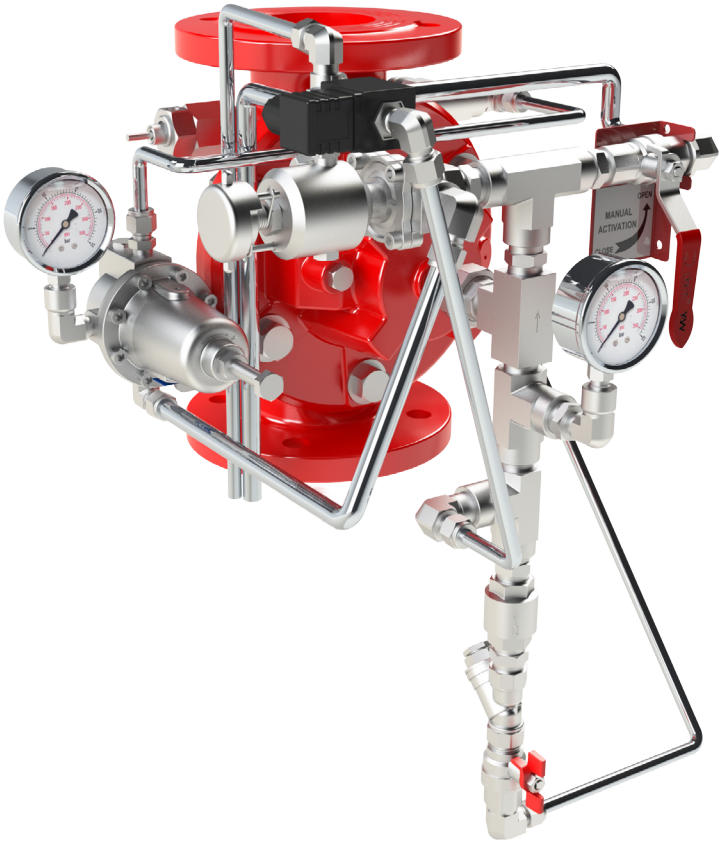
Advanced Hydraulic Solutions for Optimal Management of Fire Protection Systems

OCV

FIRE PROTECTION VALVES



Aquestia USA

Directing the Flow

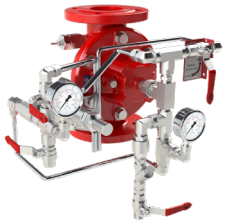
DELUGE

OCV DE\HM

Hydraulically Actuated
Deluge Valve

OCV DE\HRV

Hydraulically Actuated,
Anti-Columning
Deluge Valve



OCV DE\PORV

Pneumatically Actuated
Deluge Valve

OCV DE\RC

Electrically Actuated,
Remote Reset
Deluge Valve
3/2 Solenoid

OCV DE\RCL

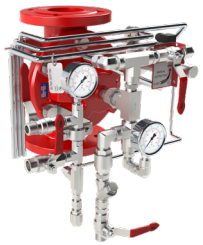
Electrically Actuated,
Manual Reset
Deluge Valve

OCV DE\EL\HRV

Electrically or
Hydraulically Actuated,
Anti-Columning
Deluge Valve

OCV DE\EL\PORV

Electrically or
Pneumatically Actuated
Deluge Valve

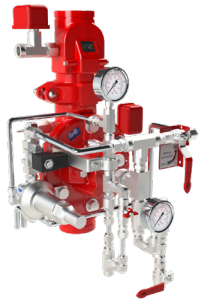


OCV

PRE-ACTION

OCV DE\EL\PORV-DN

Double-Interlock
Pre-Action,
Electro-Pneumatic
Release System



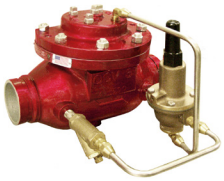
OCV DE\EL\PORV\PR-DN

Double-Interlock
Pre-Action,
Pressure Reducing,
Electro-Pneumatic
Release System

PRESSURE REDUCING & PRESSURE RELIEF

OCV 129FC

Pressure Reducing Valve

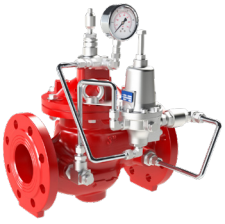


OCV PR\UL

Pressure Reducing Valve
(Model 30)

OCV PS\UL

Pressure Relief Valve
(Model 30)



OCV 108FC (Globe)/ 108FCA (Angle)

Fire Pump Relief Valve

OCV 108FPS

Pump Suction Control Valve

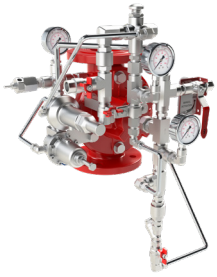
DELUGE PRESSURE REDUCING

OCV DE\HRV\PR

Hydraulically Actuated,
Anti-Columning,
Pressure Reducing Deluge Valve

OCV DE\HRV\PR-MR

Hydraulically Actuated
Anti-Columning,
Pressure Reducing,
Manual Reset Deluge Valve

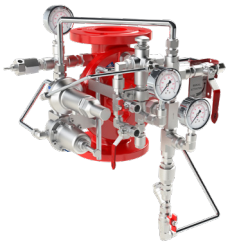


OCV DE\PORV\PR

Pneumatically Actuated,
Pressure Reducing
Deluge Valve

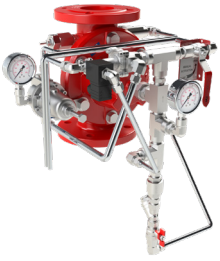
OCV DE\PORV\PR-MR

Pneumatically Actuated,
Pressure Reducing,
Manual Reset Deluge Valve



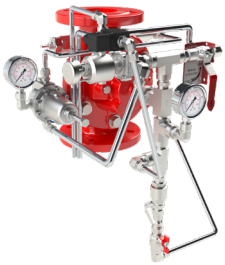
OCV DE\RC\PR

Electrically Actuated,
Pressure Reducing,
Remote Reset Deluge Valve
3/2 Solenoid



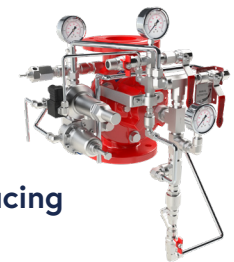
OCV DE\RCL\PR

Electrically Actuated,
Pressure Reducing,
Manual Reset Deluge Valve
3/2 Solenoid



OCV DE\EL\HRV\PR

Electrically or
Hydraulically Actuated,
Anti-Columning, Pressure Reducing
Deluge Valve

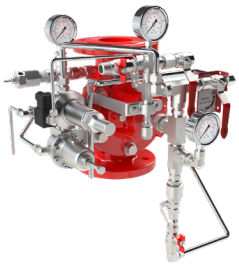


OCV DE\EL\HRV\PR-MR

Electrically or
Hydraulically Actuated,
Anti-Columning,
Pressure Reducing,
Manual Reset Deluge Valve

DE\EL\PORV\PR

Electrically or
Pneumatically Actuated,
Pressure Reducing
Deluge Valve



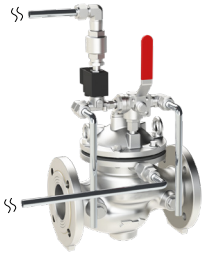
OCV DE\EL\PORV\PR-MR

Electrically or
Pneumatically Actuated,
Pressure Reducing,
Manual Reset Deluge Valve

FOAM

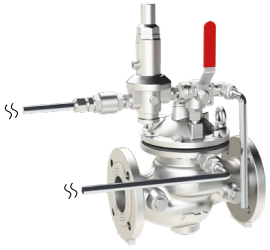
OCV ZP\EL

Foam Concentrate,
Electrically Actuated
Control Valve



OCV ZP\HM

Foam Concentrate,
Hydraulic Pilot Actuated
Control Valve



OCV ZP\H

Foam Concentrate,
Hydraulically Actuated
Control Valve

OCV

Aquestia USA

Directing the Flow

Advanced hydraulic solutions for optimal management of liquid conveyance systems. Aquestia is a world leader in providing optimal solutions for surge protection, water loss reduction and pressure management, by integrating uniquely developed products with innovatively designed software.

Aquestia brings together three strong brands - A.R.I., Dorot and OCV - combining decades of experience, a wealth of knowledge and expertise, and a wide range of solutions and services. Aquestia is where liquid flows - Fire Protection, Aviation Fueling, Oil and Gas, Waterworks & Wastewater Systems, Irrigation, Mining, Ballast Water & Desalination, and Commercial Plumbing.

Aquestia - high-quality, reliable products and committed service - for your peace of mind.

FIRE PROTECTION VALVES

Hydraulically operated, diaphragm actuated and manufactured in sizes 1/2" to 40" in both globe and angle designs. UL Listed designs available 1/2" to 12".

Reliable and comprehensive solutions for the most demanding fire protection applications such as tunnels, storage, hangars & terminals, high-rise buildings, and more.

Utilized in hazardous offshore and onshore locations, and/or corrosive environments such as refineries, offshore platforms, power generation plants, etc., as well as applications in extreme climates.

Readily adaptable to perform numerous functions including pneumatic, electric and hydraulic deluge, pressure control, pressure relief, thermal expansion relief, automatic level control, and more. Custom solutions can be designed and engineered for more challenging applications.

Manufactured in a variety of materials such as Nickel-Aluminum-Bronze, Stainless Steel, Super Duplex, Bronze, Cast Steel and Ductile Iron. Valves can be specially finished with a seawater coating and/or a high built, fusion bonded epoxy with a protective topcoat for those highly corrosive environments.

OCV

Aquestia USA

A.R.I. DOROT OCV

Superior Waterworks Solutions

Innovative Engineering.

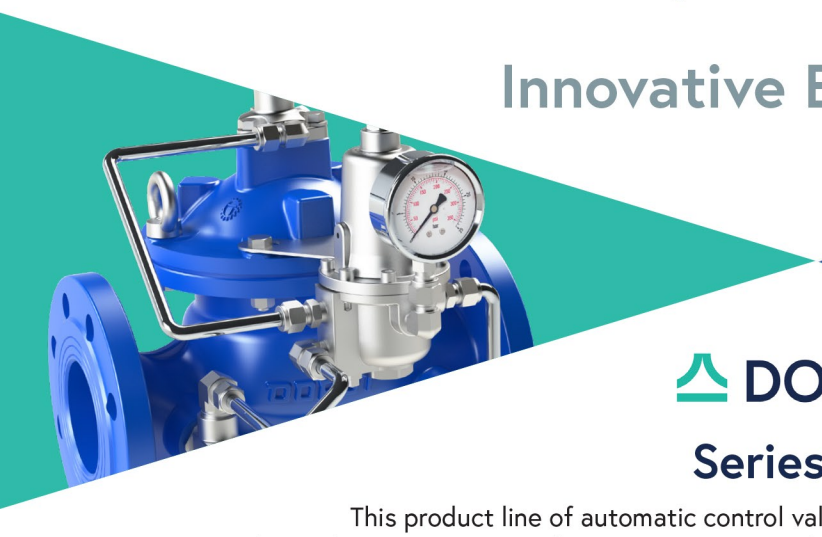
Sustainable Solutions.

Smart Water.

Aquestia USA

Directing the Flow

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.

Aquestia USA

Directing the Flow

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:

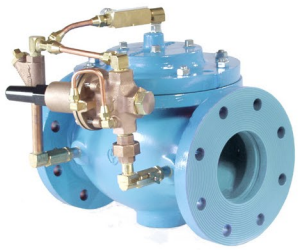
- Operates automatically off line pressure.
- Heavy-duty, nylon-reinforced diaphragm isolates top chamber operating pressure from bottom chamber line pressure.
- Rectangular-shaped, soft seat seal provides drip-tight Class VI closure.
- Ductile iron and steel valves are epoxy coated inside and out, for 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.

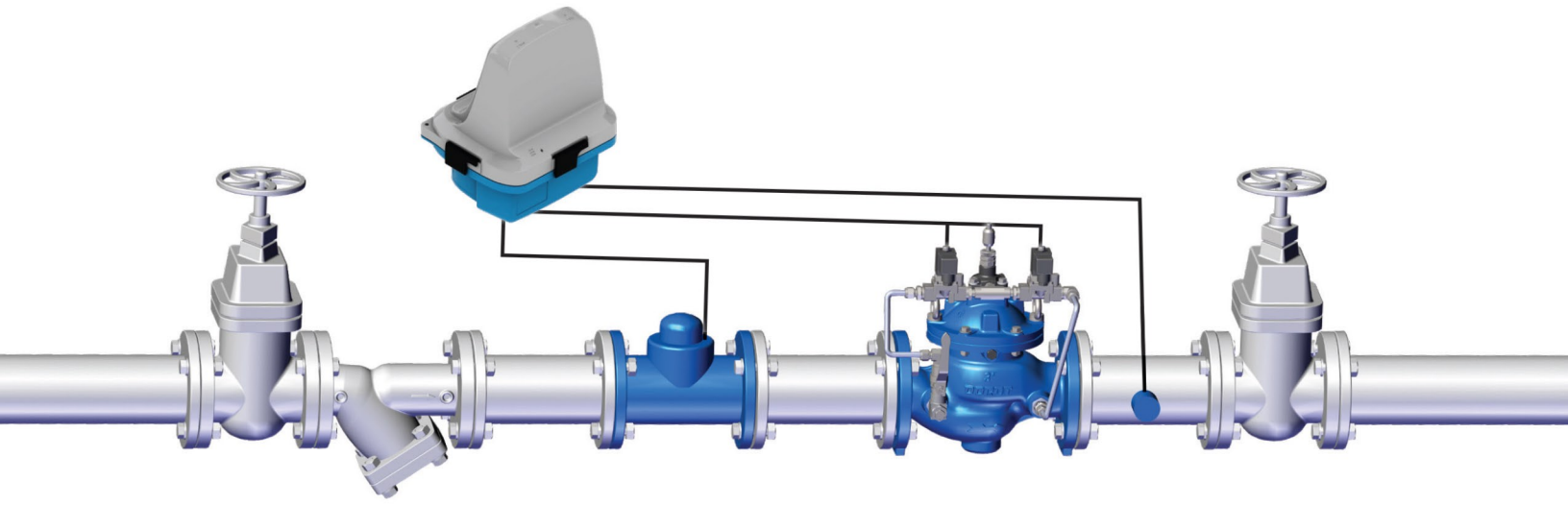
Features & Benefits:

- 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.



Aquestia

A.R.I. DOROT OCV

Superior Waterworks Solutions

Innovative Engineering.
Sustainable Solutions.
Smart Water.

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.


OCV
Control Valves LLC
mining & industrial
Global performance. Personal touch.

mining & industrial

OCV Control Valves LLC

QUALITY SYSTEM REGISTERED TO ISO 9001

FM APPROVED

Certified to NSF/ANSI 372

OCV Control Valves was founded more than 60 years ago with a vision and commitment to quality and reliability. From modest beginnings, the company has grown to be a global leader just half a century later. In fact, OCV valves can be found in some capacity in nearly every country around the world. From fire protection systems in Malaysia, to aircraft fueling systems in Africa, and oil refineries in Russia to water supply systems in the USA and Canada along with irrigation systems in Europe, South America and the Middle East, our valves provide superior fluid handling solutions.

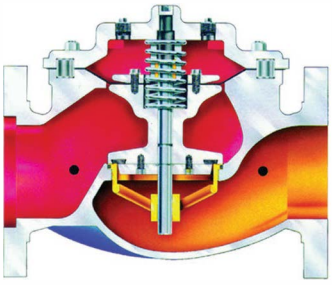
The foundation upon which the company was built allows our team of professionals to not only provide the service required to be a worldwide supplier, but, more importantly, the opportunity to afford the personal touch necessary to be each of our customers' best partner. Simply stated, we take pride in all that we do.

Committed to the work they do, our employees average over 15 years of service. This wealth of knowledge allows us to provide quality engineering, expert support, exacting control and the know-how to create valves known for their long life.

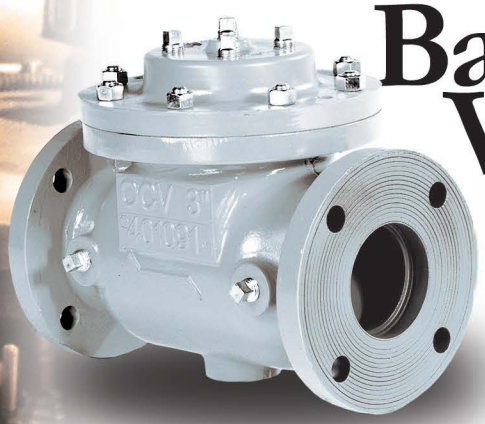
Being ISO 9001 certified means we are committed to a quality assurance program. Our policy is to supply each customer with consistent quality products and ensure that the process is right every time. Our valves meet and exceed industry standards around the world.

All valves are not created equal. OCV Control Valves proves that day in and day out. We stand behind our valves and are ready to serve your needs.

OCV control valves are hydraulically operated, diaphragm actuated globe or angle valves that operate automatically from either line pressure or an independent hydraulic source. Internal moving parts are minimal and all valves can be adjusted and serviced without removal from the line.



Basic Valve



Series 65 Basic Valve

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, mining and aviation fueling systems.

- Dependable and hard working, with a simplicity of design that ensures minimal part wear for exceptional performance and longevity.
- Self-contained, the valve operates automatically off of line pressure.
- The 65 consists of three major components: body, bonnet, diaphragm assembly.

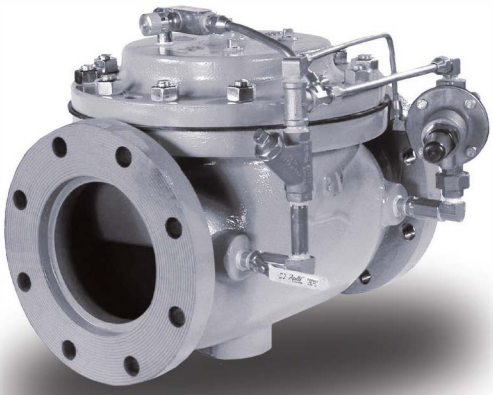
Power Actuated

Series 66 Power Actuated

The Basic Control Valve 66 Globe and 66 Angle is a full port engineered valve equipped with two diaphragm chambers, sealed from each other by the diaphragm, and isolated from the valve's main flow passage by an intermediate plate. By pressurizing one control chamber while simultaneously venting the other, the valve is positively powered to both open and close.

A large majority of OCV valves have a single diaphragm chamber and operate off of line pressure; more specifically, off the pressure differential between the inlet and the outlet ports of the valve. There are, however, conditions that do not lend themselves to such an operation. For example, adequate differential to properly actuate the valve may not exist, the liquid being handled may be extremely dirty or otherwise unsuitable, or design of the system may, for some reason, make it preferable to use an outside hydraulic source. Under such conditions, the OCV Power Actuated Valve 66/66A provides an excellent solution.

Pressure Relief



Series 108 Pressure Relief

In many liquid piping systems, it is vital that line pressure is maintained within relatively narrow limits. This is the function of the 108 Pressure Relief / Back Pressure Series of the OCV control valves. Installed in the main flow line, the standard Model 108-2 acts as a back-pressure 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.

Series Features:

- Relief: Maintains a constant inlet pressure by relieving excess high pressure.
- Sustaining: Prevents pressure from dropping below a minimum.
- Upstream pressure is adjustable with a complete range of control springs.
- Upstream pressure is accurate over a wide range of flow.
- Quick opening with controlled closing.

Surge Anticipation

Series 118 Surge Anticipation

The OCV Series118/108SA-3 surge anticipation valves are designed to be installed in a bypass line and provide protection agains damaging surges that can occur in pumping systems when a pump is suddenly stopped. Unlike conventional relief valves, which open only when a high pressure wave hits, surge anticipation valves sense the precursor of the high pressure wave (pump power failure or low pressure wave) and open in anticipation of the returning high pressure wave that follows. By opening, the valve prevents the buildup of pressure before it occurs.

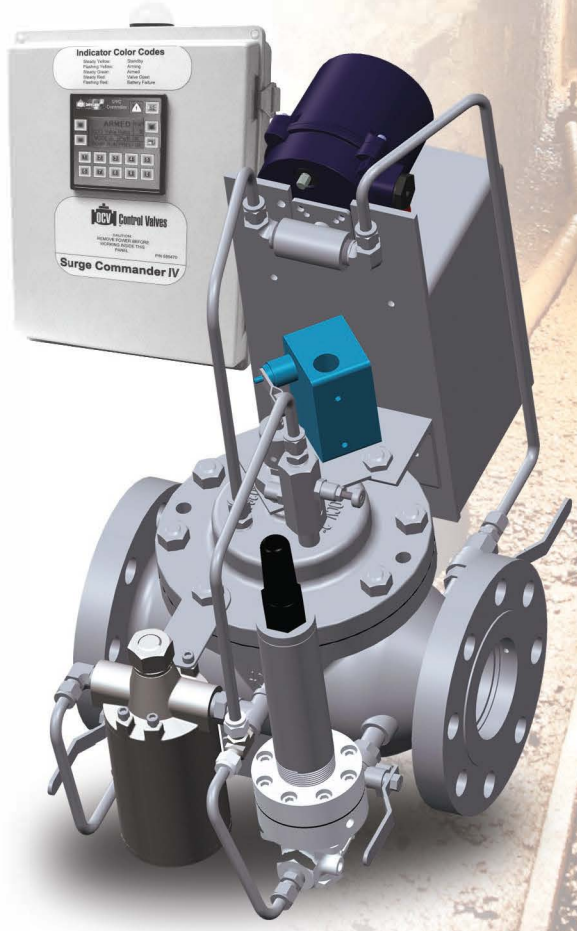
Series Features:

Electro-hydraulic Series 118

- Electrical power connection to pumping system for opening on loss of power or on a pressure switch low-pressure signal.
- Valve closes after (adjustable) predetermined time on power failure or low-pressure opening.
- Hydraulic, pilot operated, high-pressure relief opening.
- Uses Surge Commander electronics package (Model 118-4).

Fully Hydraulic Model 108SA-3

- No electrical requirements.
- Low-pressure opening pilot.
- High-pressure relief pilot.

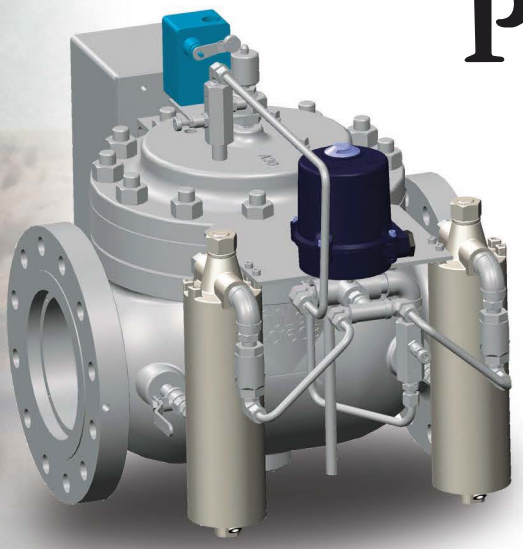


OCV Control Valves

(888)628.8258

mining & industrial

Pump Control



Series 125 Pump Control

The OCV Series 125 Pump Control Valves are designed to effectively eliminate the surges associated with the starting and stopping of the pump. Electrically interfaced with the pump motor, the valve opens and closes at an adjustable speed, providing a smooth, predictable transition of pump discharge pressure and volume into the system.

