

### FEATURES

- 2-way and 3-way configurations
- Performs at high speed (opening response time  $\leq 5$  ms)
- Leak-tight to  $1 \times 10^{-8}$  cm<sup>3</sup>/s/atm Helium
- Provides ultra-high vacuum and high pressure
- Constructed of non-corrosive stainless steel
- Offers a variety of porting options
- Offers a high cycle life



### MEDIA COMPATIBILITY

Liquids and gases

### WETTED MATERIALS

#### Materials contacting media:

PTFE, stainless steel, body, seals

#### Body:

316L stainless steel

#### Seals:

Vespel & silver-plated nickel gasket,  
FKM & silver-plated nickel gasket

### 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" body) 88 g

Porting Vacuum fittings;  
A-Lok compression fittings

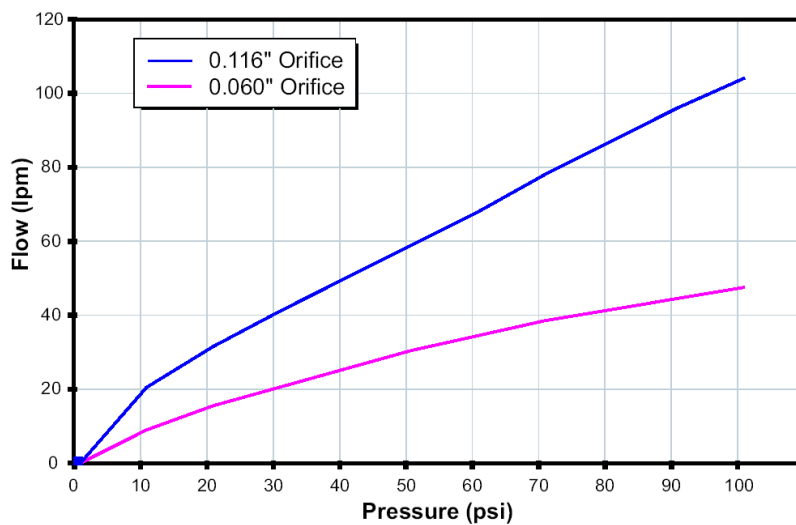
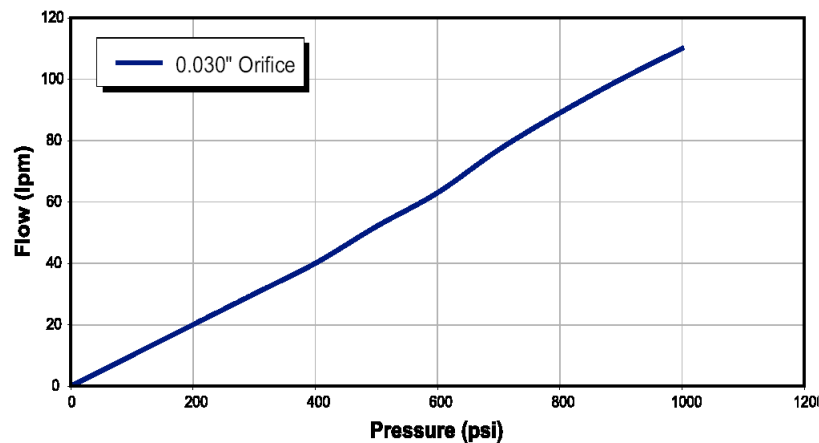
Internal volume various

