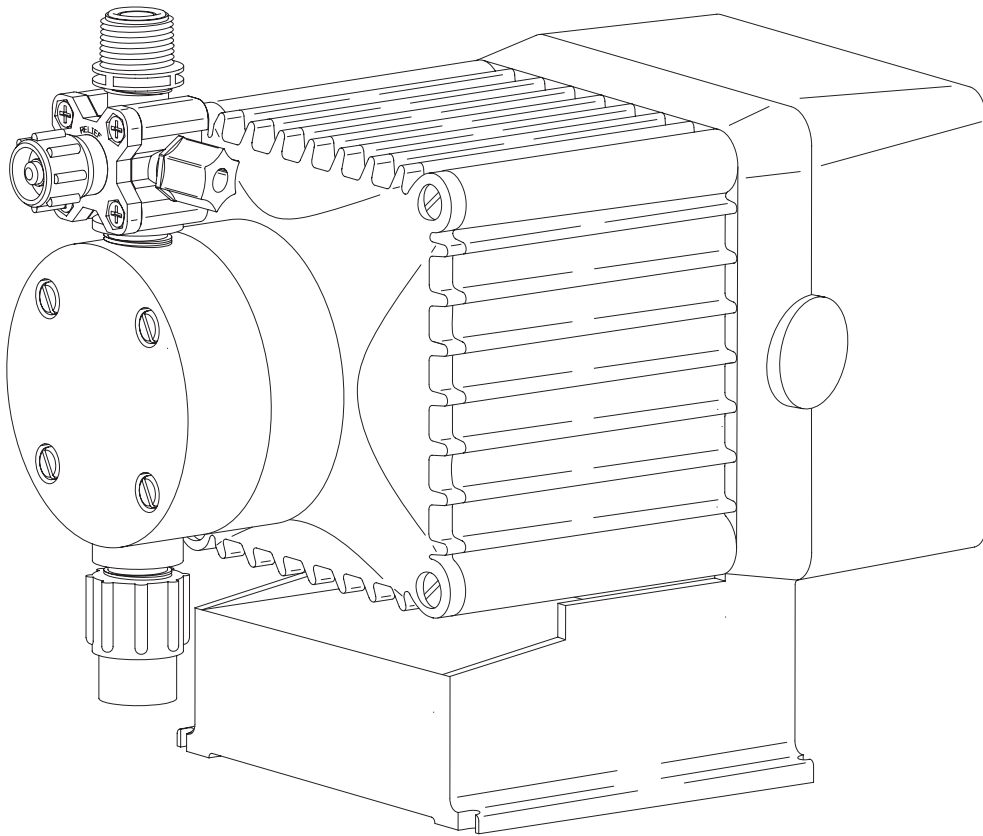




LMI[®]

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LIQUIFRAM[™] Removal and Installation

Instruction Sheet

Manual No : 1037

Rev. : L

Rev. Date : 11/2015



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LIQUIFRAM™ REMOVAL AND INSTALLATION

⚠ CAUTION ALWAYS WEAR PROTECTIVE CLOTHING, FACE SHIELD, SAFETY GLASSES AND GLOVES WHEN WORKING NEAR OR PERFORMING ANY MAINTENANCE OR REPLACEMENT ON YOUR PUMP. SEE SDS SHEET FROM SOLUTION SUPPLIER FOR ADDITIONAL PRECAUTIONS.

LMI® metering pumps are designed for trouble-free operation, yet routine maintenance of elastomeric parts is essential for optimum performance. This involves replacing the LIQUIFRAM™ seal rings, valve balls, and the Injection Check Valve spring. LMI® recommends replacing these parts at least once a year, however, frequency will depend on your particular application.

When replacing the LIQUIFRAM™, the valve balls, seal rings and the injection check valve spring should also be replaced. A Spare Parts Kit (SP-#) containing these parts may be obtained from your local distributor. (See the Liquid Handling Assembly Sheet for Spare Parts Kit Part Number.)

INSTALLATION

1. Carefully depressurize, drain, and disconnect the discharge line (see pump Instruction Manual). Place the Foot Valve into a container of water or other neutralizing solution. Turn the pump on to flush the head assembly. Once the pump head has been flushed, lift the Foot Valve out of the solution and continue to pump air into the pump head until the pump head is purged of water or neutralizing solution. Turn the pump off. Remove the four screws to the head and immerse the head in water or other neutralizing solution.

Note:

If the liquid cannot be pumped due to LIQUIFRAM™ rupture, using protective gloves, carefully disconnect the suction and discharge tubing. Remove the four screws to the head and immerse the head in water or other neutralizing solution.

