

► from 5.2 - 38 gph (20 - 144 l/h)

ProMinent® Sigma/ 1 basic

Experts in Chem-Feed and Water Treatment

ProMinent®

Durable design and simple operation

The choice for simple, metering pump applications. The **ProMinent® Sigma/1 Basic** pumps may be operated manually by adjusting the stroke length knob (displacement per stroke) at a constant stroke frequency using a constant speed motor. Automatic control of displacement per stroke via analog (4-20mA) signal is possible with optional motorized stroke positioning systems.

The **ProMinent® Sigma/1 Basic** is a mechanically-actuated diaphragm metering pump capable of flow rates from **5.2 to 38 gph (20 to 144 L/h)** and pressures up to **174 PSI (12 bar)**.



ProMinent® Sigma/ 1 Basic

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 waste water treatment)
- Chemical addition of aqueous chemicals for boilers and cooling towers
- Higher chemical feed dosages up to 38 gph

Features and benefits

- Mechanically-actuated diaphragm metering pump
- PVDF and stainless steel
- Drive unit is adjustable at 90° angles to the base
- Three drive versions available
- Manual stroke length adjustment or optional positioning motor
- Rugged metal inner casing for components, with a corrosion-resistant housing
- Reproducible metering accuracy at defined conditions and correct installation better than $\pm 2\%$ (stroke length area 30-100 %)

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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
S1Ba HM	psig (bar)		U.S. (L/h) GPH	Stroke/ min.	mL/ stroke	(water) ft. (m)	psig (bar)	DN	in.	(approx.) lbs. (kg)
12017 PVT	145	(10)	5.2 (20)	88	4	23 (7)	14.5 (1)	10	1/2 MNPT	19.8 (9)
12017 SST	174	(12)	5.2 (20)	88	4	23 (7)	14.5 (1)	10	3/8 FNPT	26.5 (12)
12035 PVT	145	(10)	11.1 (42)	172	4	23 (7)	14.5 (1)	10	1/2 MNPT	19.8 (9)
12035 SST	174	(12)	11.1 (42)	172	4	23 (7)	14.5 (1)	10	3/8 FNPT	26.5 (12)
10050 PVT	145	(10)	15.8 (60)	240	4	23 (7)	14.5 (1)	10	1/2 MNPT	19.8 (9)
10050 SST	145	(10)	15.8 (60)	240	4	23 (7)	14.5 (1)	10	3/8 FNPT	26.5 (12)
10022 PVT	145	(10)	6.8 (26)	88	5.1	19.6 (6)	14.5 (1)	10	1/2 MNPT	19.8 (9)
10022 SST	145	(10)	6.8 (26)	88	5.1	19.6 (6)	14.5 (1)	10	3/8 FNPT	26.5 (12)
10044 PVT	145	(10)	14 (53)	172	5.1	19.6 (6)	14.5 (1)	10	1/2 MNPT	19.8 (9)
10044 SST	145	(10)	14 (53)	172	5.1	19.6 (6)	14.5 (1)	10	3/8 FNPT	26.5 (12)
07065 PVT	102	(7)	20.6 (78)	240	5.1	19.6 (6)	14.5 (1)	10	1/2 MNPT	19.8 (9)
07065 SST	102	(7)	20.6 (78)	240	5.1	19.6 (6)	14.5 (1)	10	3/8 FNPT	26.5 (12)
07042 PVT	102	(7)	13.2 (50)	88	9.7	9.8 (3)	14.5 (1)	15	3/4 MNPT	21 (9.5)
07042 SST	102	(7)	13.2 (50)	88	9.7	9.8 (3)	14.5 (1)	15	1/2 FNPT	29.8(13.5)
04084 PVT	58	(4)	26.7 (101)	172	9.7	9.8 (3)	14.5 (1)	15	3/4 MNPT	21 (9.5)
04084 SST	58	(4)	26.7 (101)	172	9.7	9.8 (3)	14.5 (1)	15	1/2 FNPT	29.8(13.5)
04120 PVT	58	(4)	38 (144)	240	9.7	9.8 (3)	14.5 (1)	15	3/4 MNPT	21 (9.5)
04120 SST	58	(4)	38 (144)	240	9.7	9.8 (3)	14.5 (1)	15	1/2 FNPT	29.8 (13.5)

Sigma/ 1 basic motors

The Sigma/1 microprocessor controlled metering pump (S1Ca) is supplied with an integral TEFC motor. The Sigma basic version (S1Ba) is suitable for simple metering pump applications. The pump may be operated manually by adjusting the stroke length knob (displacement per stroke). Automatic control of displacement per stroke via a 4-20 mA analog signal is possible with an optional servomotor.

Sigma/1 Metering Pumps are also available in microprocessor based control versions.

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