

Series 110 Omni-Valve Automatic Control Valve

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.

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

Available Connections

Up to 250 PPD: 1/4" NPT inlet / outlet
Up to 500 PPD: 1/2" NPT inlet / outlet
Up to 2000 PPD: 1" NPT inlet / outlet
3000 PPD: 1.5" Socket inlet / outlet

Communication

Modbus: RS485 RTU

Profibus: Optionally supported

Analog Inputs: (3x) 4-20mA

Flow, Residual/ORP, Remote dosage

Analog Outputs: (2x) 4-20mA

Gas feed rate and/or Process variable No.1

Relays: (2x) 10A SPDT

VDC Contacts: (4x) 12-24 VDC inputs for Step Feed control,

Duty / Standby and var. other features.

Electrical

AC Power: 120-240 VAC 50/60 Hz

DC Power (optional): 12 VDC

Warranty

Coverage: 1 year (Limited)



