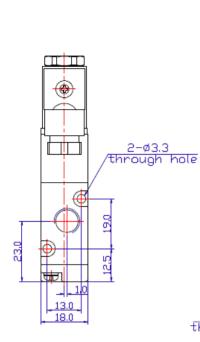
3V110-410 SERIES SOLENOID VALVE

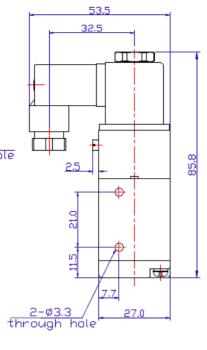


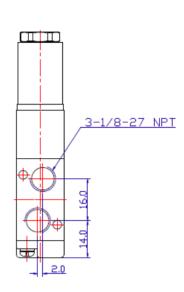
Valve Model	3V110-1/8	3V210-1/4	3V310-3/8	3V410-1/2
Port & Mounting	Body Ported			
Action & Motion	Air Pilot, Spool Design, Response Time <20 ms			
Operating Pressure	21-115 PSI			
Port Sizes	1/8 NPT	1/4 NPT	3/8 NPT	1/2 NPT
Operating Temp.	14-140 °F			
C _v	0.67	0.89	1.68	2.79
SFCM @ 100PSI	25	53	80	160
Manual Override	Detentable			
Electrical Connection	Grommet, DIN			
Working Medium	40 micron filtered air or inert gas			
Coil Insulation & Pro- tection Class	IP 65, Class F			
Coil Duty Cycle	100% ED			
Coil Voltage Options	Options: 12, 24 VDC; 24,110/120, 220/240 VAC (50/60Hz)			
Coil Power	2.5W 3/4.8W			
Valve Body Material	Anodized Aluminum			
Seal Material	NBR (Buna N)			
Lubrication	Not Required			

3V110-410 SERIES SOLENOID VALVE DIMENSIONS

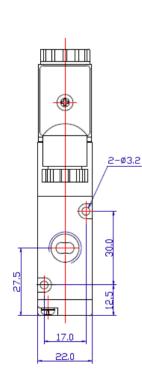


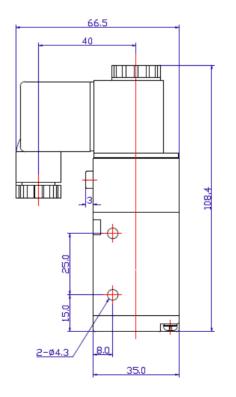


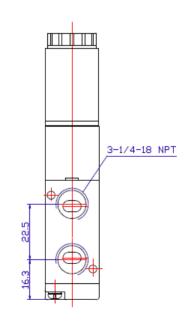




TYPE:3V210-1/4

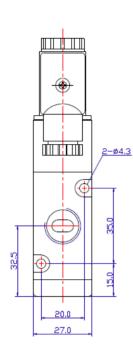


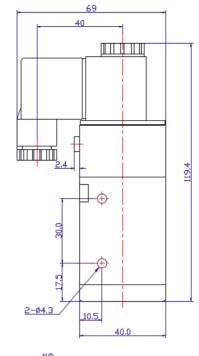


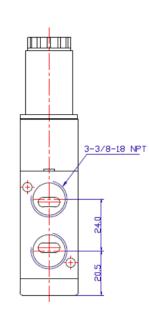


3V110-410 SERIES SOLENOID VALVE DIMENSIONS







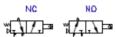


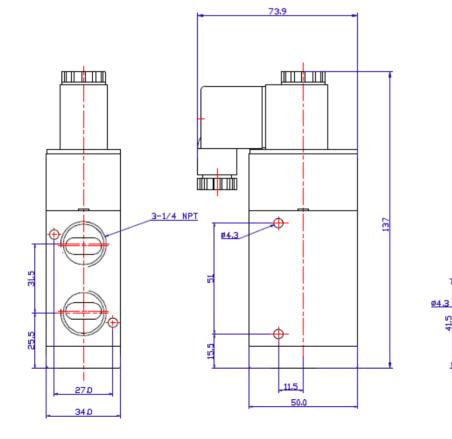
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TYPE:3V410-1/E





3-Way Solenoid Valve Models 3V110-3V410 Installation Procedure

Note: This valve is designed for air flow only.

Warning: Do NOT over tighten the nut holding the coil to the armature tube. Over tightening may result in damage to the welded joint.

Attaching a Coil to a Valve:

- 1. After wiring the coil, fit the coil assembly over the armature tube. Ensure that the threads of the tube are accessible.
- 2. Fit the spring or lock washer over the assembly.
 - For spring washers, the concave side should be oriented toward the coil.
- 3. Tighten the nut over the washer by hand.
 - For spring washers, tighten the nut further until the spring coil is almost completely flat.
 - For lock washers, tighten the nut another quarter turn.

Installing a Valve onto a Manifold:

Note:

- Manifolds can fit 2, 4, 6, 8 and 16 valves.
- Secure screws until the component will not move freely, and tighten another quarter turn.

Procedure:

- 1. Place a rubber seal over the manifold openings.
- 2. Line up the valve with port "A" and corresponding pilot holes for the screws.
- 3. Secure the valve into place.
- 4. Cover the remaining holes with the provided gaskets.

Installation:

- 1. Connect the source to the port labeled "P".
- 2. Connect the outlet to the port labeled "A".
- 3. Connect the exhaust to the port labeled "EA".

Maintenance and Troubleshooting

Note: After an extended period of operation, if you do not hear a clicking sound when the valve is operational, and the wiring is correct, the coil may be burned out and must be replaced. This commonly occurs when input voltages are higher than the coil's specifications.

