

Automation & Controls Product Group of SVF Flow Controls, Inc.

The **VECTOR-PV7** Series Valve with encapsulated and ATEX approved coils makes this valve excellent for hazardous locations (Flameproof, Ex mb II T4 or T5 and NEC Class I,II Division I Groups A,B,C,D,E,F,G). Each pilot valve is equipped with 3/2 and 5/2 function NAMUR interface plates which allows to be used for both spring return and double acting actuators. Pilot Valves can be used with air, nitrogen or natural gas.

DESIGN FEATURES

- ▼ May be used as a 3-way or 4-way pilot valve for spring return and double acting actuators respectively.
- ▼ Available in different voltages (120 VAC, 220 VAC, 24 VDC).
- ▼ NAMUR mounting interface
- ▼ ATEX approved for Hazardous Areas.
- ▼ Class "H" coil standard. Coil insulation rating is 356° F (180° C)
- ▼ Easily field retrofitted for Spring Return and Double Acting applications.



GENERAL SPECIFICATIONS

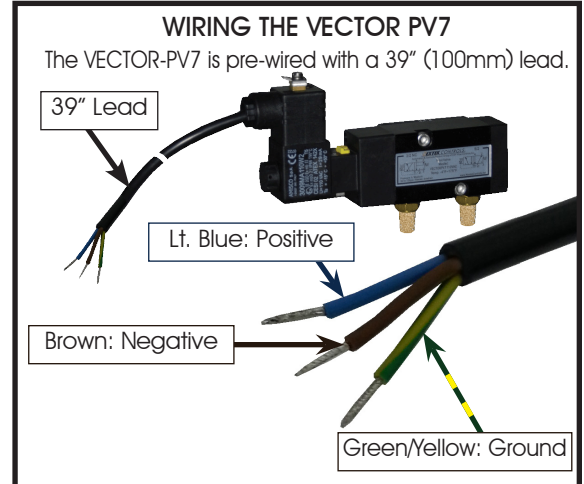
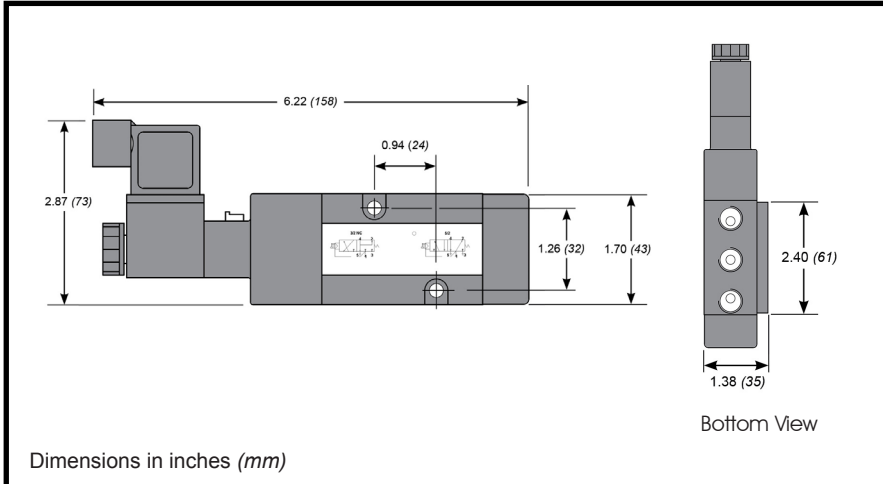
The VECTOR-PV7 Wiring Diagram can be found on the following page

Type	5/2, 3/2	
Air Pressure	Operating: 40 psi to 120 psi	Maximum Design Pressure: (175 psi) intermittent
Temperature	-13°F to 149°F	
Voltages	Standard	Optional
	60 Hz AC	110V/120V, 220V
	DC	24V
Power Consumption	AC = 4 VA; DC = 3W	
Air Connections	1/4" NPT	
Air Flow (Cv)	1.1	
Electrical Entry	Gland type, PG9	
Rating/Enclosure	IP66, ATEX approved for Hazardous Area Locations	
Weight	1 lb.	

