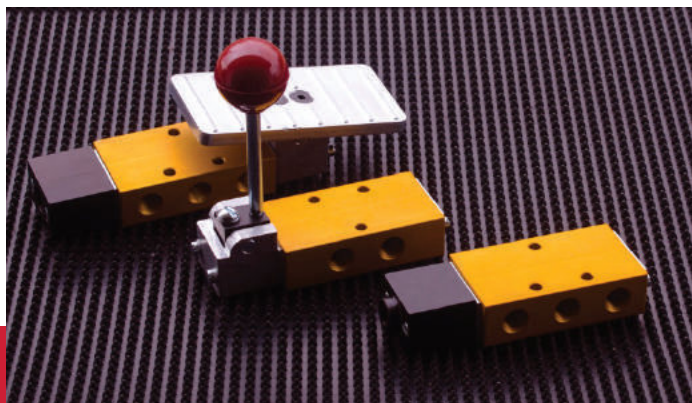




AIR-MITE PNEUMATIC VALVES

Air-Mite offers two main types of pneumatic valves- V-Series and Miniature Valves. Our V-Series Valves are available in both 3-way and 4-way configurations for the control of single and double-acting cylinders. These valves are available with a variety of different operators- manual, mechanical, solenoid, or air-piloted. The unique design of our valves allows for custom designs to be easily created to adapt to your special needs. If you don't see what you need in our catalog, please contact us as we most likely can make something for your application.

Air-Mite's Miniature valves line of small 3-way poppet and spool valves offer a variety of manual and mechanical operators in a space-saving design.

FEATURES AND OPTIONS

Anodized Aluminum Body - one basic design permits use of different operators precision ground spools, shifting spool design, manual, solenoid, or pilot operated. 3 position available for some valves Buna N seals-standard Viton seals-available. Prelubed with Magnalube G for longevity in cycling Safety Foot Guard-FG300-recommended Operating Pressures: Air- $\frac{1}{8}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ " models-150 psi, $\frac{1}{2}$ " model-120 psi Hydraulic - all models-300 psi

Cv Factors: 3-way: $\frac{1}{8}$ " & $\frac{1}{4}$ " npt-1.8 $\frac{3}{8}$ " & $\frac{1}{2}$ " npt-2.9
4-way: $\frac{1}{8}$ " & $\frac{1}{4}$ " npt-1.8 $\frac{3}{8}$ " & $\frac{1}{2}$ " npt-2.9

ORDERING INFORMATION

V SERIES - MODEL NUMBERS (4 Digits)

1st Digit	2nd Digit	3rd & 4th Digit
Type	Port Size	Actuator/Return-2 position
V3 = 3-Way	1 = $\frac{1}{8}$ " npt	00 = Basic/Spring
V4 = 4-Way-2 pos.	2 = $\frac{1}{4}$ " npt	01 = Palm Button/Manual
V5 = 4 Way-2 pos./Dual Inlet	3 = $\frac{3}{8}$ " npt	02 = Palm Button/Spring
V4...3P = 4 Way-3 pos.	4 = $\frac{1}{2}$ " npt	03 = Handball/Manual
V5...3P = 4 Way-3 pos.		04 = Handball/Spring
		06 = Finger Tip/Spring
		08 = Pedal/Spring
		09 = Treadle/Manual
		10 = Treadle/Spring
		11 = Roller Cam/Spring
		12 = Ball Cam/Spring
		15 = Double Pilot
		16 = Single Pilot

Example: V4210 = 4-Way, 2 pos. $\frac{1}{4}$ " single inlet treadle w/spring return.

Note: Modifications & some custom valve numbers can be created by combining primary model numbers with many of the below noted primary modifications.