Procedure:

- 1. Remove any coils attached to the valve.
- 2. Unscrew the holding plate and the armature tube and remove it from the valve body. Remove the piston and the spring.
- 3. Check for any debris that may have collected on the piston and the hole in the center of the valve.
- 4. Insert the piston and spring back into the valve body.
- 5. Screw the armature tube and holding plate back into the valve.

Reference Figures

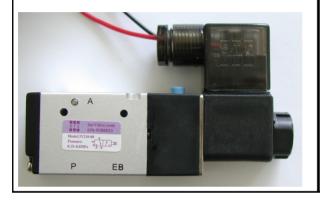


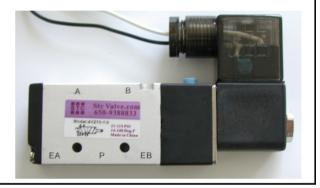
Figure 1: Model 3V110 with port labels shown.

Installation of 3V100-400 and 4V100-400 Solenoid Valves

Connect the 3V100-400 3 way valve inlet and out as shown in the diagram :

P = Air Supply Port A = Outlet A Port EA/EB = Exhaust Outlet A (Connection Optional) Connect the 4V100-400 4 way valve inlet and out as shown in the diagram : P= Air Supply Port A = Outlet A Port B = Outlet B Port EA = Exhaust Outlet A Port (Connection Optional) EB = Exhaust Outlet B Port (Connection Optional)





Connection of 3V100-400 & 4V100-400 Solenoid Coils

Electrical Connections

To connect DIN coils:

- 1. Remove the Philip screw from the plastic housing and unplug it from the DIN coil.
- 2. From the screw opening, use the screw to push the terminal block out of 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.

To connect Grommet coils or Lead Wire DIN coils:

DC Coil:

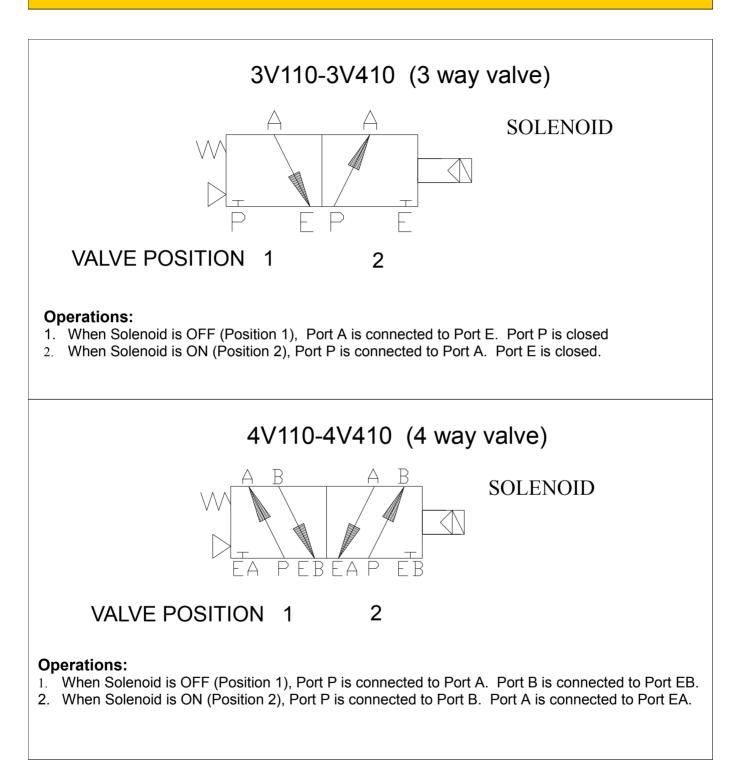
- 1. If the DC solenoid coil has a red and a black wire, Connect Positive to RED wire and Negative to Black wire.
- 2. If the DC solenoid has two same color wires, connect Positive to one of the two wires and Negative to the other wire.

AC Coil:

- If the AC solenoid coil has a black a white wire, Connect the HOT wire to BLACK wire and Neutral to WHITE wire.
- 2. If the AC solenoid has two same color wires, connect HOT wire to one of the two wires and NEUTRAL wire to the other wire.



STC Installation and Operation Procedure 3V110-3V410 & 4V110-4V410 Solenoid Valves





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No merchandise is accepted for return 30 days after delivery date. No credit allowed on merchandise shipped as ordered and returned without obtaining an authorization number IN ADVANCE. A 20% restocking charge applies to all returns, and transportation charges must be fully prepaid. We will pay ground transportation charges on re-sent or returned merchandise due to STC's error. Shortages & Mis-Shipments: Any shortages or mis-shipment must be reported within 15 days.

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Credit Application: To establish a net 30 day account, please mail or fax three trade references with complete mailing addresses and account numbers.

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Sizto Tech Corporation (STC) only warrants this product to be free from defects in materials and workmanship at the time of shipment. This limited warranty expires one year after delivery to the end-user. STC's entire obligation to the Purchaser for breach of this limited warranty shall be limited to replacement of the defective product or refund of the original purchase price of this product, at STC's option. Purchaser has thirty (30) days to return the goods after STC has agreed to accept the return. All freight charges on returned material shall be paid by the Purchaser. STC's limited warranty shall not apply, however, to the product that have been subjected to misuse, alteration, accident or negligence during handling or storage.

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OBLIGATIONS

You warrant, represent and agree: (1) to comply with all laws; (2) that our sale and shipment of the product will not, by export thereof, your legal status or otherwise, cause us to violate any law; and (3) to indemnify us against any losses from a failure by you or a third party to comply with law or these terms and conditions, or from use of the product.

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