

LONG STROKE PINCH VALVE



This powerful pinch valve provides the same functionality as Clippard's standard NPV series but with the added benefits of a longer stroke. This makes it ideal for applications that require greater flow or those that utilize viscous or particulate-laden media. As with all Clippard pinch valves, each valve comes pre-installed with 12" (30 cm) of your choice of standard medical/laboratory grade or sanitary food grade silicone tubing. The NPV7 series comes with an integrated hit hold circuit board installed for lower power consumption, less heat, and increased life cycle.

Do you have an application that requires a special type of tubing? All Clippard pinch valves are compatible with a wide range of tubing. Contact us to discuss your specific needs.

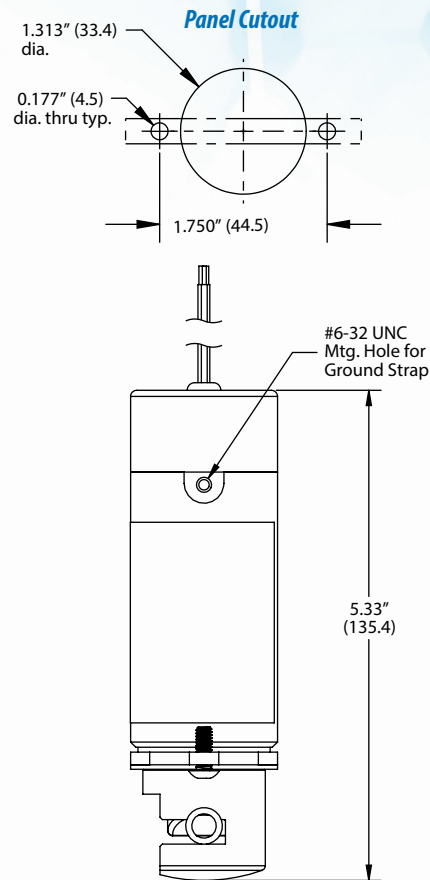
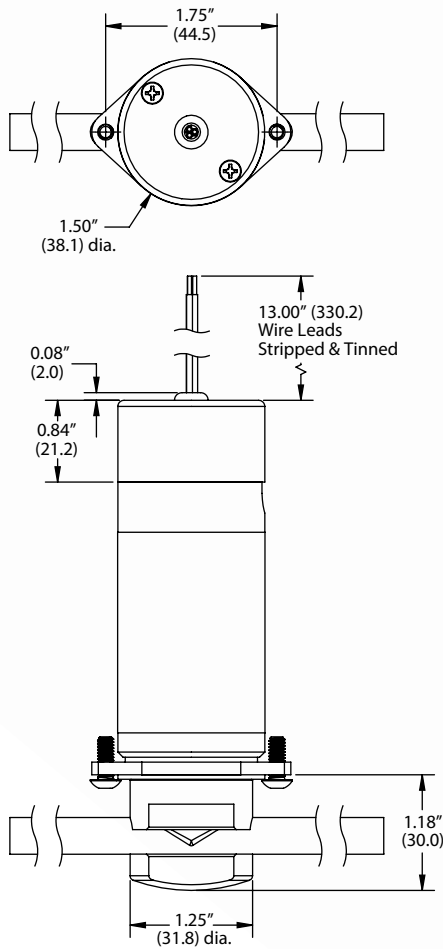
- Unobstructed flow path
- Each valve comes with 12" (30 cm) of silicone tubing pre-installed
- Tubing is easily replaceable
- Higher flow
- Longer stroke

Connection	13" (33 cm) wire leads
Documentation	IEC, RoHS
Function	2-way normally-closed
LED Indicators	Power status (green), trigger status (blue), warning status (red—indicates for > 3.75A, > 140°C, or short circuit)
Material, Body	Stainless steel and aluminum (ENP)
Material, Wetted	Silicone tubing (no wetted areas in valve)
Medium	Air, water, gas, or compatible fluids
Mount	Panel
Operating Pressure	0 to 20 psig (0 to 1.4 bar) with standard medical / laboratory grade silicone tubing
Operating Temperature	-20 to 158°F (-29 to 70°C)
Output	8-24 V, 3A max.
Response Time	50 ms
Voltage	24 VDC
Voltage, Hold PWM Freq.	Approx. 25 kHz
Voltage, Trigger Input	3.3 to 24 VDC
Wattage	72 watts hit, 8 watts hold after 115 ±15 ms
More Details	clippard.com/link/npv7

**Note: It is not recommended to use this valve without the addition of current-limiting circuitry (i.e., hit and hold circuit and/or pwm). On its own, the valve surface will reach temperatures exceeding 140°F (60°C) and will become a burn hazard.*

Applications

- Medical and analytical testing
- Dialysis
- Blood analysis and processing
- Peptide and DNA synthesis
- Bioreactors and bioprocessing
- Inkjet printing
- Liquid and gas chromatography
- Drug manufacturing
- Chemical processing
- Controlling the flow of chemical liquids and slurries
- Water and wastewater treatment
- Precision control of chemical injections
- Food and pulp processing
- Handling abrasive or viscous fluids



Dimensions shown are in inches (millimeters listed in parentheses).

Visit clippard.com for more detailed 2D and 3D drawings.

ORDERING INFORMATION

N P V 7 L - 1 C P - - 2 4

Tubing*

06
07
27

*Use the chart below to identify the appropriate tubing based on the desired specifications.

Tubing Type	Max. Pressure	Tubing I.D.	Tubing O.D.	Tubing Wall	Tubing
Medical/Laboratory Grade Silicone Tubing	20 psig (1.4 bar)	3/16" (4.8 mm)	5/16" (7.9 mm)	1/16" (1.6 mm)	06
	10 psig (0.7 bar)	1/4" (6.4 mm)	3/8" (9.5 mm)	1/16" (1.6 mm)	07
Sanitary Food Grade Silicone Tubing	9 psig (0.6 bar)	1/4" (6.4 mm)	3/8" (9.5 mm)	1/16" (1.6 mm)	27

Example Part Number:

NPV7-1CP-06-24

For more info, scan the QR code or visit
clippard.com/link/npv7

