



 **LMI**
MILTON ROY

LMI 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



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 / Size Code

1 - .26 GPH (0.9 l/h), 250 PSI (17.2 Bar), 120 SPM

4 - .50 GPH (1.9 l/h), 250 PSI (17.2 Bar), 240 SPM

5 - 1.0 GPH (3.8 l/h), 110 PSI (7.6 Bar), 240 SPM

6 - 2.0 GPH (7.6 l/h), 50 PSI (3.4 Bar), 240 SPM

8 - 3.2 GPH (12.1 l/h), 22 PSI (1.5 Bar), 240 SPM

9 - 4.0 GPH (15.1 l/h), 15 PSI (1.0 Bar), 240 SPM

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

7 - Molded Head, Single Ball Check Valves

8 - Molded Head, Double Ball Check Valves

9 - Machined Head, Double Ball Check Valves

Liquifram™ Size Code

1 - 0.2 in²

2 - 0.4 in²

3 - 0.8 in²

4 - 1.6 in²

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

*AutoPrime & 4FV are not available for Px8 & Px9

Connection Code

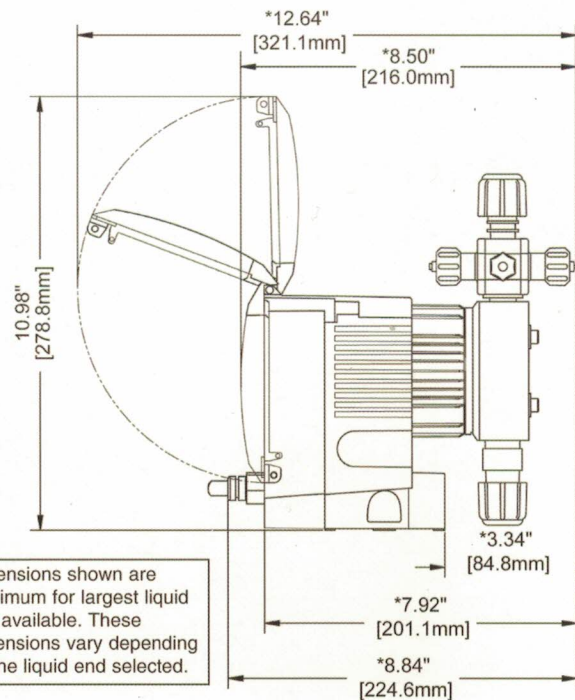
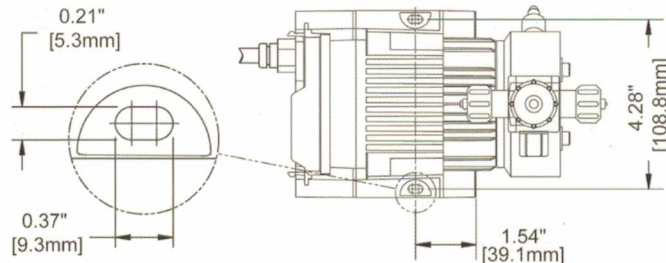
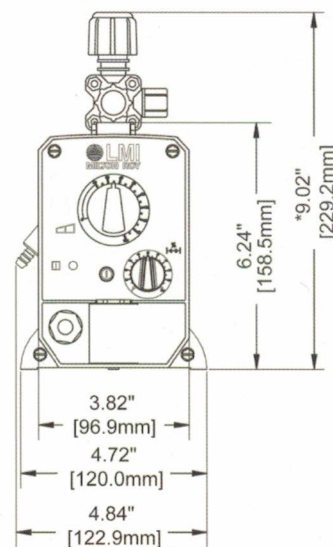
I - Inch Tubing

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.

P+X1	FastPrime	0.003 to 0.26 GPH	(0.01 to 0.9 l/h)	Liquifram	Size Code 1	250psi (17.2 Bar)
	AutoPrime	0.001 to 0.13 GPH	(0.005 to 0.5 l/h)	Liquifram	Size Code 1	110psi (7.6 Bar)
P+X4	FastPrime	0.005 to 0.5 GPH	(0.02 to 1.9 l/h)	Liquifram	Size Code 1	250psi (17.2 Bar)
	AutoPrime	0.003 to 0.25 GPH	(0.01 to 0.9 l/h)	Liquifram	Size Code 1	110psi (7.6 Bar)

