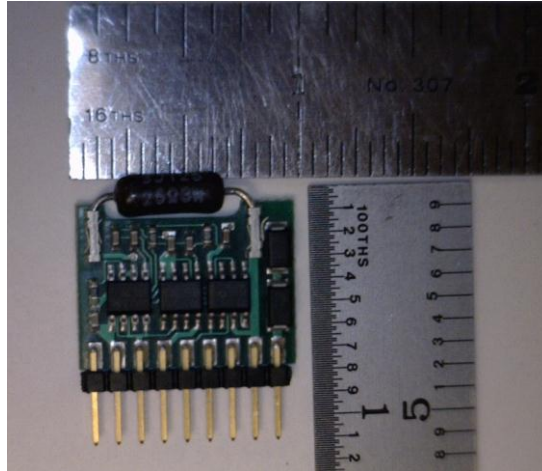


CoolDrive® ONE Single Valve Drivers



The CoolDrive® One Single Valve Driver circuits by Valcor Scientific, complement Valcor Scientific's SV74, SV75 & SV76 Series of solenoid valves. Main applications include valves with extended energized periods, and/or high duty cycle.

The CoolDrive® One Single Valve Driver drives one single solenoid, eliminating the need to purchase the Original 5 Channel CoolDrive® board – perfect for smaller applications or prototyping, offering unmatched flexibility in creating new, or expanding existing valve networks.

CoolDrive® One Single Valve Driver provides full power management, including automatically applied holding voltage. A high logical level signal at the control input will energize the connected valve. The holding voltage is one third of the full rated voltage for most standard solenoid valves, achieved by interchangeable resistors, within approximately 110 ms of activating the solenoid.

The CoolDrive® One Single Valve Driver circuit significantly reduces valve turn-off delays (response time) compared to commonly used valve-driving techniques. The CoolDrive® One Single Valve Driver circuit in conjunction with Valcor Scientific solenoid valves will result in extended valve life and reduced overall power consumption required to operate your valves. By utilizing a holding voltage, over-heating the solenoid valve is eliminated, extending the valves' probable life, while reducing the risk of transferring heat to process media. In addition, the holding voltage lowers overall power consumption by not requiring the full rated voltage to hold the solenoid open or energized.

Using Valcor Scientific CoolDrive® One Single Valve Drivers in conjunction with Valcor Scientific solenoid valves will give you the most dependable, compact, and cost-effective valving solution available anywhere. Save time and resources designing your own driving electronics, rely on a proven bulletproof design, our CoolDrive® One Single Valve Driver Modules.

CoolDrive® Technical Information

SPECIFICATIONS	12 VDC	24 VDC
SV61D1Xxx	Power inputs: VCC 5 to 7 volts Valve Power: 12 volts DC minimum 94mA / Valve at 12 volts DC Outputs: Solenoid coil resistance 127 Ohms Maximum current 400mA each driver	Power inputs: VCC 5 to 7 volts Valve Power: 24 volts DC minimum 48mA / Valve at 12 volts DC Outputs: Solenoid coil resistance 500 Ohms Maximum current 400mA each driver
SV25D1Xxx	Power inputs: VCC 5 to 7 volts Valve Power: 12 volts DC minimum 133mA / Valve at 12 volts DC Outputs: Solenoid coil resistance 90 Ohms Maximum current 400mA each driver	Power inputs: VCC 5 to 7 volts Valve Power: 24 volts DC minimum 70mA / Valve at 12 volts DC Outputs: Solenoid coil resistance 345 Ohms Maximum current 400mA each driver
SV60D1Xxx	Power inputs: VCC 5 to 7 volts Valve Power: 12 volts DC minimum 353mA / Valve at 12 volts DC Outputs: Solenoid coil resistance 34 Ohms Maximum current 400mA each driver	Power inputs: VCC 5 to 7 volts Valve Power: 24 volts DC minimum 171mA / Valve at 12 volts DC Outputs: Solenoid coil resistance 140 Ohms Maximum current 400mA each driver
SV48D1Xxx	Power inputs: VCC 5 to 7 volts Valve Power: 12 volts DC minimum 600mA / Valve at 12 volts DC Outputs: Solenoid coil resistance 20 Ohms Maximum current 600mA each driver	Power inputs: VCC 5 to 7 volts Valve Power: 24 volts DC minimum 308mA / Valve at 12 volts DC Outputs: Solenoid coil resistance 78 Ohms Maximum current 400mA each driver