

The valve that does it all.

- Excellent accuracy
- Perfect repeatability
- Maximum versatility
- Remote adjustment & monitoring
- Gas or Liquid service
- Designed for minimal wear and long life

With the capability of operating in eight different control modes, handling a wide range of chemicals, covering an even larger range of capacities and having a multitude of control options, adjustment features and settings; the Hydro Instruments Series 110 Omni-Valve is truly an all-in-one automatic control valve for chemical feed.

Control Options:

- 1. Manual
- 2. Proportional (i.e. Flow Pacing)
- 3. Set Point-Residual
- 4. Set Point—ORP
- 5. Compound Loop (i.e. PID)
- 6. Step Feed
- 7. Dual Input Feed Forward
- 8. Dual Set Point

Control modes are field selectable and can be changed at any time.

Series 110 Omni-Valve Automatic Control Valve



Features:

- Backlit display (LCD)
- Modbus Communication (RS485)
- Remote Automatic / Manual control
- Remote Duty / Standby control
- 3x 4-20mA analog inputs: Flow, Residual/ORP and Remote Dosage
- 2x 4-20mA analog outputs: Feed rate and/or Process Variable #1
- 2x SPDT alarm relays
- Linear Operation—Eliminates all rotating motion, rotary drive shafts & gears
- V-notch feed control

Due to Hydro Instruments' innovative approach to manufacturing, the Omni-Valve is the industry's first true directly linear drive control valve design. This linear design provides vast improvements over problematic rotary driven valves. The Omni-Valve is the clear industry leader; offering eight different control modes and a vast array of flexible settings and features. Hydro Instruments' state-of-the-art microprocessor technology, highest quality materials of construction, precision machining and minimal number of moving parts make the Omni-Valve extremely reliable over long periods of continuous operation and truly the best automatic control valve on the market.



Basic Specifications

Maximum Capacity

Chlorine: Sulfur Dioxide: Ammonia: Carbon Dioxide:

Available Connections

Up to 250 PPD: Up to 500 PPD: Up to 2000 PPD: 3000 PPD:

Communication

Modbus: Profibus: Analog Inputs:

Analog Outputs:

Relays: VDC Contacts:

Electrical

AC Power: DC Power (optional):

Warranty

Coverage:

1 year (Limited)

12 VDC

120-240 VAC 50/60 Hz

3,000 PPD / 60 Kg/h Cl₂

3,000 PPD / 60 Kg/h SO₂

1,000 PPD / 20 Kg/h NH₃

2,400 PPD / 48 Kg/h CO₂

1/4" NPT inlet / outlet

1/2" NPT inlet / outlet

1.5" Socket inlet / outlet

1" NPT inlet / outlet

Optionally supported

Flow, Residual/ORP, Remote dosage

Gas feed rate and/or Process variable No.1

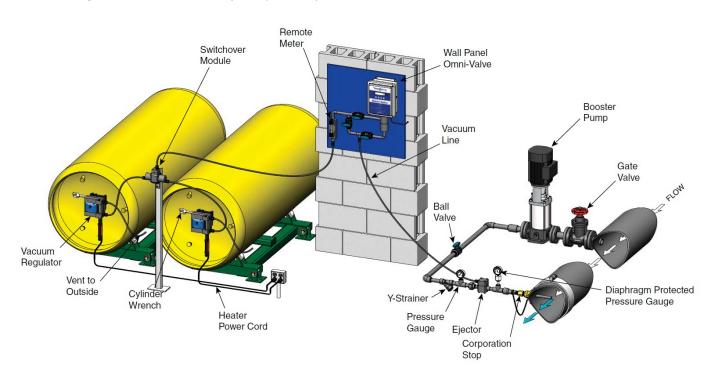
(4x) 12-24 VDC inputs for Step Feed control, Duty / Standby and var. other features.

RS485 RTU

(3x) 4-20mA

(2x) 4-20mA

(2x) 10A SPDT





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