

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.

Refer to *V-2410 Three-Way Multipurpose Solenoid Air Valve (LIT-7171560)* for important product information.

### Repair Information

If the V-2410 Three-Way Multipurpose Solenoid Air Valve fails to operate within its specifications, replace the unit. For a replacement valve, contact the nearest Johnson Controls® representative.

### Features

- three air connections:
  - N.O. (normally open)
  - N.C. (normally closed)
  - 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



V-2410 Series Conduit Housing Style Air Solenoid Valve

### Selection Chart

Code Number	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		120 V/50-60 Hz		
V-2410-3		208 V/50-60 Hz		
V-2410-4		240 V/50-60 Hz		
V-2410-5		277 V/50-60 Hz		
V-2410-6		480 V/50-60 Hz		
V-2410-7		24 VDC		
V-2410-8	Yoke	24 V/50-60 Hz	Push-On Spade Terminal	8.0 Watts
V-2410-9		120 V/50-60 Hz		

**CAUTION: IMPORTANT:** 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.

### Technical Specifications

V-2410 Three-Way Multipurpose Solenoid Air Valve			
Air Connections	Conduit Housing Style Models	N.O.	1/8 in. NPT
		N.C. & COM.	1/8 in. NPT Barbed Fittings for 5/32 or 1/4 in. O.D. Poly tubing
	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 Listed
	Yoke Style Models		UL and CSA Component Listed

### 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

### 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)