



## 2-WAY STEM VALVES



### 2-Way Stem Valves

2-way valves are the simplest pneumatic component – their function is merely to turn an air supply on or off. They may be

compared to a light switch; in the “ON” position elec-

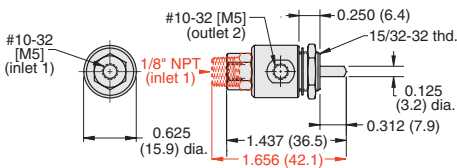
tricity flows from supply to the light, and in the “off” position the electrical current flow is stopped. 2-way stem valves may have a poppet or spool, and, by depressing the stem, a Normally-Closed (NC) valve is opened and a Normally-Open (NO) valve is closed. A variety of actuators may be attached to the valve such as roller cam followers, manual push buttons or pilot actuators; see the Valve Actuators section of this catalog.

**Medium:** Air, Water or Oil

**Materials:** Brass body, Buna-N seals, stainless steel stem and spring

**Stem Travel:** 1/8" (3.2)

### Normally-Closed Poppet 2-Way Valves



**Input Pressure:** 300 psig/21 bar max.

**Air Flow:** 4.0 scfm @ 50 psig; 6.8 scfm @ 100 psig; 170 l/min @ 6 bar

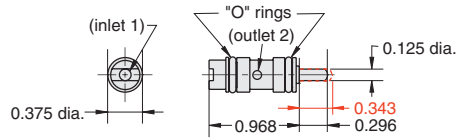
**Force For Full Stem Travel:** 24 oz. nominal

**Mounting:** 15/32-32 thread. Nut and lockwasher furnished.



Part No.	Description
MAV-2	2-Way Normally-Closed Valve, #10-32
MAV-2-M5	2-Way Normally-Closed Valve, M5
MAV-2P	2-Way Normally-Closed Valve, 1/8" NPT

### Miniature Cartridge Valves



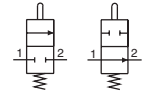
**Input Pressure:** 300 psig

**Air Flow:** 3.0 scfm @ 50 psig; 6.0 scfm @ 100 psig

**Force For Full Stem Travel:** 24 oz. nominal

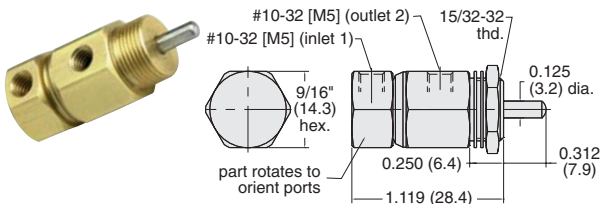
**Mounting:** Inserts into a 3/8" bore (0.375" ±0.001")

**Note:** See page 113 for retaining details



Part No.	Description
MAV-2C	2-Way Normally-Closed Cartridge Valve
MAVO-2C	2-Way Normally-Open Cartridge Valve

### N.C. Poppet Valves with Rotatable Inlet



**Input Pressure:** 300 psig/21 bar max.

**Air Flow:** 4.0 scfm @ 50 psig; 6.8 scfm @ 100 psig; 170 l/min @ 6 bar

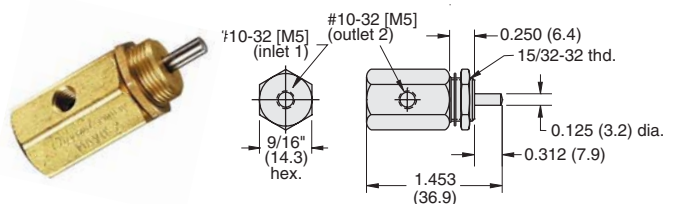
**Force For Full Stem Travel:** 24 oz. nominal

**Mounting:** 15/32-32 thread. Nut and lockwasher furnished.



Part No.	Description
MAV-2R	2-Way Poppet Valve with Rotatable Inlet, #10-32
MAV-2R-M5	2-Way Poppet Valve with Rotatable Inlet, M5

### Normally-Open Spool Valves



**Input Pressure:** 150 psig/10 bar max.

**Air Flow:** 6.0 scfm @ 50 psig; 10 scfm @ 100 psig; 245 l/min @ 6 bar

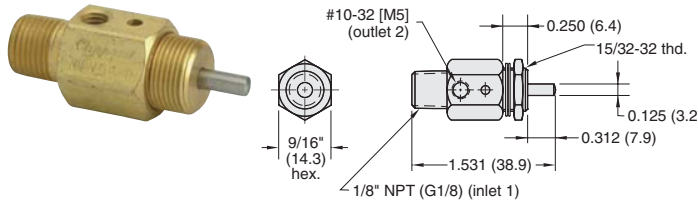
**Force For Full Stem Travel:** 32 oz. nominal

