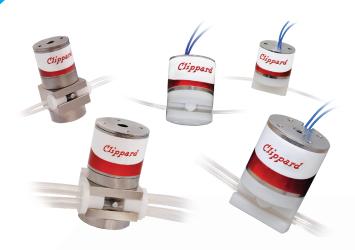
NPV SERIES PINCH VALVES



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.

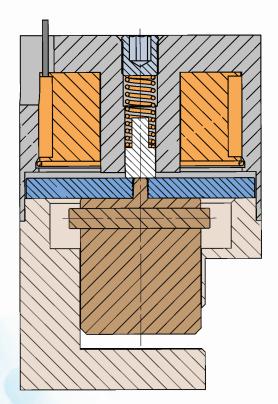
Clippard pinch valves have an unobstructed flow path with zero dead volume—only the inside of the tubing contacts the fluid. This makes them ideal for handling whole blood or other media with particulate matter.

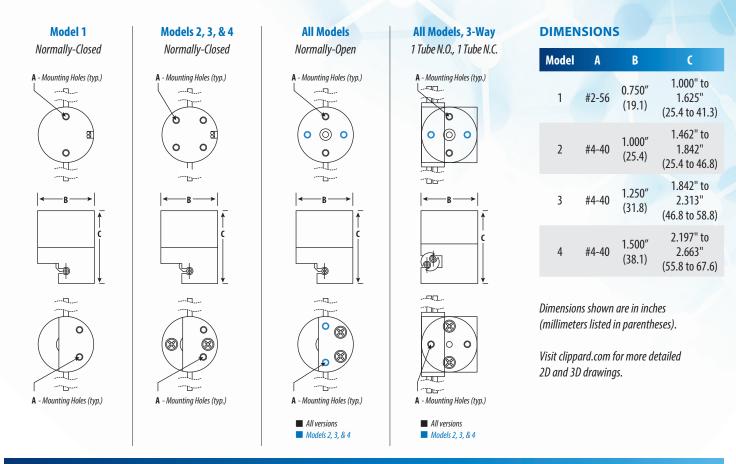
- Unobstructed flow path
- Each valve comes with 12" (30 cm) of silicone tubing pre-installed
- Tubing is easily replaceable
- Low power consumption
- High cycle life
- Large variety of tubing sizes available

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 (no wetted areas in valve)				
Max. Pressure	30 psig (2 bar)				
Medium	Air, water, gas, or compatible fluids				
Mount	#2-56 or #4-40 manifold (M3 available)				
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 (additional options available)				
Wattage	1.0 to 7.2 watts				
More Details	clippard.com/link/npv-series				

RoHS

M Available in Metric





ORDERING INFORMATION

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	Model* ⊢—		Tubing *	
	1 2 3 4	Configuration	01 06 02 07 03 23 04 25 05 27	Voltage 12 12 VDC 24 24 VDC

*Use 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
		1/16" (1.6 mm)	3/16" (4.8 mm)	1/16" (1.6 mm)	0.40	4.2 W	3	04
	20 psig (1.4 bar)	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
		1/4" (6.4 mm)	3/8″ (9.5 mm)	1/16" (1.6 mm)	0.60	7.2 W	4	07
Sanitary Food Grade Silicone Tubing	14 psig (1 bar)	1/16" (1.6 mm)	1/8″ (3.2 mm)	1/32" (0.8 mm)	0.13	1.5 W	2	23
		1/8″ (3.2 mm)	1/4" (6.4 mm)	1/6" (1.6 mm)	0.40	4.2 W	3	25
	9 psig (0.6 bar)	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**

