

# gamma/ X Series

*X-tremely clever!*



ProMinent®

**Capacity range 0.24 to 11.9 gph (0.74 - 32 l/h) and pressures up to 363 psig (25 bar)**

The gamma/ X is the first metering pump with predictive intelligence. Thanks to its controlled solenoid drive with sensor-free pressure measurement, it detects hydraulic faults even in the case of minimal deviations – immediately and optimally matching its output to the pressure conditions and properties of the medium while protecting the pump and piping systems from overload situations.

## Features & Benefits

- Electronic stroke length adjustment
- Volume adjustment in gph
- Analog, Contact and Batch modes optional
- Integrated system pressure measurement
- Bus interfaces such as Profibus and CANbus
- Bluetooth technology available
- Improved visibility of LED-indicator lights
- Large, illuminated display
- Analog output for stroke length and stroke rate transmission
- Removable base for quick and easy installation
- Auto compensates programmed feed rates during back pressure fluctuations
- As low as 1mL/hr continuous feed rate with regulated solenoid drive

- Turn down ratio up to 40,000:1
- Integrated pressure measurement and display
- Available diaphragm rupture indicator
- Integrated 7-day timer
- Detects Overpressure/ No Pressure (broken discharge line)
- Automatically sets optimal speed and stroke based on GPH settings
- Certified to NSF/ANSI 50 and 61 (Acrylic and PVDF liquid ends only)

