LMI®

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LIQUIFRAM™

Removal and Installation

Instruction Sheet

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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 MSDS SHEETS FROM SOLUTION SUPPLIER FOR ADDITIONAL PRECAUTIONS.**

LMI® ROYTRONIC® Series 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 and turning it counter-clockwise. Discard old LIQUIFRAM™. Remove the LIQUIFRAM™ adapter disk located behind the LIQUIFRAM™ and ensure that the diameter of the raised section is the same as the diameter of the replacement LIQUIFRAM™ (see figure A).
4. Replace the Adapter Disk so that the drain hole of the disk is oriented downward, and the mounting holes line up with the mounting holes of the pump.

⚠ CAUTION **TAKE CARE NOT TO SCRATCH THE SURFACE OF THE NEW LIQUIFRAM™ .**

5. Screw on the new LIQUIFRAM™ clockwise until turned all the way in. Start the pump and turn the stroke knob to 100%. Stop the pump.
6. 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.

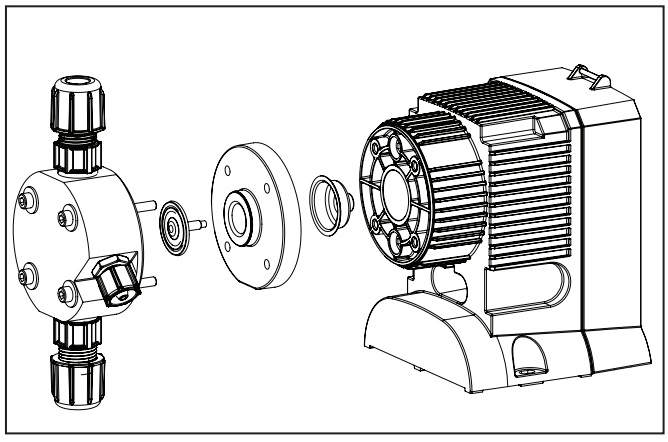

Figure A

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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