FEATURES

- 2-way or 3-way, 2 position valve (NO, NC & Distributor)
- Offer a discrete valve design with a 200 million life cycle rating
- Available in manifold mounting
- Provide a range of electrical coil options, including PC mountable, spade lugs, or wire leads
- Powerful enough for a range of uses that require high flow



MEDIA COMPATIBILITY

Gases and selected liquids

WETTED MATERIALS

Body: 360 HO2 brass; 302 series stainless steel (passivated)

Stem base: 385 HO2 brass; 303 series stainless steel (passivated)

All others: FKM; EPDM; 430 FR series stainless steel (passivated); 302 series stainless steel

ELECTRICAL

Power

0.5, 1.0 or 2.0 W

Voltage

5, 12, 24 V_{DC} ± 10%

BE

0 to 70 °C Operating environment Storage temperature -40 to 70 °C Length 43.9 mm (1.73 in) Width 15.9 mm (0.625 in) Height 17 mm (0.67 in) Porting 10-32 tapped ports, 1/16, 5/64 or 1/8 in stem barbs Weight 60 g (2.1 oz) Internal volume 0.026 in³ (without fittings) Filtration (recommended) 40 µm Lubrication None required

PHYSICAL PROPERTIES

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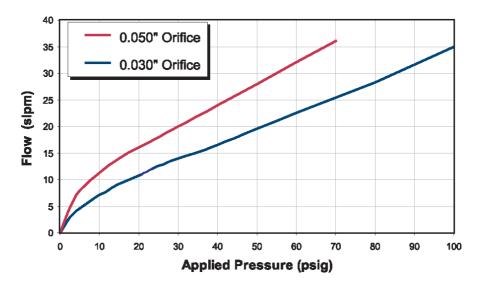
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Part no.	Pressure	Vacuum	Orifice sizes/ Equivalent C _v ¹

PERFORMANCE CHARACTERISTICS

Part no.	Pressure	Vacuum	Equivalent C _v ¹	Leak rate ²	Response	
1110	0100 psig				<30 msec cycling (2 Watt)	
1113	050 psig		0.030" (0.762 mm)/ 0.017 C _v			
1116	025 psig	027 "Hg		_≤0.016 sccm		
1112	070 psig	(013 psi)		(bubble tight)	<30 msec cycling (2 Watt)	
1115	025 psig		0.050" (1.270 mm)/ 0.035 C _v			
1118	010 psig					

FLOW CURVE (typical air flow)³



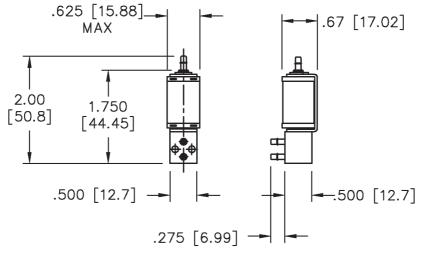
Notes:

- 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. 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. 3 1 slpm = 1000 sccm.

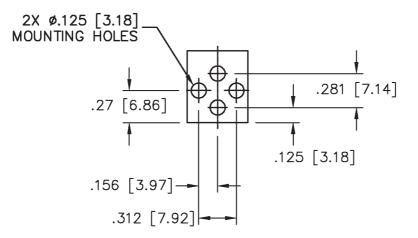
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OUTLINE DRAWING

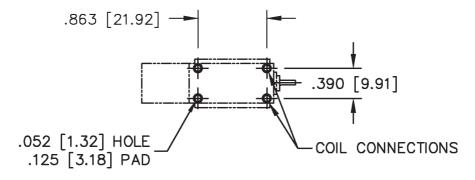
Basic dimensions



Port and mounting hole diagram



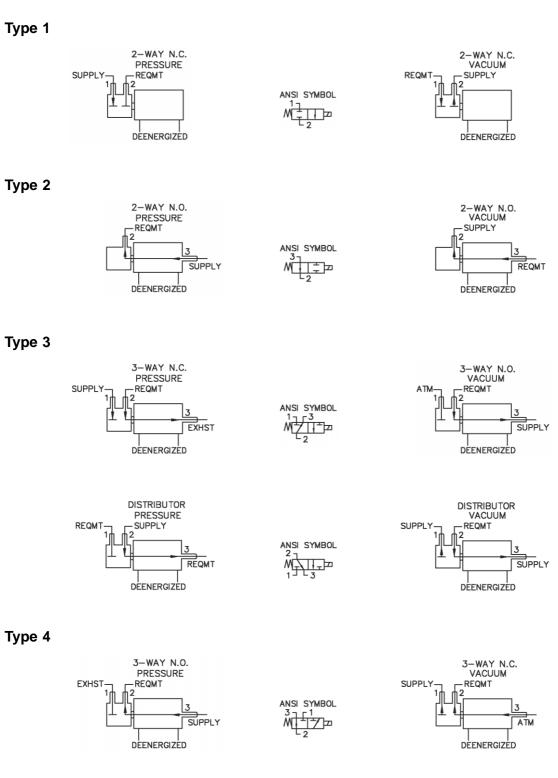
PC mounting diagram



SENSOR ECHNICS

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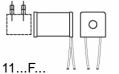
VALVE TYPE



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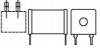
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COIL STYLES

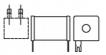


(Wire leads, no terminals)

BODY STYLES



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



11...S... (PC mount, 2 solder pads)





11...6...

(0.062" barbs,

1/16" I.D. tubing)

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

STEM STYLES



11...0

plugged)

(Type 1 top seat,



11...6 (0.062" top seat, 1/16" I.D. tubing)



11...7... (0.078" barbs, 5/64" I.D. tubing)



11 7 (0.078" top seat, 5/64" I.D. tubing)



11...8... (0.125" barbs, 1/8" I.D. tubing, 1/4" O.D. max.)



11...8 (0.125" top seat, 1/8" I.D. tubing, 1/4" O.D. max.)

ORDERING INFORMATION

	Series	Model no.					Material							Pneumatic		Pneumatic		
			Max. pressure	Orifice size	Coil wattage		Туре		Body	Plunger & seal	Voltage		Coil type		connection body		connection stem	
Options	11	10:	0100 psi	0.030" (0.762 mm)	2 W	1:	2-way NC	BV:	brass	FKM	5:	$5 V_{\rm DC}$	P:	4 PC pins	0:	no barbs	0:	type 1/ none
		12:	070 psi	0.050" (1.27 mm)	2 W	2:	2-way NO	SV:	SS*	FKM	12:	$12 V_{\rm DC}$	S:	2 solder taps	6:	1/16" barbs	6:	1/16" barbs*
		13:	050 psi	0.030" (0.762 mm)	1 W	3:	3-way NC or distributor	BE:	brass	EPDM	24:	24 V_{DC}	Q:	Quick connect	7:	5/64" barbs	7:	5/64" barbs
		15:	025 psi	0.050" (1.27 mm)	1 W	4:	3-way NO						F:	Wire leads, 18", no	8:	1/8" barbs	8:	1/8" barbs
		16:	025 psi	0.030" (0.762 mm)	0.5 W									terminals				
		18:	010 psi	0.050" (1.27 mm)	0.5 W													
						*Stainless steel										*1/16" barbs not available for 0.050" orifice		
Example:	: 11	10				3		BV			12		Ρ		7		7	

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

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SENSOR ECHNICS

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