

## ACV Schematic

**LEAD FREE\*****LFF115-7 (Globe)****Pressure Reducing Control Valve with Downstream Surge Control Feature****Features**

- Throttles to reduce high upstream pressure to constant lower downstream pressure
- Closes quickly when downstream pressure exceeds reduced pressure setpoint
- Ideal for use when high capacity on-off equipment is installed downstream
- Reducing and Surge Control setpoints are separately adjustable

**Standard Components**

- 1 – Main Valve (Single Chamber)
- 2 – Pressure Reducing Control
- 3 – Downstream Surge Control
- 4 – Fixed Orifice
- X – Isolation Cocks

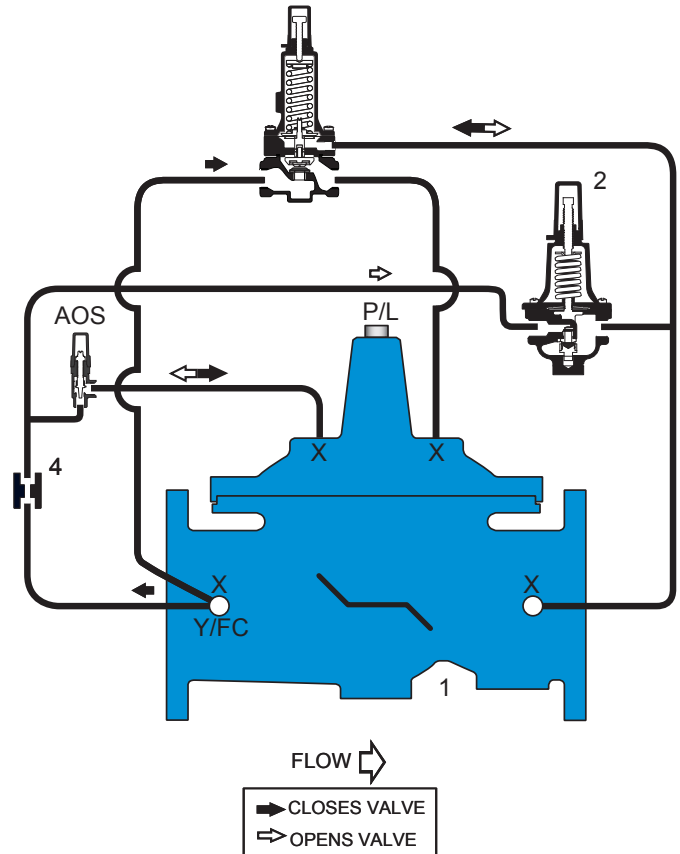
**Options and Accessories**

- FC Flo-Clean Strainer (Standard 1¼" – 4")
- Y Y-Strainer (Replaces Flo-Clean)
- ACS Adjustable Closing Speed (Replaces Fixed Orifice)
- AOS Adjustable Opening Speed (Standard 1¼" – 4")
- P Position Indicator
- L Limit Switch

**Operation**

The ACV Combination Pressure Reducing and Surge Control Valve is designed to automatically reduce a fluctuating higher upstream pressure to a constant lower downstream pressure, and will quickly modulate toward a closed position if downstream pressure suddenly becomes greater than the desired regulated setpoint. The quick closing action prevents possible damaging high inlet pressure from passing through the valve to downstream piping. Normal regulating action is controlled by a normally open, pressure reducing pilot designed to: 1) Open (allowing fluid out of the main valve cover chamber) when downstream pressure is below the adjustable setpoint, and 2) Close (allowing fluid to fill the main valve cover chamber) when downstream pressure is above the adjustable setpoint. A decrease in downstream pressure causes the valve to modulate toward an open position, raising downstream pressure. An increase in downstream pressure causes the valve to modulate toward a closed position, lowering downstream pressure.

If downstream pressure suddenly becomes greater than the desired regulated setpoint, the normally closed surge control pilot opens and rapidly admits higher inlet pressure into the valve cover, increasing rate of valve closure. Normal pressure reducing operation resumes when downstream pressure decreases below the desired regulated setpoint.



\*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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