# DATA SHEET PD Series **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<sup>™</sup> 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<sup>™</sup> 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.



### Manual Model

160 SPM

+/- 3%

+/- 3%

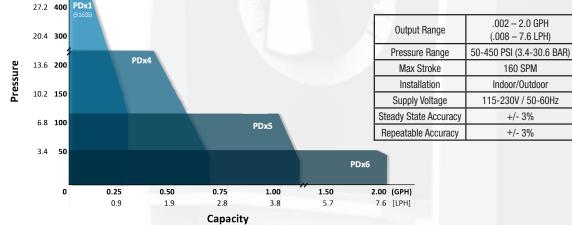
### Enhanced Model



	PSI	GPH	BAR	LPH
	450	0.10	30.6	0.38
PDx1	300	0.20	20.4	0.76
	150	0.25	10.2	0.95
	250	0.35	17.0	1.32
PDx4	150	0.52	10.2	1.97
	50	0.68	3.4	2.57
PDx5	110	1.00	7.5	3.79
-	30	1.10	2.0	4.20
PDx6	50	2.00	3.4	7.57

\*Standard on PD0 and PD7 models

**Performance Specifications** [BAR] (PSI)



## **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<sup>™</sup> liquid ends (standard) that allow fast and easy priming with integrated bleed valve
- AutoPrime<sup>™</sup> 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 warrantv

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, 4-20 mA analog input\*, 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<sup>™</sup> Degassing Technology Automates the priming cycle after a period of idle pump time to ensure prime



\*4-20 mA Analog Input usage requires the MP-100 Pulse Pacer and the 57958 adapter cable.



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

Drive E	Ind									
Contro	bl									
PD01		Manu	al Control		-					
PD71		Enhar	nced Cont	rol with	Pulse Inp	ut, Remote Sto	p/Start, and Ta	ank Level Input		
	Powe	r Code								
	Х	See P	ower Cod	e Table						
		Liquid	d End		Head	Fittings	Balls	Seat / O-Rings	Connections	RPM Kit
	Machined FastPrime <sup>™</sup>									
		907NI	Р		316SS	316SS	316SS	316SS / PTFE	1/4" NPT	RPM-907
PD01	1	-907	N	Р						

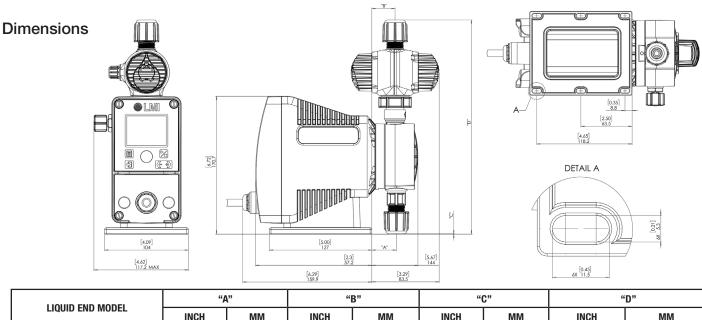
OUTPUT CODE 4 \_\_\_\_\_ 0.68 GPH (2.6 LPH); 250 psi (17.0 bar)

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Contro	)I										
PD04			al Conti		-						
PD74			nced Co	ntrol with	n Pulse Input, F	Remote Stop/Sta	rt, and Tank	Level Input			
	Powe	r Code									
	Х			ode Table							
		Liquio	d End		Head	Fittings	Balls	Seat / O-Rings	RPM Kit		
		Molde	ed Fast	Prime™							
		8	22		PVDF	PVDF	Ceramic	PTFE / Polyprel®	RPM-822		
		8	23		PVDF	PVDF	Ceramic	PTFE / Polyprel®	RPM-823		
		8	28		PVC	PVC	Ceramic	PTFE /Polyprel®	RPM-822		
		Mach	ined Fa	astPrime	тм						
		9	25		PP	PP	Ceramic	PTFE / Polyprel®	RPM-823		
		9	27		316SS	316SS	316SS	316SS / PTFE	RPM-927		
		9	28		PVC	PVC	Ceramic	PTFE / Polyprel®	RPM-822		
		9	29		Acrylic	PVDF	PTFE	Polyprel®	RPM-929		
		9	20		Acrylic	PVC	Ceramic	PTFE / Polyprel®	RPM-822		
		AutoP	rime™	1							
		A	28		PVC	PVC	Ceramic	PTFE / Polyprel®	RPM-A20A		
		A	20		Acrylic	PVC	Ceramic	PTFE / Polyprel®	RPM-A20A		
		High V	iscosit	у							
		62	24VI		PP	PP	316SS	PTFE	RPM-624		
		62	26VI		Acrylic	PP	316SS	PTFE	RPM-626		
		FastPrime Valve Code				Auto	AutoPrime Valve Code				
			S	with 4	Function Valve	e H	with 4	Function Valve			
			N	-		А	-				
		Connection Code				Also s	old as				
				I	Imperial		2	2			
				М	Metric		3	3			
				Р	Pipe (1/4" N	IPT, 316SS only)	(	)			
PD04	1	- 822	S	I							

