

# General Purpose Solenoid Valve

Plastic Body | 2-Way Direct / Semi-Direct Acting | 1/8" to 1/4"



## Features

- Provides reliable on/off control for clean water and low-viscosity fluids in low-pressure systems
- Fast-acting response for automatic water shutoff and flow control applications
- Can be mounted vertically or horizontally for flexible installation
- Threaded connection model features a direct-acting solenoid design, allowing stable operation at low or zero differential pressure
- Push-in connection model operates in a semi-direct acting mode and requires minimum differential pressure for reliable operation
- Durable plastic body suitable for water purification, RO systems, and light-duty fluid handling
- Designed for compact, lightweight, and corrosion-resistant system installations
- Suitable for residential, commercial, and light industrial water treatment applications

## Materials of Construction

Valve Parts	Material	
	THREADED**	PUSH-IN***
Body	Polypropylene Plastic	POM Plastic
Components	Stainless Steel	
Seal	EPDM	EPDM Diaphragm
Shading Ring	Copper	

\*Consult a chemical compatibility expert for correct seal and valve body material choice.  
 \*\* The valve body of the threaded model is threaded at the base and can be mounted using an M5 mounting screw  
 \*\*\*The push-in connection model includes a built-in filter screen to prevent debris from entering the valve chamber and affecting proper operation. The bottom mounting legs can be secured using 4 mm machine screws.

## Electrical Data

Pipe Size (in)	Power Rating (Holding)				Coil Connection	Coil Class	Protection Class
	AC, 60 Hz VA		DC Watts				
	24V	120V	12V	24V			
<b>THREADED</b>							
1/8	(1)	7	5.5	(1)	Lead Wires	B	IP 54
1/4	7		5.5				
<b>PUSH-IN</b>							
1/4	6	5	5		Terminal	B	IP 54

- (1) 24V AC and 24V DC are not offered for this size  
 (2) Valves are designed to be normally closed (NC)  
 (3) Valves are suitable for continuous energization (100% duty cycle) within rated voltage and ambient temperature limits  
 (4) AC power ratings shown represent steady state (Holding) VA at rated voltage, 50/60 Hz, and 40 °C (104 °F) ambient temperature  
 (5) Electrical values are nominal with a tolerance of ±10 % unless otherwise specified

## Industrial Applications

- Humidification and Misting Systems
- Water Treatment and Filtration Systems
- Ice Production Equipment
- Drinking Water Dispensers and Fountains
- Aquaculture and Aquarium Systems
- Commercial Dishwashing Equipment
- Beverage Processing and Dispensing Systems
- Industrial Cleaning and Washdown Systems
- Hydroponic Cultivation Systems
- Laundry Appliances
- Dental Equipment

\*These are not intended for use in medical life support, combustion, aviation, aerospace, automotive or similar applications

## Approvals

- CE compliant for EMC in accordance with: EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3
- FDA compliant for food and drinking water contact in accordance with 21 CFR 177.2470, 21 CFR 177.1520, 21 CFR 175.300, and 21 CFR 177.2600

## Specifications

Size (in)	Port Connection	Orifice (mm)	Flow Coefficient Value Cv	Flow Rate GPM @60 PSI	Operating Pressure (psi)				Operating Temperature (°F)		
					Min	Max				Min	Max
						AC		DC			
						24V	120V	12V	24V		
<b>THREADED</b>											
1/8	NPT - Female	2.5	0.2	1.5	0	(a)	115	115	(a)	25	212
1/4	NPT - Female	2.5	0.2	1.5	0	115		115		25	212
<b>PUSH-IN</b>											
1/4	Quick Connect	2.0	0.2	1.5	3	115		115		25	175

- (a) 24V AC and 24V DC are not offered for this size  
 (b) Valves are designed to be normally closed (NC)  
 (c) For threaded model, the valve operates in direct-acting mode, allowing operation from 0 psi differential pressure  
 (d) For push-in model, the valve operates in a semi-direct acting mode, requiring a minimum differential pressure of 3 psi for reliable operation  
 (e) This valve may not be suitable for gravity-fed applications due to its small orifice size

