



## DESCRIPTION

The SV28 Proportional Solenoid Valves are precision-built 2-way control valves. With a life of over a billion cycles, a solid, compact design, and extremely high flow rates, these valves are suitable for many applications across numerous industries.

These valves provide air or gas flow control, and varies the output flow based on the current input to the solenoid.

## APPLICATION

The valve may be controlled using DC current, open or closed-loop control, and even PWM (Pulse Width Modulation) to cover a large range of applications.

## FEATURES

- Industry standard for leak-free operation
- Over 1,000,000,000 cycles
- Extremely low hysteresis
- Fast response time
- Large flows in small, sleek design
- Low heat rise/low power

## VALCOR SV28 SPECIFICATIONS

### Specifications

Valve Type	2-Way, Proportional
Medium	Air & Compatible Gases (40 micron filter)
Pressure Range	Vac* to 100 psig
Max. Hysteresis	10% of full current
Max. Flow Tolerance	+10%/-0%
Power Consumption	1.9 watts at 72°F, 2.5 watts max
Temperature Range	32 to 120°F
Voltage	10 or 20 VDC
Mounting	Manifold, #10-32 Male Stud
Seal Material	FKM standard, Nitrile, EPDM, and Silicone optional
Wetted Materials	Stainless Steel, PPS
Certifications	CE, RoHS, REACH

\*Vacuum applications are reverse flow.

Although voltage is an important issue, the current is somewhat more important. It is crucial to specify and use a calibrated valve that matches your application. Be sure to use a valve set to your operating pressure to assure you have an overall good performing valve for your exact requirements.

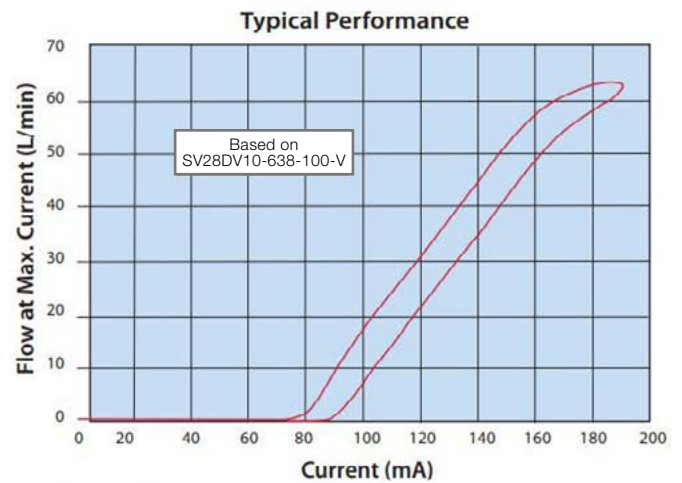
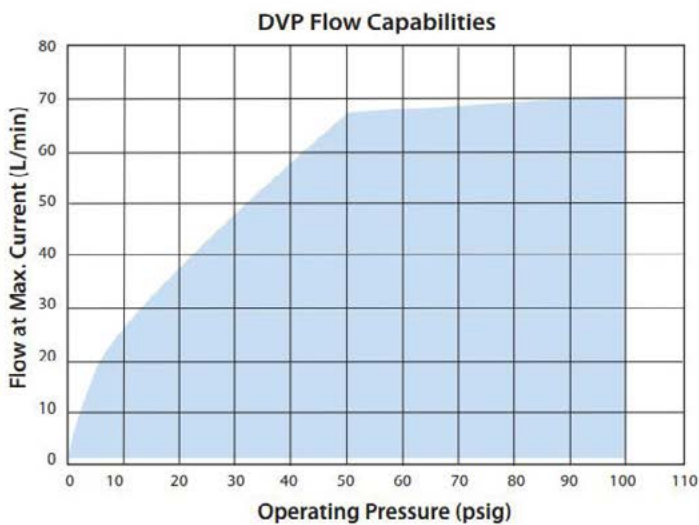
Proportional flow is achieved by varying the current input to the valve.

Nominal Voltage Range at 72°F	Input Current Range	Coil Resistance at 72°F	Max. Voltage Required
0 to 10 VDC	0 to 0.190 amps	52.6 ohms	13 VDC
0 to 20 VDC	0 to 0.095 amps	210.5 ohms	26 VDC

### Pressure & Flow

In selecting your valve, reference the SV28 Flow Capabilities Chart shown below and list your Nominal Operating Pressure in a 3-digit format (065=65 psig). Next specify your desired Max. Flow Rate for your pressure (500=50.0 L/min). Accurately specify your Nominal Operating Pressure and Flow to assure the best performance and resolution for your application.

