

# DSV28N-NC-D



## 2-WAY SOLENOID VALVE



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



Select models

### Applications

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

### Features

- Up to 60 psi MOPD Compression, push-to-connect fitting, barb port, and bulkhead fitting options
- UL and NSF certified
- Polysulfone body, Nylon
- Class F (155°C) construction
- Suitable for water, air, or alcohol

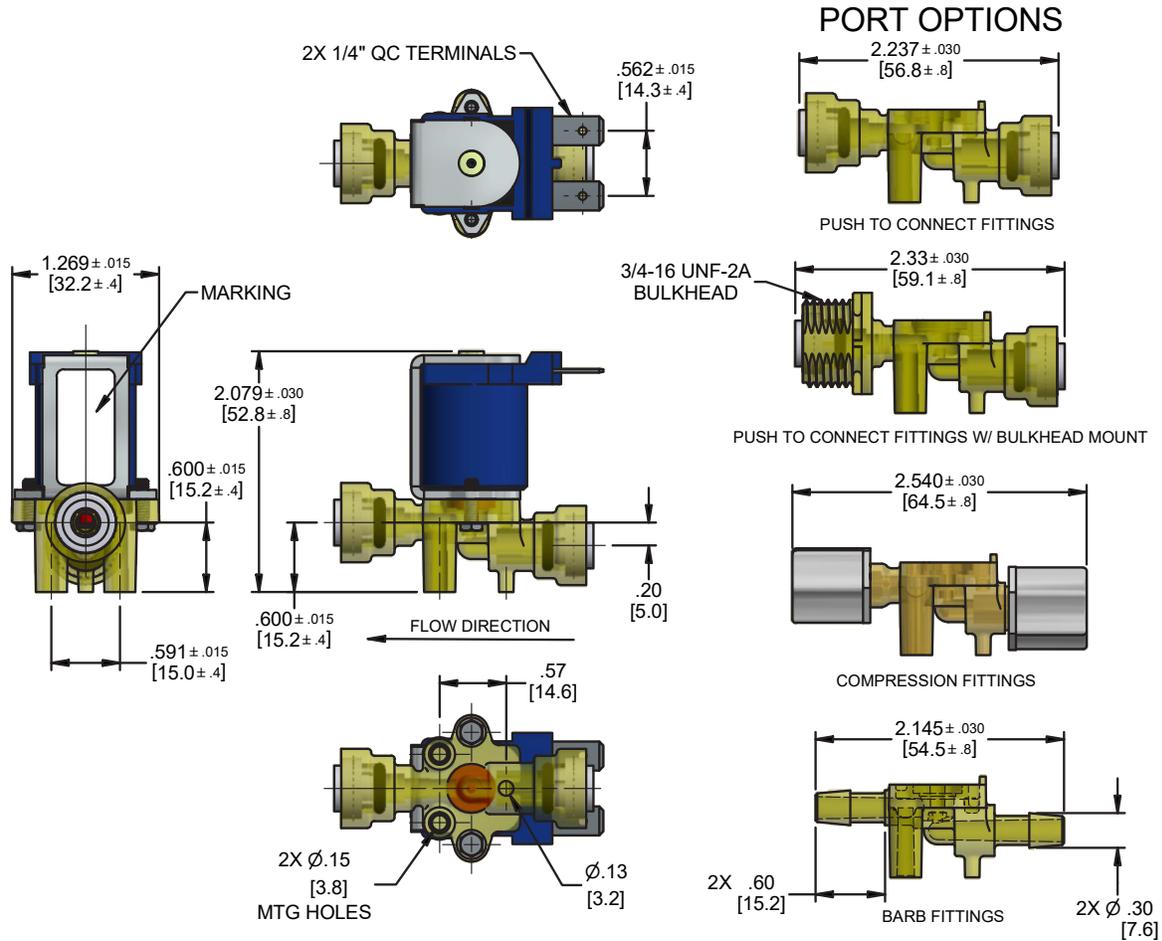
Electrical Specifications	
Coil Voltages	24, 100, 120, 200, 240 VAC 50, 60 Hz [1]   12, 24, 36 VDC
Coil Power	7 watts
Coil Terminals	0.25" Quick connect spade terminals
Duty Cycle	Continuous 100%
Coil Treatment	Polyester encapsulated
Insulation Class	Class F 311° F [155° C]
Ambient Temperature	77° F [25° C]
Mechanical Specifications	
Media	Water, air
Media Temperature	Up to 150°F [65° C] for QC fittings   Up to 200° F [93° C] for compression fittings
Operating Pressure	0-30 psi [2 bar] for Ø0.088 valve seat   0-60 psi [4.1 bar] for Ø0.060 valve seat
Burst Pressure	450 psi
Inlet / Outlet Connections (See page 4 for tube size and assy notes)	6mm & 0.25" quick connect push in fittings Ø5/16 [8mm], Ø1/4, or Ø6mm Jaco Compression Fittings 1/4" barb fittings for 1/4" ID tubing
Mounting	2 Ø0.15 [3.8] holes on body for self tapping screws
Valve Body Material	PSU - Polysulfone
Seal Material	Silicone
Product Weight	4 oz.
Agency Certifications	
	UR, cUR, NSF (Certifications Pending)

[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.

