

OCV FLUID
SOLUTIONS^{LLC}



matholding group

Growing forward; Together.



Innovative Engineering.
Sustainable Solutions.
Smart Water.



Innovative Engineering

The S300 state-of-the-art automatic control valves are designed to withstand the most demanding requirements of water system control. Our experts developed this technically advanced valve with capabilities - far beyond any other on the market.

The capability to regulate near zero flow, as standard on all sizes, eliminates the need for a special low flow device (throttling plug) or valve, while ensuring very low head loss in “fully open” position.

Advantages:

- Flange (face-to-face) dimensions suit ISO Standards.
- The internal floating shaft creates frictionless operation and also provides easy field maintenance.
- Resilient seal disc that is guided by a frictionless centering device.
- Body is made of Ductile Iron to withstand both high hydraulic and mechanical stresses.
- Standard single chamber valve provides smooth operation in sensitive regulation conditions. When required, conversion from a single to a double chambered valve is easily accomplished through the insertion of an innovative separation disc, without the need to remove the valve from the pipeline during the conversion.
- Supplied with a replaceable Stainless Steel seat to maintain excellent durability against erosion and ensure a drip-tight seal.
- During valve closure the rate slows, preventing potential damage from water hammer or surges.
- The 300 Series includes an optional valve position indicator, attached by a floating connection (ball & socket), resulting in smooth movement, with no wear or tear on the indicator seal.

30-PR Pressure Reducing Valve

The Series 300 Pressure Reducing Valve ('30-PR'), activated by the pressure of the pipeline, reduces high upstream pressure to a steady, predetermined and lower downstream pressure, regardless of fluctuations in upstream pressure flow rate. When the downstream pressure exceeds the set value, the valve will close drip-tight.



30-HyMod Flow Modulated Pressure Reducing Valve

The model 'HyMod' is an automatic pilot controlled, flow-modulated pressure reducing valve activated by the pressure of the pipeline. The valve reduces upstream pressure to a downstream pressure that increases or decreases simultaneously with the demand flow. The pressure into the zone is continually adjusted according to the zone's actual demand, thus compensating for the system loss. The pressure-flow profile can be adjusted. The HyMod will control from no flow, to maximal full open flow without any chattering or slamming.





CXAL 2W Altitude Pilot Controlled Valve

The Series 300 Altitude 2w Pilot Control Valve ('30-CXAL) is an automatic, pilot controlled, level control valve, activated by the pressure in the pipeline. The main valve is controlled by a highly sensitive pilot, located outside the tank. The pilot opens or closes the valve in response to the static pressure of the water.



OCV Fluid Solutions' Air Valves offer the most reliable solution to overcome all of the challenges that may occur on a pipeline, maximizing the longevity and efficiency of the water network. The Air Valve Series is designed for efficient discharge and intake of air in water pipelines, filtering systems, containers, and other places where confined air could impair the system's operation.

DAV-P-KA Air Release & Vacuum Break Valves

The Model DAV-P-KA has been designed for efficient discharge and intake of air in water transport systems, filtering systems, containers, and other places where confined air could impair the system's operation.



DAV MH High Capacity Combination and Kinetic Air Valves

The Model DAV-MH is designed for draining air at high flows at very low pressure, through filling-up of the pipeline. The valve will also allow a high flow rate of air into the pipe while it is draining, preventing the risk of excessive negative pressure that may cause the pipe to collapse. By enabling accumulated small quantities of air to drain from elevated locations during normal system operation, the DAV-MH maintains the effective cross-section of the pipe, preventing damage the hydraulic performance of the network.



DAV-M-SA Surge Arresting Device for DAV Valves

The Model DAV-M-SA is designed to allow air flow into the pipe when it is draining, preventing the risk of excessive negative pressure that may cause the pipe to collapse. The valve also enables small amounts of air to be drained, preventing damage to the network. The outflow of the air is restricted, creating a temporary air cushion to absorb kinetic energy. All the valve components are included within a sturdy, tamper-proof body.





Sustainable Solutions

The OCV Basic Control Valve 65 Globe and 65 Angle is a full port engineered valve. When equipped with a variety of pilots and accessories the valve performs a wide range of automatic fluid control, making it a specified valve in municipal water, fire protection, irrigation, industrial, petroleum and aviation fueling systems. The 65 is dependable and hardworking; with a simplicity of design that ensures minimal part wear for exceptional performance and longevity. Self-contained, the valve operates automatically off line pressure. The 65 consists of three major components: body, bonnet and diaphragm assembly. The Series 65 is American Made and compliant with AIS provisions.

Model 118-4 Surge Anticipation Valve

The Model 118-4 operates as a pressure relief valve by opening at a pressure above its set point. In addition, it provides extra protection against surges associated with power failure or other pump failure by opening in "anticipation" of the high pressure wave to follow. By being already open when the high pressure wave hits, any potential surge is harmlessly bypassed to atmosphere.

Model 108-2 Pressure Relief / Pressure Sustaining Valve

In many liquid piping systems, it is vital that line pressure is maintained within relatively narrow limits. Installed in the main flow line, the standard Model 108-2 acts as a backpressure or pressure sustaining valve. In this configuration, the valve maintains a constant upstream pressure regardless of fluctuating downstream demand. When used in a bypass line, the same model will function as a relief valve, protecting the system against potentially damaging surges. The Model 108-2HP is equipped with a special pilot to handle pressures up to 740 psi.



