ProMinent Fluid Controls Pty Ltd



Series 900 Chlorine Systems

ProMinent®

The toughest vacuum regulator in the world!

- Solid Machined PVC Construction
- Hastelloy-C Inlet Adapters
- 3-Year Limited Warranty
- Built-In Vent Valve

Hydro Instruments has been manufacturing the highest quality chlorination and sulfonation equipment since 1978. The **Series 900** Switchover Vacuum Regulator incorporates automatic switchover and a safety relief "vent" valve into a single durable component.

Quality

The Series 900 is simply the most ruggedly designed, heavy-duty vacuum regulator in existence. Each part is derived from the very finest material available. To avoid cracking, our body parts are machined from solid PVC and designed with heavy wall thickness. For maximum durability and corrosion resistance our inlet adapters are constructed of Hastelloy-C and our yoke assemblies are protected with the finest Epoxy Powder Coating.



Yoke Bolt fits

twisted cylinder

wrench

Safety

For Hydro, safety is the highest concern. Here are three points that set us apart from the competition:

- 1. Our rugged design and highest quality machined parts maximize safety by preventing cracks and minimizing corrosion.
- 2. At Hydro Instruments a skilled technician follows a rigorous testing procedure for each and every vacuum regulator with chlorine or sulfur dioxide gas.
- 3. Each Series 900 Vacuum Regulator is equipped with an integrally designed safety relief "vent" valve to immediately direct any leaking gas to a safe location.

Convenience

Design: Hydro has designed the vacuum regulator yokes so that a **twisted cylinder wrench** can be used for both the cylinder and vacuum regulator. One of these wrenches is provided with each vacuum regulator purchased from Hydro. (See photo at right.)

Repairs: Hydro equipment is designed with **fewer parts** and our assemblies are designed to be easily repaired without special tools.

Service: We provide our top quality parts at reasonable prices and always keep all parts in stock. Also, expedited service is the norm with Hydro; most orders ship the same day and we never charge expediting fees.

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www.prominentfluid.com.au

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Corrosion Resistant

Hastellov-C

Inlet Adapter

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Distributors Throughout Australia & New Zealand

Technical Data

Model Information Code

Model 9 C Gas
C - Chlorine

Vacuum Regulator Mounting

- 5 Two direct cylinder or manifold mounted vacuum regulators
- 6 Two direct ton container mounted vacuum regulators

Available Gas Flowmeters

- 3 4 ppd (75 g/h)
- 4 10 ppd (200 g/h)
- 5 25 ppd (0.5 kg/h)
- 6 50 ppd (0.9 kg/h)
- 7 100 ppd (2.0 kg/h)
- 8 250 ppd (5.0 kg/h)
- 9 500 ppd (10 kg/h)

Accuracy: within 4% of maximum flowmeter capacity

Operating Range: 20:1 manual; 10:1 automatic

Operating Temperature: Ejector, 35°F to 120°F;

Other components, -20°F to 120°F

The system operating temperature is largely dependent on the withdrawal rate of gas from the cylinder and is a function of the existing ambient temperature.

Vacuum Tubing

CONNECTIONS **Maximum Capacity** Model Vacuum Vent 3/8" 97X 100 ppd (2 kg/h) 1/2" 3/8" 98X 250 ppd (5 kg/h) 99X 500 ppd (10 kg/h) 5/8" 3/8"

Size Requirements - Distance

The **Hydro Series 900 Gas Feeder** can be a few feet to several hundred feet from the ejector, depending on maximum feed rate and the diameter of connecting pipe or tubing.

Maximum Feed Rate		Length of Vacuum Tubing		
PPD	(kg/h)	100' (31m)	200' (61m)	500' (153m)
50	(1)	3/8"	3/ ₈ "	1/2"
100	(2)	3/ ₈ "	1/2"	1/2"
250	(5)	1/2"	5/8"	3/4"
500	(10)	5/8"	3/4"	1"

Note: Ammonia feed rates are 12, 25, 50, 100, and 250.

Ejector Connections

Capacity	Standard		
100 ppd	Nozzle 1" hose and ³ / ₄ " NPT Diffuser 1" hose and ³ / ₄ " NPT		
250 & 500 ppd	Inlet 1 ¹ / ₄ " NPT Outlet 1 ¹ / ₄ " NPT	Optional 1 ¹ / ₂ " hose	

Materials of Construction

Kynar, PVC, polyethylene, tantalum, silver, Hastelloy-C, monel, viton and teflon.

Maximum back pressure at point of application for a standard ejector is 140 psig. For pressures greater than 140 psig, consult factory.

All feed rate capacities shown in this bulletin are for chlorine. For sulfur dioxide, multiply each chlorine value by 0.95.

Gas Warning

All unattended gas containers and gas feed equipment should be monitored for leaks. Gas sensitive detectors, which will respond quickly to gas leaks in the atmosphere, should be installed at each site.

Options and Accessories



Regulator-Mounted Flow Tubes Inlet Water Assembly Booster Pumps Scales Manifolds Automatic Controls Isolating Valves Flexible Connectors Gas Masks Gas Detectors

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