on top of discharge valve, stop the pump.
4. Pump is now primed.
5. Tighten union on top of discharge valve.

LMI
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Replaces same of Rev. D 11/94
1526.D 2/98

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 (item 5 on exploded view).



KEY NO.	PART NO.	DESCRIPTION	QTY.
1	27710	Head Assembly, LE-27	1
2	27530	Discharge Valve Assembly	1
3	26928	Valve Housing, 316 S.S., 1/2" NPT	1(2)
4	25042*	Ball, 316 S.S., .500"	2(4)
5	25128*	Seal Ring, PTFE .500"	2(4)
6	27394	Head, 316 S.S., 3.0Sl	1
8	31419*	Liquifram™, PTFE Face, 3.0 Sl	1
9	27531	Suction Valve Assembly	1
10	26926	Valve Seat, 316 S.S., 1/2" NPT	1(2)
11	27534	Inj. Check/Back Press. Valve Asm.**	(1)
12	26941	Injector Fitting**	(1)
13	10339*	Spring** PVDF	(1)
15	26951	Valve Seat, Foot**	(1)
16	27535	Foot Valve Assembly**	(1)
---	10340+	Screw, 10-24 x 3/4" PH S.S. (not shown)	4

** Optional Extra
( ) Quantities with Optional Part No. 27534 & 27535
* Parts included in Spare Parts Kit No. SP-27
\+ For use with LMI Series M Metering Pump, order Part No. 30856

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