Introducing...
ROYTRONIC™
Series A

Setting the New HIGH STANDARD for Electronic Metering Pumps

3 Year Warranty
**Series A**

**New robust design with the advanced features and high end performance you expect from LMI**

**Control Features**
- Choose from one of 5 control options:
  - Manual stroke length control / fixed speed
  - Manual stroke length and speed control
  - Manual stroke length / pulse input speed control
  - Manual stroke length / auto pulse input or manual speed control
  - Manual stroke length / auto 4-20mA or manual speed control
- Locking Cover
- NEMA 4X / IP65 Enclosure
- Stroke indicator light
- On/Off push button
- New industrial grade IP-68 external signal/equipment interface
- Inputs for low level switch available on certain models

**New AutoPrime™ Liquid End**
- Automatically and continuously purges entrapped air from process fluid
- Eliminates air binding when used with liquids such as sodium hypochlorite

**New Heights in Standard Features**
- New 4 Function Valve with swivel mount that allows flexible orientation
- FastPrime standard liquid end enables easy start-up
- Both single and double ball checks available for improved pumping efficiency
- Tubing connection system sets a new standard for secure and leak-proof tubing connections

**Tubing Connection System - Exploded View**
### Liquifram Size 1

<table>
<thead>
<tr>
<th>Drive Assembly</th>
<th>Liquid End Type</th>
<th>Check Type</th>
<th>Material of Construction</th>
<th>Accs. Valve</th>
</tr>
</thead>
<tbody>
<tr>
<td>A81_</td>
<td>AutoPrime™</td>
<td>Double Ball</td>
<td>Acrylic/PVC Ceramic Polyprel Polyprel</td>
<td>APH + 4FV</td>
</tr>
<tr>
<td>A71_</td>
<td>AutoPrime™</td>
<td>Double Ball</td>
<td>Acrylic/PVC Ceramic Polyprel Polyprel</td>
<td>APH + 4FV</td>
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<tr>
<td>A31_</td>
<td>AutoPrime™</td>
<td>Double Ball</td>
<td>Acrylic/PVC Ceramic Polyprel Polyprel</td>
<td>APH + 4FV</td>
</tr>
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<td>A11_</td>
<td>AutoPrime™</td>
<td>Double Ball</td>
<td>Acrylic/PVC Ceramic Polyprel Polyprel</td>
<td>APH + 4FV</td>
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<tr>
<td>A01_</td>
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<td>Double Ball</td>
<td>Acrylic/PVC Ceramic Polyprel Polyprel</td>
<td>APH + 4FV</td>
</tr>
<tr>
<td>A84_</td>
<td>FastPrime™</td>
<td>Double Ball</td>
<td>PVDF/PVDF Ceramic Polyprel Polyprel</td>
<td>FPH + 4FV</td>
</tr>
<tr>
<td>A74_</td>
<td>FastPrime™</td>
<td>Double Ball</td>
<td>PVDF/PVDF Ceramic Polyprel Polyprel</td>
<td>FPH + 4FV</td>
</tr>
<tr>
<td>A34_</td>
<td>FastPrime™</td>
<td>Double Ball</td>
<td>PVDF/PVDF Ceramic Polyprel Polyprel</td>
<td>FPH + 4FV</td>
</tr>
<tr>
<td>A14_</td>
<td>FastPrime™</td>
<td>Double Ball</td>
<td>PVDF/PVDF Ceramic Polyprel Polyprel</td>
<td>FPH + 4FV</td>
</tr>
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<td>A04_</td>
<td>FastPrime™</td>
<td>Single Ball</td>
<td>PVDF/PVDF Ceramic Polyprel Polyprel</td>
<td>FPH + 4FV</td>
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#### Liquifram Size 2

<table>
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<tr>
<th>Drive Assembly</th>
<th>Liquid End Type</th>
<th>Check Type</th>
<th>Material of Construction</th>
<th>Accs. Valve</th>
</tr>
</thead>
<tbody>
<tr>
<td>A85_</td>
<td>AutoPrime™</td>
<td>Double Ball</td>
<td>Acrylic/PVC Ceramic Polyprel Polyprel</td>
<td>APH + 4FV</td>
</tr>
<tr>
<td>A75_</td>
<td>AutoPrime™</td>
<td>Double Ball</td>
<td>Acrylic/PVC Ceramic Polyprel Polyprel</td>
<td>APH + 4FV</td>
</tr>
<tr>
<td>A35_</td>
<td>AutoPrime™</td>
<td>Double Ball</td>
<td>Acrylic/PVC Ceramic Polyprel Polyprel</td>
<td>APH + 4FV</td>
</tr>
<tr>
<td>A15_</td>
<td>AutoPrime™</td>
<td>Double Ball</td>
<td>Acrylic/PVC Ceramic Polyprel Polyprel</td>
<td>APH + 4FV</td>
</tr>
<tr>
<td>A05_</td>
<td>AutoPrime™</td>
<td>Double Ball</td>
<td>Acrylic/PVC Ceramic Polyprel Polyprel</td>
<td>APH + 4FV</td>
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</tbody>
</table>

