For use on LMI Series A, and B chemical metering pumps.

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 pumps.

NUMBER 94
LIQUID HANDLING ASSEMBLY

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.

CAUTION

Do not operate pump using **94** *Liquid Handling Assembly without injection/anti-syphon valve properly installed if pressure at point of injection is less than 10 psi (0.7 Kg/cm²) otherwise overpumping and/or syphoning will occur.*

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 connection or tee 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 over-tightning 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.

CAUTION

"B" series stroke cannot be adjusted until pump is operating electrically. Push and 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. The pump is now primed.
5. Tighten union on top of discharge valve.

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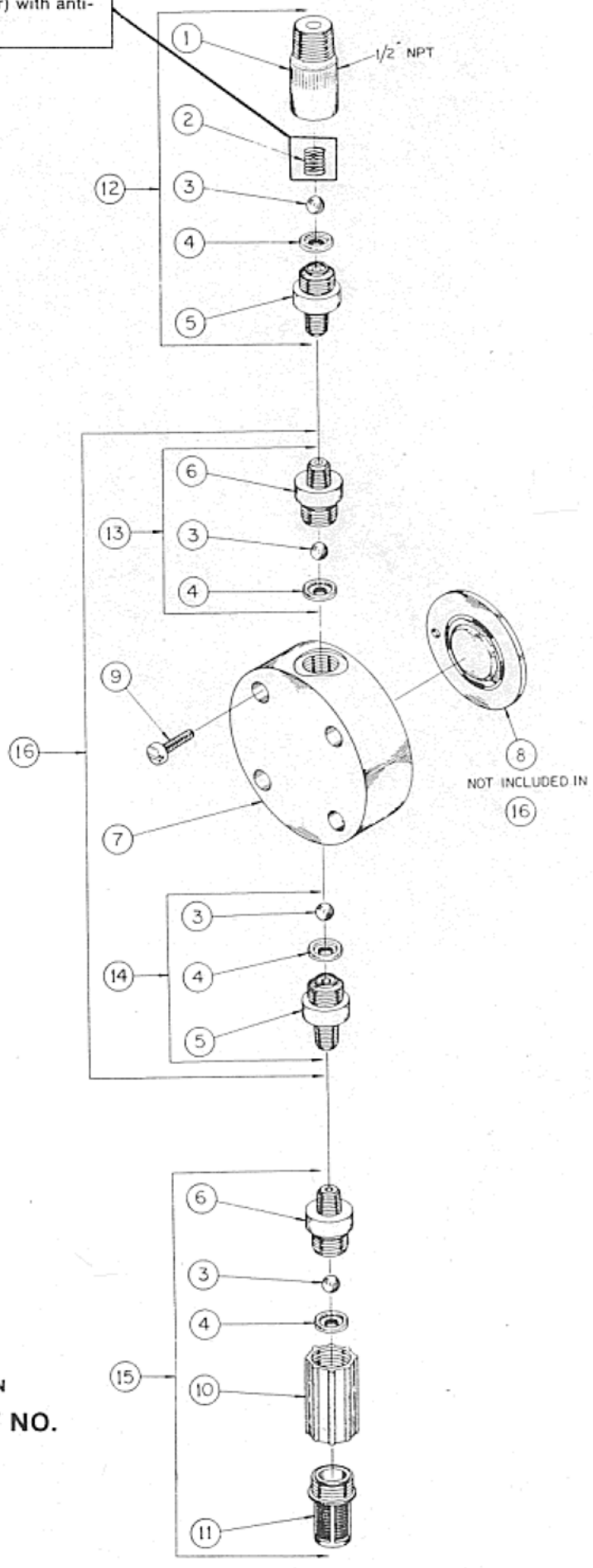
NOTE
Maximum pump pressure rating is reduced by 25 psi (1.7 bar) with anti-syphon spring installed.

PARTS LIST
NO. 94 LIQUID HANDLING ASSEMBLY

Key No.	Part No.	Description	Quantity
1	10297	Injector Fitting w/Viton Flapper	1
2	10339*	Spring, Teflon PFA coated	1
3	10338*	Ball, Ceramic	4
4	10207*	Seal Ring, black Viton	4
5	10492-1	Valve Seat, gray PVC	2
6	10493-1	Valve Housing, gray PVC	2
7	10213	Head, PVC	1
8	10302*	Liquifram, Teflon Face	1
9	10340	Screw, 10-24 x 3/4" S.S.	4
10	10978	Foot Valve Seat, black Polypropylene	1
11	10123	Strainer, white Polypropylene	1
12	25029	Injection/Anti-Syphon Valve Ass'y	1
13	25030	Discharge Valve Assembly	1
14	25031	Suction Valve Assembly	1
15	25032	Foot Valve Assembly	1
16	25033	Head Assembly, L.E. 94	1



*PARTS INCLUDED IN

SPARE PARTS KIT NO.

10500-94