

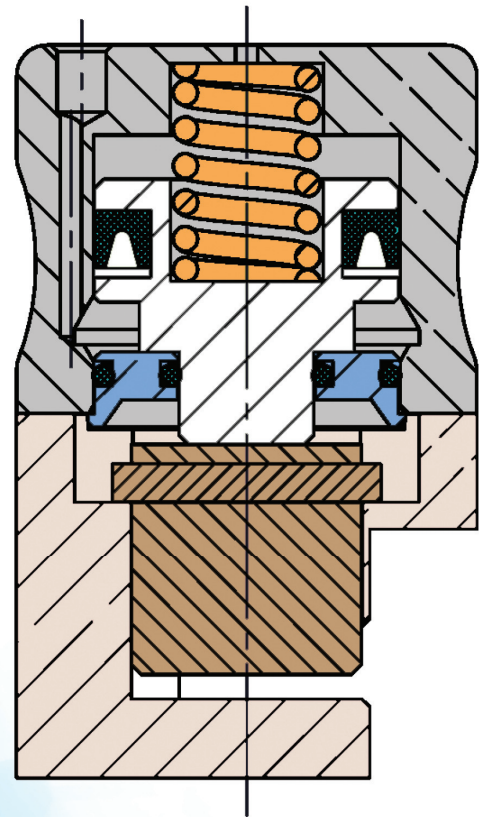
NPP SERIES PINCH VALVES



Clippard's NPP series pinch valves utilize an air-piloted design to provide the same functionality and benefits as the NPV series but with the added benefit of lower power and greater force. This makes them ideal for applications that are particularly sensitive to heat or those that require larger or firmer tubes.

- Unobstructed flow path
- Each valve comes with 12" (30 cm) of silicone tubing pre-installed
- Tubing is easily replaceable
- Low power consumption
- High cycle life
- Large variety of tubing sizes available
- Ideal for applications that are sensitive to heat
- A great choice for closing larger and/or firmer tubes

Function	2-way normally-open or normally-closed
Material, Body	Aluminum, ENP
Material, Wetted	Polyurethane tubing (<i>no wetted areas in valve</i>)
Max. Pilot Pressure	250 psig (17 bar)
Medium	Air, water, gas, or compatible fluids
Mount	#4-40 manifold (<i>M3 available</i>)
Operating Temp. Range	32 to 230°F (0 to 110°C)
Tubing, Length	Comes with 12" (30 cm) of selected tubing
Voltage	n/a (<i>air piloted</i>)
Wattage	n/a (<i>air piloted</i>)
More Details	clippard.com/link/npp-series



NPV SERIES PINCH VALVES

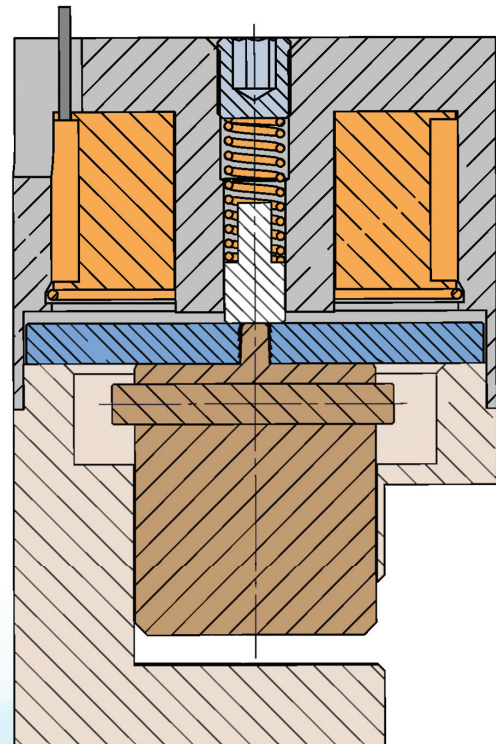


NPV series pinch valves are solenoid-operated devices that are designed to open and close tubes for controlling flow of liquids and gases. Whereas other valve types have internal passages that may cause small amounts of fluid to remain in the valve, pinch valves have no areas where fluid can become trapped. Energizing the solenoid retracts or attracts the plunger, which opens or closes the tube, while de-energizing the solenoid allows the plunger to return to its original state.

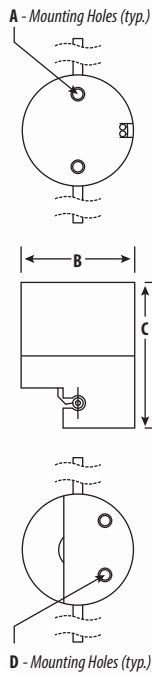
Clippard pinch valves have an unobstructed flow path with zero dead volume—only the inside of the tubing contacts the fluid. This makes them ideal for handling whole blood or other media with particulate matter.

- Unobstructed flow path
- Each valve comes with 12" (30 cm) of silicone tubing pre-installed
- Tubing is easily replaceable
- Low power consumption
- High cycle life
- Large variety of tubing sizes available

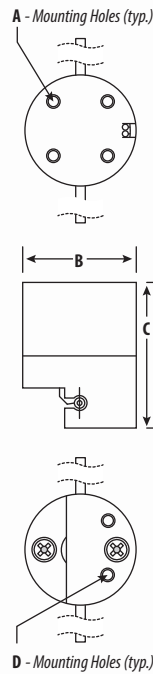
Connection	18" (45 cm) wire leads
Documentation	CE, RoHS
Function	2-way normally-open or normally-closed; 3-way, one tube normally-open, one tube normally-closed
Material, Wetted	Silicone tubing (<i>no wetted areas in valve</i>)
Max. Pressure	30 psig (2 bar)
Medium	Air, water, gas, or compatible fluids
Mount	#2-56 or #4-40 manifold (<i>M3 available</i>)
Operating Pressure	0 to 30 psig (0 to 2 bar) with standard medical / laboratory grade silicone tubing
Operating Temperature	-20 to 158°F (-29 to 70°C)
Response Time	5 to 50 ms
Voltage	12 or 24 VDC (<i>additional options available</i>)
Wattage	1.0 to 7.2 watts
More Details	clippard.com/link/npv-series



