

READ THESE INSTRUCTIONS CAREFULLY BEFORE MAKING ANY ADJUSTMENTS TO THE ACTUATOR. THE ACTUATOR MUST BE SERVICED BY QUALIFIED PERSONNEL - COMPLYING WITH ALL APPLICABLE CODES, STANDARDS AND SAFETY REGULATIONS.

INTRODUCTION

This document provides instructions on how to reset the optional DPS kit used with Valworx 5610/5616 series electric actuators. The DPS kit is a factory installed option, but the setup can be changed in the field, if necessary.

EXPLANATION OF DPS KIT

The DPS Digital Positioner System is available as a factory installed option for Valworx 5610 and 5616 series electric actuators. Installing the DPS kit will change a standard On-Off type electric actuator to modulating or proportional control. This will allow positioning of the actuator output drive anywhere between 0 and 90° using either a 4-20mA, 0-10vdc or 1-10vdc input command signal. When using an electric actuated valve with DPS option, the output flow can be adjusted anywhere between 0-100%.

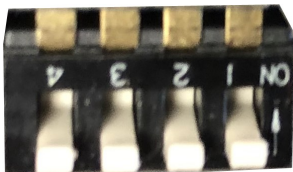
WARNING: Remove all electrical power to actuator prior to calibration. Do not touch any electrical components under the red cover. There is a risk of electrical shock.

REMOVING THE ACTUATOR COVER

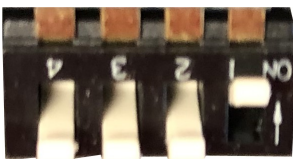
- Disconnect all electric power to the actuator
- Remove the black manual override knob
- Loosen hex screws and carefully remove red cover as shown.

DIP SWITCH RESET

- Set all the dip switches down to the off position.



- Apply only power to the actuator and your actuator should close with loss of control signal. Flip the dip switch labeled 1 up to the position. Your actuator should flash red, blue, and green.



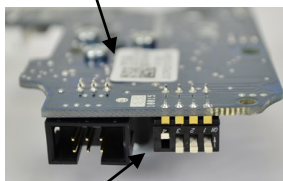
- Switch dip switch 1 down to the off position and your actuator should fully open and then return to the closed position.
- After the setup has completed, turn power off and set up your dip switches to the desired control configuration as shown on the right.

REINSTALLING ACTUATOR COVER

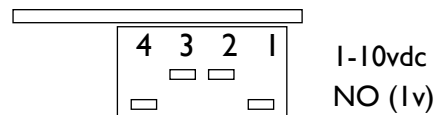
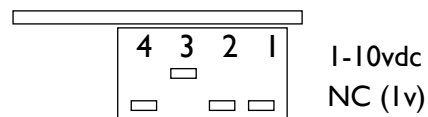
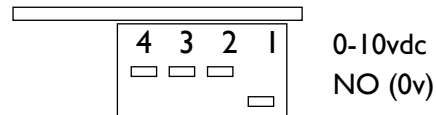
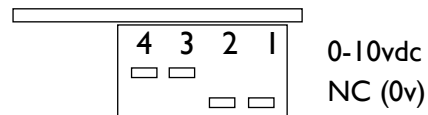
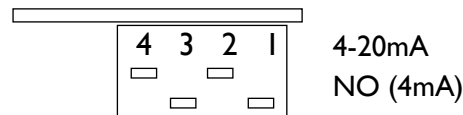
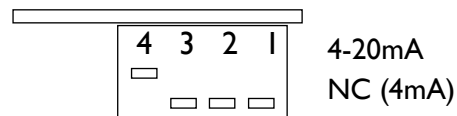
- Reinstall the red cover being careful with the loose wires and ensure all seals (gaskets) are in place. DO NOT FORCE THE COVER, this may damage the wiring, electrical components or knock the unit out of calibration. Tighten all cover screws securely.
- Reinstall the black manual override knob and secure with the socket head cap screw.
- Reinstall the manual override cover making sure groove in knob matches with groove in cover.



DPS control board



DPS Dip Switches



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INTRODUCTION

This document provides instructions on how to recalibrate or externally reset the optional DPS positioner used with Valworx 5610/5616 series electric actuators. The DPS kit is a factory installed option and calibrated at the factory prior to shipment. Typically, under normal conditions, there is no need to recalibrate, but the calibration can be reset in the field, if necessary.

EXPLANATION OF DPS POSITIONER

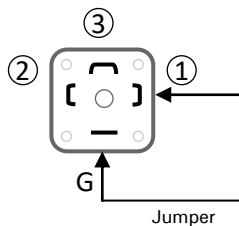
The DPS - Digital Positioner System is available as a factory installed option for Valworx 5610 and 5616 series electric actuators. Installing the DPS kit will change a standard On-Off type electric actuator to modulating or proportional control. This will allow positioning of the actuator output drive anywhere between 0 and 90° using either a 4-20mA or 0-10vdc input command signal. When using an electric actuated valve with DPS option, the output flow can be adjusted anywhere between 0-100%.

DPS POSITIONER EXTERNAL RESET

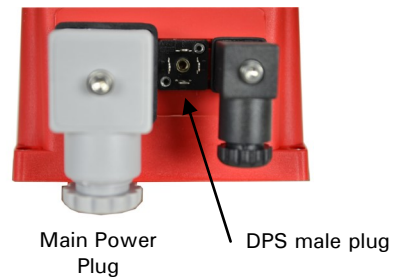
This procedure will recalibrate the actuator using the external mechanical reset method.

1. Take the actuator out of service and remove the power supply to the actuator by removing power connector or turning power off.
2. Remove the DPS female plug connector (center connector) from the actuator red cover.
3. Connect a jumper across Pin 1 and Pin G on DPS male connector.
4. Turn the power back on the actuator and wait until the LED light on the red cover turns solid red.
5. Remove the jumper wire between Pin 1 and Pin G.
6. The actuator will then go through a mechanical position reset.
7. When the reset is complete (closed to open and back to closed), turn the power back off.
8. Reconnect the control signal DPS female connector and turn power back on to test the actuator. This should complete the recalibration.

DPS Positioner Male DIN Plug



5610 series



5616 series

