Clippard’s **NPP Series Pneumatic Pinch Valves** are air-piloted devices designed to open or close tubes for controlling flow of liquids and gases. Other valve types have internal passages that may cause small amounts of fluid to remain in the valve. Pinch valves have no areas of dead volume where fluid can become trapped. Only the inside of the tubing has contact with the fluid.

Common industries that utilize pinch valves for the benefit of isolating fluid from a mechanical valve include: drug dispensing, laboratory equipment, wastewater, medical devices, chemical, food and beverage equipment, ceramic/glass/plastic, and solids handling.

All NPP Series pinch valves ship with 12” of high quality tubing pre-installed. Standard options include medical grade or food grade silicone tubing, or polyurethane tubing. Custom valve configurations and additional tubing options are available (consult factory).

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Valve Type</th>
<th>2-Way, Normally-Open &amp; Normally-Closed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium</td>
<td>Air, Water, Gas &amp; Compatible Fluids</td>
</tr>
<tr>
<td>Max. Pilot Pressure</td>
<td>250 psig</td>
</tr>
<tr>
<td>Tubing Pressure</td>
<td>See chart below</td>
</tr>
<tr>
<td>Mounting</td>
<td>#4-40</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>32 to 230°F</td>
</tr>
<tr>
<td>Wetted Materials</td>
<td>Medical or Food Grade Silicone, or Polyurethane</td>
</tr>
<tr>
<td>RoHS Compliant</td>
<td></td>
</tr>
</tbody>
</table>

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>Tubing Type</th>
<th>I.D.</th>
<th>O.D.</th>
<th>Wall</th>
<th>Tubing Dimensions</th>
<th>Tubing Max. Pressure</th>
<th>Tubing No.</th>
<th>Normally-Open</th>
<th>Part Number</th>
<th>Min. to Close*</th>
<th>Normally-Closed</th>
<th>Part Number</th>
<th>Min. to Open</th>
<th>Tubing Re-Order Part No.**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical/Laboratory Grade Silicone Tubing</td>
<td>1/16”</td>
<td>1/8”</td>
<td>0.0313”</td>
<td>105 psig</td>
<td>13</td>
<td>NPP2-1O-13</td>
<td>NPP2-1C-13</td>
<td>65 psig</td>
<td>SIH1-0402-CLT</td>
<td>NPP2-1C-15</td>
<td>SIH1-0602-CLT</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1/16”</td>
<td>3/16”</td>
<td>0.0625”</td>
<td></td>
<td>15</td>
<td>NPP2-1O-15</td>
<td>NPP2-1C-15</td>
<td>45 psig</td>
<td>URH1-0402-CLT</td>
<td>NPP2-1C-15</td>
<td>URH1-0804-CLT</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1/8”</td>
<td>1/4”</td>
<td>0.0313”</td>
<td></td>
<td>23</td>
<td>NPP2-1O-23</td>
<td>NPP2-1C-23</td>
<td>10 psig</td>
<td>SFG1-0402-CLT</td>
<td>NPP2-1C-23</td>
<td>SFG1-0804-CLT</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1/8”</td>
<td>1/4”</td>
<td>0.0625”</td>
<td></td>
<td>25</td>
<td>NPP2-1O-25</td>
<td>NPP2-1C-25</td>
<td>20 psig</td>
<td>SFG1-0402-CLT</td>
<td>NPP2-1C-25</td>
<td>SFG1-0804-CLT</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1/4”</td>
<td>3/8”</td>
<td>0.0625”</td>
<td></td>
<td>9 psig</td>
<td>NPP2-1O-27</td>
<td>NPP2-1C-27</td>
<td>SIH1-0402-CLT</td>
<td>SFG1-0402-CLT</td>
<td>NPP2-1C-27</td>
<td>SFG1-1208-CLT</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*With max. pressure in tubing. **Add -005 to order 5’ roll or -050 to order 50’ roll.
MEDICAL / LABORATORY GRADE SILICONE TUBING

Material: Platinum-cured Silicone

- Suitable for a variety of medical and laboratory applications
- Excellent flexibility
- Contains no organic plasticizers, phthalates or latex additives
- No peroxide cure chlorophenyl or PCB by-products
- Exceeds USP Class VI plastic test
- Meets ISO 10993 guidelines for body contact applications
- Manufactured to principles of FDA 21 CFR 210/211 cGMPs for pharmaceutical products
- Produced in an FDA-registered (CFN-1816403) and inspected healthcare facility

Durometer Hardness: 50 Shore A

Tensile Strength: 1,388 psi at break

Elongation at Break: 815%

Modulus at 200%: 299 psi

Tear Strength: 263 ppi

SANITARY FOOD GRADE SILICONE TUBING

Material: Platinum-cured Silicone

- Suitable for applications in the food and beverage industries where preservation of taste, aroma, and color are crucial
- Excellent flexibility
- Entirely non-toxic, non-hemolytic, and non-pyrogenic
- Meets USP Class VI Criteria and 3-A Sanitary Standards
- NSF 51 Standard
- FDA 21 CFR Part 177.2600 Criteria
- Complies with ISO 10993 guidelines for contact with blood (or other body fluids or tissue) for up to 30 days as listed in the FDA GP-84

Durometer Hardness: 50 Shore A

Tensile Strength: 1,450 psi at break

Elongation at Break: 770%

Modulus at 200%: 280 psi

Tear Strength: 200 ppi

POLYURETHANE TUBING

Material: Polyurethane

- Abrasion and chemical resistant
- Excellent flexibility
- UV stabilized
- Resin Compliance: NSF61, meets UL94MB, USPVI

Durometer Hardness: 85 Shore A

Static Burst Pressure: Over 500 psig at 70°F

Each valve includes 12” of tubing pre-installed. Tubing is also available separately in rolls of 5’ (-005) or 50’ (-050). Consult the Ordering Information chart (on reverse side) for part numbers.