

# General Purpose Solenoid Valve

Stainless Steel Body | 2-Way Semi-Direct Acting | 1/2" to 2"



## Features

- Provides on/off control of inert liquids and gases
- Fast-acting response time
- Gravity feed capable; ideal for low pressure fluid
- Can be mounted vertically or horizontally
- Durable construction suited for a wide range of compatible media including water and air
- Suitable for commercial and residential applications

## Materials of Construction

Valve Parts	Material
Body	Stainless Steel
Components	Stainless Steel
Seal	Viton® Diaphragm
Shading Ring	Copper

Consult a chemical compatibility expert for correct seal and valve body material choice

## Electrical Data

Pipe Size (in)	Power Rating (Holding)				Coil Connection		Protection Class	
	AC, 60 Hz VA		DC Watts		NC	NO	NC	NO
	24V	110V	12V	24V				
1/2	19	15	16	28	Lead Wires	DIN 43650B	NEMA 3	NEMA 4 / IP 65
3/4	19	15	16	28				
1	19	15	16	28				
1 1/2	23	35	21	30	(2)	DIN 43650A	(3)	
2	23	35	21	30				

- (1) NC - Normally Closed; NO - Normally Open
- (2) Lead Wires for 12V DC, 24V DC, and 110V AC; DIN 43650A for 24V AC
- (3) NEMA 3 for 12V DC, 24V DC, and 110V AC; NEMA 4/IP 65 for 24V AC
- (4) Valves are suitable for continuous energization (100% duty cycle) within rated voltage and ambient temperature limits
- (5) AC power ratings shown represent steady state (Holding) VA at rated voltage, 50/60 Hz, and 40 °C ambient temperature.
- (6) Electrical values are nominal with a tolerance of ±10 % unless otherwise specified

## Industrial Applications

- Washing Machine
- Humidifiers
- Water Sprinkler System
- Industrial Water Control
- Air Compressors and Pneumatic Systems
- Water Treatment and Filtration Equipment
- Process Water Distribution
- Fluid Dispensing and Dosing System

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

## Approvals

- CE certified for EMC Compliance. Meets EN 61000-6-3:2007 + A1:2011 and EN 61000-6-1:2007
- RoHS compliant in accordance with Directive 2011/65/EU

## Specifications

Pipe Connection		Orifice (mm)	Flow Coefficient Value Cv	Flow Rate GPM @60 PSI	Operating Pressure (psi)						Operating Temperature (°F)	
					Water			Air				
Size (in)	Thread Connection				Min	Max		Min	Max		Min	Max
						AC	DC		AC	DC		
<b>NORMALLY CLOSED (NC)</b>												
1/2	NPT - Female	15	3.5	27	0	145	115	7	145	115	15	250
3/4	NPT - Female	20	7.6	58	0	145	115	7	145	115	15	250
1	NPT - Female	25	12.0	92	0	145	115	7	145	115	15	250
1 1/2	NPT - Female	40	29.0	220	0	145	90	7	145	90	15	250
2	NPT - Female	50	48.0	370	0	145	90	7	145	90	15	250
<b>NORMALLY OPEN (NO)</b>												
1/2	NPT - Female	15	3.5	27	0	90	90	7	90	90	15	250
3/4	NPT - Female	20	7.6	58	0	90	90	7	90	90	15	250
1	NPT - Female	25	12.0	92	0	90	90	7	90	90	15	250
1 1/2	NPT - Female	40	29.0	220	0	90	90	7	90	90	15	250
2	NPT - Female	50	48.0	370	0	90	90	7	90	90	15	250

