



TM Series

High flow proportional solenoid valve

FEATURES

- 2-way normally closed valve
- Capable of 240 slpm flow and pressures up to 60 psig (4 bar)
- Face seal manifold mount, manifold available with 1/8 NPT ports
- Proven performance to min. 25 million life cycles
- Light weight
- Low power consumption
- RoHS compliant
- PRO services



MEDIA COMPATIBILITY

Air, argon, carbon dioxide, heliox, hydrogen, nitrogen, oxygen & others

ELECTRICAL

Power (at 68 °F / 20 °C)	max. 2 W
Voltage	5, 12, or 24 V _{DC}

WETTED MATERIALS

Body:

36000 series brass

Stem base:

430 FR stainless steel, 36000 series brass

Others:

Fluorocarbon, 430 FR stainless steel, 300 series stainless steel

PHYSICAL PROPERTIES

Operating environment	5 to 55 °C
Storage temperature	-40 to 70 °C
Porting	Manifold mount, 1/8 NPT manifold (optional)
Weight	70 g (0.153 lbs)
Filtration (customer supplied)	40 µm
Oxygen clean	



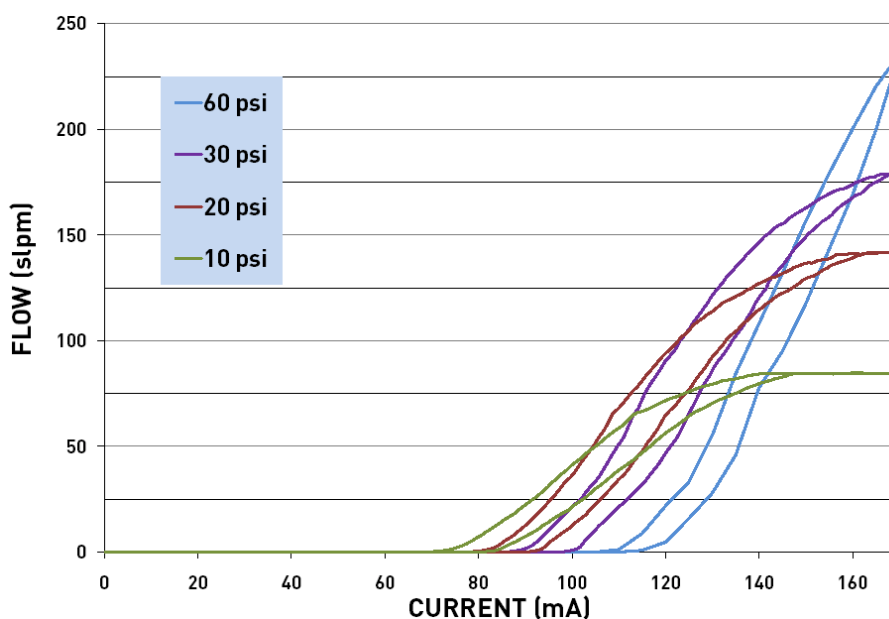
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PERFORMANCE CHARACTERISTICS

Part no.	Pressure		Orifice size	Leak rate ¹	
	Operating	Proof		Internal	External
TM...	5...60 psig	160 psig	0.116" (2.95 mm)	<5 sccm air at 60 psig	<0.5 sccm air at 60 psig

FLOW CURVES (typical air flow at 20 °C)²



Notes:

