

# Series 9

## High-performance media resistant solenoid valves

### FEATURES

- 2-way and 3-way configurations
- Performs at high speed (opening response time  $\leq 5$  ms)
- Leak-tight to  $1 \times 10^{-7}$  cm<sup>3</sup>/s/atm Helium
- Configurable up to 1250 psi
- Offers repeatability and consistency
- Constructed of non-corrosive stainless steel
- Available with a variety of ports, seals and voltages



### MEDIA COMPATIBILITY

Liquids and gases

### WETTED MATERIALS

#### Materials contacting media:

PTFE, stainless steel, body, seals

#### Body:

316L stainless steel

#### Seals:

FKM & Vespel, FKM

### ELECTRICAL

Power 12 W

Voltage 12, 24 V<sub>DC</sub>

Current/Resistance ( $\Omega \pm 5\%$  @ 21 °C)

|                    |                     |
|--------------------|---------------------|
| 12 V <sub>DC</sub> | 1000 mA/12 $\Omega$ |
| 24 V <sub>DC</sub> | 500 mA/48 $\Omega$  |

### PHYSICAL PROPERTIES

Operating environment 4 to 105 °C

Weight (e.g. 3-way, 1/8" NPT body) 88 g

Porting 1/4"-28 threaded ports;  
1/8" NPT (female);  
A-Lok compression fittings

Internal volume various

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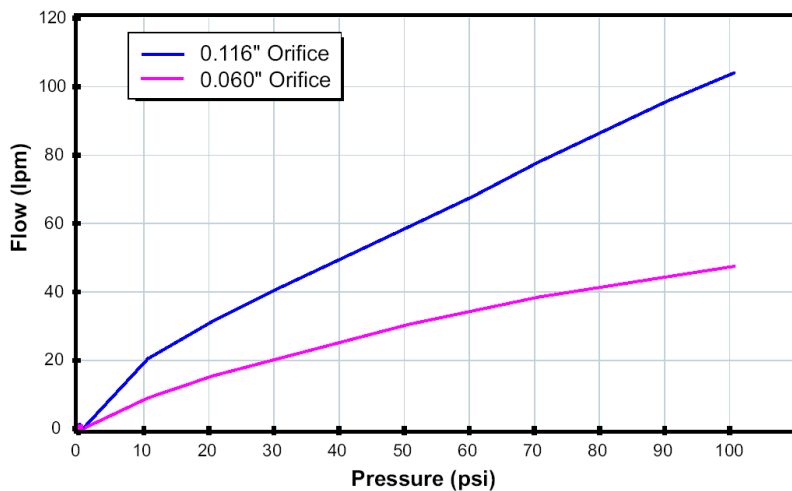
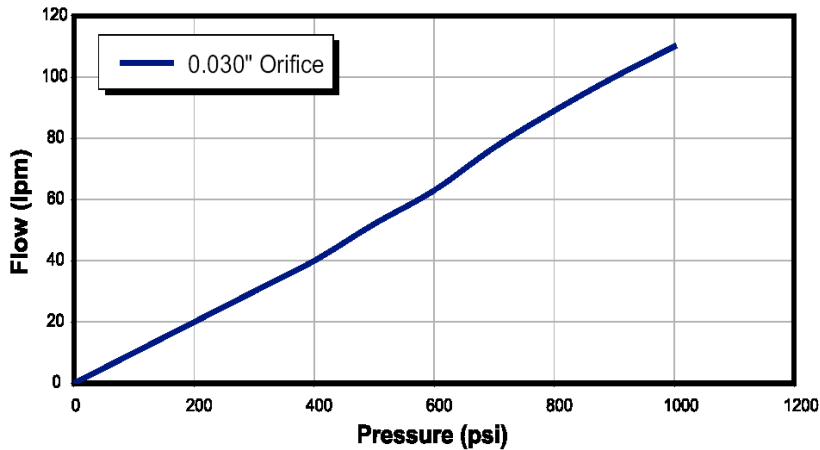
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### PERFORMANCE CHARACTERISTICS

| Part no.                 | Pressure                   | Orifice sizes    | Leak rate*   |
|--------------------------|----------------------------|------------------|--|
| See Ordering Information | Vacuum...86 bar (1250 psi) | 0.030" (0.76 mm) | 1 x 10 <sup>-7</sup> cm <sup>3</sup> /s/atm Helium |
|                          | Vacuum...17 bar (250 psi)  | 0.060" (1.52 mm) |  |
|                          | Vacuum...7 bar (100 psi)   | 0.116" (2.99 mm) |  |

\* Not rated for continuous duty at maximum temperature.

