ProMinent[®] ProMpalx Sarles

= Sodium Hypochlorite - Automatic Primary Back-up System =

Pre-engineered Na0Cl Feed System

Feed Rates of up to 1.66 USGPH @ 145 PSIG (6.3 L/hr @ 10 bar)

Description

A wall mounted packaged chemical feed station for Sodium Hypochlorite usage. Typically used with water systems conveying under 2 million gallons per day (disinfection / chlorination).

Benefits

- Primary and back-up pump configuration to avoid system shutdown
- Easy wall mount installation for *adaptable, efficient use of space*
- Integral control panel delivers easy installation
- Self-degassing pump design *eliminates priming problems*
- Flow verification *automatically activates back-up pump if needed*
- Microprocessor pumps used for large *turndown and chemical optimization*
- Durable, corrosion-resistant piping and frame extends life of system
- Socket weld piping reduces leakage
- Manual or remote pump operation *delivers flexibility of control*



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Detailed Benefits

Eliminate Priming Problems:

- The automatic degassing liquid end of the ProMinent Gamma L pump never loses prime
- Loss of flow is automatically detected for any type of fault occurance

Corrosion and Leak Resistant Design:

- Socket weld pipe fittings (Schedule 80 CPVC) for leak resistance
- Bleach resistant CPVC solvent weld cement and primer with socket weld joints
- Corrosion resistant polypropylene wall mounted back panel

Functional Design:

- Pre-engineered package chemical feed system, connect power, suction and discharge
- Primary back-up pump design. Should the primary pump fail, the back-up will start and an alarm signal will activate
- Chemical flow verification with ProMinent flow monitors
- Remote control via 4 20 mA input or discrete on/off signal
- Discrete pump fault or system fault output
- · Pump can be calibrated to display flow

Individual Components:

- (2) ProMinent Gamma/L Metering Pumps with Auto Degassing Liquid Ends
- (2) 1/2" CPVC Body, PTFE Diaphragm 10-150 PSIG, Adjustable Pressure Relief Valve
- (1) 1/2" CPVC Body, PTFE Diaphragm 10-150 PSIG, Adjustable Backpressure Valve
- (1) 1/2" 0-160 PSIG, 2" Dial, Pressure Gauge with PVC Isolator
- (1) 100 ml PVC Calibration Column
- (1) 10 cu. in. PVC/Viton® Pulsation Dampener
- (1) 3/8" Thick PE Wall-mountable Backboard
- Lot 1/2" CPVC Body, Viton® Seals & PTFE Seat, Isolation and Bleed Ball Valves
- (2) PVC Foot Valves & Injection Valves (shipped loose)
- Lot 1/2" Sch. 80 CPVC Pipe and Socketweld Fittings
- (1) Universal Switchover Control Panel, Power Requirements: 120VAC / 1 / 60Hz
- (2) Pump Control Cables For external control signals
- All assembled and fully tested



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Technical Data & Capacities

Based on water flow rate and PPM Na0Cl feed required, use the table below to determine the unit size of the Hypo feed systems. (If the required water flow rate is not in the table, please use the next higher value)

S2-WM-CL-2 S2-WM-CL-5 S2-WM-CL-8 (max.) 10 lb/day Chlorine (max.) 25 lb/day Chlorine (max.) 47 lb/day Chlorine **PPM USGPH USGPH** (m³/day) (m³/day) USGPH (m³/day) 0.5 88,000 (8,067)228,000 (20,713)398,400 (36, 194)1 44,400 (4,033)114,000 (10,356)199,200 (18,097)1.5 29,600 (2,688)76,000 (6,904)132,800 (12,064)2 22,200 (2,016)57,000 99,600 (9,048) (5, 178)2.5 17,760 (1,613)45,600 (4, 142)79,680 (7, 238)3 14,800 (1,344)66,400 (6,032)38,000 (3, 452)3.5 12,865 (1, 152)32,571 (2,958)56,914 (5, 170)4 11,100 (1,008)28,500 (2,589)49,800 (4,542)4.5 9,866 (896)25,333 (2,301)44,266 (4,021)

Max. Permissable Water Flow (in USGPH & m³/day & at different Hypo. PPM.)

(Based on 12.5% Hypochlorite concentration)

Ordering Information (Specify the Model Number and/or the Part #)

ProMpak Model #	Part # w/ pulse or (w/ analog)	Feed Rate USGPH (L/Hr.)	Pump Model # w/ pulse or (w/ analog)	Max. Injection Pressure	Sp. Parts Part #
S2-WM-CL-2	7745336 (7745337)	0.08 -0.37 (0.07 - 1.40)	GALa1602NPE900UD113100 (GALa1602NPE900UDC13100)	145 PSIG (10 Bar)	1001661
S2-WM-CL-5	7745338 (7745339)	0.37-0.95 (1.41 - 3.60)	GALa1005NPE960UD113100 (GALa1005NPE960UDC13100)	145 PSIG (10 Bar)	1001662
S2-WM-CL-8	7745340 (7745341)	0.96 - 1.66 (3.61 - 6.30)	GALa1008NPE960UD113100 (GALa1008NPE960UDC13100)	145 PSIG (10 Bar)	1001663

Options (Suffix the Feed System Model with the following and/or specify the part #)

LS 7745342 ProMPak-CI Level Switch Kit. This option consists of two level switches (2 x p/n 7142038) so that each pump can monitor the chemical level in the tank (tank not included).
Prewired and ready for installation in customer's tank

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^{*} Approximate Ship Weight - 70 lbs (32 kg)

Design Specifications

This specification covers the wall mounted sodium hypochlorite metering pump system complete with two (2) solenoid metering pumps, all necessary piping, valves, fittings, supports, electrical controls, and accessories as shown on the drawing and specified herein to meter sodium hypochlorite into the treatment process. A single chemical metering pump manufacturer shall be responsible for supplying all components, assembly, and testing of the skid mounted chemical metering system. The metering pumps shall incorporate automatic de-gassing pump liquid end for self priming and removing gas from the liquid end. The system shall have a primary and back-up pump configuration. In the event the primary pump fails, a back-up shall start and a discrete fail alarm is activated. The control panel shall have a selector switch to select the primary and back-up pump on or off. The control panel shall be able to accept a 4 - 20 mA input and discrete on/off for pump control and have a discrete fault output (optional 4 - 20 mA output). The system shall incorporate flow monitoring devices that verify the chemical feed and cause a fault condition upon loss of flow and (optional float level switch to cause a fault upon empty day tank). The system shall be constructed of CPVC with socket weld fittings using chemically resistant solvent weld CPVC cement.

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