

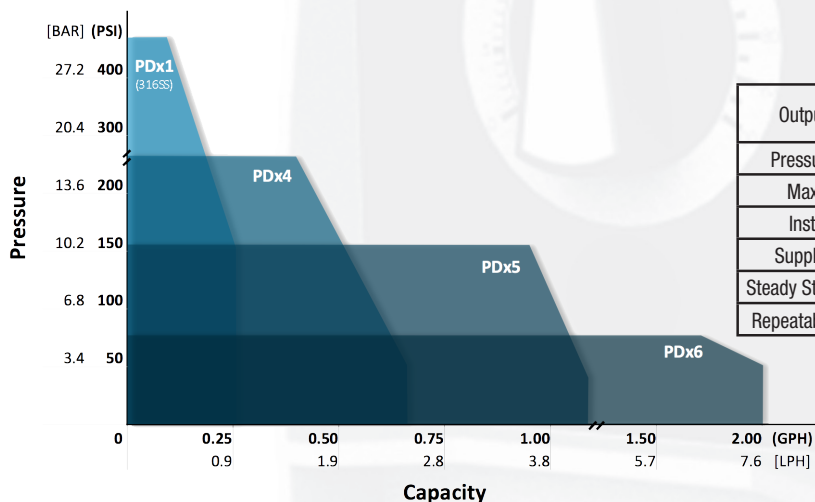
Chemical Metering Pump

Designed to Last

Introducing the PD Series chemical metering pump, the new standard in water treatment. This upgrade to LMI's most popular pump series includes an improved drive design, all new electronics, and proven FASTPRIME™ liquid ends. Available in Manual or Enhanced control models, the PD Series pump fits seamlessly into your process control application. The Manual model offers straightforward control without the need for tedious calculations. Its split-scale dial ensures precision, even at lower flow rates. The Enhanced model offers external control and a large graphical display to provide intuitive access to advanced features such as calibration assist, system and user totalizers, the new STAYPRIME™ degassing technology, and more.

Trusted by water treatment professionals for more than a generation, the PD Series chemical metering pump will continue to earn your trust for years to come.

Performance Specifications



Features and Benefits

- Shared drive platform with universal 115-230V, 50/60 Hz power supply
- Flows from 2 GPH (7.57 LPH) up to 450 PSI (30.6 BAR)
- Simplified capacity control with constant stroke length to maintain calibration across the adjustable range
- Advanced electronics with dynamic compensation for temperature and voltage conditions
- FastPrime™ liquid ends (standard) that allow fast and easy priming with integrated bleed valve
- AutoPrime™ liquid ends (optional), designed specifically for off-gassing liquids (See page 4 for performance specifications)
- Rugged construction with NEMA 4X/IP 65 housing for the harshest environments and outdoor use
- Compact footprint for efficient use of space in process applications or OEM configuration
- Agency certifications - NSF 61 and 50 (pending), ETL, CE
- Built on decades of experience and fully backed by LMI's two-year warranty



Manual Model

Enhanced Model

Output Range	.002 – 2.0 GPH (.008 – 7.6 LPH)
Pressure Range	50-450 PSI (3.4-30.6 BAR)
Max Stroke	160 SPM
Installation	Indoor/Outdoor
Supply Voltage	115-230V / 50-60Hz
Steady State Accuracy	+/- 3%
Repeatable Accuracy	+/- 3%

FastPrime™ Liquid Ends*

	PSI	GPH	BAR	LPH
PDx1	450	0.10	30.6	0.38
	300	0.20	20.4	0.76
	150	0.25	10.2	0.95
PDx4	250	0.35	17.0	1.32
	150	0.52	10.2	1.97
	50	0.68	3.4	2.57
PDx5	150	0.80	10.2	3.03
	110	1.00	7.5	3.79
	30	1.10	2.0	4.20
PDx6	70	1.70	4.8	6.44
	60	1.85	4.1	7.00
	50	2.00	3.4	7.57

*Standard on PD0 and PD7 models

Enhanced Functionality (PD7)

