## ACV Schematic

# LEAD FREE\*

## S115-11 (Globe)

Pressure Reducing and Sustaining Control Valve with Hydraulic Check Feature

#### Features

- Throttles to reduce high upstream pressure to constant lower downstream pressure
- Throttles to maintain minimum upstream pressure
- Hydraulic Check Feature prevents flow reversal
- Reducing and Sustaining setpoints are separately adjustable

### Standard Components

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

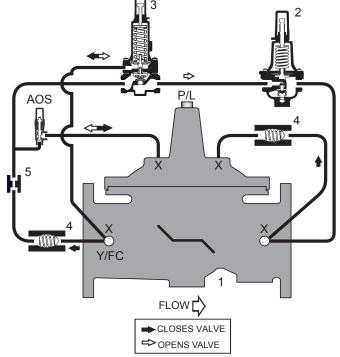
#### **Options and Accessories**

- O FC Flo-Clean Strainer (Standard 11/4" 4")
- O Y Y-Strainer (Replaces Flo-Clean
- O ACS Adjustable Closing Speed (Replaces Fixed Orifice)
- O AOS Adjustable Opening Speed (Standard 11/4" 4")
- O P Position Indicator
- O L Limit Switch

### Operation

The ACV Combination Pressure Reducing and Sustaining Control Valve with Hydraulic Check Feature is designed to automatically reduce a fluctuating higher upstream pressure to a constant lower downstream pressure regardless of varying flow rates, and will throttle to sustain a minimum 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.

The normally closed sustaining pilot remains open when upstream pressure is above the adjustable setpoint, and modulates toward a closed position if upstream pressure falls below the setpoint. As the sustaining pilot closes, fluid is directed into the main valve cover chamber, allowing the valve to modulate toward a closed position, raising upstream pressure. Normal pressure reducing operation resumes when upstream pressure is above the sustaining pilot setpoint, and downstream pressure is below the reducing pilot setpoint.



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.

\*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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