



General Valve

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 General Valve Operation
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Series 9

2-Way and 3-Way High Performance Solenoid Valves

The Series 9 is designed to provide a life expectancy of 30 million cycles. The Series 9 valves offer outstanding potential for precision control in liquid and gas analysis. Combining high speed and high flow in a small size, this rugged valve operates with extreme repeatability. Solenoid construction is of non-corroding, passivated stainless steel throughout. The coils are rated continuous duty and are potted to exclude the environment. Magnet wire is rated at 200°C. Response time can be set as fast as 2 ms (lower flow) and pressures to 1,250 PSI can be provided. The valves are available with a variety of ports, seals and voltages.

Features:

- Ultra High Speed
- High Flow
- Requires No Pressure to Operate
- High Cycle Life
- Stainless Steel Construction



Not Actual Size

TECHNICAL INFORMATION:

Valve Specifications:

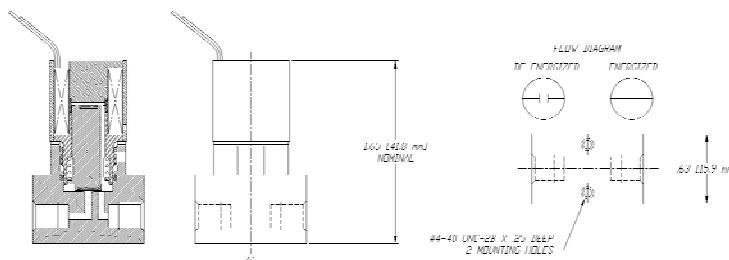
Standard Ports:	1/4-28 Threaded Ports, 1/8 NPT and A-Lok Compression Fittings
Operating Media:	Liquids and Gases
Operating Pressures:	Vacuum to 1250 psi (Orifice Dependent)
Operating Temperature:	4° to 125°C *
Standard Orifices:	.031, .062 and 0.116
Materials Contacting Media:	Stainless Steel and Teflon® Body Options: 316L Stainless Steel, Aluminum and PEEK Seal Options: Viton®, EPDM & Kalrez® Poppet Options: Teflon®, Kel-F, Vespel and PPS
Leak Rate:	1 x 10 ⁻⁷ cc/sec/atm Helium

Electrical Specifications: (continuous duty rated*)

DC (V)	Power (W)	Current (ma)	Resistance (Ω±5% @ 70°F)
12	12	1000	12
24	12	500	48
28	11.2	400	70

AC coils available upon request

Mechanical Configuration:



*Not rated for continuous duty at maximum temperature

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Series 99

2-Way and 3-Way Ultra High Vacuum Solenoid Valve

The Series 99 offers the latest in high and ultra-high vacuum valve technology. Utilizing the revolutionary Gen-Lock™ seal, the Series 99 can achieve leak rates of 1×10^{-8} or better. The Series 99 is also designed for high-speed (5 ms or less opening response time) high flow (up to .116" orifice size), and high temperature applications. This highly reliable compact valve is perfect for applications with the most critical needs.

Features:

- No Elastomers / Ultra High Vacuum / High Pressure
- Stainless Steel Construction
- Ultra High Speed
- Variety of Porting Options
- Orifice from 50 microns to 2.9 mm
- High Cycle Life



Not Actual Size

Call our Technical Hotline:
(800) 482-8258
(Outside of the United States)
Call: (973) 575-4844
or visit or website at www.pneutronics.com/gv/

Valve Specifications:

Ports:	Inlet:	1/4-28 Threaded Ports, Vacuum Fittings and A-Lok Fittings
Operating Media:		Liquids and Gases
Operating Pressures:		Vacuum to 1250 psi (86.20 BAR) (Orifice Dependent)
Operating Temperature:		-40° to 125°C *
Leak Rate:		1x10 ⁻⁸ cc/sec/atm Helium
Standard Orifices:		.031, .062 and .116 (0.8mm, 1.6mm and 2.9mm)
Materials Contacting Media:		Stainless Steel and Teflon® Body Options: 316L Stainless Steel, Aluminum and PEEK Gasket Options: Copper, PEEK and Silver-plated Nickel Poppet Options: Teflon®, Kel-F, Vespel and PPS

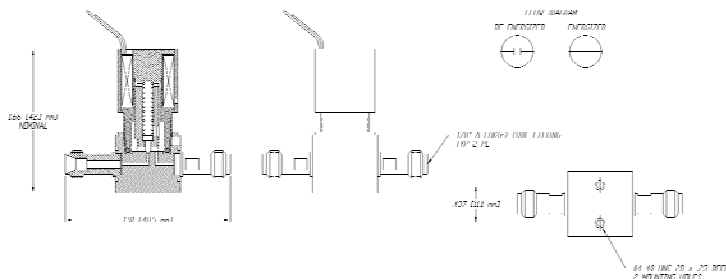
Electrical Specifications:

(continuous duty rated)

DC (V)	Power (W)	Current (ma)	Resistance ($\Omega \pm 5\%$ @ 70°F)
12	12	1000	12
24	12	500	48
28	11.2	400	70

AC coils available upon request.

Mechanical Configuration:



*Not rated for continuous duty at maximum temperature

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