For Nominal Operating Pressure under 5 psig, use a 005 designator for Pressure. For Vacuum applications use the positive pressure equivalent and reverse the ports.



\* Call for custom flow and pressure configurations

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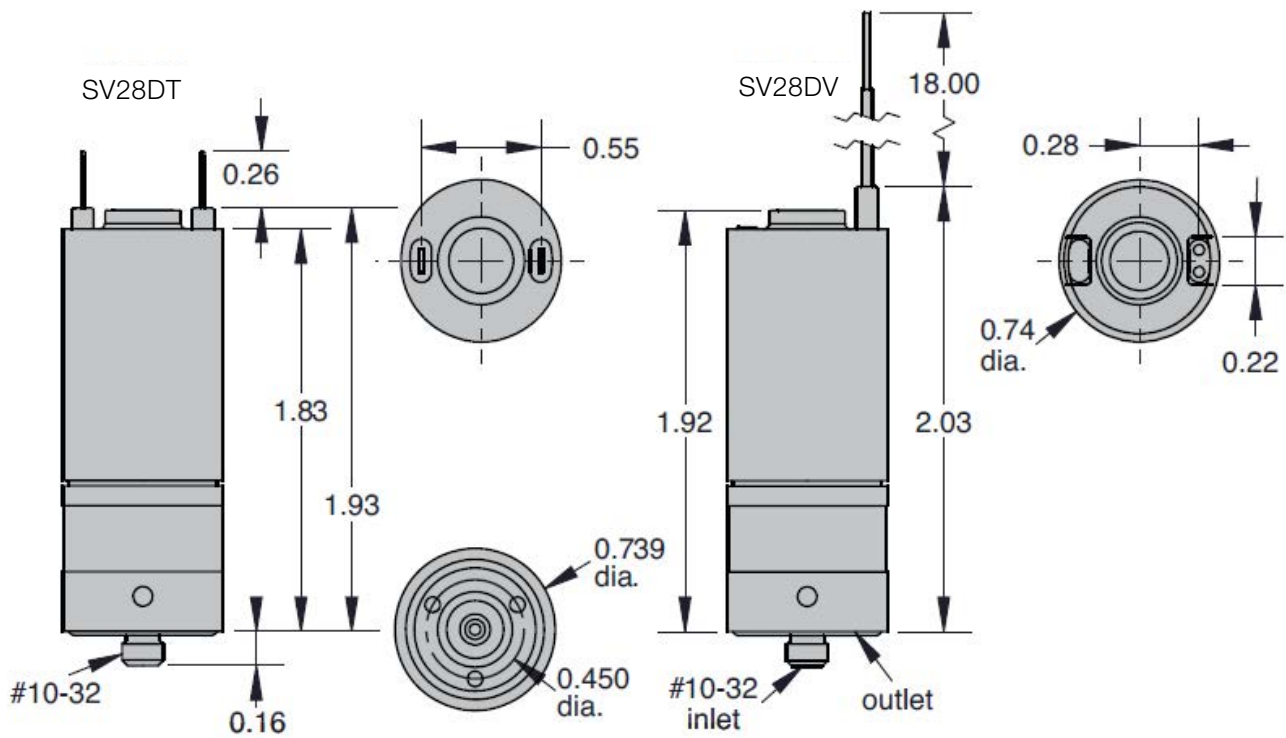
### Parts

Valcor P/N	Description	Type	Flow	Pressure	Elastomer	Ports I/O
SV28DT10-XXX-XXX-X	10 Volt Proportional Valve	Spade Terminal	010-678	005-100	Blank (Nitrile)	10/32
SV28DT20-XXX-XXX-X	20 Volt Proportional Valve	Spade Terminal	010-678	005-100	V (FKM) Standard	10/32
SV28DV10-XXX-XXX-X	10 Volt Proportional Valve	Wire Leads	010-678	005-100	E (EPDM)	10/32
SV28DV20-XXX-XXX-X	20 Volt Proportional Valve	Wire Leads	010-678	005-100	S (Silicone)	10/32

### Example Part Number

Valcor P/N	Description	Type	Flow	Pressure	Elastomer	Ports I/O
SV28DT10-100-500-V	10 Volt Proportional Valve	Wire Leads	10.0 L/Min	50 PSIG	Viton O-Ring	10/32

### Dimensions



### SINGLE-STATION MANIFOLD

Construction ENP brass standard. Other materials available.

