

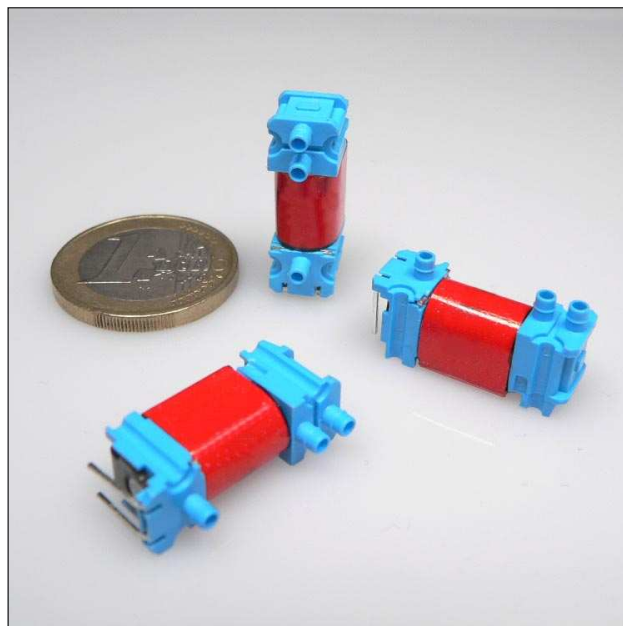


TN Series

8 mm non elastomeric switching solenoid valves

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

Voltage	3, 5, 12, 24 V _{DC}
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Electrical connections	PC pins, 4 mm centers (compatible with Molex 51065 Series connector or equivalent)
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PHYSICAL PROPERTIES

Operating environment	0 to 50 °C
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Storage temperature	-40 to 70 °C
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Length	24 mm (0.92 in)
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Width	7.9 mm (0.31 in)
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Height	9.5 mm (0.375 in)
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Spacing	8 mm (centerline)
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Porting	Universal barbs for 1/16 in I.D. tubing (1/32 in wall max.) or manifold mount with gasket
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Weight	4.5 g (0.16 oz)
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Internal volume	0.074 cm ³ (0.0045 in ³)
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Filtration (recommended)	10 µm
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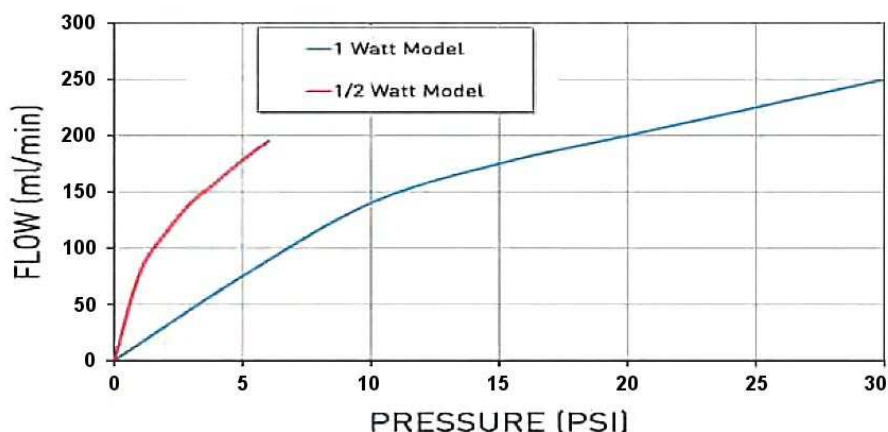
PERFORMANCE CHARACTERISTICS

Part no.	Pressure ²	Minimum flow (water)	Orifice sizes/ Equivalent C_v ¹	Leak rate @ 6 psi	Response
TN2P006L...	0...6 psid	160 ml/min @ 6 psi	0.045" (1.143 mm)/ 0.018 C_v	≤0.02 ccm water (water tight)	<20 ms cycling
TN2P030C...	0...30 psid	225 ml/min @ 30 psi	0.030" (0.762 mm)/ 0.010 C_v		

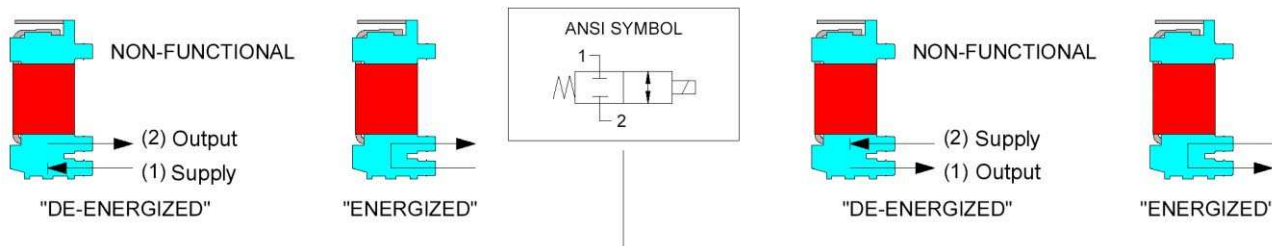
Notes:

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 ($k_v = 0.86 C_v$).
2. Proof pressure is 200 psig

FLOW CURVE (typical water flow)