PRIMARY MODIFICATIONS - 2 & 3 POSITION VALVES

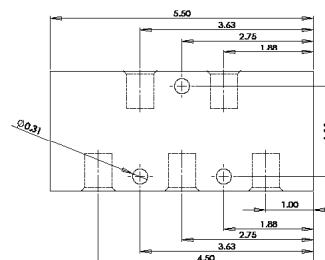
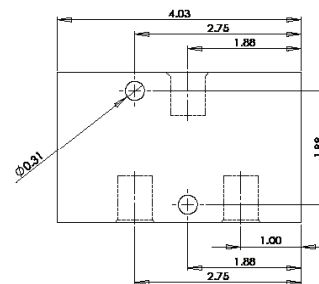
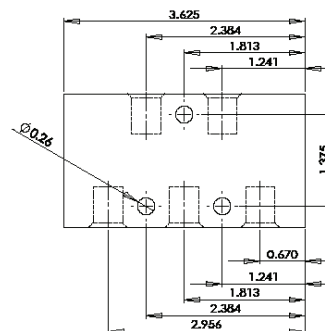
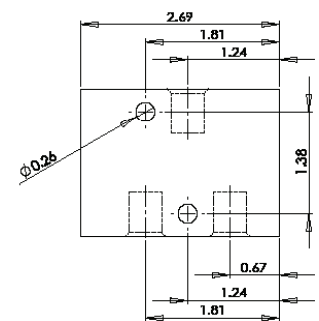
Manual Control Valve Suffixes - 2 Position Valves

A = Special mtg holes	LP = Low pressure pilot	S = Selector valve
D = Detent	NO = Normally open	T = Light duty spring
G = Heavy duty spring	P = Pilot return	V = Viton seals
H = Hydraulic (Low Pressure)	PM = Panel mount	X = X201 mufflers in ports
HD = Heavy duty actuator	R = Diverter valve	Y = Shorter hand ball assy. 3 OAL

Manual Control Valve Suffixes 3 Position Valves

-To order 3 position valves, add the following suffix to 4-way, 2 pos. primary valve numbers

3P = 3 position, closed center, spring to center	3PD = 3 position, closed center, detented
3PO = 3 position, open center, spring to center	3POD = 3 position, open center, detented

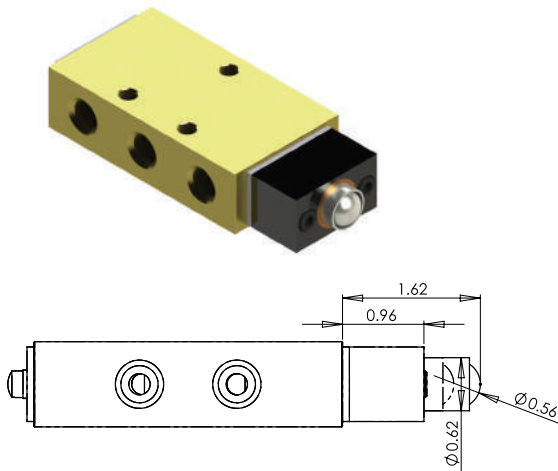




Ball Cam Control Valve

Features Include:

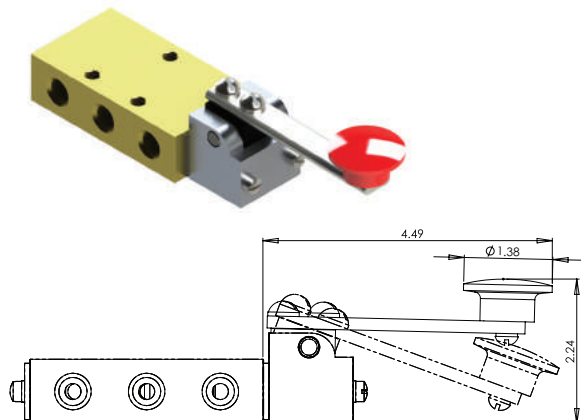
- Mechanically operated by ball plunger
- 3-way or 4-way configuration
- $\frac{1}{8}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", or $\frac{1}{2}$ " port sizes
- Available as 2-position spring-return or 2-position pilot return



Finger Lever Control Valve

Features Include:

