

## BY-PASS & PRESSURE SWITCH ADJUSTMENT (FOR PUMPS WITH BY-PASS)

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The by-pass is a spring loaded diaphragm that opens up allowing water from the discharge side back to the inlet side. The by-pass is set to begin opening at about 40 psi and creating full by-pass at about 65 psi. The pressure switch on the pump is set to shut off at 55 psi. If the switch or by-pass are adjusted too much, the by-pass and switch shut-off can overlap and **THE PUMP WILL NOT SHUT OFF**. Screwing the switch screw in clockwise will raise the shut-off pressure. Unscrewing the switch screw counterclockwise will lower the pump shutoff pressure. Screwing the by-pass screw in will raise the pressure at which the by-pass starts and raise the full by-pass pressure. Unscrewing the by-pass screw counterclockwise will lower the pressure at which by-pass starts and lower the full by-pass pressure.

**WARNING: If full by -pass is reached before the shut-off setting, the pump will not shut off.** Full by-pass pressure setting should be at least 5 psi higher than pump shut off pressure.

### SETTING PROCEDURE

1. Turn off power.
2. Disconnect power wire to switch.
3. Connect power directly to the red pump motor lead. Pump will start.
4. Close all valves and adjust by-pass screw until it reaches desired full by-pass [factory setting = 65 psi] Open and close valve and adjust as needed.
5. Open valve and turn off power.
6. Reconnect power wire to switch.
7. Open and close valve alternately while adjusting switch screw to reach desired shut -off pressure [55 psi].

Pressure Switch  
Shut-Off Pressure  
Adjustment Screw

Flow By-Pass  
Adjustment Screw

