

# SOLVLVNO

## Datasheet

2-Way, Internally Piloted  
 Normally Open, 1/2" - 2"  
 NPT, Potable Water



120VAC, 24VAC  
 or 24VDC  
 Power Input



UL Listed



Normally  
 Open



1/2" to 2" NPT  
 Available For This  
 Model  
 Various Other Sizes  
 Also Available

### Standards



### Product Overview

AGS water solenoid valves are normally open (N/O) and constructed with a durable lead free brass body, two-way inlet and outlet ports.

### Sizes Available

#### 120VAC Models

| Valve Size " (inch) NPT | AGS Part Number |
|-------------------------|-----------------|
| 1/2"                    | SOLVLVNO12      |
| 3/4"                    | SOLVLVNO34      |
| 1"                      | SOLVLVNO1       |
| 1+1/4"                  | SOLVLVNO114     |
| 1+1/2"                  | SOLVLVNO112     |
| 2"                      | SOLVLVNO2       |

#### 24VDC & 24VAC Models

| Valve Size " (inch) NPT | AGS Part Number         |
|-------------------------|-------------------------|
| 1/2"                    | SOLVLVNO12-24VDC or AC  |
| 3/4"                    | SOLVLVNO34-24VDC or AC  |
| 1"                      | SOLVLVNO1-24VDC or AC   |
| 1+1/4"                  | SOLVLVNO114-24VDC or AC |
| 1+1/2"                  | SOLVLVNO112-24VDC or AC |
| 2"                      | SOLVLVNO2-24VDC or AC   |

### Electrical Specifications

|                   |                |                     |        |
|-------------------|----------------|---------------------|--------|
| <b>Voltage</b>    | 120VAC / 24VAC | <b>Voltage</b>      | 24VDC  |
| <b>Inrush VA</b>  | 50/60Hz 82VA   | <b>Frequency Hz</b> | DC     |
| <b>Holding VA</b> | 50/60Hz 28VA   | <b>Power (W)</b>    | 20 W   |
| <b>Rating</b>     | Nema 4         | <b>Rating</b>       | Nema 4 |
| <b>Coil Type</b>  | D              | <b>Coil Type</b>    | D      |
| <b>Coil Class</b> | F              | <b>Coil Class</b>   | F      |

### Materials of Construction

|                      |                     |
|----------------------|---------------------|
| <b>Body</b>          | Lead Free Brass     |
| <b>Armature Tube</b> | Stainless Steel 300 |
| <b>Fixed Core</b>    | Stainless Steel 400 |
| <b>Plunger</b>       | Stainless Steel 400 |
| <b>Spring</b>        | Stainless Steel 300 |
| <b>Shading Ring</b>  | Copper              |
| <b>Orifice</b>       | Lead Free Brass     |

## Technical Specifications

### 120VAC Models

Resistance 0.138

| Pipe Size<br>(Inch) | Orifice<br>(Inch) | Flow Factor<br>(CV) | Pressure<br>(PSI) | Temp. Range | Voltage | Inrush<br>VA<br>Rating | Holding<br>VA<br>Rating | External Dimensions<br>Length x Width x Height<br>(Inches) | Model       | Connector<br>Supplied | Medium Examples | Sealing<br>Material |
|---------------------|-------------------|---------------------|-------------------|-------------|---------|------------------------|-------------------------|------------------------------------------------------------|-------------|-----------------------|-----------------|---------------------|
| 1/2"                | 1/2"              | 4.5                 | 0.5-190           | 32-266°F    | 120VAC  | 82                     | 28                      | 2.59 x 1.89 x 4.89                                         | SOLVLVNO12  | Wire Connector        | Potable Water   | EPDM                |
| 3/4"                | 3/4"              | 7.6                 | 0.5-190           | 32-266°F    | 120VAC  | 82                     | 28                      | 2.95 x 2.28 x 5.12                                         | SOLVLVNO34  | Wire Connector        | Potable Water   | EPDM                |
| 1"                  | 1"                | 12                  | 0.5-190           | 32-266°F    | 120VAC  | 82                     | 28                      | 3.78 x 2.76 x 5.16                                         | SOLVLVNO1   | Wire Connector        | Potable Water   | EPDM                |
| 1 1/4"              | 1 1/4"            | 22                  | 0.5-115           | 32-266°F    | 120VAC  | 82                     | 28                      | 5.16 x 3.78 x 6.22                                         | SOLVLVNO114 | Wire Connector        | Potable Water   | EPDM                |
| 1 1/2"              | 1 1/2"            | 30                  | 0.5-115           | 32-266°F    | 120VAC  | 82                     | 28                      | 5.16 x 3.78 x 6.22                                         | SOLVLVNO112 | Wire Connector        | Potable Water   | EPDM                |
| 2"                  | 2"                | 48                  | 0.5-115           | 32-266°F    | 120VAC  | 82                     | 28                      | 6.50 x 4.72 x 7.04                                         | SOLVLVNO2   | Wire Connector        | Potable Water   | EPDM                |