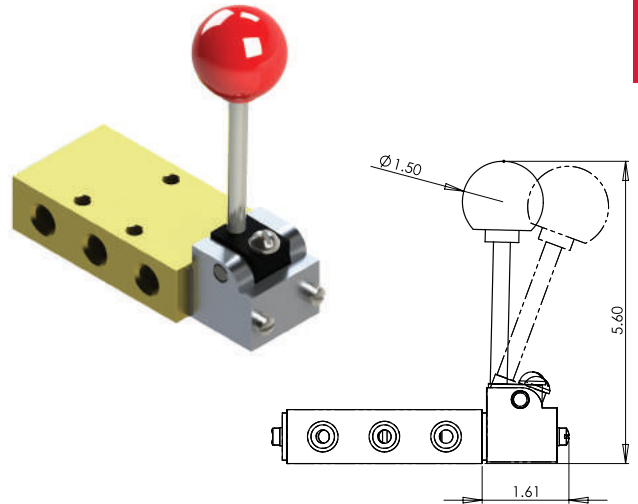
- Manually operated by finger lever
- 3-way or 4-way configuration
- $\frac{1}{8}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", or $\frac{1}{2}$ " port sizes
- Available as 2-position spring-return



Hand Ball Control Valve

Features Include:

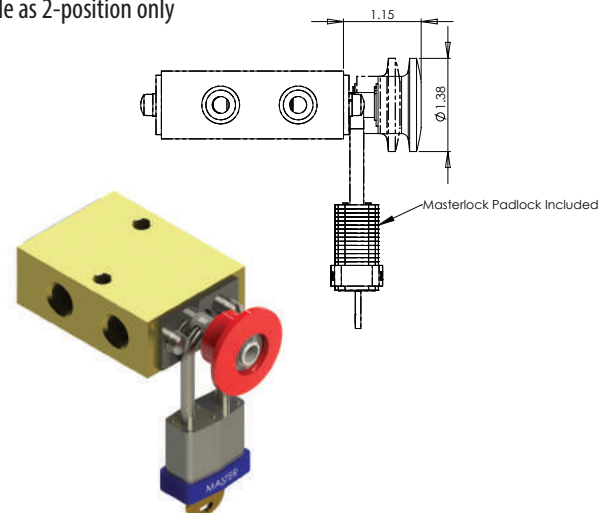
- Manually operated by hand lever
- 3-way or 4-way configuration
- $\frac{1}{8}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", or $\frac{1}{2}$ " port sizes
- Available as 2-position, 2-position spring-return, 3-position detented, or 3-position spring to center
- Open or closed center for 3-position



Lockout Control Valve

Features Include:

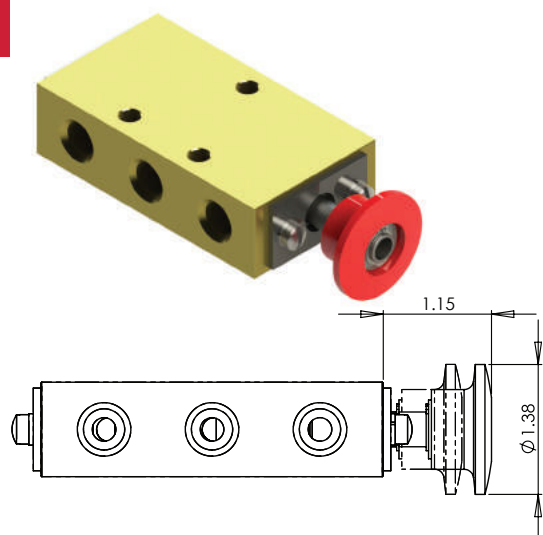
- Manually operated by palm button
- Can be locked out in off position
- Includes padlock
- 3-way or 4-way configuration
- $\frac{1}{8}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", or $\frac{1}{2}$ " port sizes
- Available as 2-position only



Palm Button Control Valve

Features Include:

