



# Series 110 Omni-Valve

*The valve that does it all...*

- Excellent Accuracy and Repeatability
- Maximum Versatility
- Remote adjustment and monitoring
- Gas or Liquid Metering
- Designed for Minimal Wear and Long Life

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



## Control Options (all standard)

- Manual Control
- Proportional (Flow) Control
- Set Point (Residual) Control
- Set Point (ORP) Control
- Compound Loop (PID) Control
- Step Feed Rate Control
- Dual Input Feed Forward Control
- Dual Set Point Control

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

## Highlighted Features

- Backlit Liquid Crystal Display
- Modbus Communication (RS-485)
- 3 Analog Inputs  
(Flow, Residual and Remote Dosage)
- Adjustable: Dosage, Set Points, Lag Time, Signal Filters, Display Ranges, Alarms & More
- Linear Operation Eliminates Rotary Drive Gears & All Rotating Motion
- Broad Range of Chemicals & Capacities
- Two 4-20 mA Outputs
- Password Protected Settings

Because of 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 industry leader in terms of offering 8 different control modes (all standard) and a wealth of flexible settings and features. Our state-of-the-art microprocessor technology, highest quality materials of construction, precision machining and a minimal number of moving parts combine to make the **Omni-Valve** extremely reliable over long periods of continuous operation and truly the best automatic control valve available on the market.



# Series 110 Omni-Valve

## OV-110 Ordering Information

Model: OV-110 - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

### MAXIMUM CAPACITY

1. 500 ppd (10 kg/hr)
2. 2000 ppd (40 kg/hr)
3. 3000 ppd (60 kg/hr)

### GAS OR LIQUID

- A. Ammonia (NH<sub>3</sub>)
  - B. Sodium Bisulfite (NaHSO<sub>3</sub>)
  - C. Chlorine (Cl<sub>2</sub>)
  - S. Sulfur Dioxide (SO<sub>2</sub>)
  - H. Sodium Hypochlorite (NaOCl)
- Other:** Consult Factory

### RANGE

- |                       |                        |
|-----------------------|------------------------|
| 1. 10 ppd (200 gr/hr) | 6. 500 ppd (10 kg/hr)  |
| 2. 25 ppd (500 gr/hr) | 7. 1000 ppd (20 kg/hr) |
| 3. 50 ppd (1 kg/hr)   | 8. 2000 ppd (40 kg/hr) |
| 4. 100 ppd (2 kg/hr)  | 9. 3000 ppd (60 kg/hr) |
| 5. 250 ppd (5 kg/hr)  |                        |

*Note: For liquid use please specify the desired max capacity.*

### POWER REQUIREMENTS

1. 120V 60Hz
2. 240V 50Hz

### CONTROL CONFIGURATION

- |                             |                            |
|-----------------------------|----------------------------|
| 1. Flow Pacing              | 5. Compound Loop (ORP)     |
| 2. Residual                 | 6. Step Feed               |
| 3. ORP                      | 7. Dual Input Feed Forward |
| 4. Compound Loop (Residual) | 8. Dual Set Point          |

### POWER CABLE LENGTH

1. 6 feet (1.5 m) standard
2. Other (consult factory)

### SIGNAL CABLE LENGTH

1. 25 feet (8 m) per input channel
2. Specify length required

### POWER LINE ISOLATOR

1. None (standard)
2. Included

Capacity Ranges	
<b>Gas Feed</b>	10, 25, 50, 100, 250, 500, 1000, 2000, & 3000 PPD
<b>Liquid Feed</b>	4 GPH through 10 GPM



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