# Electronic dosing pump
# LMI ROYTRONIC® series P+ - FastPrime™

DOSAPRO

## P+0 series

- Fixed frequency: 120 or 240 spm
- Adjustable stroke length: 20 to 100%

## P+1 series

- Adjustable frequency: 1 to 120 or 240 spm
- Adjustable stroke length: 20 to 100%

## P+7 series

- Adjustable frequency: 1 to 120 or 240 spm
- Adjustable stroke length: 20 to 100%
- External control by pulses
- Stop by low level detector

## P+8 series

- Adjustable frequency: 1 to 120 or 240 spm
- Adjustable stroke length: 20 to 100%
- External control by 4-20 mA signal
- Stop by low level detector

## Main technical specifications

- Mechanically actuated diaphragm electromagnetic pump
- Maximum output: 12.1 l/h
- Maximum pressure: 17.3 bar
- Maximum temperature of pumped chemical: 50 °C
- Self priming height: 1.5 m
- Accuracy: ± 2% of adjusted output

## Simple rugged construction

- Thick wall IXEF reinforced thermoplastic construction plus integrated metal-plastic structural and magnetic components resulting in vibration and shock resistance not ordinarily found in competitive products.
- Strong automotive type wiring and electrical connectors add to its construction strength.

## Unique features

- The new FastPrime™ liquid ends are equipped with a bleed port.
- Clog resistant injection check valves with flexible flapper nozzle are standard.
- Stroke indicator light flashes when the pump is stroking.
- The P+7 and P+8 series allow an optional low-level float switch which connects to a new low-level connector (3-Pin) and low-level indicator light, warning when chemical level is low.

*ROYTRONIC® electronic dosing pumps equipped with FastPrime™ liquid end*

## Wide variety of applications

- Pump heads in PVC, PVDF, PP or Acrylic and valves (ceramic or PTFE balls, Aflas® or PTFE seats) assure reliable and leak free operation in a wide variety of chemicals.
- Composite pump diaphragms are in superior Fluorofilm™.
- Better pumping efficiency due to double ball check valve.
- More material combinations for greater pump flexibility and application robustness.

## Totally enclosed corrosion resistant IP65

- O-Ring sealed corrosion resistant enclosure protects the pump from harsh chemicals.
- A clear cover protects control panel from weather and chemical splashes.
- The external control connections are industrial watertight M12 (IP68).

## Accessories

- The ROYTRONIC® are supplied with:
  1. Injection check valve,
  2. Foot valve,
  3. Ceramic weight,
  4. 2 m bleed tubing.
  5. The P+7 and P+8 series are delivered with an external control cable (2 m).

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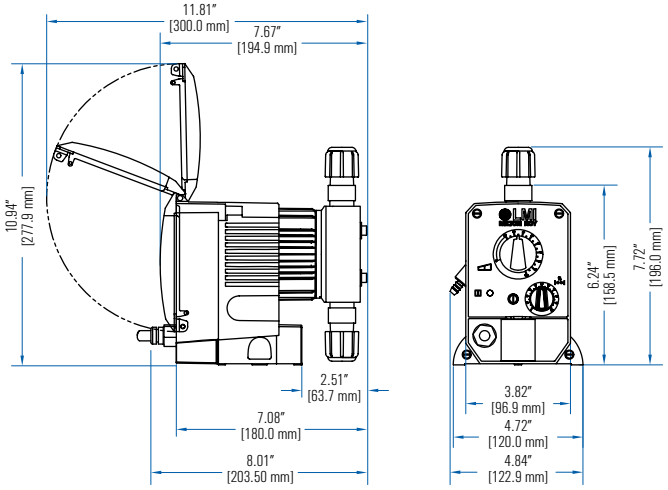
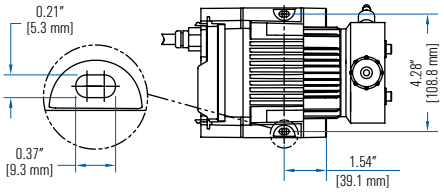
## Specifications