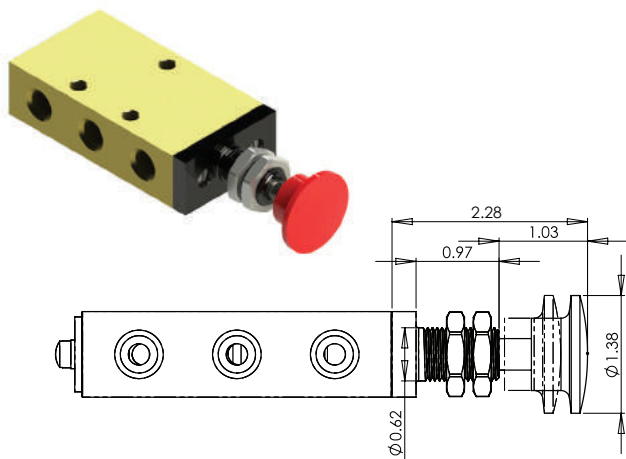
Manually operated by palm button
 3-way or 4-way configuration
 1/8", 1/4", 3/8", or 1/2" port sizes
 Available as a 2-position, 2-position spring-return, 3-position detented, 3-position spring to center
 Open or closed center for 3-position



Panel Mount Control Valve

Features Include:

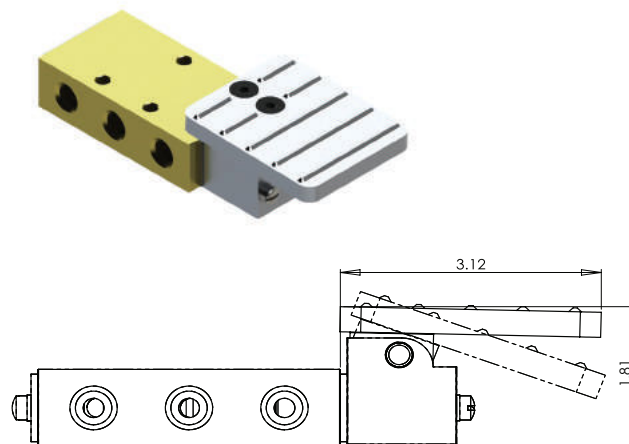
Manually operated by palm button
 Allows for mounting through a panel
 3-way or 4-way configuration
 1/8", 1/4", 3/8", or 1/2" port sizes
 Available as 2-position only



Pedal Control Valve

Features Include:

Foot operated by pedal
 3-way or 4-way configuration
 1/8", 1/4", 3/8", or 1/2" port sizes
 Available as 2-position spring-return
 Safety Foot Guard- FG300 is strongly recommended to prevent accidental tripping of valve



Pilot Control Valve

Features Include:

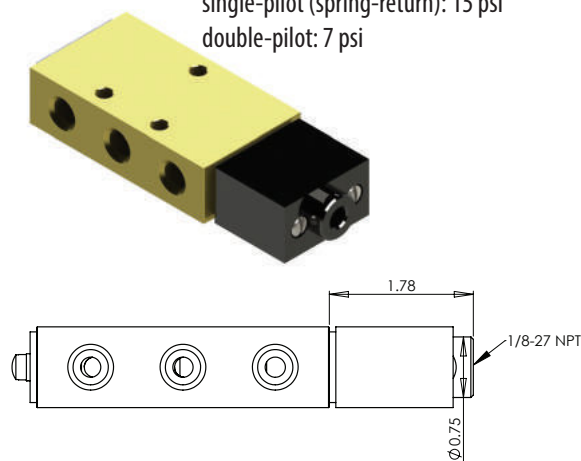
Pilot operated by air pressure
 3-way or 4-way configuration
 1/8", 1/4", 3/8", or 1/2" port sizes
 Available as a 2-position single-pilot (spring-return) or 2-position double-pilot
 Minimum Operating Pressures:

