



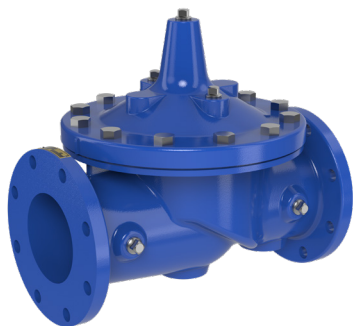
# Automatic Control Valves

*Waterworks Applications*



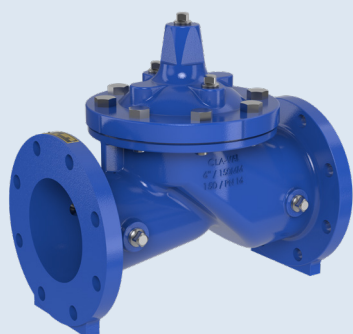
PRESSURE REDUCING | PRESSURE RELIEF | LEVEL CONTROL | ELECTRONICS

# Main Valves



## Model 100-01 Full Port Hytrol Valve

- The 100-01 Hytrol Valve is a hydraulically operated, diaphragm actuated, globe or angle pattern valve.
- Drip-Tight, Positive Seating
- Service Without Removal From Line
- Threaded, Flanged or Grooved Ends
- Globe or Angle Pattern
- Every Valve Factory Tested



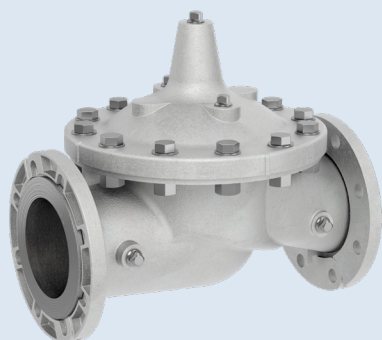
## Model 100-20 Reduced Port Hytrol Valve

- The 100-20 Hytrol Valve is a hydraulically operated, diaphragm actuated, globe or angle pattern valve.
- Reduced Cavitation Design
- Drip-Tight, Positive Seating Action
- Service Without Removal From Line
- Globe or Angle Pattern
- Every Valve Factory Tested



## Pump Control Valve

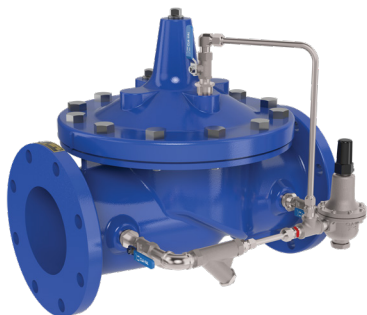
- The Pump Control Valve is a hydraulically operated diaphragm valve with two separate chambers to control valve position.
- Globe or Angle Pattern
- Drip-Tight, Positive Seating
- Dual Chamber
- Packless Construction



## Model 100-46 Stainless Steel Hytrol Valve

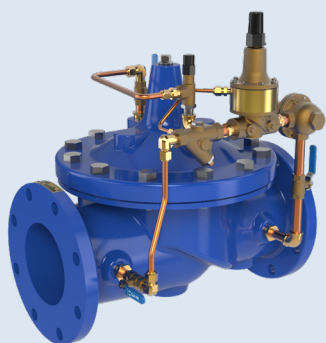
- The 100-46 Hytrol Stainless Steel Valve is a full ported hydraulically operated, diaphragm actuated, globe pattern valve with all Stainless Steel metal parts.
- Reduced Cavitation Design
- Drip-Tight, Positive Sealing Action
- Service Without Removal From Line
- Packless Construction

# Pressure Reducing Valves



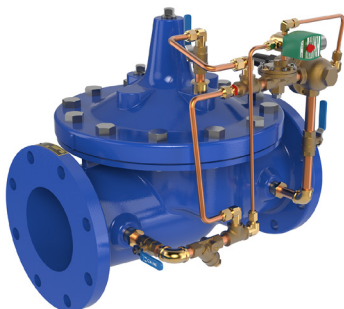
## 90 Series Pressure Reducing Valve

- Automatically reduce a higher inlet pressure to a steady lower downstream pressure, regardless of changing flow rate and/or varying inlet pressure using a CRD pilot control
- End Connections: Threaded, Flanged and Grooved
- Sizes 1-inch through 36-inches
- Series 690 is the reduced port version of the 90-01



