DSV28N-NC-W

Deltrol CONTROLS

2-WAY SOLENOID 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 150 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	DC & Rectified AC [1]	Shaded Pole
Coil Voltages	12, 24, 36 VDC, 24, 100, 120, 240 VAC 50/60 Hz	110/120VAC, 208VAC, 220/240VAC 50/60 Hz
Coil Power	7 Watts	8.2VA
Ambient Temperature	77°F[25°C]	122°F[50°C]
Duty Cycle	Continuous	
Coil Treatment	Polyester encalsulated	
Insulation Class	Class F 311°F[155°C]	
Coil Terminals	0.25" Quick connect spade terminals	
Mechanical Specifications		
Media	Water, Air, Alcohol	
Media Temperature	Up to 150°F [65°C] for QC fittings, Up to 200°F [93°C] for compression fittings	
Operating Pressure	0-40 psi [3.4 bar] - Ø.120 orifice	0-70 psi [4.8 bar] - Ø.120 orifice
	0-80 psi [0-5.5 bar] - Ø.088 orifice	0-120 psi [0-8.2 bar] - Ø.088 orifice
	0-120 psi [8.2 bar] - Ø.060 orifice	0-150 psi [10.2 bar] - Ø.060 orifice
Burst Pressure	600 psi	750 psi
Inlet/Outlet Connections [2]	6 mm & .25" push to connect, Ø5/16[8 mm] or 6 mm compression nut, 1/4" hose barb	
Mounting	2 Ø0.15 [3.8] holes on body for self tapping screw, 3/4-16 UNF-2a bulkhead mount option	
Valve Body Material	PSU - Polysulfone, Nylon	
Seal Material	EPDM, Nitrile, Fluorocarbon	
Product Weight	4 oz	
Agency Certifications	cURus, NSF	

