

► Metering Pump for  
Explosion-Proof Applications

# ProMinent® EXtronic®

Experts in Chemical Feed and Water Treatment

ProMinent®

## Features

- Capacities to 15.9 gph (60 lph)
- Maximum pressure of 363 psi (25 bar)
- Factory Mutual, CE and CSA Approved
- Class 1, Division 1, Groups B, C, & D
- ATEX approval available
- Operation modes in manual, contact or analog
- Solenoid driven diaphragm pump
- Auto-degassing and high viscosity liquid ends
- Pre-packaged systems available

## Benefits

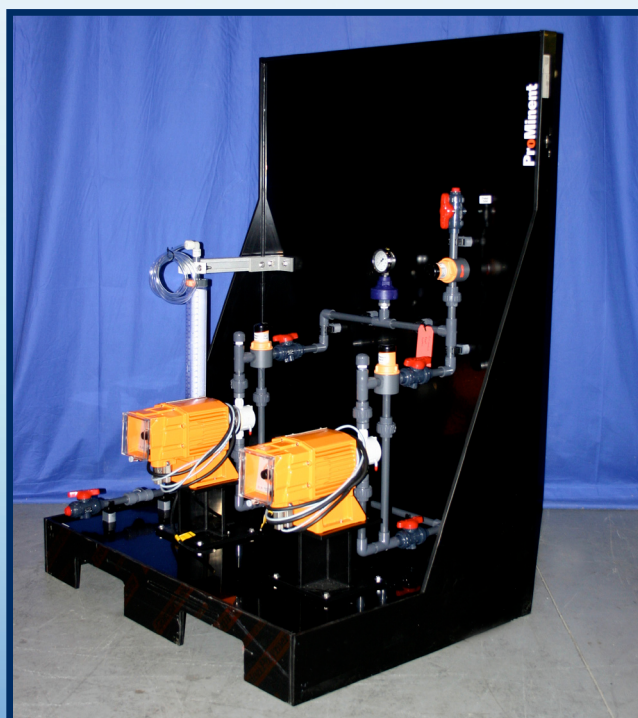
- Safe metering in hazardous/classified areas
- Intrinsically safe contact or analog control
- Turndown ratio 1200:1
- Operationally safe for flammable liquids
- No loss of prime with off-gassing liquids
- Plug 'n play systems solutions

## Applications

- Chemical process
- Mining
- Petrochemical
- Heavy industrial
- Pharmaceutical
- Fine dust environments
- Generally hazardous areas



