

Clippard

STATE FEEDBACK PINCH VALVE



Clippard's State Feedback option gives you real-time insight into your valve's status for enhanced automation, improved diagnostics, and more intelligent control. This feature provides both an electrical signal and LED indicators to show when the valve is open or closed.

Whether you're logging system data, enabling safety blocks, or simply verifying operation, Clippard's State Feedback option delivers clear, accurate valve monitoring in a simple plug-and-play solution.

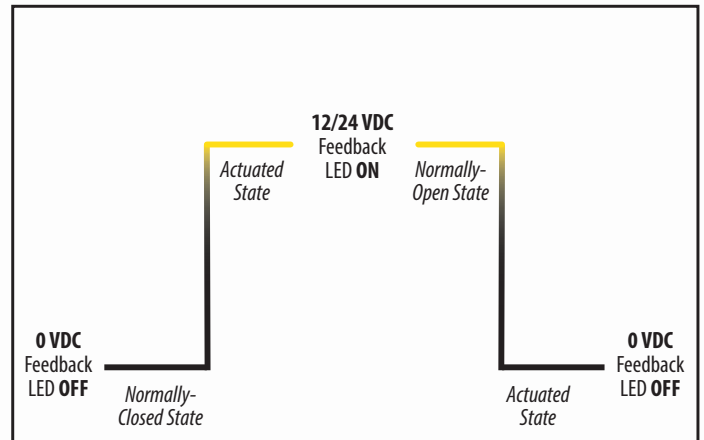
Applications include smart automation and process control systems, medical and analytical instrumentation, data logging for validation and compliance, high-cycle OEM systems needing status feedback, and more.

- Real-time status monitoring via output signal and visual LED feedback
- Closed-loop capability enables intelligent behavior and tighter process control
- Visual diagnostics with LED indicators for easy troubleshooting
- Integrated hit & hold circuit reduces power consumption and heat generation

Hold Voltage PWM Freq.	Approx. 25 kHz
LED Indicators	Power status (green), trigger status (blue), feedback status (yellow), warning (red—indicates for over 3.75 A or short circuit)
Hit Time	115 ± 30 ms
Hit & Hold Trigger Input	3.3 to 24 VDC, 10 mA @ 24 VDC trigger input
Operating Temperature	-20 to 158°F (-29 to -70°C)
SF Voltage	12 or 24 VDC valve nominal (VDC dependent)
SF Response Time	<50 ms
Valve Voltage	12 or 24 VDC (nominal)

SF = State Feedback

FEEDBACK SIGNAL LEVELS



For normally-closed position valves, the state feedback signal is 0 VDC and when actuated the state feedback signal will be 12 or 24 VDC (valve VDC dependent).

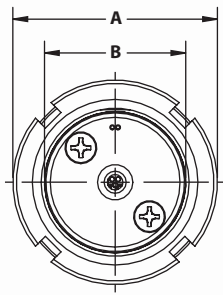
For normally-open position valves, the state feedback signal will be 12 or 24 VDC (valve VDC dependent) and when the valve is actuated the state feedback signal will be 0 VDC.



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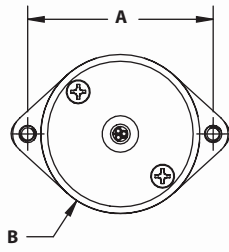
NPV-P

