There are air-breathing tubes located in both ends of the cylinder. Compressed air moves back and forth in the body. In APV-C air cushion at both ends produced by vibration power arises when the piston pushes the piston from one side to the other. Vibration power arises when the piston to-and-fro motion will keep the piston from striking the body. Therefore, the piston will not produce much noise. In APV-I, air cushion at the top end is produced by the to-and-fro compression. This will keep the piston from stricking onto the body top. The piston will strike directly on the bottom side of the body to produce a strong impact.

### SPECIFICATIONS

- **Temperature Limit:** 212°F (100°C).
- **Noise Level Range:** APV-C: 60-75 dBA; APV-I: 80-115 dBA.
- **Supply Pressure:** 29 to 87 psi (2 to 6 bar).
- **Air Consumption:** See model chart.

### Air Connection:

- 1/8" BSPT female with 1/4" OD push to connect adapter on PTV-1, 1/4" BSPT female with 1/4" OD push to connect adapter on PTV-2, PTV-3, PTV-4, and PTV-5.
- 3/8" OD push to connect adapter on PTV-6.

- Also includes muffler for exhaust port.

### Housing Material:

- Aluminum.

### Air Cushioned or Piston Vibrators

- Series APV-C Piston Vibrators are air cushioned to provide low noise. This makes it suitable for quiet area applications. It is a good solution to prevent clogs on tank walls and material delivery problems. It can also be applied on vibrating separators and conveyors.

- Series APV-I Impact version piston vibrators can help to get rid of dust or material accumulated inside of pipes or tanks. It allows direct impact on the tank with low specific gravity and high moisture materials inside. It also helps prevent material build-up, pipe plugs, and rust.

### How They Operate

There are air-breathing tubes located in both ends of the cylinder. Compressed air pushes the piston from one side to the other. Vibration power arises when the piston moves back and forth in the body. In APV-C air cushion at both ends produced by the to-and-fro motion will keep the piston from stricking the body. Therefore, the piston will not produce much noise. In APV-I, air cushion at the top end is produced by the to-and-fro compression. This will keep the piston from stricking onto the body top. The piston will strike directly on the bottom side of the body to produce a strong impact.

### Piston Vibrator

**Low Noise, High Vibration Frequency**

### Pneumatic Turbine Vibrators

**Low Noise, High Vibration Frequency**

**Series APV-C Piston Vibrators**

**Series PTV Pneumatic Turbine Vibrators**

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### Table: Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency (V.P.M.)</th>
<th>Capacity (CFM)</th>
<th>Pressure (PSI)</th>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTV-1</td>
<td>17500</td>
<td>600</td>
<td>40</td>
<td>26.3</td>
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<td>PTV-3</td>
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<td>11500</td>
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<td>PTV-4</td>
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<td>15000</td>
<td>100</td>
<td>16.1</td>
<td>$687.00</td>
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<td>20000</td>
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<td>PTV-6</td>
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<td>25000</td>
<td>150</td>
<td>16.1</td>
<td>$897.00</td>
</tr>
</tbody>
</table>

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### Pneumatic Turbine Vibrators

**Series PTV Pneumatic Turbine Vibrators** are the best choice of high vibration frequency types for a low noise environment. It is usually installed on a vibrating separator, conveyor, automatic arrangement machine, packing machine, or filling machine. The vibration is produced by centrifugal force which arises from the imbalance of movement when compressed air impacts the tangent of the turbine to make it move. The operation noise is low because of ball bearing supports on the running turbine.

**APV-C3**

- Model: APV-C3
- Frequency: 11500 V.P.M.
- Pressure: 80 psi (5.5 bar)
- Force: 1150 lbf (5160 N)
- Pressure Input: 90 psi (6.2 bar)
- Air Consumption: 8.75 cfm (241 l/min)
- Weight: 16.1 lb (7.3 kg)
- Price: $477.00

**APV-C2**

- Model: APV-C2
- Frequency: 15000 V.P.M.
- Pressure: 100 psi (6.9 bar)
- Force: 1500 lbf (6670 N)
- Pressure Input: 120 psi (8.3 bar)
- Air Consumption: 12.0 cfm (336 l/min)
- Weight: 16.1 lb (7.3 kg)
- Price: $577.00

**APV-C1**

- Model: APV-C1
- Frequency: 20000 V.P.M.
- Pressure: 120 psi (8.3 bar)
- Force: 2000 lbf (8960 N)
- Pressure Input: 140 psi (9.6 bar)
- Air Consumption: 15.0 cfm (420 l/min)
- Weight: 16.1 lb (7.3 kg)
- Price: $687.00