PRESSURE REDUCING VALVE with SURGE (On-Off) FEATURE

01/06

910 Series

Model 910-15 / 610-15

Operation

The AMES Model 910-15 / 610-15 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, AMES recommends 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 AMES Pressure Reducing Control Valves

910 / 610	Pressure Reducing Valve
910-01 / 610-01	Pressure Reducing Valve with Hydraulic Check Feature
910-11 / 610-11	Pressure Reducing Valve with Downstream Surge Control Feature
910-17 / 610-17	Pressure Reducing Valve with Return Flow Feature
910-48 / 610-48	Pressure Reducing Valve with Low Flow By-Pass
912 / 612	Pressure Reducing and Pressure Sustaining Valve
912-01 / 612-01	Pressure Reducing and Sustaining Valve with Hydraulic Check Feature

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