

# CONTROL VALVES

## RED HAT SOLENOID VALVES 8210 SERIES



ASCO®



3

CONTROL VALVES

### DESCRIPTION

The ASCO 8210 Series solenoid valves are general service, pilot operated, two-way solenoid valves for liquid and air/inert gas applications. They are available in normally closed or normally open operation with coil voltages to meet any typical application. The 8210 Series come completely assembled with conduit connection and wire leads.

### FEATURES

- Industry standard Red Hat II
- Wide range of sizes and options
- High flow rates, low pressure drop
- Long service life
- For hot or chilled water, air or inert gases
- 1/2" NPT conduit connection standard
- Lead wires standard
- Not polarity sensitive

### APPLICATION

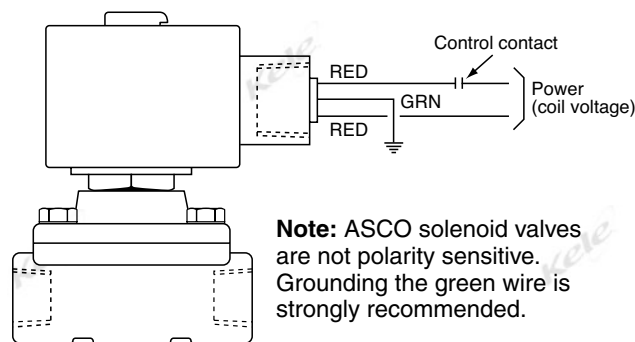
The 8210 Series valves are general purpose, and the standard models are suitable for most clean liquids (hot and chilled water, light oils), air and inert gas applications. They are ideal for boiler and cooling tower fill valves. There are also many options available for the 8210 Series, such as explosionproof enclosures, manual operators, junction box/terminal block wiring connections, and different seal materials for more demanding media.

### OPERATION

The 8210 Series solenoid valves are pilot-operated and require a differential pressure to open/close. Applications such as gravity drain for tanks or vacuum applications may not generate enough differential pressure across the valve for the valve to operate. In these applications, choose a direct-acting valve which is indicated in the ASCO catalog with a minimum differential pressure of zero.

Other types of ASCO valves, also available through Kele, include valves for hot water/steam service, cryogenic service, fuel service, intrinsically safe applications, and pneumatic control systems.

### WIRING



### SPECIFICATIONS

<b>Size</b>	1/2" NPT to 2" NPT	<b>Operating Pressure</b>	
<b>Cv</b>	4.0, 5.0, 13, 15, 22, 43, 5.5	<b>Minimum</b>	5 psid (35 kPa)
<b>Materials Of Construction</b>		<b>Maximum</b>	125 to 150 psid (862 to 1034 kPa), varies by model
<b>Body</b>	Brass	<b>Operating Temperature</b>	32° to 125°F (0° to 52°C)
<b>Seals &amp; Disc</b>	NBR or PTFE	<b>Enclosure Rating</b>	NEMA 4
<b>Media Compatibility</b>	Clean hot or chilled water, air or inert gas	<b>Approvals</b>	CSA, UL File #MP618, CE
<b>Media Temperature</b>	Maximum 180°F (82°C) water temperature	<b>Warranty</b>	1 year
<b>Supply Voltage</b>	120 VAC, 60 Hz, 24 VAC, 60 Hz		
<b>Action</b>	N.C. or N.O. without power (valve body determines action)		



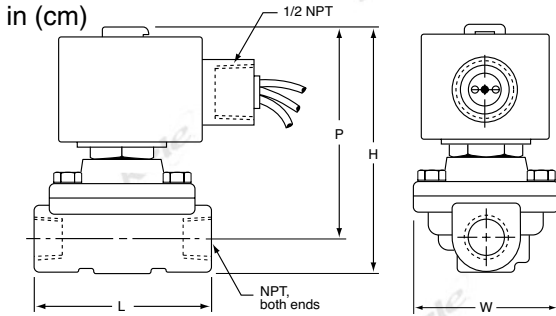
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### DIMENSIONS



Model	Size	H	L	P	Width	Weight lb (Kg)
8210G2	1/2" NPT	3.1 (8.6)	2.8 (7.0)	2.8 (7.2)	2.3 (5.9)	1.9 (.86)
8210G9	3/4" NPT	3.6 (9.2)	2.8 (7.1)	3.0 (7.6)	2.3 (5.9)	2.7 (1.2)
8210G4	1" NPT	5.6 (14.3)	3.8 (9.5)	4.0 (10.2)	2.9 (7.5)	4.4 (2.0)
8218G8	1-1/4" NPT	5.6 (14.3)	3.7 (9.3)	4.0 (10.2)	3.4 (8.6)	5.6 (2.5)
8210G22	1-1/2" NPT	6.1 (15.6)	4.4 (11.1)	4.2 (10.6)	3.4 (8.6)	5.8 (2.6)
8210G100	2" NPT	7.3 (18.6)	5.1 (12.9)	4.7 (11.9)	4.7 (11.9)	7.2 (3.3)
8210G34	1/2" NPT	4.3 (11.0)	2.8 (7.0)	3.8 (9.6)	2.3 (5.8)	1.9 (.86)
8210G35	3/4" NPT	4.6 (11.6)	2.8 (7.1)	3.9 (10.0)	2.3 (5.8)	2.7 (1.2)
8210G14	1" NPT	6.5 (16.6)	3.7 (9.3)	4.9 (12.5)	3.4 (8.6)	4.4 (2.0)
8210G18	1-1/4" NPT	6.5 (16.6)	3.7 (9.3)	4.9 (12.5)	3.4 (8.6)	5.6 (2.5)
8210G32	1-1/2" NPT	7.0 (17.9)	4.4 (11.1)	5.1 (12.9)	3.8 (9.5)	5.8 (2.6)
8210G103	2" NPT	8.2 (20.9)	5.1 (12.9)	4.7 (11.9)	4.7 (11.9)	7.2 (3.3)