### 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>-8</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)	

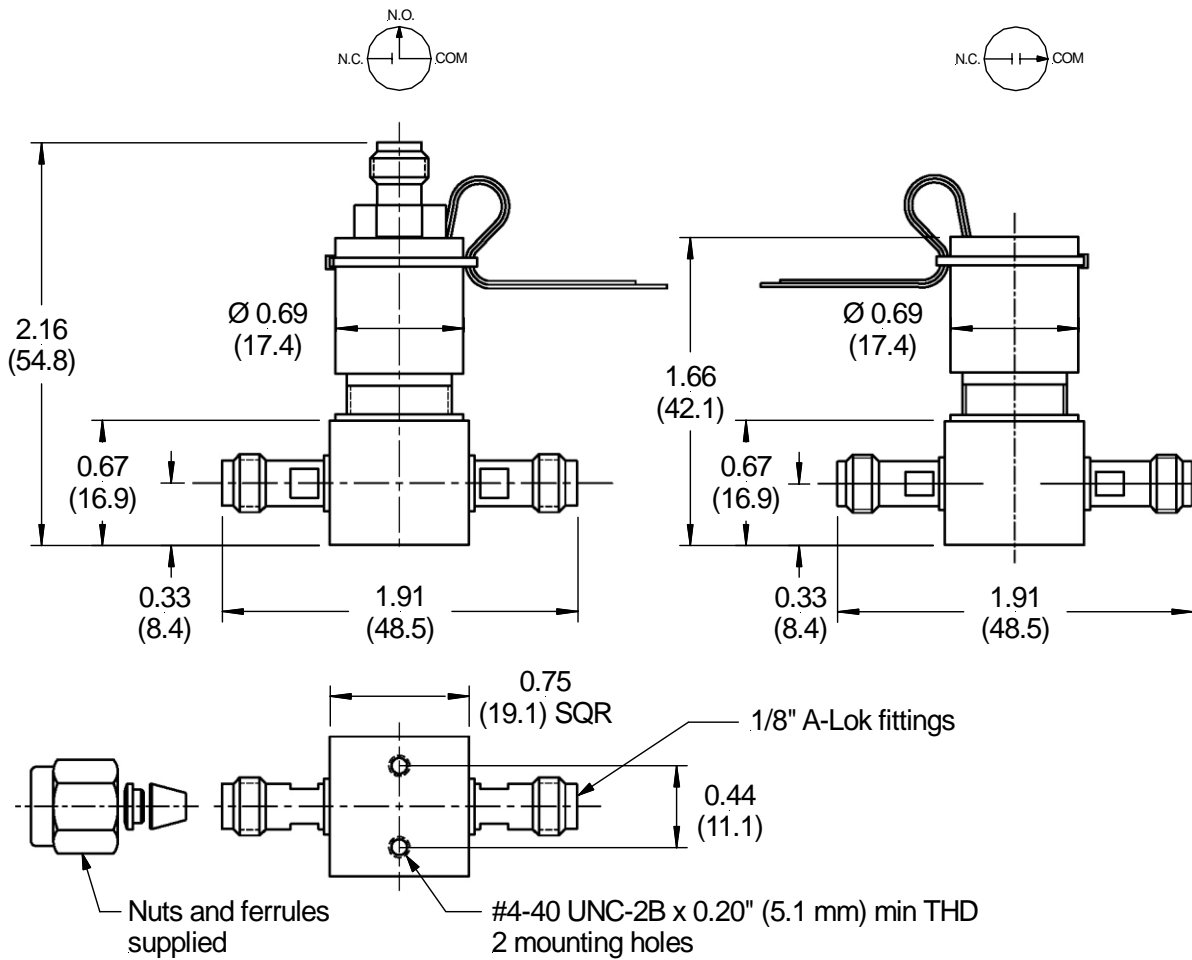
\* Not rated for continuous duty at maximum temperature.

