PILOT-OPERATED 3-WAY VACUUM VALVES

These 2-position, 3-way valves feature pneumatically activated conical shutters. They can be normally used either open or closed. They are recommended in all the cases that require a quick exchange between the vacuum pump suction and the air inlet into the circuit for a quick restoration of the atmospheric pressure. They are composed of an anodised aluminium body, two vulkollan® shutters assembled onto a stainless steel stem, a membrane for servo-control made with special compounds and a thrust spring for the shutter return. These valves allow reducing frictions and internal dynamic stresses to the minimum, the result being a high response speed and a guarantee of long lasting duration.

Technical features
Working pressure: from 0.5 to 3000 mbar abs.
Servo-control pressure: see table
Temperature of the sucked fluid: from -5 to +60 °C

<table>
<thead>
<tr>
<th>Art.</th>
<th>A</th>
<th>Max. capacity</th>
<th>Vacuum level mbar abs.</th>
<th>Reaction time msec</th>
<th>Ø mm</th>
<th>Passage section mm²</th>
<th>Servo-control pressure bar (g)</th>
<th>Weight g</th>
</tr>
</thead>
<tbody>
<tr>
<td>07 01 31</td>
<td>G1/4&quot;</td>
<td>6</td>
<td>1000</td>
<td>0.5</td>
<td>5</td>
<td>10</td>
<td>8.5</td>
<td>56.8</td>
</tr>
<tr>
<td>07 02 31</td>
<td>G3/8&quot;</td>
<td>10</td>
<td>1000</td>
<td>0.5</td>
<td>5</td>
<td>10</td>
<td>11.5</td>
<td>103.8</td>
</tr>
</tbody>
</table>

Conversion ratio: inch = \( \frac{\text{mm}}{25.4} \) pounds = \( \frac{\text{g}}{453.6} \) Kg

GAS-NPT thread adapters available on page 1.117
3-WAY VACUUM SOLENOID PILOT VALVES

**Art.** | A | Max capacity | Vacuum level | Reaction time | Ø | Passage section | Servo-control pressure | Weight
---|---|---|---|---|---|---|---|---
07 03 31 | | 61/2” | 20 | 1000 | 0.5 | 6 | 15 | 15.0 | 176 | 6 ÷ 8 | 0.490

* Add the letters LP to the article for servo-control pressure 4 ÷ 6 bar (g).

---

### Art. A Max. capacity Vacuum level Reaction time Ø Passage section Servo-control pressure Weight
---
07 04 31 | | 63/4” | 40 | 1000 | 0.5 | 7 | 16 | 20 | 314 | 6 ÷ 8 | 1.063
07 05 31 | | 61” | 90 | 1000 | 0.5 | 7 | 16 | 25 | 490 | 6 ÷ 8 | 0.964

* Add the letters LP to the article for servo-control pressure 4 ÷ 6 bar (g).

---

**Conversion ratio:** inch = mm ; pounds = g = Kg

GAS-NPT thread adapters available at page 1.117

---

**NC**

---

**NO**

---

---

---

---
3-WAY VACUUM SOLENOID PILOT VALVES

3D drawings available at www.vuototecnica.net

4.14 Conversion ratio: inch = mm, pounds = g, Kg = Kg

3-Way vacuum solenoid pilot valves

<table>
<thead>
<tr>
<th>Art.</th>
<th>Max. capacity</th>
<th>Vacuum level</th>
<th>Reaction time</th>
<th>Ø</th>
<th>Passage section</th>
<th>Servo-control pressure</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>cm³/h</td>
<td>mbar abs.</td>
<td>min</td>
<td>max</td>
<td>exc.</td>
<td>deexc.</td>
</tr>
<tr>
<td>07 06 31</td>
<td>G1&quot; 1/2</td>
<td>180</td>
<td>1000</td>
<td>0.5</td>
<td>65</td>
<td>30</td>
<td>40</td>
</tr>
</tbody>
</table>

* Add the letters LP to the article for servo-control pressure 4 ÷ 6 bar (g).