## Field of application

- Can be integrated into automated processes and used in all industries

# gamma/ X Series

## Technical Data

| Capacity Data   |                                  |       |      |        |           |   |  |                 |       |   |                     |      |
|---|----------------------------------|-------|------|--------|-----------|---|--|-----------------|-------|---|---------------------|------|
| Pump Version  | Capacity at Maximum Backpressure |       |      |        |           | Max. Stroking Rate<br><br>strokes/<br>min | Tubing Connectors<br>O.D. x I.<br><br>in | Suction Lift ** |       | SS Liquid end connections<br>FNPT<br><br>in | Shipping Weight lbs |      |
|   | psig                             | (bar) | gph* | (l/h)  | ml/stroke |   |  | ft              | (m)   |   | lbs                 | (kg) |
| gamma/ X with standard liquid ends                                    |                                  |       |      |        |           |   |  |                 |       |   |                     |      |
| 1602  | 232                              | (16)  | 0.61 | (2.3)  | 0.19      | 200                                       | 1/4 x 3/16                               | 19.6            | (6)   | 1/4   | 7.9                 | 9    |
| 1604  | 232                              | (16)  | 0.95 | (3.6)  | 0.30      | 200                                       | 1/4 x 3/16                               | 16.4            | (5)   | 1/4   | 7.9                 | 9    |
| 0708  | 102                              | (7)   | 2.0  | (7.6)  | 0.63      | 200                                       | 1/2 x 3/8                                | 13.1            | (4)   | 1/4   | 8.1                 | 11   |
| 0414  | 58                               | (4)   | 3.56 | (13.5) | 1.13      | 200                                       | 1/2 x 3/8                                | 9.8             | (3)   | 1/4   | 8.1                 | 11   |
| 0220  | 29                               | (2)   | 5.2  | (19.7) | 1.64      | 200                                       | 1/2 x 3/8                                | 6.5             | (2)   | 3/8   | 8.1                 | 11   |
| 2504  | 363                              | (25)  | 1.0  | (3.8)  | 0.32      | 200                                       | (8 x 4mm)                                | 13.1            | (4)   | 1/4   | 10.8                | 12.1 |
| 1009  | 145                              | (10)  | 2.38 | (9.0)  | 0.75      | 200                                       | 1/2 x 3/8                                | 9.8             | (3)   | 1/4   | 11.2                | 14.3 |
| 0715  | 102                              | (7)   | 3.83 | (14.5) | 1.21      | 200                                       | 1/2 x 3/8                                | 9.8             | (3)   | 1/4   | 11.2                | 14.3 |
| 0424  | 58                               | (4)   | 6.34 | (24)   | 2.00      | 200                                       | 1/2 x 3/8                                | 9.8             | (3)   | 3/8   | 11.2                | 14.3 |
| 0245  | 29                               | (2)   | 11.9 | (45)   | 3.70      | 200                                       | 1/2 x 3/8                                | 6.5             | (2)   | 3/8   | 11.5                | 15.4 |
| gamma/ X with auto-degassing liquid ends, 3-port (NPB9/ NPE9)         |                                  |       |      |        |           |   |  |                 |       |   |                     |      |
| 1602  | 232                              | (16)  | 0.34 | (1.30) | 0.11      | 200                                       | 1/4 x 3/16                               | 6.9             | (2.1) | -   | 7.9                 | -    |
| 1604  | 232                              | (16)  | 0.63 | (2.40) | 0.21      | 200                                       | 1/4 x 3/16                               | 8.8             | (2.7) | -   | 7.9                 | -    |
| 0708  | 101                              | (7)   | 1.8  | (6.80) | 0.57      | 200                                       | 1/2 x 3/8                                | 6.5             | (2)   | -   | 8.1                 | -    |
| 0414  | 58                               | (4)   | 3.17 | (12)   | 1.00      | 200                                       | 1/2 x 3/8                                | 6.5             | (2)   | -   | 8.1                 | -    |
| 0220  | 29                               | (2)   | 4.75 | (18)   | 1.5       | 200                                       | 1/2 x 3/8                                | 6.5             | (2)   | -   | 8.1                 | -    |
| 1009  | 145                              | (10)  | 2.11 | (8)    | 0.67      | 200                                       | 1/2 x 3/8                                | 9.8             | (3)   | -   | 11.2                | -    |
| 0715  | 101                              | (7)   | 3.56 | (13.5) | 1.00      | 200                                       | 1/2 x 3/8                                | 8.2             | (2.5) | -   | 11.2                | -    |
| 0424  | 58                               | (4)   | 5.28 | (20)   | 1.67      | 200                                       | 1/2 x 3/8                                | 8.2             | (2.5) | -   | 11.2                | -    |
| gamma/ X with self-bleeding liquid ends, 2-port without bypass (PVT7) |                                  |       |      |        |           |   |  |                 |       |   |                     |      |
| 1604  | 145                              | (10)  | 0.42 | (1.60) | 0.13      | 200                                       | 1/4 x 3/16                               | 6               | (1.8) | -   | 7.9                 | -    |
| 0708  | 101                              | (7)   | 1.50 | (5.7)  | 0.48      | 200                                       | 1/2 x 3/8                                | 6               | (1.8) | -   | 8.1                 | -    |
| 0414  | 58                               | (4)   | 3.17 | (12)   | 1.00      | 200                                       | 1/2 x 3/8                                | 6               | (1.8) | -   | 8.1                 | -    |
| 0220  | 29                               | (2)   | 4.60 | (17.4) | 1.45      | 200                                       | 1/2 x 3/8                                | 6               | (1.8) | -   | 8.1                 | -    |
| 1009  | 145                              | (10)  | 1.58 | (6.0)  | 0.50      | 200                                       | 1/2 x 3/8                                | 6               | (1.8) | -   | 11.2                | -    |
| 0715  | 101                              | (7)   | 3.40 | (12.9) | 1.08      | 200                                       | 1/2 x 3/8                                | 6               | (1.8) | -   | 11.2                | -    |
| 0424  | 58                               | (4)   | 5.07 | (19.2) | 1.60      | 200                                       | 1/2 x 3/8                                | 6               | (1.8) | -   | 11.2                | -    |

Positive suction is recommended on pumps with 1/2" MNPT connections.

gamma/ X metering pumps with high viscosity liquid ends (PVT 4) have a 10 – 20 % lower capacity rating and are not self-priming.

Permissible ambient temperature: 14 °F to 113 °F | Average power consumption: 78 W | Degree of protection: IP 66

Repeatability ± 2% when utilized and installed per operating instructions

\* Capacity data represents minimum values, tested using water at 68 °F (room temperature)

\*\* Suction lift with pre-primed suction line and liquid end

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