



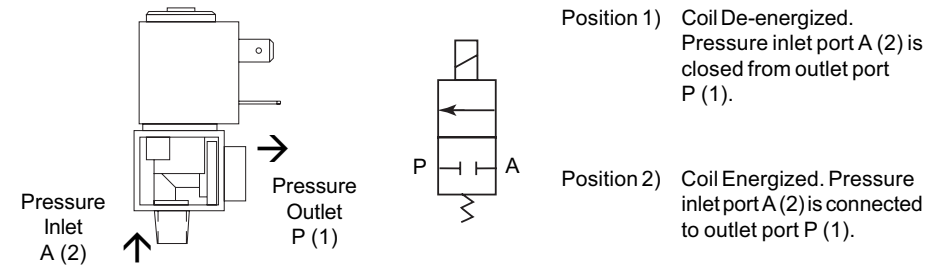
# Series 3824

## Application and Installation Guide

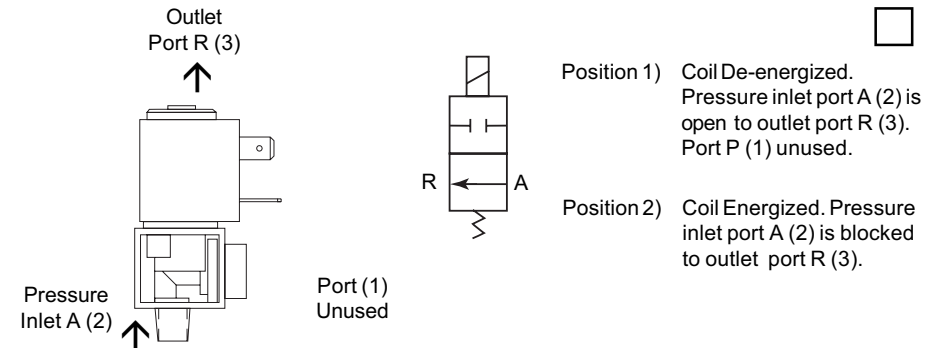


Series 3824 (Body Ported) 1/8" NPT Solenoid Valves

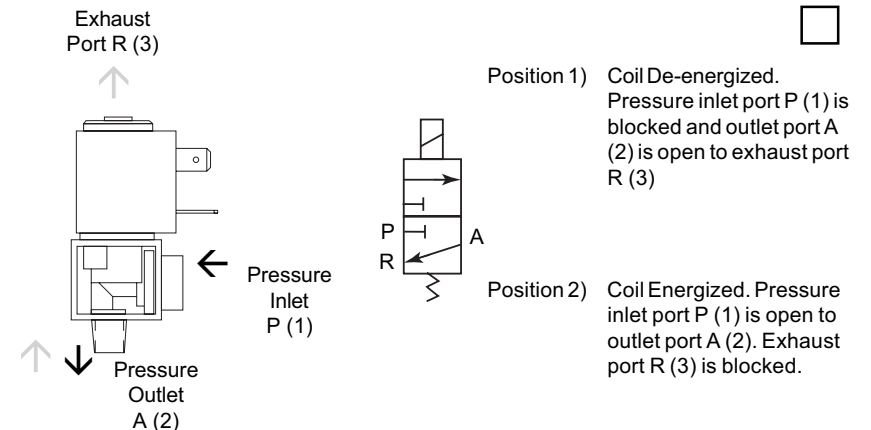
### Two-Way, Two Position, Normally Closed



### Two-Way, Two Position, Normally Open



### Three-Way, Two Position, Normally Closed



### Warranty Information

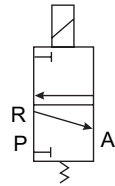
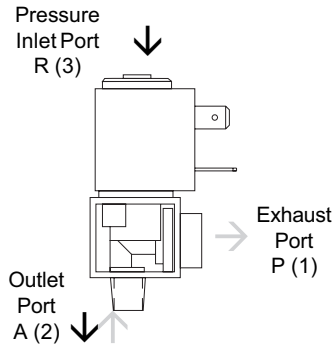
Solenoid valves and all other products manufactured by Spartan are warranted by Spartan to be free from defects in material and workmanship for a period of 1 year from the date of purchase. Spartan's obligation under this warranty is limited to repair or replacement of the defective product or refund 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.



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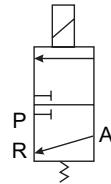
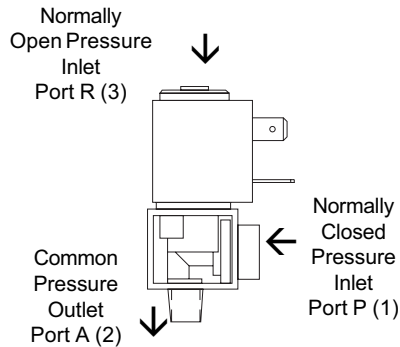
### Three-Way, Two Position, Normally Open



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

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

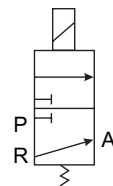
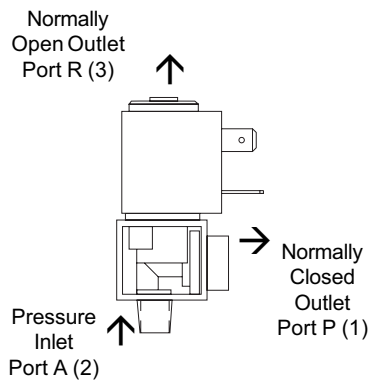
### Three-Way, Two Position, Mixing Function



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

Position 2) Coil Energized. Pressure 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.

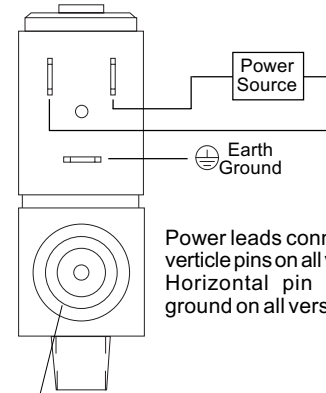
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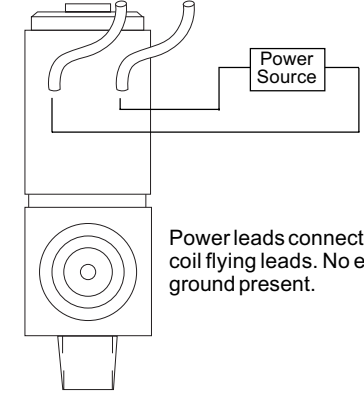
### Electrical Hook-Up

#### Spade Style Coil



Power leads connected to verticle pins on all versions. Horizontal pin is earth ground on all versions.

#### Flying Lead Style Coil



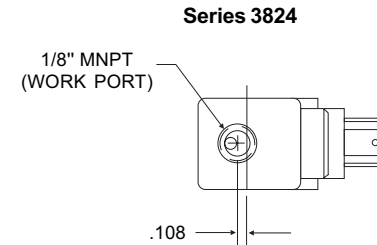
Power leads connected to coil flying leads. No earth ground present.

Warning! Plastic pipe threads.

Overtightening of fittings may result in premature part failure.

Spartan Scientific requests the use of plastic molded pipe fittings whenever possible. If metal fittings are used do not exceed a maximum of 45 in. lbs. of applied torque, or finger tighten and turn 2 1/2 turns with a conventional box end wrench.

### Mounting Diagram



### Caution

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.