- **2.4" Color LCD** - Intuitive navigation allows you to configure and operate with ease – view status and alerts from a distance to confirm safe operation
- **External Control Inputs** - Automate your process with pulse pacing, remote start/stop, and tank level indication – ideal for proportional dosing
- **Calibration Assist** - Simply draw from a column and adjust the estimated value on-screen to the measured actual – calibration is that easy
- **System & User Totalizers** - An odometer for your pump that logs pump strokes, estimated volume, and power cycles – confirm pump operation between visits
- **StayPrime™ Degassing Technology** - Automates the priming cycle after a period of idle pump time to ensure prime

OUTPUT CODE 1 _____ 0.25 GPH (0.95 LPH); 450 psi (30.6 bar)

Drive End										
Control										
PD01		Manual Control			-					
PD71		Enhanced Control with Pulse Input, Remote Stop/Start, and Tank Level Input								
	Power Code									
	X		See Power Code Table							
		Liquid End		Head	Fittings	Balls	Seat / O-Rings	Connections	RPM Kit	
		Machined FastPrime™								
		907NP		316SS	316SS	316SS	316SS / PTFE	1/4" NPT	RPM-907	
PD01	1	-907	N	P						

OUTPUT CODE 4 _____ 0.68 GPH (2.6 LPH); 250 psi (17.0 bar)

Drive End									
Control									
PD04	Manual Control		-						
PD74	Enhanced Control with Pulse Input, Remote Stop/Start, and Tank Level Input								
	Power Code								
	X	See Power Code Table							
		Liquid End		Head	Fittings	Balls	Seat / O-Rings	RPM Kit	
		Molded FastPrime™							
		822	PVDF	PVDF	Ceramic	PTFE / Polyprel®	RPM-822		
		823	PVDF	PVDF	Ceramic	PTFE / Polyprel®	RPM-823		
		828	PVC	PVC	Ceramic	PTFE /Polyprel®	RPM-822		
		Machined FastPrime™							
		925	PP	PP	Ceramic	PTFE / Polyprel®	RPM-823		
		927	316SS	316SS	316SS	316SS / PTFE	RPM-927		
		928	PVC	PVC	Ceramic	PTFE / Polyprel®	RPM-822		
		929	Acrylic	PVDF	PTFE	Polyprel®	RPM-929		
		920	Acrylic	PVC	Ceramic	PTFE / Polyprel®	RPM-822		
		AutoPrime™							
		A28	PVC	PVC	Ceramic	PTFE / Polyprel®	RPM-A20A		
		A20	Acrylic	PVC	Ceramic	PTFE / Polyprel®	RPM-A20A		
			FastPrime Valve Code			AutoPrime Valve Code			
			S	with 4 Function Valve		H	with 4 Function Valve		
			N	-		A	-		
				Connection Code			Also sold as		
				I	Imperial		2		
				M	Metric		3		
	P			Pipe (1/4" NPT, 316SS only)		0			
	PD04	1	- 822	S	I				

POWER CODE TABLE

Power Code	Voltage	Frequency	Plug
1	115/230V	50-60 Hz	110-120V US Plug, UL
2	115/230V	50-60 Hz	220-240V US Plug, UL
3	115/230V	50-60 Hz	220-240V DIN Plug, CE
5	115/230V	50-60 Hz	220-240V UK Plug, CE
6	115/230V	50-60 Hz	220-240V Aust/NZ Plug