### FLOW CURVES (typical air flow)



### OUTLINE DRAWING

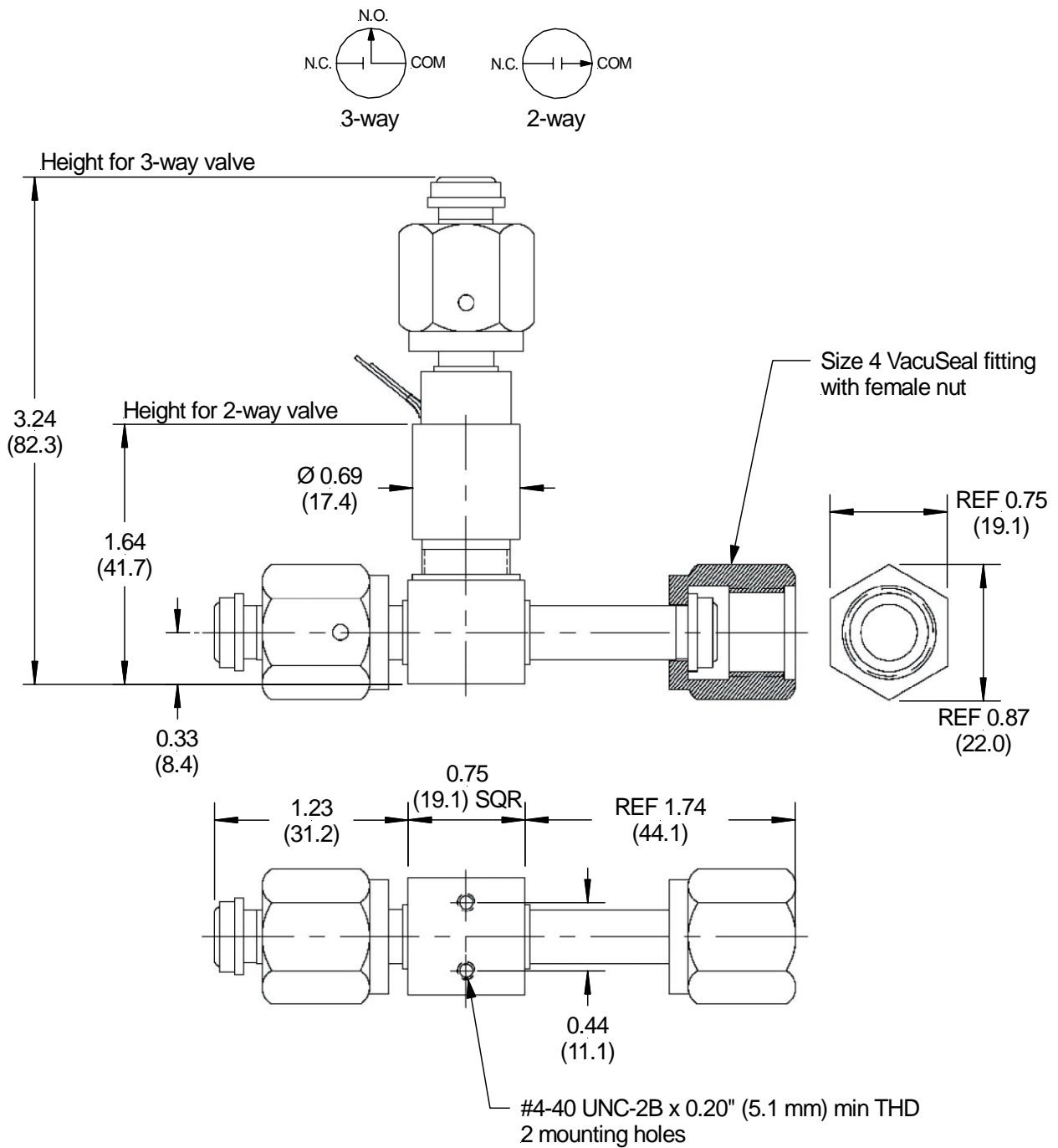
Part No. 099-0135-900 and 099-0075-900 (3-way),  
099-0080-900 (2-way NC)



dimensions in inches (mm)

### OUTLINE DRAWING (cont.)

Part No. 099-0107-900 (3-way),  
099-0167-900 (2-way NC)



dimensions in inches (mm)

# Series 99

## Ultra-high leak integrity media resistant solenoid valves

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### ORDERING INFORMATION

Part No.	Type	Operating Pressure	Orifice	Voltage	Porting	Seals
099-0051-900	2-way NC	Vac...86 bar (1250 psi)	0.76 mm (0.030")	12 V <sub>DC</sub>	1/16" A-Lok	Vespel & gasket
099-0340-900				24 V <sub>DC</sub>		
099-0080-900	3-way	Vac...7 bar (100 psi)	1.52 mm (0.060")	12 V <sub>DC</sub>	1/8" A-Lok	FKM & gasket
099-0135-900				24 V <sub>DC</sub>		
099-0075-900			2.99 mm (0.116")	24 V <sub>DC</sub>	1/4" female VacuSeal	
099-0107-900						
099-0167-900	2-way NC					

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