Model 118-4



Model 108-2



COMING
SOON!



Smart Water.

The ConDor is an automatic and autonomous, all-in-one solution that enables one standard and simple control valve to perform any control function, or combination of control functions, controlled locally or remotely.

It is an integrated system combining hardware (the controller), firmware (the software in the cpu), HMI software for mobile devices, and optional server services (SkyPlatform).

The ConDor unit helps customers all over the world to remotely control hydraulic valves and optimize their performance. Thanks to its advanced control algorithm, customers can monitor the performance of valves and change settings remotely.

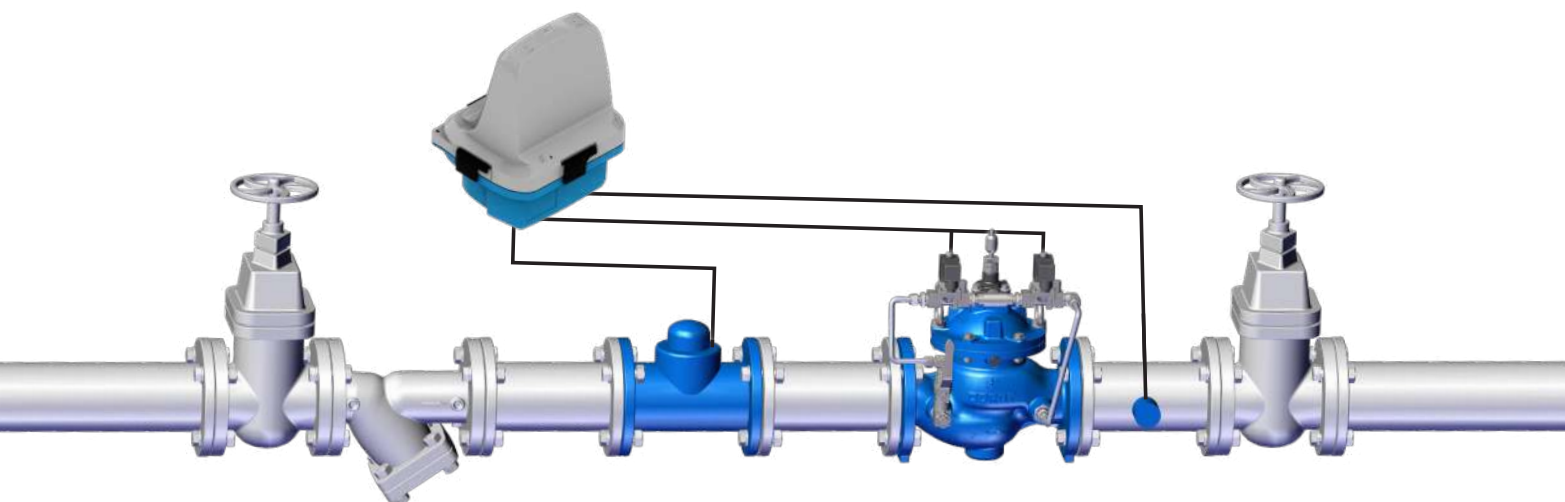
ConDor Benefits:

- Better control and visibility of the network
- OPEX reduction
- Extend asset life
- Leakage reduction
- Burst frequency reduction
- Energy savings

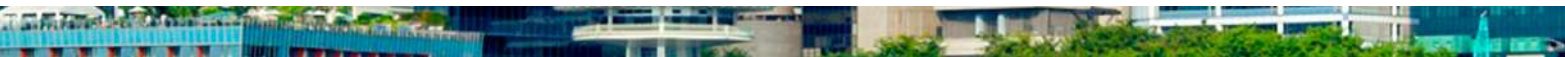
ConDor offers unlimited control functions, giving the ability to create and change any valve application and configure its functions freely.

The ConDor is the only real, flexible system that puts the power in the hands of the network owner, to perform their own concept of hydraulic control of each specific case, being completely independent of programmers or supplier services.

- The ConDor is unique in being the ONLY valve-controller that:
 - ◆ Can be configured to perform any control function or combination function
 - ◆ Enables the user to configure each and every regulating valve, a user defined dynamic control and telemetry-controlled applications
 - ◆ Ability to configure a valve application within minutes after a short '1 hour' training
- An unlimited freedom to create one's own control configuration (and upload it to a server for future use/ duplicate to other systems), OR:
- Download 'standard' configurations from the ConDor server and adjust it to custom specifications
 - ◆ Can be used for position control: Imitate the action of motorized valves using hydraulically-controlled valves, or controlling motorized valves



*This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained.





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OCV Fluid Solutions combines the engineering expertise of Dorot and OCV Control Valves resulting in a one-of-a-kind partner with a combined 140 years of experience in developing sustainable fluid control solutions. Under this umbrella, our portfolio includes the same reliable and excellent products you have become familiar with, in addition to new, innovative technologies. The synergies created worldwide between Dorot and OCV Control Valves enables OCV Fluid Solutions to respond efficiently to fluid & water industry challenges and provide tailor made solutions for various applications, ranging from basic systems to most complex systems in Water Works.



For further information please contact us:

OCV/Dorot North America Email: sales@controlvalves.com | Phone: +1 918-627-1942 | Toll-Free 1-888-OCV-VALV (628-8258) | www.controlvalves.com
Dorot International Email: info@dorot.com | www.dorot.com