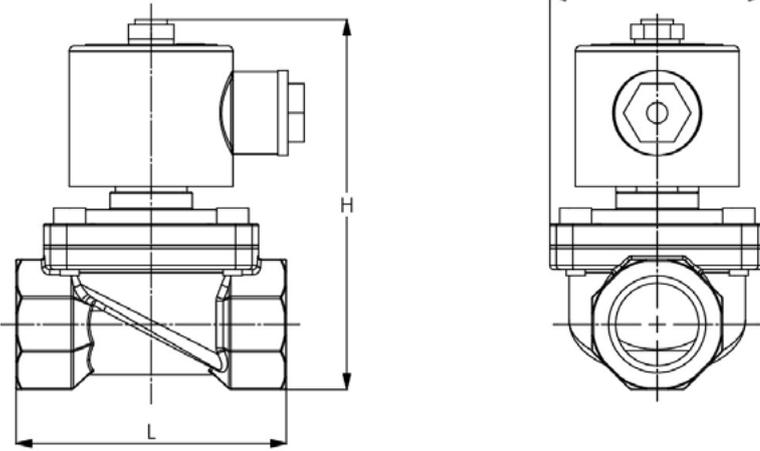
\*For water service, the valve operates in direct-acting mode, allowing operation from 0 psi differential pressure

\*\*For air service, the valve operates in a semi-direct acting mode, requiring a minimum differential pressure of 7 psi for reliable operation.

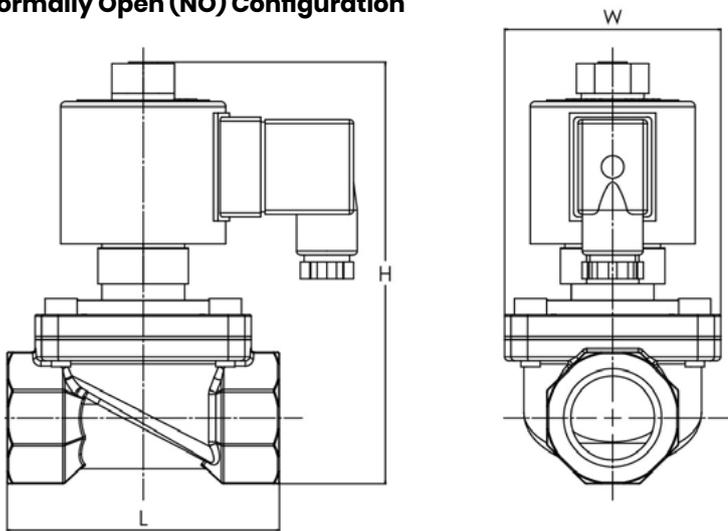
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## Normally Closed (NC) Configuration



## Normally Open (NO) Configuration



## Dimension

Pipe Size (in)	Dimension (in)			Weight (lb)
	H	L	W	
<b>NORMALLY CLOSED (NC)</b>				
1/2	4.00	2.36	1.80	1.38
3/4	4.25	2.65	2.00	1.38
1	4.50	3.25	2.60	2.19
1 1/2	6.00	4.33	3.35	4.44
2	6.50	5.30	4.25	6.19
<b>NORMALLY OPEN (NO)</b>				
1/2	4.30	2.36	1.80	1.56
3/4	4.70	2.65	2.00	1.63
1	5.00	3.25	2.60	2.44
1 1/2	6.60	4.50	3.35	5.06
2	7.15	5.30	4.25	6.81

- (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

**S**   **ZW**   **-**   **15**   **K**   **-**   **110V**   **AC**

**VALVE BODY MATERIAL**

CODE	DESCRIPTION
S	STAINLESS STEEL

**VALVE SERIES**

CODE	DESCRIPTION
ZW	ZW SERIES

**PIPE SIZE**

CODE	DESCRIPTION
15	1/2" (DN15)
20	3/4" (DN20)
25	1" (DN25)
40	1 1/2" (DN40)
50	2" (DN50)

**VALVE TYPE**

CODE	DESCRIPTION
K	NORMALLY OPEN (NO)
(BLANK)	NORMALLY CLOSED (NC)

**VOLTAGE USED**

CODE	DESCRIPTION
12V	12V
24V	24V
110V	110V

**TYPE OF CURRENT**

CODE	DESCRIPTION
AC	ALTERNATING CURRENT
DC	DIRECT CURRENT

**EXAMPLE:**  
**SZW-15K-110VAC** indicates a stainless steel body ZW series valve, 1/2" NPT-Female, normally open configuration with 110V AC coil