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**

#### Capacity Ranges

<table>
<thead>
<tr>
<th>Gas Feed</th>
<th>10, 25, 50, 100, 250, 500, 1000, 2000, &amp; 3000 PPD</th>
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</thead>
<tbody>
<tr>
<td>Liquid Feed</td>
<td>4 GPH through 10 GPM</td>
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</table>

#### 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 (NH₃)
- B. Sodium Bisulfite (NaHSO₃)
- C. Chlorine (Cl₂)
- S. Sulfur Dioxide (SO₂)
- H. Sodium Hypochlorite (NaOCl)
- Other: Consult Factory

### Range

1. 10 ppd (200 gr/hr)
2. 25 ppd (500 gr/hr)
3. 50 ppd (1 kg/hr)
4. 100 ppd (2 kg/hr)
5. 250 ppd (5 kg/hr)
6. 500 ppd (10 kg/hr)
7. 1000 ppd (20 kg/hr)
8. 2000 ppd (40 kg/hr)
9. 3000 ppd (60 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
2. Residual
3. ORP
4. Compound Loop (Residual)
5. Compound Loop (ORP)
6. Step Feed
7. Dual Input Feed Forward
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