

PNEUMATIC NPP SERIES PINCH VALVES

2-WAY MINIATURE VALVES WITH DISPOSABLE TUBING



Clippard's NPP series miniature pneumatic pinch valves are air-piloted devices designed to open or 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 of dead volume where fluid can become trapped. Only the inside of the tubing has contact with the fluid. The NPP series functions as a standard "on/off" 2-Way valve and is available in Normally-Open or Normally-Closed versions.

Pinch valves are especially well-suited for applications which benefit from a disposable flow path. Common industries that utilize pinch valves for isolating fluid from a mechanical valve include: drug dispensing, laboratory equipment, wastewater, medical devices, chemical, food and beverage equipment, ceramic/glass/plastic, and solids handling.

Valve Type	2-Way, Normally-Open & Normally-Closed
Medium	Air, water, gas, or compatible fluids
Max. Pilot Pressure	250 psig
Tubing Pressure	See chart below
Mounting	#4-40
Temperature Range	32 to 230°F
Wetted Materials	Medical or food grade silicone, or polyurethane
More Details	clippard.com/link/npp

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

Tubing Type	Tubing Max. Pressure	1 Tube N.C.	Min. to Open*	1 Tube N.O.	Min. to Close*	I.D.	O.D.	Wall
Medical/ Laboratory Grade Silicone Tubing	30 psi	NPP2-1C-03	30 psig	NPP2-1O-01	15 psig	1/16"	1/8"	0.0313"
		NPP2-1C-04		NPP2-1O-02	40 psig	1/16"	3/16"	0.0625"
	20 psi	NPP4-1C-05	20 psig	NPP4-1O-05	10 psig	1/8"	1/4"	0.0625"
		NPP4-1C-06		NPP4-1O-06		3/16"	5/16"	0.0625"
		NPP4-1C-07		NPP4-1O-07		1/4"	3/8"	0.0625"
Polyurethane Tubing	105 psi	NPP2-1C-13	65 psig	NPP2-1O-13	50 psig	1/16"	1/8"	0.0313"
		NPP4-1C-15		NPP4-1O-15	45 psig	1/32"	3/32"	0.0313"
Sanitary Food Grade Silicone Tubing	14 psi	NPP2-1C-23	30 psig	NPP2-1O-23	15 psig	1/16"	1/8"	0.0313"
		NPP4-1C-25		NPP4-1O-25		1/8"	1/4"	0.0625"
	9 psi	NPP4-1C-27	20 psig	NPP4-1O-27	10 psig	1/4"	3/8"	0.0625"

*With max. pressure in tubing.