Panel Mounted Pinch Valves



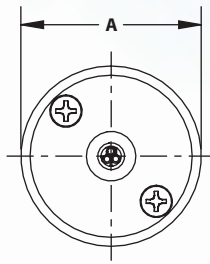
NPV7

Long Stroke Pinch Valve

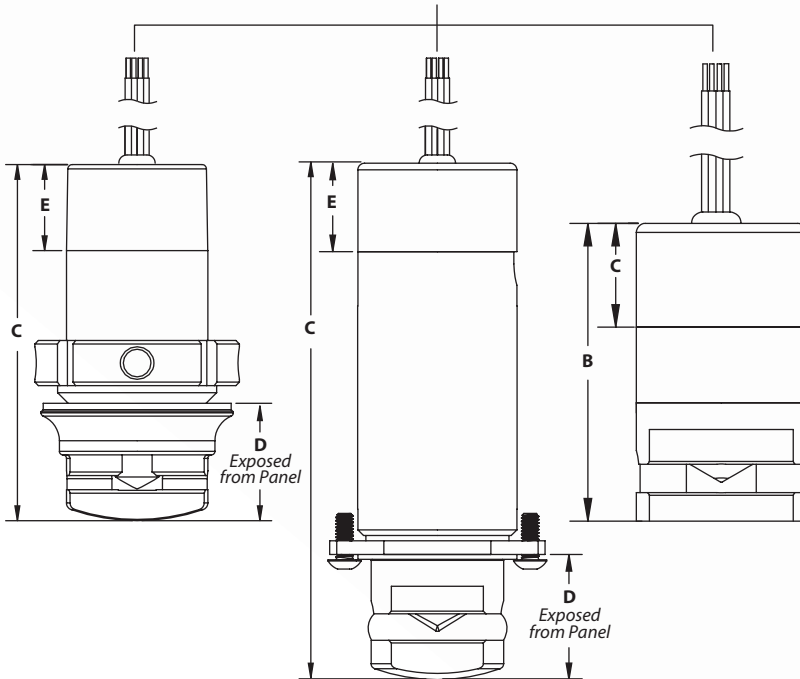


NPV

Standard Pinch Valves

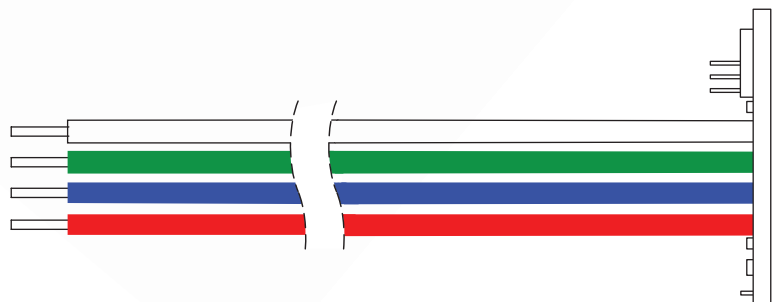


13" (330.2) Wire Leads, Stripped & Tinned



WIRING DIAGRAM

	State Feedback—12 or 24 VDC (valve VDC)
	Ground
	Trigger—Hit Hold triggering input, 3.3-24 VDC
	Valve Voltage—12 or 24 VDC depending on valve coil selected



DIMENSIONS, NPV-P (Panel Mounted Pinch Valves)

Model	2	3	4	7
A	1.45" dia. (36.8)	1.70" dia. (43.1)	1.94" dia. (49.4)	1.75" dia. (44.5)
B	1.00" dia. (25.4)	1.25" dia. (31.7)	1.50" dia. (38.1)	1.50" dia. (38.1)
C	2.63" (66.9)	3.04" (77.2)	3.42" (87.0)	5.33" (125.4)
D	0.83" (21.2)	1.04" (26.4)	1.32" (33.6)	1.18" (30.0)
E	0.72" (18.3)	0.72" (18.3)	0.84" (20.8)	0.84" (20.8)

DIMENSIONS, NPV (Standard 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)
C	0.72" (18.3)	0.72" (18.3)	0.84" (20.8)

Dimensions shown are in inches (millimeters listed in parentheses) and are for reference purposes only.

ORDERING INFORMATION

F	P	V		L	-		-		-	
Model				Function				Valve Voltage		SF Voltage
2	1.00" dia., 1.5 W			1O 2-Way Normally-Open				12 12 VDC		1 12 VDC
3	1.25" dia., 4.2 W			1C 2-Way Normally-Closed				24 24 VDC		2 24 VDC
4	1.50" dia., 7.2 W									
7	1.50" dia., 72 W			Mount						
				(blank) Standard						
				P Panel Mount						

Refer to NPV data sheet or online configurator for tubing info

Example Part Number:

FPV2L-1O-03-12-1

Air Engineering and Supply

7521 Commerce Lane NE, PO Box 32397, Fridley, MN 55432 | 800.332.4181 | 612.332.4181 | www.airengr.com