

LFY2 INERT SOLENOID VALVE

The Lee Company's new LFY2 Inert Solenoid Valve is the latest addition to our field proven Y-Valve product line. This 3-way inert, zero-dead volume solenoid valve features a unique "Y" internal flow design that reduces the internal volume to 12 microliters (total). The design also provides a clean flushable flow path, reducing or eliminating carry over between fluids while protecting fragile samples. Balanced actuation virtually eliminates pumping effects, which is common to diaphragm valves.

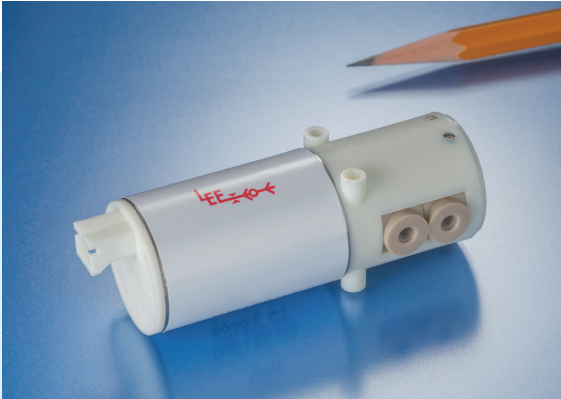
The electrical interface of the new LFY2 Inert Solenoid Valve provides secondary connector retention and is compatible with standard AMP® connectors. The Lee Company offers compatible lead wire sets (includes a connector with bare leads) in two different lengths:

- 6" lead wire set: LSWX0504300A
- 12" lead wire set: LSWX0506700A

The new LFY2 valve is available in 12 and 24 vdc operating voltages, and with either 062 MINSTAC or standard 1/4-28 Flat Bottom fluid connections.

Custom configurations, including wetted materials and porting configurations are available for OEM applications. Contact your local Lee Sales Engineer for additional technical assistance and application information.

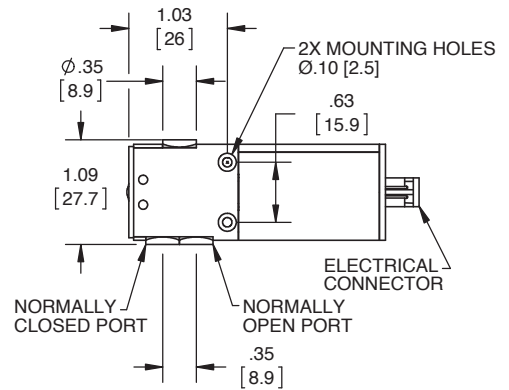
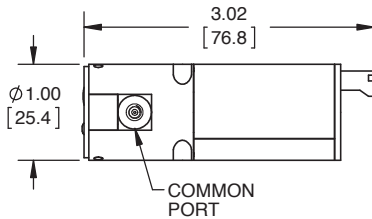
- Zero Dead Volume
- Low Internal Volume: 12 µL total
- Less Than 30 ms Response Time
- Small Footprint
- Minimal Pumping
- Low Power: 2 Watts
- End Cap With Electrical Connector Retention
- Fluid Connections: 062 MINSTAC and 1/4-28 Flat Bottom Boss
- Cycle Life: 5 Million Cycles



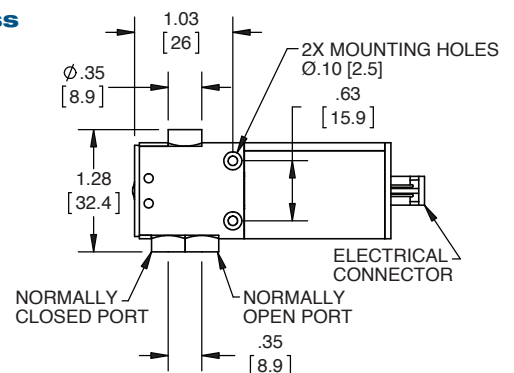
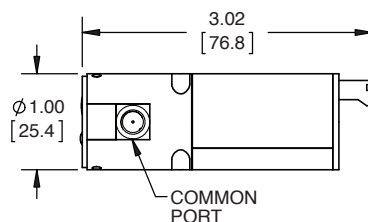
- Wetted Materials: PEEK/FKM
- 3800 Lohms (CV=0.005), 109 ml/min water @ 30psid