### ORDERING INFORMATION

MODEL	VALVE INFORMATION		COIL INFORMATION				ASSEMBLED
	SIZE	Cv	SUPPLY VOLTAGE	WATTS	VAC HOLDING	VAC INRUSH	WEIGHT lb (kg)
8210G2-120/60	1/2" NPT	4.0	120 VAC/60Hz	6.1	16 VA	40 VA	1.9 (.86)
8210G2-24/60	1/2" NPT	4.0	24 VAC/60Hz	6.1	16 VA	40 VA	1.9 (.86)
8210G9-120/60	3/4" NPT	5.0	120 VAC/60Hz	6.1	16 VA	40 VA	2.7 (1.2)
8210G9-24/60	3/4" NPT	5.0	24 VAC/60Hz	6.1	16 VA	40 VA	2.7 (1.2)
8210G4-120/60	1" NPT	13.0	120 VAC/60Hz	6.1	16 VA	40 VA	4.4 (2.0)
8210G4-24/60	1" NPT	13.0	24 VAC/60Hz	6.1	16 VA	40 VA	4.4 (2.0)
8210G8-120/60	1-1/4" NPT	15.0	120 VAC/60Hz	6.1	16 VA	40 VA	5.6 (2.5)
8210G8-24/60	1-1/4" NPT	15.0	24 VAC/60Hz	6.1	16 VA	40 VA	5.6 (2.5)
8210G22-120/60	1-1/2" NPT	22.0	120 VAC/60Hz	6.1	16 VA	40 VA	5.8 (2.6)
8210G22-24/60	1-1/2" NPT	22.0	24 VAC/60Hz	6.1	16 VA	40 VA	5.8 (2.6)
8210G100-120/60	2" NPT	43.0	120 VAC/60Hz	6.1	16 VA	40 VA	7.2 (3.3)
8210G100-24/60	2" NPT	43.0	24 VAC/60Hz	6.1	16 VA	40 VA	7.2 (3.3)
Normally Open Models							
MODEL	SIZE	Cv	SUPPLY VOLTAGE	WATTS	VAC HOLDING	VAC INRUSH	WEIGHT
8210G34-120/60	1/2" NPT	4.0	120 VAC/60Hz	10.1	25 VA	70 VA	1.9 (.86)
8210G34-24/60	1/2" NPT	4.0	24 VAC/60Hz	10.1	25 VA	70 VA	1.9 (.86)
8210G35-120/60	3/4" NPT	5.5	120 VAC/60Hz	10.1	25 VA	70 VA	2.7 (1.2)
8210G35-24/60	3/4" NPT	5.5	24 VAC/60Hz	10.1	25 VA	70 VA	2.7 (1.2)
8210G14-120/60	1" NPT	13.0	120 VAC/60Hz	16.1	35 VA	180 VA	4.4 (2.0)
8210G14-24/60	1" NPT	13.0	24 VAC/60Hz	16.1	35 VA	180 VA	4.4 (2.0)
8210G18-120/60	1-1/4" NPT	15.0	120 VAC/60Hz	16.1	35 VA	180 VA	5.6 (2.5)
8210G18-24/60	1-1/4" NPT	15.0	24 VAC/60Hz	16.1	35 VA	180 VA	5.6 (2.5)
8210G32-120/60	1-1/2" NPT	22.0	120 VAC/60Hz	16.1	35 VA	180 VA	5.8 (2.6)
8210G32-24/60	1-1/2" NPT	22.0	24 VAC/60Hz	16.1	35 VA	180 VA	5.8 (2.6)
8210G103-120/60	2" NPT	43.0	120 VAC/60Hz	16.1	35 VA	180 VA	7.2 (3.3)
8210G103-24/60	2" NPT	43.0	24 VAC/60Hz	16.1	35 VA	180 VA	7.2 (3.3)

#### SSTAG

#### RELATED PRODUCTS

Stainless steel tag on bead chain, 1" x 2" dogtag, custom engraved per order

- 238210-005-D
- 238210-032-D
- 238610-005-D
- 238610-032-D
- 272610-005-D
- 272610-032-D

#### ACCESSORIES

24 VAC replacement coil N.C., (1/2"-2"), 6.1w, 16vA hold, 40vA inrush  
 120 VAC replacement coil N.C., (1/2"-2"), 6.1w, 16vA hold, 40vA inrush  
 24 VAC replacement coil N.O., (1/2"-3/4"), 10.1w, 25vA hold, 70vA inrush  
 120 VAC replacement coil N.O., (1/2"-3/4"), 10.1w, 25vA hold, 70vA inrush  
 24 VAC replacement coil N.O., (1"-2"), 16.1w, 35vA hold, 180vA inrush  
 120 VAC replacement coil N.O., (1"-2"), 16.1w, 35vA hold, 180vA inrush