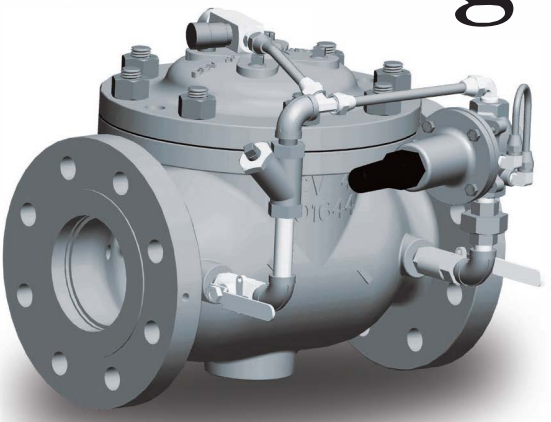
Series Features:
- Valve opening speed is adjustable to pump and system requirements for smooth increase in pressure.
- Valve closing speed is adjustable, gradually decreasing pressure to the system as the valve closes.
- Valve is interlocked with the pump motor to perform unified pump and valve operation.
- Built-in reverse flow check feature.
- Valve automatically shuts off pump motor on loss of pump discharge pressure (shaft lock-up).
- Two simple field adjustments: opening speed and closing speed.

Pressure Reducing

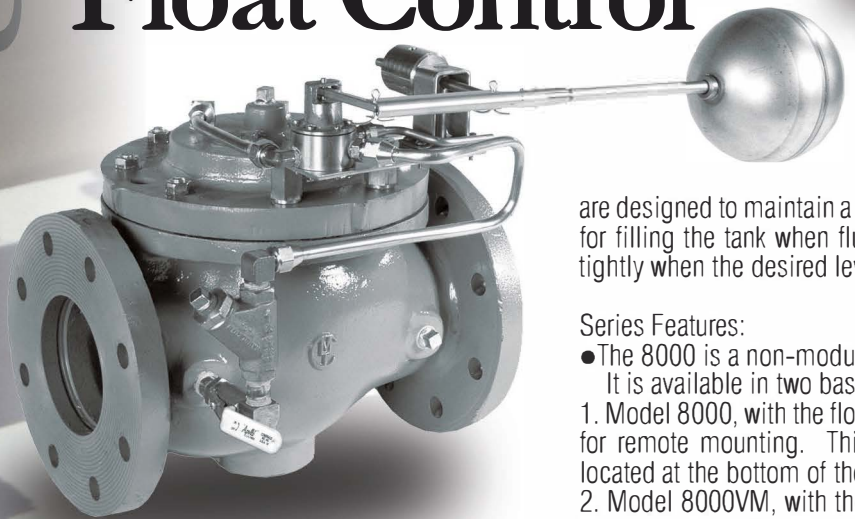
Series 127 Pressure Reducing

The OCV Pressure Reducing Valve is used in many applications worldwide. The primary function of the 127 series is to reduce a greater upstream pressure to a lesser, more manageable downstream pressure, operating without regard to either upstream supply or downstream demand.

Series Features:
- Reduces higher inlet pressure to a constant lower outlet pressure.
- Outlet pressure is accurate over wide range of flow.
- Pilot-operated main valve is not subject to pressure fall-off characteristic of direct-acting PRV's.
- Outlet pressure is adjustable over complete range of control spring.



Float Control



Series 8000 Float Control

The OCV Series 8000 Float Control valves are designed to maintain a desired level in a tank or reservoir by opening for filling the tank when fluid is below the high level point and closing tightly when the desired level is reached.

Series Features:
- The 8000 is a non-modulating valve; either full open or full closed. It is available in two basic configurations:

1. Model 8000, with the float pilot provided separate from the main valve for remote mounting. This configuration is used when the fill line is located at the bottom of the tank.
2. Model 8000VM, with the float pilot mounted on the main valve. This configuration is typically used when the fill line is located at the top of the tank.

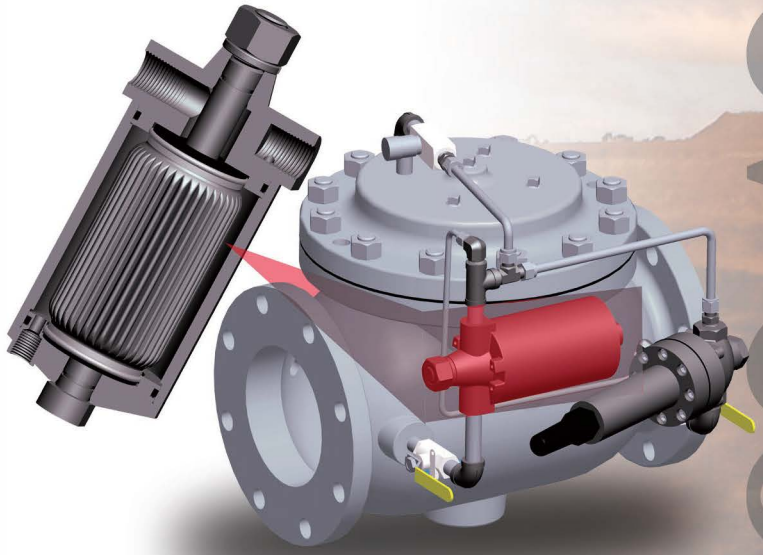
- All Series 8000 valves include an OCV Basic 65 Valve assembly and a Model 814 three-way rotary float pilot. For faster operation, valves 8" and larger also include a Model 3600 three-way auxiliary pilot.

Optional Accessories

Model 170 Filter & 170L High Pressure Filter

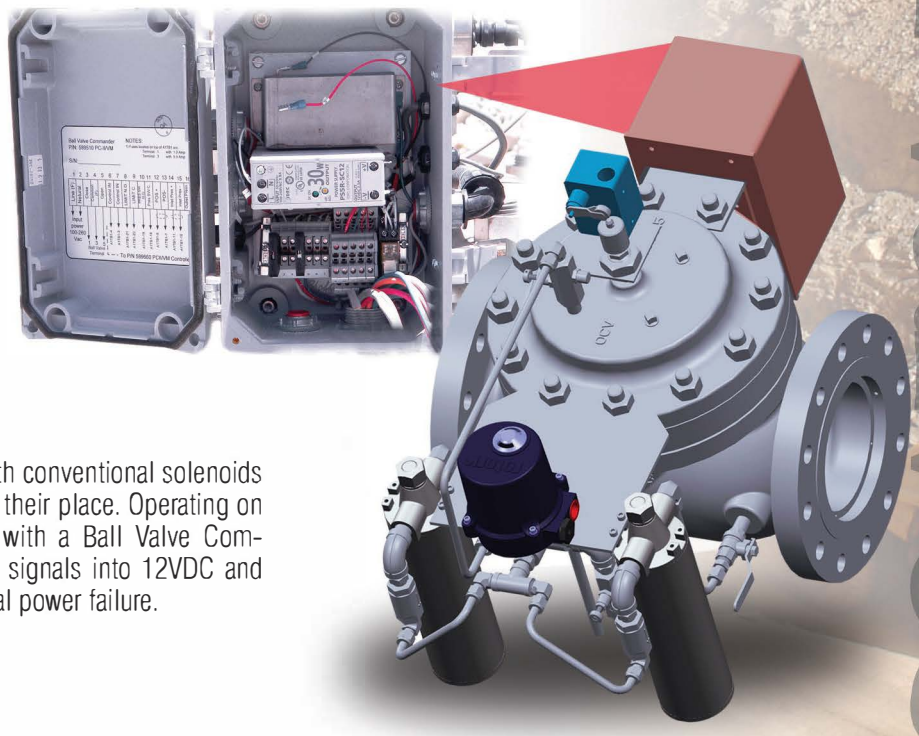
The Models 170 and 170L Filters install in the inlet piping of the control valve pilot system and protect the pilot system from solid contaminants in the line fluid. The high capacity, pleated element makes the 170 and 170L ideal for those applications where the fluid being controlled has a relatively high percentage of suspended solids. Its robust design and all stainless steel construction allows for operation at high pressures and in corrosive environments.

The longer 170L filter has twice the capacity of the standard 170, allowing for longer times between cleanings



Model 2400 High Pressure Relief Pilot

The Model 2400 is a two-way, normally closed pilot that senses pressure under its diaphragm and balances it against an adjustable spring load. An increase in pressure above the spring set point tends to make the pilot open. The Model 2400 is designed for high pressure applications.



Motorized Ball Valves

Certain solutions are incompatible with conventional solenoids and motorized ball valves are used in their place. Operating on 12VDC, they are typically provided with a Ball Valve Commander that converts the AC control signals into 12VDC and ensures ball valve closure on electrical power failure.

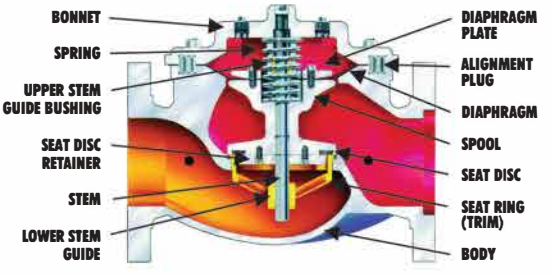
mining & industrial

Specifications

VALVE BODY & BONNET	DUCTILE IRON		CAST STEEL		STAINLESS STEEL	
Material Specifications	ASTM A536/65-45-12 (epoxy coated)		ASTM A216/WCB (epoxy coated)		ASTM A351/CF8M	
END CONNECTIONS						
Flange Standard (also available in metric)	ANSI B16.42		ANSI B16.5		ANSI B16.5	
Flange Class	150#	300#	150#	300#	150#	300#
Flange Face	Flat	Raised	Raised	Raised	Raised	Raised
Maximum Working Pressure	250 psi	640 psi	285 psi	740 psi	285 psi	740 psi
Screwed Working Pressure:	ANSI B1.20.1 640 psi		Grooved End Working Pressure:	300 psi		
INTERNALS						
Stem	STAINLESS STEEL					
Spring	STAINLESS STEEL					
Spool	DUCTILE IRON (epoxy coated) / OPTIONAL - STAINLESS STEEL				STAINLESS STEEL	
Seat Disc Retainer	DUCTILE IRON (epoxy coated) (10" & LARGER) STAINLESS STEEL (8" & SMALLER / OPTIONAL - ALL SIZES)				STAINLESS STEEL	
Diaphragm Plate	DUCTILE IRON (epoxy coated) / OPTIONAL - STAINLESS STEEL				STAINLESS STEEL	
Seat Ring (Trim)	LOW-LEAD BRONZE OR STAINLESS STEEL				STN. STL. ASTM A351/CF8M	
Upper Stem Bushing	BRONZE OR TEFLON®				TEFLON®	
Lower Stem Bushing	NOT APPLICABLE FOR LOW-LEAD BRONZE SEAT RINGS / TEFLON® FOR STN.STL. SEAT RINGS					
ELASTOMER PARTS (Rubber)						
Diaphragm/Seat Disc/O-Rings	EPDM / OPTIONAL - VITON®					
Operating Temperature (Consult factory when temperatures approach low or high temperature allowance.)	32°F to 230°F					
COATINGS	EPOXY COATING					
ELECTRICAL SOLENOIDS						
Bodies	BRASS / OPTIONAL - STAINLESS STEEL					
Enclosures	WATER TIGHT, NEMA 1, 3, 4, & 4X					
Power	AC, 60HZ - 24, 120, 240, 480 VOLTS		AC, 50HZ - In 110 VOLT MULTIPLES		DC, 6, 12, 24, 240 VOLTS	
Operation	ENERGIZE TO OPEN (NORMALLY CLOSED)		DE-ENERGIZE TO OPEN (NORMALLY OPEN)			

CONTROL PILOTS		
Bodies	LOW-LEAD BRONZE	STN. STL. / ASTM A351/CF8M
Internal	STAINLESS STEEL	STAINLESS STEEL
CONTROL CIRCUITS		
Tubing	COPPER	STAINLESS STEEL
Fittings	LOW-LEAD BRASS	STAINLESS STEEL

TEFLON® is a registered trademark of DuPont.



Special Service Valve Materials: Duplex Stainless Steel, Super Duplex Stainless Steel (Contact factory)

Globe Flanged Sizes

1.25"	1.5"	2"	2.5"	3"	4"	6"	8"	10"	12"	14"	16"	18"*	20"*	24"
32mm	40mm	50mm	65mm	80mm	100mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm*	500mm*	600mm

*CONSULT FACTORY

Angle Flanged Sizes

1.25"	1.5"	2"	2.5"	3"	4"	6"	8"	10"	12"	16"
32mm	40mm	50mm	65mm	80mm	100mm	150mm	200mm	250mm	300mm	400mm

Globe/Angle Screwed Sizes

1.25"	1.5"	2"	2.5"	3"
32mm	40mm	50mm	65mm	80mm

Globe/Angle Grooved Sizes

1.5"	2"	2.5"	3"	4"	6"*
32mm	50mm	65mm	80mm	100mm	150mm*

*GLOBE ONLY

Dimensions

U.S. DIMENSIONS - INCHES

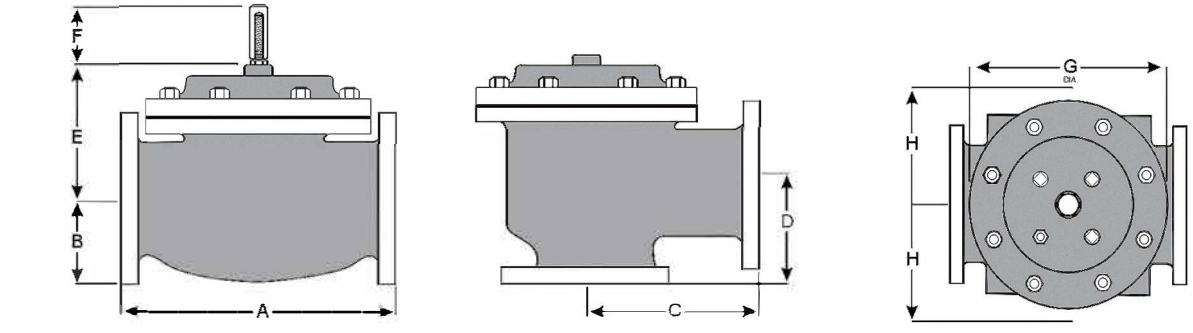
DIM	END CONN.	1 1/4-1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	24
A	SCREWED	8 3/4	9 7/8	10 1/2	13	--	--	--	--	--	--	--	--
	GROOVED	8 3/4	9 7/8	10 1/2	13	15 1/4	20	--	--	--	--	--	--
	150# FLGD	8 1/2	9 3/8	10 1/2	12	15	17 3/4	25 3/8	29 3/4	34	39	40 3/8	62
	300# FLGD	8 3/4	9 7/8	11 1/8	12 3/4	15 5/8	18 5/8	26 3/8	31 1/8	35 1/2	40 1/2	42	63 3/4
B	SCREWED	1 7/16	1 11/16	1 7/8	2 1/4	--	--	--	--	--	--	--	--
	GROOVED	1*	1 3/16	1 7/16	1 3/4	2 1/4	3 5/16	--	--	--	--	--	--
	150# FLGD	2 5/16-2 1/2	3	3 1/2	3 3/4	4 1/2	5 1/2	6 3/4	8	9 1/2	10 5/8	11 3/4	16
	300# FLGD	2 5/8-3 1/16	3 1/4	3 3/4	4 1/8	5	6 1/4	7 1/2	8 3/4	10 1/4	11 1/2	12 3/4	18
C ANGLE	SCREWED	4 3/8	4 3/4	6	6 1/2	--	--	--	--	--	--	--	--
	GROOVED	4 3/8*	4 3/4	6	6 1/2	7 5/8	--	--	--	--	--	--	--
	150# FLGD	4 1/4	4 3/4	6	6	7 1/2	10	12 11/16	14 7/8	17	--	20 13/16	--
	300# FLGD	4 3/8	5	6 3/8	6 3/8	7 13/16	10 1/2	13 3/16	15 9/16	17 3/4	--	21 5/8	--
D ANGLE	SCREWED	3 1/8	3 7/8	4	4 1/2	--	--	--	--	--	--	--	--
	GROOVED	3 1/8*	3 7/8	4	4 1/2	5 5/8	--	--	--	--	--	--	--
	150# FLGD	3	3 7/8	4	4	5 1/2	6	8	11 3/8	11	--	15 11/16	--
	300# FLGD	3 1/8	4 1/8	4 3/8	4 3/8	5 13/16	6 1/2	8 1/2	12 1/16	11 3/4	--	16 1/2	--
E	ALL	6	6	7	6 1/2	8	10	11 7/8	15 3/8	17	18	19	27
F	ALL	3 7/8	3 7/8	3 7/8	3 7/8	3 7/8	3 7/8	6 3/8	6 3/8	6 3/8	6 3/8	6 3/8	8
G	ALL	6	6 3/4	7 11/16	8 3/4	11 3/4	14	21	24 1/2	28	31 1/4	34 1/2	52
H	ALL	10	11	11	11	12	13	14	17	18	20	20	28 1/2

*GROOVED END NOT AVAILABLE IN 1 1/4"

METRIC DIMENSIONS - MM

DIM	END CONN.	DN32-DN40	DN50	DN65	DN80	DN100	DN150	DN200	DN250	DN300	DN350	DN400	DN600
A	SCREWED	222	251	267	330	--	--	--	--	--	--	--	--
	GROOVED	222	251	267	330	387	508	--	--	--	--	--	--
	150# FLGD	216	238	267	305	381	451	645	756	864	991	1026	1575
	300# FLGD	222	251	283	324	397	473	670	791	902	1029	1067	1619
B	SCREWED	37	43	48	57	--	--	--	--	--	--	--	--
	GROOVED	25*	30	37	44	57	84	--	--	--	--	--	--
	150# FLGD	59-64	76	89	95	114	140	171	203	241	270	298	406
	300# FLGD	67-78	83	95	105	127	159	191	222	260	292	324	457
C ANGLE	SCREWED	111	121	152	165	--	--	--	--	--	--	--	--
	GROOVED	111*	121	152	165	194	--	--	--	--	--	--	--
	150# FLGD	108	121	152	152	191	254	322	378	432	--	529	--
	300# FLGD	111	127	162	162	198	267	335	395	451	--	549	--
D ANGLE	SCREWED	79	98	102	114	--	--	--	--	--	--	--	--
	GROOVED	79*	98	102	114	143	--	--	--	--	--	--	--
	150# FLGD	76	98	102	102	140	152	203	289	279	--	398	--
	300# FLGD	79	105	111	111	148	165	216	306	298	--	419	--
E	ALL	152	152	178	165	203	254	302	391	432	457	483	686
F	ALL	98	98	98	98	98	98	162	162	162	162	162	203
G	ALL	152	171	195	222	298	356	533	622	711	794	876	1321
H	ALL	254	279	279	279	305	330	356	432	457	508	508	724

*GROOVED END NOT AVAILABLE IN DN32



For maximum efficiency, the OCV control valve should be mounted in a piping system so that the valve bonnet (cover) is in the top position. Other positions are acceptable but may not allow the valve to function to its fullest and safest potential. In particular, please consult the factory before installing 8" and larger valves, or any valves with a limit switch, in positions other than described. Space should be taken into consideration when mounting valves and their pilot systems.

A routine inspection & maintenance program should be established and conducted yearly by a qualified technician. Consult our factory @ 1-888-628-8258 for parts and service.

How to order your valve

When ordering please provide: - Series Number - Valve Size - Globe or Angle - Pressure Class - Screwed, Flanged, Grooved - Trim Material - Adjustment Range - Pilot Options - Fluid to be Controlled - Elastomer Material - Special Needs / or Installation Requirements.

OCV control valves

Represented by:

mining & industrial

Global performance. **Personal** touch.

controlvalves.com

TERMINAL SERVICES

OCV CONTROL VALVES FOR MAXIMUM EFFICIENCY AND PERFORMANCE.

OCV® FLUID SOLUTIONS LLC

matholding group

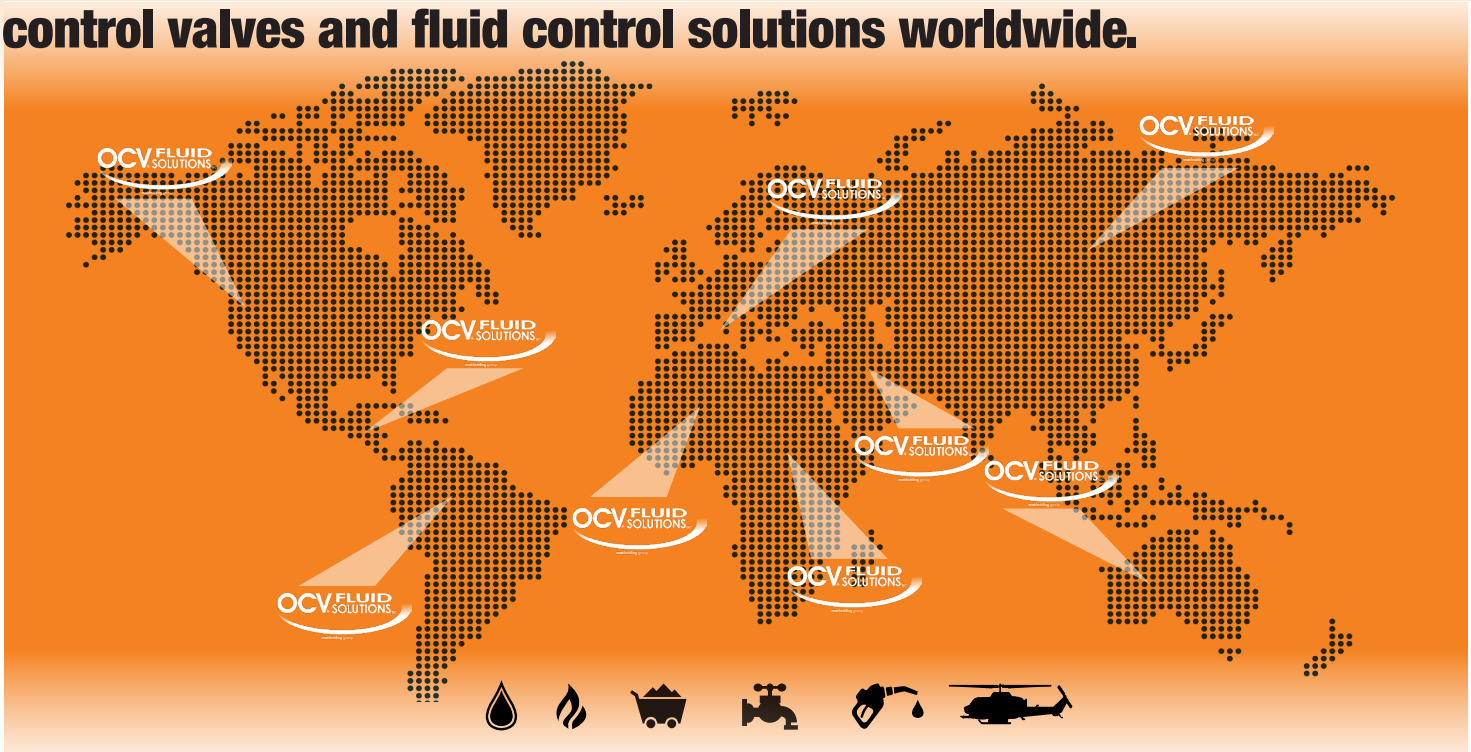
Quality products backed by the industry's leading warranty.

For over 60 years, OCV has been a trusted name in the terminal services industry, providing quality products and backing them up with outstanding service and an industry-leading 5-year warranty. Nothing speaks louder of our commitment to quality and performance, and to the customers we serve around the globe.

Global performance. Personal touch.

Over the years, we've learned what is important to our customers. You want a quality product that has been tested and tested again, then backed by the leading 5-year warranty in the business. You want service that is personal, built on responsiveness, integrity and trust. And you want it all at a price that's competitive. That is why engineers, construction professionals and end users are choosing OCV. With our modern facilities and expanding global presence, we're the smart choice for fluid system control.

We proudly service the terminal services, waterworks, fire protection, aviation fueling, commercial plumbing, industrial and mining industries, offering our customers, the highest quality control valves and fluid control solutions worldwide.



Smart solutions for Terminal Services.

We provide a wide range of high-performing automatic control valves designed to meet the needs of terminal service applications. From fueling distribution to storage tanks, our products deliver quality, precision and reliability. OCV is your industry go-to for control valves used in storage tanks, metering systems, loading terminals, truck loading and truck/rail car unloading systems. Built to specification, our valves help you control with confidence.

