



Electronic Products for Waterworks Applications



Products that provide control

VC-22D Electronic Valve Controller with Standard and Customizable ValvApps™



PID Control
Used to maintain a control valve at setpoint, multiple PID loops can be programmed with each of them, allowing local or remote operation. A wide range of valve types helps to visualize valve response and fine tune valve response. Programmable response opening, closing, hydraulic stroke.

Control Curves
Users can select to create a relationship between two system variables. Using graphical functions, the user defines the control curve including timing, opening, flow, level, and/or time directly on the screen. Up to four curves allowing independent control with opening and closing or limited industrial level control.

Actions
Used to send "action" (or alarm) when programmable conditions (e.g. 2 psi) are met by having an initial value, setpoint, or # of 4-20 mA loops. The timing may vary to send to send an alarm to SCADA. Up to four actions can be programmed including standard.

Retransmission
Used to retransmit any field signal, variable, or calculation to a SCADA system. Up to four retransmission signals such as pressure, flow, or level can be retransmitted through the 4-20 mA output.

DP Metering
Used to measure flow based on valve position and DP. The measured flow value can be displayed and controlled without a separate flow meter. An existing flowmeter with this feature is included in the standard control system. All standard control valve types are included.

Totalizer
Sum of total volume as a function of flow rate and valve position. Configurable for flow rate or position. Allow for simplified set-up and configuration. Can be used for volume or level control applications limiting water volume taken from booster per day or site each week.

Data Logging and Log File
All input and output values are logged according to a programmable schedule. Default logging is every 5 minutes but can be as low as 1 minute or as high as 15 minutes. Can be used for volume or level control applications limiting water volume taken from booster per day or site each week. Data is stored in MS Excel CSV readable format. Transfer via USB.

VC-22D Electronic Valve Controller

- Provides remote or local set-point control for valves in a variety of fluid applications
- Available versions: IP-68, IP-65 and Panel Mount
- Supplied with pre-loaded ValvApps™ for most common valve functions
- Custom ValvApps™ can be created for unique applications
- Monitors and displays multiple processes with accurate retransmission of parameters to SCADA systems
- Supplied with Standard Alarm Outputs
- Logging capabilities • Low power consumption

exceptional control • simple to use

34 Series Electronic Control



retrofittable 34 Series Electronic Pilot Control

300 Series Electronic Control Valve



Cla-Val 34 Series Electronic Actuated Pilot Control

- Provides simplified remote valve set-point adjustment
- Enables accurate downstream control using any SCADA-type control system using an analog 4-20mA signal
- 12-24VDC input power
- Reverse polarity protection
- IP-68 Submersible
- Ideal for isolated locations and confined spaces
- Available configurations:
 - CRD-34 Pressure Reducing Electronic Pilot Control
 - CDHS-34 Rate-of-Flow Electronic Pilot Control
 - CRL-34 Pressure Sustaining Electronic Pilot Control

remote control for a variable output

Cla-Val PC-22D Pump Control Panel



PC-22D Pump Control Panel

PC-22D Pump Control Panel

- Pre-programmed Valve Controller
- Suitable for all Booster Pump and Deep Well Applications
- Works with 60 Series and 131 Series Control Valves
- Electronically Control Open/Closing Speed of Control Valve
- Indicator Lights Monitor System Status
- NEMA 4X Rated Enclosure
- Controls single and dual chambered pump control valves
- Local visual indication of pump and control valve status
- Easy to adjust sequence timers
- Displays time for system to build pressure and for valve to open
- Contacts provided for remote or automatic start signal
- Operator interface buttons and reset switch

exceptional precision and reliability for smooth pump operations

Products that provide onsite power

X143 Series Power Generators

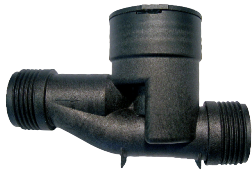


retrofitable
X143IP Power
Generator

X143IP Intermediate Turbine Power Generator

- Uses the hydraulic energy of the system to generate power
- Retrofits to an existing Cla-Val Control Valve
- Can be specified on a new valve
- Ideal for isolated locations and confined spaces
- Generates up to 14 watts of power to operate onsite equipment without tying into the grid, including the following:
 - Electronic Control Valves
 - Electronic valve Controllers
 - Communications Equipment
 - Data loggers that capture and store information

all you need is flow and differential pressure



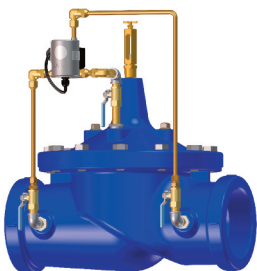
retrofitable
X143MP Power
Generator

X143MP Micro Turbine Power Generator

- Uses the hydraulic energy of the system to generate power
- Retrofits to an existing Cla-Val Control Valve
- Can be specified on a new valve
- Ideal for isolated locations and confined spaces
- Generates .7 watts of power to operate onsite equipment when there is no available power
- Use two in series to generate more power
- Ideal for applications using:
 - Cell phones and GSM communication devices
 - Data loggers that capture and store information

onsite power without tying into the grid

139-10 & 639-10 Programmable Timer Control Valve



Timer Controlled Valve with CTC-33 Control

- Two year battery life on the CTC-33
- Retains stored data even after battery is depleted
- Direct control of valve opening and closing times daily
- Interval Timing Capable
- IP-68 Submersible



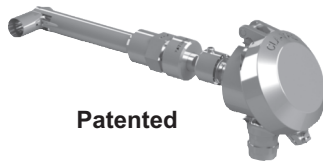
Cla-Val CTC-33 Timer Control

- Programmable daylight savings times
- High energy efficiency
- Battery life exceeds 2 years
- Retains stored data even after battery is depleted
- Direct control of valve opening and closing 4 times daily
- IP-68 submersible

ideal for remote locations • requires no electricity

Products that provide information

X144D e-FlowMeter with LCD Touch Screen Display



Patented



Installation view

simple • reliable • cost effective

X144D e-FlowMeter Vortex Shedding Meter

- The e-FlowMeter™ can be retrofitted to an existing Cla-Val Automatic Control Valve or factory assembled on a new valve
- Built-In LCD Touch Screen
- Alleviates the need for an inline meter and the associated installation costs
- Provides flow data with accuracy +/- 2% of Full Scale
- IP68 Submersible
- Mounts on either inlet body tapping of the Cla-Val Control Valve
- Stainless Steel Construction
- 12/24 VDC 1.0 Watts minimum
- Plug-and-Play Metering
- No Moving Parts
- Independent laboratory tested



X145 Series e-Display



- Ideal for use with the X144 e-FlowMeter
- Displays: Flow Rate, Total, Pressure, Position and mA
- IP-67 Submersible
- SCADA compatible
- Customizable units
- Backlight optional
- Integral wall-mount hardware included

accurate • retrofittable • economical

X117 Series Valve Position Transmitter



- Accurately Monitors Valve Position
- Environmentally Sealed to IP-68
- Featured on Electronic Control Valves
- Easy Field Adjustments
- Compact and Rugged Construction

SCADA compatible • 4 to 20mA output signal

GLOBAL HEADQUARTERS

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