



**LMI**  
**MILTON ROY**

Introducing...

**ROYTRONIC**<sup>TM</sup>

SERIES A



Setting the New  
**HIGH STANDARD**  
for  
Electronic  
Metering Pumps

**3 Year Warranty**



# ROYTRONIC™ 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 1/4" O.D. Tubing		AX1		0.003 to 0.26 GPH (0.01 to 1.0 l/h), 120 SPM					
		AX4		0.005 to 0.5 GPH (0.02 to 1.9 l/h), 240 SPM					
Drive Assembly	Liquid End Type	Liquid End Code	Check Type	Material of Construction					Accs. Valve
				Head/Fittings	Balls	Seat	O-ring	Max PSI/BAR	
A81_ A71_ A31_ A11_ A01_ A84_ A74_ A34_ A14_ A04_	AutoPrime™	910HI	Double Ball	Acrylic/PVC	Ceramic	Polyprel	Polyprel	150/10.3	APH + 4FV
		918HI		PVC/PVC	Ceramic	Polyprel	Polyprel	150/10.3	APH + 4FV
	FastPrime™	Double Ball	910SI	Acrylic/PVC	Ceramic	Polyprel	Polyprel	250/17.2	FPH + 4FV
			915SI	PP/PP	Ceramic	PTFE	PTFE	250/17.2	FPH + 4FV
		Double Ball	919SI	Acrylic/PVDF	PTFE	Polyprel	Polyprel	250/17.2	FPH + 4FV
			812SI	PVDF/PVDF	Ceramic	Polyprel	Polyprel	250/17.2	FPH + 4FV
			813SI	PVDF/PVDF	Ceramic	PTFE	PTFE	250/17.2	FPH + 4FV
			918SI	PVC/PVDF	Ceramic	Polyprel	Polyprel	250/17.2	FPH + 4FV
			818SI	PVC/PVDF	Ceramic	Polyprel	Polyprel	250/17.2	FPH + 4FV
			718SI	PVC/PVDF	Ceramic	Polyprel	Polyprel	250/17.2	FPH + 4FV
		917NP	Double Ball	316 SS/316 SS	316 SS	316 SS	PTFE	250/17.2	FPH 1/4" NPT M

Liquifram Size 2 3/8" O.D. Tubing		AX5		0.01 to 1.0 GPH (0.04 to 3.8 l/h), 240 SPM					
		AX5		0.005 to 0.75 GPH (0.02 to 2.8 l/h), 240 SPM					
Drive Assembly	Liquid End Type	Liquid End Code	Check Type	Material of Construction					Accs. Valve
				Head/Fittings	Balls	Seat	O-ring	Max PSI/BAR	
A85_ A75_ A35_ A15_ A05_	AutoPrime™	920HI	Double Ball	Acrylic/PVC	Ceramic	Polyprel	Polyprel	110/7.6	APH + 4FV
		928HI		PVC/PVC	Ceramic	Polyprel	Polyprel	110/7.6	APH + 4FV
	FastPrime™	Double Ball	920SI	Acrylic/PVC	Ceramic	Polyprel	Polyprel	110/7.6	FPH + 4FV
			925SI	PP/PP	Ceramic	PTFE	PTFE	110/7.6	FPH + 4FV
		Double Ball	929SI	Acrylic/PVDF	PTFE	Polyprel	Polyprel	110/7.6	FPH + 4FV
			822SI	PVDF/PVDF	Ceramic	Polyprel	Polyprel	110/7.6	FPH + 4FV
			823SI	PVDF/PVDF	Ceramic	PTFE	PTFE	110/7.6	FPH + 4FV
			828SI	PVC/PVC	Ceramic	Polyprel	Polyprel	110/7.6	FPH + 4FV
			728SI	PVC/PVC	Ceramic	Polyprel	Polyprel	110/7.6	FPH + 4FV
			927NP	Double Ball	316SS/316SS	316SS	316SS	PTFE	110/7.6

Liquifram Size 3 3/8" O.D. Tubing		AX6		0.02 to 2.0 GPH (0.08 to 7.6 l/h), 240 SPM					
		AX6		0.017 to 1.7 GPH (0.06 to 6.4 l/h), 240 SPM					
Drive Assembly	Liquid End Type	Liquid End Code	Check Type	Material of Construction					Accs. Valve
				Head/Fittings	Balls	Seat	O-ring	Max PSI/BAR	
A86_ A76_ A36_ A16_ A06_	AutoPrime™	930HI	Double Ball	Acrylic/PVC	Ceramic	Polyprel	Polyprel	50/3.4	APH + 4FV
		938HI		PVC/PVC	Ceramic	Polyprel	Polyprel	50/3.4	APH + 4FV
	FastPrime™	Double Ball	930SI	Acrylic/PVC	Ceramic	Polyprel	Polyprel	50/3.4	FPH + 4FV
			935SI	PP/PP	Ceramic	PTFE	PTFE	50/3.4	FPH + 4FV
		Double Ball	939SI	Acrylic/PVDF	PTFE	Polyprel	Polyprel	50/3.4	FPH + 4FV
			832SI	PVDF/PVDF	Ceramic	Polyprel	Polyprel	50/3.4	FPH + 4FV
			833SI	PVDF/PVDF	Ceramic	PTFE	PTFE	50/3.4	FPH + 4FV
			838SI	PVC/PVC	Ceramic	Polyprel	Polyprel	50/3.4	FPH + 4FV
			738SI	PVC/PVC	Ceramic	Polyprel	Polyprel	50/3.4	FPH + 4FV
			937NP	Double Ball	316SS/316SS	316SS	316SS	PTFE	50/3.4

- To specify changes in head, accessory valve, and/or connections, please refer to the model code configuration chart.
- 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.
- 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.
- Polyprel® is an elastomeric PTFE copolymer.
- Polyprel® is a registered trademark of Milton Roy Company. Liquifram™, AutoPrime™ and FastPrime™ are trademarks of Milton Roy Company.

Model A **7 5 1 - 8 2 8 S I**

Model Code Configuration

