



PUMP DISCHARGE PRESSURE REDUCING ELECTRIC CHECK VALVES

With Normal, Emergency and Manual Controls

This Valve Will:

1. Check to prevent reverse flow back through pump
2. Provide adjustable opening and closing speed to minimize pump start-up and normal shutdown surges
3. Provide adjustable emergency closing speed control to prevent excessive pump backspin on power outage
4. Throttle as necessary to reduce the pump discharge pressure to a lower delivery pressure

Function:

The pump discharge pressure sustaining valve shall function to minimize surges associated with the starting and normal shutdown of a pump. The valve operation is solenoid controlled and actuated by water pressure obtained from the inlet and outlet side of the valve

The valve will open at a controlled rate of speed when the NSP and ESP are energized. Once open, the valve will throttle at whatever position necessary to reduce the pump discharge pressure to a lower delivery (downstream) pressure as set on the reducing pilot. The valve will open fully if the delivery pressure is lower than the pilot setting and close if rises above the pilot setting.

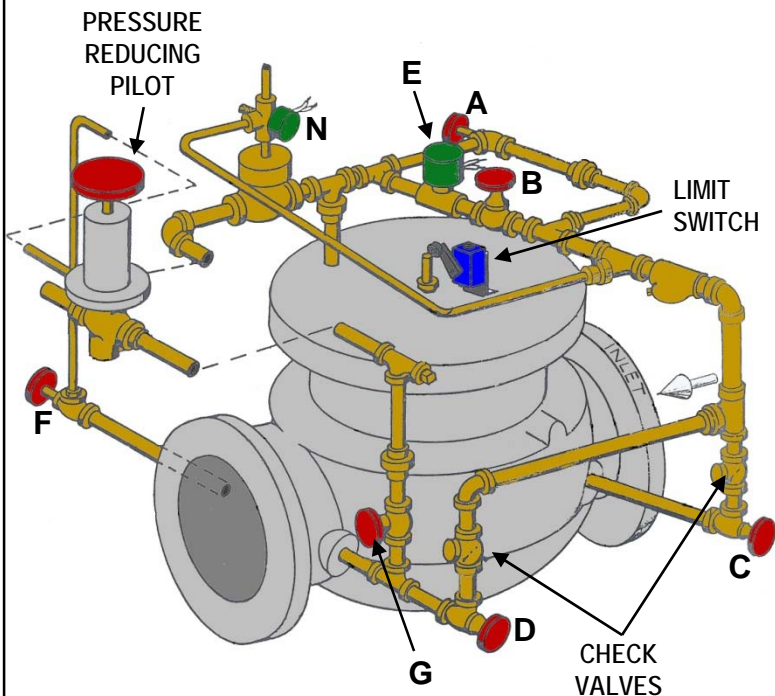
De-energizing the NSP shall initiate a normal controlled valve closure. At a point near the seated position the indicator rod actuates the limit switch and disengages the pump motor and the emergency solenoid pilot.

In the event of an electrical power outage the emergency solenoid de-energizes and initiates a more rapid valve, but controlled, closure to minimize pump backspin.

A manual operator on the normal solenoid pilot allows valve/pump operation if the solenoid coil is burned out.

When to use this Electric Check:

- To control pump start-up/shutdown surges and...
- To limit the delivery pressure during periods of high suction pressure and/or...
- To limit the delivery pressure during periods of low demand



- A – Normal Closing Speed Control
- B – Emergency Closing Speed Control
- C – Stop Valve (Normally Open)
- D – Stop Valve (Normally Open)
- E – Emergency Solenoid Pilot (ESP)
- F – Stop Valve (Normally Open)
- G – Stop Valve (Normally Open)
- N – Normal Solenoid Pilot (NSP) with Manual Operator

GLOBE BODY SHOWN, ALSO
AVAILABLE IN ANGLE BODY

Figure 4730-D Class 125 Globe
Figure 4730-U Class 250 Globe

Figure 4740-D Class 125 Angle
Figure 4740-U Class 250 Angle

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