

Valve Power Characterization

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The 12V solenoid valve was connected to a power supply and the current was measured. It consumed 288mA at 11.1V (3.2W) and actuated successfully. The valve successfully actuated down to approximately 7.6V where it consumed around 100mA. It was then tested with the Arduino Uno board and an NPN BJT wired as it will be in the final design. The transistor at hand could not drive enough current to open the valve, but by measuring voltages and currents, the general circuit design was validated.