## 92 Series Combination Pressure Reducing and Pressure Sustaining Valve

- Performs two independent functions in a waterworks system:
  - 1) Maintains a constant downstream pressure
  - 2) Sustains the upstream pressure to a pre-determined minimum
- End Connections: Threaded, Flanged and Grooved
- Sizes 1-inch through 36-inches
- Series 692 is the reduced port version of the 92-01



## 93 Series Combination Pressure Reducing and Solenoid Shut-Off Valve

- Holds downstream pressure to a pre-determined delivery pressure, and reduces high transmission line pressures to lower distribution system requirements
- End Connections: Threaded, Flanged and Grooved
- Sizes 1-inch through 36-inches
- Series 693 is the reduced port version of the 93-01



## 94 Series Combination Pressure Reducing and Surge Valve

- Automatically reduces a higher inlet pressure to a steady lower downstream pressure and prevent a rapid pressure rise downstream
- End Connections: Threaded, Flanged and Grooved
- Sizes 1-inch through 36-inches
- Series 694 is the reduced port version of the 94-01

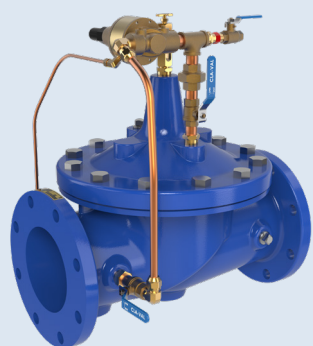


# Pressure Relief Valves



## 50 Series Pressure Relief and Pressure Sustaining Valve

- The valve is actuated by line pressure through the CRL-60 pilot control, opening fast to maintain steady line pressure but closing gradually to prevent surges
- End Connections: Threaded, Flanged and Grooved
- Sizes 1-inch through 36-inches
- Series 650 is the reduced port version of the 50-01



## 50 Series Excess Pressure Safety Shut-Off Valve

- The valve automatically protects downstream distribution piping and fixtures or municipal systems from experiencing excess, unsafe pressures
- End Connections: Threaded, Flanged and Grooved
- Sizes 1-inch through 36-inches
- Series 650 is the reduced port version of the 50-33



## 52 Series Pressure Relief and Surge Anticipator Valve

- During pump starts and stops, the control valve opens on the initial low pressure wave, anticipating and diverting the returning high pressure wave from the system
- End Connections: Threaded, Flanged and Grooved
- Sizes 2-1/2-inches through 18-inches
- Series 652 is the reduced port version of the 52-03



## 58 Series Combination Back Pressure and Solenoid Shut-Off Valve

- Performs three independent functions in a waterworks system:
  - 1) Maintains back pressure by discharging excess pressure downstream
  - 2) Opens when the inlet pressure is greater than the CRL-60 pilot control setting, modulating to maintain back pressure
  - 3) Closes when a solenoid is activated
- End Connections: Threaded, Flanged and Grooved
- Sizes 1-inch through 36-inches
- Series 658 is the reduced port version of the 58-01



# Electronic Control Valves



## 340 Series Electronic Rate of Flow Control Valve

- The valve controls flow by limiting flow to a pre-selected maximum rate (within a four to one ratio), regardless of changing line pressure using the Cla-Val Model CDHS-34 actuated pilot control
- End Connections: Threaded, Flanged and Grooved
- Sizes 1-1/2-inch through 36-inches
- Series 6340 is the reduced port version of the 340 Series valve



## 350 Series Electronic Pressure Sustaining Control Valve

- The 350 Series valve is a hydraulically operated, pilot controlled, modulating valves designed to maintain constant upstream pressure within close limits using the CRL-34 pilot control,
- End Connections: Threaded, Flanged and Grooved
- Sizes 1-inch through 36-inches
- Series 6350 is the reduced port version of the 350 Series valve



## 390 Series Electronic Pressure Reducing Control Valve

- The valve is an accurate, pilot-operated regulator capable of holding downstream pressure to a pre-determined limit utilizing the CRD-34 Electronic Actuated Pilot Control
- End Connections: Threaded, Flanged and Grooved
- Sizes 1-inch through 36-inches
- Series 6390 is the reduced port version of the 390 Series valve

