Liquid End Sheet

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. CONNECTING SUCTION TUBING

NOTE: Cut tubing to length needed for suction line.

- 1. Cut suction tubing to a length so that the foot valve hangs just above the bottom of the solution container. Maximum recommended vertical suction lift is 5 ft (1.5m).
- 2. Slide the small end of the coupling nut onto tubing.
- 3. Slide the long, straight end of the ferrule onto tubing such that tubing exits at the cone shaped end of the ferrule.
- 4. Insert tubing into the valve so that tubing butts up against valve and will not go any further.
- 5 Slide ferrule down so that the cone shaped end fits snugly into valve.
- 6. Slide the coupling nut to the threads and engage. While pushing the tubing into valve, tighten the coupling nut by hand until tubing is held securely in place.

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

B. PRIMING

- 1. Start pump. Set at 80% speed and 100% stroke.
- 2. As soon as solution is visible through the discharge valve, stop the pump.
- 3. The pump is now primed.
- 4. Connect tubing to the injection point.

Note:

- (a) Pump is normally self-priming if suction lift is not 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 (**D. Priming**) are followed.
- (b) If the pump does not self prime, remove discharge valve housing and ball and pour water or solution slowly into discharge port until head is filled. Follow step **D**. **Priming** thereafter.



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NOTE:

Threaded connections into pump head are 3/4"-16 UNF straight threads. **DO NOT USE TEFLON TAPE**. These joints are sealed by seal ring valve seats.

KEY NO.	PART NO.	DESCRIPTION	QTY.
4	10338	Ball, Ceramic .375	3
5	29443	Seal Ring, Polyprel	3
6	28664	Valve Seat, GFR Polypropylene	1
8	10299	Coupling Nut	2
10	29610	Head, 0.9SI GFR Polypropylene	1
11	10340	Screw, 10-24 x 3/4" S.S.	4
12	30917	Liquifram, 0.9 Co-Polymer	1
14	28665	Valve Housing, GFR Polypropylene	1
15	10978	Foot Valve Seat	1
16	10123	Strainer, Polypropylene	1
18	36934	Discharge Valve Assembly	1
19	28004	Suction Valve Assembly	1
20	28002	Foot Valve Assembly	1
21	36933	Head Asm. LE-190B	1
30	28663	Ferrule	2
31	10973-1	Valve Housing 1/4" NPT	1
	32293	Suction Tubing Straightener (not shown)	1
	10322	Ceramic Weight (not shown)	1



