



# 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          |
| B91  -<br>B92  -<br>B71  -<br>B72  -<br>B11  -<br>B12  - | 390SI†         | 0.9       | Acrylic / PGC™            | Ceramic     | Fluorofilm™ | PGC™/Polyprel® | 4FV             | PE .375" O.D.        |                  |
|  | 391SI†         | 0.9       | PGC™ / PGC™               | Ceramic     | Fluorofilm™ | PGC™/Polyprel® | 4FV             | PE .375" O.D.        |                  |
|  | 392SI†         | 0.9       | PVDF / PVDF               | Ceramic     | Fluorofilm™ | PVDF/Polyprel® | 4FV             | PE .375" O.D.        |                  |
|  | 393SI†         | 0.9       | PVDF / PVDF               | Ceramic     | Fluorofilm™ | PVDF/PTFE      | 4FV             | PE .375" O.D.        |                  |
|  | 85 HV          | 0.9       | Polypropylene             | 316 S.S.    | Fluorofilm™ | PTFE           |                 | PE .5" O.D.          | Vinyl .938" O.D. |
|  | 86             | 0.9       | Acrylic / PP              | 316 S.S.    | Fluorofilm™ | Hypalon®       |                 | PE .5" O.D.          | Vinyl .938" O.D. |
|  | 89             | 0.9       | UHMW PE                   | Ceramic     | Hypalon®    | Hypalon®       |                 | PE .5" O.D.          | Vinyl .500" O.D. |
|  | 91FS           | 0.9       | Acrylic / PVDF            | PTFE        | Hypalon®    | Hypalon®       | 4FV             | PE .375" O.D.        | Vinyl .375" O.D. |
|  | 92S**          | 0.9       | PVC                       | Ceramic     | Fluorofilm™ | PTFE           | 4FV             | PE .375" O.D.        |                  |
|  | 94S**          | 0.9       | PVC                       | Ceramic     | Fluorofilm™ | PTFE           | 4FV             | Pipe 1/4" NPT M      |                  |
| B93  -<br>B73  -<br>B13  -                               | 360SI†         | 1.8       | Acrylic / PGC™            | Ceramic     | Fluorofilm™ | PGC™/Polyprel® | 4FV             | PE .375" O.D.        |                  |
|  | 361SI†         | 1.8       | PGC™ / PGC™               | Ceramic     | Fluorofilm™ | PGC™/Polyprel® | 4FV             | PE .375" O.D.        |                  |
|  | 362SI†         | 1.8       | PVDF / PVDF               | Ceramic     | Fluorofilm™ | PVDF/Polyprel® | 4FV             | PE .375" O.D.        |                  |
|  | 363SI†         | 1.8       | PVDF / PVDF               | Ceramic     | Fluorofilm™ | PVDF/PTFE      | 4FV             | PE .375" O.D.        |                  |
|  | 71FS           | 1.8       | Acrylic / PVDF            | PTFE        | Hypalon®    | Hypalon®       | 4FV             | PE .5" O.D.          | Vinyl .5" O.D.   |
|  | 72S**          | 1.8       | PVC                       | Ceramic     | Fluorofilm™ | PTFE           | 4FV             | PE .5" O.D.          |                  |
|  | 74S**          | 1.8       | PVC                       | Ceramic     | Fluorofilm™ | PTFE           | 4FV             | Pipe 1/4" NPT M      |                  |
|  | 75HV           | 1.8       | Polypropylene             | 316 S.S.    | Fluorofilm™ | PTFE           |                 | PE .5" O.D.          | Vinyl .938" O.D. |
|  | 75S**          | 1.8       | Polypropylene             | Ceramic     | Fluorofilm™ | PTFE           | 4FV             | PE .5" O.D.          |                  |
|  | 76             | 1.8       | Acrylic / PP              | 316 S.S.    | Fluorofilm™ | Hypalon®       |                 | PE .5" O.D.          | Vinyl .938" O.D. |
| B94  -<br>B74  -<br>B14  -                               | 79             | 1.8       | UHMW PE                   | Ceramic     | Hypalon®    | Hypalon®       |                 | PE .5" O.D.          | Vinyl .500" O.D. |
|  | 277            | 1.8       | 316 S.S.                  | 316 S.S.    | Fluorofilm™ | 316 S.S.       |                 | Pipe 1/4" NPT M      |                  |
|  | 310SI†         | 3.0       | Acrylic / PGC™            | Ceramic     | Fluorofilm™ | PGC™/Polyprel® | 4FV             | PE .375" O.D.        |                  |
|  | 311SI†         | 3.0       | PGC™ / PGC™               | Ceramic     | Fluorofilm™ | PGC™/Polyprel® | 4FV             | PE .375" O.D.        |                  |
|  | 312SI†         | 3.0       | PVDF / PVDF               | Ceramic     | Fluorofilm™ | PVDF/Polyprel® | 4FV             | PE .375" O.D.        |                  |
|  | 313SI†         | 3.0       | PVDF / PVDF               | Ceramic     | Fluorofilm™ | PVDF/PTFE      | 4FV             | PE .375" O.D.        |                  |
|  | 11S**          | 3.0       | Acrylic                   | Ceramic     | Fluorofilm™ | Polyprel®      | 4FV             | PE .5" O.D.          | Vinyl .5" O.D.   |
|  | 12S**          | 3.0       | PVC / PVDF                | Ceramic     | Fluorofilm™ | Polyprel®      | 4FV             | PE .5" O.D.          |                  |
| 15S**  | 3.0            | Polyprel® | Ceramic                   | Fluorofilm™ | PTFE        | 4FV            | PE .5" O.D.     |                      |                  |
| 217  | 3.0            | 316 S.S.  | 316 S.S.                  | Fluorofilm™ | 316 S.S.    |                | Pipe 1/4" NPT M |                      |                  |

See front page for voltage code specifications.

\*\* These Liquid Ends are available without a 4FV.

† 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'.

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

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.

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

Polyprel is a registered trademark of Liquid Metronics, Inc. Fluorofilm, Liquifram, PGC are trademarks of Liquid Metronics, Inc. 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  |                            |
| B11, B71, B91 | 0.002             | 1.6 | 0.006            | 6.1  | 0.10              | 101 | 0.10             | 1.01 | 150 psi (10.30 Bar)        |
| B12, B72, B92 | 0.003             | 2.5 | 0.009            | 9.5  | 0.16              | 158 | 0.16             | 1.58 | 100 psi (6.90 Bar)         |
| B13, B73, B93 | 0.005             | 4.5 | 0.017            | 17.0 | 0.28              | 284 | 0.28             | 2.84 | 50 psi (3.50 Bar)          |
| B14, B74, B94 | 0.007             | 7.0 | 0.027            | 26.5 | 0.44              | 442 | 0.44             | 4.42 | 30 psi (2.07 Bar)          |

\* Minimum output is based on one (1) stroke per minute and 10% stroke setting, minimum output can be reduced further in external mode.

Series B9 pumps may be programmed for strokes per hour for lower outputs.