
Classic Series

F114-1 (Globe)
F1114-1 (Angle)**Operation**

The Watts 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.**

NOTE: Please specify desired flow rate prior to ordering.

Installation Guidelines

- Prior to installation, flush line to remove debris.
- Install valve horizontally "in line" (cover facing UP), so flow arrow matches flow through the line. Avoid installing valves 6" or large vertically. Consult factory **prior** to ordering if installation is other than described.
- Install inlet and outlet isolation valves. **NOTE:** When using butterfly valves, insure disc does not contact control valve. Damage or improper valve seating may occur.
- Provide adequate clearance for valve servicing and maintenance.
- Install pressure gauges to monitor valve inlet and outlet pressure.
- Connect Solenoid to proper electrical source in compliance with local electrical codes.

Other Watts ACV Rate-of-Flow Control Valves

F114 / F1114	Rate-of-Flow Control Valve
F114-2 / F1114-2	Rate-of-Flow Control Valve with Pressure Reducing Feature
F114-3 / F1114-3	Rate-of-Flow Control Valve with Hydraulic Check Feature
F114-8 / F1114-8	Rate-of-Flow Control Valve with Pressure Sustaining Feature