# Solenoid Control Valves

VC-22D



## 131 Series Electronic Control Valve with VC-22D Controller

- The valve is a hydraulically operated with solenoid pilot controls, actuated by electrical signals from the VC-22D Electronic Valve Controller anywhere remote control is desired
- End Connections: Threaded, Flanged and Grooved
- Sizes 1-inch through 36-inches
- Series 631 is the reduced port version of the 131-01

VC-22D



## 133 Series Metering Valve with VC-22D Controller

- The 133 Series metering valve is a completely self contained valve and control system that accurately meters and/or controls flow rate
- Completely Self Contained
- Reliable Analog Communications
- Retransmission Capabilities
- Ideal for Retrofitting Existing Valves
- Security System to Prevents Unauthorized Changes



## 136 Series Solenoid Control Valve

- The 136 Series valve is an on-off control valves that either opens or closes upon receiving an electrical signal to the solenoid pilot control
- End Connections: Threaded, Flanged and Grooved
- Sizes 1/2-inch through 36-inches
- Series 636 is the reduced port version of the 136-01 valve

# Pump Control Valves



## 60 Series Booster Pump Control Valve

- 60 Series Booster Pump Control Valves are installed on the discharge of booster pumps to eliminate pipeline surges caused by the starting and stopping of the pump
- 60 Series Valves are specifically designed for larger sized pump stations
- End Connections: Threaded and Flanged
- Sizes 10-inches through 16-inches
- Reduced port valve: 660 Series



## 61 Series Deep Well Pump Control Valve

- 61 Series Deep Well Pump Control Valves are designed to protect pipelines from surges caused by the starting and stopping of deep well pumps
- Separate adjustable flow control valves in the pilot system regulate the opening and closing rates
- End Connections: Threaded and Flanged
- Sizes 2-1/2-inches through 24-inches
- Reduced port valve: 661 Series

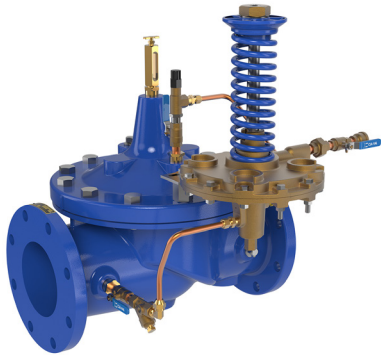


## 63 Series Pump Control Valve

- Valve can be sized for minimal head loss
- Eliminates surges due to starting and stopping of pumping system
- Electronically control opening and closing speed, time and position
- Programmable control curves for optimum opening and closing rates
- Multi-function capability; hydraulic check feature
- Valve can be sized for minimal head loss
- Eliminates surges due to starting and stopping of pumping system

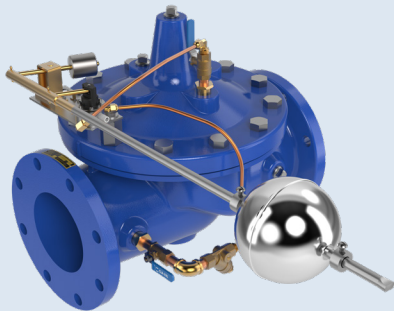


# Altitude, Level and Float Valves



## 210 Series Altitude Valve for One-Way Flow

- 210 Series Valves control the high water level in reservoirs
- The valves remain fully open until the shut-off point is reached
- End Connections: Threaded, Flanged and Grooved
- Sizes 1-inch through 36-inches
- Reduced port valve: 610 Series



## 124 Series Non-Modulating Float Valves

- 124 Series Non-Modulating Float Valves accurately control the liquid level in water storage tanks and reservoirs
- End Connections: Threaded, Flanged and Grooved
- Sizes 1/2-inch through 6-inches
- Reduced port valve: 624 Series



## 428 Series Modulating Float Valve

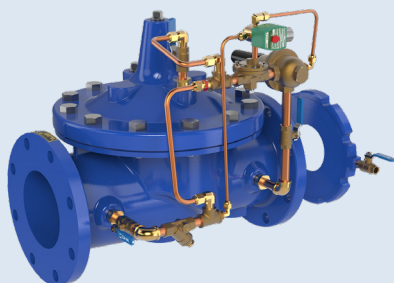
- 428 Series Float Valves modulate to maintain a constant liquid level in a storage tank
- End Connections: Threaded, Flanged and Grooved
- Sizes 1/2-inch through 6-inches
- Reduced port valve: 628 Series

