

## ACV Schematic

# LEAD FREE\*

## LF930-01-19GD (Globe)

### Solenoid (On-Off) Control Valve with Hydraulic Check Feature (6" and Larger)

#### Features

- Electrically operated on / off (open / closed) valve
- Normally Open or Closed operation
- High capacity pilot system for quick response
- Adjustable Opening and Closing Speed
- Hydraulic Check Feature prevents flow reversal
- Solenoid equipped with Manual Operator

#### Standard Components

- 1 - Main Valve (905GD - Single Chamber)
- 2 - F22-1 Accelerator Control
- 3 - 3-Way Solenoid
- 4 - Adjustable Closing Speed
- 5 - Adjustable Opening Speed
- 6 - Check Valve
- X - Isolation Cocks

#### Options and Accessories

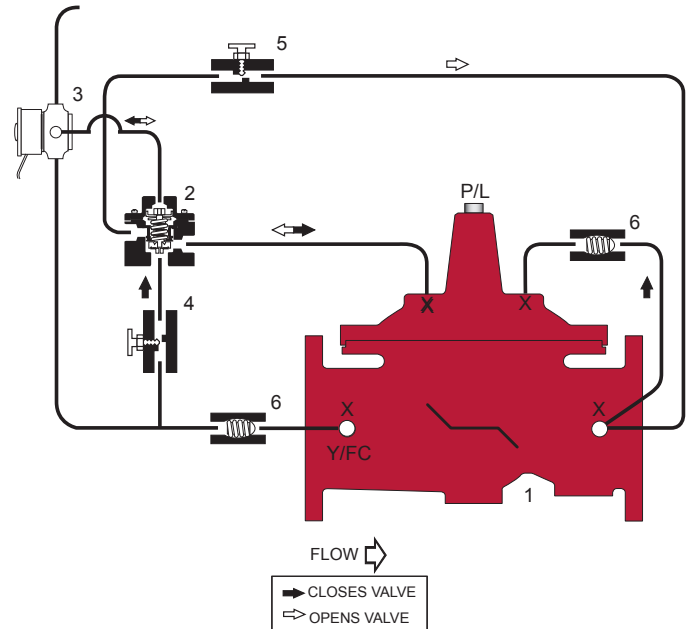
- FC - Flo-Clean Strainer
- Y - Y-Strainer (Replaces Flo Clean)
- P - Position Indicator
- L - Limit Switch

#### Operation

The ACV Solenoid On-Off Control Valve with Hydraulic Check Feature is designed to open fully or close drip-tight as commanded by the 3-Way Solenoid Pilot, and close drip-tight when downstream pressure becomes greater than upstream pressure. The Solenoid Pilot directs upstream pressure into and out of the cover chamber of the 3-way Accelerator Pilot. When the cover of the Accelerator Pilot is pressurized, the main valve cover chamber is vented downstream (dry drain) or to atmosphere (wet drain), causing the valve to open fully. When the cover of the Accelerator Pilot is de-pressurized, the main valve cover chamber is connected to upstream pressure, causing the valve to close drip tight. Valve opening and closing speeds are separately adjustable. Engaging the Solenoid Manual operator simulates power to the solenoid, manually controlling the main valve. Disengaging the Solenoid Manual operator returns the valve to electrical on-off service.

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 On-Off operation resumes when upstream pressure exceeds downstream pressure.

Specify voltage and MAIN VALVE actuation (energize to open or close), and "wet" or "dry" drain 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.

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-LF930-01-19GD 1626



**A WATTS Brand**