

V-2410

# Three-Way Solenoid Air Valve



## Description

The V-2410 Three-Way Multipurpose Solenoid Air Valve is used in applications where an electrical circuit operates a pneumatic control device. This valve diverts the air signal to the pneumatic device when the coil is energized or de-energized, depending on the choice of air connection.

## Features

- three air connections:
  - N.O. (normally open)
  - N.C. (normally closed), and COM (common)
- numerous mounting configurations
- compact size with durable, solid brass construction

- conduit adaptable to meet electrical code requirements (conduit housing style models only)
- readily adaptable air connections
- positive air seal
- can be used in smoke control applications

## Repair Parts

If the product fails to operate within its specifications, unit replacement is required.

## To Order

Specify the code number from the following selection chart.

## Selection Chart

Code Number	Description			
	Style	Electrical Rating	Electrical Termination	Nominal Power Consumption
V-2410-1	Conduit Housing	24 V/50-60 Hz	Thermoplastic Leads	6.5 Watts
V-2410-2	Conduit Housing	120 V/50-60 Hz	Thermoplastic Leads	6.5 Watts
V-2410-3	Conduit Housing	208 V/50-60 Hz	Thermoplastic Leads	6.5 Watts
V-2410-4	Conduit Housing	240 V/50-60 Hz	Thermoplastic Leads	6.5 Watts
V-2410-5	Conduit Housing	277 V/50-60 Hz	Thermoplastic Leads	6.5 Watts
V-2410-6	Conduit Housing	480 V/50-60 Hz	Thermoplastic Leads	6.5 Watts
V-2410-7	Conduit Housing	24 VDC	Thermoplastic Leads	5.7 Watts
V-2410-8	Yoke	24 V/50-60 Hz	Push-On Spade Terminal	8.0 Watts
V-2410-9	Yoke	120 V/50-60 Hz	Push-On Spade Terminal	8.0 Watts

## Specifications

V-2410 Three-Way Multipurpose Solenoid Air Valve													
Air Connections	<table border="0"> <tr> <td>Conduit Housing Style Models</td> <td>N.O.</td> <td>1/8 in. NPT</td> </tr> <tr> <td></td> <td></td> <td>1/8 in. NPT Barbed</td> </tr> <tr> <td></td> <td>N.C. &amp; COM.</td> <td>Fittings for 5/32 or 1/4 in. O.D. Polytubing</td> </tr> <tr> <td>Yoke Style Models</td> <td>N.O., N.C., &amp; COM.</td> <td>1/8 in. NPT</td> </tr> </table>	Conduit Housing Style Models	N.O.	1/8 in. NPT			1/8 in. NPT Barbed		N.C. & COM.	Fittings for 5/32 or 1/4 in. O.D. Polytubing	Yoke Style Models	N.O., N.C., & COM.	1/8 in. NPT
	Conduit Housing Style Models	N.O.	1/8 in. NPT										
		1/8 in. NPT Barbed											
	N.C. & COM.	Fittings for 5/32 or 1/4 in. O.D. Polytubing											
Yoke Style Models	N.O., N.C., & COM.	1/8 in. NPT											
Operating Pressure	0 to 30 psig (0 to 210 kPa) Maximum												
Leakage	Internal	None											
	External	Maximum 0.1 scim (0.03 mL/s) per Fitting Used											
Ambient Operating Temperature Limits	32 to 130°F (0 to 54°C)												
Materials	Solid Brass Body												
Wiring (Conduit Housing Style Models Only)	Three 18 AWG Thermoplastic Wires, 18 in. (457 mm) Long.												
Agency Listings	Conduit Housing Style Models	UL and CSA Approved											
	Yoke Style Models	UL and CSA Component Listed											


## V-2410 Three-Way Solenoid Air Valve (Continued)

### Output Flow Capacity scim (mL/s)

Air Connections	20 psig (140 kPa) Supply, 1 psig (7 kPa) Drop		20 psig (140 kPa) Supply, 20 psig (140 kPa) Drop	
	N.O.	N.C.	N.O.	N.C.
Barbed Fittings for 5/32 or 1/4 in. O.D. Poly tubing (Included with Conduit Housing Style Models)	700 (191)	750 (205)	1900 (519)	2100 (573)
Barbed Fittings for Compression Fittings for 1/4 in. O.D. Tubing	1000 (273)	1400 (382)	2650 (723)	4200 (1147)

### Volt-Ampere Ratings

V-2410-Suffix	50 Hz		60 Hz	
	Inrush	Holding	Inrush	Holding
-1	20 VA	15 VA	18 VA	11 VA
-2	20 VA	15 VA	18 VA	11 VA
-3	20 VA	15 VA	18 VA	11 VA
-4	20 VA	15 VA	18 VA	11 VA
-5	20 VA	15 VA	18 VA	11 VA
-6	20 VA	15 VA	18 VA	11 VA
-7	20 VA	15 VA	18 VA	11 VA
-8	24 VA	17 VA	19 VA	13 VA
-9	24 VA	17 VA	19 VA	13 VA

 **CAUTION:** The V-2410 is basically an inductive device in an electrical circuit. When switching an inductive load, it may be necessary to provide transient suppression, depending on the circuitry and switching devices involved.