

ONE-WAY FLOW ALTITUDE VALVE

	(01/06
	Madal 90	60
960 Series	Model6	60

Operation

The AMES Model 960 / 660 One Way Flow Altitude Valve is designed to open, allowing flow into a reservoir or elevated storage tank (tank fill), and close drip tight when high water level is achieved. The Altitude Pilot remotely senses static tank head pressure (water level) through a field installed sensing line, and directs 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 pressure, causing the valve to close drip tight.

As water level decreases, static tank head pressure falls below the adjustable setpoint of the Altitude Pilot, causing it to pressurize the cover of the Accelerator Pilot, opening the valve. As water level increases, static tank head exceeds the adjustable setpoint of the Altitude Pilot, causing it to depressurize the cover of the Accelerator Pilot, closing the valve drip tight. Valve opening and closing speeds are separately adjustable. The Position Indicator with Air Bleed Petcock allows for visual indication of valve position, and easy venting of air entrapped in the main valve cover chamber.

Specify Tank height 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" 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 gauges to monitor valve inlet, outlet, and static head pressure.
- Provide adequate drain for cover chamber discharge if "wet drain" option is selected. Consult "Valve Cover Capacity" chart on appropriate main valve Engineering Bulletin.
- Install static tank head sense line. For optimum control, sense line should be: 1) Installed with an upward angle (towards reservoir) to avoid air accumulation, 2) Connected no further than forty-five pipe diameters from the reservoir, and 3) A minimum of 1/2" diameter.

Other AMES Altitude Control Valves

960-13 / 660-13	One Way Flow Altitude Valve with Delayed Opening Feature
960-15 / 660-15	One Way Flow Altitude Valve with Solenoid Override Feature
960-15-17 / 660-15-17	Two Way Flow Altitude Valve with Solenoid Override Feature
960-17 / 660-17	Two Way Flow Altitude Valve
962 / 662	One Way Flow Altitude Valve with Pressure Sustaining Feature