PART NUMBER	VOLTAGE (vdc)	CONNECTION
LFYX0503000B	12	062 MINSTAC
LFYX0503250B	24	062 MINSTAC
LFYX0503200B	12	1/4-28
LFYX0503150B	24	1/4-28

062 MINSTAC



1/4 - 28 Flat Bottom Boss



LFY2 INERT SOLENOID VALVE

The Lee Company's new LFY2 Inert Solenoid Valve is just one part of The Lee Company's complete line of precision fluid control products that includes miniature solenoid valves, micro dispense valves and nozzles, fixed and variable volume dispense pumps, integrated manifolds and other precision fluid handling components. The Lee Company's extensive research facilities and experienced

teams of engineers keep the company at the forefront of fluid control technology. In addition, Lee maintains an international network of sales engineers ready to assist you in solving your fluid control problems. For more information, contact a Lee Sales Engineer today, or visit www.theleeco.com.



VHS Micro Dispense Valves

- 2-way solenoid valves
- High speed – up to 1200 Hz
- Dispense volumes as small as 25 nL
- Multiple porting configurations
- Response time as fast as 0.25 ms
- Pressures to 120 psig
- Low power consumption



Atomizing and Direct Dispense Nozzles

- Removable
- Wide range of orifice sizes
- Custom sizes and mounting available
- Can be mounted directly to Lee VHS valves
- Accurate dispensing of micro-liter and nanoliter volumes



Micro Inert Valves

- 2 & 3-way chemically inert valves
- Low power consumption
- Multiple material and port options available
- 10 million cycles minimum



Fixed and Variable Volume Pumps

- Compact design, solenoid and stepper motor driven
- CV as low as 0.04%
- Dispense resolutions as low as 0.04 μ L (full step)
- Designed to be maintenance free, providing an operating life of 5 million cycles minimum



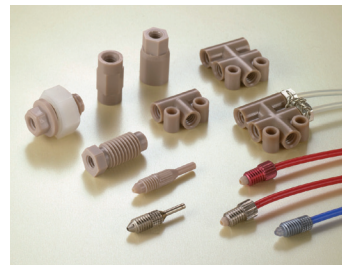
Y Valves

- 2 & 3-way chemically inert valves
- Zero dead volume
- Pressures to 30 psi
- Variety of porting options
- Standard and high flow models available



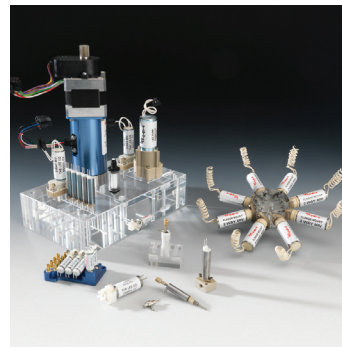
High Density (HDI) Solenoid Valves

- 3-way miniature solenoid valves
- Compact, lightweight design
- Available in plug-in, face mount & ported styles
- Operating pressures to 45 psig
- Long life – 250 million cycles
- Latching, Quiet Operation, Semi-Inert and Lo-Lohm models also available



MINSTAC Fittings

- Lee's miniature inert system of tubing and components
- Compatible with many of Lee's miniature valves, pumps and nozzles
- Small, compact size reduces overall footprint



Manifold Technology

- Designed, manufactured, and tested as a fully assembled unit
- Conventional or modular construction
- Space, size, and weight savings (optimization)
- Wide range of materials available to suit specific applications and chemistries
- Warranted as a single part number
- High reliability
- Manifolds manufactured using "ant farm" machining or laminating as needed