**Smooth Flow without Pulsation for Advanced Processes**

LHA Series laminar flow pumps offer steady flow rates up to 30 lpm and feature process-safe PTFE/PFA flow paths. They are capable of up to 100°C (212°F) fluid temperatures, 5.5 Bar (80 psi) air supply pressures, and suction lift up to 3 m (10 ft).

**Advanced Technologies**

**Process-Safe PTFE/PFA Flow Path**
- Laminar flow up to 30 lpm
- No Elastomer O-rings
- Proven Robust Bellows
- Dead-head capable
- High Suction lift

**Features & Benefits**

- Process-safe PTFE/PFA flow paths
- Laminar flow ≤ 30 lpm*
- Air supply pressures ≤ 80 psi
- Suction lift ≤ 3 m (10 ft)
- Proven bellows technology
- Reliable operation with leak-free seals
- Durable machined design
- Dead-head capable
- Analog signal stroke detection
- Fiber optic and conductivity leak detect
- Copolymer check cages minimize wear and extend life
- Class 100 cleanroom assembly, testing, and packaging
- No preventative maintenance during two-year warranty

*Dependent on model, air supply and head pressure

https://wkfluidhandling.com/lha-series/
Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>LHA030</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Rate*</td>
<td>≤ 31 lpm (8.2 gpm)</td>
</tr>
<tr>
<td>Air Connection</td>
<td>1/4 in FNPT</td>
</tr>
<tr>
<td>Fluid Temperature</td>
<td>≤ 100°C (212°F)</td>
</tr>
<tr>
<td>Supply Air Pressure</td>
<td>≤ 5.5 Bar (80 psi)</td>
</tr>
<tr>
<td>Startup Air Pressure</td>
<td>≥ 1.4 Bar (20 psi)</td>
</tr>
<tr>
<td>Required Air Volume</td>
<td>&gt; 26 SCFM</td>
</tr>
<tr>
<td>Suction Lift*</td>
<td>≤ 3 m (10 ft)</td>
</tr>
<tr>
<td>Fluid Path Materials</td>
<td>PTFE, PFA</td>
</tr>
<tr>
<td>Non-Fluid Path Materials</td>
<td>PTFE, PFA, PP, Viton, neodymium, PETP, UHMW</td>
</tr>
<tr>
<td>Stroke Detection</td>
<td>Hall Effect Sensor (NPN or PNP)</td>
</tr>
<tr>
<td>Leak Detection</td>
<td>Fiber optic with or without sensor, or conductivity</td>
</tr>
<tr>
<td>Electronic Control</td>
<td>Call for details.</td>
</tr>
</tbody>
</table>

**Air Signals**
- Two 5-way valves (center vent) or Four 3-way valves (normally closed)
- Valves with metal seals are recommended for longer life.

**Electrical Requirements**
- 24 VDC Power
- Power consumption depends on current draw on external devices:
  - Controller power alone 4 watts
  - Max Digital Output current 500 mA sourcing or 24 mA sinking
  - Max Analog Output current 10 mA total voltage output or 20 mA with 4-20 mA conversion board

**Pump Connections**
- Four air connections 1/4-in NPT with quick exhaust connectors (one fill and one dispense for each side)
- Two leak detect sensor connections 1/4-in NPT (one for each side)
- Two fluid connections configurable to various tube connections (one inlet and one outlet)
- Two analog hall effect stroke sensing.

**Controller Connections**
- Four solenoid signals
- Two stroke rate signals (for tool feedback)
- Pump running signal (for tool feedback)
- Alarm output (for tool feedback)
- Remote signal left
- Remote signal right
- Enable scaled output signal
- Retrain pump sensors
- Leak detect input
- Reset Alarms

**Digital Inputs**
- Two stroke sensors

**Analog Inputs**
- Two stroke sensors

* May vary by configuration. Suction lift diminishes over time. Recommended installation level less than 3 ft above source.

**Dimensions**

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