ProMinent® EXtronic® metering pump



Chemical Feed systems

### Capacity data

| Pump<br>Version | Capacity at Maximum<br>Backpressure |       |       |               |            | Capacity at 1/2 Maximum<br>Backpressure |       |               |        | Pre-Primed<br>Suction<br>Lift |      | Max.<br>Stroking<br>Rate<br>spm | Tubing<br>Connectors**<br>O.D. x I.D.<br>inches | Shipping Weight<br>(higher weights<br>are for SS) |           |         |
|-----------------|-------------------------------------|-------|-------|---------------|------------|-----------------------------------------|-------|---------------|--------|-------------------------------|------|---------------------------------|-------------------------------------------------|---------------------------------------------------|-----------|---------|
|                 | psig (bar)                          | U.S.  |       | mL/<br>stroke | psig (bar) | U.S.                                    |       | mL/<br>stroke | ft.    | (m)                           | lbs. |                                 |                                                 | (kg)                                              |           |         |
|                 |                                     | GPH   | (L/h) |               |            | GPH                                     | (L/h) |               |        |                               |      |                                 |                                                 |                                                   |           |         |
| EXBb            |                                     |       |       |               |            |                                         |       |               |        |                               |      |                                 |                                                 |                                                   |           |         |
| 1000            | 145                                 | (10)  | 0.05  | (0.23)        | 0.03       | 73                                      | (5)   | 0.07          | (0.3)  | 0.04                          | 19.6 | (6)                             | 120                                             | 1/4 x 3/16                                        | 26.5-35.3 | (12-16) |
| 2501            | 363                                 | (25)  | 0.26  | (1.0)         | 0.15       | 290                                     | (20)  | 0.29          | (1.1)  | 0.17                          | 19.6 | (6)                             | 120                                             | 1/4 x 3/16                                        | 39.7      | (18)    |
| 1601            | 232                                 | (16)  | 0.26  | (1.0)         | 0.14       | 116                                     | (8)   | 0.34          | (1.3)  | 0.18                          | 19.6 | (6)                             | 120                                             | 1/4 x 3/16                                        | 26.5-35.3 | (12-16) |
| 1201            | 174                                 | (12)  | 0.45  | (1.7)         | 0.23       | 87                                      | (6)   | 0.53          | (2.0)  | 0.28                          | 19.6 | (6)                             | 120                                             | 1/4 x 3/16                                        | 26.5-35.3 | (12-16) |
| 2502            | 363                                 | (25)  | 0.53  | (2.0)         | 0.28       | 290                                     | (20)  | 0.58          | (2.2)  | 0.31                          | 5.9  | (1.8)                           | 120                                             | 1/4 FNPT                                          | 28.7-37.5 | (13-17) |
| 1002            | 145                                 | (10)  | 0.61  | (2.3)         | 0.31       | 73                                      | (5)   | 0.71          | (2.7)  | 0.38                          | 19.6 | (6)                             | 120                                             | 1/2 x 3/8                                         | 26.5-35.3 | (12-16) |
| 0803            | 116                                 | (8)   | 0.98  | (3.7)         | 0.51       | 58                                      | (4)   | 1.03          | (3.9)  | 0.54                          | 19.6 | (6)                             | 120                                             | 1/4 x 3/16                                        | 26.5-35.3 | (12-16) |
| 2505            | 363                                 | (25)  | 1.11  | (4.2)         | 0.64       | 290                                     | (20)  | 1.27          | (4.8)  | 0.73                          | 6.5  | (2.0)                           | 110                                             | 1/4 FNPT                                          | 35.3-44.1 | (16-20) |
| 1006            | 145                                 | (10)  | 1.59  | (6)           | 0.83       | 73                                      | (5)   | 1.90          | (7.2)  | 1.00                          | 6.9  | (2.1)                           | 120                                             | 1/2 x 3/8                                         | 28.7-37.5 | (13-17) |
| 0308            | 44                                  | (3)   | 2.27  | (8.6)         | 1.20       | 22                                      | (1.5) | 2.72          | (10.3) | 1.43                          | 9.8  | (3)                             | 120                                             | 1/2 x 3/8                                         | 26.5-35.3 | (12-16) |
| 1310            | 188                                 | (13)  | 2.77  | (10.5)        | 1.59       | 87                                      | (6)   | 3.14          | (11.9) | 1.80                          | 6.5  | (2.0)                           | 110                                             | 1/2 x 3/8                                         | 35.3-44.1 | (16-20) |
| 0613            | 87                                  | (6)   | 3.46  | (13.1)        | 1.82       | 44                                      | (3)   | 3.94          | (14.9) | 2.07                          | 8.8  | (2.7)                           | 120                                             | 1/2 x 3/8                                         | 28.7-37.5 | (13-17) |
| 0814            | 116                                 | (8)   | 3.7   | (14.0)        | 2.12       | 58                                      | (4)   | 4.07          | (15.4) | 2.33                          | 9.8  | (3)                             | 110                                             | 1/2 x 3/8                                         | 35.3-44.1 | (16-20) |
| 0417            | 51                                  | (3.5) | 4.6   | (17.4)        | 2.42       | 29                                      | (2)   | 4.73          | (17.9) | 2.49                          | 6.5  | (2.0)                           | 120                                             | 1/2 x 3/8                                         | 28.7-37.5 | (13-17) |
| 0814            | 116                                 | (8)   | 3.7   | (14.0)        | 2.12       | 58                                      | (4)   | 4.07          | (15.4) | 2.33                          | 9.8  | (3)                             | 110                                             | 1/2 x 3/8                                         | 35.3-44.1 | (16-20) |
| 0430            | 51                                  | (3.5) | 7.13  | (27.0)        | 4.09       | 29                                      | (2)   | 7.79          | (29.5) | 4.47                          | 9.8  | (3)                             | 110                                             | DN 10                                             | 35.3-44.1 | (16-20) |
| 0260            | 22                                  | (1.5) | 15.85 | (60.0)        | 9.09       | -                                       | (-)   | -             | (-)    | -                             | 8.2  | (2.5)                           | 110                                             | DN 15                                             | 35.3-44.1 | (16-20) |

