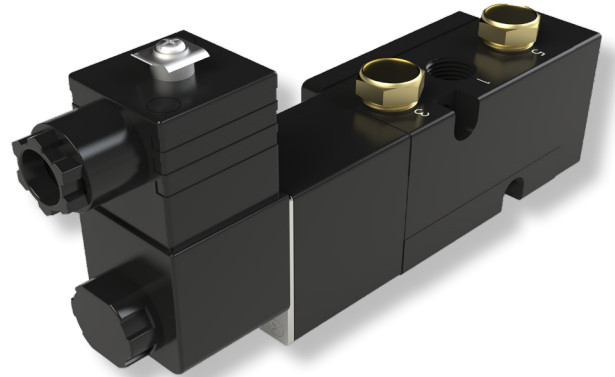


The **VECTOR-PV7** Series Valve with encapsulated and ATEX approved coils makes this valve excellent for hazardous locations (Flameproof, Ex mb II T4 or T5 and NEC Class I,II Division I Groups A,B,C,D,E,F,G). Each pilot valve is equipped with 3/2 and 5/2 function NAMUR interface plates which allows to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

## VECTOR PV7 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

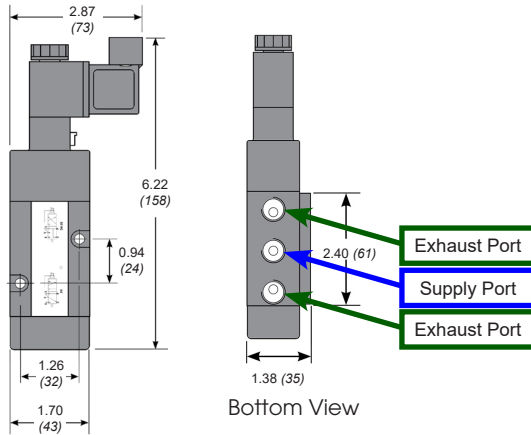
<b>Type</b>	5/2, 3/2	
<b>Air Pressure</b>	Operating: <b>40 psi to 120 psi</b>	Maximum Design Pressure: (175 psi) intermittent
<b>Temperature</b>	-13°F to 149°F	
<b>Voltages</b>	<b>Standard</b>	<b>Optional</b>
<b>60 Hz AC</b>	110V/120V, 220V	24V
<b>DC</b>	24V	
<b>Power Consumption</b>	AC = 4 VA; DC = 3W	
<b>Air Connections</b>	1/4" NPT	
<b>Air Flow (Cv)</b>	1.1	
<b>Electrical Entry</b>	Gland type, PG9	
<b>Rating/Enclosure</b>	IP66, ATEX approved for Hazardous Area Locations	
<b>Weight</b>	1.0 lbs.	

## 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 Locations	110 VAC - 4VA 60HZ (Standard) 24 VDC - 4W (Standard) 220 VAC - 4VA 60HZ (Optional) 12 VDC - 4W (Optional)
Example Description: VECTOR-PV7, NAMUR Mount Pilot Valve, ATEX approved, with 110 VAC Coil. Order Example: (VECTORPV7110VAC)	

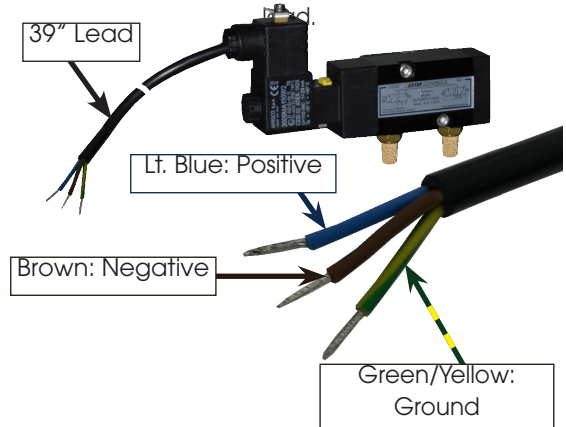
## PILOT VALVE DIMENSIONS

Dimensions in inches (mm)



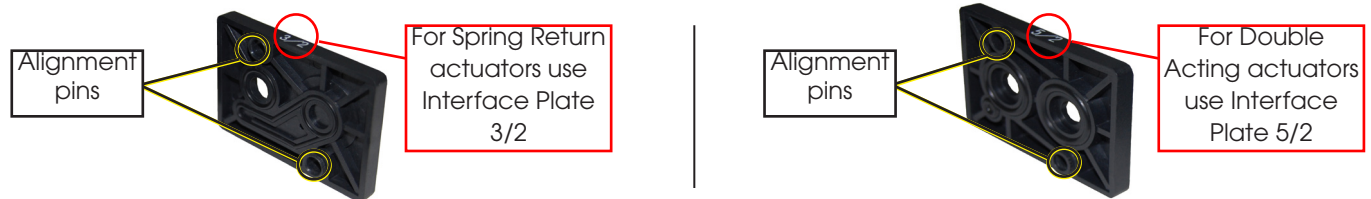
### WIRING THE VECTOR PV7

The VECTOR-PV7 is pre-wired with a 39" (100mm)



## PILOT VALVE MOUNTING INSTRUCTIONS

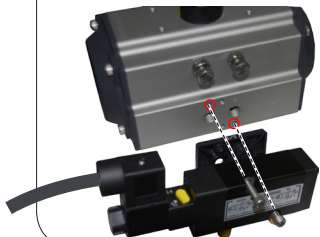
The mounting kit includes 2 interface plates that will direct the supply air to the correct manifold ports for either double acting (5/2) or Spring return (3/2) actuators. Each interface plate has a set of alignment pins to ensure proper engagement.



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

### SPRING RETURN ACTUATORS\*:

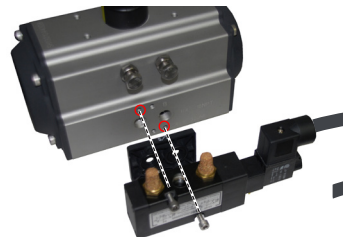
Using the 3/2 Interface Plate, mount the Pilot Valve to the actuator as shown.



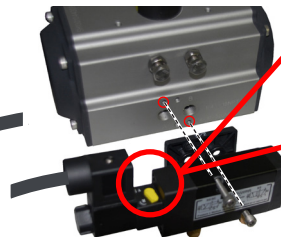
### DOUBLE ACTING ACTUATORS:

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



The letter "A" indicates position of yellow lever for Automatic Operation.

For Manual Override, rotate the yellow lever Clockwise to correspond with the arrow as indicated by the letter "M".

\* 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](http://www.SVF.net).