

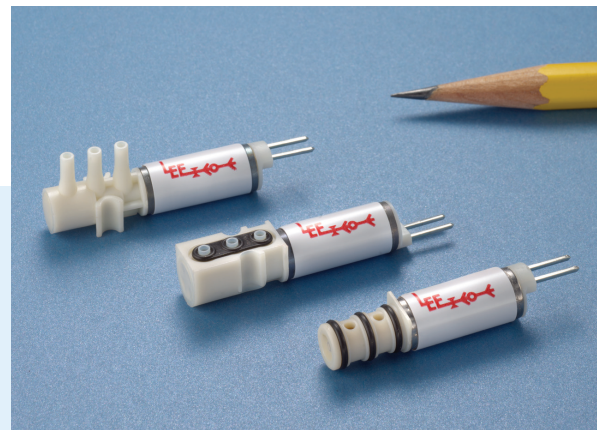
QUIET OPERATION HIGH DENSITY INTERFACE (HDI) 3-WAY SOLENOID VALVE

The Lee Company continues its expansion of the High Density Interface (HDI) solenoid valve platform by offering a design that is optimized for quiet operation. A typical solenoid valve has an inherent clicking sound when energized, which is caused by the metal-to-metal contact of the moving armature and stationary core. This new quiet operation design uses "whisper" technology to achieve patient comfort. "Whisper" technology significantly reduces actuation noise by 50%, providing a sound level measurement of less than 37 dBA when measured at a distance of 24 inches and a valve cycle frequency of 10 Hz. Reference table below for relative sound pressure levels.

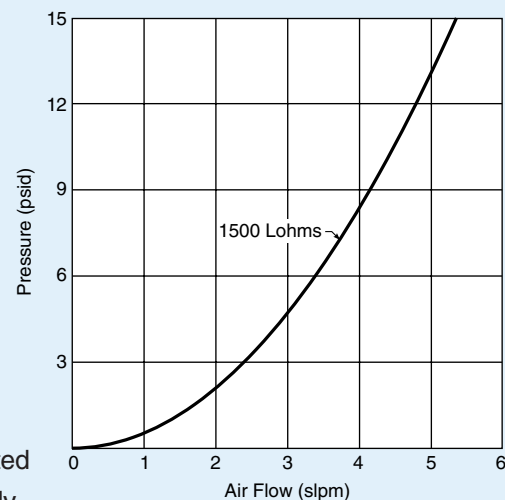
The quiet operation HDI is ideal for medical applications flowing gas or air, such as dialysis machines, patient monitors, ventilators/respirators, and other bedside medical devices.

Contact your Lee Sales Engineer for additional technical assistance and application information.

- "Whisper" Technology
- Compact Size
- Operating Pressure Range: Vac – 45 psig (0-15 psid)
- Flow Capacity (air): 3-Way; 1500 Lohms (4.4 SLPM @ 10 psig; Cv = .013)
- Light Weight: Less Than 4.5 grams
- Leakage: Less Than 50 µL/min @ 5 psig (air)
- Electrical Connection: 0.025" Sq. Pin
- Operating Temperature Range: 40°F to 120°F
- Life Expectancy: 250 Million Cycles
- Three Mounting Styles: Face Mount, Plug-In and Ported
- 50% Quieter Than Our Already Best In Class HDI Design



FLOW PERFORMANCE CHARACTERISTICS (Discharge to Atmosphere)



STYLE	LEE PART NUMBER	VOLTAGE (VDC)	WETTED MATERIALS
Plug-in	LHDA0561215H	5*	PPA, PBT, 316SS, 430F SS, FKM, Damping Fluid** and Epoxy
Face Mount	LHDA0571215H		
Ported	LHDA0581215H		

SOUND PRESSURE LEVEL SCALE (dBA)

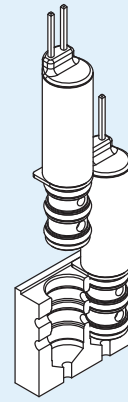
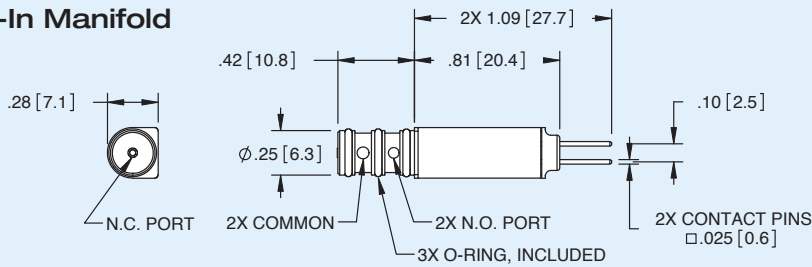
THRESHOLD OF HEARING	QUIET OFFICE INTERIOR OR WATCH TICKING	ORDINARY CONVERSATION	PASSING BUS OR TRUCK AT 10 FT. OR FOOD BLENDER AT 3 FT.	THRESHOLD OF PAIN
0	30	60	90	120

