

FIRST Valve Kit Assembly/Operating Instructions

Basic Valve Data

The VPLE18-M5H-4/2-1/4 valve is a 4 way, single solenoid, air piloted, 1/4" port, 12 volt coil valve. The maximum flow is 14cfm. The valve weighs 0.2lbs.

Typical Pneumatic Connection

The pneumatic connection for typical cylinder would be as follows:

Port 14 – Not Required (closed)

Port 1 – Tube to supply

Port 3 – Exhaust (to atmosphere)

Port 4 – Tube to cylinder back end

Port 2 - Tube to cylinder front end



Electrical Connection

Slide gray connector from black housing (can be pushed out from top with supplied screw), and wire per the following:

1 – Negative

2 – Positive

3 – Not required

Note: If the polarity is switched, the valve will still switch, but the LED will not work.

Operation

Voltage	Flow	LED	Cylinder Position
0	1 to 2, 4 to 3	Off	Rod retracted
12vdc	1 to 4, 2 to 3	On	Rod extended

Note 1: The minimum supply pressure is 30PSI. Below this pressure, the valve will stay in the 0 voltage position, regardless of the voltage condition.

Note 2: To achieve the opposite cylinder positions (0V = extended, 12V = retracted, simply switch the tubes from ports 4 and 2.

Manual Override

In order to operate the valve without an electrical signal (i.e. during testing), moving the blue switch in the direction of the arrow will shift the valve.