



**Application Note**

**HAU Valve Driver**

**USING A SWITCH TO DRIVE TWO COILS**

To switch the valve between two different coils, wire in a coil selector switch and diodes as shown above.

Due to arcing, diodes must be wired across the coils to prevent damage to the coil selector switch, the valve coils, and the valve driver. For safety, the diodes should be rated with a voltage rating of at least twice the power supply voltage and a current rating of at least half of the coil current. We recommend using a higher voltage diode in systems with large voltage spikes.

The coil selector switch may be placed in the + coil leads if desired.

Recommended diodes:

For up to 1.5A coil applications use a 1N4003

For up to 5A coil applications use a 1N5402

