Updated August 2019

INTRODUCTION: Air Solenoid Valve Assembly for POD

What is the Air Solenoid Valve?

The air solenoid valve is used in our detergent POD to supply air to the Air Driven Chemical Valve, which when opened allows water to flow through the chemical injector and supplies product to the various car wash functions.

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 is NOT constant air flow. In some cases, we plug port "B" or neither port depending on the specific application.

Helpful Information:

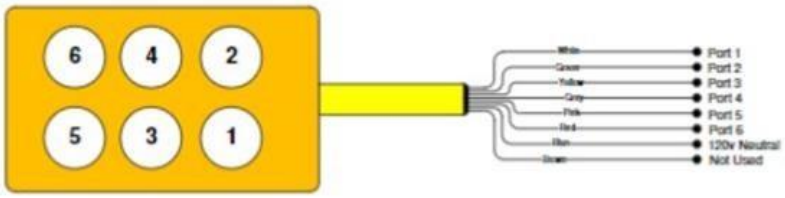
There is a red pushbutton on the front of each valve which is used for manual bypass in the event the electrical part isn't working and needs to be tested. This button also turns to lock it into place, resulting in a function remaining on.

The coil is typically fed with 110vac but in some applications can be used with 24vdc. The best way to tell which system you have is by looking at the information recorded on the side of the coil.

We use a Turck block and Turck cable to supply power to the coil. The Turck cable has a built in LED indicator light which illuminates when powered on. This indicator light is one of the quickest and 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 – possibly a bad fuse or relay inside the MCC.

TURCK BLOCK

TURCK CABLE



Please note that the air solenoid 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).