Standard Pilot

single-pilot (spring-return): 25 psi
 double-pilot: 10 psi

Low Pressure Pilot

single-pilot (spring-return): 15 psi
 double-pilot: 7 psi

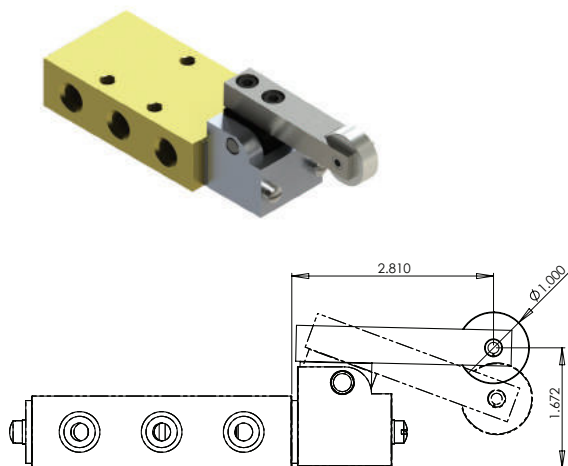




Roller Cam Control Valve

Features Include:

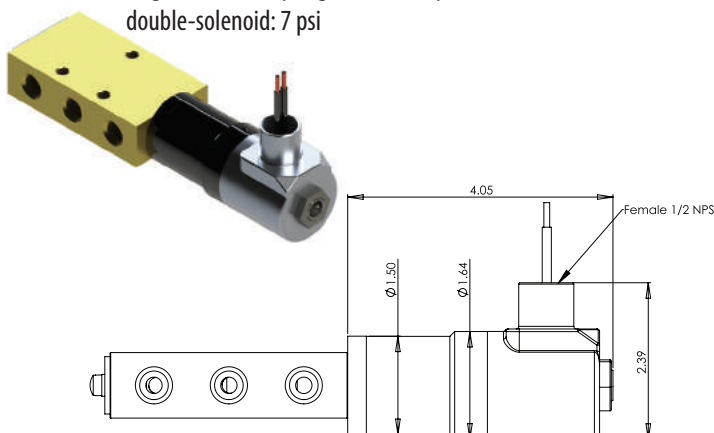
- Mechanically operated by roller cam
- 3-way or 4-way configuration
- 1/8", 1/4", 3/8", or 1/2" port sizes
- Available as 2-position spring-return or 2-position pilot-return



Solenoid Control Valve

Features Include:

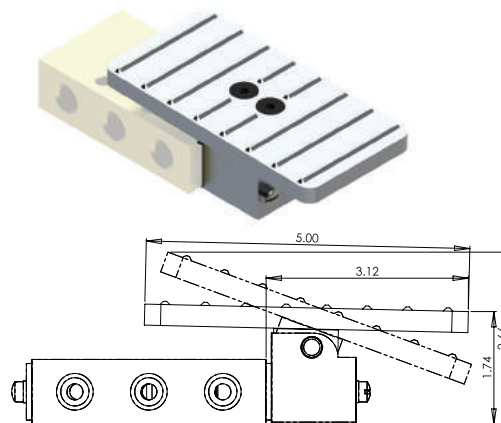
- Electrically operated by solenoid
- Variety of voltages available from stock
- Valves are internally piloted- no secondary air supply is required
- Explosion proof operators optional
- 3-way or 4-way configuration
- 1/8", 1/4", 3/8", or 1/2" port sizes
- Available as a 2-position single-solenoid (spring-return) or 2-position double-solenoid
- Minimum Operating Pressures:
 - single-solenoid (spring-return): 15 psi
 - double-solenoid: 7 psi



Treadle Control Valve

Features Include:

