

ACROMET AV SERIES AUTO VALVE

For Automatic Flow Proportioning, Residual, and Compound Loop Control of Chlorine or Sulphur Dioxide Gas

FEATURES

- Backlit display.
- Push button calibration.
- Password protected.
- Flow/Residual/Compound.
- 4 – 20mA and Alarm outputs.
- PVDF maintenance free valve assembly.
- Titanium bolts and shaft.

GENERAL DESCRIPTION

The new Acromet Auto Valve is designed to give water and wastewater treatment facilities a true operator-friendly means of controlling the feed rate of chlorine or sulphur dioxide gas when treating varying water flow rates and/or residuals. Quick response times and a very rugged, powerful hi-torque DC stepper motor give unsurpassed accuracy and reliability.

Acromet Auto Valve can be installed in virtually any existing gas chlorination or sulphur dioxide system and combined with push button menu and display can be up and running in less than 30 minutes.

All that is required is a 4 to 20 milliamp signal from a water flow meter or other source ie a 120/240 VAC power supply, and a gas chlorinator (or sulphonator).

The user-friendly menu system guides you through any calibration operation, although most installations will only require a minimum initial check to set maximum gas feed rates.

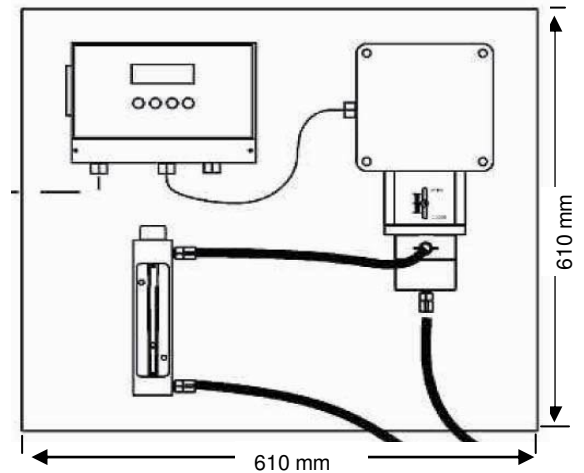
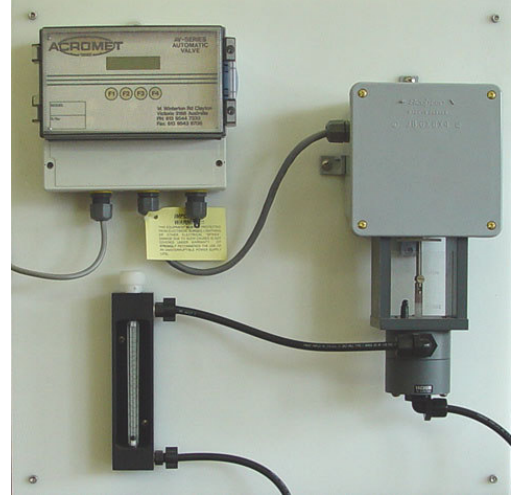
OTHER OPTIONS INCLUDE:

A "Low Flow" alarm set point allows the operator to hook up any type of signalling device to let personnel know if the input signal has been interrupted, if the flow of water or the residual has fallen below a predetermined level.

A 4 to 20 milliamp output signal allows for transmission of the valve position to a remote monitoring location and can be used in SCADA systems.

Input signal filtering allows user adjustment of the controller's sensitivity to very small changes in the input signals. This eliminates "pulsing" signals which can cause continual movement of the valve, a source of maintenance problems in many older designs.

Dosage rates and residual set points can be easily adjusted to account for seasonal or short term environmental variables which may cause a change in the chlorine or sulphur dioxide demand of the treated water.



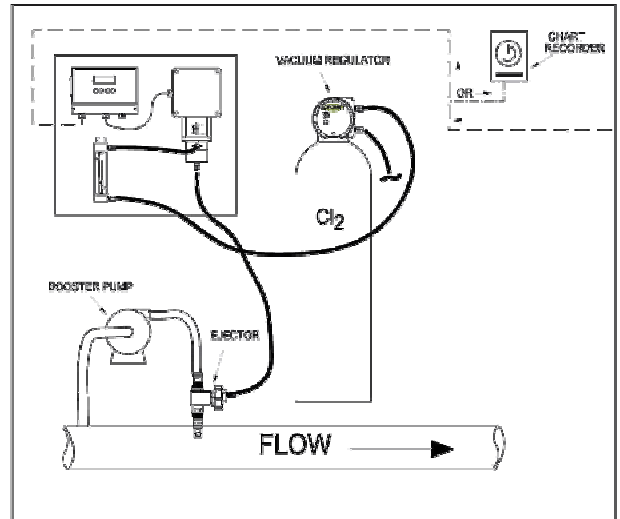


OTHER OPTIONS INCLUDE CONTINUED:

A MANUAL control mode allows operators to quickly and easily adjust the gas feed rate from the menu control panel, in the event that an input signal is lost due to flow meter problems or cable damage.

Programming and circuitry has built-in "sanity checks" to prevent system lock-up when unexpected values are received by the controller, or if incorrect calibration procedures are performed.

Maximum feed rate capacities up to 2000 PPD (40 kg/hr) are available.



MODELS AVAILABLE

MODEL	CAPACITY	SCALES	CONNECTIONS
AV-1	2 kg/hr	36, 66, 250, 500 g/hr. 1 kg/hr & 2 kg/hr	1/4"
AV-2	5 kg/hr	5 kg/hr	1/2"
AV-5	10 kg/hr	10 kg/hr	5/8"
AV-10	20/20 kg/hr	20/40 kg/hr	1"

SPECIFICATIONS

Power:	230 VAC (+15%), 50/60 Hz, Single Phase.	Environment:	0° to 50°C
Inputs:	FLOW: 4 – 20 mA DC @ 250 Ω RESIDUAL: 4 – 20 mA DC @ 250 Ω	Stepper Motor:	Bi-polar (4 wire), 5.6 VDC, 1A Phase Resistance 5.6Ω Phase Inductance 25.6 mH Holding Torque 72 oz-in Rotor Inertia 0.00166 oz-in-sect
Display:	2-line, 16 character, back-lighted LCD.	Valve Plug Travel:	1.25" Maximum
Calibration	Factory Set, field adjustable. 0%, 25% and 100% valve set points 4 – 20 mA Input signal 4 - 20 mA Output (Valve Position) Input Signal Filter: 0 – 50S.	Keyboard Inputs:	Dosage Ratio, Residual Set Point, Alarm Set Points, Manual Position Set, Calibration for 0%, 25%, 50% and 100% Valve Open positions , 4 – 20 mA input, 4-20 mA output Calibration, Input Signal Filter (Adjust sensitivity to minor signal change)
Alarm Contacts:	10 Amps @ 120 VAC or 30 VDC 5 Amps @ 240 VAC resistive load, unlatching.	Control Mode:	Manual or Flow/Residual/Compound
Dosage Ratio:	4:1, adjustable through keypad and display.	Shipping Weight:	13.6 kg
Outputs:	2.5 VDC potentiometer excitation 4-20 mA reference to local ground – 600 Ω drive (maximum).		

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