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).

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 ±2% (stroke length area 30-100 %)
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.