



Control • Power Information Communication



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Products that provide control

VC-22D Electronic Valve Controller



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. An alarm alert can help to visualize valve response and fine tune valve response. Programming is achieved using graphical hydraulic circuits.

Control Curves
Users can define a relationship between two system variables. Using graphical functions, the user defines the control curve (proportional-integral-derivative, flow, level, and/or time directly on the screen. Up to four control curves allowing independent control for valve opening and closing or limited industrial level control.

Actions
Used to send "action" (or alarm) when programmable conditions (e.g. 24 hrs) are met by having an initial value assigned, or a 200 ms delay. The timing may can be used 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 most signals such as pressure, flow, or level can be retransmitted through the web or radio.

DP Metering
A built-in function to calculate flowrate based on valve position and DP. The measured flow value can be displayed and controlled without a separate flow meter. An internal flowmeter can be included in the standard control system. All standard flow rate curves are included.

Totalizer
Used to calculate total volume as a function of flow rate or valve position. The totalizer can be used for controlled set-up and configuration. Can be used for volume or batch control applications (empty water volume taken from header 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 batch control applications (empty water volume taken from header per day or site each week).

- Provides remote or local set-point control for valves in a variety of fluid applications
- IP68 Submersible
- 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



retrofitable 33 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
- IP68 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

CPC Position Control

138 Series Position Control Valve with retrofitable CPC Position Control Pilot



Cla-Val CPC Electronic Pilot & 138 Series Position Control Valve

- Regulates flow, pressure or other system parameters by changing valve position
- Position can range from drip-tight shut-off to fully open
- Highly energy efficient with low operating friction
- Ideal for pressure, flow or level control applications

CTC-33 Timer Control

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
- IP68 submersible

Products that generate 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

NEW! 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
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Products that provide information

X144 e-FlowMeter



Patented



Installation view

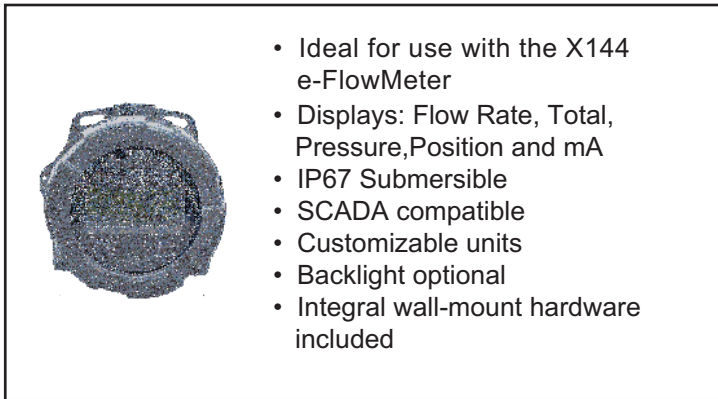
X144 e-FlowMeter Vortex Shedding Meter

- The e-FlowMeter™ can be retrofitted to an existing Cla-Val Automatic Control Valve or factory assembled on a new valve
- 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
- 4-20mA Loop Powered
- Plug-and-Play Metering
- No Moving Parts
- Independent laboratory tested

simple • reliable • cost effective

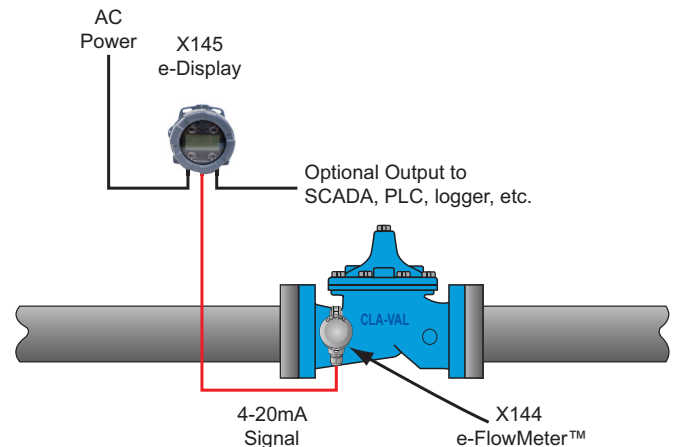


X145 Series e-Display

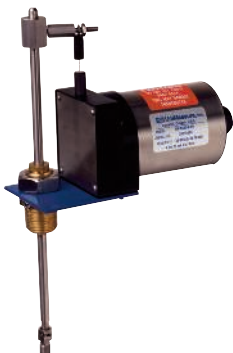


- Ideal for use with the X144 e-FlowMeter
- Displays: Flow Rate, Total, Pressure, Position and mA
- IP67 Submersible
- SCADA compatible
- Customizable units
- Backlight optional
- Integral wall-mount hardware included

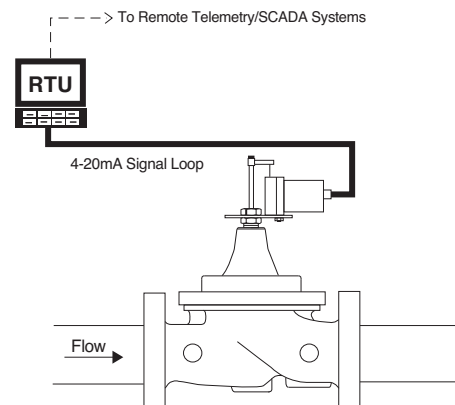
accurate • retrofittable • economical



X117 Series Valve Position Transmitter



- Accurately Monitors Valve Position
- Environmentally Sealed to IP68
- Featured on Electronic Control Valves
- Easy Field Adjustments
- Compact and Rugged Construction



SCADA compatible • 4 to 20mA output signal