ACV Schematic

LEAD FREE*

S114-3 (Globe) Rate-of-Flow Control Valve with Hydraulic Check Feature

Features

- Throttles to maintain constant rate-of-flow
- Hydraulic Check Feature prevents flow reversal
- Adjustable Closing Speed
- Orifice Plate Assembly is remote mounted (field installed)
- Rate-of-Flow setpoint is adjustable

Standard Components

- 1 Main Valve S100 Single Chamber)
- 2 Rate-of-Flow Control
- 3 Check Valve
- 4 Adjustable Closing Speed
- 5 Orifice Plate Assembly
- X Isolation Cocks

Options and Accessories

- O FC Flo-Clean Strainer
- O Y Y-Strainer (Replaces Flo-Clean)
- O AOS Adjustable Opening Speed
- O P Position Indicator
- O L Limit Switch

Operation

The ACV Rate-of-Flow Control Valve is designed to automatically limit flow rate to a constant, adjustable, maximum, and close driptight when downstream pressure becomes greater than upstream pressure. It is controlled by a normally open, differential control pilot designed to: 1) Open (allowing fluid out of the main valve cover chamber) when the differential pressure across the orifice plate is below it's adjustable set point, and, 2) Close (allowing fluid to fill the main valve cover chamber) when the differential pressure across the orifice plate is above it's adjustable set point. A decrease in differential pressure causes the valve to modulate towards an open position, increasing flow rate. An increase in differential pressure causes the valve to modulate towards a closed position, decreasing flow rate.

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 flow control operation resumes when upstream pressure exceeds downstream pressure.

The Orifice Plate Assembly should be installed three to five pipe diameters downstream of the Rate-of- Flow Valve, and field connected with 3/s" minimum copper tubing in accordance with factory piping schematic. Please specify desired flow rate prior to ordering.



*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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