

HIT & HOLD OPTION



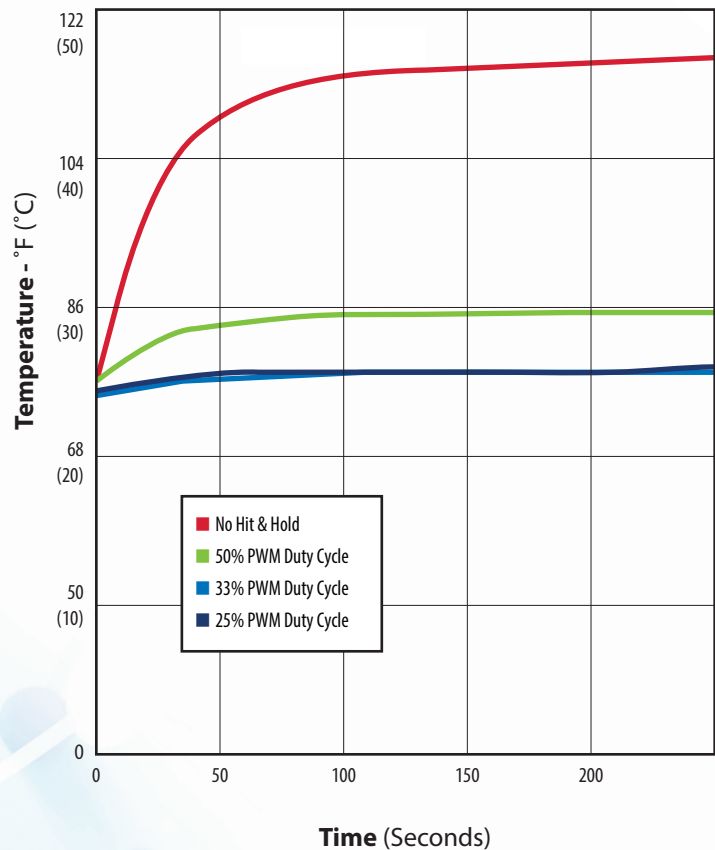
Output	8-24 V, 3A max.
Hold Voltage PWM Freq.	Approx. 25 KHz
LED Indicators	Power status (green), trigger status (blue), warning (red)—indicates for over 3.75 A, over 140°C, or short circuit)
Hit Time	115 ±15 ms
Trigger Input	3.3 to 24 VDC
Life Cycle	1,000,000 expected
More Info	clippard.com/link/hit-hold

The general principal behind a hit and hold circuit is that the valve is energized to full power for a short period of time before dropping the voltage and current to a specified level. Applications that are sensitive to heat rise can greatly benefit from hit and hold circuits by maintaining lower temperatures in a variety of applications. In some applications, hit and hold can actually extend the life of the valve.

Clippard's hit and hold option minimizes the heat generated by the coil while dropping power consumption to 1/4, 1/9, or 1/16 of the rated power when the holding voltage PWM duty cycle is 50%, 33%, and 25% respectively. The optimized duty cycle is factory set and is available on Clippard NIV, PIV, and NPV series valves.

- Lower power consumption
- Less heat generation by the coil
- Increased life cycle
- Ideal for applications that are sensitive to heat rise

VALVE HEATING TREND



NPV-2 duty cycle testing under ambient temperature conditions

NPV-P
Panel Mounted Pinch Valves

NIV / NPV
Isolation and Pinch Valves

DIMENSIONS, NPV-P (Panel Mounted Pinch Valves)

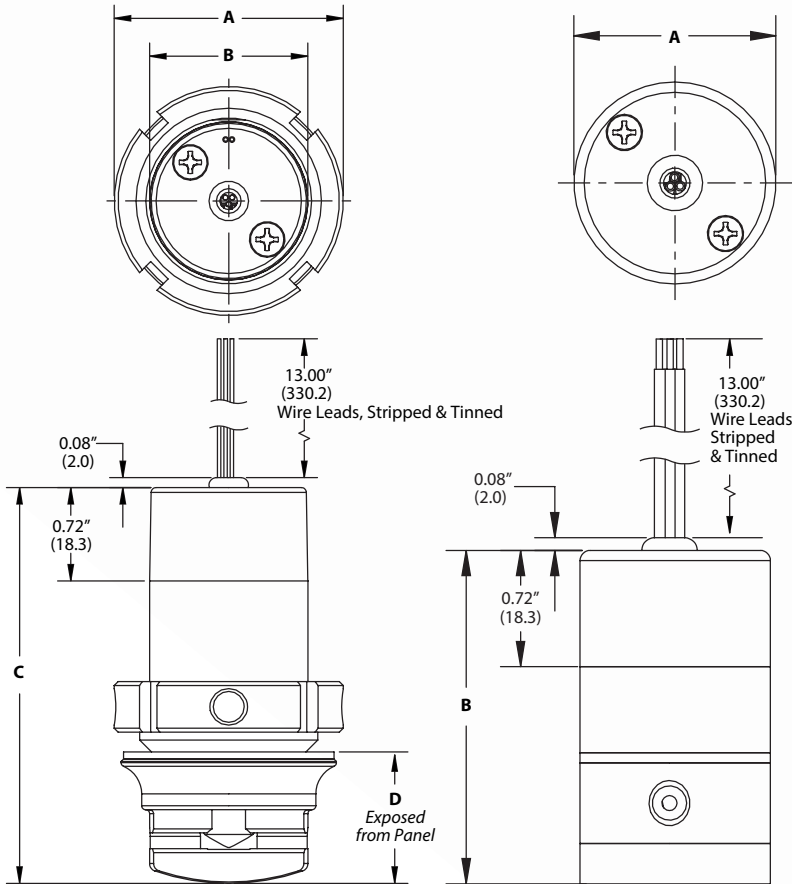
Model	2	3	4
A	1.45" dia. (36.8)	1.70" dia. (43.1)	1.94" dia. (49.4)
B	1.00" dia. (25.4)	1.25" dia. (31.7)	1.50" dia. (38.1)
C	2.63" (66.9)	3.04" (77.2)	3.42" (87.0)
D	0.83" (21.2)	1.04" (26.4)	1.32" (33.6)

DIMENSIONS, NIV & NPV (Isolation & Pinch Valves)

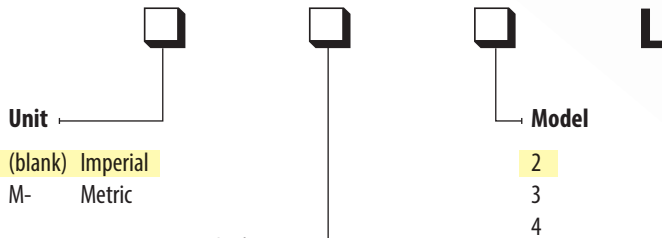
Model	2	3	4
A	1.00" dia. (25.4)	1.25" dia. (31.7)	1.50" dia. (38.1)
B	2.04" (51.8)	2.44" (61.9)	2.79" (70.8)

Dimensions shown are in inches
(millimeters listed in parentheses).

Visit clippard.com for more detailed
2D and 3D drawings.



ORDERING INFORMATION



Unit
(blank) Imperial
M- Metric

Model
2
3
4

Series
NPV NPV Series Pinch Valve
NIV NIV Series PTFE Isolation Valve or Gradient/Mixing Valve
PIV PIV Series PTFE & PEEK Isolation Valve

Refer to the series data sheet or
online configurator for complete
ordering information

For more info, scan the
QR code or visit

clippard.com/link/hit-hold

