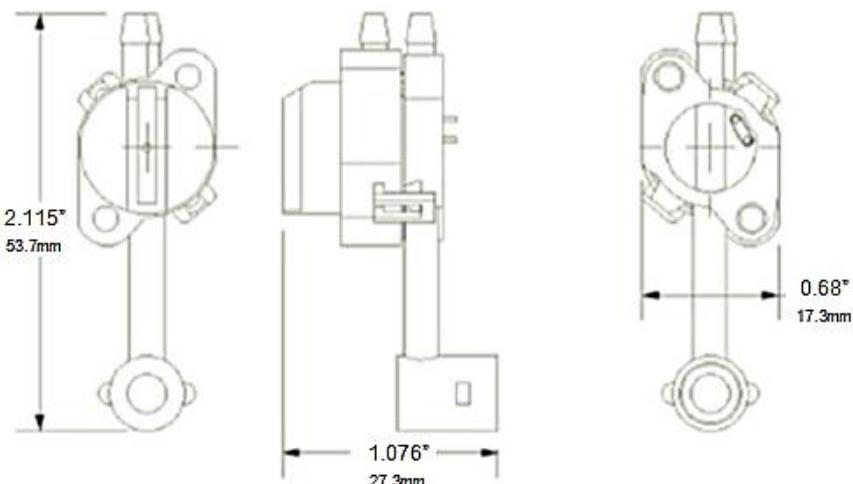


CUSTOM SOLENOIDS & ACTUATORS

Kendrion Mishawaka

3-Way Pneumatic Valve

The 3-Way Pneumatic Valve (3PV) was designed with battery performance and speed in mind. The 3PV uses stamped components to keep size and cost down while reducing the moving mass of the armature. The result is cycle times in the 1 millisecond range. The Valve was designed for use with a 9V battery and Pulse Width Modulation (PWM) to improve battery life. The plastic injection molded valve components integrated a previously separate component that simplified the assembly process and reduced the system cost. The Valve is Printed Circuit Board (PCB) mountable. The valve was tested beyond 20,000,000 cycles.



Technical Specification

Operating Pressure	0-250 psi (0-17.2 bar)
Flow	0.05 cfm (1.42 slpm) max.
Voltage	5-9 V DC Battery Operated
Response Time	Less than 1ms
Power Consumption	Per Customer Specification
Applications / Comments	Paintball Markers Pneumatic Actuated Applications 3-Way Operations 25,000 cycles @ 180 psi (12.4 bar), 9V battery Qualified with CO ₂ / Air / Nitrogen

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