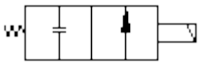
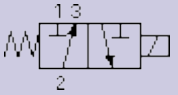
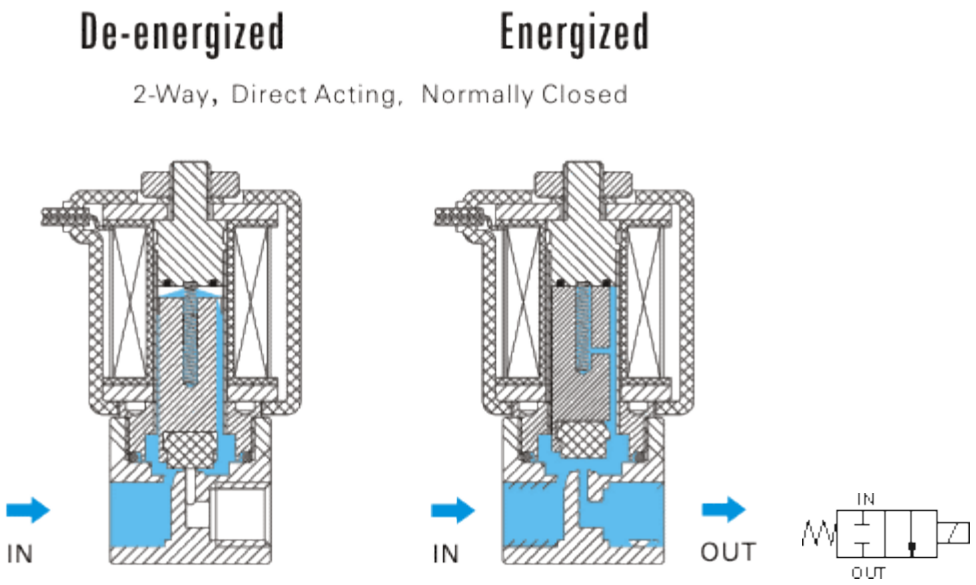
Solenoid Valve Specifications and Dimensions: 2V025 & 2V035 Series

Part No.	Unit Price	Valve Picture	Port Size (NPT)	Voltage Options	Electrical Connection	Port No/ Position/Solenoid	Cv Flow Rate Operating Temp/Pressure	Resp. Time	Power Rating	P=Inlet Port A, B =Outlet Port E, R, S=Exhaust Port
2V025 1/8	$19.75		1/8 NPT	**1=12VDC** **2=24VDC** 2A=24VAC **3=110VAC** 4=220VAC (50/60Hz)	**G=Grommet** **D= DIN (with LED indicator)**	**2/2/1** **Direct Acting** **Normally closed** **Two Way Valve**	**Cv0.23** **Orifice=2 MM** **22 SCFM @100 PSI** 0-115 PSI	**< 20 ms**	**3W for 40PSI** **4.8W for 60 PSI** **6.5W for 115 PSI**	
2V025 1/4	$19.75		1/4 NPT							
2V035 1/8	$19.75		1/8 NPT	**1=12VDC** **2=24VDC** 2A=24VAC **3=110VAC** 4=220VAC (50/60Hz)	**G=Grommet** **D= DIN (with LED indicator)**	**3/2/1** **Direct Acting** **Normally closed or open** **Three Way Valve**	**Cv=0.05** **Orifice=1 MM** **5 SCFM @100 PSI** 0-115 PSI	**< 20 ms**	**3W for 40PSI** **4.8W for 60 PSI** **6.5W for 115 PSI**	
2V035 1/4	$19.75		1/4 NPT							

2V025 & 2V035 Series Valve Specifications	
Port & Mounting	Body Ported
Action & Motion	Direct Acting, Normally Closed, Two Position, 2 to 3 Way
Operating Pressure	28" Hg to 115 PSI (Coil Wattage Dependent)
Working Medium	air, inert gas & liquid
Operating Temperature	(-5 to 80 Deg. C) with non-freezing medium
Coil Insulation & Protection Class	F Class, IP65 (CE Certification)
Coil Duty Cycle	100% ED
Electrical Connection	D = DIN (with LED indicator, conduit terminal) G = Grommet (12” Lead Wire)
Body Material	Anodized Aluminum
Seal Material	NBR (Buna N)
Armature Tube	Brass
Plunger & Spring	Stainless steel
Lubrication	Not Required

Electrical Coil Connections	
For DIN Coil	**To connect DIN coil:** 1. Remove the Philip screw from the plastic housing and unplug it from the DIN coil. 2. From the screw opening, push the terminal block out from the plastic housing. 3. Note the 1, 2 and ground markings on underside of DIN enclosure. 4. For DC DIN Coil, Connect 1 to Positive, 2 to Negative. 5. For AC DIN Coil, connect 1 to HOT wire, 2 to Neutral wire, and if required connect ground to ground wire.
For Grommet Coil	**To connect Grommet coil:** 1. For DC Coil, connect one of the two wires to Positive, and the other wire to Negative. 2. For AC Coil, connect one of the two wires to HOT wire, and the other wire to neutral wire.

2V025-35 Series Valves are DIRECT ACTING solenoid valves and do not require a minimum operating differential pressure. As shown below when the coil is energized (right diagram), it lifts the solenoid plunger, which normally rests on the valve seat and lifts it to open the main valve orifice. When the coil is de-energized (right diagram), the spring force the plunger return to the valve seat to close the valve orifice.



STC's high performance direct acting solenoid valves offer reliability, compact and rugged designs, low power consumption, high-speed response, long life cycle - over 10 million cycles, DIN connections with indicator lights, pre-wired electric connections, manifold mounting options, and simple installation, maintenance, and control.

STC Solenoid Valve Dimensions (UNIT=MM)