NSF

Certified to NSF/ANSI 61

Sigma/ 2 Series

New Technology, Durable Design

The **ProMinent® Sigma/ 2** is a mechanically-actuated diaphragm metering pump capable of flow rates from 15.9 to 111 gph (60 - 420 l/h) and pressures up to 232 PSI (16 bar). ProMinent® Sigma/ 2 microprocessor controlled metering pumps are programmable and display comprehensive data for monitoring, recording, and tracking. Functions include digital setting of stroke frequency, manual stroke length adjustment, integral variable speed and access codes.

Also available in basic, non-microprocessor based version and explosion proof models.

Applications

- Time-controlled chemical addition in cooling water circuits
- Proportional chemical addition in water treatment (e.g. Sodium Hypochlorite for drinking water disinfection)
- Measurement-dependent chemical addition (e.g. acid & caustic metering for pH neutralization in wastewater treatment)
- Pulse-controlled metering from variable flow meters
- Chemical process, Mining, Petrochemical, Heavy industrial, Pharmaceutical, Water and Wastewater Treatment



Multi-layer safety diaphragm

Features & Benefits

- Certified to NSF/ANSI 61 (PVDF liquid) ends)
- Universally compatible PVDF liquid ends
- Variable AC frequency combined with digital stroking frequency
- The individual pump functions are simply adjusted using the five programming keys
- A large backlit LCD indicates the current operating status.

- 3-LED-function as operation indicators, alarm indicator and fault indicator
- Connection to complex process control systems with PROFIBUS®-DP interface
- Control via contact or analog signals (e.g. 0/4-20 mA)
- Optional 2-week-process timer
- Integrated multi-layer safety diaphragm (standard) with visual rupture indicators



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- · validate your product warranty

Sigma/ 2 Series

Capacity data: Sigma/ 2 Control Version

| Pump version: | | Capacity at Max. Backpressure | | Max. Stroke Rate | Output per Stroke | Max. Suction Lift | | Max. Suction Pressure | | Suction/ Discharge Connector | | Wei | Shipping Weight w/Motor | |
|------------------|------|-------------------------------------|-------------|------------------------|-------------------------|-------------------------|------------|-----------------------------|------|------------------------------------|----|----------|-------------------------------|---------------|
| S2Ca HM | psig | (bar) | U.S. GPH | (L/h) | Stroke/ min. | mL/ stroke | (wa ft. | iter) (m) | psig | (bar) | DN | in. | (app lbs. | rox.) (kg) |
| 16050 PVT | 145 | (10) | 15.9 | (60) | 90 | 11.4 | 23 | (7) | 44 | (3) | 15 | 1/2 MNPT | 33 | (15) |
| 16050 SST | 232 | (16) | 15.9 | (60) | 90 | 11.4 | 23 | (7) | 44 | (3) | 15 | 1/2 FNPT | 44 | (20) |
| 16090 PVT | 145 | (10) | 28.5 | (108) | 160 | 11.4 | 23 | (7) | 44 | (3) | 15 | 3/4 MNPT | 33 | (15) |
| 16090SST | 232 | (16) | 28.5 | (108) | 160 | 11.4 | 23 | (7) | 44 | (3) | 15 | 1/2 FNPT | 44 | (20) |
| 16130 PVT | 145 | (10) | 34.3 | (130) | 200 | 10.9 | 23 | (7) | 44 | (3) | 15 | 3/4 MNPT | 33 | (15) |
| 16130 SST | 232 | (16) | 34.3 | (130) | 200 | 10.9 | 23 | (7) | 44 | (3) | 15 | 1/2 FNPT | 44 | (20) |
| 07120 PVT | 100 | (7) | 38 | (144) | 90 | 27.4 | 16 | (5) | 15 | (1) | 25 | 3/4 MNPT | 35 | (16) |
| 07120 SST | 100 | (7) | 38 | (144) | 90 | 27.4 | 16 | (5) | 15 | (1) | 25 | 3/4 MNPT | 53 | (24) |
| 07220 PVT | 100 | (7) | 69.7 | (264) | 160 | 27.7 | 16 | (5) | 15 | (1) | 25 | 3/4 MNPT | 35 | (16) |
| 07220 SST | 100 | (7) | 69.7 | (264) | 160 | 27.7 | 16 | (5) | 15 | (1) | 25 | 3/4 MNPT | 53 | (24) |
| 04350 PVT | 58 | (4) | 92.5 | (350) | 200 | 29.4 | 16 | (5) | 15 | (1) | 25 | 1 MNPT | 35 | (16) |
| 04350 SST | 58 | (4) | 92.5 | (350) | 200 | 29.4 | 16 | (5) | 15 | (1) | 25 | 1 MNPT | 53 | (24) |