| Model | Output (l/h) max. | Pressure (bar) max. | Diaphragm size (inch²) | Stroke capacity (ml) min. | Stroke capacity (ml) max. | Frequency (spm) min. - max. | Liquid end body material / Seat material: Acrylic Aflas® / Ceramic balls | PVDF Aflas® / Ceramic balls | PVDF PTFE / Ceramic balls | PP PTFE / Ceramic balls | PVC Aflas® / Ceramic balls | Acrylic Aflas® / PTFE balls | Tubing connections: LDPE Inch | LDPE Metric | Reinforced PVC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P+01* | 0.9 | 17.3 | 0.2 | 0.03 | 0.13 | 120 | 910NX | 812NX | 813NX | 915NX | 818NX | 919NX | .250"OD | 3x6 mm | 6x12 mm |
| P+04* | 1.9 | 17.3 | 0.2 | 0.03 | 0.13 | 240 | 910NX | 812NX | 813NX | 915NX | 818NX | 919NX | .250"OD | 3x6 mm | 6x12 mm |
| P+05* | 3.8 | 7.6 | 0.4 | 0.05 | 0.26 | 240 | 920NX | 822NX | 823NX | 925NX | 828NX | 929NX | .375"OD | 6x8 mm | 6x12 mm |
| P+06* | 7.6 | 3.4 | 0.8 | 0.11 | 0.53 | 240 | 930NX | 832NX | 833NX | 935NX | 838NX | 939NX | .375"OD | 6x8 mm | 6x12 mm |
| P+08* | 12.1 | 1.5 | 0.8 | 0.17 | 0.84 | 240 | 930NX | 832NX | 833NX | 935NX | 838NX | 939NX | .375"OD | 6x8 mm | 6x12 mm |
| P+11* | 0.9 | 17.3 | 0.2 | 0.03 | 0.13 | 1-120 | 910NX | 812NX | 813NX | 915NX | 818NX | 919NX | .250"OD | 3x6 mm | 6x12 mm |
| P+14* | 1.9 | 17.3 | 0.2 | 0.03 | 0.13 | 1-240 | 910NX | 812NX | 813NX | 915NX | 818NX | 919NX | .250"OD | 3x6 mm | 6x12 mm |
| P+15* | 3.8 | 7.6 | 0.4 | 0.05 | 0.26 | 1-240 | 920NX | 822NX | 823NX | 925NX | 828NX | 929NX | .375"OD | 6x8 mm | 6x12 mm |
| P+16* | 7.6 | 3.4 | 0.8 | 0.11 | 0.53 | 1-240 | 930NX | 832NX | 833NX | 935NX | 838NX | 939NX | .375"OD | 6x8 mm | 6x12 mm |
| P+18* | 12.1 | 1.5 | 0.8 | 0.17 | 0.84 | 1-240 | 930NX | 832NX | 833NX | 935NX | 838NX | 939NX | .375"OD | 6x8 mm | 6x12 mm |
| P+71* | 0.9 | 17.3 | 0.2 | 0.03 | 0.13 | 1-120 | 910NX | 812NX | 813NX | 915NX | 818NX | 919NX | .250"OD | 3x6 mm | 6x12 mm |
| P+74* | 1.9 | 17.3 | 0.2 | 0.03 | 0.13 | 1-240 | 910NX | 812NX | 813NX | 915NX | 818NX | 919NX | .250"OD | 3x6 mm | 6x12 mm |
| P+75* | 3.8 | 7.6 | 0.4 | 0.05 | 0.26 | 1-240 | 920NX | 822NX | 823NX | 925NX | 828NX | 929NX | .375"OD | 6x8 mm | 6x12 mm |
| P+76* | 7.6 | 3.4 | 0.8 | 0.11 | 0.53 | 1-240 | 930NX | 832NX | 833NX | 935NX | 838NX | 939NX | .375"OD | 6x8 mm | 6x12 mm |
| P+78* | 12.1 | 1.5 | 0.8 | 0.17 | 0.84 | 1-240 | 930NX | 832NX | 833NX | 935NX | 838NX | 939NX | .375"OD | 6x8 mm | 6x12 mm |
| P+81* | 0.9 | 17.3 | 0.2 | 0.03 | 0.13 | 1-120 | 910NX | 812NX | 813NX | 915NX | 818NX | 919NX | .250"OD | 3x6 mm | 6x12 mm |
| P+84* | 1.9 | 17.3 | 0.2 | 0.03 | 0.13 | 1-240 | 910NX | 812NX | 813NX | 915NX | 818NX | 919NX | .250"OD | 3x6 mm | 6x12 mm |
| P+85* | 3.8 | 7.6 | 0.4 | 0.05 | 0.26 | 1-240 | 920NX | 822NX | 823NX | 925NX | 828NX | 929NX | .375"OD | 6x8 mm | 6x12 mm |
| P+86* | 7.6 | 3.4 | 0.8 | 0.11 | 0.53 | 1-240 | 930NX | 832NX | 833NX | 935NX | 838NX | 939NX | .375"OD | 6x8 mm | 6x12 mm |
| P+88* | 12.1 | 1.5 | 0.8 | 0.17 | 0.84 | 1-240 | 930NX | 832NX | 833NX | 935NX | 838NX | 939NX | .375"OD | 6x8 mm | 6x12 mm |

* When ordering, specify the voltage code by using one of the following numbers:
3 – 230 V, EEC plug
5 – 230 V, UK plug
8 – 115 V, without plug

## Dimensions




The general dimensions are given as an indication only.
The dimensions given correspond to the maximum dimensions.

## Weight and packing

| Version | Net weight (*) kg | Gross weight (*) kg | Packing (mm) (L x W x H) |
|---|---|---|---|
| ROYTRONIC® - FastPrime™ | 3.60 | 4.85 | 280 x 260 x 240 |

(*) Approximately

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