

Series 1

Inert isolation solenoid valves

FEATURES

- 3-way diaphragm valves
- PTFE body and PTFE-insulated lead wires (also uses borosilicate glass wetted parts)
- Offers coils rated for 100 % duty and contained in a nickel-plated steel housing
- Uses low power
- Low internal volume
- Requires no pressure to operate



MEDIA COMPATIBILITY

Liquids and gases

WETTED MATERIALS

Materials contacting media:

PTFE, borosilicate glass

Body:

PTFE

PHYSICAL PROPERTIES

Operating environment 10 to 66 °C

Weight (e.g. 3-way, 1/8" NPT body) 77 g

Porting 1/4"-28 threaded ports

Internal volume 68 µl

ELECTRICAL

Power 2.5, 4.2 W

Voltage 12, 24 V_{DC}

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

12 V _{DC}	211 mA/57 Ω
24 V _{DC}	173 mA/139 Ω

Series 1

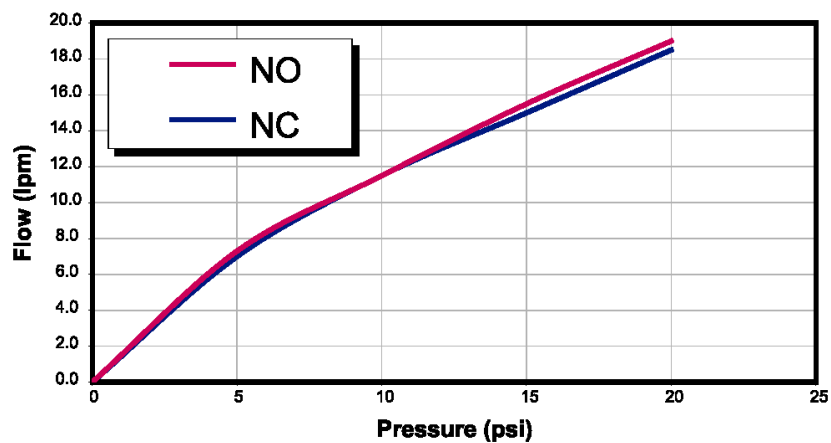
Inert isolation solenoid valves

PERFORMANCE CHARACTERISTICS

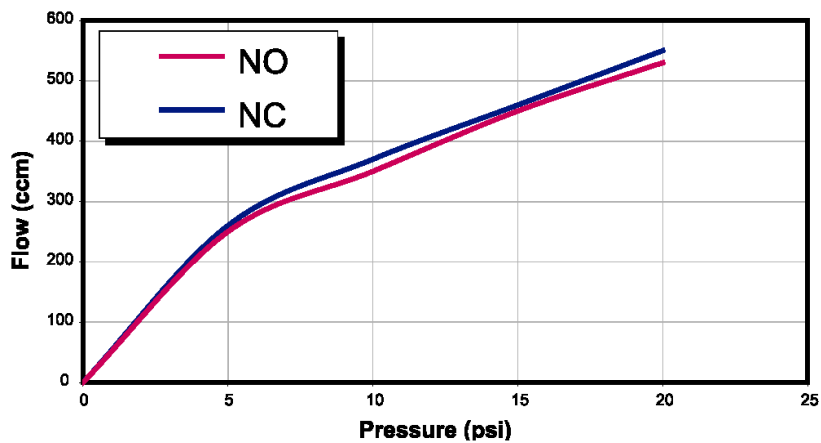
Part no.	Pressure	Orifice sizes	Leak rate	Response
See Ordering Information	Vacuum...1.4 bar (20 psi)	0.060" (1.52 mm)	Bubble tight	20 ms

FLOW CURVES

Air flow, 0.060" orifice



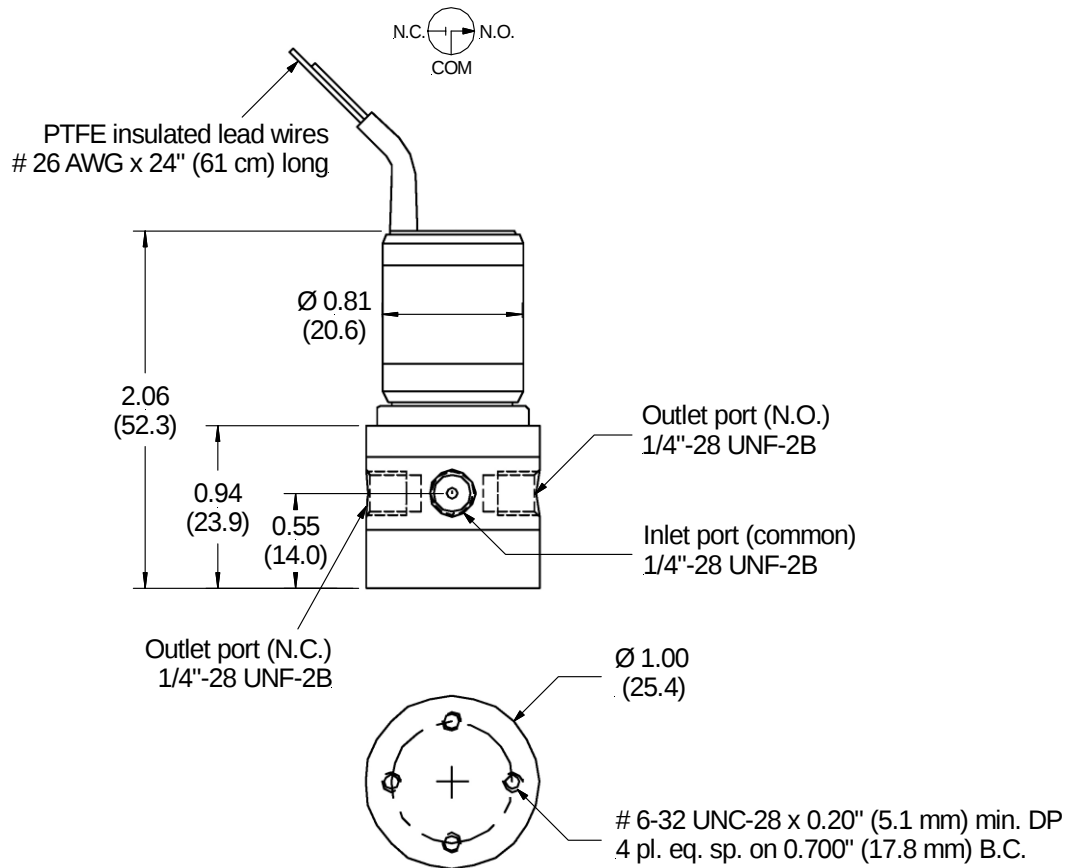
Water flow, 0.060" orifice



Series 1

Inert isolation solenoid valves

OUTLINE DRAWING



dimensions in inches (mm)

ORDERING INFORMATION

Part No.	Type	Operating Pressure	Orifice	Voltage	Porting
001-0017-900	3-way	Vac...1.4 bar (20 psi)	1.52 mm (0.060")	12 V _{DC}	1/4"-28
001-0028-900				24 V _{DC}	

First Sensor reserves the right to make changes to any products herein. First Sensor does not assume any liability arising out of the application or use of any product or circuit described herein, neither does it convey any license under its patent rights nor the rights of others.