Adjustable control needle valves restrict flow in both directions. There are four models offered by Clippard, all with #10-32 ports, but with various needle configurations to provide coarse or fine flow adjustment. The diagram of needle shapes and the chart on this page show the difference between these models.

Medium: Air, Water or Oil

Materials: Brass body; stainless steel needle; Nitrile seal

Mounting: Direct, in-line or #15/32-32 thread nut and lockwashers furnished as illustrated

15° Needle Valves, #10-32

Input Pressure: 2,000 psig max.
Air Flow: 3 scfm @ 50 psig; 6 scfm @ 100 psig

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MNV-1</td>
<td>Needle Valve, #10-32, Screwdriver Slot</td>
</tr>
<tr>
<td>MNV-1K</td>
<td>Needle Valve, #10-32, Knurled Knob</td>
</tr>
</tbody>
</table>

5° Needle Valves, #10-32

Input Pressure: 300 psig max.
Air Flow: 1 scfm @ 50 psig; 2.5 scfm @ 100 psig

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MNV-2</td>
<td>Needle Valve, #10-32, Screwdriver Slot</td>
</tr>
<tr>
<td>MNV-2K</td>
<td>Needle Valve, #10-32, Knurled Knob</td>
</tr>
</tbody>
</table>

3° Needle Valves, #10-32

Input Pressure: 2,000 psig max.
Air Flow: 2.5 scfm @ 50 psig; 5 scfm @ 100 psig

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MNV-3</td>
<td>Needle Valve, #10-32, Screwdriver Slot</td>
</tr>
<tr>
<td>MNV-3K</td>
<td>Needle Valve, #10-32, Knurled Knob</td>
</tr>
</tbody>
</table>

Metric line available. Visit www.clippard.com
## 3° Needle Valves, 1/8” NPT

**Part No.** | **Description** | **Input Pressure:** | **Air Flow:**
--- | --- | --- | ---
MNV-3P | Needle Valve, #10-32, Screwdriver Slot | 2,000 psig max. | 2.5 scfm @ 50 psig; 5 scfm @ 100 psig
MNV-3KP | Needle Valve, #10-32, Knurled Knob | | 

**Input Pressure:** 2,000 psig max.

**Air Flow:** 2.5 scfm @ 50 psig; 5 scfm @ 100 psig

**Part No.** | **Description** | **Input Pressure:** | **Air Flow:**
--- | --- | --- | ---
MNV-4 | 1/8 Barb | 300 psig max. | 5 scfm @ 100 psig
MNV-41 | 1/16 Barb | | 
MNV-42 | #10-32 | | 
MNV-4K | #10-32, Knurled Knob | | 

**Input Pressure:** 300 psig max.

**Air Flow:** 5 scfm @ 100 psig

---

**Speed Control Mufflers**

**Part No.** | **Description** | **Input Pressure:** | **Air Flow:**
--- | --- | --- | ---
SCM-P | Muffler, 1/8-27 NPT | | 
SCM-Q | Muffler, 1/4-18 NPT | | 
SCM-W | Muffler, 3/8-18 NPT | | 
SCM-Z | Muffler, 1/2-14 NPT | | 

**Knurled knob length based on minimum thread engagement.**

**Material:** Solid brass body; sintered bronze muffler (40 micron)

**Part No.** | **Description** | **Input Pressure:** | **Air Flow:**
--- | --- | --- | ---
SCM-P | Muffler, 1/8-27 NPT | | 
SCM-Q | Muffler, 1/4-18 NPT | | 
SCM-W | Muffler, 3/8-18 NPT | | 
SCM-Z | Muffler, 1/2-14 NPT | | 

---

**NEW! 3° Cartridge Needle Valves**

**Part No.** | **Description** | **Input Pressure:** | **Air Flow:**
--- | --- | --- | ---
MNV-4C | 4-Way Needle Cartridge Valve, Screwdriver Slot | | 
MNV-4CK | 4-Way Needle Cartridge Valve, Knurled Knob | | 

**Input Pressure:** 150 psig max.

**Air Flow:** 5 scfm @ 100 psig

---

**Metric line available. Visit [www.clippard.com](http://www.clippard.com)**
NEW! Needle Valves

Needle Valves are used to control the rate of flow in a pneumatic system by controlling flow in both directions. Material enters the input port, travels through an adjustable orifice and out the output port. Available with multiple port sizes, flow rates, mounting options and adjustment styles.

