

## ACV Schematic

# LEAD FREE\*

## LFM114-1 (Globe)

### Rate-of-Flow Control Valve with Solenoid (On-Off) Feature

#### Features

- Throttles to maintain constant rate-of-flow
- Solenoid (On-Off) Feature provides electrical override of valve function
- Adjustable Closing Speed
- Orifice Plate Assembly is remote mounted (field installed)
- Rate-of-Flow setpoint is adjustable

#### Standard Components

- 1 - Main Valve (M100 - Single Chamber)
- 2 - Rate-of-Flow Control
- 3 - 2-Way Solenoid
- 4 - Adjustable Closing Speed
- 5 - Orifice Plate Assembly
- X - Isolation Cocks

#### Options and Accessories

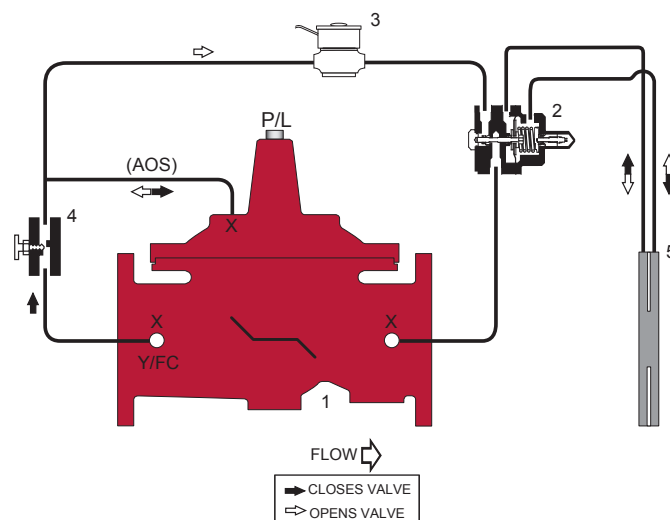
- FC - Flo-Clean Strainer
- Y - Y-Strainer (Replaces Flo-Clean)
- AOS – Adjustable Opening Speed
- P - Position Indicator
- L - Limit Switch

#### Operation

The ACV Rate-of-Flow Control Valve with Solenoid (On-Off) Feature is designed to automatically limit flow rate to a constant, adjustable, maximum, and open, allowing flow control action, or close drip-tight as commanded by the Solenoid Pilot. 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 its 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 its 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.

The Solenoid Pilot will either open to allow regulating action, or close the valve drip-tight when energized. Specify energize to open or close the Main Valve and voltage PRIOR to ordering.

The Orifice Plate Assembly should be installed three to five pipe diameters downstream of the Rate-of-Flow Valve, and field connected with 3/8" 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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