VECTOR-PV7 HOW TO ORDER GUIDE

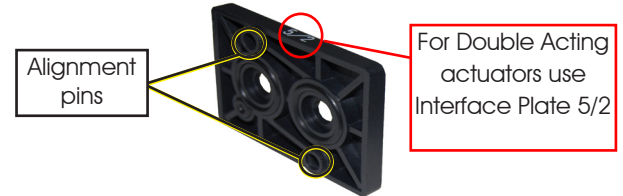
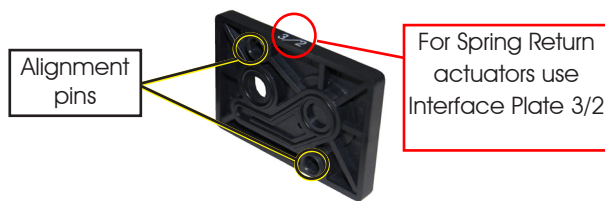
SERIES	VOLTAGE
VECTOR-PV7 = NAMUR Mount 3/2 NC and 5/2 Functions For Single Acting and Double Acting Pneumatic Actuators CE, ATEX approved for Hazardous Area Locations	110 VAC -4VA 60HZ (Standard) 24 VDC -4W (Standard) 220 VAC -4VA 60HZ (Optional)
Order Example: (VECTORPV7110VAC)	
Example Description: VECTOR-PV7, NAMUR Mount Pilot Valve, with 110 VAC Coil.	

VECTOR-PV7 PILOT VALVE DIMENSIONS



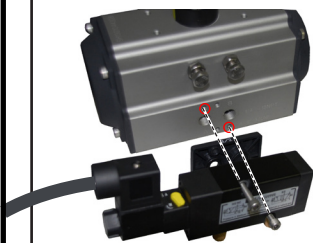
VECTOR-PV7 PILOT VALVE MOUNTING INSTRUCTIONS

The mounting kit includes 2 interface plates that will direct the supply air to the correct manifold ports for either double acting (5/2) or Spring return (3/2) actuators. Each interface plate has a set of alignment pins to ensure proper engagement.



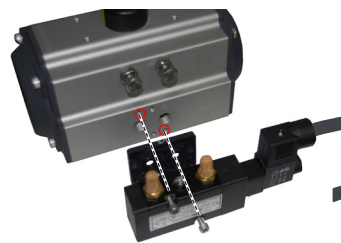
Always note the orientation of the Pilot Valve body, manual override lever and supply air porting when following these instructions.

SPRING RETURN ACTUATORS*:
Using the 3/2 Interface Plate, mount the Pilot Valve to the actuator as shown.



DOUBLE ACTING ACTUATORS:
Using the 5/2 Interface Plate, mount the Pilot Valve to the actuator as shown for:

ENERGIZE TO CLOSE**



ENERGIZE TO OPEN*

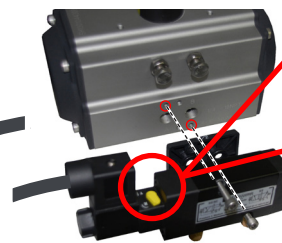
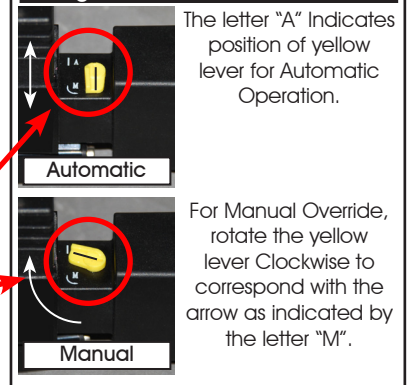


Figure A-1 Manual Override



* Supply air porting is on the bottom of the VECTOR ** Supply air porting is on the top of the VECTOR

MANUAL OVERRIDE: Use of the manual override will by-pass automatic operation. This function is helpful in the event that the valve must be cycled when electrical supply is unavailable. When the yellow lever is in line with "A" it is in Automatic Operation. For Manual Override, rotate the yellow lever Clockwise as indicated by the letter "M". Refer to Figure A-1 above.

NOTE: For detailed instructions on the VECTOR-PV Series, please refer to the IOM available on www.SVF.net.