Above capacities and suction lift refer to pumps tested on water at 115 VAC, 60 Hz, and an ambient temperature of 70°F (20°C). Higher specific gravity fluids will reduce suction lift. Higher viscosity fluids will reduce capacity.

Liquid ends for highly viscous media have 10-20% less metering capacity and are not self-priming. Standard connectors are 1/2" MNPT or 5/8" hose barb. Positive suction is recommended.

\* High Viscosity models are available in the 1002, 1006, 1310 and 0814 models. Liquid end designation is PP4 (Polypropylene/EPDM) Suitable for viscosities to 3500 cps  
 \*\* SS versions use 1/4" female threads except models 0220, 0420, and 0232 which use 3/8" female threads.

### EXtronic Models with Auto-degassing Liquid Ends

| Pump Version | Capacity at Maximum Backpressure |       |      |       | Max. Stroking mL/stroke | Connectors<br>Tube/NPT fitting PP/Rate<br>spm | Suction NP/NS/PS/TT inches | Shipping Lift |       | Weight |      |
|--------------|----------------------------------|-------|------|-------|-------------------------|-----------------------------------------------|----------------------------|---------------|-------|--------|------|
|              | psig                             | (bar) | GPH  | (L/h) |                         |                                               |                            | ft.           | (m)   | lbs.   | (kg) |
| 1601         | 232                              | (16)  | 0.17 | (0.7) | 0.09                    | 120                                           | 1/4 x 3/16                 | 5.9           | (1.8) | 27     | (12) |
| 1201         | 174                              | (12)  | 0.26 | (1.0) | 0.14                    | 120                                           | 1/4 x 3/16                 | 6.6           | (2.0) | 27     | (12) |
| 0803         | 116                              | (8)   | 0.63 | (2.4) | 0.33                    | 120                                           | 1/4 x 3/16                 | 9.2           | (2.8) | 27     | (12) |
| 1002         | 145                              | (10)  | 0.48 | (1.8) | 0.25                    | 120                                           | 1/4 x 3/16                 | 6.6           | (2.0) | 27     | (12) |

Shipping Weight for EXBb Fireproof M Version is an additional 32 lbs. (14 kg).

### Liquid end materials in contact with media

| Version | Liquid End          | Suction/Discharge valves | Seals  | Valve balls | Diaphragm* |
|---------|---------------------|--------------------------|--------|-------------|------------|
| PP1     | Polypropylene       | Polypropylene            | EPDM   | Ceramic     | PTFE       |
| PP4*    | Polypropylene       | Polypropylene            | EPDM   | Ceramic     | PTFE       |
| NP1     | Acrylic             | PVC                      | Viton® | Ceramic     | PTFE       |
| NP3     | Acrylic             | PVC                      | Viton® | Ceramic     | PTFE       |
| NS3**   | Acrylic             | PVC                      | Viton® | Ceramic     | PTFE       |
| PS3**   | PVC                 | PVC                      | Viton® | Ceramic     | PTFE       |
| TT1     | PTFE with carbon    | PTFE with carbon         | PTFE   | Ceramic     | PTFE       |
| TTT     | PTFE with carbon    | PTFE with Carbon         | PTFE   | Ceramic     | PTFE       |
| SS..    | 316 Stainless steel | 316 Stainless Steel      | PTFE   | Ceramic***  | PTFE       |

\* PP4 with Hastelloy C valve springs.

\*\* NS3 and PS3 with Hastelloy C valve springs, PVDF valve core. NOTE: Viton® is a registered trademark of DuPont Dow Elastomers.

\*\*\* DN 10 and DN 15 valve balls are 316 stainless steel

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