### **FEATURES**

- · 2-way normally closed
- Offers operating pressure up to 150 psig and a range of orifice sizes
- Satisfies a 0.2 sccm leakage specification of He for 100 million life cycles and offers high repeatability
- Provides computer-automated calibrations and full calibration traceability
- Uses either DC current or pulse width modulation with closed loop feedback to deliver optimal system performance
- Maintains ideal flow through thermal compensation
- Oxygen and analytically clean



### **MEDIA COMPATIBILITY**

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

## **ELECTRICAL**

Power max. 2 W

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

### PHYSICAL PROPERTIES

Operating environment 0 to 55 °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 Barbs or 10-32 UNF female;

manifold mount with screens

Weight 63 g (2.2 oz)

Internal volume 0.508 cm<sup>3</sup> (0.031 in<sup>3</sup>)

Filtration (recommended)

VSONC1..., VSONC2... 17  $\mu$ m all others 40  $\mu$ m

Lubrication None required

VSO is a registered trademark of Parker Hannifin Corporation.

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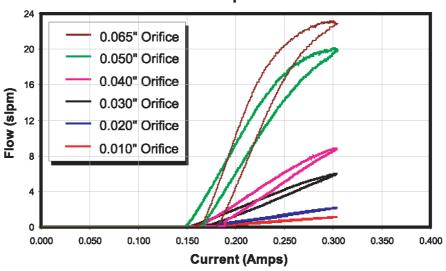


# PERFORMANCE CHARACTERISTICS

Part no.	Pressure	Vacuum	Orifice sizes	Leak rate <sup>1</sup>	Response		
VSONC1	0150 psid		0.010" (0.245 mm)				
VSONC2	0150 psid	027 "Hg (013 psi)	0.020" (0.510 mm)				
VSONC3	0150 psid		0.030" (0.762 mm)	≤0.2 sccm	<30 msec cycling (2 W)		
VSONC4	075 psid		0.040" (1.016 mm)	of helium (bubble tight)			
VSONC5	0100 psid		0.050" (1.270 mm)				
VSONC6	050 psid		0.065" (1.651 mm)				

# FLOW CURVE<sup>2</sup>

# VSO Typical Air Flow 25 psid



#### Notes:

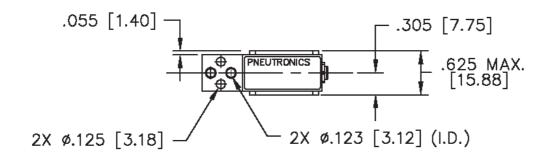
- sccm denotes Standard Cubic Centimeters per Minute. It is a unit for the flow rate at standard conditions of temperature and pressure. 1000 sccm = 1 slpm.
- <sup>2</sup> slpm denotes Standard Liters per Minute. It is a unit for the flow rate at standard conditions of temperature and pressure. 1 slpm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

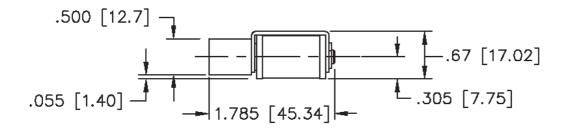
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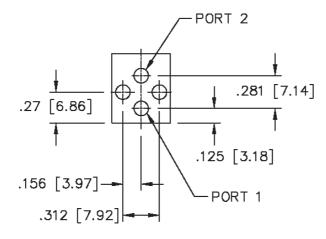
# **OUTLINE DRAWING**

# **Basic valve dimensions**





# Port and mounting hole diagrams

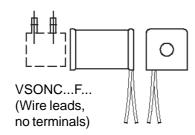


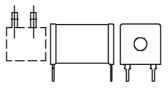
dimensions in inches (mm)

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# **ELECTRICAL INTERFACE OPTIONS**





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

# **PNEUMATIC INTERFACE OPTIONS**



VSONC...0... (No barbs, face seal to manifold)



VSONC...1... (No barbs, face seal to manifold with screen)



VSONC...5... (10-32 UNF threaded female)



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

# **ORDERING INFORMATION**

		Model no.			Body				Coil selection			Electrical		Pneumatic			
	Standard		Max. pressure	Orifice	Series	series		Elastomer			Max. voltage*	Resis- tance**	Current***	1		interface*	
Options	VSONC	1:	150 psid	0.010" (0.245 mm)	S	11:	Series 11	V:	FKM/ brass	A:	5.5 V <sub>DC</sub>	11 Ω	0.304 A	F:	wire leads, 18"	0:	manifold mount
		2:	150 psid	0.020" (0.510 mm)		25:	Series 25*	C:	FFKM*/ brass	B:	8 V <sub>DC</sub>	23 Ω	0.212 A	P:	PC board mount,	1:	manifold mount with
		3:	150 psid	0.030" (0.762 mm)				l:	FKM/ stainless	C:	11.5 V <sub>DC</sub>	47 Ω	0.152 A		4 PC pins		screens**
		4:	75 psid	0.040" (1.016 mm)					steel	D:	13.5 V <sub>DC</sub>	68 Ω	0.125 A			5:	10-32 UNF threaded
		5:	100 psid	0.050" (1.270 mm)				H:	FFKM*/ stainless	E:	20 V <sub>DC</sub>	136 Ω	0.091 A				female (Series 25)
		6:	50 psid	0.065" (1.651 mm)					steel	F:	29 V <sub>DC</sub>	274 Ω	0.066 A			8:	1/8" barbs
						nick	lable in el- plated ss only	* this optios will affect price; contact Sensortechnics for details		* max. voltage for continuous full flow, ambient temp. 55°C ** coil resistance for room temp. *** input current for full flow					* Series 11 only except with option 5 * * this option will affect price		
Example	: VSONC	1			s	11		٧		Α				F		8	

Note: Not all combinations might be available.

Please contact your nearest Sensortechnics sales representative for further information.

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