SHARP
Safety & Health Achievement Recognition Program
Consultation: An OSHA Cooperative Program

CE

ABS
TYPE APPROVED PRODUCT

TECHNICAL STANDARDS & SAFETY AUTHORITY
TSSA

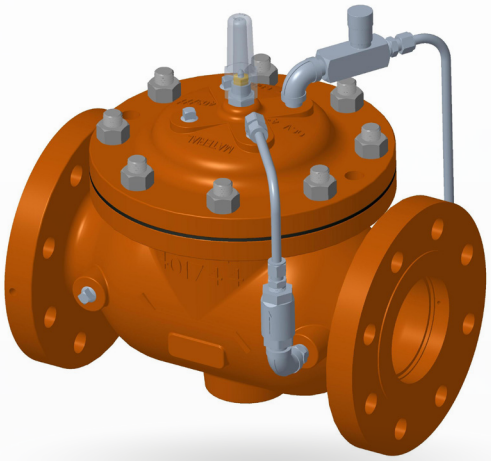
NSF
NSF-ISR
Registered to ISO 9001

OUR VALVES

All valves are not created equal. OCV Fluid Solutions proves that day in and day out. We stand behind our valves and are ready to serve your needs.

Committed to the work they do, our employees average over 15 years of service. This wealth of knowledge allows us to provide quality engineering, expert support, exacting control and the know-how to create valves known for their long life. Being ISO 9001 certified means we are committed to a quality assurance program. Our policy is to supply each customer with consistent quality products and ensure that the process is right every time. Our valves meet and exceed industry standards around the world.

TRUCK LOADING VALVES



Model 94-1QC Non-Surge Check Valve

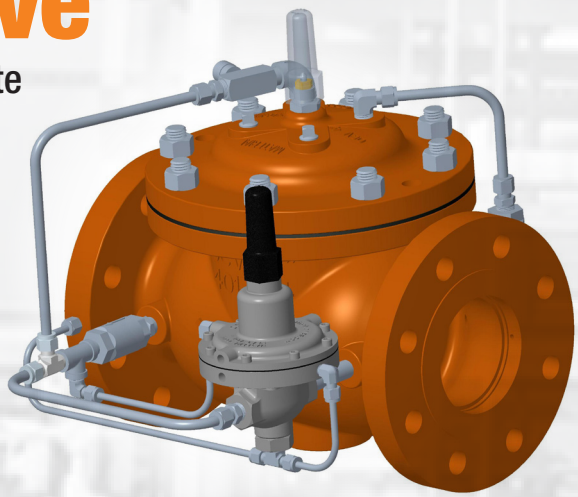
The Model 94-1QC non-surge check valve is a simple on/off valve which effectively minimizes pump start up surges. The 94-1QC opens at an adjustable speed to allow forward flow and closes quickly and tightly to prevent reverse flow.

FEATURES

- Opens slowly on pump start
- Closes quickly on pump shut-down
- Visual indicator enables operator to determine valve position at a glance

Model 120-6 Rate of Flow Control/Check Valve

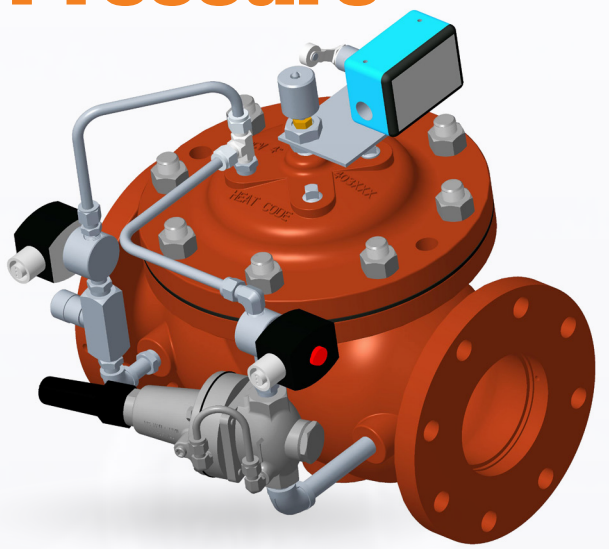
The Model 120-6 is applicable anywhere flow rate must be controlled or limited and reverse flow must be prevented, and is therefore well suited as a pump discharge control valve.



FEATURES

- Controls or limits flow to a predetermined rate
- Built-in orifice plate for sensing flow rate
- Check feature closes valve on pressure reversal
- Extra-sensitive differential pilot
- Flow rate is adjustable with single screw
- Adjustable response speed

Model 127-9S Two-Stage Preset Valve With Pressure Reducing Control

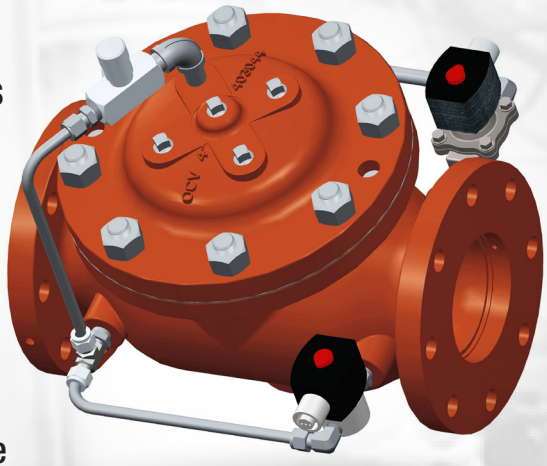


The Model 127-9S is specifically designed for fuel loading systems. It controls downstream delivery pressure at a predetermined point and includes two-stage shut-down.

FEATURES

- Opens on signal from preset register
- Controls downstream pressure (adjustable)
- Closes in two stages based on signals from preset register
- Explosion-proof prewired junction box available
- Two stage opening available via timer

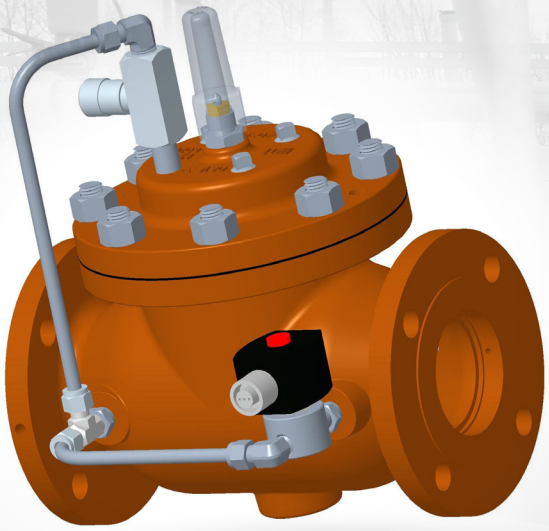
Model 115-25 Two-Stage Preset Valve



The Model 115-25 is specifically designed for fuel loading systems and performs and provides electrical opening, for full flow delivery, and two-stage shutdown.

FEATURES

- Opens on signal from preset register
- Closes in two stages based on signals from preset register (mechanical or electronic)
- Explosion-proof pre-wired junction box available
- Two stage opening (timer) available



Model 115-2 Solenoid Shut-Off Valve

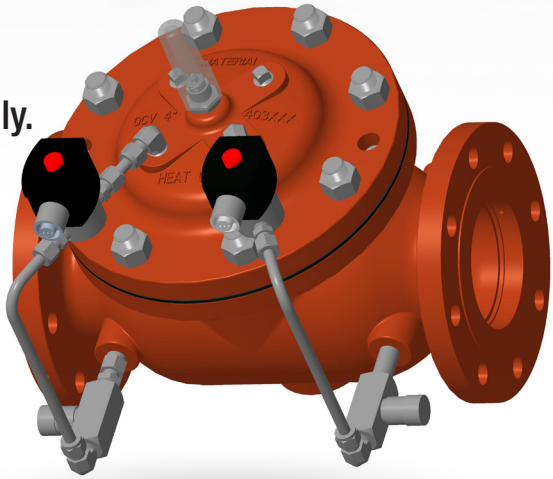
The Model 115-2 is applicable anywhere it is necessary to open and close a valve electrically. Typical examples include process control, petroleum loading terminals and storage tank level control.

FEATURES

- Electrically operated solenoid allows valve to open or close
- Adjustable response speed

Model 115-3 Digital Preset Valve

The Model 115-3 is applicable anywhere it may be required to position a valve electrically. Typical examples include process control, supervisory flow or pressure control and fuel terminal loading racks.

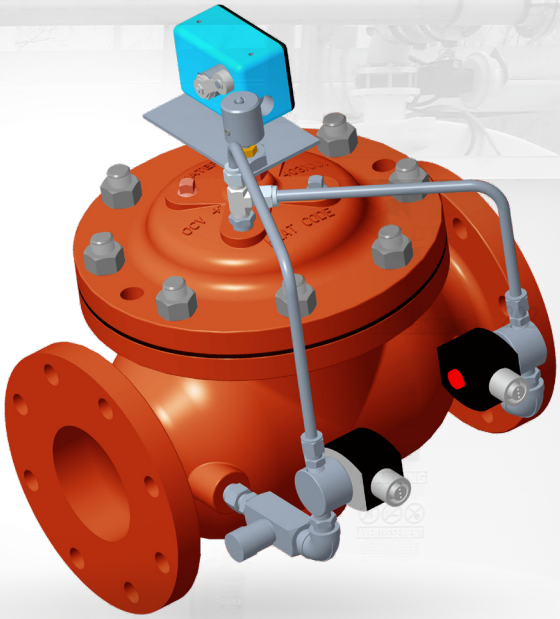


FEATURES

- Electrically operated solenoids enable the valve to be opened, closed, or held in any position
- Independently adjustable opening and closing speeds

Model 115-5S Two-Stage Preset Valve

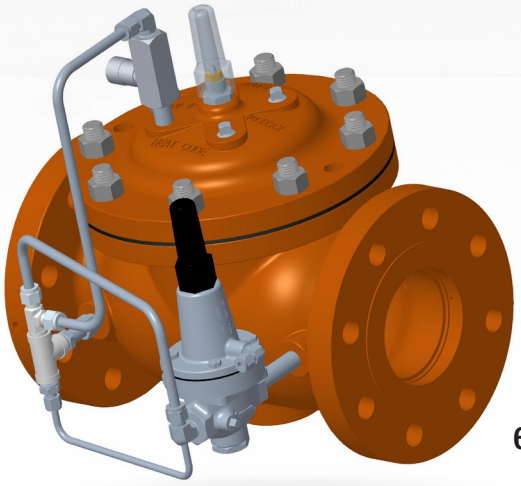
The Model 115-5S is specifically designed for fuel loading systems. It electrically opens for full flow delivery and includes a two-stage shut-down.



FEATURES

- Opens on signal from preset register
- Can be controlled by mechanical or electronic presets
- Adjustable flow setting for 2nd stage dwell
- Explosion-proof pre-wired junction box available
- Two stage opening (timer) available

TRUCK OFFLOADING VALVES



Model 110 Differential Pressure Control Valve

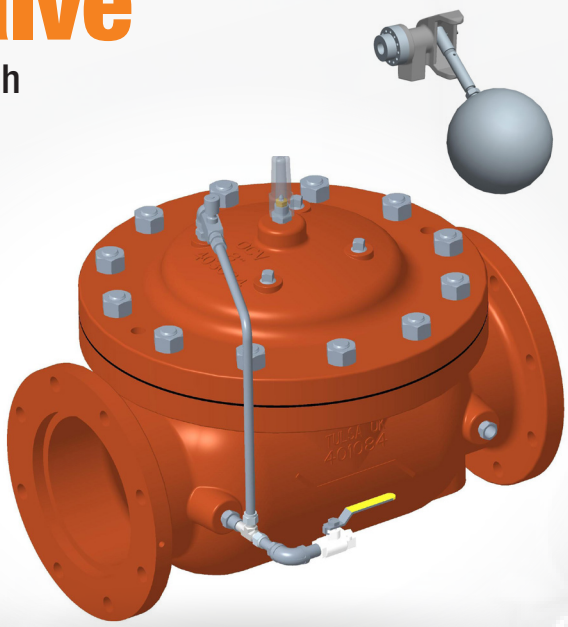
The Model 110 operates on/off based on the pressure difference between two points in a system. Typical application examples include LPG metering systems to prevent flashing and metering systems as an air eliminator shut-off valve.

FEATURES

- Valve opens on an increasing differential; closes on decreasing differential
- Operates over a wide flow range
- Pressure differential is adjustable with single screw
- Adjustable response speed

8100 Series High Level Shut-Off Valve

The Model 8101 automatically controls the high level in storage tanks where the float pilot can be mounted inside the tank.

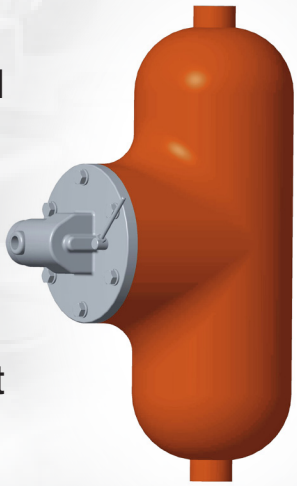


FEATURES

- Allows tank filling and shuts off on high level
- Remote-mounted float pilot (inside tank)
- Two field-installed lines between valve and float pilot
- Adjustable response speed
- Manual tester available on float pilot
- (Model 8101 for valves that are 4” and smaller; Model 8104 for valves that are 6” and larger)

Model 815 Chamber Mounted Float Pilot

The Model 815 Float Pilot is a two-port, rotary-disc control pilot designed primarily for fuel service with floating roof tanks. It may also be used anywhere access to the tank interior is restricted or impossible. It is suitable for both modulating and on/off service. The 815 pilot operates the main valve directly on OCV Series 8103 Float Valves, and operates the main valve through the 1356 Differential Pilot on OCV Series 8106 Float Valves.



FEATURES

- Two port, rotary disc design
- Remote mounted-outside of the tank
- Float pilot can be removed from chamber for servicing
- Optional manual tester available

A plant powered by our people.

Through their dedication to quality, customer service and values, OCV Fluid Solutions has become

a worldwide leader in the valve industry.

OCV World Headquarters

A. Plant 1: Machine shop, valve assembly and water valve testing.
B. Administrative offices.
C. Plant 2: Coating shop.
D. Plant 3: Fueling valve testing.
E. Valve storage.

SPECIFICATIONS

VALVE BODY & BONNET	DUCTILE IRON		CAST STEEL WCB		CAST STEEL LCB		STAINLESS STEEL	
END CONNECTIONS								
Flange Standard (also available in metric)	ANSI B16.42		ANSI B16.5		ANSI B16.5		ANSI B16.5	
Flange Class	150#	300#	150#	300#	150#	300#	150#	300#
Flange Face	Flat	Raised	Raised	Raised	Raised	Raised	Raised	Raised
Maximum Working Pressure (at 100°F)	250 psi	640 psi	285 psi	740 psi	285 psi	740 psi	275 psi	720 psi

INTERNALS		
Stem	Stainless Steel	
Spring	Stainless Steel	
Spool	Ductile Iron (epoxy coated) / OPTIONAL - Stainless Steel	Stainless Steel
Seat Disc Retainer	Ductile Iron (epoxy coated) (10" & Larger) Stainless Steel (8" & Smaller / Optional - All Sizes)	Stainless Steel
Diaphragm Plate	Ductile Iron (epoxy coated) / OPTIONAL - Stainless Steel	Stainless Steel
Seat Ring (Trim)	Stainless Steel / Optional - Bronze	Stainless Steel
Upper Stem Bushing	Bronze or Teflon®	Teflon®
Lower Stem Bushing	Not Applicable for Bronze Seat Rings / Teflon® for Stainless Steel Seat Rings	

ELASTOMERS PARTS (Rubber)							
Diaphragm/Seat Disc/O-Rings	BUNA-N	or	VITON®	or	Fluorosilicon	or	EPDM
Operating Temperature*	-20°F to 180°F		20°F to 230°F		-40°F to 150°F		0°F to 230°F

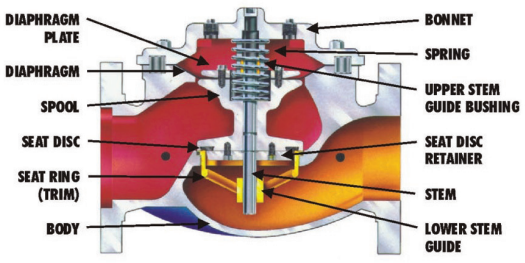
*Consult factory when temperatures approach low or high temperature allowance.

COATINGS OCV offers a wide range of coating options for petroleum and refined products.

ELECTRICAL SOLENOIDS			
Bodies	Brass or Stainless Steel		
Enclosures	Explosion proof solenoids available. ATEX/IECEx Optional		
Power	AC, 60hz - 24, 120, 240, 480 Volts	AC, 50HZ - In 110 Volt Multiples	DC,12, 24, 125, 240 Volts
Operation	Energize To Open (Normally Closed)	De-Energize To Open (Normally Open)	

CONTROL PILOTS		
Bodies	STN. STL.	Stainless Steel
Internal	STN. STL.	Stainless Steel
CONTROL CIRCUITS		
Tubing	STN. STL.	Stainless Steel
Fittings	STN. STL.	Stainless Steel

Stainless Steel is standard for Control pilot and control circuit tubing unless requested otherwise by the customer.



SEAWATER SERVICE MATERIALS

CAST STEEL SPECIAL COATINGS --NI ALUMINUM BRONZE ASTM B148 --DUPLEX STAINLESS STEEL

GLOBE FLANGED SIZES

1.25"	1.5"	2"	2.5"	3"	4"	6"	8"	10"	12"	14"	16"	18"*	20"*	24"
32MM	40MM	50MM	65MM	80MM	100MM	150MM	200MM	250MM	300MM	350MM	400MM	450MM*	500MM*	600MM

*Consult Factory

ANGLE FLANGED SIZES

1.25"	1.5"	2"	2.5"	3"	4"	6"	8"	10"	12"	16"
32MM	40MM	50MM	65MM	80MM	100MM	150MM	200MM	250MM	300MM	400MM

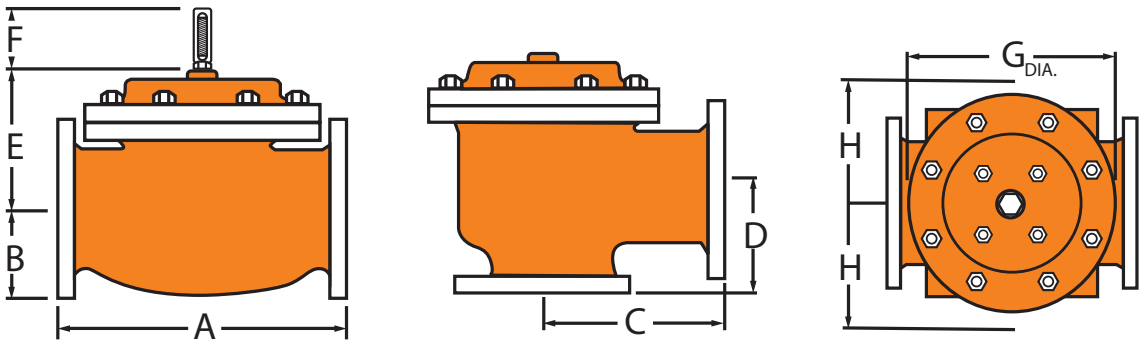
DIMENSIONS

U.S. DIMENSIONS - INCHES													
DIM	END CONN.	1 1/4-1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	24
A	150# FLGD	8 1/2	9 3/8	10 1/2	12	15	17 3/4*	25 3/8	29 3/4	34	39	40 3/8	62
	300# FLGD	8 3/4	9 7/8	11 1/8	12 3/4	15 5/8	18 5/8*	26 3/8	31 1/8	35 1/2	40 1/2	42	63 3/4
B	150# FLGD	2 5/16-2 1/2	3	3 1/2	3 3/4	4 1/2	5 1/2	6 3/4	8	9 1/2	10 5/8	11 3/4	16
	300# FLGD	2 5/8-3 1/16	3 1/4	3 3/4	4 1/8	5	6 1/4	7 1/2	8 3/4	10 1/4	11 1/2	12 3/4	18
C	150# FLGD	4 1/4	4 3/4	6	6	7 1/2	10	12 11/16	14 7/8	17	--	20 13/16	--
ANGLE	300# FLGD	4 3/8	5	6 3/8	6 3/8	7 13/16	10 1/2	13 3/16	15 9/16	17 3/4	--	21 5/8	--
D	150# FLGD	3	3 7/8	4	4	5 1/2	6	8	11 3/8	11	--	15 11/16	--
ANGLE	300# FLGD	3 1/8	4 1/8	4 3/8	4 3/8	5 13/16	6 1/2	8 1/2	12 1/16	11 3/4	--	16 1/2	--
E	ALL	6	6	7	6 1/2	8	10	11 7/8	15 3/8	17	18	19	27
F	ALL	3 7/8	3 7/8	3 7/8	3 7/8	3 7/8	3 7/8	6 3/8	6 3/8	6 3/8	6 3/8	6 3/8	8
G	ALL	6	6 3/4	7 11/16	8 3/4	11 3/4	14	21	24 1/2	28	31 1/4	34 1/2	52
H	ALL	10	11	11	11	12	13	14	17	18	20	20	28 1/2

*NOTE: FOR MILITARY SERVICE VALVES, 6" 150# FLANGES HAVE 20" FACE TO FACE DIMENSIONS AND 6" 300# FLANGES HAVE 20-7/8"" FACE TO FACE DIMENSIONS.

METRIC DIMENSIONS - MM													
DIM	END CONN.	DN32-DN40	DN50	DN65	DN80	DN100	DN150	DN200	DN250	DN300	DN350	DN400	DN600
A	150# FLGD	216	238	267	305	381	451*	645	756	864	991	1026	1575
	300# FLGD	222	251	283	324	397	473*	670	791	902	1029	1067	1619
B	150# FLGD	59-64	76	89	95	114	140	171	203	241	270	298	406
	300# FLGD	67-78	83	95	105	127	159	191	222	260	292	324	457
C	150# FLGD	108	121	152	152	191	254	322	378	432	--	529	--
ANGLE	300# FLGD	111	127	162	162	198	267	335	395	451	--	549	--
D	150# FLGD	76	98	102	102	140	152	203	289	279	--	398	--
ANGLE	300# FLGD	79	105	111	111	148	165	216	306	298	--	419	--
E	ALL	152	152	178	165	203	254	302	391	432	457	483	686
F	ALL	98	98	98	98	98	98	162	162	162	162	162	203
G	ALL	152	171	195	222	298	356	533	622	711	794	876	1321
H	ALL	254	279	279	279	305	330	356	432	457	508	508	724

*NOTE: FOR MILITARY FUELING VALVES, 6" (DN150) 150# FLANGES HAVE 20" (20MM) FACE TO FACE DIMENSIONS AND 6" (DN150) 300# FLANGES HAVE 20-7/8" (208MM) FACE TO FACE DIMENSIONS.



For maximum efficiency, the OCV control valve should be mounted in a piping system so that the valve bonnet (cover) is in the top position. Other positions are acceptable but may not allow the valve to function to its fullest and safest potential. In particular, please consult the factory before installing 8" and larger valves, or any valves with a limit switch, in positions other than described. Space should be taken into consideration when mounting valves and their pilot systems.

A routine inspection & maintenance program should be established and conducted yearly by a qualified technician. Consult our factory @ 1-888-628-8258 for parts and service.

How to order your valve.

When ordering please provide: - Series Number - Valve Size - Globe or Angle - Pressure Class - Screwed, Flanged, Grooved - Trim Material - Adjustment Range - Pilot Options - Fluid to be Controlled - Elastomer Material - Special Needs / or Installation Requirements.

OCV® FLUID SOLUTIONS LLC

matholding group

controlvalves.com

AVIATION FUELING

CONTROL VALVES

OCV® FLUID SOLUTIONS LLC

matholding group

Quality products backed by the industry's leading warranty.

For over 60 years, OCV has been a trusted name in the military and commercial aviation industries, providing quality products and backing them up with outstanding service and an industry-leading 5-year warranty. Nothing speaks louder of our commitment to quality and performance, and to the customers we serve around the globe.

