

YOUR SPECS.
OUR EXPERTISE.
**GREAT
SOLUTIONS.**

FOR
**RESPIRATORY
CARE**
APPLICATIONS



Innovation in Miniature
LEE 
The Lee Company

RESPIRATORY DIAGNOSTICS AND THERAPEUTICS



The rising prevalence of respiratory disease has many patients relying on oxygen treatment for daily life.

Ailments such as chronic obstructive pulmonary disease (COPD) and asthma require frequent monitoring and interventional therapies, such as monitoring exhaled nitric oxide in asthma patients or delivering portable oxygen therapy to patients with COPD. Even healthy athletes can benefit from cardio pulmonary diagnostic therapies that provide metabolic feedback of their performance, allowing them to develop personalized training techniques.

As the demand increases for respiratory care devices to incorporate more functionality, instrument designers also face the challenge of making them portable, without compromising reliability and performance. Whether these devices are delivering oxygen or analyzing exhaled breath, they all require precise fluidic components to deliver reliable and consistent operation.

The Lee Company pioneered fluid flow technology and is recognized as the industry leader in developing innovative products that provide unmatched reliability and performance. We offer an extensive range of miniature solenoid valves, check valves, relief valves and precision calibrated orifices that are used throughout diagnostic and therapeutic respiratory devices.

FEATURED PRODUCTS

Control Solenoid Valves



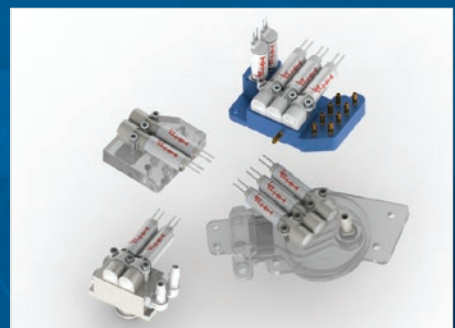
- 2-Way & 3-Way Designs
- Compact & Lightweight
- Conventional, Latching & Quiet Operation Models
- Low Power Consumption & Low Leakage
- Long Cycle Life

Check Valves, Relief Valves, Precision Orifices & Safety Screens



- Multiple Configurations & Materials
- Consistent Performance
- Valves & Calibrated Orifices 100% Tested
- Screen Micron Ratings: 4 to 500 μm
- Installation into Plastics or Metals

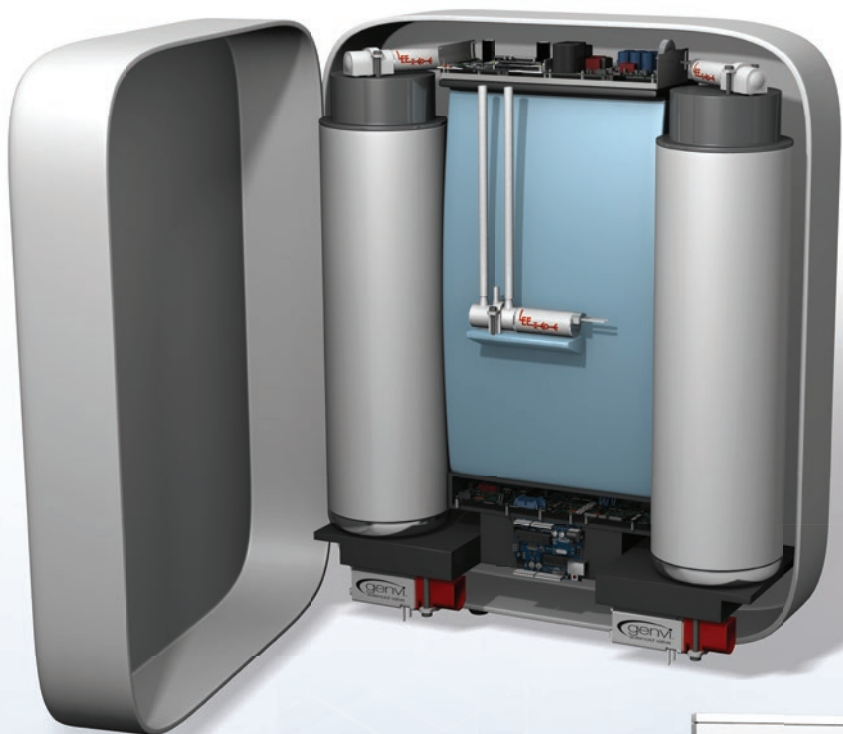
Manifold Assembly Technology



- Design Flexibility
- Wide Variety of Material Options & Techniques
- Integrated Components
- Reduced Assembly & Installation Costs
- Value Added Solution; 100% Tested

FEATURED APPLICATIONS

The Lee Company offers solutions to numerous design challenges. Highlighted below are two application examples where Lee products help designers achieve aggressive system-level goals such as extending battery life, reducing instrument size and weight, and enhancing instrument functionality.



