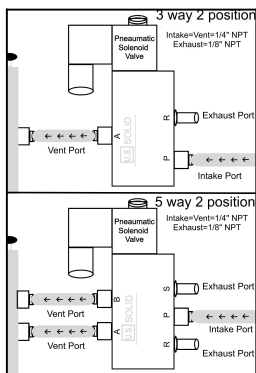


Thank you for purchasing your U.S. Solid pneumatic solenoid valve. We are happy to have you as a customer! We want you to get the most out of your new equipment, so we have included a few pointers to get you started.

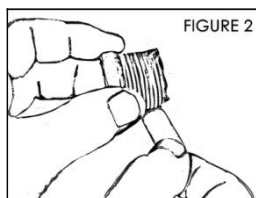


### FLOW DIRECTION

For 2/2-way valve confirms the flow direction based on the arrow symbol on the valve body. For 5/2-way and 3/2-way valves, please refer to the diagram on the left for the correct port connection method and flow path.

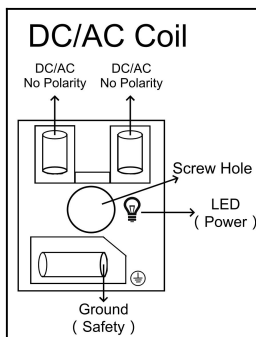
The standard configuration is:

- P = Intake port (Connect to the primary air supply)
- A/B = Vent ports (Connect to the cylinder or actuator)
- R/S = Exhaust ports (Used to release waste air)



### THREADING

U.S. Solid valves conform to National Standards for pipe thread. In the United States, we use NPT, whereas in Europe, we use BSPT. We advise using PTFE tape to ensure that the NPT threading is sealed properly. Please refer to the illustration on the left for further guidance.



### POLARITY

For valves with 2 wires, the valve will actuate regardless of which terminal each wire is connected to (+ or -). Some units, like those pictured to the left, include a ground wire. Open the junction box and locate the grounding wire as shown in the picture. For valves with a ground wire, please be sure to ground the valve. For the other two wires, the valve will actuate regardless of which terminal each wire is connected to (+ or -).

**WARNING-** Please be careful of the following to help ensure your safety and optimal performance over time.

**OVERHEATING**

These valves are not intended to be energized for more than 8 hours continuously. Although the power rating is low, the coil is housed in a contained area and can burnout if energized for excessive periods. If your application requires continuous operation, we recommend using a cooling fan to maintain the coil temperature.

**PRESSURE REQUIREMENTS**

This is an internally piloted valve. All solenoid valves of this type need a minimum pressure to actuate. If there is no air pressure, the valve will not function correctly even when electrical power is supplied.

**PARTICLE-FREE AIR**

Ensure the air is filtered and particle-free. Contaminants clinging to gaskets can cause leaks, mechanical failure, or poor sealing over time.

We realize that other questions or concerns may arise during the installation and operation of your valve. Please contact us or visit our website for help.

Email: [service@ussolid.com](mailto:service@ussolid.com)  
Website: [www.ussolid.com](http://www.ussolid.com)

**DRINKING WATER SAFETY**

The valve body is constructed from Aluminum Alloy, which is lead-free. While primarily designed for pneumatic systems, the material itself is compatible with drinking water standards.

**WATER RESISTANCE**

The valve has an ingress protection rating of IP65, meaning it is dust-tight and protected against water jets. However, it is NOT waterproof for submersion.

**INSTRUCTIONS on ENVIRONMENTAL PROTECTION**

At the end of its life cycle, please do not dispose of this equipment by throwing it in the usual  
UK D53670YF Instead, hand it over at a collection point for the recycling of electrical and electronic appliances. It does not contain dangerous nor toxic products for humans, but inadequate disposal could still damage the environment. The materials are recyclable as mentioned. By recycling material or through other forms or repurposing old appliances, you are making an important contribution to the protection of our environment. Please inquire with your local community authorities for the proper disposal location.

**WARRANTY:** All U.S. Solid solenoid valves come with a one year warranty.