

# Clippard

## NPV Long Stroke Pinch Valve

### NPV7L-1CP-27-24



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.

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|--|---|
| <b>2D File</b>                           | See Data Sheet  |
| <b>Applications Form</b>                 | <a href="#">Applications Form</a>   |
| <b>Circuitry Option</b>                  | Hit & Hold  |
| <b>Connection</b>                        | 13" (33 cm) Wire Leads  |
| <b>Data Sheet</b>                        | <a href="#">Data Sheet</a> , <a href="#">Hit &amp; Hold Info</a> , <a href="#">State Feedback Info</a>                            |
| <b>Documentation</b>                     | IEC, RoHs ( <a href="#">Download</a> )  |
| <b>Function</b>                          | 2-Way Normally-Closed   |
| <b>Hit Time</b>                          | 115 ±15 ms  |
| <b>LED Indicators</b>                    | Power Status (green), Trigger Status (blue), Warning Status (red-indicates for >3.75A or short circuit), Feedback Status (yellow) |
| <b>Length</b>                            | 4.570" (116.1 mm)   |
| <b>Life Cycle</b>                        | ±1,000,000  |
| <b>Material, Body</b>                    | Stainless Steel and Aluminum (ENP)  |
| <b>Material, Tube</b>                    | Silicone  |
| <b>Material, Wetted</b>                  | Silicone Tubing (no wetted areas in valve)  |
| <b>Max PSI</b>                           | 9 psi (0.6 bar)   |
| <b>Max. Panel Thickness</b>              | 1/4" (6.4 mm)   |
| <b>Medium</b>                            | Air, Water, Gas, or Compatible Fluids   |
| <b>Mount</b>                             | Panel   |
| <b>Operating Pressure</b>                | 0 to 20 psig (0 to 1.4 bar) with standard medical/laboratory grade silicone tubing  |
| <b>Operating Temperature Range</b>       | -20 to 158°F (-29 to 70°C)  |
| <b>Product Line Brochure</b>             | <a href="#">Isolation Valves</a>  |
| <b>Response Time</b>                     | <50 ms  |
| <b>Silicone Tubing</b>                   | Food Grade  |
| <b>Thread Depth</b>                      | #2-56 (max. 0.094")   |
| <b>Trigger Input</b>                     | 3.3 to 24 VDC, 10 mA @ 24 VDC   |
| <b>Tubing (mm)</b>                       | 1/4" (6.4) ID-3/8" (9.5) OD   |
| <b>Tubing, Elongation at Break</b>       | 770%  |
| <b>Tubing, Modulus at 200%</b>           | 280 psi (19 bar)  |
| <b>Tubing, Tear Strength</b>             | 200 ppi   |
| <b>Tubing, Tensile Strength at Break</b> | 1,450 ppi   |
| <b>Tubing, Wall Thickness</b>            | 1/16" (1.6 mm)  |
| <b>Unit</b>                              | Imperial  |
| <b>Voltage</b>                           | 24 VDC  |
| <b>Voltage, Hold PWM Freq.</b>           | Approximately 25 kHz  |
| <b>Voltage, Trigger Input</b>            | 3.3 to 24 VDC   |
| <b>Wattage</b>                           | 72 Watts Hit, 8 Watts Hold after 115 ±15 ms   |

