

LPL2 INERT SOLENOID PUMP

The Lee Company's new LPL2 Inert Solenoid Pump is the latest addition to Lee's line of LPL Series fixed volume pumps. In response to the ever increasing demands of the medical and scientific industries, this new pump was designed to offer greater design flexibility and significant cost savings.

The LPL2 pump features a revolutionary port head design that allows tubing connections and manifold mounting. This enables the designer to test the fluidic system using connections to soft 1/16" tubing, and then once the system design has been finalized, the same pump can be manifold mounted using standard O-rings.

The electrical interface of the LPL2 Inert Solenoid Pump has also been updated for greater design flexibility. The contoured end cap provides secondary connector retention and is compatible with standard AMP connectors. The Lee Company offers compatible lead wire sets in two different lengths:

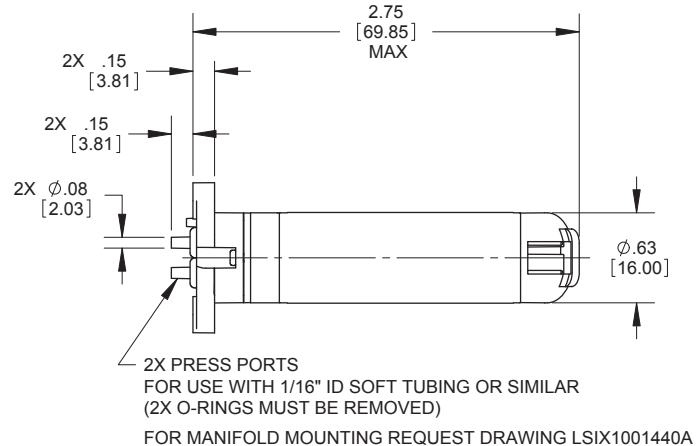
- 6" lead wire set: LSWX0504300A
- 24" lead wire set: LSWX0606700A

- Low Power Consumption: 2.5 Watts
- 12 or 24 Volt Operation
- Speed: 2 Hz
- Fluidic Interface: 1/16" Tubing or Manifold Mount (Standard O-rings)
- End Cap with Electrical Connector Retention
- Standard Dispense Volume: 50 μ L Dispense per Shot, +/- 6% (Other Volumes Available as Specials)
- Wetted Materials:
 - Housing: PPS
 - Elastomer: FKM or EPDM

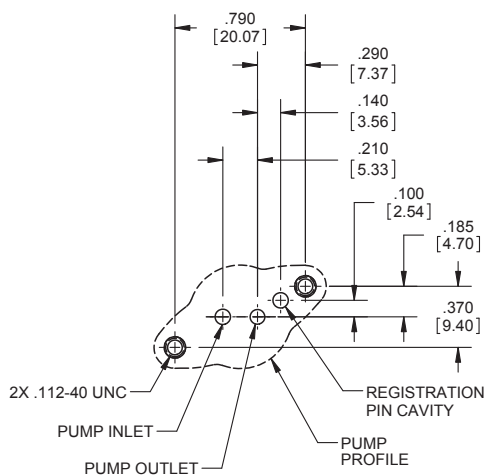


LEE PART NUMBER	VOLTAGE (vdc)	ELASTOMER
LPLA1250650L	12	FKM
LPLA2450650L	24	FKM
LPLA1251650L	12	EPDM
LPLA2451650L	24	EPDM

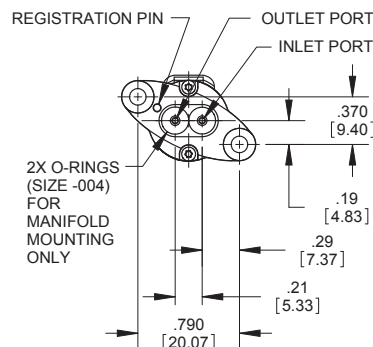
TOP VIEW



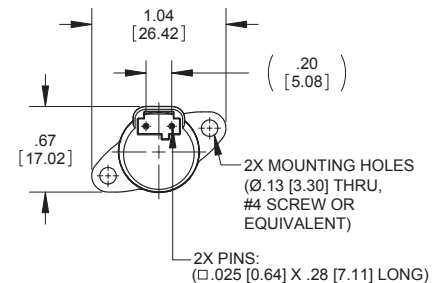
MOUNTING BOSS



PORT HEAD



END CAP



LPL2 INERT SOLENOID PUMP

The LPL2 Inert Solenoid Pump 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, 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



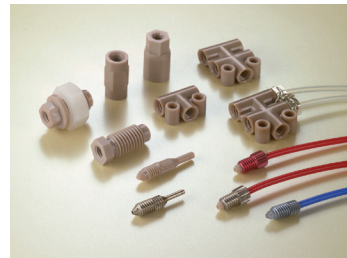
Y Valves

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



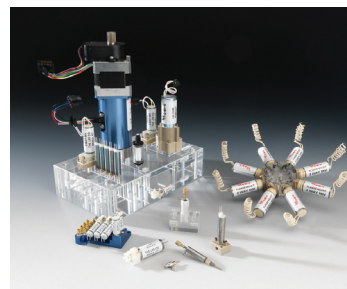
High Density (HDI) Solenoid Valves

- 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