



## KNOWLEDGE BASE

Article Type: **Instructions**

### **Solenoid Valves slow to de-activate with Thompson Controllers, used on Foster Packers**

#### Description:

A perceptible delay of valve closure may be observed when solenoid valves are used with a Thompson Controller.

#### **WARNING**

Never work on, clean or service this unit, control panel or any machine or open or remove any protective cover, guard, grate, door, or maintenance panel until the power or energy sources has been turned off, locked out / tagged out, and all moving parts have come to a complete stop and or blocked to prevent movement. Machinery is dangerous - avoid personal injury and or death by following manufacture, Local, and OSHA safety procedures. Contact Columbia Machine for safety decals, guards, horns and beacons.

## Solenoid Valves Slow to Deactivate with Thompson Controllers used on Foster Packers

### Issue:

A perceptible delay of valve closure may be observed when solenoid valves are used with a Thompson Controller. This issue will generally present on startup and commissioning.

### Cause:

Thompson Controllers employ the use of solid state electronics to switch the outputs. These solid state components will allow for some electrical current to pass even when the output is off, causing the delay in collapse of the magnetic field.

### Solution:

Installation of a pull-down resistor between the affected output terminal and neutral will increase the load and eliminate the delay in deactivation of the valve. The resistor should be a value of 10,000ohms with a 2 watt rating.

