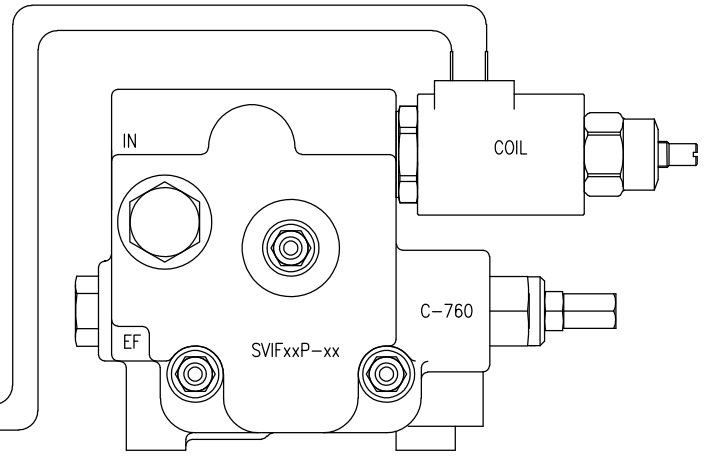
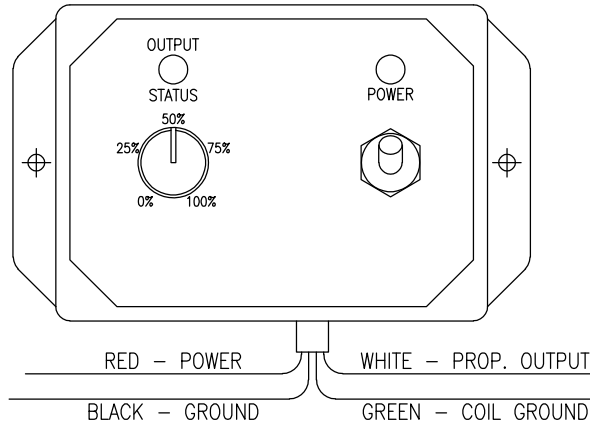


# Proportional Controller Box Application Example

Coil does not have a polarity, leads may be connected to either of the coil connectors.

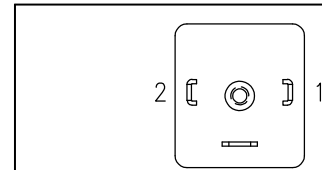


Prince SVIF-P Proportional Flow Control Inlet

### SVIF PROPORTIONAL FLOW CONTROL INLET:

OPTION 'P' in the flow control incorporates a solenoid operated, electrically variable pressure-compensated flow control cartridge. With the solenoid de-energized, all inlet flow is diverted to the tank core/EF port. By increasing the current through the solenoid coil, the flow directed to the power core and downstream sections will be proportionally increased. (the maximum rating of the cartridge is 16 gpm at 1500 mA) Control current is normally provided via a controller card providing a PWM signal.

Application Example



Example of DIN-43650 type A connection. Coils do not have a polarity and leads may be connected to either spade 1 or 2.

# Proportional Controller Box (Prince Part No. 671300048)

### CONNECTIONS, OPERATION AND ADJUSTMENTS

#### Connections:

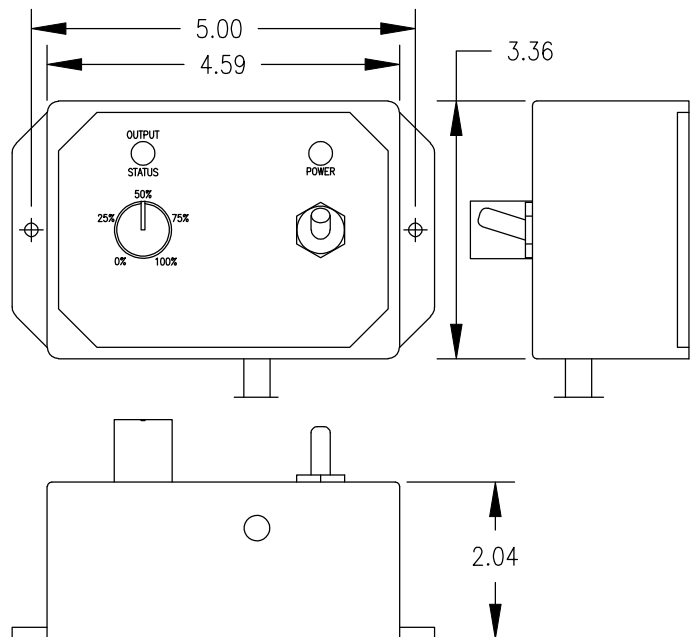
\*Connect leads to the power supply and solenoid coil. Power supply should be between 9 and 30 VDC.

#### Operation:

- \*With the power off, the inlet flow is directed to the tank (or excess flow port EF).
- \*To provide power to the controller, move the power switch to ON. (Red LED is ON when controller is powered).
- \*Minimum flow is directed into the valve when 0% on the dial is aligned with the center mark. Maximum flow is directed into the valve when 100% on the dial is aligned with the center mark.
- \*Once set, the regulated flow through the valve should remain relatively constant regardless of pressure. Within the operating range, flow varies approximately linearly with dial rotation. Clockwise rotation increases flow.

#### Adjustments:

- \*Normally no adjustments are needed for operation.
- \*Ref. see drawing 671300048 for adjustment information.



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