**Medium:** Air, Water or Oil

**Input Pressure:** 300 psig max.

**Air Flow:**
- GNV-3: 11 scfm @ 100 psig
- GNV-4: 45 scfm @ 100 psig
- GNV-5: 60 scfm @ 100 psig

**Materials:** Electroless nickel plated brass body and needle, anodized aluminum housing

**Mounting:** Direct, in-line or cartridge style

**Ports:** Rotating input allows 360° positioning

**Adjustment:** Recessed slotted needle or knurled knob

**Seals:** Nitrile standard. FKM optional.

- Provide bidirectional flow control
- Rugged and compact design
- Multiple mounting options
- 360° rotating ports
- Ideal for use with Push-Quick fittings

### Direct Mount Needle Valves, 1/8” NPT

![GNV-3R shown](image)

**Part No.** | **Description**
--- | ---
GNV-3R | Needle Valve, 1/8” NPT, Screwdriver Slot
GNV-3K | Needle Valve, 1/8” NPT, Knurled Knob

### Direct Mount Needle Valves, 1/4” NPT

![GNV-4K shown](image)

**Part No.** | **Description**
--- | ---
GNV-4R | Needle Valve, 1/4” NPT, Screwdriver Slot
GNV-4K | Needle Valve, 1/4” NPT, Knurled Knob

### Direct Mount Needle Valves, 3/8” NPT

![GNV-5K shown](image)

**Part No.** | **Description**
--- | ---
GNV-5R | Needle Valve, 3/8” NPT, Screwdriver Slot
GNV-5K | Needle Valve, 3/8” NPT, Knurled Knob

### In-Line Mount Needle Valves, 1/8” NPT

![GNV-3RI shown](image)

**Part No.** | **Description**
--- | ---
GNV-3RI | Needle Valve, 1/8” NPT, Screwdriver Slot
GNV-3K | Needle Valve, 1/8” NPT, Knurled Knob

---

Clippard Instrument Laboratory, Inc. 877-245-6247 www.clippard.com
NEW! **Needle Valves**

### In-Line Mount Needle Valves, 1/4” NPT

- **Part No.** GNV-4RI
  - **Description:** Needle Valve, 1/4" NPT, Screwdriver Slot
- **Part No.** GNV-4KI
  - **Description:** Needle Valve, 1/4" NPT, Knurled Knob

### In-Line Mount Needle Valves, 3/8” NPT

- **Part No.** GNV-5RI
  - **Description:** Needle Valve, 3/8" NPT, Screwdriver Slot
- **Part No.** GNV-5KI
  - **Description:** Needle Valve, 3/8" NPT, Knurled Knob

### Cartridge Needle Valves

- **Part No.** GNV-3RC
  - **Description:** Cartridge Needle Valve, Screwdriver Slot
- **Part No.** GNV-3KC
  - **Description:** Cartridge Needle Valve, Knurled Knob

- **Part No.** GNV-4RC
  - **Description:** Cartridge Needle Valve, Screwdriver Slot
- **Part No.** GNV-4KC
  - **Description:** Cartridge Needle Valve, Knurled Knob

### Cartridge Needle Valves

- **Part No.** GNV-5RC
  - **Description:** Cartridge Needle Valve, Screwdriver Slot
- **Part No.** GNV-5KC
  - **Description:** Cartridge Needle Valve, Knurled Knob

---

**Clippard Push-Quick Fittings** provide a simple method to connect pneumatic components to each other and system piping, and accept both flexible hose and rigid tubing. Both fittings and tubing are available in many styles, sizes and colors.

---

**Metric line available. Visit [www.clippard.com](http://www.clippard.com)**