BIDIRECTIONAL FLOW CHART



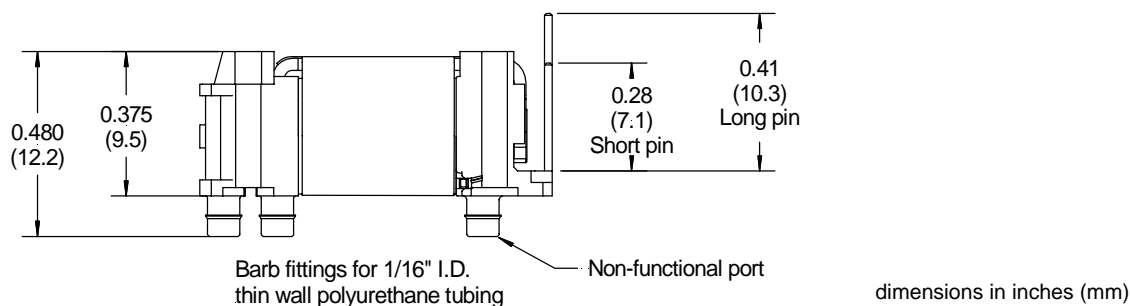


TN Series

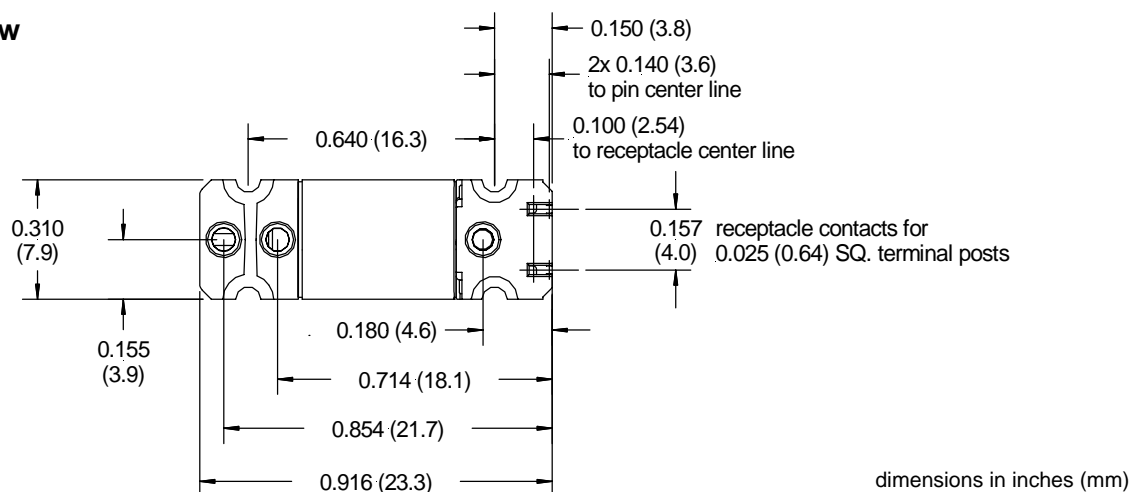
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OUTLINE DRAWING

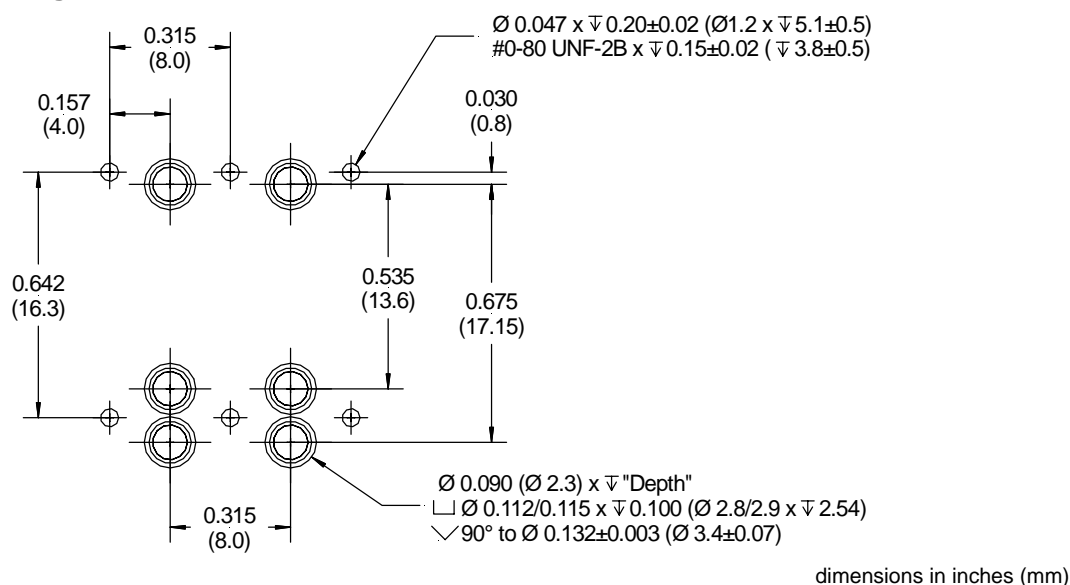
Side view



Bottom view



Manifold mount diagram





ORDERING INFORMATION

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

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

- 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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