



**LMI**  
**MILTON ROY**

**ROYTRONIC™**

**SERIES P**

- New robust design with enhanced LMI quality and added customer value
- New standard FastPrime™ Head and new optional AutoPrime™ Head
- Additional material combinations and increased stroking speeds allow for greater pump flexibility and application versatility







# ROYTRONIC™

SERIES P

Model P+ 7 5 1 - 8 2 8 S I

## Model Code Configuration

Drive

### 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 4-20 mA input and low level float switch plus manual control adjustments of control code 1

### Output Codes

See Next Page for Output Options

### Voltage Code

- 1 - 110-120V US Plug
- 2 - 220-240V US Plug
- 3 - 220-240V DIN Plug
- 4 - 220-240V Israel Plug
- 5 - 220-240V UK Plug
- 6 - 220-240V Aust/NZ Plug
- 7 - 220-240V Swiss Plug
- 8 - 110-120V No Plug
- 9 - 220-240V Indian Plug

### Liquid End Code

See Next Page for Options

### Liquifram™ Size Code

- 1 - 0.2 in<sup>2</sup>
- 2 - 0.4 in<sup>2</sup>
- 3 - 0.8 in<sup>2</sup>
- 4 - 1.6 in<sup>2</sup>

### Material Code

See Next Page for Material Options

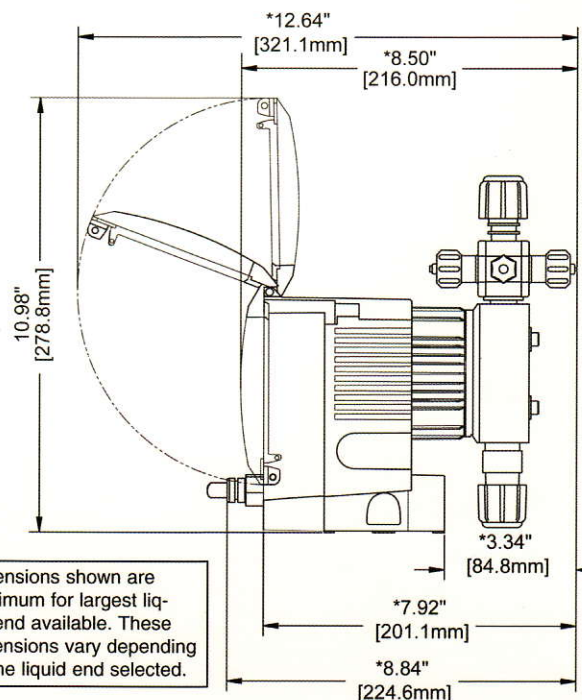
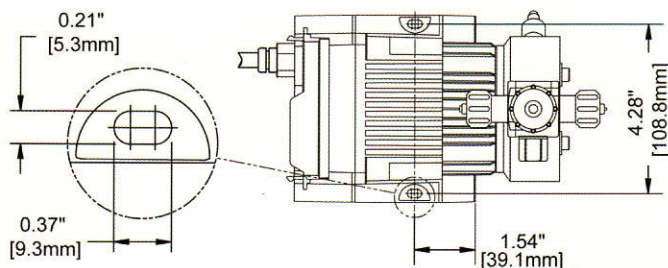
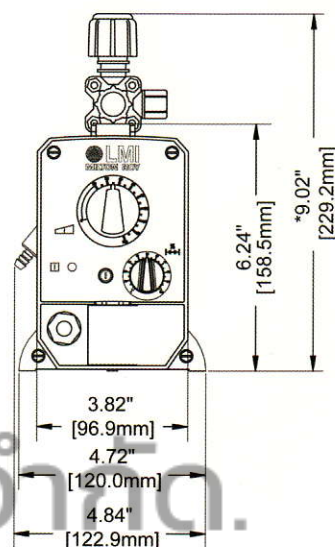
### Head/Valve Code

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

### Connection Code

- I - Inch Tubing
- M - Metric Tubing
- P - 1/2" NPT - 1/2" BSP Pipe
- U - Black, UV Resistant Tubing