Drive Assembly	Liquid End	Materials of Construction						Tubing & Connections
		Head/Fittings	Balls	Liquifram™	Seat	O-ring	Accs. Valve	
P*81_	AutoPrime™ Liquid Ends							
	910HI	Acrylic / PVC	Ceramic	Fluorofilm™	PTFE	Polyprel®	APH + 4FV	PE 1/4" O.D.
P*71_	918HI	PVC / PVC	Ceramic	Fluorofilm™	PTFE	Polyprel®	APH + 4FV	PE 1/4" O.D.
P*31_	Machined FastPrime™ Liquid Ends (Double Ball Check Valves)							
P*11_	910SI	Acrylic / PVC	Ceramic	Fluorofilm™	PTFE	Polyprel®	FPH + 4FV	PE 1/4" O.D.
P*01_	915SI	PP / PP	Ceramic	Fluorofilm™	PTFE	PTFE	FPH + 4FV	PE 1/4" O.D.
P*84_	919SI	Acrylic / PVDF	PTFE	Fluorofilm™	PTFE	Polyprel®	FPH + 4FV	PE 1/4" O.D.
P*74_	Molded FastPrime™ Liquid Ends (Double Ball Check Valves)							
P*34_	812SI	PVDF / PVDF	Ceramic	Fluorofilm™	PTFE	Polyprel®	FPH + 4FV	PE 1/4" O.D.
P*14_	813SI	PVDF / PVDF	Ceramic	Fluorofilm™	PTFE	PTFE	FPH + 4FV	PE 1/4" O.D.
P*04_	818SI	PVC / PVC	Ceramic	Fluorofilm™	PTFE	Polyprel®	FPH + 4FV	PE 1/4" O.D.
	Molded FastPrime™ Liquid Ends (Single Ball Check Valves)							
	718SI	PVC / PVC	Ceramic	Fluorofilm™	PTFE	Polyprel®	FPH + 4FV	PE 1/4" O.D.

P+X5	FastPrime	0.01 to 1.0 GPH	(0.04 to 3.8 l/h)	Liquifram	Size Code 2	110psi (7.6 Bar)
	AutoPrime	0.005 to 0.75 GPH	(0.02 to 2.8 l/h)	Liquifram	Size Code 2	110psi (7.6 Bar)

Drive Assembly	Liquid End	Materials of Construction						Tubing & Connections
		Head/Fittings	Balls	Liquifram™	Seat	O-ring	Accs. Valve	
P*85_ P*75_ P*35_ P*15_ P*05_	AutoPrime™ Liquid Ends							
	920HI	Acrylic / PVC	Ceramic	Fluorofilm™	PTFE	Polyprel®	APH + 4FV	PE 3/8" O.D.
	928HI	PVC / PVC	Ceramic	Fluorofilm™	PTFE	Polyprel®	APH + 4FV	PE 3/8" O.D.
	Machined FastPrime™ Liquid Ends (Double Ball Check Valves)							
	920SI	Acrylic / PVC	Ceramic	Fluorofilm™	PTFE	Polyprel®	FPH + 4FV	PE 3/8" O.D.
	925SI	PP / PP	Ceramic	Fluorofilm™	PTFE	PTFE	FPH + 4FV	PE 3/8" O.D.
	929SI	Acrylic / PVDF	PTFE	Fluorofilm™	PTFE	Polyprel®	FPH + 4FV	PE 3/8" O.D.
	Molded FastPrime™ Liquid Ends (Double Ball Check Valves)							
	822SI	PVDF / PVDF	Ceramic	Fluorofilm™	PTFE	Polyprel®	FPH + 4FV	PE 3/8" O.D.
	823SI	PVDF / PVDF	Ceramic	Fluorofilm™	PTFE	PTFE	FPH + 4FV	PE 3/8" O.D.
	828SI	PVC / PVC	Ceramic	Fluorofilm™	PTFE	Polyprel®	FPH + 4FV	PE 3/8" O.D.
	Molded FastPrime™ Liquid Ends (Single Ball Check Valves)							
	728SI	PVC / PVC	Ceramic	Fluorofilm™	PTFE	Polyprel®	FPH + 4FV	PE 3/8" O.D.