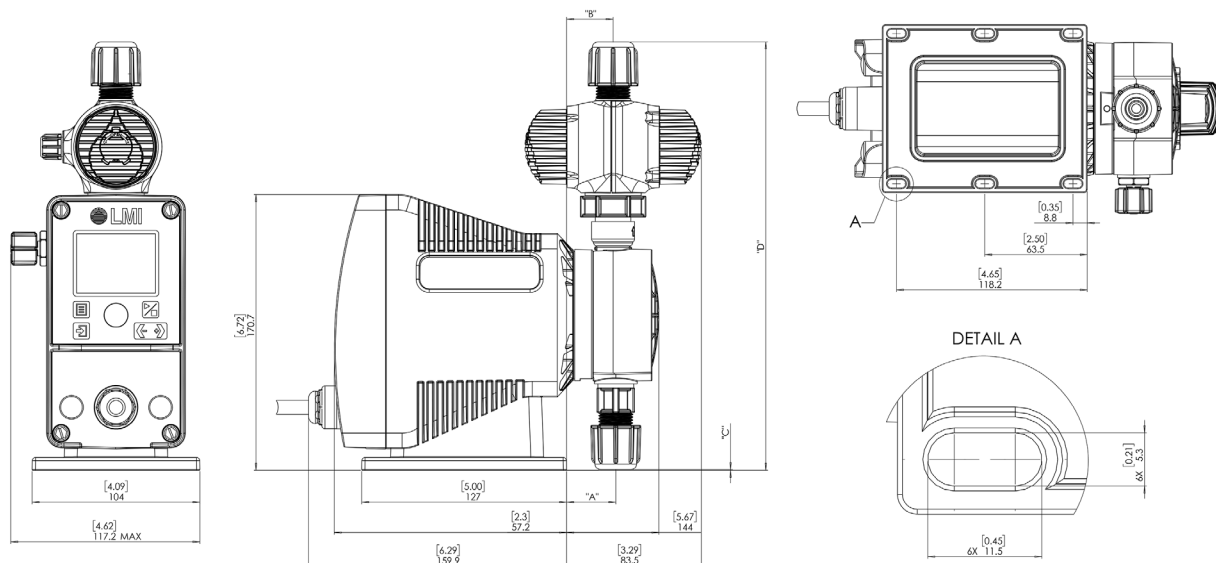
OUTPUT CODE 5 ————— 1.1 GPH (4.2 LPH); 150 psi (10.2 bar)

Drive End							
Control							
PD05		Manual Control		-			
PD75		Enhanced Control with Pulse Input, Remote Stop/Start, and Tank Level Input					
	Power Code						
	X	See Power Code Table					
		Liquid End	Head	Fittings	Balls	Seat / O-Rings	RPM Kit
		Molded FastPrime™					
		832	PVDF	PVDF	Ceramic	Polyprel®	RPM-832
		833	PVDF	PVDF	Ceramic	PTFE	RPM-833
		838	PVC	PVC	Ceramic	Polyprel®	RPM-832
		Machined FastPrime™					
		935	PP	PP	Ceramic	PTFE	RPM-833
		937	316SS	316SS	316SS	316SS / PTFE	RPM-937
		938	PVC	PVC	Ceramic	Polyprel®	RPM-832
		939	Acrylic	PVDF	PTFE	Polyprel®	RPM-939
		930	Acrylic	PVC	Ceramic	Polyprel®	RPM-832
		AutoPrime™					
		A38	PVC	PVC	Ceramic	PTFE / Polyprel®	RPM-A30A
		A30	Acrylic	PVC	Ceramic	PTFE / Polyprel®	RPM-A30A
			FastPrime Valve Code		AutoPrime Valve Code		
			S	with 4 Function Valve		H	with 4 Function Valve
			N	-		A	-
				Connection Code		Also sold as	
			I	Imperial	2		
			M	Metric	3		
			P	Pipe (1/4" NPT, 316SS only)	0		
PD05	1	- 832	S	I			

OUTPUT CODE 6 ————— 2.0 GPH (7.6 LPH); 70 psi (4.8 bar)

