

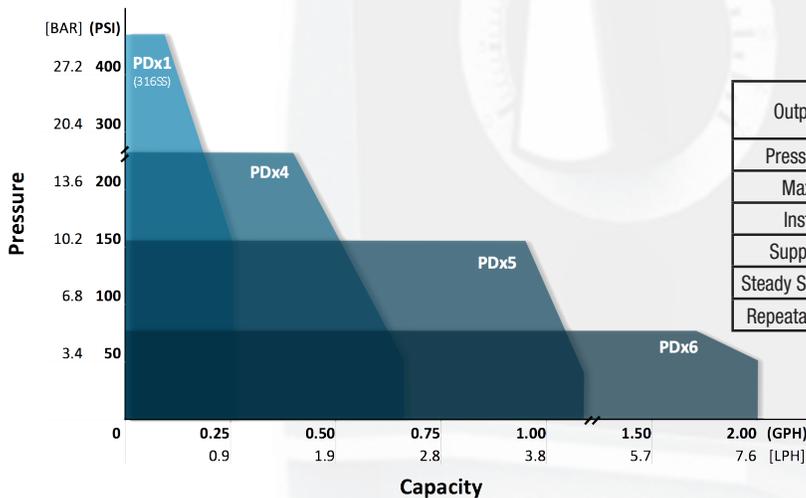
## Chemical Metering Pump

### 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



|                       |                                    |
|-----------------------|------------------------------------|
| Output Range          | .002 – 2.0 GPH<br>(.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 |
| PDx4 | 150 | 0.25 | 10.2 | 0.95 |
|      | 250 | 0.35 | 17.0 | 1.32 |
| PDx5 | 150 | 0.52 | 10.2 | 1.97 |
|      | 50  | 0.68 | 3.4  | 2.57 |
| PDx6 | 150 | 0.80 | 10.2 | 3.03 |
|      | 110 | 1.00 | 7.5  | 3.79 |
| PDx6 | 30  | 1.10 | 2.0  | 4.20 |
|      | 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



Manual Model

Enhanced Model

### 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

### 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 |

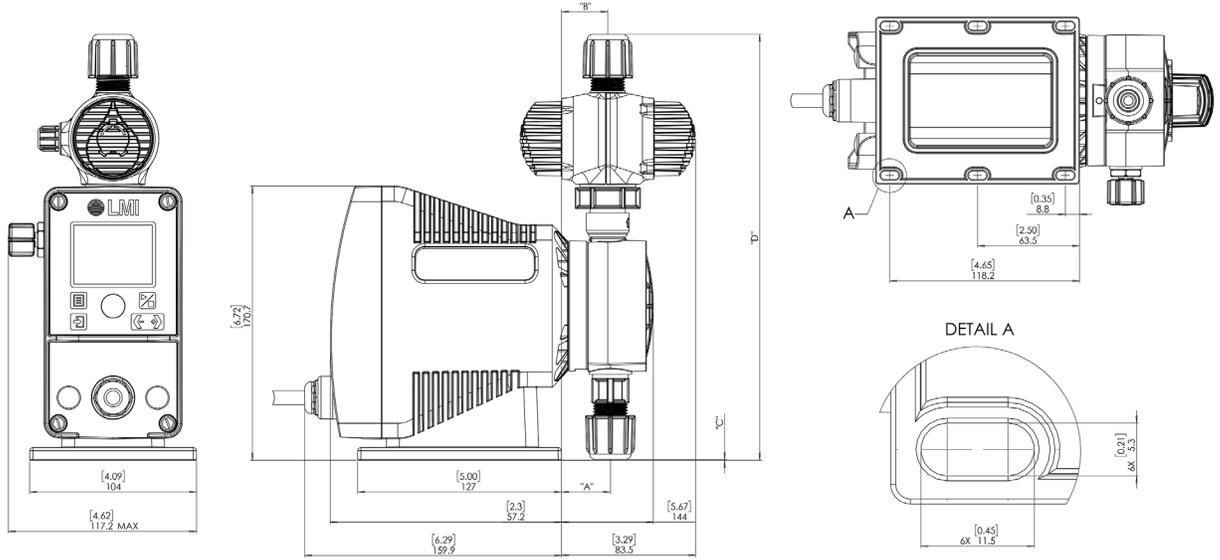
OUTPUT CODE 5 ————— 1.1 GPH (4.2 LPH); 150 psi (10.2 bar)

| 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)

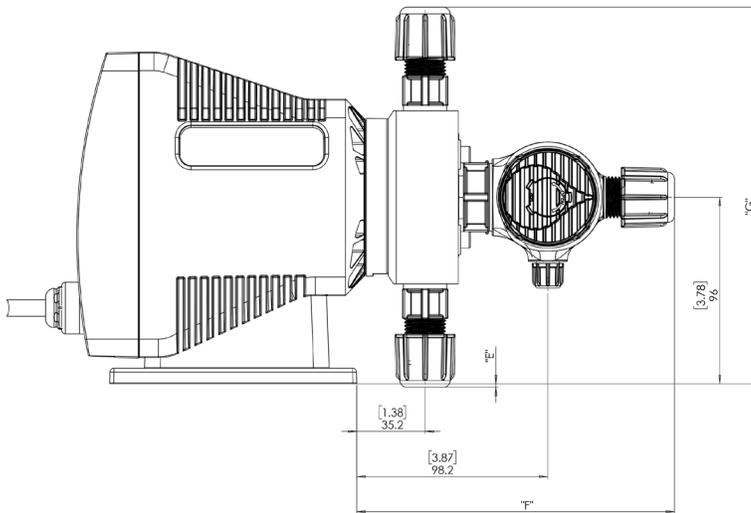
| Drive End            |  |          |                      |                       |          |
|----------------------|--|----------|----------------------|-----------------------|----------|
| Control              |  |          |                      |                       |          |
| PD06                 | 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

|                  | PSI | GPH  | BAR  | LPH  |
|------------------|-----|------|------|------|
| AutoPrime™ PDx4  | 250 | 0.20 | 17.0 | 0.76 |
|                  | 150 | 0.30 | 10.2 | 1.14 |
| Degassing PDx5   | 110 | 0.75 | 7.5  | 2.84 |
|                  | 50  | 0.85 | 3.4  | 3.22 |
| Liquid Ends PDx6 | 50  | 1.75 | 3.4  | 6.62 |
|                  | 30  | 1.85 | 2.0  | 7.00 |