

# Asco Solenoid Valve Manual



Pilot Operated  
**General Service Solenoid Valves**  
Brass or Stainless Steel Bodies  
3/8" to 2 1/2" NPT

**2/2  
SERIES  
8210**

2-WAY

## Features

- Wide range of pressure ratings, sizes, and resilient materials provide long service life and low internal leakage
- High flow valves for liquid, corrosive, and air/inert gas service
- Lead-free versions available for Safe Drinking Water Act Compliance
- Industrial applications include:
  - Car wash
  - Laundry equipment
  - Air compressors
  - Industrial water control
  - Pumps

## Construction

Valve Parts in Contact with Fluids		
Body	Brass	304 Stainless Steel*
Seals and Discs	NBR or PTFE	
Disc-Holder	PA	
Core Tube	305 Stainless Steel	
Core and Plugnut	430F Stainless Steel	
Springs	302 Stainless Steel	
Shading Coil	Copper	Silver

\* Catalog Numbers 8210G127, 8210G129, 8210G132, 8210G133 have 316L Stainless Steel bodies.

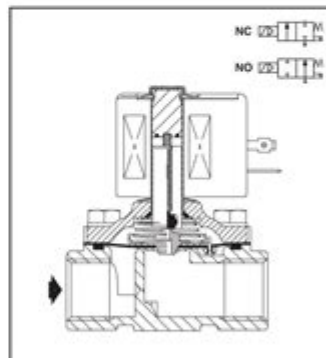
## Electrical

Standard Coil and Class of Insulation	Watt Rating and Power Consumption				Spare Coil Part Number		
	DC Watts	AC			General Purpose		Explosionproof
		Watts	VA Holding	VA Inrush	AC	DC	DC
F	-	6.1	16	40	238210	-	238214
F	11.6	10.1	25	70	238610	238710	238614
F	15.8	-	-	-	501695	-	501696
F	16.8	16.1	35	180	272610	97617	272614
F	-	17.1	40	93	238610	-	238614
F	-	20	43	240	99257	-	99257
F	-	20.1	48	240	272610	-	272614
F	30.8	-	-	-	-	501695	-
H	11.6	-	-	-	-	238910	-
H	40.6	-	-	-	-	238910	-

Standard Voltages: 24, 120, 240, 480 volts AC, 60 Hz (or 110, 220 volts AC, 50 Hz). 6, 12, 24, 120, 240 volts DC. Must be specified when ordering.  
Other voltages available when required.

## Solenoid Enclosures

**Standard:** RedHat II - Watertight, Types 1, 2, 3, 3S, 4, and 4X; RedHat - Type I.  
**Optional:** RedHat II - Explosionproof and Watertight, Types 3, 3S, 4, 4X, 6, 6P, 7, and 9; RedHat - Explosionproof and Watertight, Types 3, 4, 4X, 7, and 9.  
(To order, add prefix "EF" to catalog number, except Catalog Numbers 8210B057, 8210B058, and 8210B059, which are not available with Explosionproof enclosures.)  
See *Optional Features* Section for other available options.



## Nominal Ambient Temp. Ranges

RedHat II/RedHat AC: 32°F to 125°F (0°C to 52°C)  
RedHat II DC: 32°F to 104°F (0°C to 40°C)  
RedHat DC: 32°F to 77°F (0°C to 25°C)  
(104°F/40°C occasionally)  
8210G227 AC: 32°F to 130°F (0°C to 54°C)  
DC: 32°F to 90°F (0°C to 32°C)

Refer to *Engineering* Section for details.

## Approvals

UL listed as indicated, CSA certified.  
RedHat II meets applicable CE directives.  
Refer to *Engineering* Section for details.  
ATEX/IECEx certified with prefix "EV" as listed. Refer to *Optional Features Electrical* Section for details.

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Asco solenoid valve manual is an essential resource for engineers, technicians, and anyone involved in the installation, maintenance, and troubleshooting of solenoid valves produced by Asco. Asco, a brand under the Emerson Electric Co., is known for its high-quality fluid control solutions. This article will delve into the various aspects of the Asco solenoid valve manual, including its purpose, types of solenoid valves, installation procedures, maintenance tips, troubleshooting techniques, and more.

## Purpose of the Asco Solenoid Valve Manual

The Asco solenoid valve manual serves multiple purposes, primarily aimed at ensuring the effective and safe operation of solenoid valves. A well-structured manual provides users with:

1. **Comprehensive Information:** Details about the types of solenoid valves, specifications, and operational principles.
2. **Installation Guidelines:** Step-by-step instructions for proper installation to prevent damage and ensure safety.
3. **Maintenance Procedures:** Recommendations for regular maintenance to extend the lifespan of the valve.
4. **Troubleshooting Assistance:** Guidance on diagnosing common issues and resolving them efficiently.

## **Types of Asco Solenoid Valves**

Asco offers a wide range of solenoid valves tailored for various applications. Understanding these types is crucial for selecting the right valve for your needs.

### **1. Direct-Acting Solenoid Valves**

Direct-acting solenoid valves utilize the magnetic force of the solenoid coil to operate the valve directly. They are suitable for low-pressure applications and typically have a simple construction.

- Advantages:
- Can operate with low pressure.
- Fast response times.
- Compact design.

