4-Way Air Pilot Valve Models 4A110-4A410

PRODUCTION PARAMETER

1. The Anti-friction seal is added at both ends of the valve spool to make the valve spool more stable during the switching process and increase the valve lifetime.

2. Seals original imported from Japan; Optimize valve body inner flow path; Maximum increase the air flow area.
3. Valve Piloted Seat is from Taiwan, the surface design with 5 pcs stripe; Increased the strength of Manual ride spindle; The appearance is more distinctive.

4. The valve body surface treatment adopts a new environmental protection process.

5. Fully automated assembling & test line with good product consistency.

Installation & Operation

Note:

- This valve is designed for air flow only.
- Make sure the pilot source is operating at pressures specified for the valve.

Attaching the Pilot Source to a Valve:

1. Attach connector to the pilot port.

2. Connect pilot source to connector.

Installing a Valve onto a Manifold: Note:

- Manifolds can fit 2, 4, 6, 8 and 16 valves.
- Secure screws until the component will not move freely and tighten another quarter turn.

Procedure:

1. Place a rubber seal over the manifold openings.

2. Line up the valve with port “A” and corresponding pilot holes for the screws.

3. Secure the valve into place. 4. Cover the remaining holes with the provided gaskets.

Installation:

1. Connect the source to the port labeled “P”.

2. Connect the first outlet to the port labeled “A”.

3. Connect the first exhaust to the port labeled “EA”.

4. Connect the second outlet to the port labeled “B”.

5. Connect the second exhaust to the port labeled “EB”.

Maintenance and Troubleshooting

1. Remove any pilot connections attached to the valve.

2. Unscrew the pilot block and remove the piston and spring.

3. Check for any debris that may have collected on the piston and in the hole in the center of the valve.

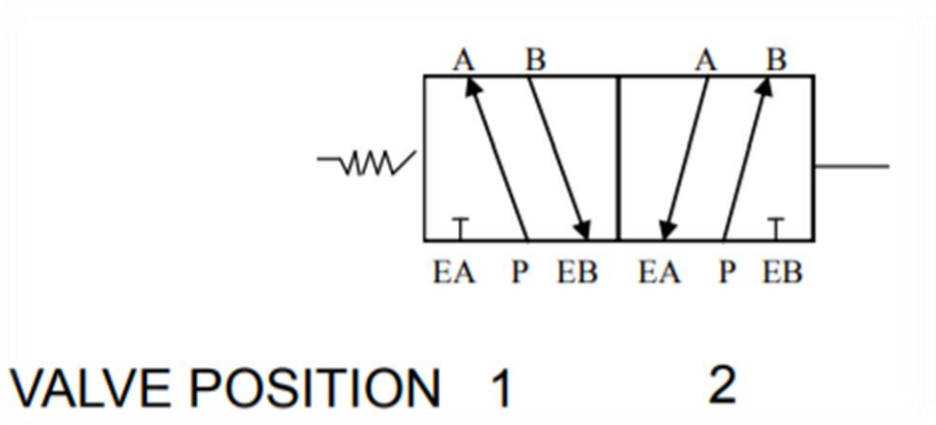
4. Insert the piston and spring back into the valve body.

5. Screw the pilot block back into the valve.

Operations:

1. When Valve is in Position 1, Port P is connected to Port A. Port B is connected to Port EB.

2. When Valve is in Position 2, Port P is connected to Port B. Port A is connected to Port EA.



4-Way Solenoid Air Valve Installation, Maintenance & Troubleshooting Guide

Warning: DO NOT over tighten the nut holding the coil to the armature tube. Over tightening may result in damage to the welded joint.

Note: This valve is designed for AIR FLOW ONLY. The use of filtered lubricated air will prolong the life of the valve & its internal components.

Attaching a Coil to a Valve:

- After wiring the coil, fit the coil assembly over the armature tube. Ensure that the threads of the tube are accessible.
- Fit the spring or lock washer over the assembly
- For spring washers, the concave side should be oriented toward the coil.
- Tighten the nut over the washer by hand.
- After an extended period of operation, the solenoid coil may burn out. This commonly occurs when input voltages are higher than the coil's specifications. If the valve does not make a clicking sound when energized/de-energized, the coil likely needs to be replaced.
- For standard washers, tighten the nut an additional ¼ turn with a wrench if necessary.
- For spring washers, continue to tighten the nut until the spring washer is almost completely compressed.