Series 9 and 99 Pulse Valves

High-performance media resistant soleniod valves

FEATURES

- Flange mount, axial flow, 2-way normally closed valves
- Operates as fast as 2 ms (with IOTA ONE valve controller as fast as 160 µs)
- Delivers repeatable pulses and high repetition rates
- Leak-tight to 1 x 10⁻⁸ or 1 x 10⁻⁷ cm³/s/atm Helium
- Constructed of non-corrosive stainless steel



MEDIA COMPATIBILITY

Liquids and gases

WETTED MATERIALS

Body:

316L stainless steel

Poppet:

PTFE, PEEK, PCTFE or Vespel

O-ring (Series 9 only):

FFKM

Gasket (Series 99 only):

Silver-plated nickel

ELECTRICAL

Power 11.2, 12 W

Voltage 12, 20, 28 V_{DC}

Current/Resistance (Ω ±5% @ 21 °C)

 $\begin{array}{ccc} 12 \ V_{_{DC}} & & 1000 \ \text{mA/12} \ \Omega \\ 20 \ V_{_{DC}} & & 594 \ \text{mA/33} \ \Omega \\ 28 \ V_{_{DC}} & & 400 \ \text{mA/70} \ \Omega \end{array}$

PHYSICAL PROPERTIES

Operating environment 4 to 105 °C

Weight approx. 80 g

Porting 1.3" standard or Conflat compatible flange,

1/4" A-Lok or VacuSeal fittings

Internal volume various

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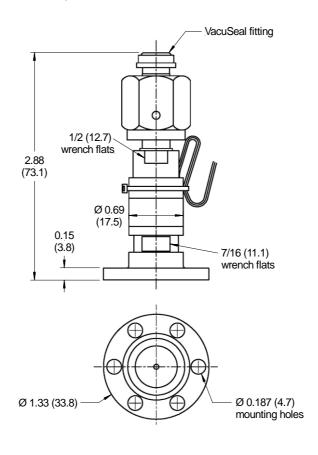
PERFORMANCE CHARACTERISTICS

Part no.	Pressure	Orifice sizes ¹	Leak rate ²
Contact Sensortechnics	Vacuum86 bar (1250 psi)	0.002" (0.05 mm)	Series 9: 1 x 10 ⁻⁷ cm ³ /s/atm Helium
		0.004" (0.10 mm)	
		0.010" (0.25 mm)	
		0.020" (0.51 mm)	Series 99: 1 x 10 ⁻⁸ cm ³ /s/atm Helium
		0.031" (0.79 mm)	
	Vacuum50 bar (750 psi)	0.039" (0.99 mm)	

- Straight orifices (no cone) available in all diameters for flange and Mini-Conflat bodies.
 Cone shaped orifices only available in 0.020" and 0.031" diameters for flange bodies.
- 2. Not rated for continuous duty at maximum temperature.

OUTLINE DRAWING

Series 99, Vacuseal, Mini-Conflat, no cone



dimensions in inches (mm)

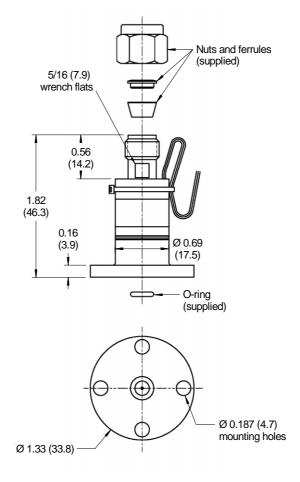
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High-performance media resistant soleniod valves

OUTLINE DRAWING (cont.)

Series 9, 1/4" A-Lok, standard flange, no cone



dimensions in inches (mm)

ORDERING INFORMATION

Please contact your nearest Sensortechnics sales office for further information.

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