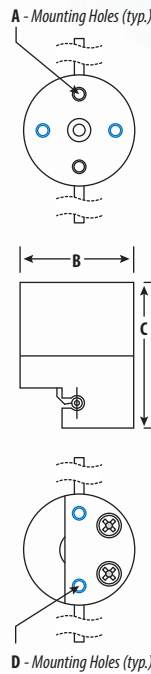
Model 1
Normally-Closed



Models 2, 3, & 4
Normally-Closed

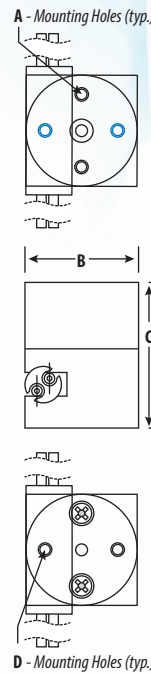


All Models
Normally-Open



■ All versions
■ Models 2, 3, & 4

All Models, 3-Way
1 Tube N.O., 1 Tube N.C.



■ All versions
■ Models 2, 3, & 4

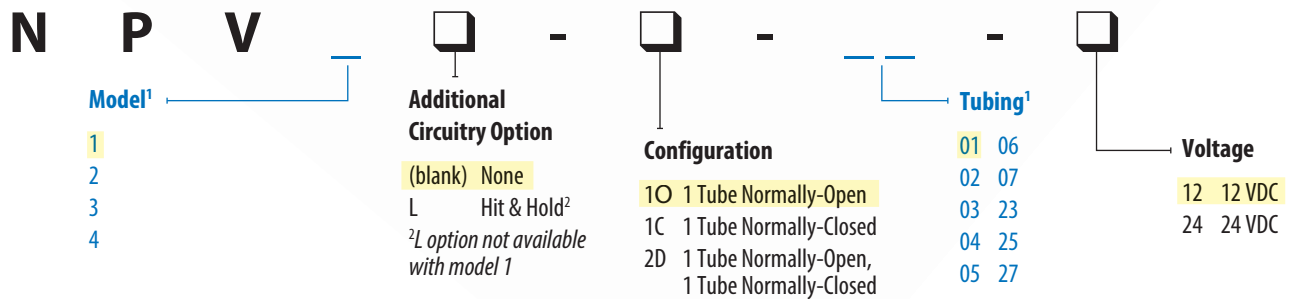
DIMENSIONS

Model	A	B	C	D
1	#2-56		1.000"	#2-56
	0.094"	0.750"	to 1.625"	0.188"
	(2.4)	(19.1)	(25.4 to 41.3)	(4.8)
2	#4-40		1.462"	#4-40
	0.125"	1.000"	to 1.842"	0.250"
	(3.2)	(25.4)	(25.4 to 46.8)	(6.4)
3	#4-40		1.842"	#4-40
	0.125"	1.250"	to 2.313"	0.250"
	(3.2)	(31.8)	(46.8 to 58.8)	(6.4)
4	#4-40		2.197"	#4-40
	0.125"	1.500"	to 2.663"	0.250"
	(3.2)	(38.1)	(55.8 to 67.6)	(6.4)

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

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

ORDERING INFORMATION



¹Use the chart below to identify the appropriate **Model** and **Tubing** based on the desired specifications.

Tubing Type	Max. Pressure	Tubing I.D.	Tubing O.D.	Tubing Wall	Amps	Power	Model	Tubing
Medical/Laboratory Grade Silicone Tubing	30 psig (2 bar)	0.030" (0.8 mm)	0.065" (1.7 mm)	0.0175" (0.4 mm)	0.08	1.0 W	1	01
		1/32" (0.8 mm)	3/32" (2.4 mm)	1/32" (0.8 mm)	0.13	1.5 W	2	02
		1/16" (1.6 mm)	1/8" (3.2 mm)	1/32" (0.8 mm)	0.13	1.5 W	2	03
	20 psig (1.4 bar)	1/16" (1.6 mm)	3/16" (4.8 mm)	1/16" (1.6 mm)	0.40	4.2 W	3	04
		1/8" (3.2 mm)	1/4" (6.4 mm)	1/16" (1.6 mm)	0.40	4.2 W	3	05
		3/16" (4.8 mm)	5/16" (7.9 mm)	1/16" (1.6 mm)	0.60	7.2 W	4	06
Sanitary Food Grade Silicone Tubing	14 psig (1 bar)	1/4" (6.4 mm)	3/8" (9.5 mm)	1/16" (1.6 mm)	0.60	7.2 W	4	07
		1/16" (1.6 mm)	1/8" (3.2 mm)	1/32" (0.8 mm)	0.13	1.5 W	2	23
	9 psig (0.6 bar)	1/8" (3.2 mm)	1/4" (6.4 mm)	1/6" (1.6 mm)	0.40	4.2 W	3	25
		1/4" (6.4 mm)	3/8" (9.5 mm)	1/16" (1.6 mm)	0.60	7.2 W	4	27

Example Part Number:

NPV1-1O-01-12

For more info, scan the QR code or visit

clippard.com/link/npv-series

