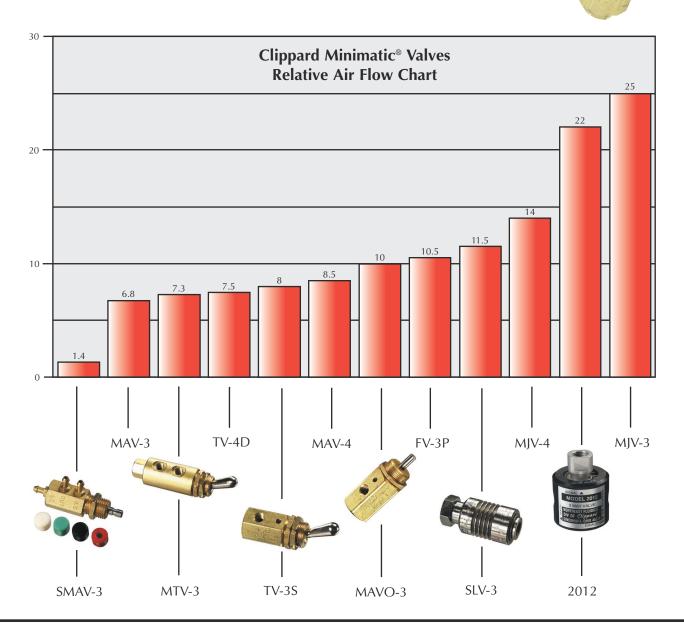


Every air system is unique... and Clippard has the air valve you need. Clippard control valves are available in poppet or spool design; 2, 3, or 4-way functions, in sizes from #3-56 and #10-32 through 1/8 NPT ports; and for pressures to 300 PSIG. They are available with solenoid, air pilot, manual and mechanical actuators. Mounting styles include inline, panel mount, manifold mount or clearance holes for mounting screws.

When designing a pneumatic system, choose the proper size for each component. A valve of insufficient capacity may cause an entire system to operate slower than expected. Conversely, utilizing a valve which possesses greater capacity than is actually required results in needless size and often leads to excessive speed, impact, wear, and air consumption.

The chart below shows the variety of valve flows available from Clippard. It can be used as a guide to determine the proper valve for an actual application.



CONTROL VALVES



Clippard Minimatic[®] miniature valves and associated products have evolved into a widely used system of fluid power control devices, known for quality, value and performance.

Over the past five decades, a diverse range of industries in the U.S. and throughout the world have come to rely on Minimatics® to control machines, systems, and processes through an unlimited list of applications. Clippard quality in design, engineering, manufacturing, as well as an expansive product offering, make Minimatics® the preferred choice for miniature and subminiature pneumatic applications.



Recognized as the original and most complete line of miniature fluid power components, Clippard's Minimatic® line is available across the globe through a network of fully-trained, stocking distributors. Clippard and our distributors stand ready to provide expert application assistance, support, and technical answers, to help you achieve the highest level of performance in your system.

Options

Nickel Plating

This option provides a bright finish on brass parts for decorative purposes that also protects the surface from corrosion and tarnishing. It has a nominal thickness of .0015", and does not affect the fit or function of the part.

-ENP Electroless Nickel Plating

This option provides a low luster finish on brass parts for decorative purposes that also protects the surface from corrosion and tarnishing. It has a nominal thickness of .0002", and does not affect the fit or function of the part.

-V Viton

This option replaces the standard Buna-N seals with Viton seals either for high temperature (up to + 400°F) applications or those that require Viton for chemical

compatibility.

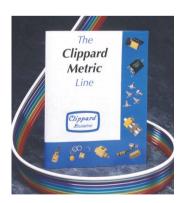
-M5

M5 metric ports

-MG

G 1/8 metric ports

Metric Catalog



Many of the most popular Clippard valves and fittings are available with metric ports. The Minimetric® catalog is a 90 page color catalog that has been drilled to fit in the standard Clippard three ring binder, as well as the four ring European binder. Divided into five sections, the Minimetric® catalog details the complete line of Clippard Metric products and is available from your local distributor.



#10-32 (inlet 1)

.625

Materials: brass body, Buna-N seals, stainless steel stem & spring Options: see page 105

50°

MTV-2

Two position 2-way poppet toggle valve

#10-32 (outlet 2)

1.843

15/32-32 thd

-.375

15/32-32 thd.

.375



Medium: air, water, or oil

Arc of Travel: 50°

Input Pressure: 300 psig max.

Air Flow: @50 psig - 4.0 SCFM @100 psig - 7.3 SCFM

Force For Full Stem Travel: 16 oz. nom.

Mounting: 15/32-32 male thread Nut and lockwashers furnished

Ports: Inlet - 10-32, Outlet - 10-32

Temperature Range: 32° to 230° F



MTV-2P

Two position 2-way poppet toggle valve with 1/8 NPT inlet

1/8 NPT (inlet 1)

7/16 hex

#10-32 (outlet 2)



travel

Medium: air, water, or oil

Arc Of Travel: 50°

Input Pressure: 300 psig max.

