



## NPP Series 2-Way Miniature Pneumatic Pinch Valves



- Small, compact design
- Normally-Open or Normally-Closed styles
- Hygienic and easy to clean (replace tubes)
- Can handle whole blood and particulate matter
- Unobstructed flow path
- Each valve comes complete with 12" of selected tubing
- Wide variety of easily replaceable tubing sizes and materials available (see back)
- For optimum performance, all products are 100% tested

Clippard's **NPP Series 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.

Common industries that utilize pinch valves for the benefit of 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.

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

### SPECIFICATIONS

Valve Type	2-Way, Normally-Open & Normally-Closed
Medium	Air, Water, Gas & 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
RoHS Compliant	

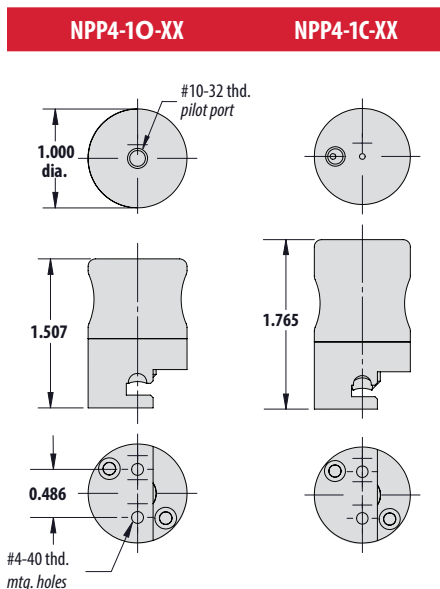
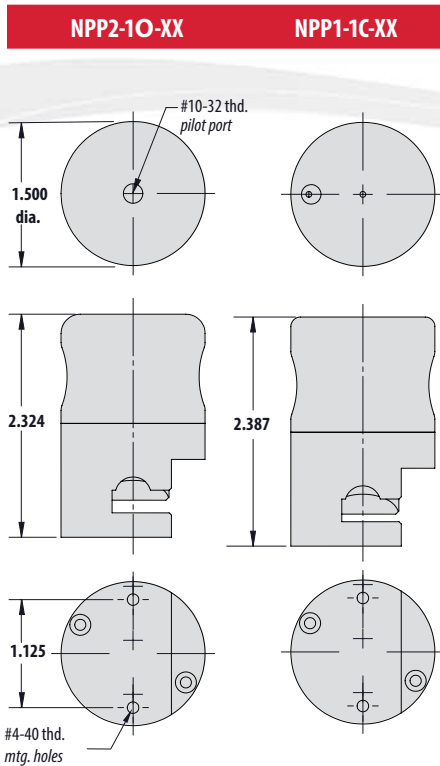
Read more online at [clippard.com/link/npp-tds](http://clippard.com/link/npp-tds)

### ORDERING INFORMATION

Tubing Type	Tubing Dimensions			Tubing Max. Pressure	Tubing No.	Normally-Open		Normally-Closed		Tubing Re-Order Part No.**
	I.D.	O.D.	Wall			Part Number	Min. to Close*	Part Number	Min. to Open	
Medical/ Laboratory Grade Silicone Tubing	1/16"	1/8"	0.0313"	30 psig	03	NPP2-1O-03	15 psig	NPP2-1C-03	30 psig	SIH1-0402-NAS
	1/16"	3/16"	0.0625"		04	NPP2-1O-04	40 psig	NPP2-1C-04		SIH1-0602-NAS
	1/8"	1/4"	0.0625"	20 psig	05	NPP4-1O-05	10 psig	NPP4-1C-05	20 psig	SIH1-0804-NAS
	3/16"	5/16"	0.0625"		06	NPP4-1O-06		NPP4-1C-06		SIH1-1006-NAS
	1/4"	3/8"	0.0625"		07	NPP4-1O-07		NPP4-1C-07		SIH1-1208-NAS
Polyurethane Tubing	1/16"	1/8"	0.0313"	105 psig	13	NPP2-1O-13	50 psig	NPP2-1C-13	65 psig	URH1-0402-CLT
	1/8"	1/4"	0.0625"		15	NPP4-1O-15	45 psig	NPP4-1C-15		URH1-0804-CLT
Sanitary Food Grade Silicone Tubing	1/16"	1/8"	0.0313"	14 psig	23	NPP2-1O-23	15 psig	NPP2-1C-23	30 psig	SFG1-0402-NAS
	1/8"	1/4"	0.0625"		25	NPP4-1O-25	10 psig	NPP4-1C-25	20 psig	SFG1-0402-NAS
	1/4"	3/8"	0.0625"	9 psig	27	NPP4-1O-27		NPP4-1C-27		SFG1-0402-NAS

\*With max. pressure in tubing. \*\*Add -005 to order 5' roll or -050 to order 50' roll.

## DRAWINGS



## MEDICAL / LABORATORY GRADE SILICONE TUBING

<b>Material</b>	Platinum-cured Silicone	• Suitable for a variety of medical and laboratory applications
<b>Durometer Hardness</b>	50 Shore A	• Excellent flexibility
<b>Tensile Strength</b>	1,388 psi at break	• Contains no organic plasticizers, phthalates or latex additives
<b>Elongation at Break</b>	815%	• No peroxide cure chlorophenyl or PCB by-products
<b>Modulus at 200%</b>	299 psi	• Exceeds USP Class VI plastic test
<b>Tear Strength</b>	263 ppi	• Meets ISO 10993 guidelines for body contact applications
		• Manufactured to principles of FDA 21 CFR 210/211 cGMPs for pharmaceutical products
		• Produced in an FDA-registered (CFN-1816403) and inspected healthcare facility

## SANITARY FOOD GRADE SILICONE TUBING

<b>Material</b>	Platinum-cured Silicone	• Suitable for applications in the food and beverage industries where preservation of taste, aroma, and color are crucial
<b>Durometer Hardness</b>	50 Shore A	• Excellent flexibility
<b>Tensile Strength</b>	1,450 psi at break	• Entirely non-toxic, non-hemolytic, and non-pyrogenic
<b>Elongation at Break</b>	770%	• Meets USP Class VI Criteria and 3-A Sanitary Standards
<b>Modulus at 200%</b>	280 psi	• NSF 51 Standard
<b>Tear Strength</b>	200 ppi	• FDA 21 CFR Part 177.2600 Criteria
		• Complies with ISO 10993 guidelines for contact with blood (or other body fluids or tissue) for up to 30 days as listed in the FDA GP-84

## POLYURETHANE TUBING

<b>Material</b>	Polyurethane	• Abrasion and chemical resistant
<b>Durometer Hardness</b>	85 Shore A	• Excellent flexibility
<b>Static Burst Pressure</b>	Over 500 psig at 70°F	• UV stabilized
		• Resin Compliance: NSF61, meets UL94MB, USPVI

Each valve includes 12" of tubing pre-installed. Tubing is also available separately in rolls of 5' (-005) or 50' (-050). Consult the Ordering Information chart (on reverse side) for part numbers.

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