Pneumatic Confirmation Valve, Block

Confirm Clamp Stroke Position Pneumatically

The pneumatic confirmation valve confirms the stage of loading before or after clamping. It is adaptable to multiple devices including: Swing clamps, link clamps, cylinders and work supports. Avoid machine crashes by confirming specific actions before you cycle your machine. It is designed to be used in both coolant and dry environments, and is easily mounted either vertically or horizontally. Confirmation at its finest!

- Easily fine tune to your fixture giving you a choice of set and differential pressure.
- Confirm signal is based on restricting air flow when tested function is present.
- Over-travel sensing will reopen if a device depresses plunger too far on over travel models.
- Can help you detect missing or misloaded parts.
- Remote venting recommended in coolant applications.
- Pneumatic Confirmation Valve can be used with almost any clamping device.

Application Setup:
Adjust actuator .64± 0.5 above valve body with clamp positioned at the bottom of clamping stroke. This will avoid valve and actuator damage if clamp over travels!

Pneumatic Confirmation Valve

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Max Air Pressure (kPa)</th>
<th>Operating Pressure Range (kPa)</th>
<th>Air Flow Rate (L/Min)</th>
<th>Differential @140 kPa Air Pressure (kPa)</th>
<th>@480 kPa Air Pressure (kPa)</th>
<th>Plunger Stroke (mm)</th>
<th>Spring Force (N)</th>
<th>Feed Port Nominal Diameter (mm)</th>
<th>Port Types</th>
</tr>
</thead>
<tbody>
<tr>
<td>45-0485-00</td>
<td>Over-Travel Sensing</td>
<td>1000</td>
<td>70-480</td>
<td>10-20</td>
<td>80 Min.</td>
<td>310 Min.</td>
<td>10 Max</td>
<td>6.6-13.3</td>
<td>2</td>
<td>Manifold and M3</td>
</tr>
<tr>
<td>45-0485-01</td>
<td>Standard</td>
<td>1000</td>
<td>70-480</td>
<td>10-20</td>
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</tr>
</tbody>
</table>

* Pressure drop when one or more valves are open. All valves must be closed for pressure confirmation. Plumb multiple valves in parallel.

NOTE: Mounting hardware not included.

For proper sealing, the mating surface must be flat within 0.08 mm with a maximum surface roughness of 1.6 µm Rₐ.
## Pneumatic Confirmation Valve Cartridge

<table>
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<tr>
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<th>Operating Pressure Range (kPa)</th>
<th>Air Flow Rate (L/Min)</th>
<th>Differential Pressure* @140 kPa Air Pressure (kPa)</th>
<th>Pressure @480 kPa Air Pressure (kPa)</th>
<th>Plunger Stroke (mm)</th>
<th>Spring Force (N)</th>
<th>Nominal Diameter (mm)</th>
<th>Max Torque (Nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>45-0495-00</td>
<td>Over-Travel Sensing</td>
<td>1000</td>
<td>70-480</td>
<td>10-20</td>
<td>80 Minimum</td>
<td>310 Minimum</td>
<td>10</td>
<td>6.6-13.3</td>
<td>2</td>
<td>25</td>
</tr>
<tr>
<td>45-0495-01</td>
<td>Standard</td>
<td>1000</td>
<td>70-480</td>
<td>10-20</td>
<td>80 Minimum</td>
<td>310 Minimum</td>
<td>10</td>
<td>6.6-13.3</td>
<td>2</td>
<td>25</td>
</tr>
</tbody>
</table>

* Pressure drop when one or more valves are open. All valves must be closed for pressure confirmation. Plumb multiple valves in parallel.

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**Diagram:**
- **Inlet Port:** 2.80 MAX INLET PORT
- **Outlet Port:** 2.0 MAX OUTLET PORT
- **Dimensions:**
  - \( \varnothing 20.00 \)
  - \( \varnothing 13.00 \)
  - \( \varnothing 17.50 \pm 12 \)
  - \( \varnothing 5.6 \pm 12 \)
  - \( \varnothing 2.70 \)
  - \( \varnothing 17.3 \)
  - \( 1.7 \)
  - \( 6.3 \)
  - \( 9.3 \)
  - \( 26.0 \)
  - \( 10.2 \)
  - \( 17.3 \)
  - \( 17 \) HEX

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**Outlet port allowable to connect at any angle to these surfaces**

**Inlet port allowable to connect at any angle to these surfaces**

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