

HIGH CAPACITY PRODUCT LINE









Highest Quality, Best Service

Manufacturing chlorination equipment and related products since 1978

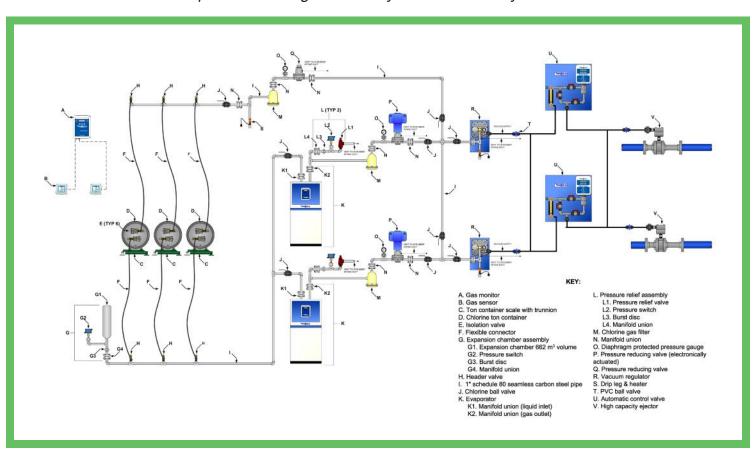




For over 35 years Hydro Instruments has been manufacturing the most reliable, longest lasting, and highest quality products in the chemical feed industry. Made in the USA and compliant with ISO-9001 quality standards you can be assured Hydro Instruments' products will perform even in the most demanding applications.

With product always in stock, and warranty coverage that is second to none you'll see why Hydro Instruments provides the best customer service experience possible.

Use the diagram below to view where and how Hydro Instruments' product offerings fit into any chemical feed system!





VPH-10000

Vaporizer

Hydro Instruments offers one of the most advanced, reliable and efficient chlorine, sulfur dioxide, and ammonia vaporizers on the market.

Key Features:

- Feed rates up to 10,000 PPD (200 kg/hr) Cl₂!
- ASME certification and Chlorine Institute conformance!
- All-electronic display with Modbus communication and five 4-20 mA outputs standard!
- User friendly display and installation!
- Automatic superheat monitoring, display and alarm.
- Available in two versions. Version VPH-10000-1 with circulation pump and VPH-10000-2 with internally mounted heater and no circulation pump.

Vaporizer Accessories

Hydro Instruments also offers standard vaporizer pressure protection equipment for both new and existing systems. Use expansion chamber assemblies for overpressure protection on liquid feed lines, and pressure relief valve assemblies for overpressure protection in the vaporizer/gas feed lines. Electronic pressure reducing valves provide shut-off capabilities in alarm conditions.



Expansion Chamber



Pressure Relief Valve Assembly



Electronic Pressure Reducing Valve

OV-1000 Automatic Control Valve

The industry leader in automated vacuum chemical feed technology!

Key Features:

- Feed rates from 0 10,000 PPD (200 kg/hr)
- 3600 step linear stepper motor for more precise and accurate control (2.25" travel)
- Modbus communication standard
- Three analog inputs and two analog outputs
- Compatible with a variety of chemicals (both liquid and gas)

Control Options:

Manual

Flow Proportional

Residual Control

Compound Loop

Dual Input Feed Forward

Dual Set Point

Step Feed



OV-1000

Contact Hydro Instruments for a variety of custom wall mounting and floor cabinet mounting options!









4-20 mA Output Remote Meter

Wall Panels

Vacuum Regulators

Made from solid machined PVC and the highest quality parts available, Hydro Instruments has been manufacturing and supplying top quality high capacity vacuum regulators for over 35 years! Backed by a minimum 3-year product warranty with lifetime warranties on machined bodies.



Feed rates up to 10,000 PPD (200 kg/hr) Cl₂!

3-year product warranty!

Always in stock!

VRH-10000-CL2

High Capacity Ejectors



EJH-3000Fixed Orifice



EJH-4100 *Variable Orifice*

2", 3", and 4" Van Stone style flanged ejectors
Up to 10,000 PPD (200 kg/hr) capacity
Fixed or variable orifice available
Always in stock!

Residual Chlorine Analyzers

Does not rely on sample and hold methods!

Simple calibration and maintenance!

Allows for rapid process control!

Analyzers and parts are stocked for immediate shipment!



Series RAH-210:

- Amperometric residual analyzer
- Available range: 0 –.1 to 0 20 PPM
- Free Chlorine, Total Chlorine,
 Chlorine Dioxide, Bromine, and Iodine
- Continuous sensor cleaning mechanism
- Electrodes in direct contact with the sample water
- Available with a gravity driven reagent feeder, reagent metering pump, or with pH probe for automatic compensation

PRV and Pressure Gauge for a Hydro Instruments Residual Analyzer

Series RPH-250:

- Amperometric Probe-Style Analyzer for Free Chlorine, Total Chlorine, or Chlorine Dioxide
- Transparent bubble trap gravity style flow cell
- Available range: up to 200 ppm Free Chlorine up to 20 ppm Total Chlorine
- Available up to 1,500 PPM range for free chlorine with sample water dilution system.
- pH probe can be included for independent monitoring or for automatic compensation when measuring free chlorine



Peristaltic Buffer Pump Model RAH-210-D



Standard Features On Both Models Include:

- Modbus Communication
- Automatic pH compensation software
- Continuous measurement and rapid response
- Continuous temperature monitoring and compensation
- 4 selectable isolated 4-20mA outputs (Residual, pH, Temperature or Control)
- · 4 Alarm relays
- Complete PID control program
- · Adjustable measurement range
- 2 line x 20 character LCD display

Gas Detectors

Hydro Instruments manufactures two gas alarm detectors, the **GA-180** and the **GA-171**. Both detectors provide reliable and simple solutions for gas detection applications. Both incorporate a basic modular design that can integrate a variety of gas sensor types and feature a user-friendly key pad interface for easy calibration and operation.

GA-180:

- Up to sixteen individual gas sensors per monitor
- Available with 4-20 mA outputs for remote monitoring
- 10 alarm relays standard (available with up to 34 relays)
- Backlit liquid crystal display (LCD) for easy reading
- Built-in 90 dB audible horn
- Optional battery back-up
- Modbus communication





GA-171:

- Up to two sensors per alarm module
- 1 Alarm relay
- Backlit liquid crystal display (LCD) for easy reading, 2 line/20 spaces
- RS-232 communication

Accessories



Gas Filters



IV-830 Isolation Valve Assemblies



Strip Heaters and Drip Leg Heaters



Electronic Ball Valve

Hydro Instruments
offers a complete line
of chemical feed
accessories to
complement any
installation!



Pressure Manifolds

Automatic and Electronic Switchover Systems

Pressure Gauges

Check Valves

Open Channel Diffusers

Manual Ball Valves



IVH-100-500 Isolation Valve Assemblies



Flexible Connectors

Represented By:	

