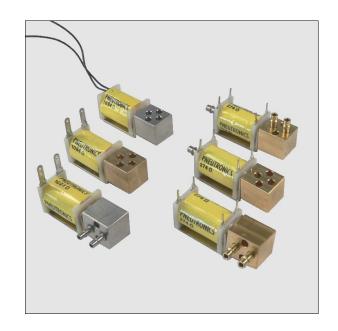
FEATURES

- 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 $V_{DC} \pm 10\%$

PHYSICAL PROPERTIES

Operating environment 0 to 70 °C

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

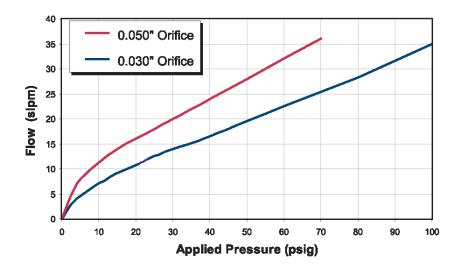
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PERFORMANCE CHARACTERISTICS

Part no.	Pressure	Vacuum	Orifice sizes/ 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:

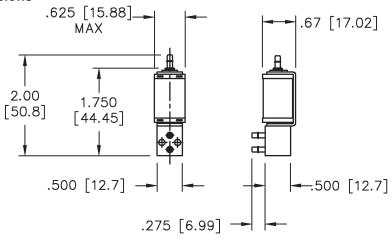
- ¹ The C_v value is the volume flow in US gallons/min under specific flow conditions and describes the relative flow capacity of a valve. If several valves with the same nominal diameter are compared, the valve with the highest C_v value has the best flow dynamics design. The equivalent european measure is the k_v value expressed in m^3/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.
- 3 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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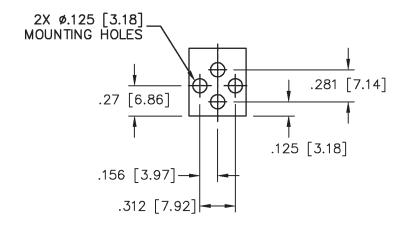


OUTLINE DRAWING

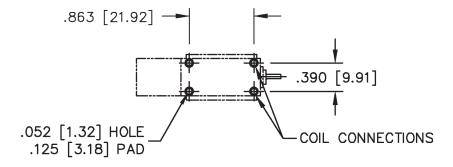
Basic dimensions



Port and mounting hole diagram



PC mounting diagram

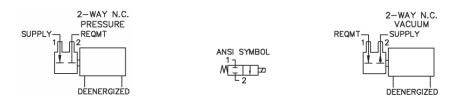


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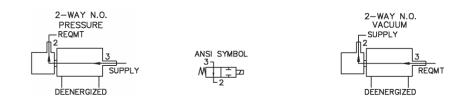


VALVE TYPE

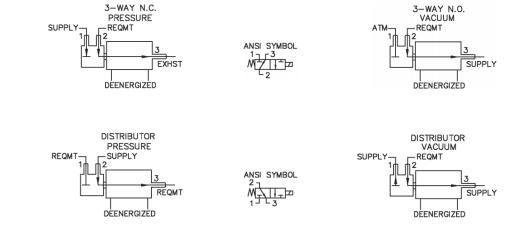
Type 1



Type 2



Type 3



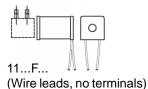
Type 4

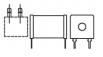


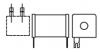
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COIL STYLES







11...P... (PC mount, 4 PC pins) 11...S... (PC mount, 2 solder pads)

BODY STYLES



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



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



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



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

STEM STYLES



11...0 (Type 1 top seat, plugged)



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



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



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	
Options	11	10:	0100 psi	0.030" (0.762 mm)	2 W	1:	2-way NC	BV:	brass	FKM	5:	5 V _{DC}	P:	4 PC pins	0:	no barbs		type 1/ none
		12:	070 psi	0.050" (1.27 mm)	2 W	2:	2-way NO	SV:	SS*	FKM	12:	12 V _{DC}	S:	2 solder taps	6:	1/16" barbs		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		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		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		в۷			12		Р		7		7	

Note: Not all combinations might be available.

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