2-WAY SOLENOID STEAM VALVE

2-way normally closed solenoid valve with wet plunger design.

Applications
- Beverage machines
- Vending equipment
- Water purification equipment
- Potable water applications

Features
- Up to 38 psi MOPD
- Push-in or barb fittings
- UL and NSF certified
- PPSU body
- Class H (180°C) construction
- Suitable for water, air & steam

### Electrical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coil Voltages</td>
<td>12, 24, 36 VDC</td>
</tr>
<tr>
<td>Coil Power</td>
<td>7 watts</td>
</tr>
<tr>
<td>Coil Terminals</td>
<td>0.25” Quick connect spade terminals</td>
</tr>
<tr>
<td>Duty Cycle</td>
<td>Continuous 100%</td>
</tr>
<tr>
<td>Coil Treatment</td>
<td>Polyester encapsulated</td>
</tr>
<tr>
<td>Insulation Class</td>
<td>Class H 356° F [180° C]</td>
</tr>
<tr>
<td>Ambient Temperature</td>
<td>77° F [25° C]</td>
</tr>
</tbody>
</table>

### Mechanical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Media</td>
<td>Water, air, steam [1]</td>
</tr>
<tr>
<td>Media Temperature</td>
<td>Up to 284° F [140° C] for barbed fittings; 266° F [130° C] for push-in fittings</td>
</tr>
<tr>
<td>Operating Pressure</td>
<td>38 psi [2.6 bar] for barbed fittings; 25 psi [1.7 bar] for push-in fittings</td>
</tr>
<tr>
<td>Burst Pressure</td>
<td>450 psi</td>
</tr>
<tr>
<td>Inlet / Outlet Connections</td>
<td>0.25” quick connect push-in fittings</td>
</tr>
<tr>
<td></td>
<td>¼” barb fittings for ⅛” I.D. PTFE tubing</td>
</tr>
<tr>
<td>Mounting</td>
<td>2 Ø0.15 [3.8] holes on body for self tapping screw</td>
</tr>
<tr>
<td>Valve Body Material</td>
<td>PPSU- Polyphenylsulfone</td>
</tr>
<tr>
<td>Seal Material</td>
<td>Fluorocarbon</td>
</tr>
<tr>
<td>Product Weight</td>
<td>4 oz</td>
</tr>
</tbody>
</table>

### Agency Certifications

UR, cUR, NSF

[1] Saturated steam up to 38 psi [2.6 bar], 284° F [140° C] for barbed fittings; 25 psi [1.7 bar], 266° F [130° C] for push-in fittings
DSV28N-NC-S

Dimensional Drawing
Units: Inches [mm]

Flow Rate

DSV28 Flow Curves
Wet Plunger - Steam

Specifications subject to change without notice
2 of 4
Rev 4/21/2020

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# Ordering Information

DSV28N - NC - S- XXXX - XX - XXX

## COIL VOLTAGE
- 12 VDC = 012D
- 24 VDC = 024D
- 36 VDC = 036D

## PORT FITTINGS
- QC 1/4 = Q2
- ¼” BARB = B1

## VALVE SEAT DIAMETER
- Ø0.120 [3.0] = 120
- Ø0.088 [2.2] = 088
- Ø0.060 [1.5] = 060

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The cartridges used in these valves are Kynar cartridges.

**Operating Temp:**
+35° to 210° F, [UP TO 284° F for Steam]

**Tube Types:**
*Plastic Tube* - PTFE conforming to the tolerances below.

*Metal Tube (soft)* - Brass, copper, or mild steel conforming to the tolerance shown below. Recommended for steam. Hard metal tubing is not recommended.

It is essential that the outside diameter is free from score marks and that the tube be deburred before inserting into the cartridges. Small chamfer on outside of tubing is recommended.

**Tube Tolerances:**
Size: 0.25"
Tolerance: +0.001/-0.004

**Cleaners and Sanitizing of Kynar Fittings:**
Cartridges incorporate kynar parts. Our advise to customers is to use cleaners and sanitizing agents that are above pH4 and low in hypochlorite level. Kynar fittings and parts that are cleaned and/or sanitized should be rinsed immediately with copious amounts of clean tap water to remove all traces of the cleaners.

**Warranty:**
While we give a warranty against defects in manufacture or materials, it is the responsibility of the specifier to ensure that fittings and related products are suitable for their application. The installation must be carried out correctly in accordance with our recommendations complying with recognized codes of practice and relevant national standards, and be properly maintained. Please refer to our terms and conditions of sale.

**Product Selection:**
Due to the wide variety of operating conditions, applications, and uses of our products, it is the user’s / specifiers responsibility, through their own testing analysis, to ensure correct product selection for their applications.

**Side Loads:**
Connections should not be subject to excessive side loads or used as support brackets. Tubing and fittings should be adequately supported to prevent excessive side loading.

Customers are advised to carry out appropriate testing to ensure cartridges are suitable for their application.