# Rate-of-Flow Control Valves



## 40 Series Flow Control Valve

- 40 Series Flow Control Valves prevent excessive flow by limiting flow to a pre-selected maximum rate, the CDHS18 pilot control
- End Connections: Threaded, Flanged and Grooved
- Sizes 1-1/2-inch through 36-inches
- Reduced port valve: 640 Series



## 43 Series Combination Rate of Flow Controller and Solenoid Shut-Off Valve

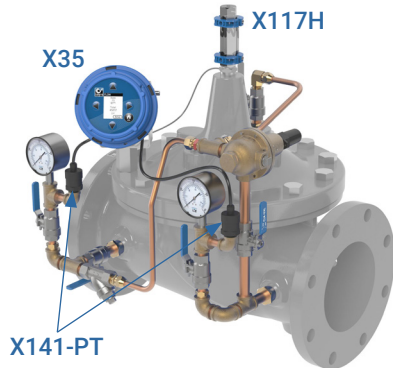
- 43 Series Combination Rate of Flow Controller and Solenoid Shut-Off Valves limit the maximum flow rate,
- End Connections: Threaded, Flanged and Grooved
- Sizes 1-1/2-inch through 36-inches
- Reduced port valve: 643 Series



## 49 Series Rate of Flow and Pressure Reducing Valve

- 49 Series Rate of Flow and Pressure Reducing Valves reduces a higher inlet pressure to a steady lower outlet pressure
- End Connections: Threaded, Flanged and Grooved
- Sizes 1-1/2-inch through 36-inches
- Reduced port valve: 649 Series

# Electronic Accessories



## Model XP2F

- The Cla-Val Model XP2F Data Acquisition and Metering Package is comprised of the X35 Data Module, the X117H Valve Position Transmitter, and two X141-PT Pressure Transmitter assemblies.
- Turns your Cla-Val valve into an all encompassing Instrumentation package that includes Upstream Pressure, Downstream Pressure, Valve Position Instantaneous Flow and Totalized Flow.
- When deployed across the system network the XP2F package allows for insight into pressure, leakage, flow and system distribution management.



## 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



## PC-22D Pump Control Panel

- Pre-programmed Valve Controller
- Suitable for all Booster Pump and Deep Well Applications
- Electronically Control Open/Closing Speed of Control Valve
- Indicator Lights Monitor System Status
- NEMA 4X Rated Enclosure
- Local visual indication of pump and control valve status
- Easy to adjust sequence timers



## 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
- Available in Stainless Steel
- Available configurations:
  - CRD-34 Pressure Reducing Electronic Pilot Control
  - CRL-34 Pressure Sustaining Electronic Pilot Control
  - CDHS-34 Rate-of-Flow Electronic Pilot Control

# Field Service and Maintenance



One of the best ways to ensure that your system operates at peak efficiency is to perform preventive maintenance on a regular basis. When it comes to Cla-Val automatic control valves, no one can do a better job at keeping your valves in tip-top shape than our own in-house factory trained field service technicians, ready to serve you.

## Capabilities and Services

- Emergency repairs
- Inspection, maintenance and cleaning of installed valves, without removal from the pipeline
- On-site valve refurbishment, including replacement of rubber goods and change-out of metal parts as needed
- Start-up services for new systems and valves
- Field retrofits of a full line of accessories and components to enhance or change valve function
- Safe work practices performed by confined space certified technician
- Fully equipped service vehicle, outfitted with crane for heavy lifting
- Complete inventory of replacement parts, direct from the factory
- Technical and Engineering Support

## Serving the following markets:

- Municipal and Rural Waterworks
- Industrial
- Irrigation
- HVAC
- Fire Protection
- Mining



### So. California

24100 Water Avenue  
Perris, CA 92570  
951.657.1718  
855.512.6965

### No. California

1275 Ventura Lane  
Turlock, CA 95380  
855.512.6965

### Arizona

2753 East Broadway  
Road, Suite 101-0455  
Mesa, AZ 85204  
949.554.7830

### Utah

810 W Utah Ave #9  
Payson, UT 84651  
949.205.6032  
855.512.6965

### Central

8707 Forney Road  
Dallas, TX 75227  
214-388-3493  
800-533-8181

### Eastern

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Bergenfield NJ 07621  
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## Central USA

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## Eastern USA

800-451-3030

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sales@cla-val.ca

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