



# NON-SURGE CHECK VALVE (6" and Larger)

01/06

## 940 Series

—Model— **940-04-19**  
**640-04-19**

### Operation

The AMES Model 940-04-19 / 640-04-19 Non-Surge Check Valve is designed to control pipeline surges caused by flow reversal by slowly opening and closing at separate adjustable rates. The valve opens when upstream pressure is greater than downstream pressure. When upstream pressure is greater than downstream pressure, the Adjustable Opening Speed Control allows fluid out of the main valve cover chamber, providing a controlled rate of opening. When a pressure reversal occurs and downstream pressure becomes higher than upstream pressure, the two Adjustable Closing Speed Controls allows the higher downstream pressure to enter the main valve cover chamber, providing a controlled rate of closure.

**NOTE:** A maximum pipeline velocity of six feet-per-second is recommended when installing this type of check valve. When pipeline velocities exceed six FPS, consideration should be given to adding an AMES Model 920 Pressure Relief Valve or Model 925 Combination Surge Anticipator and Pressure Relief Valve to the system.

### 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 and outlet pressure.

### Other AMES Control Valves

920 / 620	Pressure Relief Valve
925 / 625	Surge Anticipator and Pressure Relief Valve
940-04 / 640-04	Non-Surge Check Valve (4" & smaller)
980-16 / 680-16	Pump Control Valve
980-16-19 / 680-16-19	Pump Control Valve with High Capacity Pilot System
985 / 685	Deep Well Pump Control Valve
985-20 / 685-20	Deep Well Pump Control Valve with Pressure Relief Feature
986 / 686	Pump Control Valve