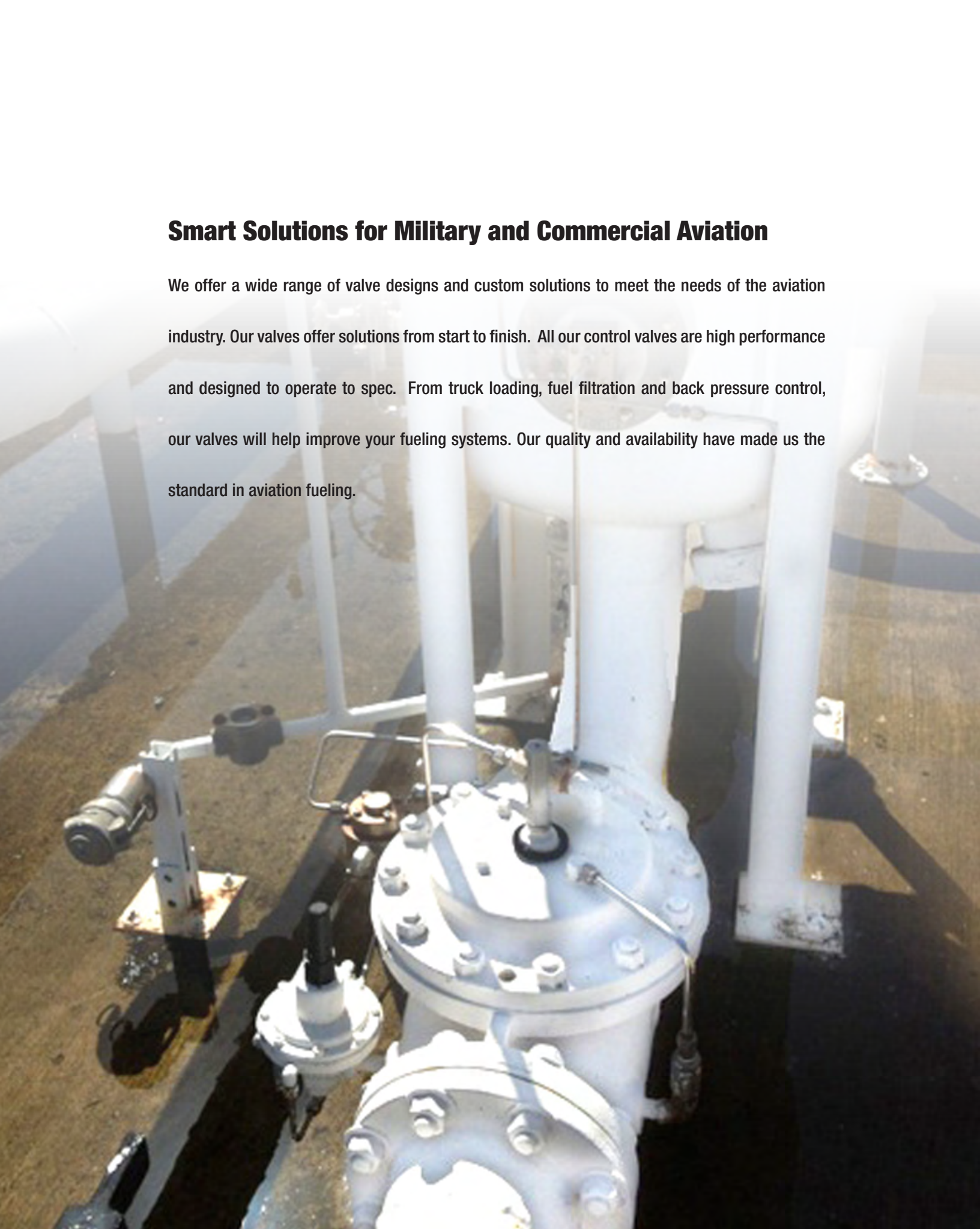
Global performance. Personal touch.

Over the years, we've learned what's important to our customers. You want a quality product that's been tested and tested again, then backed by the leading 5-year warranty in the business. You want service that's personal, built on responsiveness, integrity and trust. And you want it all at a price that's competitive. That's why engineers, construction professionals and end users are choosing OCV Control Valves. With our modern facilities and expanding global presence, we're the smart choice for fluid system control.

We proudly service the waterworks, fire protection, terminal services, aviation fueling, commercial plumbing and mining industries, offering our customers, the highest quality control valves and fluid control solutions worldwide.

Smart Solutions for Military and Commercial Aviation

We offer a wide range of valve designs and custom solutions to meet the needs of the aviation industry. Our valves offer solutions from start to finish. All our control valves are high performance and designed to operate to spec. From truck loading, fuel filtration and back pressure control, our valves will help improve your fueling systems. Our quality and availability have made us the standard in aviation fueling.



OUR VALUES

All valves are not created equal. OCV Fluid Solutions proves that day in and day out. We stand behind our valves and are ready to serve your needs.

Committed to the work they do, our employees average over 15 years of service. This wealth of knowledge allows us to provide quality engineering, expert support, exacting control and the know-how to create valves known for their long life.

Being ISO 9001 certified means we are committed to a quality assurance program. Our policy is to supply each customer with consistent quality products and ensure that the process is right every time. Our valves meet and exceed industry standards around the world.

OCV control valves are hydraulically operated, diaphragm actuated globe or angle valves that operate automatically from either line pressure or an independent hydraulic source. Internal moving parts are minimal and all valves can be adjusted and serviced without removal from the line, creating the lowest total cost of ownership.

FILTER SEPARATOR VALVES

Model 119 Filter Separator Shut-Off Valve

Model 119

The Model 119 Slug Valve (FSCV) interfaces with filter separators via OCV's filter-mounted float pilot. When too much water accumulates in the sump of a filter, the float rises up and shuts down the slug valve to prevent water from contaminating the hydrant system. This valve can be trimmed with a wide variety of features. Some of the more common features used are: Check, Flow-limiting, Emergency Shutdown, and Max-Differential Shutdown.

FEATURES

- High capacity pilot system provides quick closing
- Valve position indicator

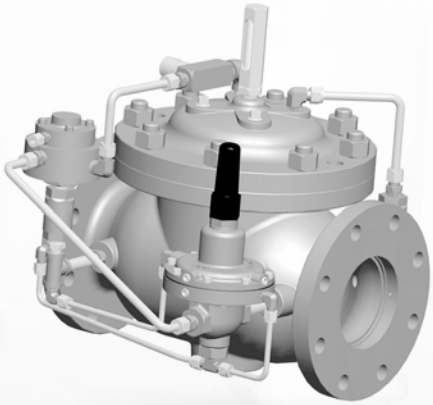
Model 119-5 Filter Separator Rate of Flow/Shut-Off Valve

The Model limits the flow of fuel through a filter separator and, in the event of high water levels in the filter separator sump, closes fully. It operates in conjunction with one of the OCV 800 Series interface float pilots.

FEATURES

- Controls or limits flow to a predetermined rate
- Built-in orifice plate for sensing flow rate
- Extra-sensitive differential pilot
- Flow rate is adjustable with single screw
- High capacity pilot system provides quick closing
- Valve position indicator
- Meets the UFGS-33 52 43.14 Guide Specifications for a Filter Separator Control Valve with a Flow Limiting Feature

Model 119-15 Filter Separator Rate of Flow/Shut-Off/Check Valve

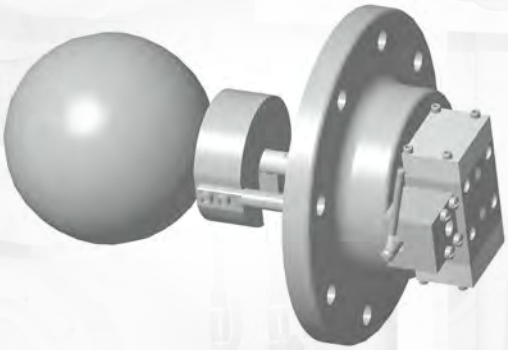


The Model 119-15 is designed to limit the flow of fuel through a filter separator, close fully in the event of high water levels in the filter separator sump and to prevent reverse flow. It operates in conjunction with one of the OCV 800 Series interface float pilots.

FEATURES

- Controls or limits flow to a predetermined rate
- Built-in orifice plate for sensing flow rate
- Extra-sensitive differential pilot
- Flow rate is adjustable with single screw
- High capacity pilot system provides quick closing on water slug
- Check feature integral to pilot system
- Optional solenoid can be added for emergency shut-off functions
- Meets the UFGS-33 52 43.14 Guide Specifications for a Filter Separator Control Valve

Model 800D-MTW Interface Float Pilot-Side Mounted



The Model 800D-MTW is the key control element of all OCV filter separator float controls, the sole purpose of which is to allow only the discharge of clean, water-free fuel from the filter separator.

FEATURES

- Ballasted manual tester verifies integrity of float ball
- Side-mount flange fits most brands of filter separators
- Pilot float “rides” the interface between water and fuel
- Four-way control to actuate discharge slug valve and/or automatic water drain valve
- Uses OCV’s time-proven 800 pilot block design
- Stainless Steel pilot and float assembly (no red metals)
- Meets the UFGS-33 52 43.14 Guide Specifications for a Filter Separator Float Control Valve and Tester

Model 120-16

The Model 120-16 is applicable anywhere the flow rate must be controlled or limited. Typical examples include pump systems and fuel metering systems (FSCV).

FEATURES

- Modulates as required to prevent flow rate from exceeding a predetermined maximum
- Opens and closes via discrete electrical signals
- Closes to prevent backflow in the event of pressure reversal
- Built-in orifice plate for sensing flow rate
- Extra-sensitive differential pilot
- Flow rate is adjustable with single screw
- Adjustable response speed

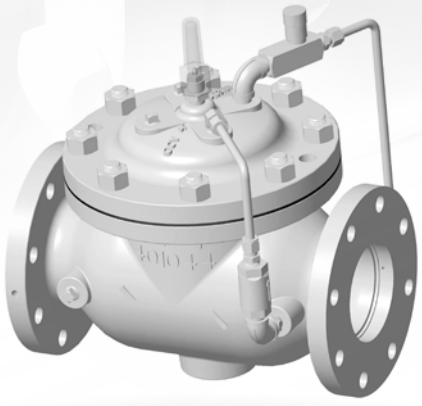
PUMP DISCHARGE VALVES

Model 120-6 Rate of Flow/ Non-Surge Check Valve

The Model 120-6 is applicable where the flow rate must be controlled or limited and reverse flow must be prevented, and is therefore ideal as a pump discharge control valve (CV).

FEATURES

- Controls or limits flow to a predetermined rate
- Built-in orifice plate for sensing flow rate
- Check feature closes valve on pressure reversal
- Extra-sensitive differential pilot
- Flow rate is adjustable with single screw
- Adjustable response speed
- Optional solenoid can be added for emergency shut-off functions
- Meets the UFGS-33 52 43.14 Guide Specifications for a Non-Surge Check Valve with Flow Control



Model 94-1QC Non-Surge Check Valve

The Model 94-1QC non-surge check valve is a simple on/off valve which effectively minimizes pump start up surges. The 94-1QC opens at an adjustable speed to allow forward flow and closes quickly and tightly to prevent reverse flow (CV).

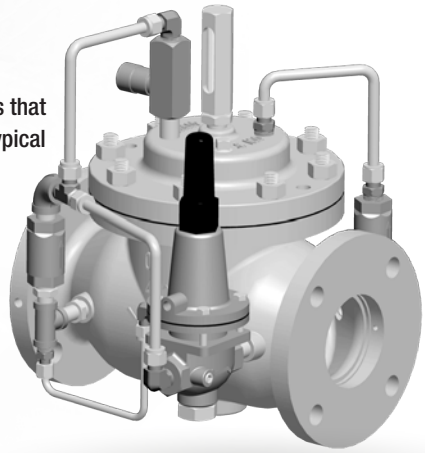
FEATURES

- Opens slowly on pump start
- Closes quickly on pump shut-down
- Visual indicator enables operator to determine valve position at a glance
- Meets the UFGS-33 52 43.14 Guide Specifications for a Non-Surge Check Valve

SYSTEM PRESSURE CONTROL VALVES

Model 108-3

The Model 108-3 is applicable anywhere a system must be protected from pressures that are too high (relief) or too low (sustaining) and reverse flow must be prevented. Typical examples include pump systems and fuel distribution systems (PCV).



FEATURES

- Pressure Sustaining: prevents inlet pressure from dropping below a predetermined minimum
- Automatic closure on pressure reversal
- Operates over a wide flow range
- Set pressure is adjustable with single screw
- Quick opening and adjustable closing speed

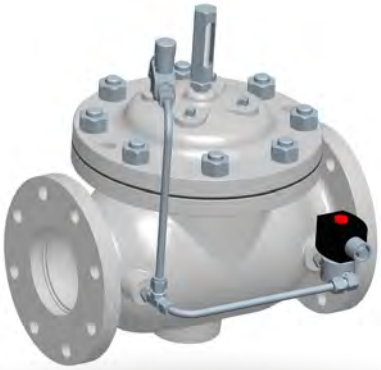
Model 108-34 Backpressure/ Check/Solenoid Shut-Off Valve

The Model 108-34 is used to maintain a minimum back pressure, combined with the requirement of backflow prevention and an on/off electrical operation. Typical application examples include pump systems, fuel distribution systems and hydrant refueling system back pressure control valve (BPCV, PCV, D/FV).

Backpressure Control Valves (BPCV) are activated via solenoid and maintain a hydrant system pressure during aircraft fueling operations. Pressure Control Valves (PCV) lower hydrant system pressure during low usage or zero-demand times. Defuel/Flush Valves (D/FV) ae used while either defueling aircraft or flushing hydrant sysyem of debris.

FEATURES

- Pressure Sustaining: Prevents inlet pressure from dropping below a predetermined minimum
- Electrically operated solenoid allows valve to open (control pressure) or shut off (close)
- Automatic closure on pressure reversal
- Operates over a wide flow range
- Meets the UFGS-33 52 43.14 Guide Specifications for a Backpressure Control Valve in a Type III System, for a Pressure Control Valve in a Type III System and an Air Block Valve/Non-Surge Check Valve
- Set pressure is adjustable with single screw
- Quick opening and adjustable closing speed
- Can be specialized for Type III and Type IV Systems



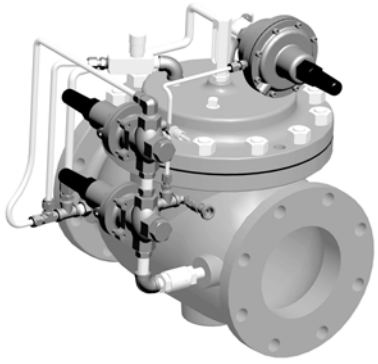
Model 115-2 Solenoid Shut-Off/Flushing Valve

The Model 115-2 is used to open and close a valve electrically. Typical application examples include process control, petroleum loading terminals and storage tank level control (FV).

FEATURES

- Electrically operated solenoid allows valve to open or close
- Adjustable response speed

REFUELING & DEFUELING CONTROL VALVES



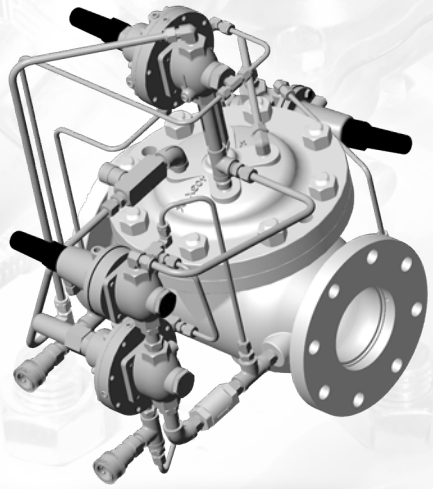
Model 114-1 Hydrant Control Valve for Hose Truck Systems

The OCV Model 114-1 is a control valve specifically designed for aircraft refueling service. Known as either a refueling or a hydrant control valve, it is the typical control valve for hydrant refueling systems and is used in conjunction with a hydrant hose truck or refueler. It opens and closes via pneumatic deadman control, modulates to control downstream pressure at a predetermined set point while open and closes rapidly to prevent undue pressure buildup due to a rapid reduction in demand (HCV).

FEATURES

- Pneumatic deadman control
- Pressure reducing pilot senses valve outlet or pressure compensating venturi
- High capacity surge control minimizes pressure buildup on reduction of flow
- Opening speed control
- Automatically opens for downstream thermal relief or defueling
- Equipped with visual indicator to monitor valve position
- Meets the UFGS-33 52 43.14 Guide Specifications for a Hydrant Control Valve for Hose Truck Systems (HHT) and Pantograph Systems

Model 114-2 control valve

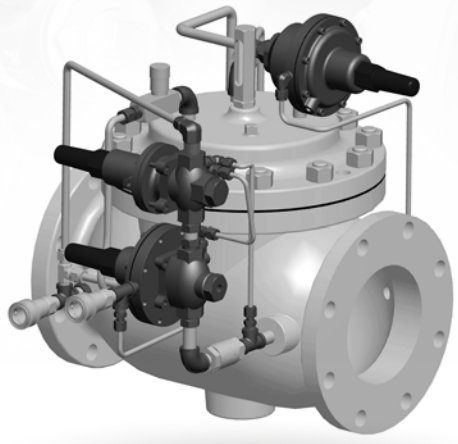


The OCV Model 114-2 is a control valve specifically designed for aircraft refueling service. Known as either a refueling or a hydrant control valve, it is the typical control valve used on pantograph refueling systems. It opens and closes via hydraulic deadman control, while open modulates to control downstream pressure at a predetermined set point, limits flow rate to a predetermined maximum and closes rapidly to prevent undue pressure buildup due to a rapid reduction in demand (HCV).

FEATURES

- Hydraulic deadman control
- Pressure reducing pilot senses valve outlet or pressure compensating venturi
- High capacity surge control minimizes pressure buildup on reduction of flow
- Rate of flow pilot limits maximum flow
- Opening speed control
- Automatically opens for downstream thermal relief or defueling
- Equipped with visual indicator to monitor valve position

Model 114-3 Hydrant Control Valve for Pantograph Systems



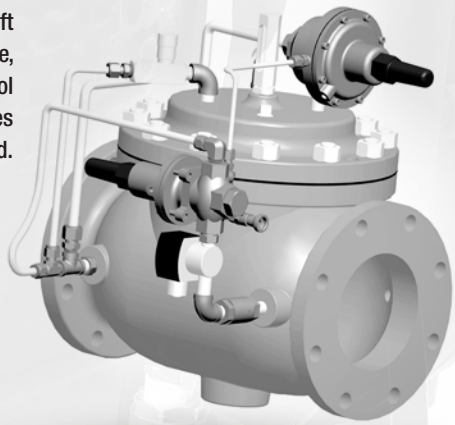
The OCV Model 114-3 is a control valve specifically designed for aircraft refueling service. Known as either a refueling or a hydrant control valve, it is the typical control valve used on pantograph refueling systems. It opens and closes via hydraulic deadman control, modulates to control downstream pressure at a predetermined set point whole open, and closes rapidly to prevent undue pressure buildup due to a rapid reduction in demand (HCV).

FEATURES

- Hydraulic deadman control
- Pressure reducing pilot senses valve outlet or pressure compensating venturi
- High capacity surge control minimizes pressure buildup on reduction of flow
- Opening speed control
- Automatically opens for downstream thermal relief or defueling
- Equipped with visual indicator to monitor valve position
- Meets the UFGS-33 52 43.14 Guide Specifications for a Hydrant Control Valve for Pantograph Systems

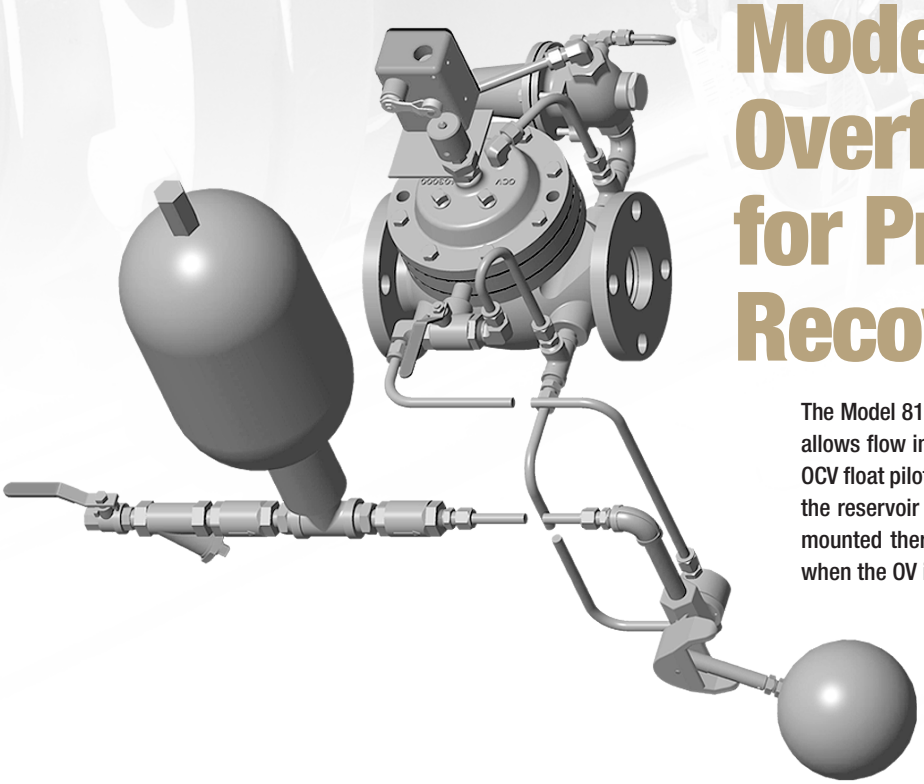
Model 114-1E Refueling Control Valve

The OCV Model 114-1E is a control valve specifically designed for aircraft refueling service. Known as either a refueling or a hydrant control valve, it opens and closes electrically via a solenoid pilot, modulates to control downstream pressure at a predetermined set point while open and closes rapidly to prevent undue pressure buildup due to a rapid reduction in demand.



FEATURES

- Electrical deadman control
- Pressure reducing pilot senses valve outlet or pressure compensating venturi
- High capacity surge control minimizes pressure buildup on reduction of flow
- Opening speed control
- Automatically opens for downstream thermal relief or defueling
- Equipped with visual indicator to monitor valve position
- Designed for Hose Truck Systems (HHT) and Pantograph Systems



Model 8121-ETR Overfill Valve for Product Recovery Tank

The Model 8121-ETR Overfill Valve (OV) is a normally open valve that allows flow into a fuel reclaim reservoir. The OV is controlled via an OCV float pilot remotely mounted on the fuel reclaim reservoir. When the reservoir is full, the OV will close to prevent overfilling. A valve mounted thermal relief valve prevents upstream pressure build-up when the OV is closed due to a full reservoir.

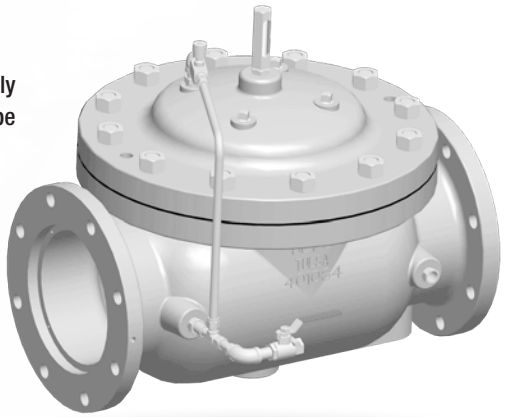
FEATURES

- Automatically opens to allow flow to the tank when the tank is less than full (float down)
- Closes when the tank is full (float up)
- Relieves upstream thermal pressure buildup into the tank regardless of tank level

HIGH LEVEL CONTROL VALVES

Model 8101

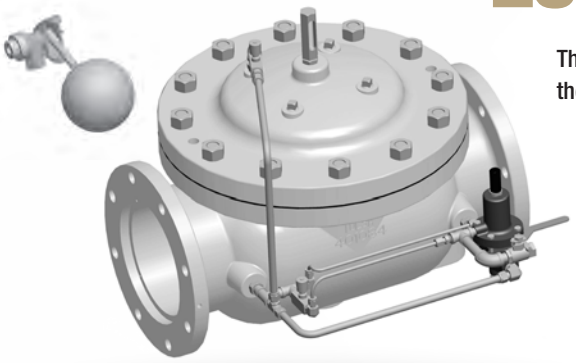
The Model 8101 is applicable anywhere it is necessary to automatically control the high level in storage tanks where the float pilot can be mounted inside the tank.



