

### ► Simple, Reliable and Accurate

- Completely Automatic Operation
- Easy Adjustment and Maintenance
- Quality Approved Materials
- World Wide Support

#### ► CLA-VAL SERIES 60 Sequence of Operation

##### **Pump off:**

When the pump is off a Hydraulic Check Feature keeps the valve in a closed position.

##### **Starting sequence:**

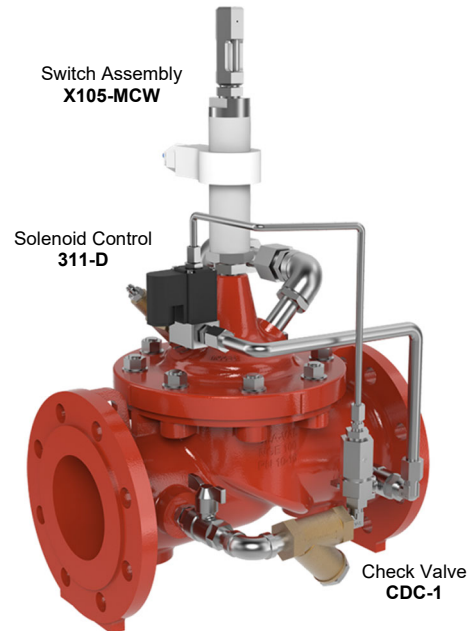
The pump starts against a closed valve. When the working pump rate is reached the Solenoid Control opens the valve.

##### **Stopping sequence:**

The pump requires a closed valve. The shut-off signal de-energizes the Solenoid Control to close the valve slowly. Meanwhile the pump is still working. When the valve is fully closed the Switch Assembly shuts the pump off.

##### **Emergency sequence:**

In case of a power failure ( $P2 > P1$ ), the Hydraulic Check Feature immediately closes the valve in order to protect the pump. The Pressure Relief Valve or Surge Anticipator Valve is usually combined with the pump control valve in order to dissipate surge pressures.

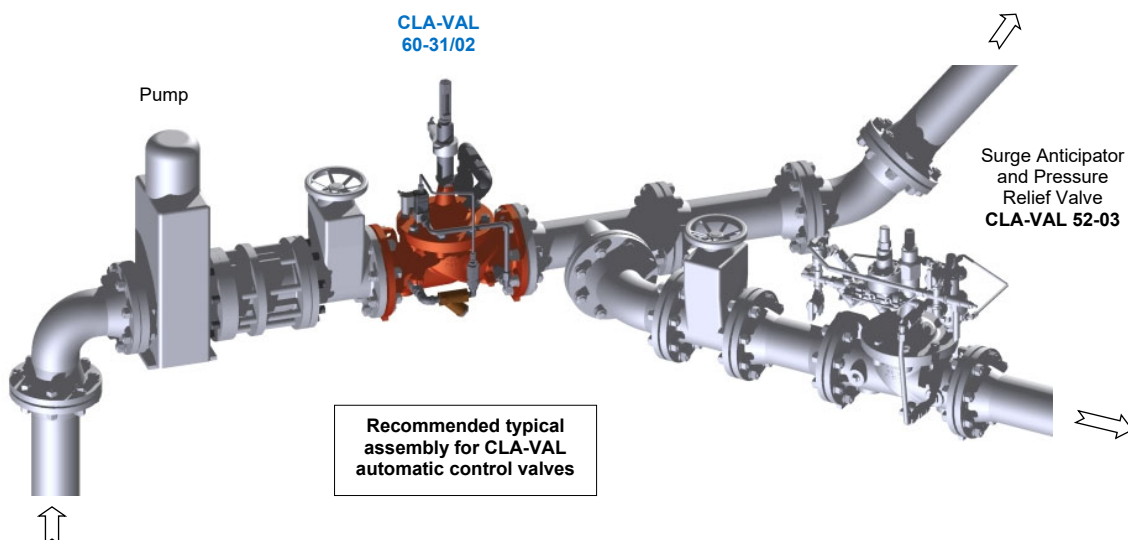


The CLA-VAL SERIES 60 Pump Control Valve is a pilot-operated valve designed for installation on the discharge of pumps to prevent pipeline surges caused by starting and stopping of pumps.

#### *Make your valve even Better!*

LFS Option?	<u>Control</u> Low flows or night flows
KO Option?	<u>Extend</u> valve life with Anti-Cavitation trim
KG1 Option?	<u>Use</u> stem cleaning for harsh water
Maintenance?	<u>Check</u> on periodic maintenance
Environment?	<u>Adapt</u> to high temperatures or frost risk
Security?	<u>Add</u> hydraulic safety back-up to your valve
Protection?	<u>Remove</u> excessive system overpressures
Corrosion?	<u>Protect</u> your valve with upgraded materials

*Not just Products but Solutions: contact CLA-VAL!*



Recommended typical assembly for CLA-VAL automatic control valves