Air Flow: @50 psig - 4.0 SCFM

@100 psig - 7.3 SCFM

Force For Full Stem Travel: 16 oz. nom.

Mounting: 15/32-32 thread Nut and lockwashers furnished

Ports: Inlet - 1/8 NPT, Outlet - 10-32

Temperature Range: 32° to 230° F



TV-2S

.625 dia. 2.078

Two position 2-way spool toggle valve

Medium: air, water, or oil

Arc Of Travel: 60°

Input Pressure: 150 psig max.

Air Flow: @50 psig - 4.5 SCFM @100 psig - 8.0 SCFM

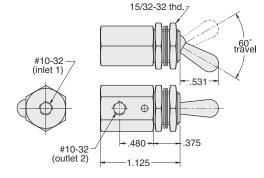
Force For Full Stem Travel: 12 oz. nom.

Mounting: 15/32-32 thread Nut and lockwashers furnished

Ports: Inlet - 10-32, Outlet - 10-32

Temperature Range: 32° to 230° F





TV-2SF

Two position 2-way spool toggle valve with plastic toggle 15/32-32 thd.-





Medium: air, water, or oil

Arc Of Travel: 60°

Input Pressure: 150 psig max. Air Flow: @50 psig - 4.5 SCFM @100 psig - 8.0 SCFM

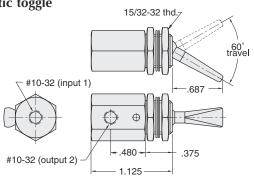
Force For Full Stem Travel: 12 oz. nom.

Mounting: 15/32-32 thread Nut and lockwashers furnished Ports: Inlet - 10-32, Outlet - 10-32

Toggle: Plastic

Temperature Range: 32° to 230° F



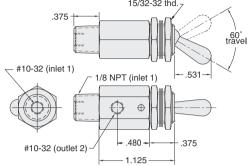




Options: see page 105 Materials: brass body, Buna-N seals, stainless steel stem & spring

TV-2SP





Medium: air, water, or oil

Arc Of Travel: 60°

Input Pressure: 150 psig max.

Air Flow: @50 psig - 4.5 SCFM @100 psig - 8.0 SCFM

Force For Full Stem Travel: 12 oz. nom.

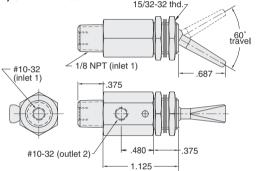
Mounting: 15/32-32 thread Nut and lockwashers furnished

Ports: Inlet - 1/8 NPT, Outlet - 10-32

Temperature Range: 32° to 230° F

TV-2SFP

Two position 2-way spool toggle valve with 1/8 NPT inlet



Medium: air, water, or oil

Arc Of Travel: 60°

Input Pressure: 150 psig max. **Air Flow:** @50 psig - 4.5 SCFM

@100 psig - 8.0 SCFM

Force For Full Stem Travel: 12 oz. nom.

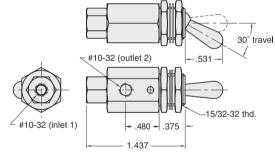
Mounting: 15/32-32 thread Nut and lockwashers furnished Ports: Inlet - 1/8 NPT, Outlet - 10-32

Toggle: Plastic

Temperature Range: 32° to 230° F

TV-2M

Two position 2-way poppet toggle valve with momentary actuation



Medium: air, water, or oil

Arc Of Travel: 30°

Input Pressure: 150 psig max.

Air Flow: @50 psig - 4.5 SCFM @100 psig - 8.0 SCFM

Force For Full Stem Travel: 12 oz. nom.

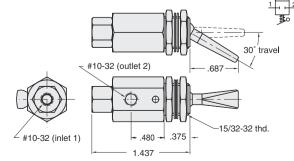
Mounting: 15/32-32 thread Nut and lockwashers furnished

Ports: Inlet - 10-32, Outlet - 10-32 Temperature Range: 32° to 230° F

TV-2MF



Two position 2-way poppet toggle valve with plastic toggle and momentary actuation



Medium: air, water, or oil

Arc Of Travel: 30°

Input Pressure: 150 psig max.

Air Flow: @50 psig - 4.5 SCFM
 @100 psig - 8.0 SCFM

Force For Full Stem Travel: 12 oz. nom.

Mounting: 15/32-32 thread Nut and lockwashers furnished Ports: Inlet - 10-32, Outlet - 10-32

Toggle: Plastic

Temperature Range: 32° to 230° F

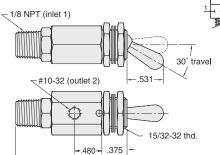


2-WAY MOMENTARY TOGGLE VALVES

Options: see page 105 Materials: brass body, Buna-N seals, stainless steel stem & spring

TV-2MP

Normally closed 2-way toggle with momentary actuation



Medium: air, water, or oil

Input Pressure: 150 psig max.

