DSVP12NHF DISPENSE VALVE

2-Way, direct-acting, gravity fed solenoid valve designed to dispense water or similar media from a tank.

Applications
- Ice maker equipment
- Tank or boiler draining
- Potable water applications,

Features
- UR, cUR, & ENEC* Cert.
- Up to 3 psi differential
- Multiple connection options
- Service & configure without tools
- Rotatable coil
- Rectified AC coils [1]
*Select Models

### Electrical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coil Voltages</td>
<td>24, 110/120, 220/240 VAC 50/60 Hz [1], 12, 24, 36 VDC</td>
</tr>
<tr>
<td>Coil Power</td>
<td>AC valves 12W Cont / 16W Int</td>
</tr>
<tr>
<td>Coil Termination</td>
<td>0.25” x 0.03” spade terms std. (See additional options on page 5)</td>
</tr>
<tr>
<td>Coil Rectification</td>
<td>AC coils are rectified - Full and half wave options available [1] (Non-rectified version available)</td>
</tr>
<tr>
<td>Duty Cycle</td>
<td>Cont = 100%</td>
</tr>
<tr>
<td>Coil Treatment</td>
<td>Polyester encapsulated</td>
</tr>
<tr>
<td>Insulation Class</td>
<td>Class F (155º C)</td>
</tr>
<tr>
<td>Ambient Temperature</td>
<td>25º 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 up to 99º C with Polysulfone bodies</td>
</tr>
<tr>
<td>Operating Pressure</td>
<td>0-45 inches water column (up to 3 psi available upon request)</td>
</tr>
<tr>
<td>Operating Position</td>
<td>Any position between horizontal and facing up.</td>
</tr>
<tr>
<td>Mouting Bracket</td>
<td>Available in any 90º increment - see details on subsequent pages</td>
</tr>
<tr>
<td>Inlet / Outlet Connections</td>
<td>See dimensional drawing</td>
</tr>
<tr>
<td>Valve Body Material</td>
<td>PSU - Polysulfone, PPE - Noryl®</td>
</tr>
<tr>
<td>Diaphragm Material</td>
<td>VMQ - Silicone</td>
</tr>
<tr>
<td>Weight</td>
<td>7.5 oz.</td>
</tr>
</tbody>
</table>

### Agency Approvals

- UR, cUR, NSF, ENEC, WRAS (Agency approvals do not apply to every valve configuration)

### Patents

- US Patent 6,684,901

[1] AC coils are internally rectified. The rectifiers may require protection from transient voltages. It is recommended that a metal-oxide varistor (MOV) be placed in parallel at the coil.

VITON® is a registered trademark of Dupont
NORYL® is a registered trademark of SABIC
Specifications subject to change without notice
DSVP12NHF

Dimensional View
Units: Inches [mm]

NORYL® is a registered trademark of SABIC
Specifications subject to change without notice

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Mounting Bracket Orientation Options
Bracket will be set at specified position during assembly.
Bracket position may also be set to desired position by customer after assembly.

- Front over inlet port
- Left of inlet port
- Right of inlet port
- Back opposite inlet port

Frame Orientation Options
Frame will be set at specified position during assembly.
Frame position may also be set to desired position by customer after assembly.

- Left of inlet port
- Right of inlet port
- Front over inlet port
- Back opposite inlet port
Coil Terminal Orientation Options
Coil terminal orientation will be set at specified position during assembly.
Coil terminal orientation may also be set to desired position by customer after assembly.

Flow Data
Flow data is approximate and will be affected by application variables.
User must verify performance in their application.

Water temperature at 23°C

DSVP12HF
Water temperature at 23 °C

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DSVP12NHF

Alternate Coil Options

The coil termination options below are now available for our DSVP12 valve. Benefits include expanded connection options, improved ingress protection, and improved corrosion resistance.

**ISO 4400 (DIN 43650 FORM A)**
- IP-67 Rating
- Encapsulated class F (155°C) coil construction

**MOLDED-IN 20 GA LEAD WIRES**
- Connectors can be assembled to lead wires
- Encapsulated class F (155°C) coil construction

**DEUTSCH DT04-2P**
- IP-69 Rating
- Encapsulated class F (155°C) coil construction

**QUICK CONNECT 1/4” SPADE TERMINALS**
- Encapsulated class F (155°C) coil construction
Ordering Information - Non-Standard Configurations
(Minimum Quantities Apply)

When ordering, please provide as much of the following information as possible to help specify the appropriate valve configuration for your application. If you require assistance, please contact a Deltrol Controls Sales Engineer:

1. What voltage will be supplied to the valve?
   • 12VDC • 24VAC 50/60Hz
   • 24VDC • 110/120VAC 50/60Hz
   • 36VDC • 220/240VAC 50/60Hz

2. How do you want the mounting bracket oriented? (See Mounting Bracket Orientation Options on page 3)
   • Front over inlet port • Right of inlet port
   • Left of inlet port • Back opposite inlet port

3. How do you want the frame leg oriented? (See Frame Orientation Options on page 3)
   • Front over inlet port • Right of inlet port
   • Left of inlet port • Back opposite inlet port

4. How do you want the coil terminals oriented? (See Coil Terminal Orientation Options on page 4)
   • Position #1 • Position #4
   • Position #2 • Position #5
   • Position #3

5. What coil spade terminal configuration will your application require?
   • Straight, as shown in the Dimensional View on page 2
   • Bent up (either 45° or 90°), away from valve body
   • Bent down (either 45° or 90°), towards valve body

6. What is the head pressure in your application in inches of water column?

7. Do you require an alternate coil option shown on page 5?
   • ISO 4400 (DIN 43650 Form A) • Molded-in lead wires
   • Deutsch DT04-2P • 1/4” spade terminals