

ROYTRONIC®

SERIES A

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

Control Features

- Choose from one of 3 control options:
 - Manual stroke length and 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	FastPrime™	0.003 to 0.25 GPH (0.01 to 1.0 l/h), 120 SPM						
		AutoPrime™	0.001 to 0.13 GPH (0.005 to 0.5 l/h), 120 SPM						
	AX4	FastPrime™	0.005 to 0.5 GPH (0.02 to 1.9 l/h), 240 SPM						
				Head/Fittings	Material of Construction				Accs. Valve
					Balls	Seat	O-ring	Max PSI/BAR	
A81_ A71_ A11_ A84_ A74_ A14_	AutoPrime™	910HI	Double Ball	Acrylic/PVC	Ceramic	PTFE	Polyprel	150/10.3	APH + 4FV
		918HI		PVC/PVC	Ceramic	PTFE	Polyprel	150/10.3	APH + 4FV
	FastPrime™	910SI	Double Ball	Acrylic/PVC	Ceramic	PTFE	Polyprel	250/17.2	FPH + 4FV
		915SI		PP/PP	Ceramic	PTFE	PTFE	250/17.2	FPH + 4FV
		919SI		Acrylic/PVDF	PTFE	PTFE	Polyprel	250/17.2	FPH + 4FV
		812SI		PVDF/PVDF	Ceramic	PTFE	Polyprel	250/17.2	FPH + 4FV
		813SI	Double Ball	PVDF/PVDF	Ceramic	PTFE	PTFE	250/17.2	FPH + 4FV
		918SI		PVC/PVC	Ceramic	PTFE	Polyprel	250/17.2	FPH + 4FV
		818SI		PVC/PVC	Ceramic	PTFE	Polyprel	250/17.2	FPH + 4FV
		718SI	Single Ball	PVC/PVC	Ceramic	PTFE	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

Liquifram Size 2 3/8" O.D. Tubing	AX5	FastPrime™	0.01 to 1.0 GPH (0.04 to 3.8 l/h), 240 SPM						
		AutoPrime™	0.006 to 0.65 GPH (0.02 to 2.5 l/h), 240 SPM						
	Drive Assembly	Liquid End Type	Liquid End Code	Check Type	Material of Construction				Accs. Valve
A85_ A75_ A15_	AutoPrime™	920HI	Double Ball	Acrylic/PVC	Ceramic	PTFE	Polyprel	110/7.6	APH + 4FV
		928HI		PVC/PVC	Ceramic	PTFE	Polyprel	110/7.6	APH + 4FV
	FastPrime™	920SI	Double Ball	Acrylic/PVC	Ceramic	Polyprel	Polyprel	110/7.6	FPH + 4FV
		925SI		PP/PP	Ceramic	PTFE	PTFE	110/7.6	FPH + 4FV
		929SI		Acrylic/PVDF	PTFE	Polyprel	Polyprel	110/7.6	FPH + 4FV
		822SI	Double Ball	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	Single Ball	PVC/PVC	Ceramic	Polyprel	Polyprel	110/7.6	FPH + 4FV
		927NP	Double Ball	316SS/316SS	316SS	316SS	PTFE	110/7.6	FPH 1/4" NPT

Liquifram Size 3 3/8" O.D. Tubing	AX6	FastPrime™	0.02 to 2.0 GPH (0.08 to 7.6 l/h), 240 SPM						
		AutoPrime™	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
A86_ A76_ A16_	AutoPrime™	930HI	Double Ball	Acrylic/PVC	Ceramic	PTFE	Polyprel	50/3.4	APH + 4FV
		938HI		PVC/PVC	Ceramic	PTFE	Polyprel	50/3.4	APH + 4FV
	FastPrime™	930SI	Double Ball	Acrylic/PVC	Ceramic	Polyprel	Polyprel	50/3.4	FPH + 4FV
		935SI		PP/PP	Ceramic	PTFE	PTFE	50/3.4	FPH + 4FV
		939SI		Acrylic/PVDF	PTFE	Polyprel	Polyprel	50/3.4	FPH + 4FV
		832SI	Double Ball	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	Single Ball	PVC/PVC	Ceramic	Polyprel	Polyprel	50/3.4	FPH + 4FV
		937NP	Double Ball	316SS/316SS	316SS	316SS	PTFE	50/3.4	FPH 1/4" NPT