[1] AC coils that 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

Specifications subject to change without notice

Rev 4/17/2020

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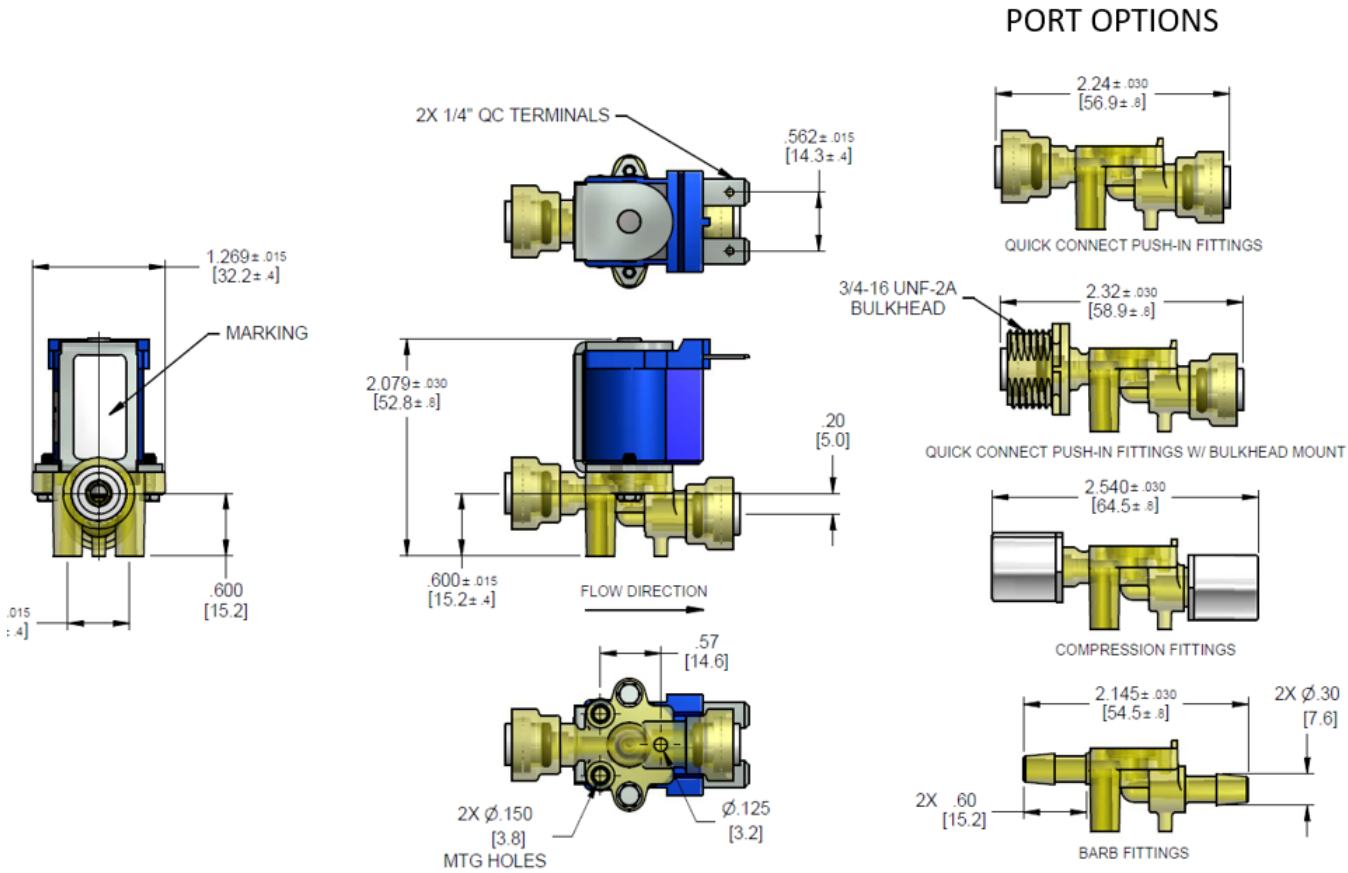
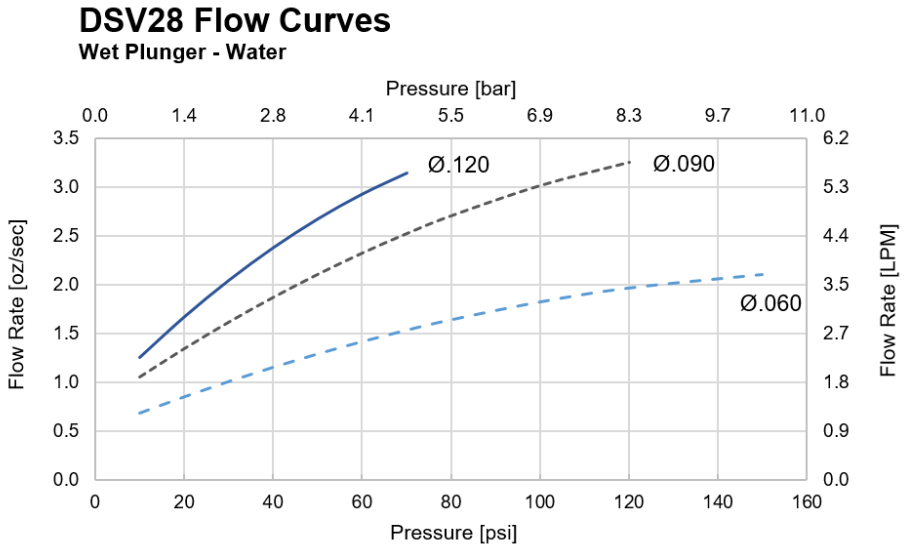
Dimensional Drawing

Units: Inches [mm]



Flow Rate



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Ordering Information

DSV28N - NC - W- XXXX - XX - XXX

COIL VOLTAGE
[Rectified AC]
24 VAC = 024A
100 VAC = 100A
120 VAC = 120A
200 VAC = 200A
240 VAC = 240A

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

Shaded Pole AC
120 VAC = 100 S
208 VAC = 208 S
240 VAC = 240 S

PORT FITTINGS

QC 6 mm = Q1
QC ¼ = Q2

COMPRESSION $^{5}/_{16}$"
[8 mm] = C1
COMPRESSION ¼" = C2
COMPRESSION 6 mm = C3
¼" BARB = B1
(for ¼" ID Tubing)
BULKHEAD 6 mm = H1
BULKHEAD ¼" = H2

VALVE SEAT DIAMETER

Ø0.088 [2.2] = 088
Ø0.060 [1.5] = 060
Ø0.120 [3.0] = 120

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Quick Connect Fittings (John Guest) - Information taken from John Guest's website 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 ammend 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 cataloges 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.

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.

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