Liquid End



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



**Liquifram  
Size 1**  
1/4" O.D. Tubing

<b>Liquifram Size 1</b> 1/4" O.D. Tubing	<b>PX1</b>	FastPrime™	0.003 to 0.25 GPH (0.01 to 0.9 l/h), 120 SPM				250 psi (17.2 Bar)	
		AutoPrime™	0.001 to 0.13 GPH (0.005 to 0.5 l/h), 120 SPM				110 psi (7.6 Bar)	
	<b>PX4</b>	FastPrime™	0.005 to 0.5 GPH (0.02 to 1.9 l/h), 240 SPM				250 psi (17.2 Bar)	
		AutoPrime™	0.003 to 0.25 GPH (0.01 to 0.9 l/h), 240 SPM				110 psi (7.6 Bar)	
Drive Assembly	Liquid End Type	Liquid End Code	Check Type	Material of Construction				Accs. Valve
				Head/Fittings	Balls	Seat	O-ring	
P+81_ P+71_ P+31_ P+11_ P+01_ P+84_ P+74_ P+34_ P+14_ P+04_	AutoPrime™	910HI	Double Ball	Acrylic/PVC	Ceramic	Polyprel	Polyprel	APH + 4FV
		918HI		PVC/PVC	Ceramic	Polyprel	Polyprel	APH + 4FV
	FastPrime™	910SI	Double Ball	Acrylic/PVC	Ceramic	Polyprel	Polyprel	FPH + 4FV
		915SI		PP/PP	Ceramic	PTFE	PTFE	FPH + 4FV
		919SI		Acrylic/PVDF	PTFE	Polyprel	Polyprel	FPH + 4FV
		812SI		PVDF/PVDF	Ceramic	Polyprel	Polyprel	FPH + 4FV
		813SI	Double Ball	PVDF/PVDF	Ceramic	PTFE	PTFE	FPH + 4FV
		818SI		PVC/PVC	Ceramic	Polyprel	Polyprel	FPH + 4FV
		718SI	Single Ball	PVC/PVC	Ceramic	Polyprel	Polyprel	FPH + 4FV

**Liquifram  
Size 2**  
3/8" O.D. Tubing

Size 2		PX5		0.01 to 1.0 GPH (0.04 to 3.8 l/h), 240 SPM				110 psi (7.6 Bar)	
3/8" O.D. Tubing		AutoPrime™		0.005 to 0.55 GPH (0.02 to 2.1 l/h), 240 SPM				110 psi (7.6 Bar)	
Drive Assembly	Liquid End Type	Liquid End Code	Check Type	Material of Construction				Accs. Valve	
				Head/Fittings	Balls	Seat	O-ring		
P+85_ P+75_ P+35_ P+15_ P+05_	AutoPrime™	920HI	Double Ball	Acrylic/PVC	Ceramic	Polyprel	Polyprel	APH + 4FV	
		928HI		PVC/PVC	Ceramic	Polyprel	Polyprel	APH + 4FV	
	FastPrime™	920SI	Double Ball	Acrylic/PVC	Ceramic	Polyprel	Polyprel	FPH + 4FV	
		925SI		PP/PP	Ceramic	PTFE	PTFE	FPH + 4FV	
		929SI		Acrylic/PVDF	PTFE	Polyprel	Polyprel	FPH + 4FV	
		822SI		PVDF/PVDF	Ceramic	Polyprel	Polyprel	FPH + 4FV	
		823SI	Double Ball	PVDF/PVDF	Ceramic	PTFE	PTFE	FPH + 4FV	
		828SI		PVC/PVC	Ceramic	Polyprel	Polyprel	FPH + 4FV	
		728SI	Single Ball	PVC/PVC	Ceramic	Polyprel	Polyprel	FPH + 4FV	