- 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. Fluorofilm™, Liquifram™, AutoPrime™ and FastPrime™ are trademarks of Milton Roy Company.
- Roytronic is a registered trademark of Milton Roy Company



ROYTRONIC[®]

SERIES A

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Model Code Configuration

Drive

Control Code

1 – Dual Manual Control:
Speed (stroking frequency) and stroke length manually adjustable

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

Liquid End Code

See previous page for options

Liquifram™ Size Code

1 – 0.2 in²
2 – 0.4 in²
3 – 0.8 in²

Material Code

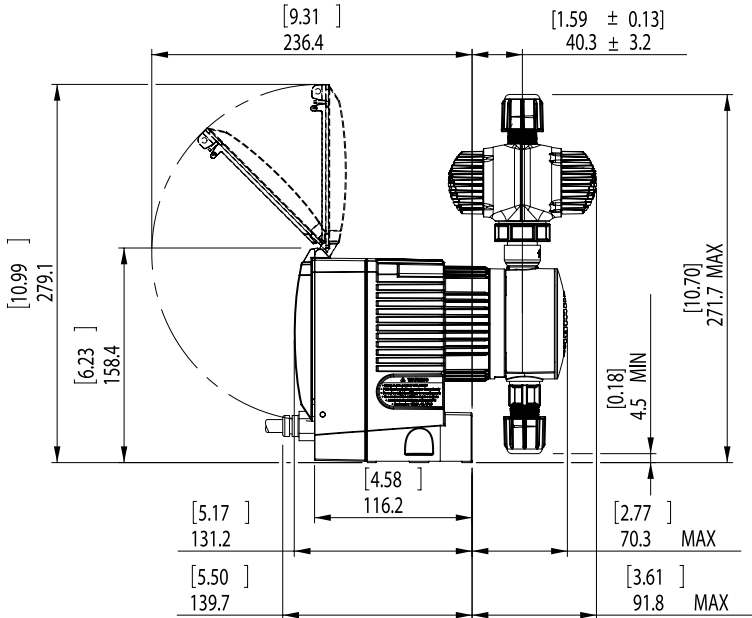
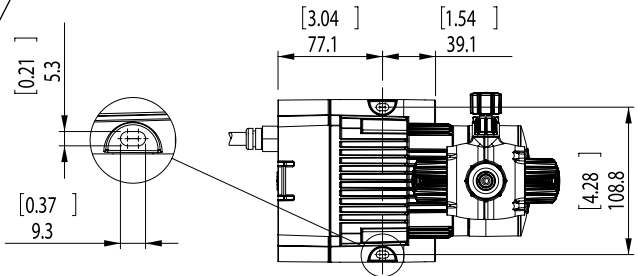
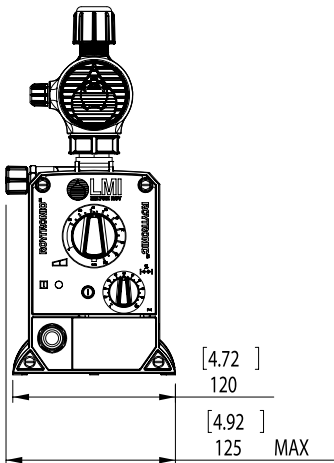
See previous page for options

Head/Valve Code

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

Connection Code

I – Inch Tubing and 1/2" NPT or 1/2" BSP Pipe
M – Metric Tubing
P – 1/2" NPT - 1/2" BSP Pipe (SS Head Only)
U – Black, UV Resistant Tubing



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



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Setting the New
HIGH STANDARD
for
Electronic
Metering Pumps

3 Year Warranty

