FEATURES

- 2-way or 3-way, 2 position valve (NO, NC & Distributor)
- Meets performance characteristics for a minimum of 25 million cycles
- Cost-effective, unique PBT body
- Manifold mount design or molded barbed fittings to fit a range of needs



MEDIA COMPATIBILITY

Non-corrosive gases Operating environment 0 to 70 °C

WETTED MATERIALS

Body:

PBT (Polybutylene Terephthalate)

Stem base: 360 HO2 brass

ELECTRICAL

All others:

FKM; 430 FR series stainless steel (passivated);

302 series stainless steel; Loctite® 290

Width

PHYSICAL PROPERTIES

Storage temperature

Length

Height 17 mm (0.67 in)

Porting Barb fittings for 1/8 in I.D. tubing

or manifold mount

-40 to 70 °C

43.9 mm (1.73 in)

15.9 mm (0.625 in)

Weight 34 g (1.2 oz)

Internal volume 0.016 cm³ (nominal)

Power 0.5, 1.0 or 2.0 W Filtration (recommended) 40 µm

Voltage 5, 12, 24 $V_{pc} \pm 10\%$ Lubrication None required

Loctite® is a registered trademark of Henkel Consumer Adhesives, Inc.

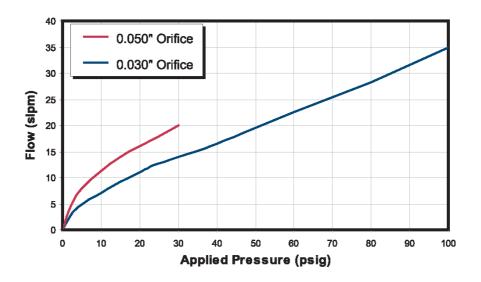
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PERFORMANCE CHARACTERISTICS

Part no.	Pressure	Vacuum	Orifice sizes/ Equivalent C _v ¹	Leak rate ²	Response
V210	0100 psig		0.030" (0.762 mm)/		<30 msec cycling (2 Watt)
V213	050 psig		0.017 C _v		
V214	030 psig	027 "Hg (013 psi)		≤0.2 sccm	<30 msec cycling (2 Watt)
V217	015 psig		0.050" (1.270 mm)/ 0.035 ${\rm C_{_{V}}}$		
V220	06 psig				

FLOW CURVES (typical air flow)³



Notes:

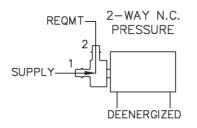
- ¹ The C_v value is the volume flow in US gallons/min under specific flow conditions and describes the relative flow capacity of a valve. If several valves with the same nominal diameter are compared, the valve with the highest C_v value has the best flow dynamics design. The equivalent european measure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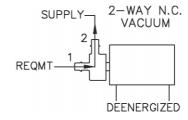


VALVE TYPE

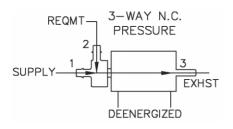
Type 1



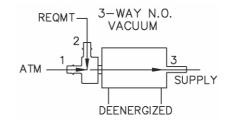


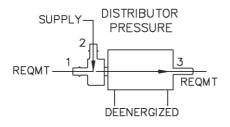


Type 3

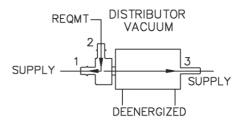




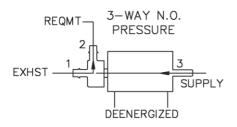




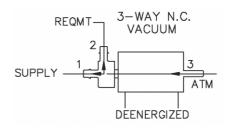




Type 4



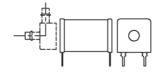




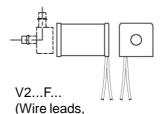
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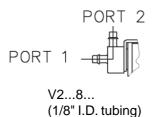
COIL STYLES



V2...P... (PC mount, 4 PC pins)



BODY STYLES





V2...0... (Manifold mount)

no terminals)

STEM BARB STYLES



V2...0 (Type 1 top seat, plugged)



V2...8 (0.125" top seat, 1/8" I.D. tubing)

ORDERING INFORMATION

		Model no.					Material							Body		Topseat		
Serie			Max. pressure	Orifice size	Coil wattage	Туре			Body	Plunger & seal	Voltage		Coil type		styles		barbs	
Options	V2	10:	0100 psi	0.030" (0.762 mm)	2 W	1:	2-way NC	PV:	PBT	FKM	5:	5 V _{DC}	P:	PC mount, 4 PC pins	0:	mani- fold	0:	none (manifold
		13:	050 psi	0.030" (0.762 mm)	1 W		3-way NC or				12:	12 V _{DC}		-				mount)
		14:	030 psi	0.050" (1.270 mm)	2 W		distributor				24:	$24 V_{DC}$	F:	Wire leads, 18"	8:	1/8" barbs		1/8" barbs
		17:	015 psi	0.050" (1.270 mm)	1 W	4:	3-way NO											
		20:	06 psi	0.050" (1.270 mm)	0.5 W													
Example:	V2	14				3		PV			12		Р		8		8	

Note: Not all combinations might be available.

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