Capacity data: Sigma/ 2 Basic Version

| Pump version: | | | Capacity at Max. Backpressure | | Max. Stroke Rate | Output per Stroke | Max. Suction Lift | Max. Suction Pressure | | Suction/ Discharge Connector | | Shipping Weight w/Motor | |
|------------------|------|-------|-------------------------------------|-------|------------------------|-------------------------|-------------------------|-----------------------------|-----|------------------------------------|----------|-------------------------------|------|
| S2Ba HM | psig | (bar) | U.S. GPH | (L/h) | Stroke/ min. | mL/ stroke | (water) ft. (m) | psig (b | ar) | DN | in. | (app lbs. | |
| 16050 PVT | 145 | (10) | 15.9 | (60) | 87 | 11.4 | 23 (7) | 44 (| 3) | 15 | 1/2 MNPT | 33 | (15) |
| 16050 SST | 174 | (16) | 15.2 | (57) | 87 | 11.4 | 23 (7) | 44 (| 3) | 15 | 1/2 FNPT | 44 | (20) |
| 16090 PVT | 145 | (10) | 28.5 | (108) | 156 | 11.4 | 23 (7) | 44 (| 3) | 15 | 3/4 MNPT | 33 | (15) |
| 16090 SST | 174 | (16) | 27 | (103) | 156 | 11.4 | 23 (7) | 44 (| 3) | 15 | 1/2 FNPT | 44 | (20) |
| 16130 PVT | 145 | (10) | 41 | (156) | 232 | 10.9 | 23 (7) | 44 (| 3) | 15 | 3/4 MNPT | 33 | (15) |
| 16130 SST | 174 | (16) | 39.6 | (150) | 232 | 10.9 | 23 (7) | 44 (| 3) | 15 | 1/2 FNPT | 44 | (20) |
| 07120 PVT | 100 | (7) | 38 | (144) | 87 | 27.4 | 16 (5) | 15 (| 1) | 25 | 3/4 MNPT | 35 | (16) |
| 07120 SST | 100 | (7) | 38 | (144) | 87 | 27.4 | 16 (5) | 15 (| 1) | 25 | 3/4 MNPT | 53 | (24) |
| 07220 PVT | 100 | (7) | 69.7 | (264) | 156 | 27.4 | 16 (5) | 15 (| 1) | 25 | 3/4 MNPT | 35 | (16) |
| 07220 SST | 100 | (7) | 69.7 | (264) | 156 | 27.4 | 16 (5) | 15 (| 1) | 25 | 3/4 MNPT | 53 | (24) |
| 04350 PVT | 58 | (4) | 111 | (420) | 232 | 29.4 | 16 (5) | 15 (| 1) | 25 | 1 MNPT | 35 | (16) |
| 04350 SST | 58 | (4) | 111 | (420) | 232 | 29.4 | 16 (5) | 15 (| 1) | 25 | 1 MNPT | 53 | (24) |

Sigma/ 2 control type:

The ProMinent® Sigma microprocessor version (standard IP 65) allows rapid and reliable adjustment to fluctuating metering requirements.

The controller has the same control panel as the ProMinent® gamma/ L metering pump.

The microprocessor controller of the Sigma pumps, featuring the optimum combination of variable AC frequency combined with digital stroking frequency, ensures exact metering even in the lower minimum range due to individual stoke control.

The individual pump functions are simply adjusted using the five programming keys. A backlit LCD indicates the current operating status, LEDs function as operation or fault indicators and fault indicator or pacing relays monitor the pump function.

Central or decentral adjustment is possible with PROFIBUS® and/or an integrated process timer.





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