

Series 300 Chlorine and Sulfur Dioxide Systems

- 3-Year Limited Warranty
- Hastelloy-C Inlet Adapters

Solid Machined PVC Constructed

Hydro Instruments has been manufacturing the highest quality gas chlorination and sulfonation equipment since 1978. Now Hydro Instruments also offers this popular and proven design as a reliable and economical alternative. The Series 300 offers feed rates up to 500 PPD (10 kg/hr). Systems are available with automatic switchover capabilities and the vacuum regulators can be outfitted with an optional out of gas alarm switch.

Quality

Hydro Instruments continually strives to produce the longest lasting and most reliable gas chlorination and sulfonation equipment on the market. We believe that this means using only the highest quality materials and most rugged designs. 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 by the finest Epoxy Powder Coating.

Safety

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

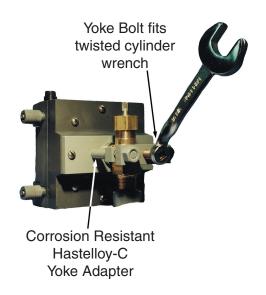
- 1. Our rugged design and highest quality machined parts maximize safety by avoiding cracks and corrosion.
- 2. At Hydro Instruments a skilled technician follows a rigorous testing procedure for each and every vacuum regulator.

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.



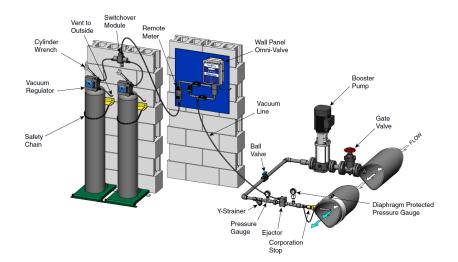


BULLETIN 300 Rev. 1/17

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INSTRUMENTS

Technical Data



Size Requirements – Distance

The **Hydro Series 300 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"	5⁄8"	
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.

Accuracy: within 4% of maximum flowmeter capacity

Operating Range: 20:1 manual or automatic

Operating Temperature: Ejector, 35°F to 120°F; Other components, -20°F to 120°F

Materials of Construction

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

Represented by

Vacuum Tubing

Model	CONNECTIONS Maximum Capacity	Vacuum	Vent
VRH-100-CL2 VRH-10T-CL2	100 ppd (2 kg/h)	3⁄8"	³ ⁄8"
VRH-250-CL2 VRH-25T-CL2	250 ppd (5 kg/h)	1⁄2"	3⁄8"
VRH-500-CL2 VRH-50T-CL2	500 ppd (10 kg/h)	5⁄8"	3⁄8"

Ejector Connections

Capacity	Standard		
100 ppd	Nozzle 1" hose and 3⁄4" NPT Diffuser 1" hose and 3⁄4" NPT		
250 & 500 ppd	Inlet 1¼" NPT Outlet 1¼" NPT	Optional 11⁄2" hose	

Maximum back pressure at point of application for a standard ejector is 150 psig. For pressures greater than 150 psig, consult factory.

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

Various ejector nozzles are available – selected when ordering. Nozzle performance charts can be found in the Series 300 O&M manual.

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

Inlet Water Assembly Booster Pumps Scales Manifolds Automatic Controls Isolating Valves Flexible Connectors Gas Masks Gas Detectors





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