FEATURES

- Allows tank filling and shuts off on high level
- Remote-mounted float pilot (inside tank)
- Two field-installed lines between valve and float pilot
- Adjustable response speed
- Manual tester available on float pilot

Model 8104 High Level Shut-Off Valve



The Model 8104 automatically controls the high level in storage tanks where the float pilot can be mounted inside the tank, such as below ground tanks.

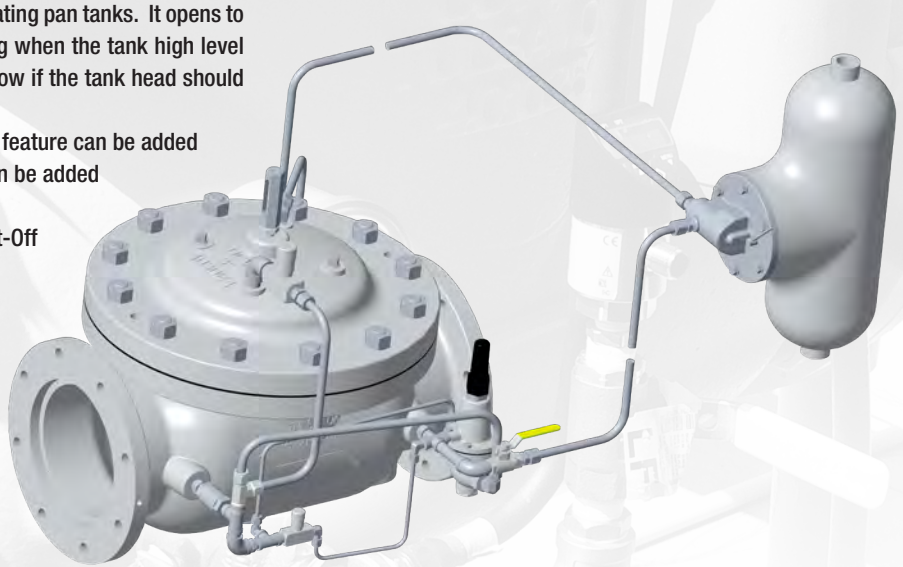
FEATURES

- Allows tank filling and shuts off on high level
- Remote-mounted float pilot (inside tank)
- Two field-installed lines between valve and float pilot
- Adjustable response speed
- Manual tester available on float pilot

Model 8106-6 High Level Shut-Off Valve

The Model 8106-6, with its chamber-mounted float pilot, is specifically designed for high level shut-off use on floating pan tanks. It opens to allow the tank to fill, automatically closing when the tank high level is reached and closes tightly to prevent flow if the tank head should exceed inlet pressure.

- Optional pressure sensitive closing feature can be added
- Optional quick opening solenoid can be added
- Meets the UFGS-33 52 43.14 Guide Specifications for a High Level Shut-Off Valve with Check Feature



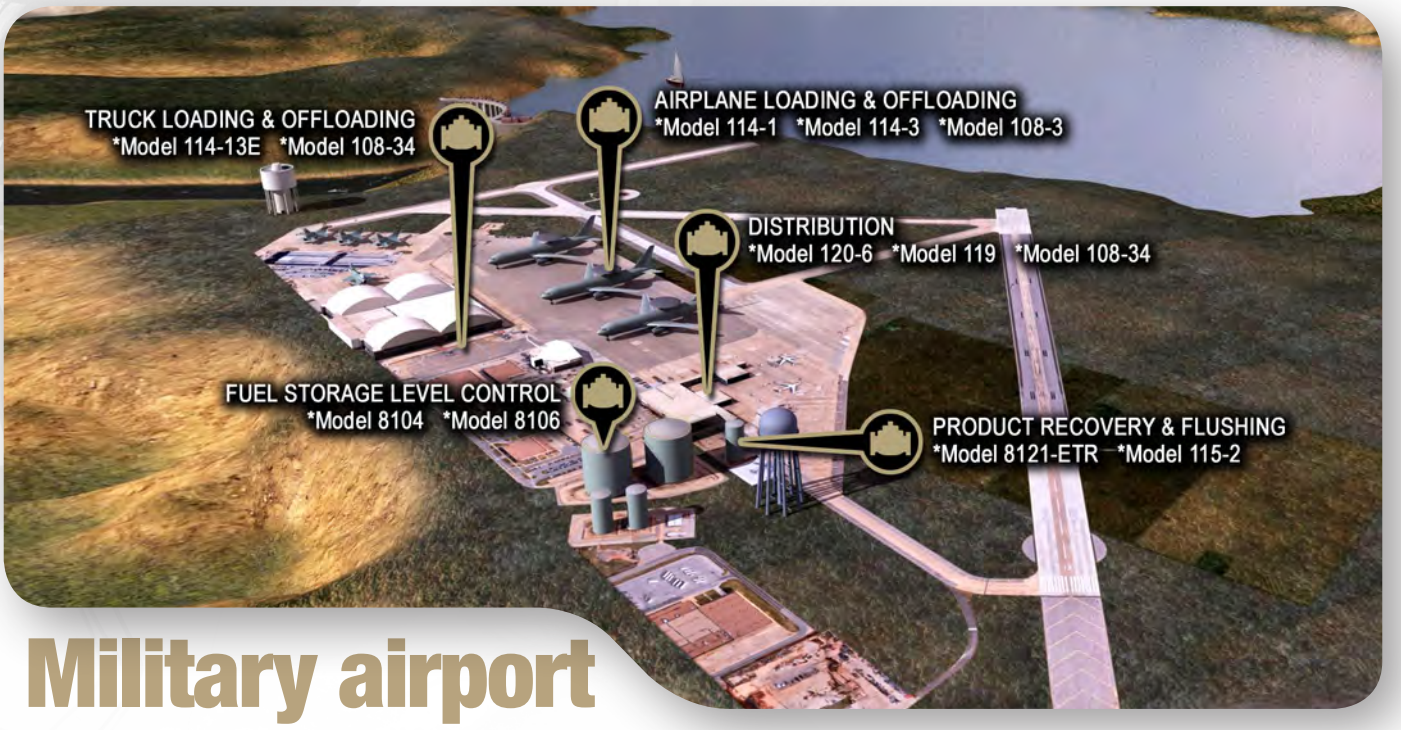
TANK SAFETY VALVES

The Model 66TS Tank Safety Valve

The Model 66TS Tank Safety Valve is designed to automatically isolate a fuel storage tank from its loading terminal or product transfer point. Hydraulically linked to the delivery pump, the valve is open only when the pump is running and is effectively producing pressure. The valve will automatically close when the pump is off, fails to produce pressure, or in the event of a line rupture.

FEATURES

- Totally hydraulic operation; no electrical connections
- Dual chamber, full open, low pressure drop design
- Thermal relief of excess downstream pressure
- Provides anti-siphon protection
- Capable of manual operation
- Valve position indicator standard



Military airport

Commercial airport

SPECIFICATIONS

VALVE BODY & BONNET	DUCTILE IRON		CAST STEEL WCB		CAST STEEL LCB		STAINLESS STEEL	
END CONNECTIONS								
Flange Standard (also available in metric)	ANSI B16.42		ANSI B16.5		ANSI B16.5		ANSI B16.5	
Flange Class	150#	300#	150#	300#	150#	300#	150#	300#
Flange Face	Flat	Raised	Raised	Raised	Raised	Raised	Raised	Raised
Maximum Working Pressure (at 100°F)	250 psi	640 psi	285 psi	740 psi	285 psi	740 psi	285 psi	740 psi

INTERNALS		
Stem	Stainless Steel	
Spring	Stainless Steel	
Spool	Ductile Iron (epoxy coated) / OPTIONAL - Stainless Steel	Stainless Steel
Seat Disc Retainer	Ductile Iron (epoxy coated) (10" & Larger) Stainless Steel (8" & Smaller / Optional - All Sizes)	Stainless Steel
Diaphragm Plate	Ductile Iron (epoxy coated) / OPTIONAL - Stainless Steel	Stainless Steel
Seat Ring (Trim)	Stainless Steel / Optional Bronze	Stainless Steel
Upper Stem Bushing	Bronze or Teflon®	Teflon®
Lower Stem Bushing	Not Applicable for Bronze Seat Rings / Teflon® for Stainless Steel Seat Rings	

ELASTOMERS PARTS (Rubber)							
Diaphragm/Seat Disc/O-Rings	BUNA-N	or	VITON®	or	Fluorosilicon	or	EPDM
Operating Temperature*	-40°F to 180°F		20°F to 230°F		-40°F to 150°F		0°F to 230°F

*Consult factory when temperatures approach low or high temperature allowance.

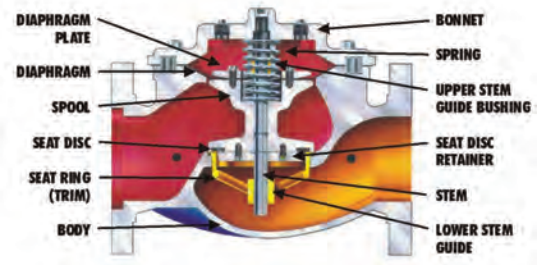
COATINGS	Wide range of coating fluid applications. Coatings handle petroleum and refined products. Electroless nickel plating is standard for military applications.

ELECTRICAL SOLENOIDS			
Bodies	Brass or Stainless Steel		
Enclosures	Explosion proof solenoids available. ATEX/IECEx Optional		
Power	AC, 60hz - 24, 120, 240, 480 Volts	AC, 50HZ - In 110 Volt Multiples	DC,12, 24, 125, 240 Volts
Operation	Energize To Open (Normally Closed)	De-Energize To Open (Normally Open)	

VITON® AND TEFLON® are registered trademarks of DuPont Dow Elastomers.

CONTROL PILOTS	
Bodies	Stainless Steel
Internal	Stainless Steel
CONTROL CIRCUITS	
Tubing	Stainless Steel
Fittings	Stainless Steel

Stainless Steel is standard for Control pilot and control circuit tubing unless requested otherwise by the customer.



GLOBE FLANGED SIZES

1.25"	1.5"	2"	2.5"	3"	4"	6"	8"	10"	12"	14"	16"	18"*	20"*	24"
32MM	40MM	50MM	65MM	80MM	100MM	150MM	200MM	250MM	300MM	350MM	400MM	450MM*	500MM*	600MM

*Consult Factory

ANGLE FLANGED SIZES

1.25"	1.5"	2"	2.5"	3"	4"	6"	8"	10"	12"	16"
32MM	40MM	50MM	65MM	80MM	100MM	150MM	200MM	250MM	300MM	400MM

DIMENSIONS

U.S. DIMENSIONS - INCHES													
DIM	END CONN.	1 1/4-1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	24
A	150# FLGD	8 1/2	9 3/8	10 1/2	12	15	17 3/4*	25 3/8	29 3/4	34	39	40 3/8	62
	300# FLGD	8 3/4	9 7/8	11 1/8	12 3/4	15 5/8	18 5/8*	26 3/8	31 1/8	35 1/2	40 1/2	42	63 3/4
B	150# FLGD	2 5/16-2 1/2	3	3 1/2	3 3/4	4 1/2	5 1/2	6 3/4	8	9 1/2	10 5/8	11 3/4	16
	300# FLGD	2 5/8-3 1/16	3 1/4	3 3/4	4 1/8	5	6 1/4	7 1/2	8 3/4	10 1/4	11 1/2	12 3/4	18
C	150# FLGD	4 1/4	4 3/4	6	6	7 1/2	10	12 11/16	14 7/8	17	--	20 13/16	--
ANGLE	300# FLGD	4 3/8	5	6 3/8	6 3/8	7 13/16	10 1/2	13 3/16	15 9/16	17 3/4	--	21 5/8	--
D	150# FLGD	3	3 7/8	4	4	5 1/2	6	8	11 3/8	11	--	15 11/16	--
ANGLE	300# FLGD	3 1/8	4 1/8	4 3/8	4 3/8	5 13/16	6 1/2	8 1/2	12 1/16	11 3/4	--	16 1/2	--
E	ALL	6	6	7	6 1/2	8	10	11 7/8	15 3/8	17	18	19	27
F	ALL	3 7/8	3 7/8	3 7/8	3 7/8	3 7/8	3 7/8	6 3/8	6 3/8	6 3/8	6 3/8	6 3/8	8
G	ALL	6	6 3/4	7 11/16	8 3/4	11 3/4	14	21	24 1/2	28	31 1/4	34 1/2	52
H	ALL	10	11	11	11	12	13	14	17	18	20	20	28 1/2

*** Note: for military fueling valves, 6" 150# flanges have 20" face to face dimensions and 6" 300# flanges have 20-7/8" face to face dimensions.**

METRIC DIMENSIONS - MM													
DIM	END CONN.	DN32-DN40	DN50	DN65	DN80	DN100	DN150	DN200	DN250	DN300	DN350	DN400	DN600
A	150# FLGD	216	238	267	305	381	451*	645	756	864	991	1026	1575
	300# FLGD	222	251	283	324	397	473*	670	791	902	1029	1067	1619
B	150# FLGD	59-64	76	89	95	114	140	171	203	241	270	298	406
	300# FLGD	67-78	83	95	105	127	159	191	222	260	292	324	457
C	150# FLGD	108	121	52	152	191	254	322	378	432	--	529	--
ANGLE	300# FLGD	111	127	162	162	198	267	335	395	451	--	549	--
D	150# FLGD	76	98	102	102	140	152	203	289	279	--	398	--
ANGLE	300# FLGD	79	105	111	111	148	165	216	306	298	--	419	--
E	ALL	152	152	178	165	203	254	302	391	432	457	483	686
F	ALL	98	98	98	98	98	98	162	162	162	162	162	203
G	ALL	152	171	195	222	298	356	533	622	711	794	876	1321
H	ALL	254	279	279	279	305	330	356	432	457	508	508	724

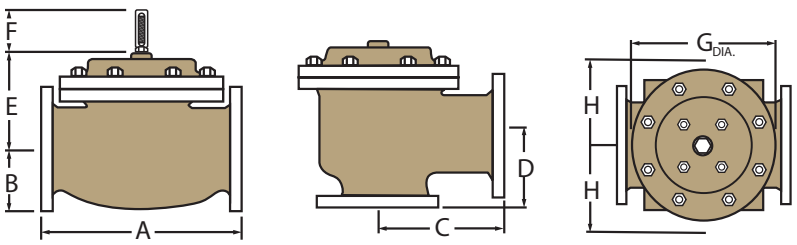
*** Note: for military fueling valves, 6" (DN150) 150# flanges have 20" (20 mm) face to face dimensions and 6" (DN150) 300# flanges have 20-7/8" (208 mm) face to face dimensions.**

For maximum efficiency, the OCV control valve should be mounted in a piping system so that the valve bonnet (cover) is in the top position. Other positions are acceptable but may not allow the valve to function to its fullest and safest potential. In particular, please consult the factory before installing 8" and larger valves, or any valves with a limit switch, in positions other than described. Space should be taken into consideration when mounting valves and their pilot systems.

A routine inspection & maintenance program should be established and conducted yearly by a qualified technician. Consult our factory @ 1-888-628-8258 for parts and service.

How to order your valve.

When ordering please provide: - Series Number - Valve Size - Globe or Angle - Pressure Class - Screwed, Flanged, Grooved - Trim Material - Adjustment Range - Pilot Options - Fluid to be Controlled - Elastomer Material - Special Needs / or Installation Requirements.



OCV World Headquarters

A. Plant 1: Machine shop, valve assembly and water valve testing. B. Administrative offices. C. Plant 2: Coating shop. D. Plant 3: Fueling valve testing. E. Valve storage.

OCV® FLUID SOLUTIONS LLC

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OCV FLUID SOLUTIONS LLC

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FIRE PROTECTION SOLUTIONS

Control Valves

OCV FLUID SOLUTIONS LLC

matholding group

Industry Leading 5 YEAR WARRANTY

Applies to All Valves Across All Lines

OCV Fluid Solutions, a subsidiary of MAT Holding Group, is a global leader in manufacturing and supplying hydraulically operated, diaphragm actuated, automatic control valves. We pride ourselves on delivering the highest quality control valves to a range of industries, including Waterworks, Fire Protection, Fueling and Commercial Plumbing. Exemplifying superior service, our expertly trained staff is available to assist with the seemingly simplest of needs to the more complex custom solutions required for challenging applications.

With a commitment to excellence, OCV guarantees state-of-the-art engineering, competitive pricing, and high quality service and professionalism. Our valves can be found in nearly every country in the world, within a variety of markets and in a multitude of applications.

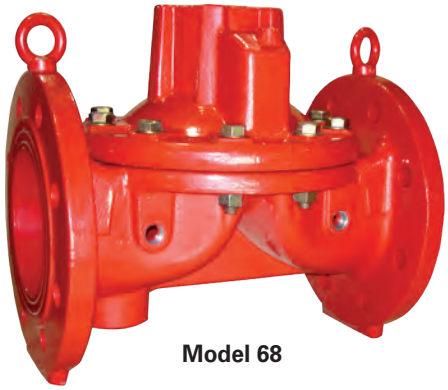
OCV Fire Protection Valves:

- Are hydraulically operated, diaphragm actuated and manufactured in sizes 1/2" to 40" in both globe and angle designs. UL Listed designs available 1/2" to 12".
- Provide reliable and comprehensive solutions for all applications – from basic fire suppression systems to the most demanding fire protection applications.
- Are designed with flexibility in mind, readily adaptable to perform numerous functions including, but not limited to pneumatic, electric and hydraulic deluge, pressure control, pressure relief, thermal expansion relief, automatic level control, and more. Custom solutions can be designed and engineered for more challenging applications.
- Provide solutions in various fire protection applications such as tunnels, storage, hangars & terminals, high-rise buildings, and more. The valves are specially designed to be utilized in hazardous offshore and onshore locations, and/or corrosive environments such as refineries, offshore platforms, power generation plants, etc., as well as applications in extreme climates.
- Are designed for use in deluge spray systems, pre-action systems, pressure regulating, water level control, hydrants and monitors (water, foam and seawater fire protection valves).
- Are manufactured in a variety of materials such as Nickel-Aluminum-Bronze, Stainless Steel, Super Duplex, Bronze, Cast Steel and Ductile Iron. Valves can be specially finished with a seawater coating and/or a high built, fusion bonded epoxy with a protective topcoat for those highly corrosive environments.

CONTENTS

Series 100

The Series 100 control valves are automatic, hydraulically actuated, direct diaphragm sealing globe/weir type valves with a proven and reliable design. These valves are designed for use in fire protection applications including deluge, pre-action, pressure relief, monitors, hydrants and are suitable for water, foam and seawater systems. The valves consist of three major components: body, cover and diaphragm assembly.



Model 68

UL Listed basic untrimmed valve models: 44, 68, 77

Model 44: Up to 230psi working pressure, threaded.
Model 68: Up to 375psi working pressure, flanged & grooved with drain port.
Model 77: Up to 230psi working pressure, flanged & grooved.

Features

- Listed & approved for use in fire protection systems by various global standards
- Quick opening: Non-slam closing operation
- Drip-tight shut off to ANSI FCI 70-2 VI seat leakage class
- Simple and reliable design
- Low lifelong maintenance costs due to straightforward design
- Easy installation and inline maintenance
- High-grade construction materials
- Exceptionally low pressure losses

Optional Features

- Remote or manual reset
- Manual, electric, hydraulic, pneumatic and combined control trims
- Explosion proof, SIL redundant solenoids & trim accessories
- Seawater and foam concentrate service

Listings and Approvals

- The valves are UL Listed under the following categories:
  - "Special Systems Water Control Valves" Deluge (VLFT) - Model 68
  - "Fire Pump Pressure Relief Valves" (QXZQ) - Models 77 & 44
- ABS Design assessment and fire test to EN ISO 6182-5:2006 - Model 68 2"- 6"
- Lloyd's type approval
- CCCf) - Model 68 DE\EL(CN)
- GOST-R
- Manufacture and conformity assessment of pressure equipment and assemblies Directive (97/23/EC / EN1074)

Consult the UL Listing Guide or contact OCV Fluid Solutions for a complete list of approved applications and valve sizes.