### 24VAC Models

Resistance 0.002

| Pipe Size<br>(Inch) | Orifice<br>(Inch) | Flow Factor<br>(CV) | Pressure<br>(PSI) | Temp. Range | Voltage | Inrush<br>VA<br>Rating | Holding<br>VA<br>Rating | External Dimensions<br>Length x Width x Height<br>(Inches) | Model             | Connector<br>Supplied | Medium Examples | Sealing<br>Material |
|---------------------|-------------------|---------------------|-------------------|-------------|---------|------------------------|-------------------------|------------------------------------------------------------|-------------------|-----------------------|-----------------|---------------------|
| 1/2"                | 1/2"              | 4.5                 | 0.5-190           | 32-266°F    | 24VAC   | 45                     | 18                      | 2.59 x 1.89 x 4.89                                         | SOLVLVNO12-24VAC  | Wire Connector        | Potable Water   | EPDM                |
| 3/4"                | 3/4"              | 7.6                 | 0.5-190           | 32-266°F    | 24VAC   | 45                     | 18                      | 2.95 x 2.28 x 5.12                                         | SOLVLVNO34-24VAC  | Wire Connector        | Potable Water   | EPDM                |
| 1"                  | 1"                | 12                  | 0.5-190           | 32-266°F    | 24VAC   | 45                     | 18                      | 3.78 x 2.76 x 5.16                                         | SOLVLVNO1-24VAC   | Wire Connector        | Potable Water   | EPDM                |
| 1 1/4"              | 1 1/4"            | 22                  | 0.5-115           | 32-266°F    | 24VAC   | 45                     | 18                      | 5.16 x 3.78 x 6.22                                         | SOLVLVNO114-24VAC | Wire Connector        | Potable Water   | EPDM                |
| 1 1/2"              | 1 1/2"            | 30                  | 0.5-115           | 32-266°F    | 24VAC   | 45                     | 18                      | 5.16 x 3.78 x 6.22                                         | SOLVLVNO112-24VAC | Wire Connector        | Potable Water   | EPDM                |
| 2"                  | 2"                | 48                  | 0.5-115           | 32-266°F    | 24VAC   | 45                     | 18                      | 6.50 x 4.72 x 7.04                                         | SOLVLVNO2-24VAC   | Wire Connector        | Potable Water   | EPDM                |

### 24VDC Models

Resistance 0.032

| Pipe Size<br>(Inch) | Orifice<br>(Inch) | Flow Factor<br>(CV) | Pressure<br>(PSI) | Temp. Range | Voltage | W Rating | External Dimensions<br>Length x Width x Height<br>(Inches) | Model             | Connector<br>Supplied | Medium Examples | Sealing<br>Material |
|---------------------|-------------------|---------------------|-------------------|-------------|---------|----------|------------------------------------------------------------|-------------------|-----------------------|-----------------|---------------------|
| 1/2"                | 1/2"              | 4.5                 | 0.5-190           | 32-266°F    | 24VDC   | 20       | 2.59 x 1.89 x 4.89                                         | SOLVLVNO12-24VDC  | Wire Connector        | Potable Water   | EPDM                |
| 3/4"                | 3/4"              | 7.6                 | 0.5-190           | 32-266°F    | 24VDC   | 20       | 2.95 x 2.28 x 5.12                                         | SOLVLVNO34-24VDC  | Wire Connector        | Potable Water   | EPDM                |
| 1"                  | 1"                | 12                  | 0.5-190           | 32-266°F    | 24VDC   | 20       | 3.78 x 2.76 x 5.16                                         | SOLVLVNO1-24VDC   | Wire Connector        | Potable Water   | EPDM                |
| 1 1/4"              | 1 1/4"            | 22                  | 0.5-115           | 32-266°F    | 24VDC   | 20       | 5.16 x 3.78 x 6.22                                         | SOLVLVNO114-24VDC | Wire Connector        | Potable Water   | EPDM                |
| 1 1/2"              | 1 1/2"            | 30                  | 0.5-115           | 32-266°F    | 24VDC   | 20       | 5.16 x 3.78 x 6.22                                         | SOLVLVNO112-24VDC | Wire Connector        | Potable Water   | EPDM                |
| 2"                  | 2"                | 48                  | 0.5-115           | 32-266°F    | 24VDC   | 20       | 6.50 x 4.72 x 7.04                                         | SOLVLVNO2-24VDC   | Wire Connector        | Potable Water   | EPDM                |

## Popular Applications

- Schools
- Laboratories
- Residential
- Hospitals
- Drinking Water Control

Find out more

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