

LEAD FREE*

Pressure Sustaining or Backpressure Control Valve with Hydraulic Check Feature

- Throttles open when upstream pressure is above setpoint
- Throttles closed when upstream pressure is below setpoint
- Hydraulic Check Feature prevents flow reversal
- Adjustable Closing Speed
- When installed between two pressure zones acts as Pressure Sustaining Valve
- When installed on discharge of a pump acts as Backpressure Control Valve
- Setpoint is adjustable

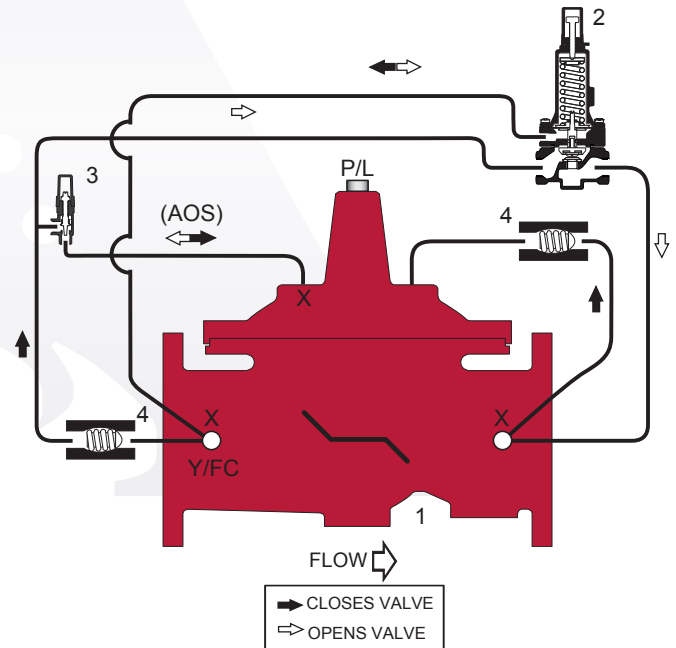
- 1 — Main Valve (Single Chamber)
- 2 — Pressure Sustaining Control
- 3 — Adjustable Closing Speed
- 4 — Check Valve
- X — Isolation Cocks

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

The ACV Combination Backpressure or Sustaining 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, and close drip-tight when downstream pressure becomes greater than upstream 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 backpressure or sustaining operation resumes when upstream pressure exceeds downstream pressure.

When the valve is installed “in line” on the discharge of a pump, it acts as Backpressure Control Valve. When pump discharge pressure falls below the pilot setting, the valve modulates toward a closed position, increasing backpressure against the pump. The valve should be



When the Model 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.

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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