### FLOW CURVES (typical air flow)

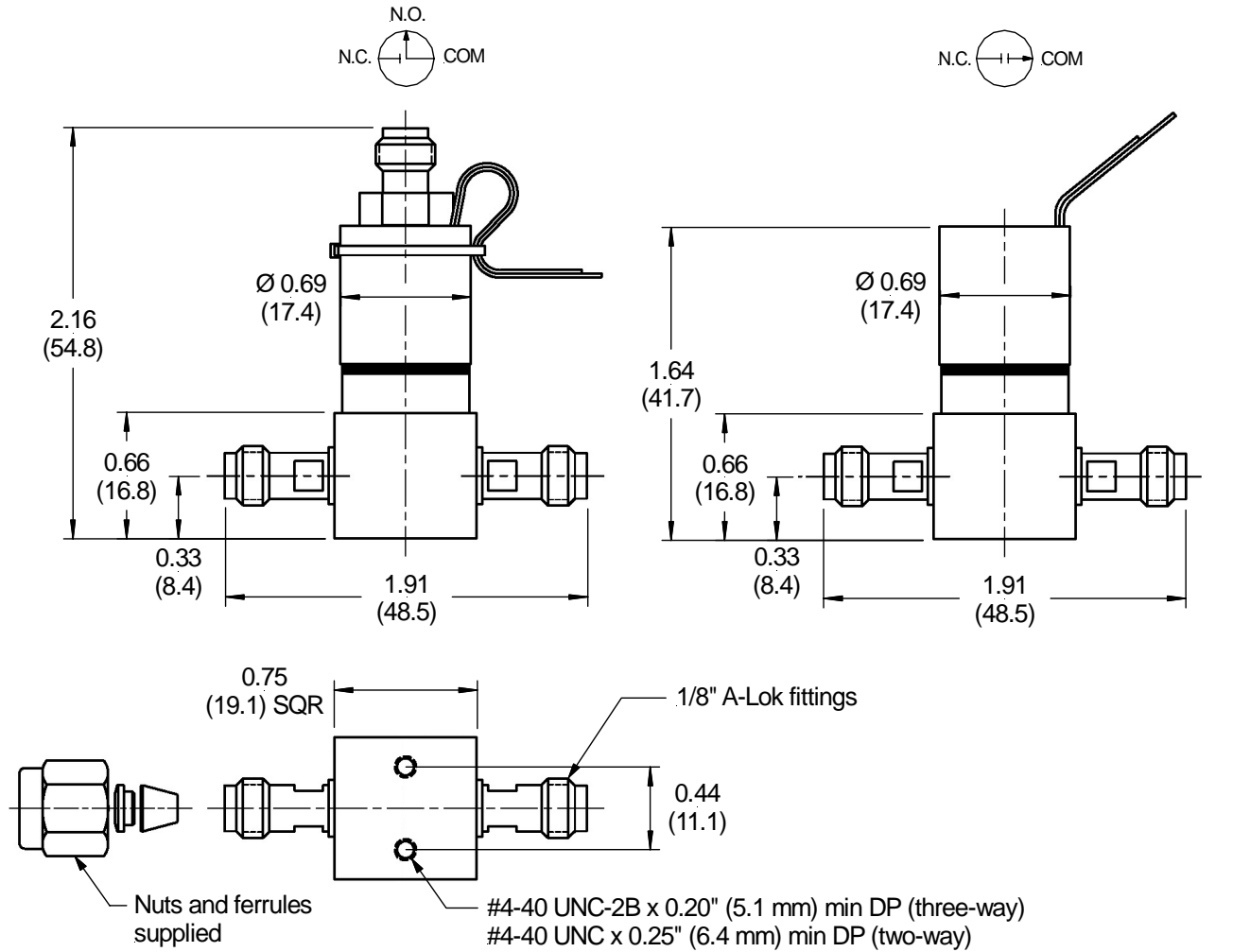


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### OUTLINE DRAWING

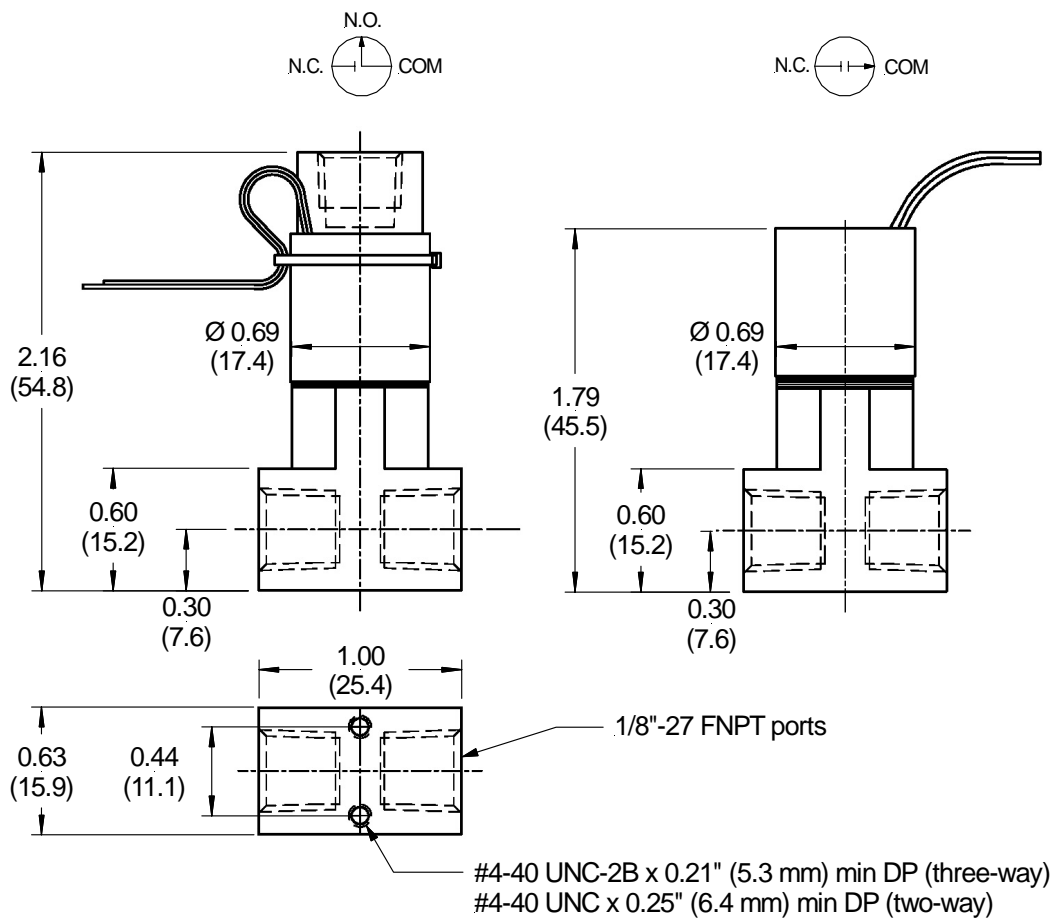
Part No. 009-0269-900 (3-way),  
009-0270-900 (2-way NC)



dimensions in inches (mm)

### OUTLINE DRAWING (cont.)

Part No. 009-0933-900 (3-way),  
009-0089-900 (2-way NC)



dimensions in inches (mm)

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### ORDERING INFORMATION

| Part No.     | Type     | Operating Pressure         | Orifice             | Voltage            | Porting     | Seals           |
|--------------|----------|----------------------------|---------------------|--------------------|-------------|-----------------|
| 009-0100-900 | 2-way NC | Vac...86 bar<br>(1250 psi) | 0.76 mm<br>(0.030") | 12 V <sub>DC</sub> | 1/16" A-Lok | Vespel &<br>FKM |
| 009-0172-900 |          |                            |                     |                    |             |                 |
| 009-0272-900 |          |                            |                     | 1/4"-28            |             |                 |
| 009-0270-900 | 3-way    | Vac...17 bar<br>(250 psi)  | 1.52 mm<br>(0.060") | 24 V <sub>DC</sub> | 1/8" A-Lok  | FKM             |
| 009-0631-900 |          |                            |                     |                    | 1/8" FNPT   |                 |
| 009-0269-900 |          |                            |                     |                    | 1/8" A-Lok  |                 |
| 091-0094-900 | 2-way NC | Vac...7 bar<br>(100 psi)   | 2.99 mm<br>(0.116") | 12 V <sub>DC</sub> | 1/8" FNPT   |                 |
| 009-0933-900 |          |                            |                     |                    |             |                 |
| 009-0089-900 | 3-way    |                            |                     | 24 V <sub>DC</sub> |             |                 |
| 009-0143-900 |          |                            |                     |                    |             |                 |
| 009-0207-900 |          |                            |                     | 12 V <sub>DC</sub> |             |                 |

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