### **2. Pilot-Operated Solenoid Valves**

Pilot-operated solenoid valves use a small pilot valve to control a larger valve. They are ideal for high-pressure applications and can handle larger flow rates.

- Advantages:
- Able to function in high-pressure environments.
- More efficient in terms of energy consumption.
- Offers a greater flow capacity.

### **3. Two-Way Solenoid Valves**

These valves control the flow of fluids in two directions. They can be either normally open or normally closed.

- Applications: Used in various industries such as water treatment, HVAC, and industrial automation.

### **4. Three-Way Solenoid Valves**

Three-way valves can direct flow between two different paths. They are

commonly used in mixing or diverting applications.

- Applications: Frequently found in pneumatic systems and fluid control circuits.

## **Installation Procedures**

Proper installation is crucial for the effective functioning of Asco solenoid valves. Here are the steps to follow:

### **1. Preparation**

- Check the Manual: Refer to the specific Asco solenoid valve manual for detailed specifications and requirements.
- Gather Tools: Ensure you have the necessary tools, including wrenches, screwdrivers, and sealing materials.

### **2. Valve Positioning**

- Orientation: Install the valve in the correct orientation as specified in the manual. Most solenoid valves have an arrow indicating the flow direction.
- Area Clearance: Ensure that there is enough space around the valve for maintenance and operation.

### **3. Piping Connections**

- Pipe Preparation: Cut and prepare the pipes ensuring clean and deburred edges to prevent leaks.
- Connection Type: Use the appropriate connection method (threaded, flanged, etc.) as specified in the manual.
- Sealing: Apply the appropriate sealing material to prevent leakage.

### **4. Electrical Connections**

- Power Supply: Verify the power supply specifications as outlined in the manual.
- Wiring: Connect the electrical wires according to the schematic provided in the manual. Ensure proper insulation and secure connections.

### **5. Testing**

- Initial Test: Once installed, conduct a pressure test to check for leaks.
- Functional Test: Activate the valve to ensure it opens and closes correctly.

# Maintenance Tips

Regular maintenance is critical to ensure the longevity and reliability of Asco solenoid valves. Here are some essential maintenance tips:

## 1. Routine Inspections

- Visual Inspection: Regularly check for signs of wear, leaks, or corrosion.
- Functional Tests: Periodically test the valve's operation to ensure it responds correctly.

## 2. Cleaning

- Debris Removal: Remove any debris or buildup that could obstruct the valve's operation.
- Fluid Quality: Ensure that the fluid passing through the valve is clean and meets the specified quality standards.

## 3. Lubrication

- Moving Parts: Lubricate moving components as recommended in the manual to prevent wear and ensure smooth operation.

## 4. Electrical Checks

- Wiring Inspection: Regularly check electrical connections for signs of wear or damage.
- Voltage Testing: Use a multimeter to check that the voltage supplied to the solenoid is within the specified range.

# Troubleshooting Techniques

Despite proper installation and maintenance, issues may arise with Asco solenoid valves. Here are common problems and their troubleshooting steps:

## 1. Valve Not Opening

- Check Power Supply: Ensure that the solenoid is receiving the correct voltage.
- Inspect Coil: Verify that the coil is not burnt out or damaged.
- Debris Check: Look for any obstructions that may be preventing valve movement.

## **2. Valve Leaking**

- Seal Inspection: Check seals and gaskets for wear or damage.
- Tightening Connections: Ensure all fittings and connections are secure.
- Fluid Quality: Make sure the fluid is compatible with the valve materials.

## **3. Erratic Operation**

- Electrical Fluctuations: Check for voltage fluctuations in the power supply.
- Overheating: Ensure the valve is not overheating, which can be caused by excessive duty cycles.

## **Conclusion**

The Asco solenoid valve manual is an indispensable tool for anyone working with solenoid valves. By understanding the purpose of the manual, the types of valves available, their installation procedures, maintenance tips, and troubleshooting techniques, users can ensure the efficient operation of Asco solenoid valves. Proper adherence to the guidelines outlined in the manual not only enhances the performance of the valves but also prolongs their lifespan, ensuring reliable operation in various applications. Whether you are a seasoned professional or a newcomer to fluid control systems, having access to a comprehensive manual is vital for success in the field.

## **Frequently Asked Questions**

### **What is an ASCO solenoid valve manual used for?**

An ASCO solenoid valve manual provides instructions on the operation, installation, maintenance, and troubleshooting of ASCO solenoid valves, which are used to control the flow of liquids and gases in various applications.

### **Where can I find the ASCO solenoid valve manual?**

The ASCO solenoid valve manual can typically be found on the official ASCO website, in the product documentation section, or through authorized distributors. Printed versions may also be available upon request.

### **What safety precautions should be followed when using ASCO solenoid valves?**

Safety precautions include ensuring the valve is installed according to the manual, checking for leaks before operation, using appropriate protective gear when handling, and following electrical safety guidelines to prevent shocks.

### **How do I troubleshoot a malfunctioning ASCO solenoid**

## valve?

To troubleshoot a malfunctioning ASCO solenoid valve, first refer to the manual for common issues. Check for power supply, inspect wiring connections, ensure the valve is not clogged, and verify that the coil is functioning properly.

## Can I use the ASCO solenoid valve manual for different models?

While the ASCO solenoid valve manual provides general guidelines, it is important to refer to the specific manual for your model as different models may have unique features, specifications, and installation requirements.

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