

SENSORS / LIQUID/FLOW

## Brass Liquid Solenoid Valve – 12V – 1/2 NPS

PRODUCT ID: 996



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## DESCRIPTION

Control the flow of fluid using the flow of electrons! This liquid valve would make a great addition to your robotic gardening, aquarium, or pool project. There are two 1/2" (Nominal NPS) outlets. Normally, the valve is closed. When 12VDC is applied to the two terminals, the valve opens and water can flow. Unlike the plastic solenoid valve, this one does not have a gasket, so there is no minimum pressure requirement.

We tried this solenoid at various DC voltages and found we could actuate it down at 6VDC (although it was a little slower to open). Here is the current draw table for various voltages. We suggest a TIP120 or N-Channel power FET with a 1N4001 kickback diode to drive this from a microcontroller pin. For a power supply, our 12V 5A power adapter will do the job.

If you want smaller, more basic valve, we also carry a plastic version which does have a minimum pressure requirement but has much lower power requirements!

Voltage	Current
6V	1.6 A
7V	1.86 A
8V	2.0 A
9V	2.3 A
10V	2.5 A
11V	2.7 A
12V	3 A

These solenoids are not rated for food safety by any official standards. However, they are made of cast brass, with a rubber gasket made of NBR (Nitrile Rubber) so it can be used with any fluid that will not damage or be damaged by the rubber gasket material.