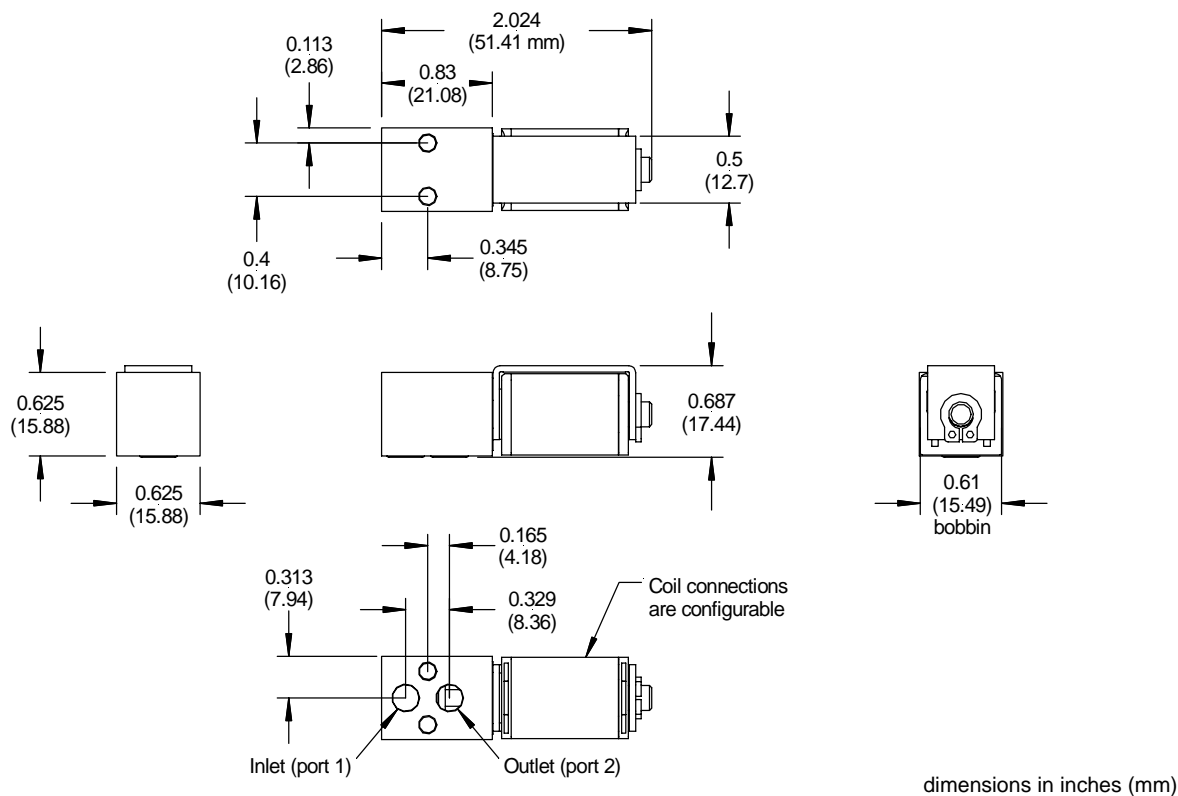
1. sccm denotes Standard Cubic Centimeters per Minute. It is a unit for the flow rate at standard conditions of temperature and pressure. 1000 sccm = 1 slpm.
2. slpm denotes Standard Liters per Minute. It is a unit for the flow rate at standard conditions of temperature and pressure. 1 slpm = 1000 sccm.



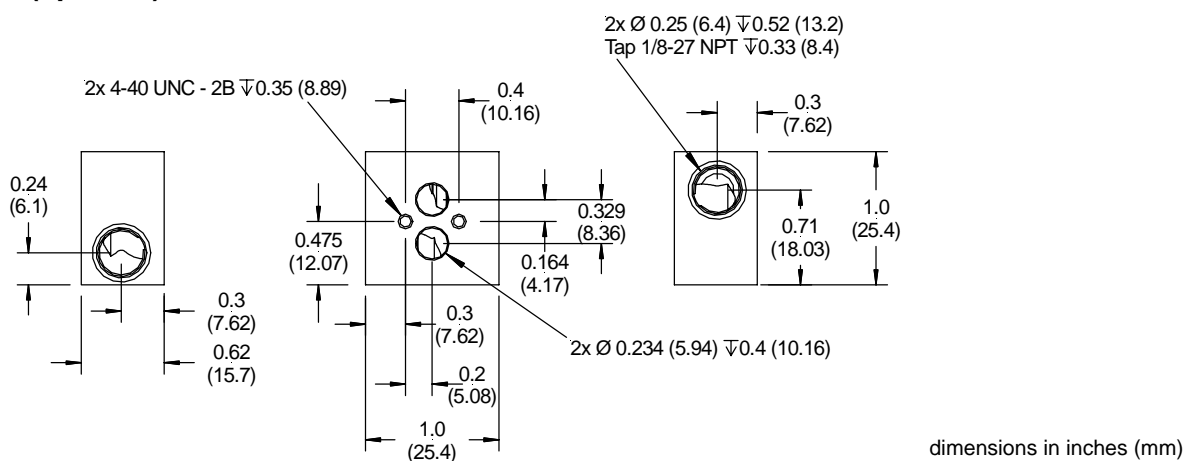
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OUTLINE DRAWING



Manifold (optional)





Series		Pressure		Function		Orifice		Elastomer		Coil selection		Electrical interface		Pneumatic interface	
Options	TM	P060	60 psi	C	NC	116	0.116 inch	V	Viton (FKM)	050	5 V _{DC}	F	wire leads, 18"	0	Manifold mount
										120	12 V _{DC}				
											240	24 V _{DC}			
Example:	TM	P060		C		116		V		120		F		0	

Accessories (please order separately using the following order numbers)

Order No.	Description
191-000214-002 (<i>free of charge</i>)	Mounting screws (<i>two per valve</i>)
190-007057-001 (<i>free of charge</i>)	Manifold mount O-ring, FKM
890-009034-001 (<i>extra charge</i>)	Single station manifold, 1/8 NPT

- 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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