The Lee Company continues to redefine miniature fluidics with the introduction of an even more compact High Density Interface (HDI) solenoid valve. Featuring a 2-port normally closed design, this valve is exceptionally small in size, light weight, and offers consistent performance throughout its life.

In today’s culture, the persistent demand for reliable and innovative products compels companies to integrate new and more advanced technology into smaller packages. Our ultra miniature 2-port normally closed solenoid valve offers similar performance characteristics to our traditional 3-port HDI design, but in a smaller package.

Performance parameters can be optimized for a specific application. The Lee Company offers standard manifolds for testing as well as custom designed manifold configurations for production. Contact your Lee Sales Engineer for additional technical assistance and application information.

PPA (Polyphthalamide)
PBT (Polybutylene Terephthalate)
PPS (Polyphenylene Sulfide)
FKM (Fluoroelastomer)

FLOW PERFORMANCE CHARACTERISTICS

- Light Weight: Less Than 2.5 grams
- Ultra Compact Size
- Style: Plug-In & Face Mount
- 100% Tested
- Low Internal Volume
- Operating Pressure Range: Inlet: Vac – 45 psig
  Differential: 10 psid (max)
- Electrical Connection: 0.025” Sq. pin
- Leakage: Less Than 50 SµL/min @ 10 psid, Air 70°F (21°C)
- Operating Temperature Range: 40°F to 120°F (4°C to 49°C)
- Wetted Materials: Housing (PBT), Armature/Core (FeCr Alloy), Spring (316 SS), O-Ring (FKM) and Epoxy. See table below for Internal Seal and Plunger Head wetted materials.

<table>
<thead>
<tr>
<th>STYLE</th>
<th>PART NUMBER</th>
<th>VOLTAGE** (vdc)</th>
<th>FLOW CAPACITY ON AIR @ 70°F (21°C)</th>
<th>COIL RESISTANCE @ 70°F (21°C) (ohms)</th>
<th>POWER CONSUMPTION (mW)</th>
<th>WETTED MATERIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plug-In</td>
<td>LHDB0342115H</td>
<td>3.3</td>
<td>1500 Lohms (4.4 SLPM @ 10 psid; Cv = 0.013)</td>
<td>13</td>
<td>850</td>
<td>Silicone</td>
</tr>
<tr>
<td></td>
<td>LHDB0542115H</td>
<td>5</td>
<td>1500 Lohms (4.4 SLPM @ 10 psid; Cv = 0.013)</td>
<td>28</td>
<td>890</td>
<td>Silicone</td>
</tr>
<tr>
<td></td>
<td>LHDB1242115H</td>
<td>12</td>
<td>1500 Lohms (4.4 SLPM @ 10 psid; Cv = 0.013)</td>
<td>169</td>
<td>850</td>
<td>Silicone</td>
</tr>
<tr>
<td></td>
<td>LHDB0442145D*</td>
<td>Actuation: 12 Hold: 3.5</td>
<td>450 Lohms (14.6 SLPM @ 10 psid; Cv = 0.044)</td>
<td>28</td>
<td>440 (Hold Power)</td>
<td>Silicone</td>
</tr>
<tr>
<td></td>
<td>LHDB0442245D*</td>
<td>Actuation: 24 Hold: 7</td>
<td>450 Lohms (14.6 SLPM @ 10 psid; Cv = 0.044)</td>
<td>116</td>
<td>420 (Hold Power)</td>
<td>Silicone</td>
</tr>
<tr>
<td>Face Mount</td>
<td>LHDB0352115H</td>
<td>3.3</td>
<td>1500 Lohms (4.4 SLPM @ 10 psid; Cv = 0.013)</td>
<td>13</td>
<td>850</td>
<td>Silicone</td>
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</tr>
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* Spike Actuation & Hold Drive Required. Reference Drawing Number LFIX1001750A for schematic
** Other voltages available upon request
2-PORT NORMALLY CLOSED SOLENOID VALVE

Plug-In Manifold

Face Mount Manifold

Plug-In Boss Detail

Face Mount Boss Detail

NOTES: (1) All dimensions are in inches [mm].
(2) Boss detail drawings not to scale.