**Liquifram  
Size 3**  
3/8" O.D. Tubing

<b>Liquifram Size 3</b> 3/8" O.D. Tubing	<b>PX6</b>	FastPrime™	0.02 to 2.0 GPH (0.08 to 7.6 l/h), 240 SPM				50 psi (3.4 Bar)	
		AutoPrime™	0.017 to 1.7 GPH (0.06 to 6.4 l/h), 240 SPM				50 psi (3.4 Bar)	
	<b>PX8</b>	FastPrime™	0.032 to 3.2 GPH (0.12 to 12.1 l/h), 240 SPM				22 psi (1.5 Bar)	
		AutoPrime™	0.027 to 2.7 GPH (0.010 to 10.2 l/h), 240 SPM				22 psi (1.5 Bar)	
Drive Assembly	Liquid End Type	Liquid End Code	Check Type	Material of Construction				Accs. Valve
P*86_ P*76_ P*36_ P*16_ P*06_ P*88_ P*78_ P*38_ P*18_ P*08_	AutoPrime™	930HI	Double Ball	Acrylic/PVC	Ceramic	Polyprel	Polyprel	APH + 4FV
		938HI		PVC/PVC	Ceramic	Polyprel	Polyprel	APH + 4FV
	FastPrime™	930SI	Double Ball	Acrylic/PVC	Ceramic	Polyprel	Polyprel	FPH + 4FV
		935SI		PP/PP	Ceramic	PTFE	PTFE	FPH + 4FV
		939SI		Acrylic/PVDF	PTFE	Polyprel	Polyprel	FPH + 4FV
		832SI		PVDF/PVDF	Ceramic	Polyprel	Polyprel	FPH + 4FV
		833SI	Double Ball	PVDF/PVDF	Ceramic	PTFE	PTFE	FPH + 4FV
		838SI		PVC/PVC	Ceramic	Polyprel	Polyprel	FPH + 4FV
		738SI	Single Ball	PVC/PVC	Ceramic	Polyprel	Polyprel	FPH + 4FV

**Liquifram  
Size 4**  
1/2" O.D. Tubing

Size 4 1/2" O.D. Tubing		PX9	FastPrime™	0.04 to 4.0 GPH (0.15 to 15.2 l/h), 240 SPM				15 psi (1.0 Bar)	
Drive Assembly	Liquid End Type	Liquid End Code	Check Type	Material of Construction				Accs. Valve	
				Head/Fittings	Balls	Seat	O-ring		
P+ 89_ P+ 79_ P+ 39_ P+ 19_ P+ 09_	FastPrime™	940NI	Double Ball	Acrylic/PVC	Ceramic	Polyprel	Polyprel	FPH	
		945NI		PP/PP	Ceramic	PTFE	PTFE	FPH	
		949NI		Acrylic/PVDF	PTFE	Polyprel	Polyprel	FPH	
		842NI	Double Ball	PVDF/PVDF	Ceramic	Polyprel	Polyprel	FPH	
		843NI		PVDF/PVDF	Ceramic	PTFE	PTFE	FPH	
		848NI		PVC/PVC	Ceramic	Polyprel	Polyprel	FPH	
		748NI	Single Ball	PVC/PVC	Ceramic	Polyprel	Polyprel	FPH	

• 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.

• Fluorofilm™ is a copolymer of PTFE and PFA. Polyprel® is an elastomeric PTFE copolymer.

• Polyprel® is a registered trademark of Liquid Metronics Incorporated. Fluorofilm™, Liquifram™, AutoPrime™ and FastPrime™ are trademarks of Liquid Metronics Incorporated.



# ROYTRONIC™

## SERIES P

- New robust LMI solenoid design
- Increased stroking speed range (1 to 240 spm), combined with standard stroke length range (30 to 100%) allows for more precise chemical dosing
- Single-ball or double-ball check valve options enable improved pumping efficiency
- NEMA 4X / IP65 enclosure
- On/Off push button capability
- Optional, lockable clear cover
- Stroke indicator light flashes when the pump is stroking
- Simplified and more robust tubing connections eliminate metal seal rings and utilize common parts for all sizes and configurations
- New industrial watertight IP-68 electrical connectors for external equipment interface
- Optional low-level float switch connects to new low-level connector (3-Pin) and low-level indicator light that warns when chemical level is low
- External mode option has pulse input control capability through external control connector (5-Pin)
- External mode option has 4-20 mA input control capability through external control connector (5-Pin)
- New remote on/off option through external control connector (5-Pin)



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