Ultimate capabilities for automatic control valves:
Power • Control • Information • Communication

When Cla-Val released the VC-22D Electronic Valve Controller, we knew it was a game-changer. We understood immediately that we had designed a product with immense potential.

Proof that good things come in small packages
In one small device that you can easily hold in one hand, the ability to control a multitude of waterworks valve applications exists. Pressure Control with Upstream or Downstream Feedback, Flow Control with Mag Meter or Electronic Flow Meter; Modulating Level Control; Ratio Control; Altitude and Level Control; Logging; Pump Control and Pressure Management are a few of the more common applications the VC-22D can control.

The "Wise and Powerful" VC-22D
The VC-22D's unique capabilities are made possible by built-in software - something we call ValveApps™, and some pretty powerful tuning capabilities. Simply put, the VC-22D turns a standard electronic control valve into an "all-knowing, all-seeing" smart valve. Working in conjunction with a SCADA system, it is a simple, easily deployed means to optimize waterworks system performance.

VC-22D

The VC-22D is supplied with pre-loaded ValveApps™ for most common valve functions (mentioned above) and can enable a single valve to perform multiple functions. Custom ValvApps™ can be created to meet unique application requirements such as water conductivity or control of another type of valve, such as actuated butterfly or ball valves.

During the development phase, customer input made it obvious that the most important characteristics of the new controller would need to be simple user interface and straightforward navigation…no programmers necessary!

Cla-Val Engineers ultimately designed a controller with a long list of advantages. They created a product that acts as a hub for controlling valve functions and communication between SCADA and a suite of complementary components such as electronic pilots, flow meters, position transmitters, and other electronic devices. With the VC-22D, they bridged the gap between SCADA and a control valve in a way that has not been possible before.

A few more technical details you ought to know
The VC-22D provides remote or local set-point control for valves in a variety of fluid applications and includes the following HIGHLY beneficial features and advantages:

- Accurate and stable valve control
- IP-68 Submersible Enclosure
- Monitoring and display of multiple processes with accurate retransmission of parameters to SCADA systems
- Inputs: Six Analog 4-20mA and Six Digital
- Outputs: Four Analog 4-20mA, Two Output Solenoid and Two Output Relays
- Supplied with Standard Alarm Outputs
- Logging capabilities
- Low power consumption: less than 3 watts and low voltage: 12 - 24VDC
- Can be powered by a Cla-Val X143IP Series Power Generator
- Modbus TCP and RTU communications

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What if a valve installation doesn't have power – can the VC-22D still be used?
For valve installations without power, the Cla-Val X143IP Intermediate Power Generator can be installed in the control valve to use the hydraulic energy in the pipeline and an integral turbine to generate enough power to operate the VC-22D Valve Controller.


X143IP

The X143IP generates up to 14 watts power to operate electronic products in the near vicinity of the valve installation, including the VC-22D, electronically controlled pilots, electronic flow meters and communications equipment.

Advantages of using a valve controller developed by a valve manufacturer
The VC-22D is the culmination of 25+ years of experience in electronic valve control and nearly 80 years of designing and manufacturing automatic control valves. The VC-22 controller was developed by control valve experts who knew what its capabilities needed to be and what control valves are actually capable of beyond basic functions. Highly customized valve applications are now possible.

The new valve controller is part of a growing line of electronic products (e-products) developed by Cla-Val to add capabilities and enhance the performance of automatic control valves. Other Cla-Val e-products include the X144 e-FlowMeter, 33 Series Electronically Actuated Pilot Controls, and the X145 Electronic Display, to name a few.

It makes sense to use products that are developed to work with each other
There are distinct advantages in using Cla-Val's suite of e-products versus a collection of electronic components that are not specifically designed to work in concert with one another. Cla-Val e-products are designed and manufactured by Cla-Val and we support what we sell. Phone calls to multiple component manufacturers are not necessary. Our expertise in developing control solutions for real-world valve applications is considerable and we are committed to continuous development of electronic products that further enhance control valve capabilities.

Visit http://www.cla-val.com/electronic-products to learn more and see our complete range of Cla-Val e-products that optimize waterworks distribution systems and enhance valve performance.

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