**Mounting:** 15/32-32 thread. Nut and lockwasher furnished.



Part No.	Description
MAVO-2	2-Way Normally-Open Spool Valve, #10-32
MAVO-2-M5	2-Way Normally-Open Spool Valve, M5

## Normally-Open Spool Valve



**Input Pressure:** 150 psig max.

**Air Flow:** 6 scfm @ 50 psig; 100 scfm @ 100 psig

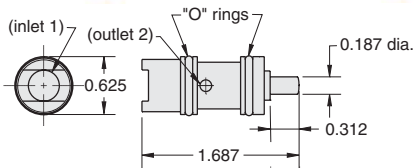
**Force For Full Stem Travel:** 32 oz. nominal

**Mounting:** 15/32-32 thread. Nut and lockwasher furnished.



Part No.	Description
MAVO-2P	Normally-Open Spool Valve

## J-Series Cartridge Valves



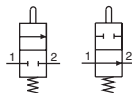
**Input Pressure:** 300 psig

**Air Flow:** 11 scfm @ 50 psig; 22 scfm @ 100 psig

**Force For Full Stem Travel:** 24 oz. nominal

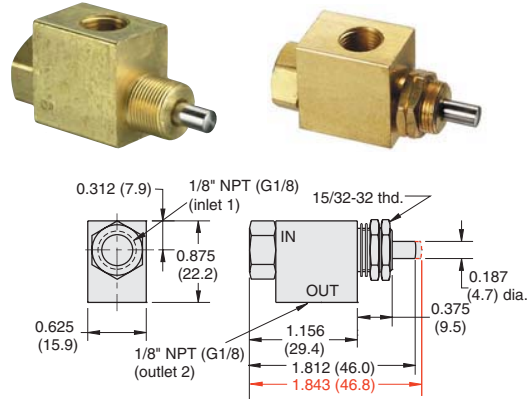
**Mounting:** Inserts into a 5/8" bore (0.625" ±0.001)

**Note:** See page 118 for mounting details



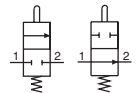
Part No.	Description
MJV-2C	Normally-Closed Cartridge Valve
MJVO-2C	Normally-Open Cartridge Valve

## J-Series Miniature Poppet Valves



**Input Pressure:** MJV-2/MJV-2-MG - 300 psig/21 bar max.  
MJVO-2/MJVO-2-MG - 150 psig/10 bar max.

**Air Flow:** MJV-2/MJV-2-MG - 14.0 scfm @ 50 psig;  
25 scfm @ 100 psig; 600 l/min @ 6 bar  
MJVO-2/MJVO-2-MG - 7 scfm @ 50 psig;  
12 scfm @ 100 psig; 600 l/min @ 6 bar



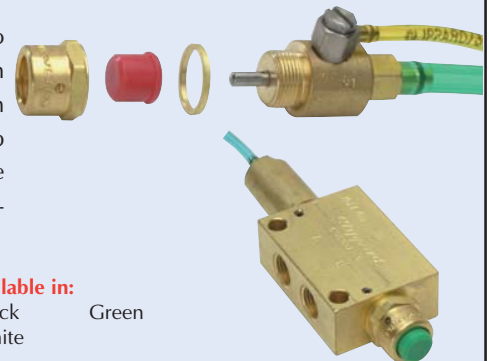
**Force For Full Stem Travel:** MJV-2/MJV-2-MG - 38 oz. nominal  
MJVO-2/MJVO-2-MG - 36 oz. nominal

**Mounting:** 15/32-32 thread. Nuts and lockwashers furnished.

Part No.	Description
MJV-2	Normally-Closed Poppet Valve, 1/8" NPT
MJV-2-MG	Normally-Closed Poppet Valve, G1/8
MJVO-2	Normally-Open Spool Valve, 1/8" NPT
MJVO-2-MG	Normally-Open Spool Valve, G1/8

## Captivated Push Buttons

The small compact size make the push buttons adaptable to panel mounting. Unlike set screw retained buttons, the screw-on design will not allow the button to fall off. Designed to work with Clippard MAV, MJV, and FV series valves, these buttons also help protect the valve by preventing over-traveling of the stem and the potential for side-load on the valve. See page 143 for more information.



**Button Housing Available in:**

Black Chrome Electroless  
Brass Nickel Plated

**Button Colors Available in:**

Yellow Black Green  
Red White