FEATURES

- 2-way Normally Open exhaust valve in a small package size
- Works well in miniature applications such as in Non-Invasive Blood Pressure (NIBP) devices
- Provides small size and low cost
- · Offers low holding voltage



MEDIA COMPATIBILITY

Non-corrosive gases

WETTED MATERIALS

Elastomer: Silicon; nickel-plated steel

Frame: SPCC (treatment: MFZn2-c)

All other: Polybutylene Terephthalate (PBT); 304 series stainless steel

ELECTRICAL

Power	0.5 W or less
Voltage	3, 6 or 12 $\rm V_{\rm _{DC}}$

PHYSICAL PROPERTIES

	Operating environment	0 to 45 °C
	Storage temperature	-25 to 70 °C
	Length	25.6 mm (1.01 in)
	Width	10 mm (0.394 in)
	Height	12 mm (0.472 in)
	Porting suitable for	1 port, 0.118 in (3 mm) O.D., 0.078 in I.D., Urethane tubing
	Weight	7.7 g (0.27 oz)
5	Internal volume	0.026 cm ³
;	Filtration	None required
	Lubrication	None required

PERFORMANCE CHARACTERISTICS

Part no.	Pressure	Vacuum	Orifice sizes/ Equivalent C _v ¹	Leak rate ²	Response
PND-05D	- 06 psig holding	027 "Hg (013 psi)	0.030" (0.510 mm)/ 0.017 C _v	0.016 sccm	<100 msec cycling
PND-05A*			0.050" (1.270 mm)/ 0.035 C _v	(bubble tight)	

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. If several valves with the same nominal diameter are compared, the valve with the highest C_v value has the best flow dynamics design. The equivalent european measure is the k_v value expressed in m³/h (k_v = 0.86 C_v).

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



dimensions in inches (mm)

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ORDERING INFORMATION

	Series	(rat	Watts ted power at 20 °C)	Orifice size		Voltage	
Options	PND	05:	0.5 W	D :	0.030" (0.762 mm)	3:	3 V _{dc}
				A*:	0.050" (1.270 mm)	6:	6 V _{DC}
						12:	12 V_{DC}
* Frame width and height increases to 13 x 15 mm							
Example:	PND	05		Α		12	

Note: Not all combinations might be available. Please contact your nearest Sensortechnics sales representative for further information.

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