



# PRESSURE REDUCING VALVE with SOLENOID (On-Off) FEATURE

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## Classic Series

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F115-4 (Globe)  
F1115-4 (Angle)

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### Operation

The Watts ACV Combination Pressure Reducing and Solenoid On-Off Control Valve is designed to automatically reduce a fluctuating higher upstream pressure to a constant lower downstream pressure regardless of varying flow rates, and open, allowing regulating action, or close drip-tight as commanded by the Solenoid Pilot. 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.

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.**

### 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 higher 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.
- If installation is subjected to very low flow or potentially static conditions, it is recommended a pressure relief valve (1/2” minimum) be installed downstream of the Pressure Reducing Valve for additional system protection.
- Connect Solenoid to proper electrical source in compliance with local electrical codes.

### Other Watts ACV Pressure Reducing Control Valves

F115 / F1115	Pressure Reducing Valve
F115-2 / F1115-2	Pressure Reducing and Sustaining Valve
F115-3 / F1115-3	Pressure Reducing Valve with Hydraulic Check Feature
F115-7 / F1115-7	Pressure Reducing Valve with Surge Control Feature
F115-43 / F1115-43	Pressure Reducing and Sustaining Valve with Surge Control Feature
F115-58 / F1115-58	Pressure Reducing Valve with Return Flow Feature
F115-74 / F1115-74	Pressure Reducing Valve with Low Flow By-Pass