

► from 15.9 - 92.5 gph (60 - 350 l/h)

ProMinent® Sigma/ 2 control

Experts in Chem-Feed and Water Treatment

ProMinent®

New Technology, Durable Design

The **ProMinent® Sigma/ 2** microprocessor controlled metering pumps are programmable and display informative data for monitoring, recording, and tracking. Functions include digital setting of stroke frequency, digital stroke length adjustment, integral variable speed and access codes. Displays include flow rate (gph or l/h) and totalized flow (gallons or liters), cumulative stroke count, and stroke length adjustment. Options include remote monitoring, diagnostics, control (via fieldbus, analog, pulse and/or timer), access codes, fault/pacing relays, mA analog output, and flow monitoring. Control version pumps are supplied with an integral TEFC motor.

The **ProMinent® Sigma/2 Control** is a mechanically-actuated diaphragm metering pump capable of flow rate from **15.9 to 92.5 gph (60 - 350 l/h)** at 60 Hz operation.

Features and benefits

- Universally compatible PVDF liquid ends
- Microprocessor control: optimum combination of variable AC frequency combined with digital stroking frequency, ensures exact metering even in the lower minimum range due to individual stroke control.
- 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
- Problem-free connection to complex process control systems with the option of PROFIBUS®-DP interface.
- Control via contact or analogue signals (e.g. 0/4-20 mA)
- On demand, integration of 2-week-process timer. The intelligent alternative.



ProMinent® Sigma/2 Control

Applications

- Proportional chemical addition in water treatment (e.g. Sodium Hypochlorite for drinking water disinfection)
- Measurement-dependent chemical addition (e.g. acid and caustic metering for pH neutralization in wastewater treatment)
- Time-controlled chemical addition in cooling water circuits
- Pulse-controlled metering from variable flow meters

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Capacity Data

Pump version:			Capacity at Max. Pressure	Max. Stroke Rate	Output per Stroke	Max. Suction Lift	Max. Suction Pressure	Suction/ Discharge Connector		Shipping Weight w/Motor
S2Ca HM	psig	(bar)	U.S. (L/h) GPH	Stroke/ min.	mL/ stroke	(water) ft. (m)	psig (bar)	DN	in.	(approx.) lbs. (kg)
12050 PVT	145	(10)	15.9 (60)	90	11.4	23 (7)	44 (3)	15	1/2 MNPT	33 (15)
12050 SST	174	(12)	15.9 (60)	90	11.4	23 (7)	44 (3)	15	1/2 FNPT	44 (20)
12090 PVT	145	(10)	28.5 (108)	160	11.4	23 (7)	44 (3)	15	3/4 MNPT	33 (15)
12090SST	174	(12)	28.5 (108)	160	11.4	23 (7)	44 (3)	15	1/2 FNPT	44 (20)
10130 PVT	145	(10)	34.3 (130)	200	10.9	23 (7)	44 (3)	15	3/4 MNPT	33 (15)
10130 SST	174	(12)	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)

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 stroke 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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