**DSVP12N 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, NSF, & ENEC* Cert.
- Up to 3 psi differential
- Multiple connection options
- Service & configure without tools
- Rotatable coil
- Rectified AC coils [1]
* Select Models

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**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]</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 (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 body</td>
</tr>
<tr>
<td>Operating Pressure</td>
<td>0-24 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 options on subsequent pages.</td>
</tr>
<tr>
<td>Vent Tube Option</td>
<td>Available upon request</td>
</tr>
<tr>
<td>Valve Body Material</td>
<td>PSU - Polysulfone, PPE - Noryl®, PA66 - Nylon</td>
</tr>
<tr>
<td>Diaphragm Material</td>
<td>VMQ - Silicone</td>
</tr>
<tr>
<td>Weight</td>
<td>7.5 oz.</td>
</tr>
<tr>
<td>Agency Approvals</td>
<td>UR, cUR, NSF, ENEC (Agency approvals do not apply to every configuration)</td>
</tr>
<tr>
<td>Patents</td>
<td>US Patent 6,684,901</td>
</tr>
</tbody>
</table>

[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.
DSVP12N

Dimensional View
Units: Inches [mm]

Valve Body Options
Units: Inches [mm]

Valve Body A
Available in:
Noryl®, Nylon, Polysulfone

Valve Body B
Available in:
Noryl®, Nylon, Polysulfone

NORYL® is a registered trademark of SABIC

Specifications subject to change without notice
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, and can also be set to desired position by customer after assembly. Coil terminal orientation options are only available with the standard coil.

Position # 1  Position # 2  Position # 3  Position # 4  Position # 5

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

Inlet Pressure (inches of water column)  Flow Rate (fl oz / sec)

Valve Body A
Valve Body B

See page 2 for a description of the body styles

Specifications subject to change without notice
DSVP12N

Alternate Coil Options

The coil termination options below are now available for our DSVP12N 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
- Available in: 12, 24, 36 VDC and 24, 120, 240 VAC

MOLDED-IN 20 GA LEAD WIRES
- Connectors can be assembled to lead wires
- Encapsulated class F (155° C) coil construction
- Available in: 12, 24, 36 VDC

DEUTSCH DT04-2P
- IP-69 Rating
- Encapsulated class F (155° C) coil construction
- Available in: 12, 24, 36 VDC

QUICK CONNECT 1/4” SPADE TERMINALS
- Encapsulated class F (155° C) coil construction
- Available in: 12, 24, 36 VDC and 24, 120, 240 VAC
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. What valve body option does your application require? (See Valve Body Options on page 2)
   • Valve body A (Available in Noryl®, Nylon or Polysulfone)
   • Valve body B (Available in Noryl®, Nylon or Polysulfone)

3. What diaphragm material does your application require?
   • VMQ - Silicone

4. 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)

5. 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)

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

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

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

9. Do you require an alternate coil? (See page 5 for options and available voltages)
   • ISO 4400 (DIN 43650 Form A)  • Molded-in lead wires
   • Deutsch DT04-2P          • 1/4” spade terminals
## Ordering Information - Standard Configurations

The parts listed below are standard configurations that are typically available through distribution. Please contact your nearest Deltrol distributor for small volume pricing.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Model</th>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>74017-80</td>
<td>DSVP12N-2LSX-24A-R3SR</td>
<td>24 VAC</td>
</tr>
<tr>
<td>74017-81</td>
<td>DSVP12N-2LSX-120A-R3SR</td>
<td>110/120 VAC 50/60 HZ</td>
</tr>
<tr>
<td>74017-82</td>
<td>DSVP12N-2LSX-240A-R3SR</td>
<td>220/240 VAC 50/60 HZ</td>
</tr>
<tr>
<td>74016-81</td>
<td>DSVP12N-2LSX-24D-R3SR</td>
<td>24 VDC</td>
</tr>
</tbody>
</table>

- **COIL TERMINATION:** 0.25x0.03 TERMINALS (ORIENTED TO LEFT OF INLET PORT)
- **FIXED FLOW**
- **VALVE BODY A:** SEE PAGE 2 FOR DETAILS
- **NO VENT TUBE**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>70105-01</td>
<td>SILICONE DIAPHRAGM</td>
</tr>
</tbody>
</table>

- **SILICONE MATERIAL FOR POTABLE WATER APPLICATIONS**

For other part inquiries please call our factory.