

Air Solenoid Valve Assembly for POD

P-AIR-2159



What is the Air Solenoid Valve:

- The air solenoid valve is used in our detergent pod to apply air to our “Air Driven Chemical Valve” which when opened allows water to flow through the chemical injector and applies product out to the various functions.

Air Driven Chemical Valve →



How Does it Work:

- The Air Solenoid Valve uses an electric coil to open and close air passages, when the coil is energized it changes the air flow from port “A” to port “B” in most applications port “A” is plugged off so there isn’t constant air flow. In some cases, we plug port “B” or neither of them depending on the application.

Helpful Information:

- There is a red pushbutton on the front of each valve, this pushbutton is used for manual bypass, if the electrical part isn’t functioning, this is useful for testing purposes. This button also turns to lock it into place so if a function is staying on when you are not holding it this could be a possibility.
- The coil is typically fed with 110vac but in some application can be used with 24vdc the best way to tell which system you have is by looking at the side of the coil.



← Coil

- We use a Turck block and Turck cable to apply power to the coil, the Turck cable has a built in LED indicator light when it is powered on. This indicator light is one of the quickest easiest ways to determine if you are getting power to the coil, if the light is on and the solenoid doesn’t open you most likely have a bad coil. If the light doesn’t come on you should inspect to see why you don’t have power going into it, possibly a bad fuse or relay inside the MCC.

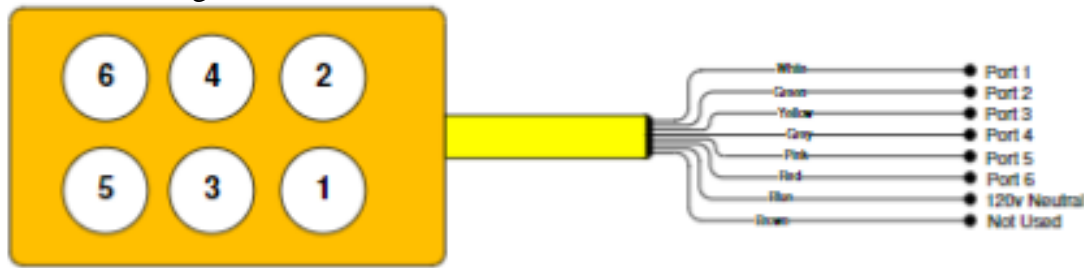
Turck Block



Turck Cable



- The Turck block is wired to the MCC outputs, see diagram for port wire configuration



- The valves are not designed to handle full air compressor pressure so, ensure that your regulator is in use and set to the right pressure (we recommended 80psi)



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* Prices subject to change without notice and do not include tax, shipping, or installation



Air Solenoid Valve Assembly for POD

Part Number: P-AIR-2159

Description: Single Solenoid Valve Assembly 5/2, Internally Piloted, 1/8 NPT, Cv=0.78, 120VAC

Site Map: Tommy Store > Parts > . > Parts by Type > Air Solenoids

Price: \$30.00



Detailed Description

M4V-Series valves feature single or double solenoid operation and are internally piloted for high flow and lower power consumption. This compact valve line is ideal for inline or manifold applications when paired with MFD M-Series manifolds. Solenoids come with compatible DIN connectors that feature an internal indicator LED and all M4V-Series valves come standard with locking manual overrides.

Specifications

Media Air
Operating Internally Piloted
Orifice Size Cv 0.78
Port Size 1/8 in. NPT
Lubrication Not Required
Minimum Pressure 21 PSI
Maximum Pressure 114 PSI
Minimum Temperature -23 °F
Maximum Temperature 140 °F
Power Consumption 120V AC: 8.5 VA
Insulation F Class
Protection IP IP65 (DIN40050)
Connection DIN Connector (Included)
Maximum Frequency 5 cycles per second
Activation Time 0.05 seconds
Type 5 Port 2 Position
Proof Pressure 170 PSI