ACV Schematic

LEAD FREE*

LFF116-32 (Globe)

Pressure Sustaining Control Valve with Solenoid (On-Off) and Hydraulic Check Feature

Features

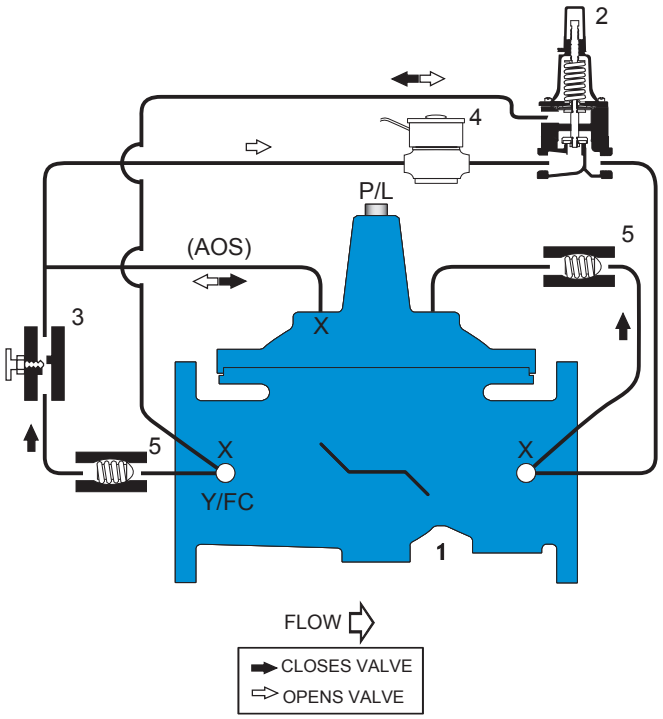
- Throttles open when upstream pressure is above setpoint
- Throttles closed when upstream pressure is below setpoint
- Solenoid (On-Off) Feature provides electrical override of valve
- Hydraulic Check Feature prevents flow reversal
- Commonly installed between two pressure zones or in Tank-Fill applications
- Adjustable Closing Speed
- Setpoint is adjustable

Standard Components

1 - Main Valve (F100 - Single Chamber)
2 - Pressure Sustaining Control
3 - Adjustable Closing Speed
4 - 2-Way Solenoid
5 - Check Valve
X - Isolation Cocks

Options and Accessories

- O FC - Flo-Clean Strainer
- O Y - Y-Strainer (Replaces Flo-Clean)
- O AOS – Adjustable Opening Speed
- O P - Position Indicator
- O L - Limit Switch



Operation

The ACV Pressure Sustaining and Solenoid (On-Off) Control Valve with Hydraulic Check Feature is designed to permit flow when upstream pressure is above the adjustable setpoint of the control pilot, and throttle toward closed when upstream pressure falls below the adjustable setpoint. It is controlled by a normally closed control pilot designed to: 1) Open (allowing fluid out of the main valve cover chamber) when upstream pressure is above the adjustable setpoint, and, 2) Close (allowing fluid to fill the main valve cover chamber) when upstream pressure is below the adjustable setpoint. An increase in upstream pressure causes the valve to modulate toward an open position. A decrease in upstream pressure causes the valve to modulate toward a closed position.

The Solenoid Pilot will either open to allow regulating action, or close the valve drip-tight when energized. Specify energize to open or close the Main Valve and voltage PRIOR to ordering.

If downstream pressure becomes greater than upstream pressure, downstream pressure is admitted to the main valve cover chamber, closing the valve and preventing reversal of flow. Normal backpressure or sustaining operation resumes when upstream pressure exceeds downstream pressure.

When the valve is located “in line” connecting two distribution zones, the valve acts as a Pressure Sustaining Control Valve. When pressure in the upstream zone falls below the pilot setting, the valve modulates toward a closed position, sustaining pressure in the upstream zone. The valve will close, if necessary, until upstream pressure is above the pilot setting. The valve should be specified to include the optional opening speed control and position indicator when used for Pressure Sustaining applications

***The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.**

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

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