

## ACV Schematic

**LEAD FREE\*****LF910-01GD****Pressure Reducing Control Valve with Hydraulic Check Feature****Features**

- Throttles to reduce high upstream pressure to constant lower downstream pressure
- Hydraulic Check Feature prevents flow reversal
- Reducing setpoint is adjustable

**Standard Components**

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

**Options and Accessories**

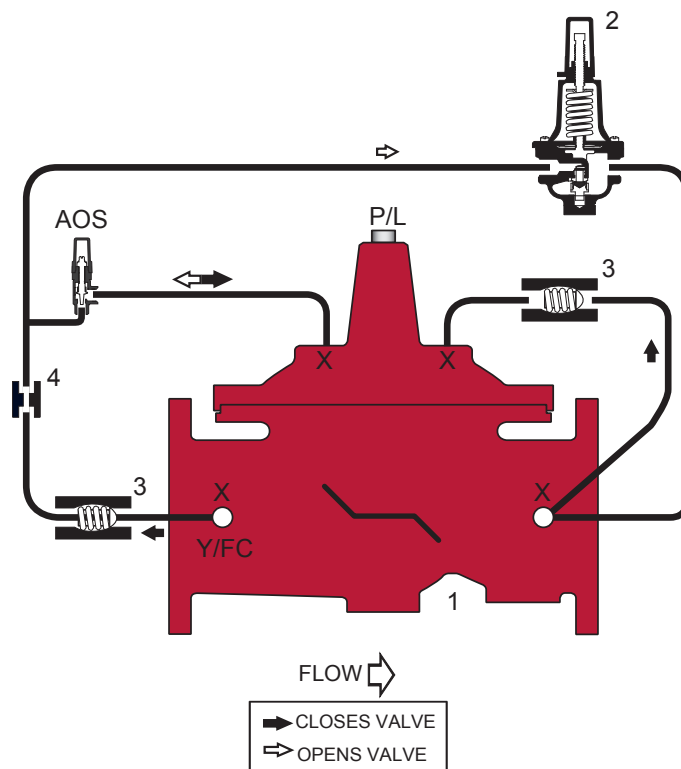
- FC Flo-Clean Strainer (Standard 1¼" – 4")
- Y Y-Strainer (Replaces Flo-Clean)
- ACS Adjustable Closing Speed (Replaces Fixed Orifice)
- AOS Adjustable Opening Speed (Standard 1¼" – 4")
- P Position Indicator
- L Limit Switch

**Operation**

The ACV Combination Pressure Reducing and Check Valve is designed to automatically reduce a fluctuating higher upstream pressure to a constant lower downstream pressure, and close drip-tight when downstream pressure becomes greater than upstream pressure.

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



\*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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