Specifications

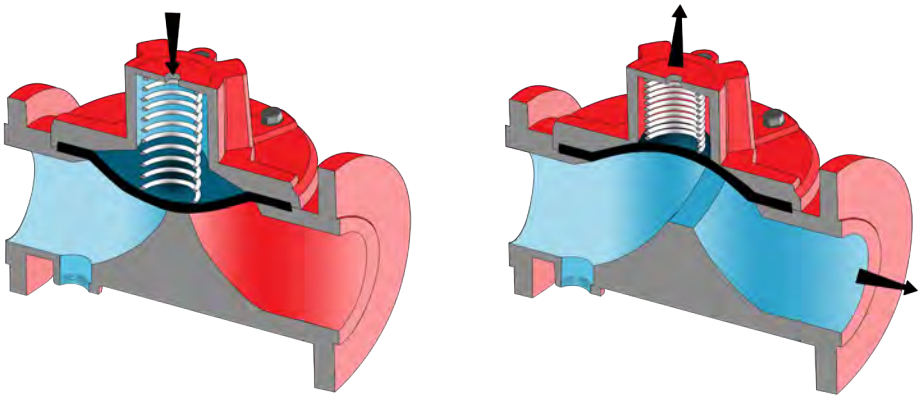
Sizes:
Straight Flow .75" - 24" / 20-600 mm
UL Listed sizes 2" - 10" / 50-250 mm
Lloyd's type approval sizes 1"- 24" / 25-600 mm
End Connections:
Flanged: (Model 68 & 77) 1"- 24"
ISO PN16 & ISO PN25
ASME/ANSI B16.42 & B16.50
Class #150 & Class #300
Additional options available upon request
Grooved: (Model 68 & 77) 2"- 8"
ASME/ANSI AWWA 606
Threaded: (Model 44) .75"- 3"
BSP/NPT
Pressure Rating (Ductile Iron at 100°F / 37.8°C):
250psi for Class #150
375psi for Class #300
Temperature Range:
Water up to 85°C / 185°F max

Materials

Body & Cover:
Ductile Iron ASTM A536
Cast Steel ASTM A216
Cast Steel ASTM A352 LCB
Stainless Steel ASTM CF8M
NAB ASTM B148 C-95800
Coating: High Built, Fusion Bonded Epoxy
Optional: UV Protection, Polyester & other coatings conforming to ISO-12944 C4, C5 & C5M
Internal Trim: Stainless Steel
Elastomers: Neoprene, NR, NBR, EPDM
Control Trim & Accesories: Brass, Bronze, Stainless Steel, Monel, NAB, Super Duplex

* Additional materials & coatings available upon request

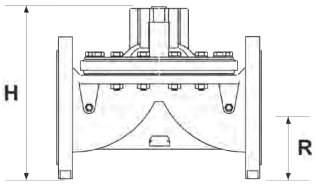
Principle of Operation

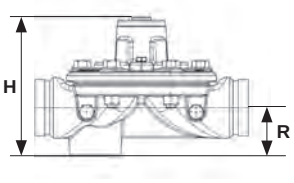


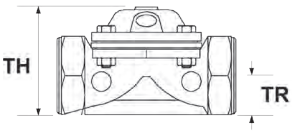
Dimensions & Weights

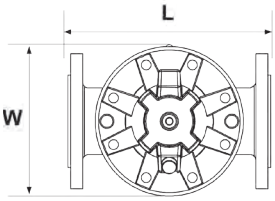
Valve Size			50 (2")		65 (2.5")		80 (3")		100 (4")		150 (6")		200 (8")		250 (10")		300 (12")	
			mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
Dimensions	68	L	243	$9^{5}/_{8}$	233	$9^{3}/_{16}$	310	$12^{3}/_{16}$	356	14	436	$17^{1}/_{8}$	530	$20^{13}/_{16}$	636	25	N/A	
		H	169	$6^{5}/_{8}$	185	$7^{5}/_{16}$	237	$9^{5}/_{16}$	263	$10^{5}/_{16}$	378	$14^{13}/_{16}$	481	$18^{7}/_{8}$	546	$21^{1}/_{2}$		
		R	85	$3^{5}/_{16}$	92.5	$3^{11}/_{16}$	105	$4^{1}/_{8}$	120	$4^{11}/_{16}$	150	$5^{7}/_{8}$	180	7	215	$8^{3}/_{8}$		
		W *	175	$6^{7}/_{8}$	185	$7^{5}/_{16}$	200	$7^{13}/_{16}$	260	$10^{3}/_{16}$	320	$12^{5}/_{8}$	400	$15^{11}/_{16}$	495	$19^{3}/_{8}$		
		Weight kg/lbs	10 / 22		14.5 / 32		30 / 66.1		38 / 83.8		75 / 165.3		123 / 271		190 / 419			
	68 Grooved	L	243	$9^{5}/_{8}$	253	10	336	$13^{3}/_{16}$	380	15	440	$17^{5}/_{16}$	556	$21^{7}/_{8}$	N/A			
		H	143	$5^{5}/_{8}$	143	$5^{5}/_{8}$	220	$8^{11}/_{16}$	229	9	337	$13^{5}/_{16}$	433	17				
		R	55	$2^{3}/_{16}$	55	$2^{3}/_{16}$	77	3	86.5	$3^{3}/_{8}$	114	$4^{1}/_{2}$	139	$5^{1}/_{2}$				
		W *	172	$6^{13}/_{16}$	172	$6^{13}/_{16}$	236	$9^{5}/_{16}$	261	$10^{5}/_{16}$	326	$12^{13}/_{16}$	400	$15^{11}/_{16}$				
		Weight kg/lbs	6.2 / 13.7		6.4 / 14		14.5 / 32		21 / 46.3		38.5 / 85		66 / 145.5					
	77	L	200	$7^{13}/_{16}$	214	$8^{3}/_{8}$	285	$11^{3}/_{16}$	305	12	390	$15^{5}/_{16}$	460	$18^{1}/_{8}$	535	21	580	$22^{13}/_{16}$
		H	166	$6^{1}/_{2}$	185	$7^{5}/_{16}$	200	$7^{13}/_{16}$	230	9	314	$12^{5}/_{16}$	400	$15^{11}/_{16}$	445	$17^{1}/_{2}$	495	$19^{3}/_{8}$
		R	85	$3^{5}/_{16}$	92.5	$3^{5}/_{8}$	105	$4^{1}/_{8}$	110	$4^{5}/_{16}$	145	$5^{11}/_{16}$	170	$6^{5}/_{8}$	205	8	240	$9^{3}/_{8}$
		W *	166	$6^{1}/_{2}$	185	$7^{5}/_{16}$	200	$7^{13}/_{16}$	230	9	300	$11^{13}/_{16}$	365	$14^{3}/_{8}$	440	$17^{5}/_{16}$	490	$19^{5}/_{16}$
		Weight kg/lbs	7.7 / 17		10.3 / 22.7		18.2 / 40.1		24 / 53		49 / 108		86 / 190		125 / 276		167 / 368	
	44	L	188	$7^{3}/_{8}$	219	$8^{5}/_{8}$	316	$12^{3}/_{8}$										
		H	115	$4^{1}/_{2}$	118	$4^{11}/_{16}$	135	$5^{5}/_{16}$										
		R	42	$1^{5}/_{8}$	46	$11^{3}/_{16}$	53	2										
		W *	112	$4^{3}/_{8}$	112	$4^{3}/_{8}$	200	$7^{13}/_{16}$										
		Weight kg/lbs	3.2 / 7		3.6 / 7.9		11 / 24											

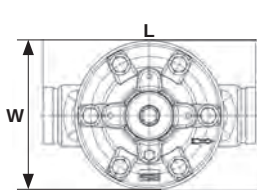
* Valve Width
** Contact OCV Fluid Solutions for information on additional valve sizes and models

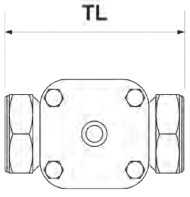












68/77

44

Series 300

The Series 300 control valves are automatic, hydraulically actuated, diaphragm operated, rigid seal globe pattern control valves. These valves are designed for use in fire protection applications, including deluge, pre-action, pressure control, monitors, hydrants and are suitable for water, foam and seawater systems. The valves consist of three major components: body, cover, and internal trim assembly.

UL Listed basic untrimmed valve models: 30, 30U, 30CU

Model 30: Up to 375psi working pressure, globe pattern, flanged, grooved & threaded.
Model 30U: Up to 375psi working pressure, globe pattern, flanged, grooved & threaded, with drain port.
Model 30CU: Up to 375psi working pressure, globe pattern, double-chamber, flanged, grooved & threaded, with drain port.

Features

- Listed & approved for use in fire protection systems by various global standards
- Quick opening; Non-slam closing operation
- Drip-tight shut off to ANSI FCI 70-2 VI seat leakage class
- Simple and reliable design
- Low lifelong maintenance due to unique frictionless internal trim design
- Easy installation and inline maintenance
- Double or single chamber
- High-grade construction materials
- Reliable pressure control from near zero flow
- Low pressure losses at high flow rates

Optional Features

- Remote or manual reset
- Manual, electric, hydraulic, pneumatic and combined control trims
- Explosion proof, SIL redundant solenoids & trim accessories
- Seawater and foam concentrate service

Listings and Approvals

- The valves are UL Listed under the following categories:
  - "Special Systems Water Control Valves" Deluge (VLFT) - Models 30U & 30CU.
  - "Fire Pump Pressure Relief Valves" (QXZQ) - Model 30.
  - "Special System Water Control Valves, Pressure Reducing and Pressure Control" (VLMT) - Models 30 & 30U
- Lloyd's type approval
- GOST-R
- Manufacture and conformity assessment of pressure equipment & assemblies Directive (97/23/EC / EN1074)

Consult the UL Listing Guide or contact OCV Fluid Solutions for a complete list of approved applications and valve sizes.

Specifications

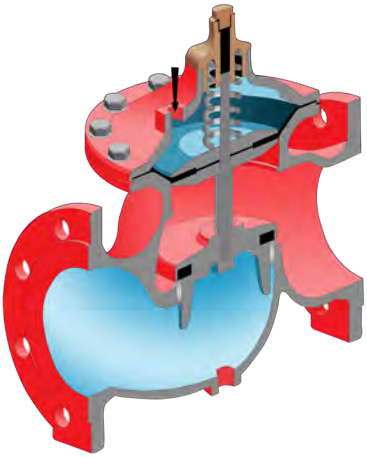
Sizes:
Straight Flow 1.5" - 40" / 40-1000 mm
UL Listed sizes 2" - 12" / 50-300 mm
Lloyd's type approved sizes 2" - 24" / 50-600 mm
End Connections:
Flanged: 1.5" - 40"
PN16 & PN25
ASME/ANSI B16.42 & B16.50
Class #150 & Class #300
Additional options available upon request
Grooved: 2" - 8"
ASME/ANSI AWWA 606
Threaded: 1.5" - 2"
BSP/NPT
Pressure Rating (Ductile Iron at 100°F / 37.8°C):
250psi for Class #150
375psi for Class #300
Temperature Range: Water up to 85°C / 185°F max

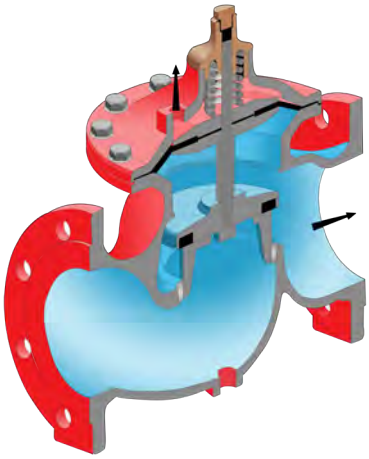
Materials

Body & Cover:
Ductile Iron ASTM A536
Cast Steel ASTM A216
Cast Steel ASTM A352 LCB
Stainless Steel ASTM CF8M
NAB ASTM B148 C-95800
Coating: High Built, Fusion Bonded Epoxy
Optional: UV Protection, Polyester & other coatings conforming to ISO-12944 C4, C5 & C5M
Internal Trim: Stainless Steel & Bronze
Elastomers: Buna-N, Viton, EPDM
Control Trim & Accesories: Brass, Stainless Steel, Monel, NAB, Super Duplex

* Additional materials & coatings available upon request

Principle of Operation

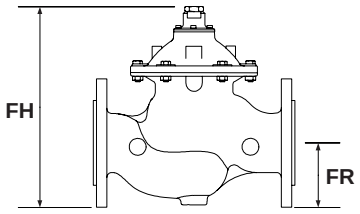


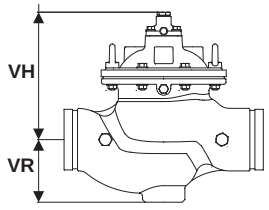


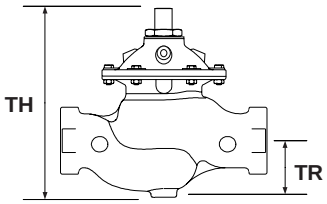
Dimensions & Weights

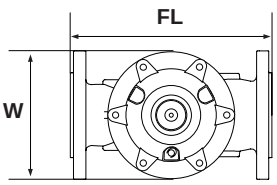
Valve Size			40 (1.5")		50 (2")		65 (2.5")		80 (3")		100 (4")		150 (6")		200 (8")		250 (10")		300 (12")	
			mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
Dimensions	30, 30U & 30CU	FL	230	$9^{1}/_{16}$	230	$9^{1}/_{16}$	292	$11^{1}/_{2}$	310	$12^{3}/_{16}$	350	$13^{3}/_{4}$	480	$18^{7}/_{8}$	600	$23^{1}/_{16}$	730	$28^{3}/_{4}$	850	$33^{7}/_{16}$
		FH	185	$7^{5}/_{16}$	185	$7^{5}/_{16}$	185	$7^{5}/_{16}$	230	$9^{1}/_{16}$	240	$8^{7}/_{16}$	330	13	390	$15^{3}/_{8}$	520	$20^{1}/_{2}$	635	25
		FR	82.5	$3^{1}/_{4}$	82.5	$3^{1}/_{4}$	92.5	$3^{5}/_{8}$	100	$3^{15}/_{16}$	110	$4^{5}/_{16}$	142.5	$5^{5}/_{8}$	172.5	$65^{3}/_{4}$	205	$8^{1}/_{16}$	230	9
		W*	153	6	170	$6^{11}/_{16}$	185	$7^{3}/_{16}$	200	$7^{7}/_{8}$	235	$9^{1}/_{4}$	330	13	415	$16^{5}/_{16}$	525	$20^{11}/_{16}$	610	24
		Weight kg/lbs	12 / 26		12 / 26		13 / 29		22 / 49		37 / 82		80 / 176		157 / 346		245 / 540		405 / 893	
	30 & 30U Grooved	VL	N/A		215	$8^{1}/_{2}$	280	11	351	$13^{13}/_{16}$	376	$14^{13}/_{16}$	521	$20^{1}/_{2}$	702	$27^{5}/_{8}$				
		VH			173	$6^{13}/_{16}$	173	$6^{13}/_{16}$	228	9	240	$9^{7}/_{16}$	330	13	393	$15^{1}/_{2}$				
		VR			78	3	75	3	106	$4^{3}/_{16}$	118	$4^{5}/_{8}$	147.5	$5^{13}/_{16}$	175	$6^{13}/_{16}$				
		VW			128	5	130	$5^{13}/_{16}$	197	$7^{3}/_{7}$	236	$9^{3}/_{8}$	331	13	412	$16^{3}/_{16}$				
		Weight kg/lbs			6.5 / 14.4		7.8 / 17.2		15.2 / 33.4		26.5 / 58.5		58.2 / 128.4		137.3 / 302.7					
	30 & 30U Threaded	TL	215	$8^{7}/_{16}$	215	$8^{7}/_{8}$														
		TH	185	$7^{5}/_{16}$	185	$7^{5}/_{16}$														
		TR	62	$2^{3}/_{8}$	62	$2^{3}/_{8}$														
		TW	129	5	129	5														
		Weight kg/lbs	7 / 15		7 / 15															

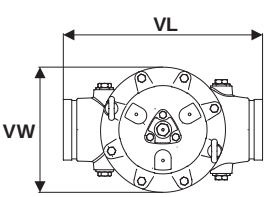
* Valve Width
** Contact OCV Fluid Solutions for information on additional valve sizes and models

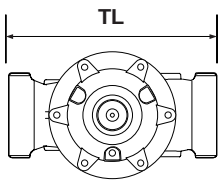












Series 65

The series 65 control valves are automatic, hydraulically actuated, diaphragm operated, rigid seal globe and angle pattern valves. These valves are designed for use in fire protection applications, including deluge, pressure control, water, foam and seawater fire protection systems. The valves consist of three major components: the body, the bonnet and the internal diaphragm assembly.

UL Listed basic untrimmed valve model: 65FC

Features

- Listed & approved for use in fire protection systems by various global standards
- Quick opening; Non-slam closing operation
- Drip-tight shut off to ANSI FCI 70-2 VI seat leakage class
- Simple and reliable construction
- Easy installation and maintenance
- High-grade construction materials
- Reliable pressure control
- Low pressure losses at high flow rates

Optional Features

- Local or remote reset
- Electric, pneumatic and electro-pneumatic control trims
- Explosion proof solenoids and trim accessories
- Seawater and foam concentrate services

Listings and Approvals

- The valves are UL Listed under the following categories:
  - "Fire Pump Relief Valves" (QXZQ)
  - "Special Systems Water Control Valves" Deluge (VLFT)
  - "Special Systems Water Control Valves, Pressure Reducing and Pressure Control" (VLMT)
- The valves are FM approved under the following categories:
  - "Water Pressure Reg Valves" (1363)
  - "Water Pressure Relief Valves" (1361)
- ABS type approval
- Fire tested to EN ISO 19921

Consult the UL Listing Guide, FM Approval Guide, or contact OCV Fluid Solutions for a complete list of approved applications and valve sizes.

Specifications

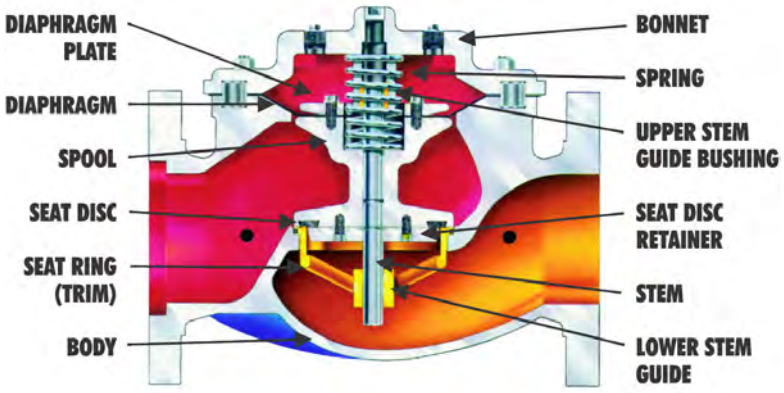
Sizes:
Globe: 1.25" - 24" / 32-600 mm
Angle: 1.25" - 16" / 32-400 mm
End Connections:
Flanged:
ISO PN16 & PN25
ASME/ANSI B16.42 & B16.50
Class #150 & Class #300
Grooved:
ASME/ANSI AWWA 606
Threaded:
BSP/NPT
Pressure Rating (Ductile Iron at 100°F / 37.8°C):
250psi for Class #150 & Class #300
Temperature Range:
Water up to 110°C / 230°F max

Materials

Body & Cover:
Ductile Iron ASTM A536
Cast Steel ASTM A216
Stainless Steel ASTM CF8M
NAB ASTM B148 C-95800
Coating: High Built, Fusion Bonded Epoxy
Optional: Seawater Coating
Main Valve Trim: Stainless Steel & Bronze
Elastomers: EPDM, BUNA-N, Viton
Control Trim & Accessories: Bronze/Brass, Stainless Steel, Monel, NAB

* Additional materials & coatings available upon request

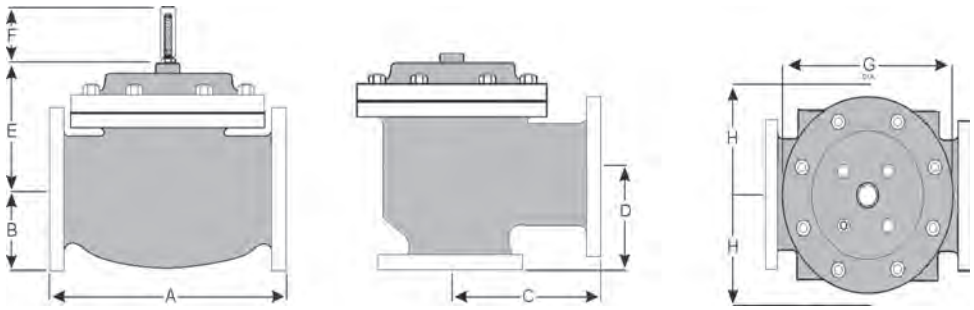
Principle of Operation



Dimensions

Dimensions	End Connection	1.25 "- 1.5"	2"	2.5"	3"	4"	6"	8"	10"	12"	14"	16"	24"
A	THREADED	8 3/4	9 7/8	10 1/2	13	--	--	--	--	--	--	--	--
	GROOVED	8 3/4	9 7/8	10 1/2	13	5 1/4	20	--	--	--	--	--	--
	150# Flanged	8 1/2	9 3/8	10 1/2	12	15	17 3/4	25 3/8	29 3/4	34	39	40 3/8	62
	300# Flanged	8 3/4	9 7/8	11 1/8	12 3/4	15 5/8	18 5/8	26 3/8	31 1/8	35 1/2	40 1/2	42	63 3/4
B	THREADED	1 7/16	1 11/16	1 7/8	2 1/4	--	--	--	--	--	--	--	--
	GROOVED	1*	1 3/16	1 7/16	1 3/4	2 1/4	3 5/16	--	--	--	--	--	--
	150# Flanged	2 5/16 - 2 1/2	3	3 1/2	3 3/4	4 1/2	5 1/2	6 3/4	8	9 1/2	10 5/8	11 3/4	16
	300# Flanged	2 5/8 - 3 1/16	3 1/4	3 3/4	4 1/8	5	6 1/4	7 1/2	8 3/4	10 1/4	11 1/2	12 3/4	18
C	THREADED	4 3/8	4 3/4	6	6 1/2	--	--	--	--	--	--	--	--
	GROOVED	4 3/8*	4 3/4	6	6 1/2	7 5/8	--	--	--	--	--	--	--
	150# Flanged	4 1/4	4 3/4	6	6	7 1/2	10	12 11/16	14 7/8	17	--	20 13/16	--
	300# Flanged	4 3/8	5	6 3/8	6 3/8	7 13/16	10 1/2	13 3/16	15 9/16	17 3/4	--	21 5/8	--
D	THREADED	3 1/8	3 7/8	4	4 1/2	--	--	--	--	--	--	--	--
	GROOVED	3 1/8*	3 7/8	4	4 1/2	5 5/8	--	--	--	--	--	--	--
	150# Flanged	3	3 7/8	4	4	5 1/2	6	8	11 3/8	11	--	15 11/16	--
	300# Flanged	3 1/8	4 1/8	4 3/8	4 3/8	5 13/16	6 1/2	8 1/2	12 1/16	11 3/4	--	16 1/2	--
E	All	6	6	7	6 1/2	8	10	11 7/8	15 3/8	17	18	19	27
F	All	3 7/8	3 7/8	3 7/8	3 7/8	3 7/8	3 7/8	6 3/8	6 3/8	6 3/8	6 3/8	6 3/8	8
G	All	6	6 3/4	7 11/16	8 3/4	11 3/4	14	21	24 1/2	31 1/4	31 1/4	34 1/2	52
H	All	10	11	11	11	12	13	14	17	18	20	20	28 1/2

*Grooved End not Available in 1 1/4"



DE\HM

Hydraulically Actuated Deluge Valve

Hydraulically controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the hydraulic pressure drops in a pressurized pilot line, limited to 7m above the valve (for higher pilot lines, see DE\HRV model sheet). An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure

Applicable For:
- Deluge
- Single-interlock pre-action
- Water, seawater, and foam

Also available with manual reset DE\HM-MR.

DE\HRV

Hydraulically Actuated, Anti-Columning Deluge Valve

Hydraulically actuated, pilot controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the hydraulic pressure drops in a pressurized pilot line, tripping a hydraulic relay. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure
- Optional pressure reducing function

Applicable For:
- Deluge
- Single-interlock pre-action
- Water, seawater, and foam

Also available with manual reset DE\HRV-MR.

DE\PORV

Pneumatically Actuated Deluge Valve

Pneumatically actuated, pilot controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the pneumatic pressure drops in a gas pressurized pilot line, tripping a hydraulic relay. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure
- Optional pressure reducing function

Applicable For:
- Deluge
- Dry pipe
- Non or Single-interlock pre-action
- Water, seawater, and foam

Also available with manual reset DE\PORV-MR.

DE\EL

Electrically Actuated, Remote Reset Deluge Valve 2/2 Solenoid

Electrically controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when a 2w solenoid valve is energized. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure
- Optional pressure reducing function

Applicable For:
- Deluge
- Single or double-interlock pre-action
- Water, seawater, and foam

Also available with manual reset DE\EL-MR.

DE\RC

Electrically Actuated, Remote Reset Deluge Valve 3/2 Solenoid

Electrically controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when a 3w solenoid valve is energized. It closes drip tight when the solenoid valve is de-energized. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure
- Optional pressure reducing function

Applicable For:
- Deluge
- Single or double-interlock pre-action
- Water, seawater, and foam

Also available with manual reset DE\RC-MR.

DE\RCL

Electrically Actuated, Manual Reset Deluge Valve

Electrically controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when a 3w solenoid valve is energized. The valve must be manually reset following automatic actuation using the RCL relay's knob. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure
- Optional pressure reducing function

Applicable For:
- Deluge
- Single or double-interlock pre-action
- Water, seawater, and foam

DELUGE

DE\EL(CN)

Electrically Actuated, Manual Reset Deluge Valve (Chinese Standard)

Electrically controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when a 2w solenoid valve is energized. The valve must be manually reset following automatic actuation. An emergency manual release valve is fitted as standard.

Features:
- Chinese standard certified
- Simple structure
- Manual reset
- Built-in downstream drain valve

Applicable For:
- Deluge
- Single or Double-interlock pre-action
- Water, seawater, and foam

DE\EL\HRV

Electrically or Hydraulically Actuated, Anti-Columning Deluge Valve

Electrically or hydraulically, pilot controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the hydraulic pressure drops in a water pressurized pilot line, releasing a hydraulic relay, or by an electric command. An emergency manual release valve is fitted as standard.

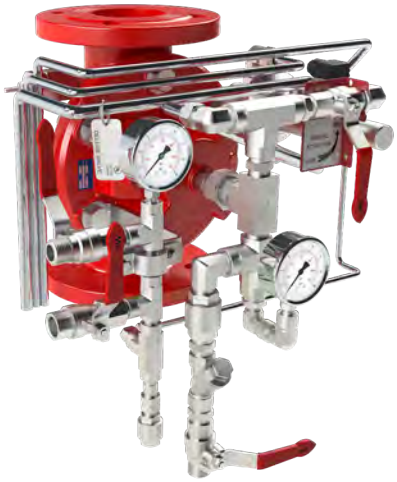
Features:
- UL Listed
- Simple structure
- Optional pressure reducing function

Applicable For:
- Deluge
- Single-interlock pre-action
- Water, seawater, and foam

Also available with manual reset DE\EL\HRV-MR.