#### Liquifram Size 3

<table>
<thead>
<tr>
<th>Drive Assembly</th>
<th>Liquid End Type</th>
<th>Check Type</th>
<th>Material of Construction</th>
<th>Accs. Valve</th>
</tr>
</thead>
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<tr>
<td>A86_</td>
<td>AutoPrime™</td>
<td>Double Ball</td>
<td>Acrylic/PVC Ceramic Polyprel Polyprel</td>
<td>APH + 4FV</td>
</tr>
<tr>
<td>A76_</td>
<td>AutoPrime™</td>
<td>Double Ball</td>
<td>Acrylic/PVC Ceramic Polyprel Polyprel</td>
<td>APH + 4FV</td>
</tr>
<tr>
<td>A36_</td>
<td>AutoPrime™</td>
<td>Double Ball</td>
<td>Acrylic/PVC Ceramic Polyprel Polyprel</td>
<td>APH + 4FV</td>
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<tr>
<td>A16_</td>
<td>AutoPrime™</td>
<td>Double Ball</td>
<td>Acrylic/PVC Ceramic Polyprel Polyprel</td>
<td>APH + 4FV</td>
</tr>
<tr>
<td>A06_</td>
<td>AutoPrime™</td>
<td>Double Ball</td>
<td>Acrylic/PVC Ceramic Polyprel Polyprel</td>
<td>APH + 4FV</td>
</tr>
</tbody>
</table>

- **APH** indicates that the pump is equipped with an LMI AutoPrime™ Head. This head allows for the constant removal of vapors and gases present in applications like sodium hypochlorite and hydrogen peroxide.
- **FPH** indicates that the pump is equipped with an LMI FastPrime™ Head. This head has an integral manual priming valve to facilitate quick pump start-up.
- **AutoPrime™** is a copolymer of PTFE and PFA. Polyprel® is an elastomeric PTFE copolymer.
- **Polyprel®** is a registered trademark of Liquid Metronics Incorporated.
- 4FV indicates that the pump is equipped with an LMI Four Function Valve. This diaphragm type, anti-syphon/pressure relief valve is installed on the pump head.
- Fluorofilm™ is a copolymer of PTFE and PFA. Polyprel® is an elastomeric PTFE copolymer.
- Fluorofilm™, Liquifram™, AutoPrime™ and FastPrime™ are trademarks of Liquid Metronics Incorporated.
- To specify changes in head, accessory valve, and/or connections, please refer to the model code configuration chart.
Control Code

0 – Single Manual Control:
  Speed (stroking frequency) fixed and stroke length manually adjustable
1 – Dual Manual Control:
  Speed (stroking frequency) and stroke length manually adjustable
3 – Pulse Input / Single Manual Control:
  External control capability through pulse input and low level float switch plus manual control adjustments of control code 0
7 – Pulse Input / Dual Manual Control:
  External control capability through pulse input and low level float switch plus manual control adjustments of control code 1
8 – Analog Input / Dual Manual Control:
  External control capability through 4-20mA input and low level float switch plus manual control adjustments of control code 1

Output Codes
See Output Options

Voltage Code
1 – 110-120V US Plug
2 – 220-240V US Plug
3 – 220-240V DIN Plug
5 – 220-240V UK Plug
6 – 220-240V Aust/NZ Plug
7 – 220-240V Swiss Plug
8 – 110-120V No Plug

Liquid End Code
See previous page for options

Liquifram™ Size Code
1 – 0.2 in²
2 – 0.4 in²
3 – 0.8 in²
4 – 1.6 in²

Material Code
See previous page for options

Head/Valve Code
S – FastPrime™ Head + 4FV
N – FastPrime™ Head
H – AutoPrime™ Head + 4FV
A – AutoPrime™ Head

Connection Code
1 – Inch Tubing and 1/2” NPT or 1/2” BSP Pipe
M – Metric Tubing
U – Black, UV Resistant Tubing

* Dimensions shown are maximum for largest liquid end available. These dimensions vary depending on the liquid end selected.