P+X6	FastPrime	0.02 to 2.0 GPH	(0.08 to 7.6 l/h)	Liquifram	Size Code 3	50psi (3.4 Bar)
	AutoPrime	0.017 to 1.7 GPH	(0.06 to 6.4 l/h)	Liquifram	Size Code 3	50psi (3.4 Bar)
P+X8	FastPrime	0.03 to 3.2 GPH	(0.12 to 12.1 l/h)	Liquifram	Size Code 3	22psi (1.5 Bar)

Drive Assembly	Liquid End	Materials of Construction						Tubing & Connections
		Head/Fittings	Balls	Liquifram™	Seat	O-ring	Accs. Valve	
P*86_	AutoPrime™ Liquid Ends							
	930HI	Acrylic / PVC	Ceramic	Fluorofilm™	Polyprel®	Polyprel®	APH + 4FV	PE 3/8" O.D.
P*76_	938HI	PVC / PVC	Ceramic	Fluorofilm™	Polyprel®	Polyprel®	APH + 4FV	PE 3/8" O.D.
P*36_	Machined FastPrime™ Liquid Ends (Double Ball Check Valves)							
P*16_	930SI	Acrylic / PVC	Ceramic	Fluorofilm™	Polyprel®	Polyprel®	FPH + 4FV	PE 3/8" O.D.
P*06_	935SI	PP / PP	Ceramic	Fluorofilm™	PTFE	PTFE	FPH + 4FV	PE 3/8" O.D.
P*88_	939SI	Acrylic / PVDF	PTFE	Fluorofilm™	Polyprel®	Polyprel®	FPH + 4FV	PE 3/8" O.D.
P*78_	Molded FastPrime™ Liquid Ends (Double Ball Check Valves)							
P*38_	832SI	PVDF / PVDF	Ceramic	Fluorofilm™	Polyprel®	Polyprel®	FPH + 4FV	PE 3/8" O.D.
P*18_	833SI	PVDF / PVDF	Ceramic	Fluorofilm™	PTFE	PTFE	FPH + 4FV	PE 3/8" O.D.
P*08_	838SI	PVC / PVC	Ceramic	Fluorofilm™	Polyprel®	Polyprel®	FPH + 4FV	PE 3/8" O.D.
	Molded FastPrime™ Liquid Ends (Single Ball Check Valves)							
	738SI	PVC / PVC	Ceramic	Fluorofilm™	Polyprel®	Polyprel®	FPH + 4FV	PE 3/8" O.D.

P+X9	FastPrime	0.04 to 4.0 GPH	(0.15 to 15.1 l/h)	Liquifram	Size Code 4	15psi (1.0 Bar)
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Drive Assembly	Liquid End	Materials of Construction						Tubing & Connections
		Head/Fittings	Balls	Liquifram™	Seat	O-ring	Accs. Valve	
P*89_ P*79_ P*39_ P*19_ P*09_	Machined FastPrime™ Liquid Ends (Double Ball Check Valves)							
	940NI	Acrylic / PVC	Ceramic	Fluorofilm™	Polyprel®	Polyprel®	FPH	PE 1/2" O.D.
	945NI	PP / PP	Ceramic	Fluorofilm™	PTFE	PTFE	FPH	PE 1/2" O.D.
	949NI	Acrylic / PVDF	PTFE	Fluorofilm™	Polyprel®	Polyprel®	FPH	PE 1/2" O.D.
	Molded FastPrime™ Liquid Ends (Double Ball Check Valves)							
	842NI	PVDF / PVDF	Ceramic	Fluorofilm™	Polyprel®	Polyprel®	FPH	PE 1/2" O.D.
	843NI	PVDF / PVDF	Ceramic	Fluorofilm™	PTFE	PTFE	FPH	PE 1/2" O.D.
	848NI	PVC / PVC	Ceramic	Fluorofilm™	Polyprel®	Polyprel®	FPH	PE 1/2" O.D.
	Molded FastPrime™ Liquid Ends (Single Ball Check Valves)							
748NI	PVC / PVC	Ceramic	Fluorofilm™	Polyprel®	Polyprel®	FPH	PE 1/2" O.D.	

- 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 elastometric PTFE copolymer.
- Polyprel® is a registered trademark of Liquid Metronics Incorporated. Fluorofilm™, Liquifram™, AutoPrime™ and FastPrime™ are trademarks of Liquid Metronics Incorporated. Hypalon® is a registered trademark of E.I. DuPont de Nemours & Co. Inc.

LMI 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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