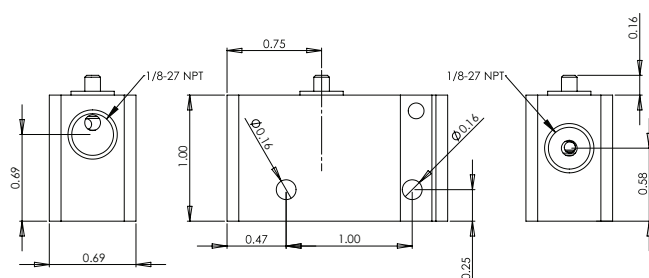
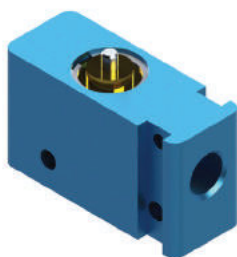
- Foot operated by pedal that allows motion both backwards and forwards
- 3-way or 4-way configuration
- 1/8", 1/4", 3/8", or 1/2" port sizes
- Available as a 2-position, 3-position detented, 3-position spring to center
- Open or closed center for 3-position
- Safety Foot Guard- FG300 is strongly recommended to prevent accidental tripping of valve



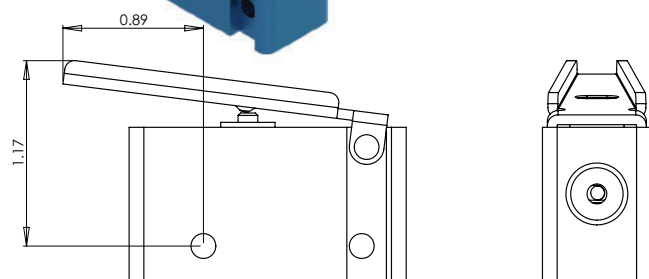
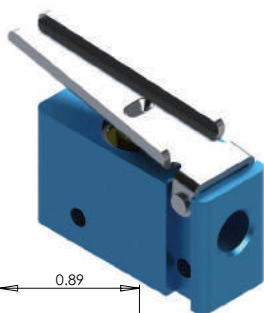
WARNING: All hand and foot operated valves should be guarded to prevent accidental or unintended operation in accordance with OSHA Section 1910.217 and AIS Section B11.1

MV2-A Miniature Valve**Features Include:**

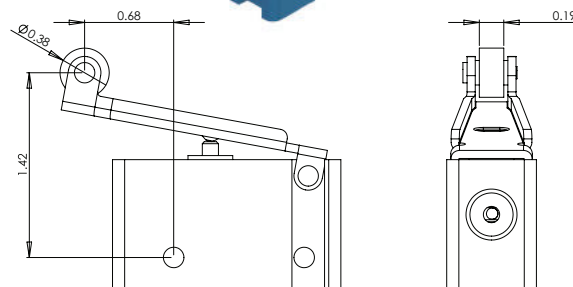
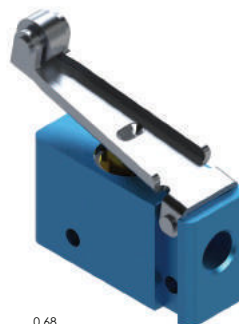
Basic valve with no operator
 $\frac{1}{8}$ " diameter push button
 Spring return
 3-way configuration
 $\frac{1}{8}$ " port size
 Can be used normally open or normally closed

**MV2-B Miniature Valve****Features Include:**

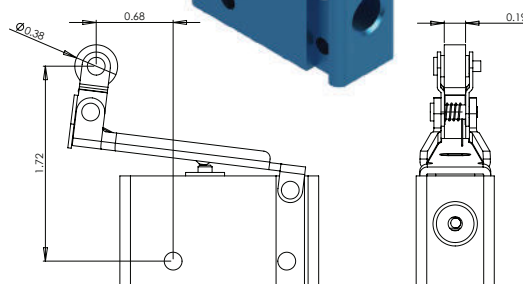
Lever operator
 $1\text{--}\frac{7}{8}$ " long steel lever
 Spring return
 3-way configuration
 $\frac{1}{8}$ " port size
 Can be used normally open or normally closed

**MV2-C Miniature Valve****Features Include:**

Roller lever operator
 $\frac{3}{8}$ " diameter roller on lever
 Spring return
 3-way configuration
 $\frac{1}{8}$ " port size
 Can be used normally open or normally closed

