



## Configuration Data

Model **P14 1 - 358SI**

Series **P**

## Electronic Metering Pumps

### Manual Control

Speed (stroking frequency) fixed and stroke length manually adjustable.

P02 --- 0.20 GPH (0.79 l/h) --- 150 psi (10.3 Bar)  
 P03 --- 0.42 GPH (1.6 l/h) --- 110 psi (7.6 Bar)  
 P04 --- 0.58 GPH (2.2 l/h) --- 250 psi (17.3 Bar)  
 P05 --- 1.00 GPH (3.8 l/h) --- 110 psi (7.6 Bar)  
 P06 --- 2.00 GPH (7.6 l/h) --- 50 psi (3.5 Bar)  
 P08 --- 3.20 GPH (12.1 l/h) --- 22 psi (1.5 Bar)

### Dual Manual Control

Speed (stroking frequency) and stroke length manually adjustable.

P12 --- 0.20 GPH (0.79 l/h) --- 150 psi (10.3 Bar)  
 P13 --- 0.42 GPH (1.6 l/h) --- 110 psi (7.6 Bar)  
 P14 --- 0.58 GPH (2.2 l/h) --- 250 psi (17.3 Bar)  
 P15 --- 1.00 GPH (3.8 l/h) --- 110 psi (7.6 Bar)  
 P16 --- 2.00 GPH (7.6 l/h) --- 50 psi (3.5 Bar)  
 P18 --- 3.20 GPH (12.1 l/h) --- 22 psi (1.5 Bar)

### Instrument Responsive / Manual

Manual adjustment features of Series P1 plus switch conversion to external control for automatic systems.

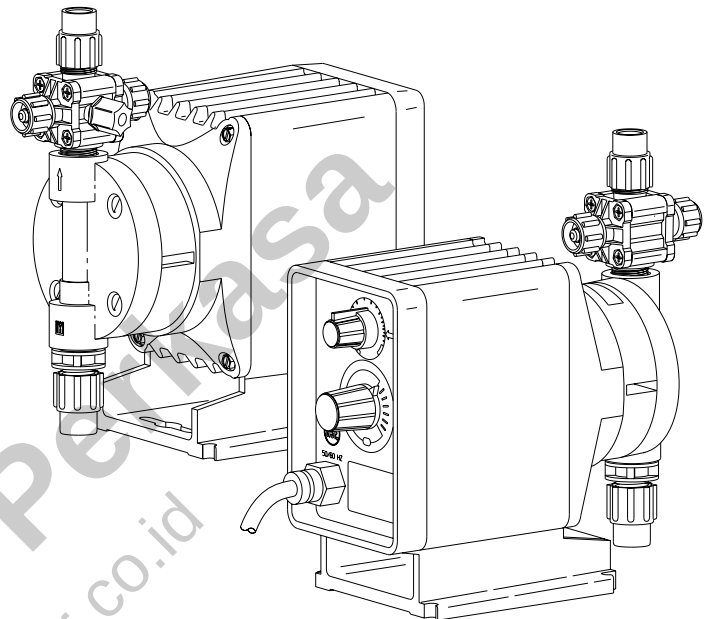
P74 --- 0.58 GPH (2.2 l/h) --- 250 psi (17.3 Bar)  
 P75 --- 1.00 GPH (3.8 l/h) --- 110 psi (7.6 Bar)  
 P76 --- 2.00 GPH (7.6 l/h) --- 50 psi (3.5 Bar)  
 P78 --- 3.20 GPH (12.1 l/h) --- 22 psi (1.5 Bar)

### Voltage Code

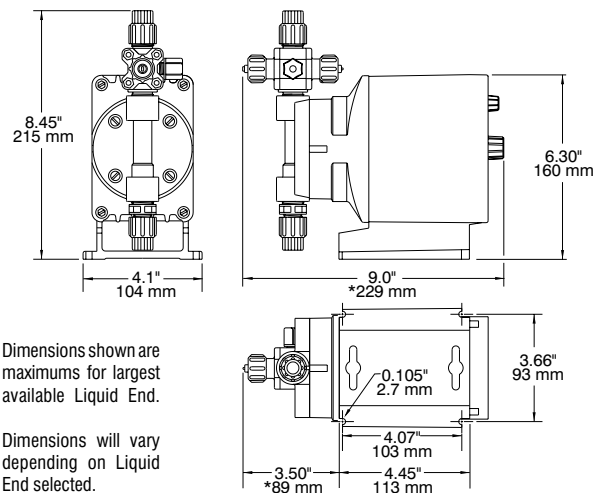
1 ----- 120 VAC US Plug  
 2 ----- 240 VAC US Plug  
 3 ----- 220-240 VAC DIN Plug  
 5 ----- 240-250 VAC, UK Plug  
 6 ----- 240-250 VAC, Aust./NZ Plug  
 7 ----- 220 VAC, Swiss Plug

### Liquid End

See next page for complete liquid end specifications and selection.



