

#### **Warranty Information**

Solenoid valves and all other products manufactured by Spartan are warranted by Spartan to be free from defects in material and workmanship for a period of 1 year from the date of purchase. Spartan's obligation under this warranty is limited to repair or replacement of the defective product or refund of the purchase price paid solely at the discretion of Spartan and provided such defective product is returned to Spartan freight prepaid and upon examination by Spartan such product is found defective. This warranty shall be void in the event that the product has been subject to misuse, misapplication, improper maintenance, modification or tampering. This warranty is expressed in lieu of all other warranties, expressed or implied from Spartan Scientific, Inc., representatives or employees.

Series 2510, 3822 & 4200

# **Application and** Installation Guide



# Series 2510, 3822 & 4200 (Body Ported) #10-32, 1/8" NPT, 1/4" NPT Solenoid Valves Two-Way, Two Position, Normally Closed R (3) Unused Position 1) Coil De-energized. Pressure inlet port A (2) is closed from outlet port P (1). Port R (3) is unused. Position 2) Coil Energized. Pressure inlet port A(2) is connected Pressure Pressure to outlet port P (1). Inlet Outlet A(2) Two-Way, Two Position, Normally Open Outlet Port R (3) Position 1) Coil De-energized. Pressure inlet port A (2) is open to outlet port R (3). Port P is unused. Position 2) Coil Energized. Pressure inlet port A (2) is blocked Pressure to outlet port R (3). Inlet Port P (1) A (2) Unused Three-Way, Two Position, Normally Closed Exhaust Port R (3) Position 1) Coil De-energized. Pressure inlet port P (1) is blocked and outlet port A (2) is open to exhaust port R (3). Position 2) Coil Energized. Pressure

Outlet

A (2)

→ Port

inlet port P (1) is open to

outlet port A (2). Exhaust

port R (3) is blocked.

Pressure

Inlet

**Application and Installation Guide** 

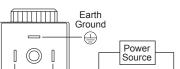
# Series 2510, 3822 & 4200

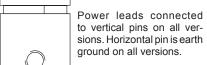
# **Application and Installation Guide**



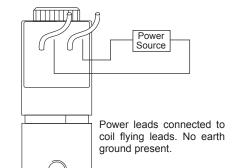
## Electrical Hook-Up

## Spade Style Coil



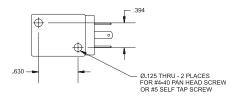


# Flying Lead Style Coil

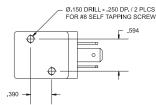


# **Mounting Diagram**

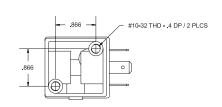
#### Series 2510



#### Series 3822



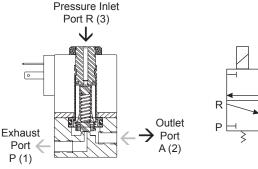
#### Series 4200

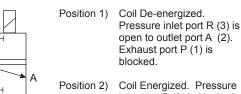


### Caution

Excessive use of pipe sealant can cause clogging and leakage. Please follow ASME standards for applying pipe sealant and tape. Do not use media, voltage or pressures other than that recommended by Spartan Scientific Inc. as valve malfunction could result. Misuse or misapplication of Spartan solenoid valves could cause serious bodily injury or property damage.

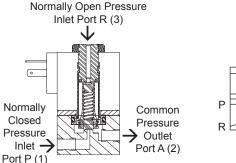
# Three-Way, Two Position, Normally Open

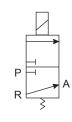




Coil Energized. Pressure inlet port R (3) is blocked, outlet port A (2) is connected to exhaust port P (1).

# Three-Way, Two Position, Mixing Function

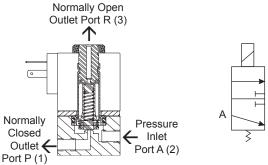


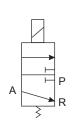


Coil De-energized, Position 1) normally open inlet R(3) connected to outlet port A (2). Port P (1) is blocked.

Coil Energized. Pressure Position 2) port P(1) is connected to outlet port A(2). Port R(3) is blocked.

### Three-Way, Two Position, Diverter Function





Position 1) Coil De-energized. Pressure inlet port A (2) is connected to normally open outlet port R (3) and normally closed outlet port P (1) is blocked.

Position 2) Coil Energized. Pressure inlet port A (2) diverts to normally closed outlet port P (1) and normally open port R (3) is blocked.