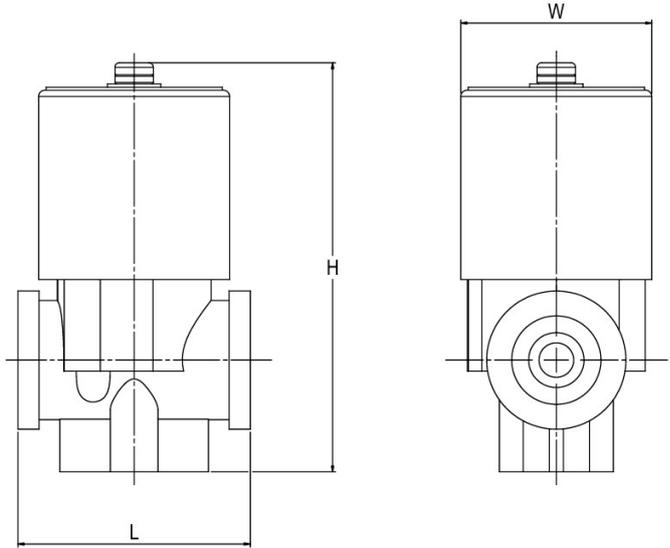
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## Dimension: Threaded Model

Pipe Size (in)	Dimension (in)			Weight (lb)
	H	L	W	
1/8	2.44	2.53	1.24	0.29
1/4	2.44	2.53	1.24	0.29

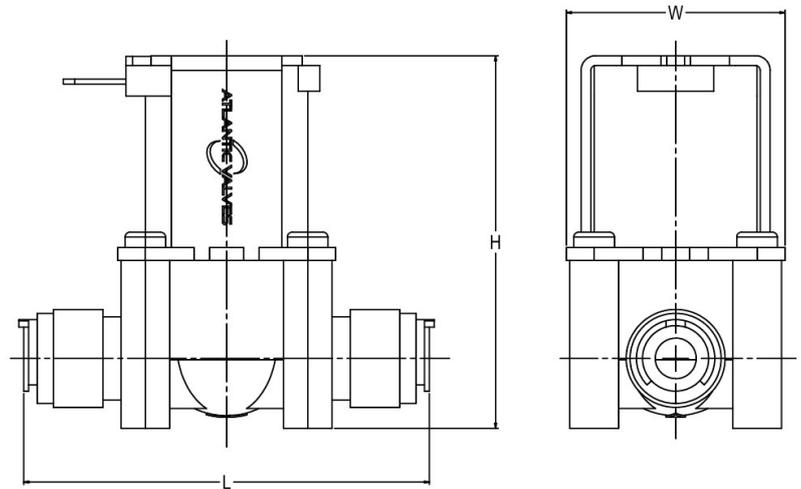
- (1) Weight and dimension may vary slightly from production
- (2) Dimension shown are nominal and provided for reference only
- (3) Dimension tolerance: ± 5% unless otherwise specified
- (4) H = Overall Height, L = Port to Port Length, W = Overall Width



## Dimension: Push-in Model

Pipe Size (in)	Dimension (in)			Weight (lb)
	H	L	W	
1/4	2.30	2.50	1.34	0.25

- (1) Weight and dimension may vary slightly from production
- (2) Dimension shown are nominal and provided for reference only
- (3) Dimension tolerance: ± 5% unless otherwise specified
- (4) H = Overall Height, L = Port to Port Length, W = Overall Width



## Product Ordering Code

<b>RSC</b>	-	<b>X</b>	<b>X</b>	<b>X</b>	-	<b>X</b>	<b>X</b>
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**VALVE SERIES**

CODE	DESCRIPTION
RSC	PLASTIC SOLENOID VALVE SERIES

**SIZE**

CODE	DESCRIPTION
1	1/8" (DN6)
2	1/4" (DN8)

**VOLTAGE USED**

CODE	DESCRIPTION
12V	12V
24V	24V
120V	120V

**VALVE MODEL**

CODE	DESCRIPTION
(BLANK)	THREADED
A	PUSH-IN

**VALVE TYPE**

CODE	DESCRIPTION
(BLANK)	NORMALLY CLOSED (NC)

**TYPE OF CURRENT**

CODE	DESCRIPTION
AC	ALTERNATING CURRENT
DC	DIRECT CURRENT

**EXAMPLE:**

**RSC-1-120VAC** indicates a polypropylene plastic body, threaded RSC series valve with a 1/8" NPT-Female connection, normally closed configuration, and with 120V AC coil