## Dimensions



## Specifications

| Series  | Strokes Per Minute (Adjustable) |     | Stroke Length (Adjustable) Recommended Minimum | Average Input Power @ Max Speed | Shipping Weight  |
|---------|---------------------------------|-----|------------------------------------------------|---------------------------------|------------------|
|         | Min                             | Max |                                                |                                 |                  |
| P02,P03 | fixed - 60                      |     | 30%                                            | 22 watts                        | 7.6 lbs (3.5 kg) |
| P04,P05 |                                 |     |                                                |                                 |                  |
| P06,P08 | fixed - 100                     |     | 20%                                            |                                 |                  |
| P12,P13 | .6                              | 60  | 30%                                            |                                 |                  |
| P14,P74 | 1                               | 100 | 20%                                            |                                 |                  |
| P15,P75 |                                 |     |                                                |                                 |                  |
| P16,P76 |                                 |     |                                                |                                 |                  |
| P18,P78 |                                 |     |                                                |                                 |                  |



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## Configuration Data & Materials of Construction

| Drive Assembly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Liquid End No. | Size Code | Materials of Construction |         |             |                  | Accessory | Tubing & Connections         |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|---------------------------|---------|-------------|------------------|-----------|------------------------------|---------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |           | Head & Fittings           | Balls   | Liquifram™  | Check Valve      |           | Discharge                    | Suction |
| P02  -<br>P04  -<br>P12  -<br>P14  -<br>P74  -                                                                                             | 458SI†         | 0.5       | PVC / PVC                 | Ceramic | Fluorofilm™ | PVDF / Polyprel® | 4FV       | PE .250" O.D.                |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 450SI†         | 0.5       | Acrylic / PVC             | Ceramic | Fluorofilm™ | PVDF / Polyprel® | 4FV       | PE .250" O.D.                |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 450FI†         | 0.5       | Acrylic / PVC             | PTFE    | Fluorofilm™ | PVDF / Polyprel® | 4FV       | PE .250" O.D.                |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 358SI†         | 0.5       | PVC / PVC                 | Ceramic | Fluorofilm™ | PVDF / Polyprel® | 4FV       | PE .250" O.D.                |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 353SI†         | 0.5       | PVDF / PVDF               | Ceramic | Fluorofilm™ | PVDF / PTFE      | 4FV       | PE .250" O.D.                |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 352SI†         | 0.5       | PVDF / PVDF               | Ceramic | Fluorofilm™ | PVDF / Polyprel® | 4FV       | PE .250" O.D.                |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 156HV          | 0.5       | Acrylic / PP              | 316S.S. | Fluorofilm™ | Hypalon®         |           | PE .5" O.D. Vinyl .938" O.D. |         |
| P03  -<br>P05  -<br>P13  -<br>P15  -<br>P75  -                                                                                             | 155HV          | 0.5       | Polypropylene             | 316S.S. | Fluorofilm™ | PTFE             |           | PE .5" O.D. Vinyl .938" O.D. |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 257            | 0.5       | 316S.S.                   | 316S.S. | Fluorofilm™ | 316S.S.          |           | Pipe 1/4" NPT M              |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 498SI†         | 0.9       | PVC / PVC                 | Ceramic | Fluorofilm™ | PVDF / Polyprel® | 4FV       | PE .375" O.D.                |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 490SI†         | 0.9       | Acrylic / PVC             | Ceramic | Fluorofilm™ | PVDF / Polyprel® | 4FV       | PE .375" O.D.                |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 490FI†         | 0.9       | Acrylic / PVC             | PTFE    | Fluorofilm™ | PVDF / Polyprel® | 4FV       | PE .375" O.D.                |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 398SI†         | 0.9       | PVC / PVC                 | Ceramic | Fluorofilm™ | PVDF / Polyprel® | 4FV       | PE .375" O.D.                |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 393SI†         | 0.9       | PVDF / PVDF               | Ceramic | Fluorofilm™ | PVDF / PTFE      | 4FV       | PE .375" O.D.                |         |
| P06  -<br>P08  -<br>P16  -<br>P18  -<br>P76  -<br>P78  - | 392SI†         | 0.9       | PVDF / PVDF               | Ceramic | Fluorofilm™ | PVDF / Polyprel® | 4FV       | PE .375" O.D.                |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 86HV           | 0.9       | Acrylic / PP              | 316S.S. | Fluorofilm™ | Hypalon®         |           | PE .5" O.D. Vinyl .938" O.D. |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 85HV           | 0.9       | Polypropylene             | 316S.S. | Fluorofilm™ | PTFE             |           | PE .5" O.D. Vinyl .938" O.D. |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 297            | 0.9       | 316S.S.                   | 316S.S. | Fluorofilm™ | 316S.S.          |           | Pipe 1/4" NPT M              |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 468SI†         | 1.8       | PVC / PVC                 | Ceramic | Fluorofilm™ | PVDF / Polyprel® | 4FV       | PE .375" O.D.                |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 460SI†         | 1.8       | Acrylic / PVC             | Ceramic | Fluorofilm™ | PVDF / Polyprel® | 4FV       | PE .375" O.D.                |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 460FI†         | 1.8       | Acrylic / PVC             | PTFE    | Fluorofilm™ | PVDF / Polyprel® | 4FV       | PE .375" O.D.                |         |
| P18  -<br>P76  -<br>P78  -                                                                                                                                                                                                                                                                                  | 368SI†         | 1.8       | PVC / PVC                 | Ceramic | Fluorofilm™ | PVDF / Polyprel® | 4FV       | PE .375" O.D.                |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 363SI†         | 1.8       | PVDF / PVDF               | Ceramic | Fluorofilm™ | PVDF / PTFE      | 4FV       | PE .375" O.D.                |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 362SI†         | 1.8       | PVDF / PVDF               | Ceramic | Fluorofilm™ | PVDF / Polyprel® | 4FV       | PE .375" O.D.                |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 76HV           | 1.8       | Acrylic / PP              | 316S.S. | Fluorofilm™ | Hypalon®         |           | PE .5" O.D. Vinyl .938" O.D. |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 75HV           | 1.8       | Polypropylene             | 316S.S. | Fluorofilm™ | PTFE             |           | PE .5" O.D. Vinyl .938" O.D. |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 277            | 1.8       | 316S.S.                   | 316S.S. | Fluorofilm™ | 316S.S.          |           | Pipe 1/4" NPT M              |         |

