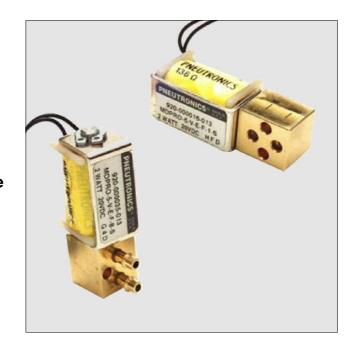
### **FEATURES**

- · 2-way normally closed
- · Offers automated calibration
- Provides repeatability across its operating range
- Offers a superior combination of value and performance
- · Rated for 10 million life cycles



#### **MEDIA COMPATIBILITY**

Air, argon, helium, hydrogen, methane, nitrogen, oxygen & others

oxygen & otners

**ELECTRICAL** 

Power max. 2 W

Voltage max. 5.5, 8, 11.5, 13.5, 20 or 29 V<sub>DC</sub>

### PHYSICAL PROPERTIES

Filtration (recommended)

Operating environment 0 to 60 °C

Storage temperature -40 to 70 °C

Length 45.3 mm (1.785 in)

Width 16.5 mm (0.625 in)

Height 17 mm (0.67 in)

Porting 1/8" barbs;

manifold mount with 43 µm screen

43 µm

Weight 63 g (2.2 oz)

Internal volume 0.508 cm³ (0.031 in³)

Lubrication None required

Oxygen clean Available on special request

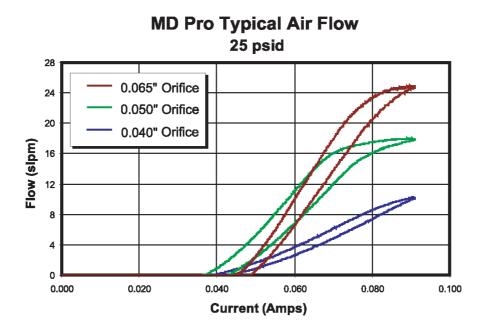
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# PERFORMANCE CHARACTERISTICS

Part no.	Pressure	Vacuum	Orifice sizes	Leak rate <sup>1</sup>	Response	
MDPRO4	075 psid		0.040" (1.02 mm)	<0.22 acom	<30 msec cycling	
MDPRO5	0100 psid	027 "Hg (013 psi)	0.050" (1.27 mm)	≤0.22 sccm of air		
MDPRO6	050 psid	, ,	0.065" (1.65 mm)	(bubble tight)		

## FLOW CURVE<sup>2</sup>



#### Notes:

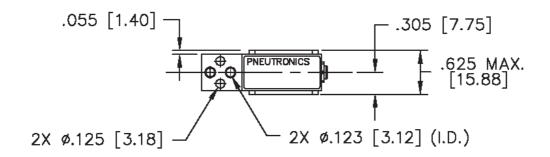
- sccm denotes Standard Cubic Centimeters per Minute. It is a unit for the flow rate at standard conditions of temperature and pressure. 1000 sccm = 1 slpm.
- slpm denotes Standard Liters per Minute. It is a unit for the flow rate at standard conditions of temperature and pressure. 1 slpm = 1000 sccm.

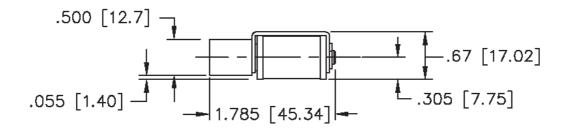
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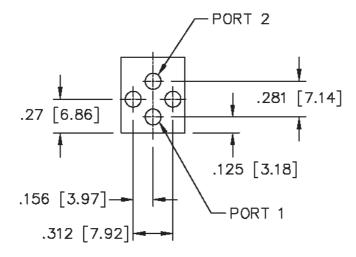
## **OUTLINE DRAWING**

#### **Basic valve dimensions**





## Port and mounting hole diagrams

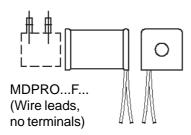


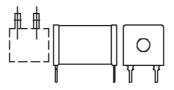
dimensions in inches (mm)

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#### **ELECTRICAL INTERFACE OPTIONS**





MDPRO...P... (PC mount, 4 pins)

### PNEUMATIC INTERFACE OPTIONS



MDPRO...1... (No barbs, face seal to manifold with screeen)



MDPRO...8... (0.125" barbs, 1/8" I.D. tubing, 1/4" O.D. max)

#### ORDERING INFORMATION

	Series	Model no.				Coil selection				Electrical		Pneumatic				
		s	Max. pressure	Orifice size	Elastomer		Max. voltage*	Resis- tance**	Current***	interface		interface		Cleaning		
Options	MDPRO	4:	75 psid	0.040" (1.016 mm)	V:	FKM	A:	5.5 V <sub>DC</sub>	11 Ω	0.304 A	F:	wire leads, 18"	1:	manifold mount with	S:	standard cleaning
		5:	100 psid	0.050" (1.270 mm)			B:	8 V <sub>DC</sub>	23 Ω	0.212 A				screens*		
		6:	50 psid	0.065" (1.651 mm)			C:	11.5 V <sub>DC</sub>	47 Ω	0.152 A	P:	PC board mount	8:	1/8" barbs	0:	oxygen service*
							D:	13.5 V <sub>DC</sub>	68 Ω	0.125 A						
							E:	20 V <sub>DC</sub>	136 Ω	0.091 A						
							F:	29 V <sub>DC</sub>	274 Ω	0.066 A						
							* max. voltage for continuous full flow, ambient temp. 55°C ** coil resistance for room temp. *** input current for full flow				* 43 µm screen (port 2)		* this option will affect price; contact Sensortechnics for details			
Example:	MDPRO	4			٧		Α				F		8		S	

Note: Not all combinations might be available.

Please contact your nearest Sensortechnics sales representative for further information.

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