



SUPERIOR™ AutoValve

Take Control Of Your System. SUPERIOR™ AutoValve is a microprocessor based device for automatically controlling the feed rate of chlorine, sulphur dioxide, or ammonia and is available for automatic residual, flow proportioning, and compound loop control, using process water flow rate, residual setpoint, or a combination of those parameters.

Why SUPERIOR™ AutoValve?

-  **Non Corrosive Materials Of Construction**
-  **All Titanium Right Where It Counts**
-  **Easy Setup & Calibration**
-  **Industry-wide Easiest Operation & BEST PERFORMANCE**
-  **Highest Accuracy Powerful Hybrid Stepper Motor**

The SUPERIOR™ AutoValve is the only automatic control valve with all three control modes already built in to the controller, so there is no need for additional modules. Quick to set up and simple to use and maintain, just ask any user!

Operators and users swear by SUPERIOR™ AutoValve. "It's bulletproof!"

SUPERIOR Control. SUPERIOR Safety. SUPERIOR Performance. It's time.



Chemical Injection Technologies, Inc.

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Engineering Specifications

Power: 115/230 VAC (+ 15%), 50/60 Hz, Single Phase.

Physical Inputs: FLOW: 4-20mA DC
VALVE POSITION: Potentiometer input, (Approx. 0.25-2.25 VDC)
RESIDUAL : 4-20mA DC

4-20mA Input Impedence: 250 Ohm (+/- 1%)

Display: 2-line, 16 character, back-lighted LCD.

Calibration: Factory Set, field adjustable.
0%, 25% & 100% valve setpoints
4mA & 20 mA Input signal
4mA & 20 mA Output (Valve Position)
Input Signal Filter; 0-50S

Alarm Contacts: 10 Amps @120 VAC or 30 VDC
5 Amps @ 240 VAC resistive load, unlatching.

Dosage Ratio: 4:1, adjustable through keypad and display.

EEPROM: 256 bytes

Outputs: 2.5 VDC potentiometer excitation
4-20mA reference to local ground
600 ohm drive (maximum)

Stepper Motor: Bi-polar (4 wire), 5.6 VDC, 1A
Phase Resistance 5.6 Ohms
Phase Inductance 25.6 mH
Holding Torque 72 oz-in
Rotor Inertia 0.00166 oz-in-sec²

Valve Plug Travel: 1.25" Maximum

Keyboard Inputs: Dosage Ratio
Alarm set points
Manual position set
Calibration for 0%, 25% & 100% (Valve Open positions)
4-20 mA input, 4-20 mA output Calibration
Input Signal Filter
(Adjust sensitivity to minor signal change)

Control Mode: Manual or Automatic

Chemical Feed: Chlorine Gas, Sulphur Dioxide Gas, Anhydrous Ammonia Gas, Sodium Hypochlorite, Aqueous Ammonia, Sodium Bisulfate Solution. (Consult factory for other liquids.)

Maximum Feed Rates: 10, 25, 50, 100, 200 & 500 PPD
(200, 500, 1000, 2000, 5000, 10,000 g/hr)
1,000, 2,000, 4,000, 6,000, 8,000, & 10,000 PPD
(20, 40, 80, 120, 160, & 200 kg/hr)

Shipping Weight: 36 lbs. (16.3 KG)

SUPERIOR™ AutoValve Feed Rates Meet Your Needs
Serving systems from 10 PPD all the way to 10,000 PPD
(200 g/hr to 200 kg/hr)



Chemical Injection Technologies, Inc.
ISO 9001:2008
Certificate Number: C0253760-IS1

SUPERIOR
WATER SOLUTIONS