



Series 1000 Omni-Valve Automatic Control Valve

Hydro Instruments' groundbreaking automatic control valve is now even better with the advent of the new OV-1000 Omni-Valve. The new OV-1000 has a longer travel motor, longer V-notch stem and greater feed capacity capability.

The longer travel motor allows for finer control between feed points, saving you more chemical and more money. Longer travel also offers improved control for higher capacities up to 10,000 PPD (200 kg/h) Cl₂ feed.

Features & Benefits

The OV-1000 Omni-Valve has all of the same features and benefits as the OV-110 Omni-Valve and more.

- Feed rates up to 10,000 PPD (200 Kg/h) Cl₂
- Compatible with a variety of gas and liquid chemicals.
- Precise feed rate control allows for optimal chemical usage and cost savings.
- Long 2.5" motor and V-notch stem travel
- Eight field selectable control options:
 - Manual
 - Proportional (i.e. Flow Pacing)
 - Set Point—Residual
 - Set Point—ORP
 - Compound Loop (i.e. PID)
 - Dual Input Feed Forward
 - Dual Set Point
 - Step Feed
- MODBUS (RS-485) communication + 3 analog inputs and 2 analog outputs
- Designed for minimal wear and long life.



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 7 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.



Basic Specifications

Maximum Capacity

Chlorine:	10,000 PPD / 200 Kg/h Cl ₂
Sulfur Dioxide:	10,000 PPD / 200 Kg/h SO ₂
Ammonia:	5,000 PPD / 100 Kg/h NH ₃
Carbon Dioxide:	8,000 PPD / 160 Kg/h CO ₂

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
Up to 10,000 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)
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