NPV Long Stroke Pinch Valve

NPV7L-1CP-07-24

Clippard’s high flow pinch valve provides the same functionality as the standard series but with the added benefits of a longer stroke. This makes it ideal for applications that require greater flow or those that utilize viscous or particulate-laden media. This series incorporates an integrated hit hold circuit board installed for lower power consumption, less heat and increased cycle life. As with all Clippard pinch valves, each valve comes pre-installed with 12” (30 cm) of your choice of standard medical/laboratory grade or sanitary food grade silicone tubing.

2D File	See Data Sheet
Accuracy	>99%
Applications Form	Applications Form
Connection	13" (33 cm) Wire Leads
Data Sheet	Data Sheet, Hit & Hold Info
Documentation	IEC, RoHs (Download)
Function	2-Way Normally-Closed
Hit Time	115 ±15 ms
LED Indicators	Power Status (green), Trigger Status (blue), Warning Status (red-indicates for >3.75A, >140°C, or short circuit), Feedback Status (yellow)
Length	4.570" (116.1 mm)
Life Cycle	±1,000,000
Material, Body	Stainless Steel and Aluminum (ENP)
Material, Tube	Silicone
Material, Wetted	Silicone Tubing (no wetted areas in valve)
Max PSI	10 psi (0.7 bar)
Max. Panel Thickness	1/4" (6.4 mm)
Medium	Air, Water, Gas, or Compatible Fluids
Mount	Panel
Operating Pressure	0 to 20 psig (0 to 1.4 bar) with standard medical/laboratory grade silicone tubing
Operating Temperature Range	-20 to 158°F (-29 to 70°C)
Product Line Brochure	Isolation Valves
Response Time	<50 ms
Silicone Tubing	Medical/Laboratory Grade
Thread Depth	#2-56 (max. 0.094")
Trigger Input	3.3 to 24 VDC, 10 mA @ 24 VDC
Tubing (mm)	1/4" (6.4) ID-3/8" (9.5) OD
Tubing, Durometer Hardness	50 Shore A
Tubing, Elongation at Break	815%
Tubing, Modulus at 200%	299 psi (21 bar)
Tubing, Tear Strength	263 ppi
Tubing, Tensile Strength at Break	1,388 ppi
Tubing, Wall Thickness	1/16" (1.6 mm)
Voltage	24 VDC
Voltage, Hold PWM Freq.	Approximately 25 kHz
Voltage, Trigger Input	3.3 to 24 VDC
Wattage	72 Watts Hit, 8 Watts Hold after 115 ±15 ms