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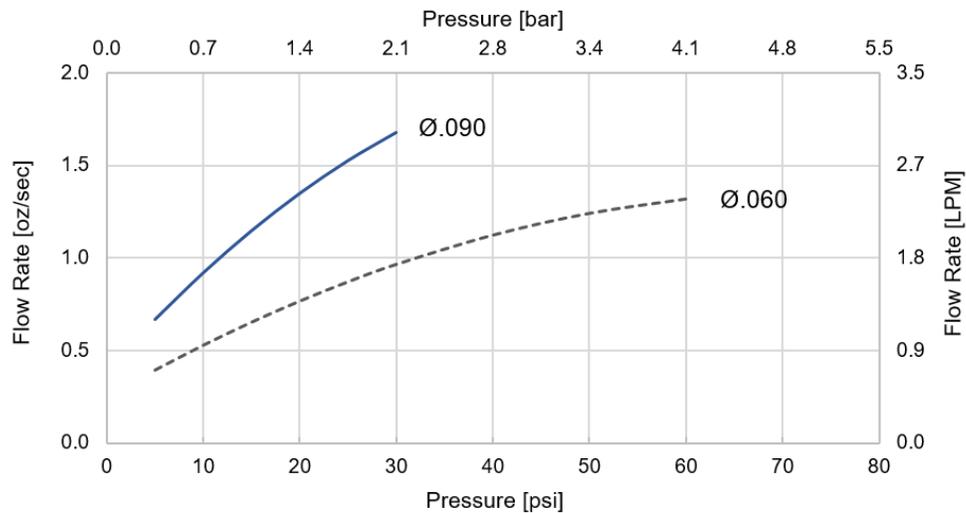
## Dimensional Drawing

Units: Inches [mm]



## Flow Rate

**DSV28 Flow Curves**  
 Dry Plunger - Water



## Ordering Information

DSV28N - NC - D- XXXX - XX - XXX

**COIL VOLTAGE**

24 VAC = 024A  
100 VAC = 100A  
120 VAC = 120A  
200 VAC = 200A  
240 VAC = 240A

12 VDC = 012D  
24 VDC = 024D  
36 VDC = 036D

**PORT FITTINGS**

QC 6 mm = Q1  
QC 1/4" = Q2

COMPRESSION 5/16"  
[8 mm] = C1  
COMPRESSION 1/4" = C2  
COMPRESSION 6 mm = C3  
1/4" BARB = B1  
(for 1/4" ID Tubing)  
BULKHEAD 6 mm = H1  
BULKHEAD 1/4" = H2

**VALVE SEAT DIAMETER**

Ø0.088 [2.2] = 088 (30 psi max)  
Ø0.060 [1.5] = 060 (60 psi max)

## **Quick Connect Fittings (John Guest)** - Information taken from John Guest's website [www.johnguest.com](http://www.johnguest.com).

The cartridges used in these valves are Acetal cartridges.

### Potable Water Temp:

+34° to 149° F [+1° to 65° C]

### Tube Types:

*Plastic Tube* - Polyethylene, nylon, and polyurethane conforming to the tolerances below. For soft or thin walled tube we recommend the use of tube inserts.

*Metal Tube (soft)* - Brass, copper, or mild steel conforming to the tolerance shown below. 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.

### Tube Tolerances:

Size:	0.25"	6mm
Tolerance:	+0.001/-0.004	+0.05/-0.10

### Cleaners and Sanitizing of Acetal Fittings:

John Guest Cartridges incorporate acetal parts. Our advise to customers is to use cleaners and sanitizing agents that are above pH4 and low in hypochlorite level. Acetal 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.

### Product Design:

John Guest has a policy of continuous research and development

and reserves the right to amend without notice the specification and design of all products. Product descriptions and sizes are approximate and John Guest reserves the right to supply products which may have minor and negligible deviations from that printed in catalogues etc. (or from products previously supplied).

### 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.

## **Compression Fittings (Jaco)** - Information taken from Jaco Mfg.'s website [www.jacomfg.com](http://www.jacomfg.com).

Installation instructions for Jaco tube fittings:

1. Cut the tubing end squarely and remove the internal and external burrs.
2. Insert the tubing through the back of the nut all the way through the nut assembly to the tube stop in the valve body. If the tubing does not enter the nut easily, loosen the nut one turn and then insert the tubing all the way to the tube stop in the valve body.
3. Turn the nut hand tight.
4. Wrench tighten the nut 1-1/2 - 2 turns.
5. All nuts must be retightened when the system reaches projected operating temperature.

Note: Squeaking sound when tightening nut is normal.