

# ELECTRONIC NPV SERIES PINCH VALVES

## 2-WAY & 3-WAY VALVES WITH DISPOSABLE TUBING



<b>Valve Type</b>	2-Way Normally-Open or Normally-Closed 3-Way (one tube N.O., one tube N.C.)
<b>Medium</b>	Air, water, gas, or compatible fluids
<b>Max. Pressure Range</b>	20 to 30 psig*
<b>Power Consumption</b>	1.0 to 7.2 watts
<b>Electrical Connections</b>	18" wire leads
<b>Voltage</b>	12 or 24 VDC
<b>Mounting</b>	#2-56, #4-40
<b>Wetted Materials</b>	Silicone tubing
<b>More Details</b>	<a href="http://clippard.com/link/npv">clippard.com/link/npv</a>

\*With standard medical/laboratory grade silicone tubing

- Small, compact design
- Hygienic and easy to clean (replace tubes)
- Low power consumption
- High cycle life
- Can handle whole blood and particulate matter
- Unobstructed flow path
- Each valve comes with 12" of silicone tubing, pre-installed
- Choose from a large variety of easily replaceable tubing

All NPV Series pinch valves ship with 12" of high quality silicone tubing pre-installed. Standard options include medical/laboratory grade or FDA approved food grade silicone tubing. Custom valve configurations and additional tubing options are available (consult factory).

The Clippard NPV series pinch valve is a solenoid-operated device that is designed to open and close tubes for controlling flow of liquids and gases. Other valve types have internal passages that may cause small amounts of fluid to remain in the valve. Pinch valves have no areas or dead volume where fluid can become trapped. Only the inside of the tubing contacts the fluid. Energizing the solenoid retracts or extends the plunger, which opens or closes the tube. De-energizing the solenoid will allow the plunger to return to its original state.

NPV Series pinch valves are available with one tube or two tubes. The single tube versions function as standard "on/off" 2-Way valves and are available in Normally-Open or Normally-Closed. The two tube versions feature one Normally-Open tube and one Normally-Closed tube, allowing them to function as 3-Way valves.

Tubing Type	Max. Pressure	Power	Model	1 Tube N.C.	1 Tube N.O.	2 Tubes	I.D.	O.D.	Wall
Medical/ Laboratory Grade Silicone Tubing	30 psi	1 W	NPV1	NPV1-1C-01-□	NPV1-1O-01-□	NPV1-2D-01-□	0.030"	0.065"	0.0175"
		1.5 W	NPV2	NPV2-1C-02-□	NPV2-1O-02-□	NPV2-2D-02-□	1/32"	3/32"	0.0313"
				NPV2-1C-03-□	NPV2-1O-03-□	NPV2-2D-03-□	1/16"	1/8"	0.0313"
	20 psi	4.2 W	NPV3	NPV3-1C-04-□	NPV3-1O-04-□	NPV3-2D-04-□	1/16"	3/16"	0.0625"
				NPV3-1C-05-□	NPV3-1O-05-□	NPV3-2D-05-□	1/8"	1/4"	0.0625"
		7.2 W	NPV4	NPV4-1C-06-□	NPV4-1O-06-□	NPV4-2D-06-□	3/16"	5/16"	0.0625"
NPV4-1C-07-□	NPV4-1O-07-□			—	1/4"	3/8"	0.0625"		
Sanitary Food Grade Silicone Tubing	14 psi	1.5 W	NPV2	NPV2-1C-23-□	NPV2-1O-23-□	NPV2-2D-23-□	1/16"	1/8"	0.0313"
		4.2 W	NPV3	NPV3-1C-25-□	NPV3-1O-25-□	NPV3-2D-25-□	1/8"	1/4"	0.0625"
	9 psi	7.2 W	NPV4	NPV4-1C-27-□	NPV4-1O-27-□	—	1/4"	3/8"	0.0625"