**MV2-D Miniature Valve****Features Include:**

One-way roller lever operator
 $\frac{3}{8}$ " diameter roller on lever
 Valve only actuates from one direction
 Spring return
 3-way configuration
 $\frac{1}{8}$ " port size
 Can be used normally open or normally closed

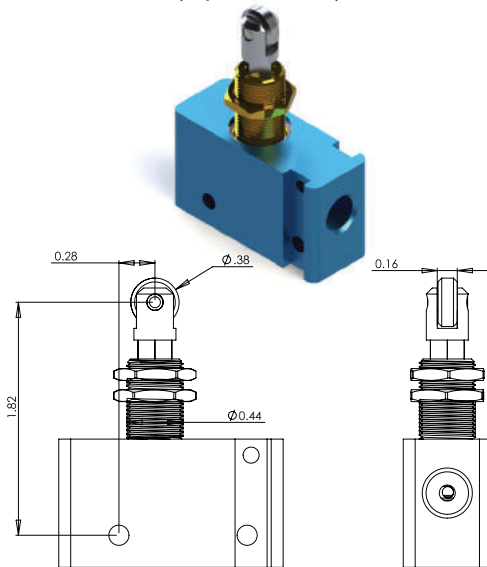




MV2-E Miniature Valve

Features Include:

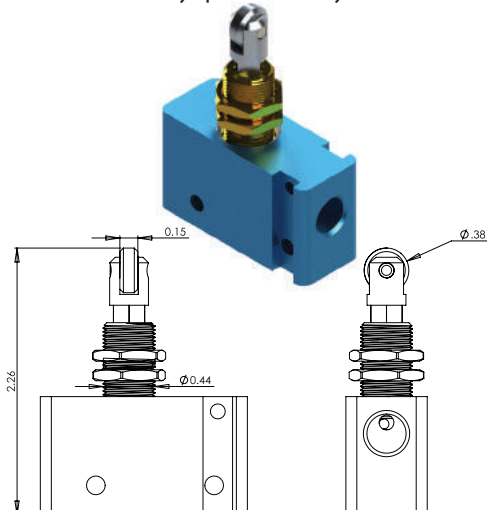
- Roller plunger operator
- $\frac{3}{8}$ " diameter roller on plunger
- Roller is oriented parallel to valve body
- Spring return
- Can be mounted through a panel
- 3-way configuration
- $\frac{1}{8}$ " port size
- Can be used normally open or normally closed



MV2-F Miniature Valve

Features Include:

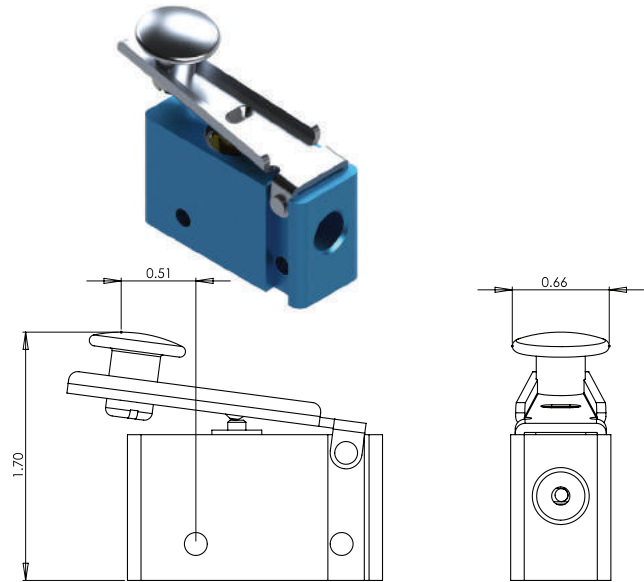
- Roller plunger operator
- $\frac{3}{8}$ " diameter roller on plunger
- Roller is oriented perpendicular to valve body
- Spring return
- Can be mounted through a panel
- 3-way configuration
- $\frac{1}{8}$ " port size
- Can be used normally open or normally closed