2. Start the pump. While running, set the stroke knob to zero and turn the pump off.
3. With the unit off, unscrew the LIQUIFRAM™ by carefully grasping the outer edge of the LIQUIFRAM™ and turning it counter clockwise. Discard old LIQUIFRAM™. Remove the LIQUIFRAM™ disk if so equipped (located behind the LIQUIFRAM™) and check that the size code matches the size code on the replacement LIQUIFRAM™ (see *Figure A*).
4. Reinstall the disk.

⚠ CAUTION TAKE CARE NOT TO SCRATCH THE PTFE FACE OF THE NEW LIQUIFRAM™.

5. Start the pump and turn the stroke knob to the setting indicated on Stroke Setting Chart (Table A) which matches the pump model number located on the pump data plate. With the pump stroking (running), screw on the new LIQUIFRAM™ clockwise until the center begins to buckle inward. Stop the pump.
6. Grasp the outer edge of the LIQUIFRAM™ and adjust by screwing it in or out so that the center of the LIQUIFRAM™ is flush with the outside of the spacer edge (see *Figure B*).
7. Once the LIQUIFRAM™ is properly positioned, remount the pump head to the spacer using the four screws. Tighten in a crisscross pattern. After one week of operation, recheck the screws and tighten if necessary.

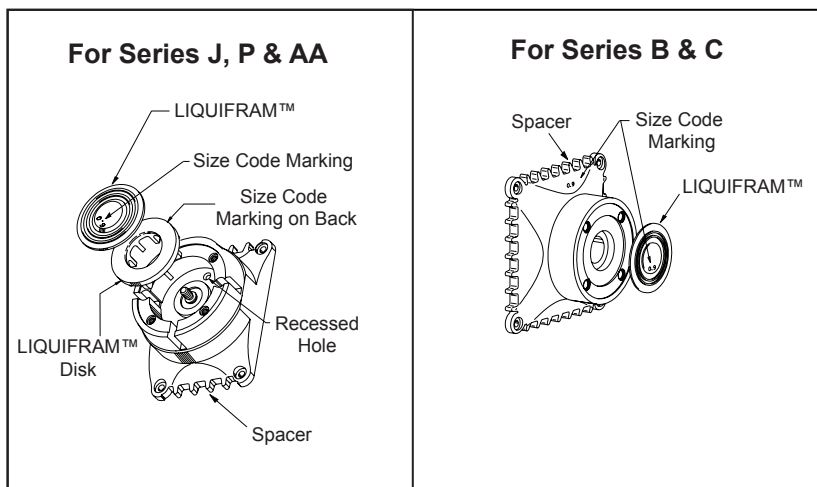


Figure. A

NOTE

Size Code markings for pumps supplied with 6.0 LIQUIFRAM™ DIAGHRAGMS should be referenced to the 6.0 black adapter not the 3.0 spacer.

LIQUIFRAM™ Stroke Setting Chart	
Pump	Stroke Knob Setting
All B, J, P, AA Series C10, C11, C12, C70, C71, C72, E70, E71, E72	90%
C78	50%
C13, C14, C73, C74, C77, E73, E74	70%
All U Series	100%. But LIQUIFRAM™ must be bottomed completely. (Turned all the way) Do Not Use Straight Edge.

Table. A

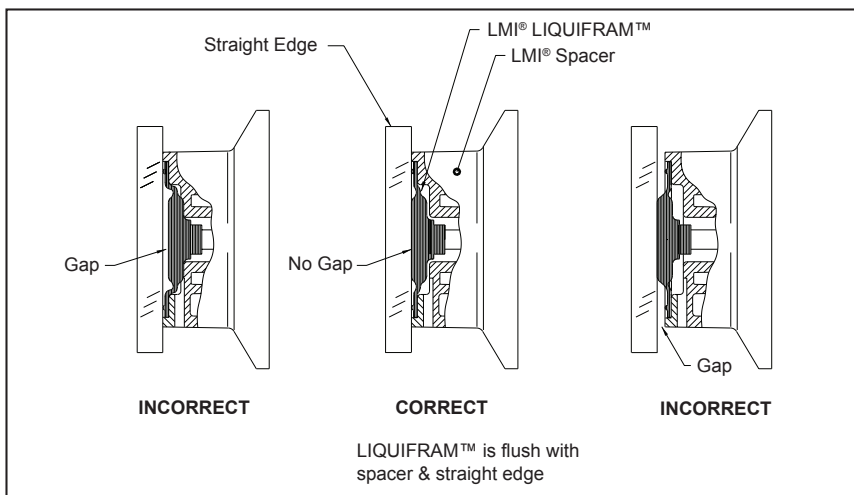


Figure. B

We are a proud member of Accudyne Industries, a leading global provider of precision-engineered, process-critical, and technologically advanced flow control systems and industrial compressors. Delivering consistently high levels of performance, we enable customers in the most important industries and harshest environments around the world to accomplish their missions.



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