## POWER CODE TABLE

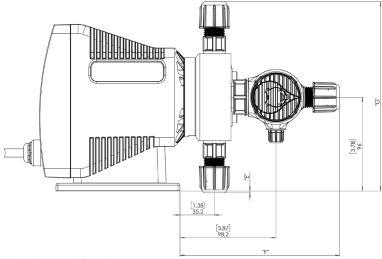
Power Code	Voltage	Frequency	Plug
1	115/230V	50-60 Hz	110-120V US Plug, UL
2	115/230V	50-60 Hz	220-240V US Plug, UL
3	115/230V	50-60 Hz	220-240V DIN Plug, CE
5	115/230V	50-60 Hz	220-240V UK Plug, CE
6	115/230V	50-60 Hz	220-240V Aust/NZ Plug

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ntrol											
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	wer Code	er Code									
X			ode Table								
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			Prime™								
	83		PVDF	PVDF	Ceramic	Polyprel®	RPM-832				
	83		PVDF	PVDF	Ceramic	PTFE	RPM-833				
	83	38	PVC	PVC	Ceramic	Polyprel®	RPM-832				
	Machi	ned Fa	stPrime™								
	93		PP	PP	Ceramic	PTFE	RPM-833				
	93		316SS	316SS	316SS	316SS / PTFE	RPM-937				
	93		PVC	PVC	Ceramic	Polyprel®	RPM-832				
	93		Acrylic	PVDF	PTFE	Polyprel®	RPM-939				
	93		Acrylic	PVC	Ceramic	Polyprel®	RPM-832				
	AutoPr										
	AS		PVC	PVC	Ceramic	PTFE / Polyprel®	RPM-A30A				
	Aa		Acrylic	PVC	Ceramic	PTFE / Polyprel <sup>®</sup>	RPM-A30A				
	High Vi	-			01000						
	634		PP	PP	316SS	PTFE	RPM-634				
	63		Acrylic	PP	316SS	PTFE	RPM-636				
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		S	with 4 Function Valv			unction Valve					
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			I Imperial								
			M Metric		3						
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LIQUID END MODEL	INCH	ММ	INCH	ММ	INCH	ММ	INCH	ММ
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	"	E"		"F"	"G"		
END MODEL	INCH	ММ	INCH	ММ	INCH	ММ	
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<sup>™</sup> Degassing Liquid Ends

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	PSI	GPH	BAR	LPH
	250	0.20	17.0	0.76
PDx4	150	0.30	10.2	1.14
PDx5	110	0.75	7.5	2.84
FDAJ	50	0.85	3.4	3.22
PDx6	50	1.75	3.4	6.62
	30	1.85	2.0	7.00

### About Ingersoll Rand Inc.

Ingersoll Rand Inc. (NYSE:IR), driven by an entrepreneurial spirit and ownership mindset, is dedicated to helping make life better for our employees, customers and communities. Customers lean on us for our technology-driven excellence in mission-critical flow creation and industrial solutions across 40+ respected brands where our products and services excel in the most complex and harsh conditions. Our employees develop customers for life through their daily commitment to expertise, productivity and efficiency. For more information, visit www.IRCO.com



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