



 A.R.I.  DOROT  OCV

Superior Waterworks Solutions



Innovative Engineering.
Sustainable Solutions.
Smart Water.

Innovative Engineering



DOROT Series 300

This product line of automatic control valves is designed to withstand the most demanding requirements of water system control. Standard on all sizes, the Dorot Series 300 has the capability to regulate near zero flow, eliminating the need for special low-flow devices and/or valves. These expertly developed and technologically advanced control valves have capabilities far beyond any other on the market.

PRESSURE REDUCING  PRESSURE SUSTAINING  ELECTRONIC & REMOTE CONTROL FUNCTIONS
RATE OF FLOW REGULATING  WATER LEVEL CONTROL & MUCH MORE

Features & Benefits:

- Flange (face-to-face) dimensions suit ISO Standards.
- The internal floating shaft creates frictionless operation and also provides easy field maintenance.
- Resilient seal disc guided by a frictionless centering device.
- Body is made of Ductile Iron to withstand high hydraulic and mechanical stresses.
- Standard single chamber valve provides smooth operation in sensitive regulation conditions. 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.
- The replaceable Stainless Steel seat provides durability against erosion and ensures a drip-tight seal.
- During valve closure the rate slows, preventing potential damage from water hammer or surges.
- The Dorot Series 300 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.

Dorot 30-AL 3W Pilot Controlled Altitude Valve

This Pilot Controlled Altitude Valve is an automatic, level control, pilot-controlled valve, activated by the pipeline pressure. 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. The pilot allows for differential adjustments between the maximum and minimum level.



Dorot 30-EC Electronic Control Valve

This 30-EC is an automatic, solenoid control valve, activated by the pipeline pressure. The valve is controlled via the versatile Dorot ConDor controller, which enables all control functions, or combination of functions, to be performed with extreme accuracy. Can be controlled by any pulse-activating controller.

Dorot 30-FR Flow Control Valve

This Flow Control Valve is activated by the pipeline pressure. The valve limits the flow rate in the network to a preset value, regardless of upstream pressure variations. The valve fully opens when the flow rate drops below the set point.

Dorot 30-HyMod Flow Modulated Pressure Reducing Valve

This 30-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.

Dorot 30-PR Pressure Reducing Valve

This valve, 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.

Dorot 30-PS Pressure Sustaining Valve

This Pressure Sustaining Valve is activated by the pipeline pressure. The valve maintains a steady, predetermined pressure in the network, upstream of its location. Should the upstream pressure exceed the required set-point, the valve opens, increasing network flow, thus reducing its upstream pressure. If upstream pressure falls below the required value, the valve closes drip-tight.



Sustainable Solutions



OCV Series 65



This line of Globe and Angle control valves, when equipped with a variety of pilots and accessories, performs a wide range of automatic fluid control. The OCV Series 65 is dependable and hardworking; with a simplicity of design that ensures minimal part wear for exceptional performance and longevity.

Features & Benefits:

- Operates automatically off line pressure.
- Heavy-duty, nylon-reinforced diaphragm isolates top chamber operating pressure from bottom chamber line pressure.
- Rectangular-shaped, soft seat seal provides drip-tight Class VI closure.
- Ductile iron and steel valves are epoxy coated inside and out, for maximum corrosion protection.
- Throttling seat retainer for flow and pressure stability.
- Easily maintained without removal from the line; Alignment pins ensure proper reassembly after maintenance.
- Diaphragm replaced without removing internal stem assembly; Replaceable seat ring.
- Center-tapped bonnet facilitates installation of position indicator or valve-actuated switches.

OCV 118-4 Surge Anticipation Valve

This 118-4 operates as a pressure relief valve by opening at a pressure above its set point. 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 into the atmosphere.

OCV 108-2 Pressure Relief / Pressure Sustaining Valve

Installed in the main flow line, the standard 108-2 acts as a backpressure or pressure sustaining valve. It maintains a constant upstream pressure regardless of fluctuating downstream demand. When used in a bypass line, it will also function as a relief valve, protecting the system against potentially damaging surges. The OCV Model 108-2HP is equipped with a special pilot to handle pressures up to 740 psi.