MV2-G Miniature Valve

Features Include:

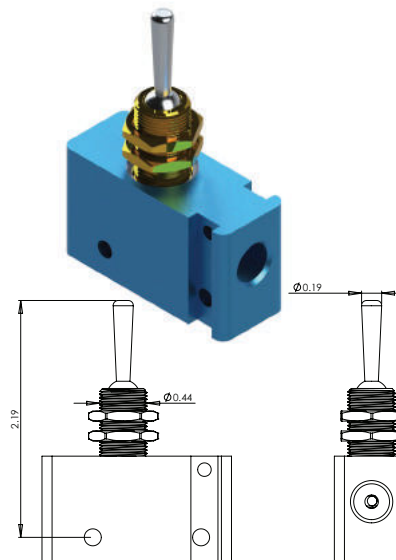
- Fingertip lever operator
- Finger button mounted on lever
- Spring return
- 3-way configuration
- $\frac{1}{8}$ " port size
- Can be used normally open or normally closed



MV2-H Miniature Valve

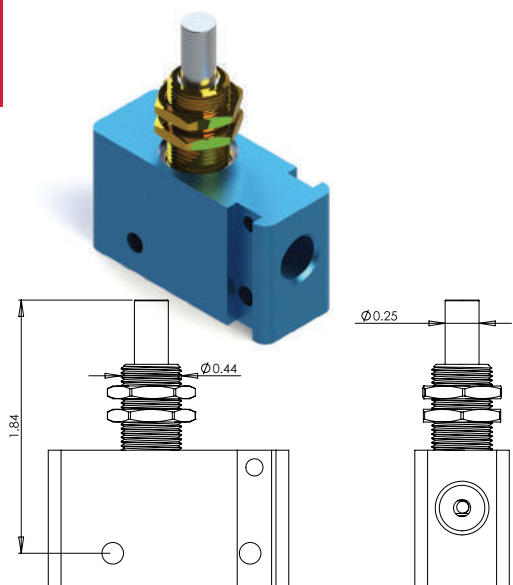
Features Include:

- Toggle operator
- Toggle can be operated in any direction
- Can be mounted through a panel
- 3-way configuration
- $\frac{1}{8}$ " port size
- Can be used normally open or normally closed

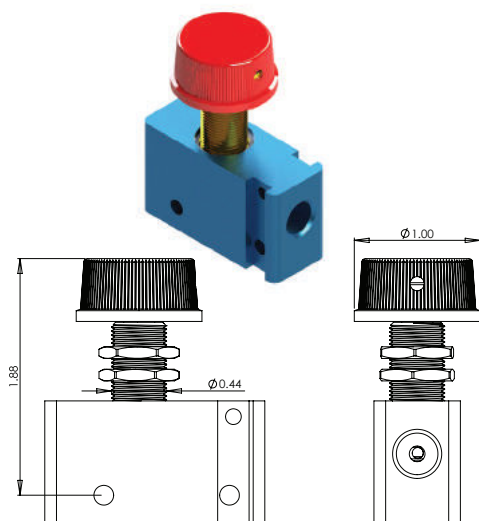


MV2-J Miniature Valve**Features Include:**

- Plunger operator
- $\frac{1}{32}$ " diameter steel plunger
- Spring return
- Can be mounted through a panel
- 3-way configuration
- $\frac{1}{8}$ " port size
- Can be used normally open or normally closed

**MV2-K Miniature Valve****Features Include:**

- Knob operator
- 1" diameter plastic knob mounted on plunger
- Spring return
- Can be mounted through a panel
- 3-way configuration
- $\frac{1}{8}$ " port size
- Can be used normally open or normally closed

**MV2-L Miniature Valve****Features Include:**

- Toggle operator
- Toggle can only be operated in a straight line
- Can be mounted through a panel
- 3-way configuration
- $\frac{1}{8}$ " port size
- Can be used normally open or normally closed

