



FEATURES

- 2-way, 2 position valve, normally closed, bidirectional flow
- Non-elastomeric design allows for high media compatibility
- · Compact size, only 8 mm in width
- Fulfils leakage specification for over 1 million cycles
- Ensures high reliability with its single piece body design
- Barbed pressure ports allow for direct tubing or manifold assemblies
- · RoHS compliant
- · PRO services



MEDIA COMPATIBILITY

Water, alcohols (methanol, ethanol), solvents, solvent based inks (MEK), etc.

WETTED MATERIALS

PBT (polybutylene terephthalate); 430 series stainless steel; 302 series stainless steel

ELECTRICAL

Power (C.no.;)

TN2P006L... (6 psi) 0.5 W TN2P030C... (30 psi) 1.0 W

Voltage 3, 5, 12, 24 V_{DC}

Electrical connections PC pins, 4 mm centers (compatible with Molex 51065 Series connector or equivalent)

PHYSICAL PROPERTIES

Operating environment 0 to 50 °C

Storage temperature -40 to 70 °C

Length 24 mm (0.92 in)

Width 7.9 mm (0.31 in)

Height 9.5 mm (0.375 in)

Spacing 8 mm (centerline)

Porting Universal barbs for 1/16 in I.D. tubing

(1/32 in wall max.) or

manifold mount with gasket

Weight 4.5 g (0.16 oz)

Internal volume 0.074 cm³ (0.0045 in³)

Filtration (recommended) 10 µm

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8 mm non elastomeric switching solenoid valves

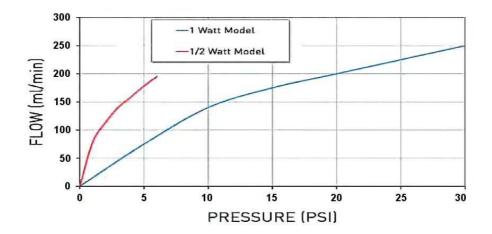
PERFORMANCE CHARACTERISTICS

Part no.	Pressure ²	Minimum flow (water)	Orifice sizes/ Equivalent C _v ¹	Leak rate @ 6 psi	Response	
TN2P006L	06 psid	160 ml/min @ 6 psi	0.045" (1.143 mm)/ 0.018 C _v	≤0.02 ccm water	<20 ms cycling	
TN2P030C	030 psid	225 ml/min @ 30 psi	0.030" (0.762 mm)/ 0.010 C _V	(water tight)		

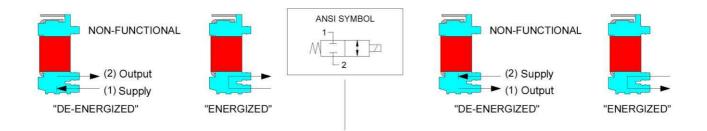
Notes:

2. Proof pressure is 200 psig

FLOW CURVE (typical water flow)



BIDIRECTIONAL FLOW CHART



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^{1.} The C_v value is the volume flow in US gallons/min under specific flow conditions and describes the relative flow capacity of a valve. The equivalent european measure is the k_v value expressed in m^3/h ($k_v = 0.86 C_v$).

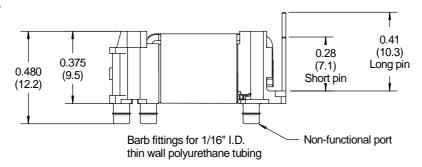




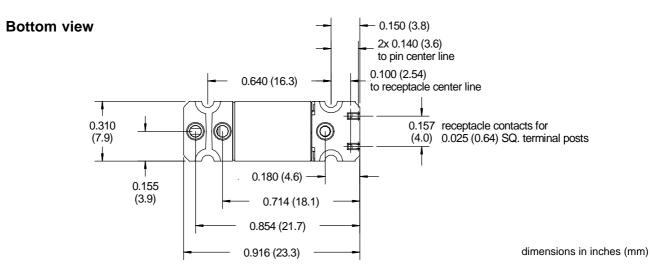
8 mm non elastomeric switching solenoid valves

OUTLINE DRAWING

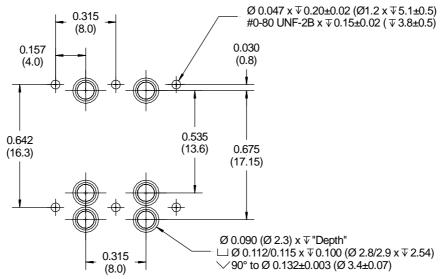
Side view



dimensions in inches (mm)



Manifold mount diagram



dimensions in inches (mm)

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TN Series

8 mm non elastomeric switching solenoid valves

ORDERING INFORMATION

	Series	Ways / Pressure / Function		Elastomer		Voltage		Electical		Accessories	
Options	TN	2P006L	2 way, 6 psi, NC	M	Non elastomeric	03	3 V _{DC}	S	Short pins	В	Screws and gasket
		2P030C	2 way, 30 psi, NC			05 12 24	$\begin{array}{c} 5~\text{V}_{\text{DC}} \\ \text{(6 psi only)} \\ 12~\text{V}_{\text{DC}} \\ \\ 24~\text{V}_{\text{DC}} \end{array}$	L	Long pins	N	No accessories
Example:	TN	2P006L		M		03		S		В	

Note: Not all combinations might be available. Please contact First Sensor.

Accessories (please order separately using the following order numbers)

Order No.	Description		
ZK071248	Clear transparent polyurethane tubing, ID 1/16 inch (1.6 mm), OD 1/8 inch (3.2 mm)		
X-RETAINING CLIP	Solder clip for mounting		
X-PORT PLUG	Port plug		
X-CONNECTOR	12 " leads with connector		

PRO services:

- Extended warranty period of 2 years
- Advanced logistics models for supply inventory and short delivery times
- · Technical support through application engineers on the phone or at your site
- · Fastest possible technical response for design and QA engineers
- ... plus other services on request

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