



## ON-OFF FLOAT VALVE (6" and Larger)

01/06

### 970 Series

—Model— **972-19**  
**672-19**

#### Operation

The AMES Model 972-19 / 672-19 On-Off Float Control Valve is designed to open fully or close drip-tight as commanded by the Float Control Pilot. The Float Pilot may be either valve or remote mounted. The valve closes drip tight when water level reaches the adjustable high-level setpoint, and opens fully when water level is below the adjustable low-level setpoint, allowing a calculated “draw-down” of water level to increase tank circulation.

The On-Off Float 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, 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. When water level reaches the adjustable high-level setpoint, the Float Pilot de-pressurizes the cover chamber of the 3-Way Accelerator, closing the valve drip tight. The valve remains closed as water level decreases. When water level reaches the adjustable low-level setpoint, the Float Pilot pressurizes the cover chamber of the 3-Way Accelerator, opening the valve fully. High and low levels are separately adjustable by positioning stop collars on the float rod(s) at desired opening and closing setpoints.

If desired, the on-off action of the valve can be “reversed” by modifying the hydraulic connections of the On-Off Float Pilot.



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#### 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" and larger 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 gauge to monitor valve inlet pressure.
- If On-Off Float Pilot is remotely mounted it should be field connected with 3/8" minimum copper tubing in accordance with factory piping schematic.
- Float Pilot, Rods, and Ball should be mounted in a field installed "stilling well" for protection against surface turbulence and interference.
- Additional 12" Float Rods available. Consult Factory.

#### Other AMES Float Control Valves

972 / 672	On-Off Float Control Valve (4" & smaller)
972-20 / 672-20	On-Off Float Control Valve with Pressure Sustaining Feature
979 / 679	Modulating Float Control Valve
979-15 / 679-15	Modulating Float Control Valve with Solenoid (On-Off) Feature
979-20 / 679-20	Modulating Float Control Valve with Pressure Sustaining Feature