OCV 127-3 Pressure Reducing Valve

This pilot-operated Pressure Reducing Valve reduces a higher upstream pressure to a constant, lower downstream pressure, regardless of fluctuations in supply or demand. The spring-loaded pilot, sensing downstream pressure, responds to pressure changes and causes the main valve to respond in kind.



Smart Water

Dorot ConDor

The Dorot ConDor is an automatic and autonomous system enabling hydraulic control valves to perform any function or combination of functions, whether constant or dynamically modulating, via local and remote control. It is an integrated system combining hardware (the controller), firmware (the software), HMI software for mobile devices, and Cloud services.

The Dorot ConDor enables customers all over the world to remotely control hydraulic valves and optimize their performance. With its advanced control algorithm, customers can monitor the performance of valves and configure settings remotely.



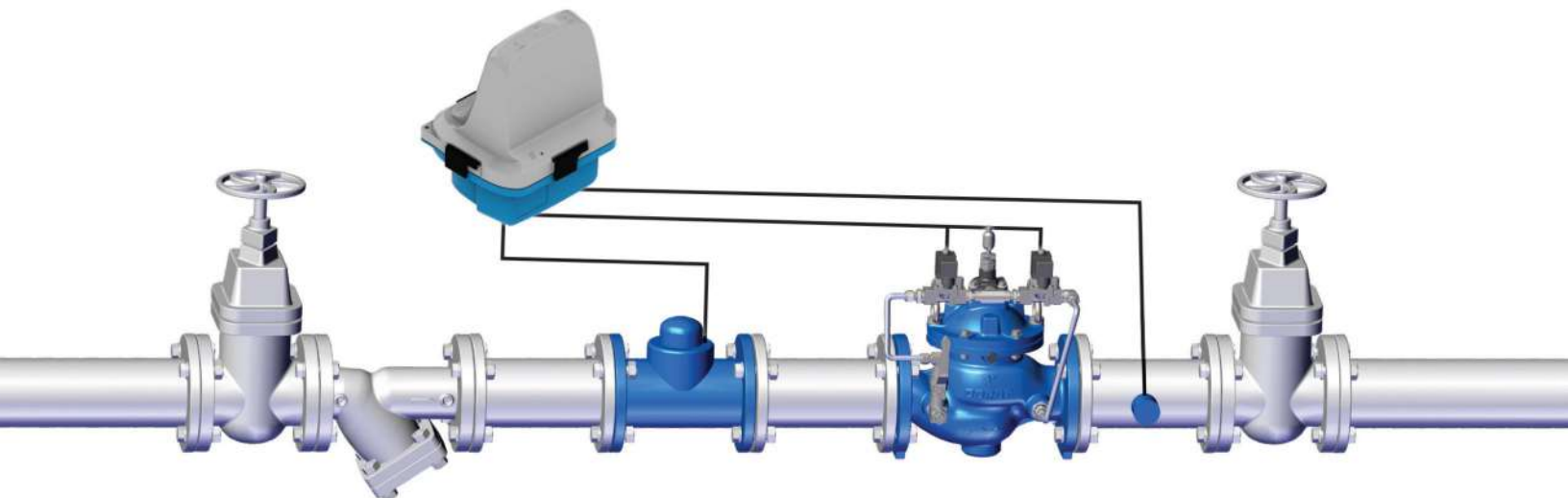
Features & Benefits:

- Remote & Local Control
- Cellular & Bluetooth Communication
- Several Active Hydraulic Functions Configured Simultaneously
- Proprietary Cloud-Based Command & Control System – SKYplatform (mini SCADA)
- MODBUS & OPC Protocol Support – for seamless SCADA system integration

The Dorot ConDor is the most advanced hydraulic valve controller that:

- Can be configured to perform any control function or combination of functions.
- Enables the user to configure each and every regulating valve, user defined dynamic controls and telemetry-controlled applications.
- Allows the owner to configure a valve application within minutes after a short, one-hour training session.
- Provides unlimited freedom to create a customized control configuration and upload it to a server for future use (duplicate to other systems).

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





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Aquestia, the result of merging OCV Control Valves, A.R.I. Optimal Flow Solutions and Dorot Control Valves, presents a combined 180 years of experience developing sustainable fluid control solutions. Blending these three successful brands into one entity provides a vast array of product solutions, ensures a high level of global customer service, and offers unparalleled expertise and innovative technologies.



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