DE\EL\PORV

Electrically or Pneumatically Actuated Deluge Valve

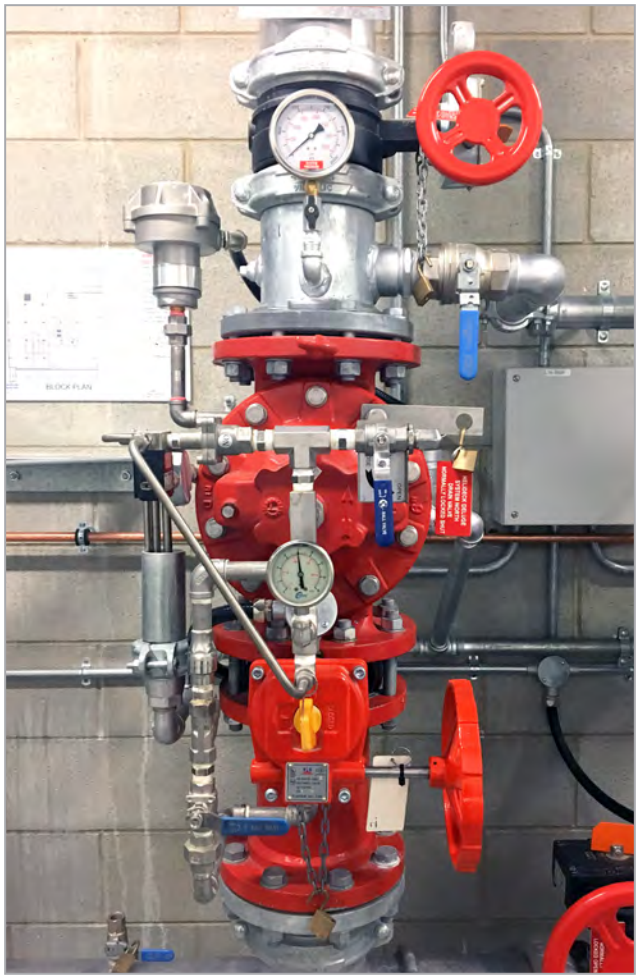


Electrically or pneumatically, pilot controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the pneumatic pressure drops in a gas pressurized pilot line, releasing a hydraulic relay, or by an electric command. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure
- Optional pressure reducing function

Applicable For:
- Deluge
- Dry pipe
- Single-interlock pre-action
- Water, seawater, and foam

Also available with manual reset DE\EL\PORV-MR.



DE\EL\PORV-DN

Double-Interlock Pre-Action, Electro-Pneumatic Release System

Electrically and pneumatically, pilot controlled, double-interlock pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the pressure drops in a gas pressurized supervisory pilot line, sensed by the relay valve, and the solenoid valve is energized. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure
- Optional pressure reducing function

Applicable For:
- Double-interlock pre-action
- Water, seawater, and foam

Also available with manual reset DE\EL\PORV-DN-MR.

DE\EL\PORV\PR-DN

Double-Interlock Pre-Action, Pressure Reducing, Electro-Pneumatic Release System

Electrically and pneumatically, pilot controlled, double-interlock pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the pressure drops in a gas pressurized supervisory pilot line, sensed by the relay valve, and the solenoid valve is energized. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure

Applicable For:
- Double-interlock pre-action
- Water, seawater, and foam

Also available with manual reset DE\EL\PORV\PR-DN-MR.

DE\HRV\PR

Hydraulically Actuated, Anti-Columning, Pressure Reducing Deluge Valve

Hydraulically actuated, pilot controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the hydraulic pressure drops in a pressurized pilot line, tripping a hydraulic relay. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure
- Easy installation and maintenance

Applicable For:
- Deluge
- Single-interlock pre-action
- Water, seawater, and foam

DE\HRV\PR-MR

Hydraulically Actuated Anti-Columning, Pressure Reducing, Manual Reset Deluge Valve

Hydraulically actuated, pilot controlled deluge/pre-action valve, actuated by the pipeline pressure.The valve is closed in its normal, set position and opens when the hydraulic pressure drops in a pressurized pilot line, tripping a hydraulic relay. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. The valve must be manually reset following automatic actuation. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure

Applicable For:
- Deluge
- Single-interlock pre-action
- Water, seawater, and foam

DE\PORV\PR

Pneumatically Actuated, Pressure Reducing Deluge Valve

Pneumatically actuated, pilot controlled deluge/pre-action valve, actuated by the pipeline pressure.The valve is closed in its normal, set position and opens when the pneumatic pressure drops in a gas pressurized pilot line, tripping a hydraulic relay. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure
- Easy installation and maintenance

Applicable For:
- Deluge
- Dry pipe
- Non or Single-interlock pre-action
- Water, seawater, and foam

DELUGE PRESSURE REDUCING

DE\PORV\PR-MR

Pneumatically Actuated, Pressure Reducing, Manual Reset Deluge Valve

Pneumatically actuated, pilot controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the pneumatic pressure drops in a gas pressurized pilot line, tripping a hydraulic relay. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. The valve must be manually reset following automatic actuation. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure

Applicable For:
- Deluge
- Dry pipe
- Non or Single-interlock pre-action
- Water, seawater and foam

DE\EL\PR

Electrically Actuated, Pressure Reducing, Remote Reset Deluge Valve 2/2 Solenoid

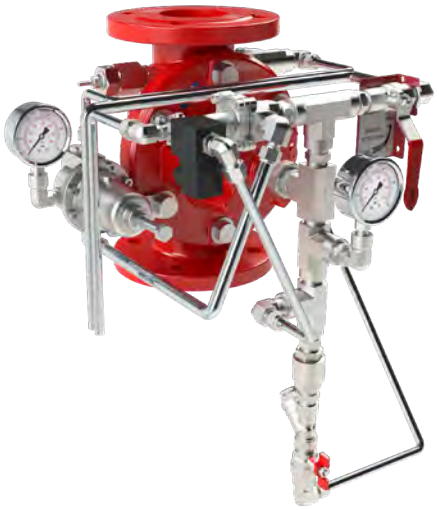
Electrically controlled deluge/pre-action pressure reducing valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when a 2w solenoid valve is energized. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. It closes drip tight when the solenoid valve is de-energized. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure
- Easy installation and maintenance

Applicable For:
- Deluge
- Single or double-interlock pre-action
- Water, seawater, and foam

DE\RC\PR

Electrically Actuated, Pressure Reducing, Remote Reset Deluge Valve 3/2 Solenoid



Electrically controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when a 3w solenoid valve is energized. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. It closes drip tight when the solenoid valve is de-energized. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure
- Easy installation and maintenance

Applicable For:
- Deluge
- Single or double-interlock pre-action
- Water, seawater, and foam

DE\EL\HRV\PR

Electrically or Hydraulically Actuated, Anti-Columning, Pressure Reducing Deluge Valve

Electrically or hydraulically, pilot controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the hydraulic pressure drops in a water pressurized pilot line, releasing a hydraulic relay, or by an electric command. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure
- Easy installation and maintenance

Applicable For:
- Deluge
- Single or double-interlock pre-action
- Water, seawater, and foam

DE\EL\HRV\PR-MR

Electrically or Hydraulically Actuated, Anti-Columning, Pressure Reducing, Manual Reset Deluge Valve

Electrically or hydraulically, pilot controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the hydraulic pressure drops in a water pressurized pilot line, releasing a hydraulic relay, or by an electric command. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. The valve must be manually reset following automatic actuation. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure

Applicable For:
- Deluge
- Single or double-interlock pre-action
- Water, seawater, and foam

DE\EL\PORV\PR

Electrically or Pneumatically Actuated, Pressure Reducing Deluge Valve

Electrically or pneumatically, pilot controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the pneumatic pressure drops in a gas pressurized pilot line, releasing a hydraulic relay, or by an electric command. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure
- Easy installation and maintenance

Applicable For:
- Deluge
- Single or double-interlock pre-action
- Water, seawater, and foam

DELUGE PRESSURE REDUCING

DE\EL\PORV\PR-MR

Electrically or Pneumatically Actuated, Pressure Reducing, Manual Reset Deluge Valve

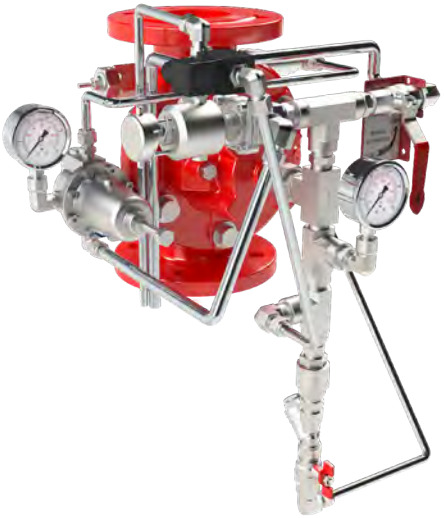
Electrically or pneumatically, pilot controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the pneumatic pressure drops in a gas pressurized pilot line, releasing a hydraulic relay, or by an electric command. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. The valve must be manually reset following automatic actuation. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure

Applicable For:
- Deluge
- Single or double-interlock pre-action
- Water, seawater, and foam

DE\RCL\PR

Electrically Actuated, Pressure Reducing, Manual Reset Deluge Valve 3/2 Solenoid



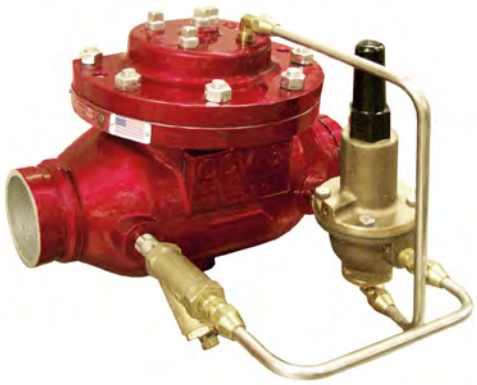
Electrically controlled deluge/pre-action valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when a 3w solenoid valve is energized. When tripped, the valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. The valve must be manually reset following automatic actuation using the RCL relay's knob. An emergency manual release valve is fitted as standard.

Features:
- UL Listed
- Simple structure
- Easy installation and maintenance

Applicable For:
- Deluge
- Single or double-interlock pre-action
- Water, seawater, and foam

129 FC

Pressure Reducing Valve



An automatic, pilot controlled, pressure reducing valve, actuated by the pipeline pressure. The valve regulates to a steady, preset downstream pressure, regardless of upstream pressure or flow rate fluctuations. In case of excessive downstream pressure, the valve closes drip tight.

Features:
- Maintains constant discharge pressure despite variations in demand or inlet pressure
- Class VI drip tight closure
- UL / ULC Listed for pressure control service in sizes 1.5"- 8" globe or angle configuration
- UL Listed for reduced port sizes: 3"x 2", 4"x 3", 6"x 4", 8"x 6", 10"x 8"
- Horizontal or vertical mounting in all sizes
- Grooved end configuration available on 1.5"- 6"
- Threaded end configuration available on 1.5", 2", 2.5" & 3"
- Factory tested

Applicable For: Water, seawater, and foam

PS\UL

Pressure Relief Valve (Models 44, 77)

An automatic, pilot controlled, pressure relief valve, actuated by the pipeline pressure. The valve modulates to maintain a steady, predetermined pressure in the network. Should the upstream pressure exceed the required set point, the valve opens, releasing the excessive pressure. When the pressure falls below the set value, the valve closes drip tight.

Features:
- Simple field adjustable pressure setting; no special tools or system downtime; for relief pressures up to 175psi
- Superior design featuring low pressure losses at high flow rates
- Low lifelong maintenance costs
- Comprised of 3 main parts
- Soft seat for drip tight closure
- Easily maintained without removal from the line

Applicable For: Water, seawater, and foam

PS\UL

Pressure Relief Valve (Model 30)

An automatic, pilot controlled, pressure relief valve, actuated by the pipeline pressure. The valve modulates to maintain a steady, predetermined pressure in the network. Should the upstream pressure exceed the required set point, the valve opens, releasing the excessive pressure. When the pressure falls below the set value, the valve closes drip tight.

Features:
- Simple field adjustable pressure setting; no special tools or system downtime
- Superior design featuring low pressure losses at high flow rates
- Low lifelong maintenance costs
- Protects the system by accurately limiting maximum pressure
- Stainless Steel seat as standard

Applicable For: Water, seawater, and foam

PR\UL

Pressure Reducing Valve (Model 30)

An automatic, pilot controlled, pressure reducing valve actutated by the pipeline pressure. The valve regulates to a steady, preset downstream pressure regardless of upstream pressure or flow rate fluctuations. In case of excessive downstream pressure, the valve closes drip tight.

Features:

- Simple field adjustable pressure setting; no special tools or system downtime
- Superior design featuring low pressure losses at high flow rates
- Low lifelong maintenance costs
- High flows & working pressures (PN25/375psi)
- Stable regulation from near zero flow to maximum design flow
- Regulates at low flow & high pressure differential without bypass or U/V port design
- Stainless Steel seat as standard

Applicable For: Water, seawater, and foam

108FC (Globe)/108FCA (Angle)

Fire Pump Relief Valve

An automatic, pilot controlled, pressure relief valve actuated by the pipeline pressure. The valve modulates to maintain a steady, predetermined pressure in the network. Should the upstream pressure exceed the required set point, the valve opens, releasing the excessive pressure. When the pressure falls below the set value, the valve closes drip tight.

Features:

- Limits maximum pump discharge pressure
- Opens quickly; maintains pressure within close limits
- Adjustable: 60-180psi or 100-300psi
- Simple field adjustable pressure setting; no special tools or system downtime
- Factory tested & preset to requirements
- Sizes 3" (DN80) - 8" (DN200), globe and angle pattern
- Wide range of materials available (108FCA)

Applicable For: Water, seawater, and foam

108FPS

Pump Suction Control Valve

This valve is used to prevent the fire pump from outdrawing the available supply. It protects the pump suction supply from damage associated with low pressure and assures adequate supply pressure to the fire system components.

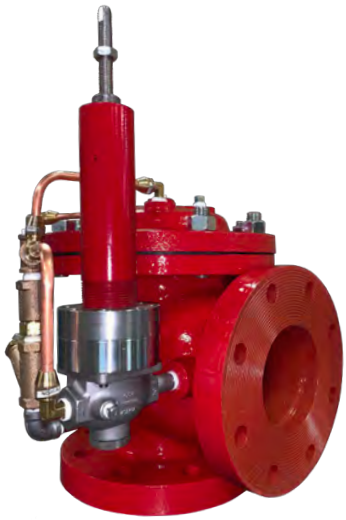
Features:

- Maintains minimum pump suction pressure
- Suction pressure is adjustable with single screw
- Adjustable: 5-30psi range
- Sizes 3" (DN80) - 8" (DN200), globe & angle
- Pilot operated main valve
- Maintain without removal from the line
- Adjustable opening speed
- Factory tested & preset to requirements

Applicable For: Water, seawater, and foam

108-2HP (Globe)/108-2HPA (Angle)

Fire Pump High Pressure Relief Valve



This valve automatically relieves excess fire pump discharge pressure to prevent the pressure from exceeding the rating of the fire system components. It is specifically designed for systems where the relief set point must be higher than the pressures allowed for UL listed / FM approved valves.

Features:
- Limits maximum pump discharge pressure
- Opens quickly; maintains pressure within close limits
- Adjustable 13.7 bar - 51.0 bar
- Pilot operated main valve
- Pressure setting is adjustable with single screw
- Factory tested and preset to requirements
- Sizes 3″ (DN80) - 8″ (DN200), globe and angle pattern
- ANSI Flanged Class #300, and 300 inlet x 150 outlet
- Wide range of materials available (108-2HPA)

Applicable For:
- Water, seawater, and foam

1330FC

Thermal Expansion Relief Valve

This is a pressure relief valve, installed downstream of a pressure reducing valve and is located in the distribution piping in a fire protection system. If the pressure in the distribution piping rises above the relief valve's set point, the 1330FC opens and relieves the excess pressure, thus preventing damage.

Features:
- UL Listed
- Normally closed, increasing inlet pressure opens valve
- UL listed spring range of 20-175psi
- Local sense line (self contained sense loop)
- Simple adjustment
- All parts replaceable while valve is installed
- Rubber to metal seat for positive shutoff
- Can be installed vertically or horizontally
- Sizes: 0.5″, 0.75″, 1″

Applicable For:
- Water, seawater, and foam

ZP\EL

Foam Concentrate, Electrically Actuated Control Valve

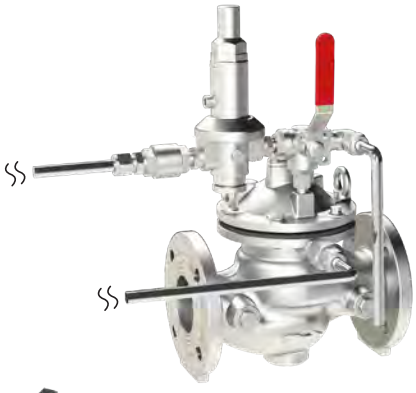
This valve is installed downstream of the foam concentrate tank and is closed in its normal, set position by the master's main line pressure. When the valve´s solenoid is actuated, it allows the valve to be forced open by the upstream pressure of its master valve's water mains. This allows the foam concentrate valve to open even with zero upstream line pressure, ensuring fail safe supply of foam concentrate through the foam proportioner, downstream of the main master valve.

Features:
- Electrically select either water only or foam operation through the system
- Full stainless steel construction
- Double-chamber zero pressure operated by deluge water mains
- Electric remote actuation and remote reset, manual emergency actuation

Applicable For:
- Control of water & seawater, AFFF concentrate foam systems

ZP\HM

Foam Concentrate, Hydraulic Pilot Actuated Control Valve



This valve is installed downstream of the foam concentrate tank and is closed in its normal, set position by the master's main line pressure. The valve is forced open through the pilot valve by the upstream pressure of its master valve's water mains. This allows the foam concentrate valve to open even with zero upstream line pressure, ensuring fail safe supply of foam concentrate through the foam proportioner, downstream of the main master valve.

Features:
- Full stainless steel construction
- Double-chamber, zero pressure, fail safe operation by its master valve's water mains
- Electric remote actuation and remote reset including local manual emergency actuation

Applicable For:
- Control of water & seawater, AFFF concentrate foam systems

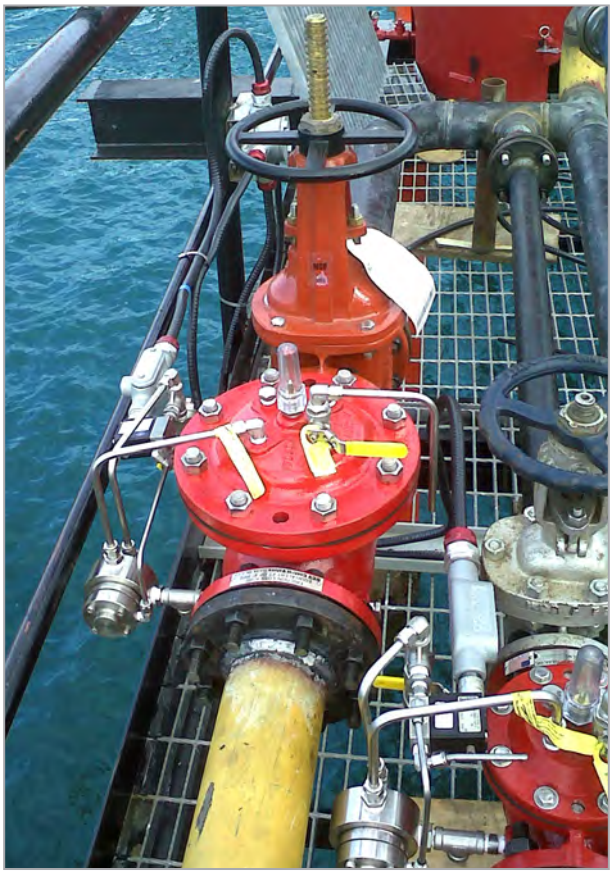
ZPVH

Foam Concentrate, Hydraulically Actuated Control Valve

This valve is installed downstream of the foam concentrate holding tank and is closed in its normal, set position. The valve is forced open by its master valve's downstream pressure rise when it opens. This allows the foam concentrate valve to open even with zero upstream line pressure, ensuring fail safe supply of foam concentrate through the foam proportioner downstream of the main master valve.

Features:
- Full stainless steel construction
- Double-chamber, zero pressure, fail safe operation by its master valve's water mains
- Electric remote actuation and remote reset including local manual emergency actuation

Applicable For:
- Control of water & seawater, AFFF concentrate foam systems



MO\M

Manually Actuated Monitor Valve

Manually controlled hydraulic monitor valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when an activation selector valve is turned to the open position. It gradually closes drip tight when the selector valve is turned back to the closed position, to prevent water hammer damage.

Features:
- Effortless open/close actuation
- Fast response
- Simple and reliable design
- Easy installation and maintenance

Applicable For:
- Water, seawater, and foam

MO\RC

Lloyd's Register

Remote Hydraulic/Pneumatic Actuated Monitor Valve

Manually controlled monitor valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when the activation ball valve is turned to the open position or when a remote activation ball valve is turned to the open position. It gradually closes drip tight when the selector valve is turned back to the closed position, reducing the risk of water hammer damage.

Features:
- Fast response, even for long control lines & changing typography
- Simple and reliable design
- Easy installation and maintenance

Applicable For:
- Water, seawater, and foam

MO\EL

Lloyd's Register

Electrically Actuated Monitor Valve

Electrically or manually controlled hydraulic monitor valve, actuated by the pipeline pressure. The valve is closed in its normal, set position and opens when an activation ball valve is turned to the open position or when a solenoid valve is energized. It gradually closes drip tight when the ball valve is turned back to the closed position or the solenoid valve is de-energized, reducing the risk of water hammer damage.

Features:
- Low power electric actuation
- Simple and reliable design
- Easy installation and maintenance

Applicable For:
- Water, seawater, and foam

HY

Hydrant Valve

Manually controlled hydrant valve, actuated by the pipeline pressure. When the activation ball valve is turned to the open position, it opens gradually to prevent a sudden pressure rise in the hose and closes drip tight when the selector valve is turned back to the closed position, reducing the risk of water hammer damage.

Features:
- Effortless open/close actuation
- Controlled response
- Simple and reliable design
- Easy installation and maintenance

Applicable For:
- Water and seawater

HY\PR1

Lloyd's Register

Pressure Reducing Hydrant Valve

Manually controlled, pressure reducing hydrant valve, actuated by the pipeline pressure. When the activation ball valve is turned to the open position, it opens gradually to prevent a sudden pressure rise in the hose up to a predefined set point and closes drip tight when the selector valve is turned back to the closed position, reducing the risk of water hammer damage.

Features:
- Simple field adjustable pressure setting, requiring no special tools and no system downtime
- Effortless open/close actuation
- Controlled response
- Simple and reliable design
- Easy installation and maintenance

Applicable For:
- Water and seawater

FL

Modulating Float Control Valve

An automatic, float pilot water level control valve actuated by the pipeline pressure. The valve modulates to maintain a steady, pre-determined level in the reservoir and will keep a drip tight close position in case the level is higher than the float pilot location.

Features:
- Accurate level control
- Simple and reliable design
- Easy installation and maintenance

Applicable For:
- Water and seawater

FLEL

Electric Float Control Valve

An automatic, solenoid controlled valve actuated by the pipeline pressure. The valve will open at low level by an electric command from a float positioned in the tank/reservoir. When the level reaches its high set value, the valve will close drip tight.