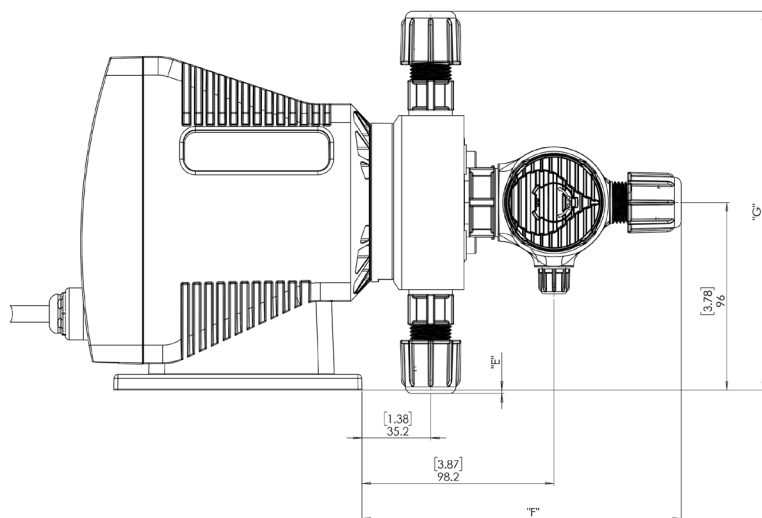
Drive End							
Control							
PD06	Manual Control	-					
PD76	Enhanced Control with Pulse Input, Remote Stop/Start, and Tank Level Input						
	Power Code						
	X	See Power Code Table					
		Liquid End	Head	Fittings	Balls	Seat / O-Rings	RPM Kit
		Molded FastPrime™					
		842	PVDF	PVDF	Ceramic	Polyprel®	RPM-842
		843	PVDF	PVDF	Ceramic	PTFE	RPM-843
		848	PVC	PVC	Ceramic	Polyprel®	RPM-842
		Machined FastPrime™					
		945	PP	PP	Ceramic	PTFE	RPM-843
		947	316SS	316SS	316SS	316SS / PTFE	RPM-947
		948	PVC	PVC	Ceramic	Polyprel®	RPM-842
		949	Acrylic	PVDF	PTFE	Polyprel®	RPM-949
		940	Acrylic	PVC	Ceramic	Polyprel®	RPM-842
		AutoPrime™					
		A48	PVC	PVC	Ceramic	PTFE / Polyprel®	RPM-A40A
		A40	Acrylic	PVC	Ceramic	PTFE / Polyprel®	RPM-A40A
			FastPrime Valve Code		AutoPrime Valve Code		
			S	with 4 Function Valve	H	with 4 Function Valve	
			N	-	A	-	
				Connection Code		Also sold as	
				I	Imperial	2	
				M	Metric	3	
	P	Pipe (1/4" NPT, 316SS only)		0			
PD06	1	- 842	S	I			

Dimensions



LIQUID END MODEL	"A"		"B"		"C"		"D"	
	INCH	MM	INCH	MM	INCH	MM	INCH	MM
LE-7XXNX	1.20	30.5	1.13	28.8	0.34	8.6	7.84	199.2
LE-7XXNX	1.20	30.5	1.13	28.8	0.34	8.6	10.45	265.4
LE-8XXNX	1.20	30.5	1.13	28.8	0.01	0.3	8.17	207.5
LE-8XXSX	1.20	30.5	1.13	28.8	0.01	0.3	10.45	265.4
LE-90XNX, LE-92XNX, LE-93XNX	1.39	35.2	1.39	35.2	0.10	2.5	7.47	189.7
LE-90XSX, LE-92XSX, LE-93XSX	1.39	35.2	1.39	35.2	0.10	2.5	9.75	247.6
LE-94XNX	1.39	35.2	1.39	35.2	-0.07	-1.8	7.64	194
LE-94XSX	1.39	35.2	1.39	35.2	-0.07	-1.8	9.92	251.9

AUTOPRIME™ LIQUID END



LIQUID END MODEL	"E"		"F"		"G"	
	INCH	MM	INCH	MM	INCH	MM
LE-A1XNX, LE-A2XNX, LE-A3XNX	-0.10	-2.5	4.15	105.4	7.46	189.6
LE-A1XSX, LE-A2XSX, LE-A3XSX	-0.10	-2.5	6.43	163.3	7.46	189.6
LE-A4XNX	0.07	1.8	4.15	105.4	7.63	193.8
LE-A4XSX	0.07	1.8	6.43	163.3	7.63	193.8

Performance Specifications

AutoPrime™ Degassing Liquid Ends		PSI	GPH	BAR	LPH
		250	0.20	17.0	0.76
PDx4		150	0.30	10.2	1.14
		110	0.75	7.5	2.84
		50	0.85	3.4	3.22
PDx5		50	1.75	3.4	6.62
		30	1.85	2.0	7.00