



Send your ADS directly to a Gems Engineer!  
 Fax#: 860-747-4244 • This form may also be completed online at [gemssensors.com](http://gemssensors.com) for RFQ.

One Cowles Road  
 Plainville, CT 06062  
 Toll Free: 888.840.1230

Name	Title	Email	
Company	Phone	Fax	
Address		Address 2	
City	State	Zip	Date / /

Please describe your application:  Liquid  Pneumatic  Vacuum Service  Oxygen Service  Liquid CO2 Cryogenic  Liquid N2 Cryogenic

Immediate quantity required \_\_\_\_\_ Estimated annual quantity \_\_\_\_\_

**Valve Configuration or Function**

**DE-ENERGIZED STATE**

- 2-Way Normally Closed
- 2-Way Normally Open
- 2-Way Normally Closed (Diaphragm)
- 2-Way Normally Closed Dual Purpose
- 3-Way Normally Closed Free Vent
- 3-Way Normally Closed Line Connect
- 3-Way Normally Open
- 3-Way Multi-Purpose
- 3-Way Directional Control

**FLOW REQUIREMENTS**

C<sub>v</sub>: Body \_\_\_\_\_, Stop \_\_\_\_\_ Orifice Diameter: Body \_\_\_\_\_, Stop \_\_\_\_\_  
 Flow at the Body Orifice \_\_\_\_\_ (GPMO or SCFM) with a \_\_\_\_\_ psig at the Inlet, and \_\_\_\_\_ psig at the outlet  
 Flow at the Stop Orifice \_\_\_\_\_ (GPMO or SCFM) with a \_\_\_\_\_ psig at the Inlet, and \_\_\_\_\_ psig at the outlet

**PRESSURE**

Operating Pressure \_\_\_\_\_  
 Max. Pressure \_\_\_\_\_  
 Min. Pressure \_\_\_\_\_  
 Max. Back Pressure \_\_\_\_\_

**TEMPERATURE**

Media Temp. \_\_\_\_\_  
 Max. Media Temp. \_\_\_\_\_  
 Min. Media Temp. \_\_\_\_\_  
 Ambient Temp. \_\_\_\_\_  
 Max. Ambient Temp. \_\_\_\_\_  
 Min Ambient Temp. \_\_\_\_\_

MEDIA(S) \_\_\_\_\_

**BODY MATERIAL**

- Brass
- Stainless Steel
- Aluminum
- Polypropylene
- Other \_\_\_\_\_

**PLUNGER SEAL MATERIAL**

- Nitrile
- Viton®
- Ethylene Propylene
- Neoprene
- Silicone
- Perfluoroelastomer
- Other \_\_\_\_\_

**O-RING MATERIAL**

- Nitrile
- Viton®
- Ethylene Propylene
- Neoprene
- Silicone
- Perfluoroelastomer
- Other \_\_\_\_\_

**ELECTRICAL REQUIREMENTS**

- AC  DC
- Max. Voltage \_\_\_\_\_
- Min. Voltage \_\_\_\_\_

Operating Voltage \_\_\_\_\_, ( \_\_\_\_\_ Hz)  
 Continuous Duty Max. Time ON \_\_\_\_\_  
 Intermittent Duty Min. Time OFF \_\_\_\_\_

Max. Wattage \_\_\_\_\_  
 Max. Cycle Rate \_\_\_\_\_  
 Life Cycle Expectancy \_\_\_\_\_

**COIL REQUIREMENTS**

- Class B
- Class F
- Class H
- Tape Wound
- Encapsulated
- Molded
- Lead Wire (Specify Length If required) \_\_\_\_\_)
- 3/16" Spades
- 1/4" Spades
- 0.110" Spades
- 18 mm DIN
- 11 mm DIN
- 9.4 mm DIN

- Rectified
- Arc Suppression Diode
- Special Connectors  
(Please Specify) \_\_\_\_\_

**HOUSE STYLE**

- Grommet
- Conduit, 1/2-14 NPS
- Grommet with Bracket
- Conduit with Bracket
- Other \_\_\_\_\_

**BODY CONFIGURATION**

- |  |  |   |  |  |  |
|--|--|---|--|--|--|
| <input type="checkbox"/> Single Valve Body       | <input type="checkbox"/> Body Port<br>1/8" NPT | <input type="checkbox"/> Stop Port (If Different)<br>1/8" NPT | <input type="checkbox"/> Body Port Orientation<br>180° | <input type="checkbox"/> Female Bottom Port<br>Specify Port Size _____ | <input type="checkbox"/> Male Bottom Porting<br>1/8" NPT (Brass) |
| <input type="checkbox"/> Manifold Mount          | <input type="checkbox"/> 1/4" NPT              | <input type="checkbox"/> 1/4" NPT                             | <input type="checkbox"/> 1/4" NPT                      | <input type="checkbox"/> 90° Right                                     | <input type="checkbox"/> Pressure Over-Seat                      |
| <input type="checkbox"/> Operator Only (No Body) | <input type="checkbox"/> 3/8" NPT              | <input type="checkbox"/> #10-32                               | <input type="checkbox"/> 3/8" NPT                      | <input type="checkbox"/> 90° Left                                      | <input type="checkbox"/> Pressure Under Seat                     |
| <input type="checkbox"/> Metering                | <input type="checkbox"/> #10-32                | <input type="checkbox"/> #10-32                               |  |  |  |
|  | <input type="checkbox"/> 1/8" BSPT             | <input type="checkbox"/> 1/8" BSPT                            |  |  |  |
|  | <input type="checkbox"/> M5 x 0.8              | <input type="checkbox"/> M5 x 0.8                             |  |  |  |

**What will be the Valves Environment?**

Will the valve be exposed to moisture?  Yes  No Will the valve be exposed to external contamination?  Yes  No

Will the valve be in close proximity to a heat-generating source (e.g. Transformer, pump, motor)?  Yes  No

Will the valve be subject to vibration or shock?  No  Yes If yes: Vibration \_\_\_\_\_ CPS at \_\_\_\_\_ Gs, Shock \_\_\_\_\_ GS duration for \_\_\_\_\_ ms.