Features:
- Accurate differential level control
- Low power electric actuation
- Fast response
- Simple and reliable design
- Easy installation and maintenance

Applicable For:
- Water and seawater

FLDI

Differential Float Pilot Control Valve

An automatic, pilot controlled, level control valve, actuated by the pipeline pressure. The valve closes when the water rises to a determined maximum level and opens when the water level drops to the preset minimum point. The differential between opening and closing levels is adjustable.

Features:
- Accurate differential level control
- Adjustable differential
- Fast response
- Simple and reliable design
- Easy installation and maintenance

Applicable For:
- Water and seawater

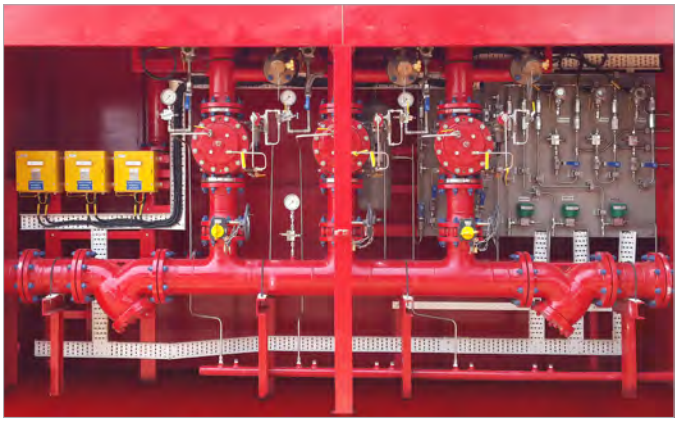
AL

Altitude Pilot Control Valve

An automatic, pilot controlled valve, actuated by the pipeline pressure. The valve is actuated by a highly sensitive altitude pilot, located outside the tank. The pilot opens or closes the valve in response to the static pressure. It allows for differential adjustments between the maximum and minimum level.

Features:
- Accurate differential level control
- Fast response
- Easy access - no float is located in the tank\reservoir
- Simple and reliable design
- Easy installation and maintenance

Applicable For:
- Water and seawater



DMR
Latching Manual Reset Device

A spring-loaded, latching manual reset device, applicable for service on deluge and pre-action valve trims. In the "Ready" position, the DMR prevents draining of the deluge valve's control chamber, keeping the deluge valve closed. Once the deluge valve is actuated, the DMR shifts to its "Latched-Open" position, allowing draining of the control chamber and latching open the deluge valve. Manual resetting is accomplished by holding the DMR's knob until the deluge valve has closed.

Features:
- UL Listed (when installed on OCV Fluid Solutions listed models)
- Available in Brass (Standard) and Stainless Steel 316
- Pressure rating: PN25 / 375psi
- Connections: 0.5" NPT female

66-2UL HRV/PORV
Hydraulic/Pneumatic Relay

Diaphragm actuated, spring-loaded relay valve, applicable for service on deluge and pre-action valve trims. The relay will vent or pressurize the hydraulic valve's control chamber, in response to hydraulic or pneumatic pressure. It is factory set to change position at 2 bars with pneumatic pilot lines and 4 bars with hydraulic pilot lines. If needed, the relay's set point can be easily adjusted onsite and in-line.

Features:
- UL Listed (when installed on OCV Fluid Solutions listed models)
- Available in Brass (Standard) and Stainless Steel 316
- Pressure rating: PN25 / 375psi
- Can be used with any size hydraulic control valve
- Easy to adjust
- Simple design and maximum dependability
- Broad setting range

RC 28-200
2-Way Relay

A 2-Way, hydraulically operated, diaphragm actuated relay valve, applicable for service on deluge and pre-action valve trims. The RC 28-200 is designed to meet the requirements of hydraulic valve control trims, particularly when a fast reaction is required. When the pressure command is removed, the pressure in the RC 28-200 relay drops, causing it to open and allowing the water to drain from the deluge valve's control chamber.

Features:
- UL Listed (when installed on OCV Fluid Solutions listed models)
- Extremely large water passages enable fast response
- Tough and durable construction

RCL 28-2UL

2-Way Relay, Latching Manual Reset Device

A 2-Way, spring-loaded, latching manual reset device, applicable for service on deluge and pre-action valve trims. In its "Ready" position, it prevents draining of the deluge valve's control chamber, keeping the deluge valve closed. Once the deluge valve is actuated, the RCL 28-2UL shifts to its "Latched Open" position, allowing draining of the control chamber and latching open the deluge valve. Manual resetting is accomplished by rotating the RCL 28-2UL's knob.

Features:
- UL Listed (when installed on OCV Fluid Solutions listed models)
- Available in Stainless Steel 316
- Pressure rating: PN25 / 375psi
- Extremely large water passages enable fast response
- Tough and durable construction

CXPR

Pressure Reducing 2-Way Pilot Valve

A 2-Way, diaphragm actuated, spring-loaded pressure reducing pilot valve, applicable for service on pressure reducing, deluge and pre-action valve trims. The valve modulates to maintain a steady, pre-set downstream pressure, regardless of upstream pressure or flow rate fluctuations. As downstream pressure falls below the set point, it opens a full passage between its "In" and "Out" ports, relieving the valve's control chamber to the downstream and allowing the valve to open. As downstream pressure rises above the set point, the CXPR throttles, restricting the flow out of the valve's control chamber, keeping its position or closing the valve (if necessary). It is factory set to 4 bars. If needed, the pilot's set point can be easily adjusted onsite and in-line.

Features:
- UL Listed (when installed on OCV Fluid Solutions listed models)
- 2-way pilot valve for high accuracy pressure reducing applications
- Wide regulation range: a single spring is used for setting range of 3-19 bar / 45-275psi
- Superb accuracy and repeatability
- Integral stainless steel needle valve - highly accurate and simplifies the control trim
- No internal sealing allows for maximum dependability
- Easy to adjust

CXPS

Pressure Sustaining / Relief 2-Way Pilot Valve

A 2-Way, diaphragm actuated, spring-loaded, pressure sustaining/relief pilot valve, applicable for service on pressure sustaining/relief valve trims. It modulates to maintain a steady, pre-set pressure, upstream of the valve's location. As upstream pressure rises above the set value, the CXPS opens to allow water flow between its "COM" and "OUT" ports, relieving the water from the valve's control chamber and causing the valve to open. As upstream pressure falls below the set value, the CXPS throttles, restricting the flow out of the valve's control chamber, limiting the valve's opening or causing it to close (if necessary). It is factory set to 4 bars. If needed, the pilot's set point can be easily adjusted onsite and in-line.

Features:
- UL Listed (when installed on OCV Fluid Solutions listed models)
- 2-way pilot valve for high accuracy pressure sustaining/relief applications
- Integral stainless steel needle valve - highly accurate and simplifies the control trim
- Wide regulation range: a single spring is used for setting range of 3-19 bar / 45-275psi
- Easy to adjust

68-500

Pressure Sustaining / Relief 2-Way Pilot Valve

A 2-Way, diaphragm actuated, spring-loaded, pressure sustaining/relief pilot valve, applicable for service on pressure sustaining/relief valve trims. It modulates to maintain a steady, pre-set pressure, upstream of the valve's location. As upstream pressure rises above the set value, the 68-500 opens to allow waterflow between its "COM" and "OUT" ports, relieving the water from the valve's control chamber and causing the valve to open. As upstream pressure falls below the set value, the 68-500 throttles, restricting the flow out of the valve's control chamber, limiting the valve's opening or causing it to close (if necessary). It is factory set to 4 bars. If needed, the pilot's set point can be easily adjusted onsite and in-line.

Features:

- UL Listed (when installed on OCV Fluid Solutions Listed models)
- 2-way pilot valve for high accuracy pressure sustaining/relief applications
- Integral stainless steel needle valve - highly accurate and simplifies the control trim
- Minimal internal sealing and maximal dependability
- Easy to adjust

68-710

Pressure Sustaining / Relief 2-Way Pilot Valve

A 2-Way, diaphragm actuated, spring-loaded, pressure sustaining/relief pilot valve, applicable for service on pressure sustaining/relief valve trims. It modulates to maintain a steady, pre-set pressure, upstream of the valve's location. As upstream pressure rises above the set value, the 68-710 opens to allow water flow between its 4 and 3 ports, relieving the water from the valve's control chamber and causing the valve to open. As upstream pressure falls below the set value, the 68-710 throttles, restricting the flow out of the valve's control chamber, limiting the valve's opening or causing it to close (if necessary). It is factory set to 4 bars. If needed, the pilot's set point can be easily adjusted onsite and in-line.

Features:

- UL Listed (when installed on OCV Fluid Solutions listed models)
- Wide regulation range (can be set up to 33 bar/480psi)
- Large water passages allow high flow capacity and fast reaction
- Accurate and easy to adjust
- Simple design and maximal dependability

PPCS

Pneumatic Pressure Control System

The PPCS is intended for fire protection systems, using a supervisory air or Nitrogen pressure source. It automatically reduces supervisory pneumatic pressure to a predetermined set point. When pressure drops in the pilot line, an orifice assembled on the PPCS ensures air volume flowing out of the open sprinklers is higher than the incoming air volume, allowing the control valve to open. The PPCS's set point can be easily adjusted on site.

T Restrictor

The T-Restrictor is a tee fitting with a fixed orifice in its inlet port. It ensures that water volume flowing out of the valve's control chamber is higher than the incoming water volume, allowing the control valve to open when actuated.

141-1
Check Valve

The 141-1 Check Valve uses a spring-loaded poppet that allows flow in one direction only. The check valve maintains water or pneumatic pressure for a time, even when upstream pressure supply drops. Flow is in the direction of the arrow on the check valve body.

141-2
Needle Valve

The Model 141-2 Needle Valve is an adjustable restriction device installed on the control trim. The setting of the needle valve meters the flow into and out of the main valve diaphragm chamber, thus controlling the response speed of the main valve. Depending on the application, the needle valve may be used as a closing speed control, opening speed control, or both simultaneously.

141-3
Speed Control Valve

The Model 141-3 Speed Control Valve is an adjustable restriction device, installed on the control trim. The speed control valve differs from a standard needle valve in that it includes an internal check valve. Thus, it allows free flow in one direction (through the check valve) and restricted flow in the other direction (through the needle valve). The setting of the speed control valve meters the flow into or out of the main valve diaphragm chamber, thus controlling either the opening or closing speed of the main valve. These can be installed in series for separate opening and closing speed control. Restricted flow is in the direction of the flow arrow on the body.

141-4

Block Ball Valve

The Model 141-4 Block Ball Valve is a ¼ turn shutoff device, used for isolating pilot systems, pilot lines and other accessories, such as pressure gauges from line pressure. They are extremely useful for performing routine maintenance and troubleshooting.

141-5

Block & Bleed Ball Valve

The Model 141-5 Block & Bleed Ball Valve is used to isolate pressure sensing instruments from the measured fluid and allows pressure to be bled-off prior to instrument removal or replacement.

159

Y-Type Strainer

The 159 Y-Type Strainer is installed on a valve's upstream trim and protects items such as pilots, solenoids and others from solid contaminants in the line fluid. It is the standard strainer for most of OCV Fluid Solutions' control valves.

123

Inline Strainer

The 123 Inline Strainer is installed on a control valve's upstream port and protects items such as pilots, solenoids and others from solid contaminants in the line fluid. The screen prevents entrance of particles into the trim while flow through the main valve washes the screen clean.

589004

Freshwater Pressure Gauge

- Approvals: UL / FM
- Range: 0-300psi / 0-2050 kPa
- Dial size: 4"
- Case: Stainless steel
- Ring: Stainless steel, polished
- Window: Glass, double strength
- Dial: Brass, white coated
- Pointer: Brass
- Movement: Brass with SS pinion, underload & overload stops
- System: Brass socket, tube & tip
- Accuracy: 3-2-3%
- Connection: Lower mount ¼" NPTM

589700

Seawater Pressure Gauge

- Range: 0-300psi / 0-20 bar
- Dial size: 4”
- Case: Stainless steel, glycerin filled
- Wetted parts: 316 stainless steel
- Bezel: Stainless steel, fixed
- Lens: Polycarbonate
- Pointer: Black aluminum
- Accuracy: 2-1-2% of span ASME B40.1 Grade A
- Ambient temp (glycerin filled): 0°C to 70°C / 30°F to 160°F
- Connection: Lower mount ¼” NPTM
- Design meets or exceeds ASME B40.100 pressure gauge standard

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SK7000 / 640810

Freshwater Hazardous Location Solenoid

- Function: 3/2-Way N.U.
- Process connection: ¼” NPTF
- Cable entry: ½” NPTF
- Maximal pressure differential: 400psi / 27.5 bar (UL WP = 300psig)
- Maximal ambient temperature: Up to 65°C / 150°F
- Wetted parts: Stainless Steel
- Seal: NBR (BUNA-N)
- Media: Air, Water
- Mounting position: any
- Coil voltage & power: 24VDC, 10W (standard). Others upon request.
- Class H coil
- Electrical enclosure & safety code: NEMA 4, 4X, 7 & 9 (UL Listed for hazardous locations CLASS I, GROUPS C AND D, CLASS II, GROUPS E, F AND G)
- UL Listed for deluge service exclusively for OCV Fluid Solutions control valves

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BRK330D / 640829

Seawater Hazardous Location Solenoid

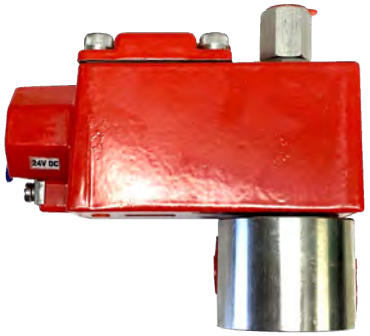
- Function: 3/2-Way N.O. (N.C. upon request)
- Process connection: ¼” NPTF
- Cable entry: ½” NPTF
- Pressure range:
  (5/64” Orifice 0-230psi / 0-16 bar)
  (1/8” Orifice 0-140psi / 0-9.5 bar)
- Temperature range:
  Media: -40°C to 90°C / -40°F to 194°F
  Maximal ambient temperature: 54°C / 130°F
- Wetted parts: Stainless Steel 316
- Seal: E.P.D.M.
- Media: Air, Water
- Mounting position: any (prefer upright)
- Manual override
- Coil voltage & power: 24VDC, 8W (standard). Others upon request.
- Class H coil
- Duty cycle: 100% (ED)
- Electrical enclosure & safety code: IP65 & FM Approved for hazardous locations CLASS 1 DIVISION 1 GROUP A, B, C, D

SOL-Z3

3/2-Way Freshwater Hazardous Location Solenoid

SOL-W3

3/2-Way Freshwater Waterproof Solenoid



- Function: 3/2-Way N.O. or N.C.
- Process connection: ¼" NPTF
- Cable entry: ½" NPTF or M20X1.5mm
- Pressure range: 0-300psi / 0-20 bar
- Temperature range fluid & ambient: 0°C to 70°C / 30°F to 160°F
- Wetted parts: Stainless Steel
- Seal: NBR
- Media: Air, Inert Gases, Water
- Mounting position: any
- Coil voltage & power: 24VDC, 8W (standard). Others upon request.
- Class H coil
- Duty cycle: 100% (ED)
- Electrical enclosure & safety code: IP67 or IP65 & Ex II2GD Exd IICT4-T6 IP66 with enclosure as per ATEX 94/9/EC directive

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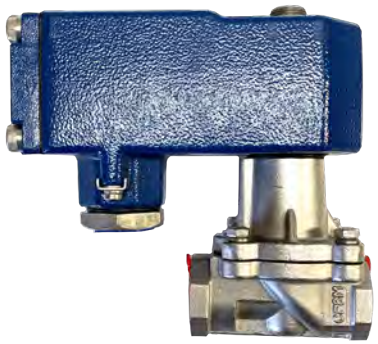
SOL-Z2

2/2-Way Freshwater Hazardous Location Solenoid

SOL-W2

2/2-Way Freshwater Waterproof Solenoid



- Function: 2/2-Way N.O. or N.C.
- Process connection: ½" NPTF
- Cable entry: ½" NPTF or M20X1.5mm
- Pressure range: 14.5-300psi / 1-20 bar
- Temperature range fluid & ambient: 0°C to 80°C / 30°F to 176°F
- Wetted parts: Stainless Steel
- Seal: NBR
- Media: Air, Inert Gases, Water
- Coil voltage & power: 24VDC, 8W (standard). Others upon request.
- Class H coil
- Duty cycle: 100% (ED)
- Electrical enclosure & safety code: IP67 or IP65 & Ex II2GD Exd IICT4-T6 IP66 with enclosure as per ATEX 94/9/EC directive

SOL-GP3

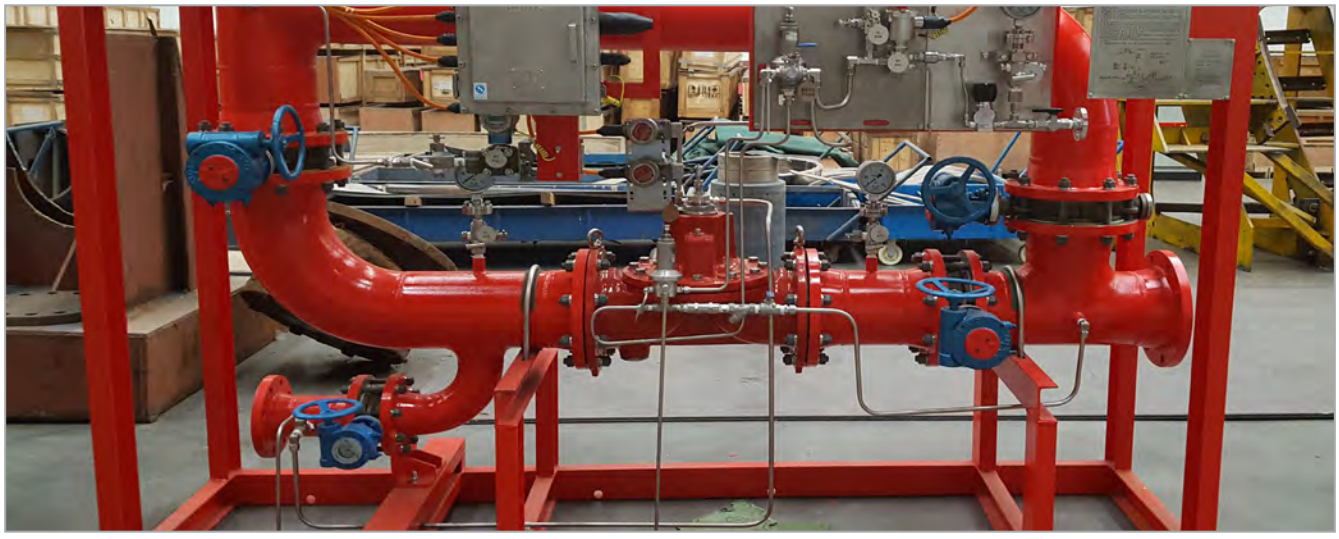
3/2-Way General Purpose Freshwater Solenoid

- Function: 3/2-Way N.O. or N.C.
- Process connection: ¼" NPTF
- Pressure range: up to 250psi / 17 bar
- Temperature range:
  - Fluid: 0°C to 80°C / 30°F to 176°F
  - Ambient: 0°C to 50°C / 30°F to 122°F
- Wetted parts:
  - Body: Brass or Stainless Steel AISI 316
  - Solenoid operator: Stainless Steel AISI 300 & 400 series
- Seal: NBR
- Media: Air, Water, Oil
- Coil voltage & power: 24VDC, 10W (standard). Others upon request.
- Electrical enclosure: IP65

SOL-GP2

2/2-Way General Purpose Freshwater Solenoid

- Function: 2/2-Way N.O. or N.C.
- Process connection: ½" NPTF
- Pressure range: up to 300psi / 20 bar
- Temperature range:
  - Fluid: 0°C to 80°C / 30°F to 176°F
  - Ambient: 0°C to 50°C / 30°F to 122°F
- Wetted parts:
  - Body: Brass or Stainless Steel AISI 316
  - Solenoid operator: Stainless Steel AISI 300 & 400 series
- Seal: NBR
- Media: Air, Water
- Coil voltage & power: 24VDC, 10W (standard). Others upon request.
- Electrical enclosure: IP65



PS-GP

General Purpose Pressure Switch

The PS-GP Pressure Actuated Switch is designed for the detection of a water flow condition in automatic fire sprinkler systems such as wet pipe, dry pipe, pre-action, or deluge valves. The PS10 is also suitable to provide a low pressure supervisory signal; adjustable between 4-15 psi (0.27-1.03 bar).

PS-Z

Hazardous Location Pressure Switch

This hazardous location pressure switch is ideal for operation in difficult applications. A snap action Belleville spring assembly is used to provide vibration resistance and prolonged switch life. The 316 stainless steel enclosure and hermetically sealed switch provide rugged protection from the environment. Approved for use in hazardous locations worldwide, this pressure switch is installed in applications ranging from offshore oil rigs to rotating equipment, and more.

PXS

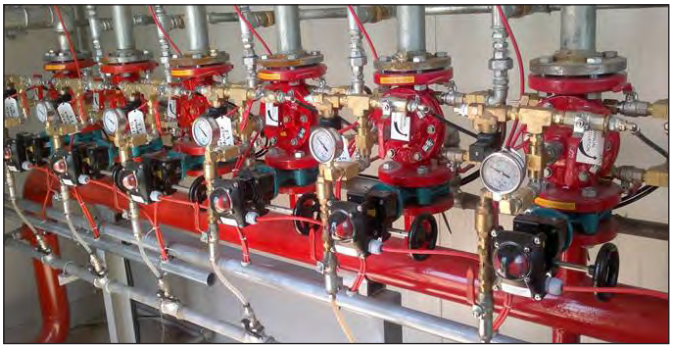
Proximity Switch

This proximity switch is a hermetically sealed linear position switch certified explosion proof and suitable for arduous industrial applications and environmental exposure.

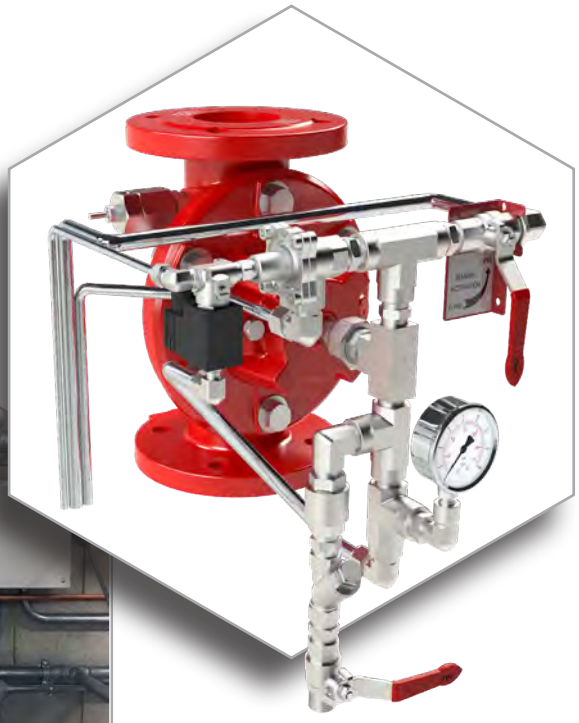
WMA

Water Motor Alarm

The water motor alarm is a hydraulically operated outdoor alarm for use with fire protection systems. It is lightweight yet durable and can be used in conjunction with dry pipe, deluge, and pre-action valves to sound a local alarm. This water powered system eliminates the need for an electrical alarm and will operate even if electrical power is lost.



Excellence
Performance
Quality



With over 70 years experience manufacturing control valves, OCV Fluid Solutions is recognized as the brand of choice of professionals in the fire protection industry. OCV offers a complete line of high performance, listed and approved valves - deluge, pressure control, pressure relief, automatic level control, and more. Developed with flexibility, these valves can be readily adapted to perform numerous functions, while custom solutions can be specially designed for those more challenging applications.

OCV valves can be found in nearly every country in the world, within a variety of markets, and in a multitude of applications.

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