 See front page for voltage code specifications.

**3FV** indicates that the pump is equipped with an LMI Three Function Valve (pressure relief, priming aid, line drain).

Fluorofilm™ is a copolymer of PTFE and PFA.  
Polyprel® is an elastomeric PTFE copolymer.

† To specify 1/4" NPT male, change 'I' to 'P'. To specify black, UV resistant tubing, change 'I' to 'U'. To specify Bleed 4FV, change 'S' to 'B'. To specify 3FV, change 'S' to 'T'.

**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. It provides anti-syphon protection and aids in priming, even under pressure.

Polyprel is a registered trademark of Liquid Metronics Incorporated.  
Fluorofilm and Liquifram are trademarks of Liquid Metronics Incorporated.  
Hypalon is a registered trademark of E. I. du Pont de Nemours & Co., Inc.

## Output Information

| Series   | Gallons per Hour |      | Liters per Hour |      | mL/cc per Minute |     | mL/cc per Stroke |      | Maximum Injection Pressure |            |
|----------|------------------|------|-----------------|------|------------------|-----|------------------|------|----------------------------|------------|
|          | Min              | Max  | Min             | Max  | Min              | Max | Min              | Max  |                            |            |
| P02      | 0.063            | 0.21 | 0.237           | 0.79 | 3.94             | 13  | 0.07             | 0.22 | 150 psi                    | (10.3 Bar) |
| P03      | 0.125            | 0.42 | 0.473           | 1.6  | 7.89             | 26  | 0.13             | 0.44 | 110 psi                    | (7.6 Bar)  |
| P04      | 0.117            | 0.58 | 0.442           | 2.2  | 7.36             | 37  | 0.07             | 0.37 | 250 psi                    | (17.3 Bar) |
| P05      | 0.200            | 1.0  | 0.757           | 3.8  | 12.62            | 63  | 0.13             | 0.63 | 110 psi                    | (7.6 Bar)  |
| P06      | 0.400            | 2.0  | 1.510           | 7.6  | 25.23            | 126 | 0.25             | 1.26 | 50 psi                     | (3.5 Bar)  |
| P08      | 0.640            | 3.2  | 2.422           | 12.1 | 40.37            | 202 | 0.40             | 2.02 | 22 psi                     | (1.5 Bar)  |
| P12      | 0.001            | 0.21 | 0.002           | 0.79 | 0.04             | 13  | 0.07             | 0.22 | 150 psi                    | (10.3 Bar) |
| P13      | 0.001            | 0.42 | 0.005           | 1.6  | 0.08             | 27  | 0.13             | 0.44 | 110 psi                    | (7.6 Bar)  |
| P14, P74 | 0.001            | 0.58 | 0.004           | 2.2  | 0.07             | 37  | 0.07             | 0.37 | 250 psi                    | (17.3 Bar) |
| P15, P75 | 0.002            | 1.0  | 0.008           | 3.8  | 0.13             | 63  | 0.13             | 0.63 | 110 psi                    | (7.6 Bar)  |
| P16, P76 | 0.004            | 2.0  | 0.015           | 7.6  | 0.25             | 126 | 0.25             | 1.26 | 110 psi                    | (7.6 Bar)  |
| P18, P78 | 0.006            | 3.2  | 0.024           | 12.1 | 0.40             | 202 | 0.40             | 2.02 | 22 psi                     | (1.5 Bar)  |

