

ACV Schematic

LEAD FREE*

910-17GS

Pressure Reducing Control Valve with Return Flow Feature

Features

- Throttles to reduce high upstream pressure to constant lower downstream pressure
- Return Flow Feature opens valve when downstream pressure is higher than upstream
- Reducing setpoint is adjustable

Standard Components

- 1 - Main Valve (905GS - Single Chamber)
- 2 - Pressure Reducing Control
- 3 - Check Valve
- 4 - Fixed Orifice
- X - Isolation Cocks

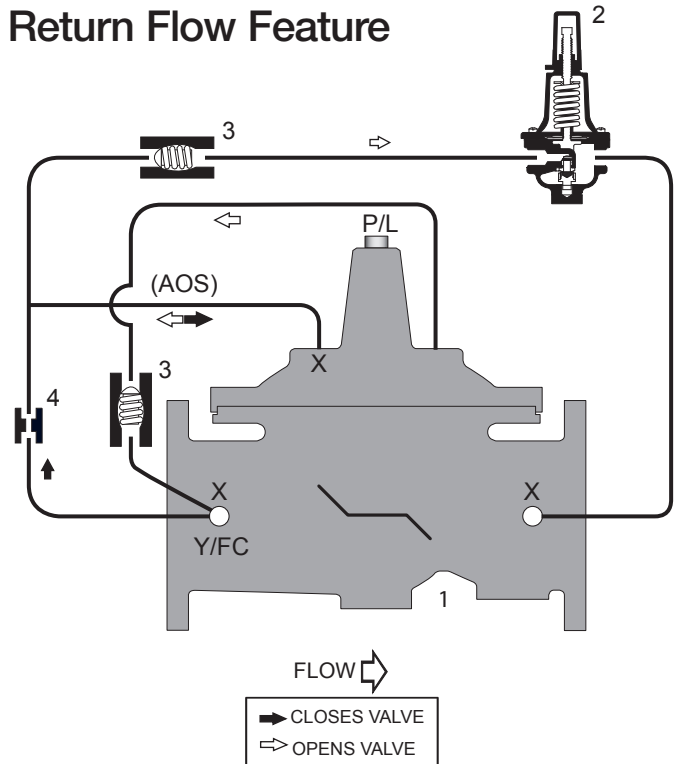
Options and Accessories

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

Operation

The ACV Pressure Reducing Control Valve with Return Flow Feature is designed to automatically reduce a fluctuating higher upstream pressure to a constant lower downstream pressure regardless of varying flow rates, and open for return flow when downstream pressure exceeds inlet 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, the valve opens allowing the higher downstream pressure to return to the upstream pressure zone. 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.

Ames Fire & Waterworks product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Ames Fire & Waterworks Technical Service. Ames Fire & Waterworks reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Ames Fire & Waterworks products previously or subsequently sold.

USA: Backflow Tel: (978) 689-6066 • Fax: (978) 975-8350 • AmesFireWater.com
USA: Control Valves Tel: (713) 943-0688 • Fax: (713) 944-9445 • AmesFireWater.com
Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • AmesFireWater.ca
Latin America: Tel: (52) 81-1001-8600 • Fax: (52) 81-8000-7091 • AmesFireWater.com

SCH-A-ACV-910-17GS 1626



A WATTS Brand

© 2016 Ames Fire & Waterworks