* Other voltages available upon request.
 ** Synthetic hydrocarbon fluid

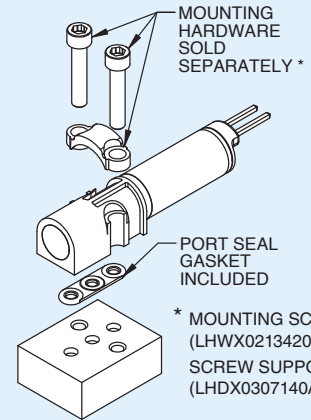
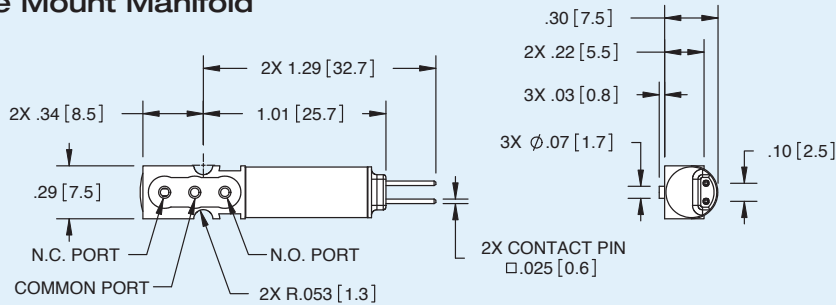
See dimensional drawings on reverse.

QUIET OPERATION SOLENOID VALVE

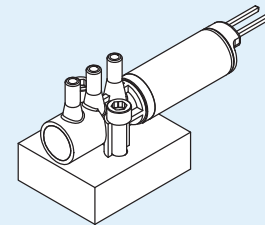
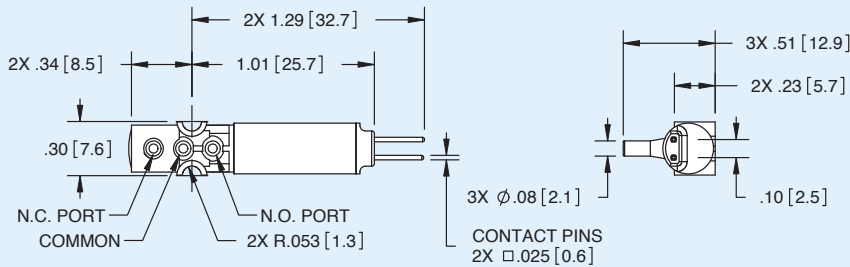
Plug-In Manifold



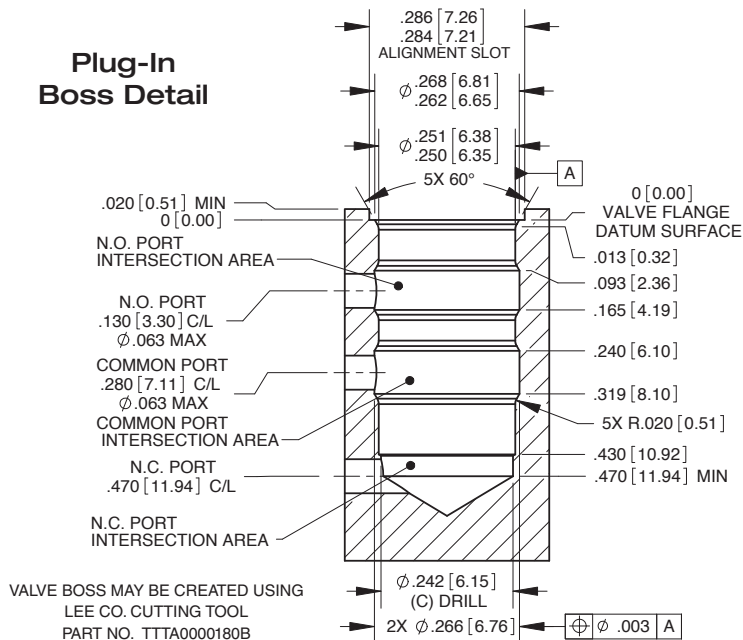
Face Mount Manifold



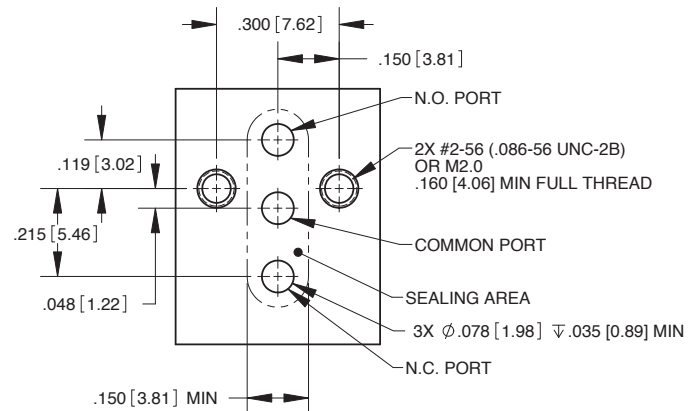
Soft Tube Ported



Plug-In Boss Detail



Face Mount Boss Detail



NOTE: Boss detail drawings not to scale.