OXYGEN CONCENTRATORS

Oxygen concentrator manufacturers are striving to make their devices portable, wearable, and as light weight as possible, without sacrificing battery life and oxygen delivery rates.

Featuring miniature size, light weight, and low power, Lee products assist in achieving these goals in the following system functions:

- Pressure Equalization
- Sieve Fill & Exhaust
- Purge
- Conserver

MECHANICAL VENTILATORS

Ventilator manufacturers are looking to integrate additional functionality into their devices, providing real-time patient feedback for more personalized care.

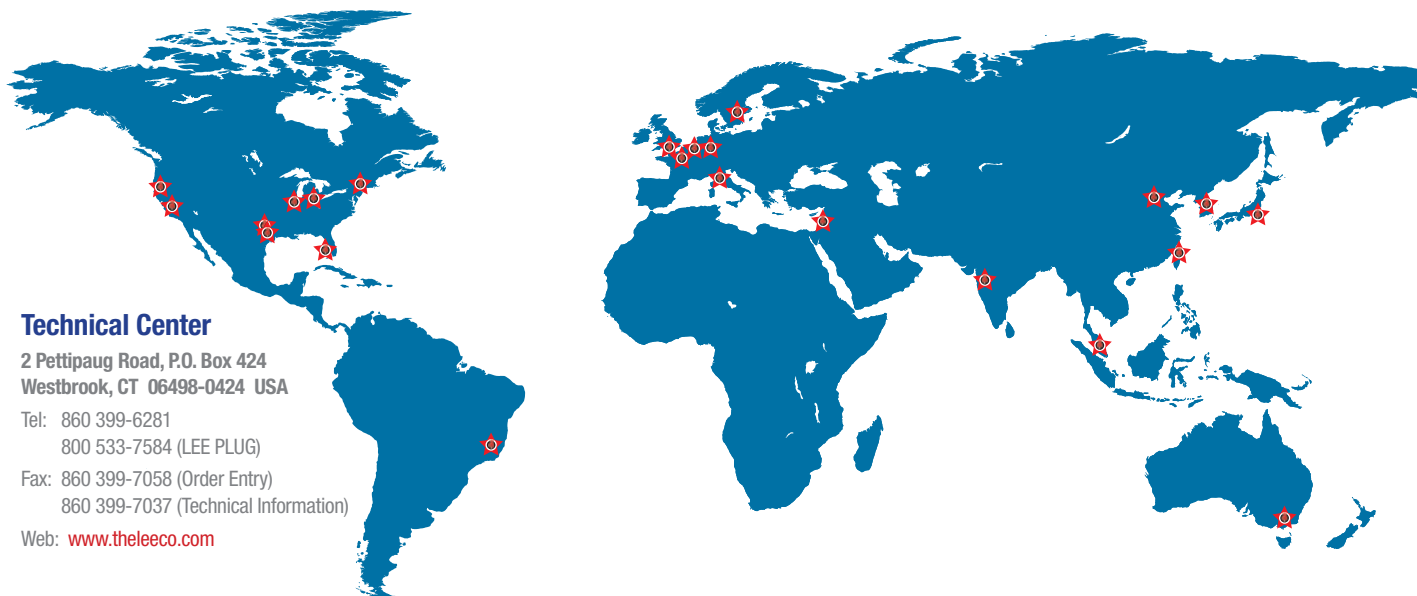
Featuring high reliability, fast response and compact size, Lee products assist in the following system functions:

- Gas Blender
- Inspiratory Module
- Sensor Calibration
- Expiratory Module



GLOBAL ENGINEERING SUPPORT

The Lee Company is committed to providing full, professional service to our customers through a worldwide sales network of graduate engineers. If you have a fluid control problem and would like to talk to an engineer, or would like product information, please contact the Technical Center or your local sales office.



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