O-600 PNEUMATIC VALVE

| Required knowledge | Ohm's Law, Pneumatic Valve |

JUST Google It!	**pneumatics, pneumatic valve**

With a Pneumatic valve we can use our Brainbox to control pneumatic cylinders or other pneumatic equipment.

Sturing: +12V

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Mead Isonic V2 Valve
Three-way, two-position (3/2), normally closed solenoid valve

Voltage applied energizes the solenoid, opening path from Port 1 to Port 2.

MEAD a BIMBA
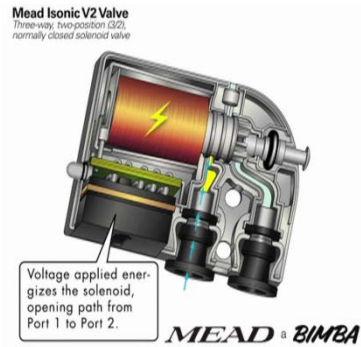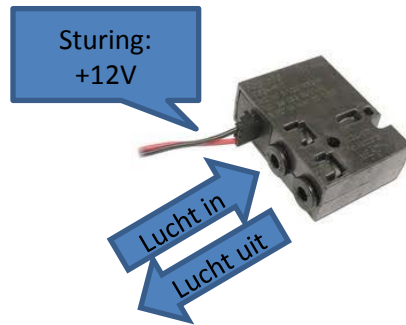
| Pneumatic Valve | Own choice or Mead Isonic (http://www.matrixmultimedia.com/automatics.php) |

1. Connect the pneumatic valve to an external power supply and determine these things:
   - What is the working voltage of this Valve 5V, 9V, 12V?
   - How much current doe this valve draw from the supply? (should be less than 600mA else choose for a Relay or Mosfet)
2. Put jumper 2 in the correct position

Valve voltage	Adapter voltage	Jumper 2 position
5V	9V of 12V, …	5V from adapter
9V	9V	7-16V
12V	12V	7-16V

3. Connect the valve between one of the outputs of the L293 (D5, D6, D9, D10) and the GND of the Brainbox. This way we can drive 4 valves with the Brainbox.
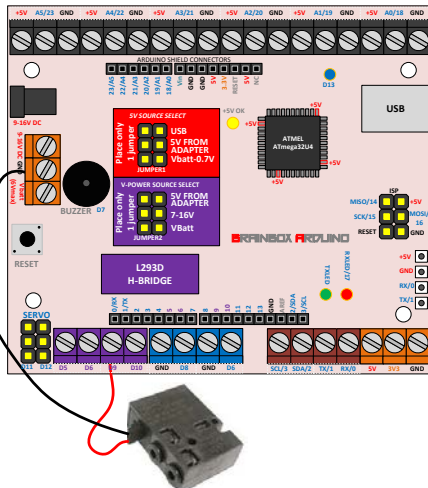
4. Use the programming sequence: "**O-600**" and make pin D9 high when you want that air can pass the valve. Make pin D9 low when you do not want air to pass the valve.