Air Flow: @50 psig - 4.0 SCFM @100 psig - 6.8 SCFM

Force For Full Stem Travel: 12 oz. nom.

Mounting: 15/32-32 thd. nut and lockwasher furnished Ports: Inlet 1/8 NPT, Outlet 10-32

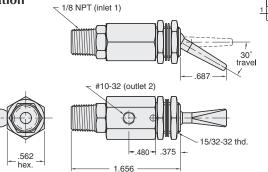
Temperature Range: 32° to 230° F

TV-2MFP

Normally closed 2-way toggle with momentary actuation

1 656

9/16



Input Pressure: 150 psig max.

Medium: air, water, or oil

Air Flow: @50 psig - 4.0 SCFM @100 psig - 6.8 SCFM

Force For Full Stem Travel: 12 oz. nom.

Mounting: 15/32-32 thd. nut and lockwasher furnished

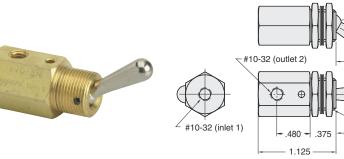
Ports: Inlet 1/8 NPT, Outlet 10-32

Toggle: plastic

Temperature Range: 32° to 230° F

TVO-2M

Normally open 2-way toggle valve manifold mount with momentary actuation





30° travel

531

15/32-32 thd

Input Pressure: 150 psig max. **Air Flow:** @50 psig - 4.5 SCFM

@100 psig - 8.0 SCFM

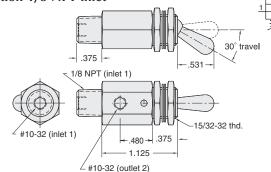
Force For Full Stem Travel: 12 oz. nom.

Mounting: 15/32-32 thd. nut and lockwasher furnished Ports: Inlet 10-32, Outlet 10-32 Temperature Range: 32° to 230° F

TVO-2MF: same as TVO-2M except with a plastic toggle

TVO-2MP

Normally open 2-way toggle with momentary actuation 1/8 NPT inlet



Medium: air, water, or oil Input Pressure: 150 psig max.

Force For Full Stem Travel: 12 oz. nom.

Mounting: 15/32-32 thd. nut and lockwasher furnished Ports: Inlet 1/8 NPT, Outlet 10-32 Temperature Range: 32° to 230° F

TVO-2MFP: same as TVO-2MP except with a plastic toggle



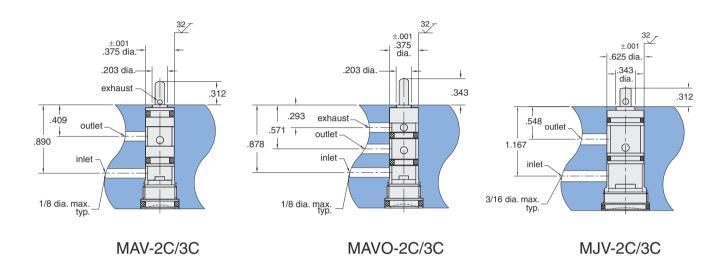
Options: see page 105

Materials: brass body, Buna-N seals, stainless steel stem & spring

CARTRIDGE VALVE MOUNTING

Clippard miniature cartridge valves offer the user flexibility in the application of 2-way and 3-way normally open or normally closed valves. Two sizes are provided: to fit either

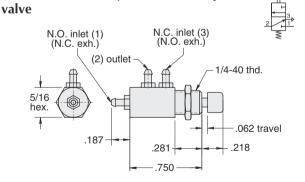
a .375" diameter bore or .625" diameter bore. They are used in Clippard heavy duty limit switches and are suitable for pneumatic tools and manifolds or for any use where a valve needs to be built in.



SUB-MINIATURE 3-WAY VALVES



SMAV-3



Sub-miniature 3-way N.C. or N.O. spool

Medium: air

Stem Travel: 1/16"

Input Pressure: 100 psig max.

Air Flow: @100 psig - 1.4 SCFM

Force For Full Stem Travel: 20 oz. nominal

Ports: 3-56 with 1/16" I.D. hose barbs

Temperature Range: 32° to 230° F

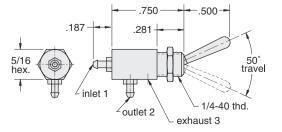
Spool Material: Delrin®

Four colors of snap on push buttons included with each valve

SMTV-3

Sub-miniature 3-way spool two position toggle valve





Medium: air

Arc Of Travel: 50°

Input Pressure: 100 psig max.

Air Flow: @100 psig - 1.4 SCFM

Force For Full Stem Travel: 24 oz. nominal

Ports: 3-56 with 1/16" I.D. hose barbs

Temperature Range: 32° to 230° F

Spool Material: Delrin®



#10-32

(inlet 1)

3/8 hex

.625 dia.

Materials: brass body, Buna-N seals, stainless steel stem & spring Options: see page 105

15/32-32 thd.

50°

travel

.625

MTV-3

3-way poppet two position toggle valve

#10-32 (outlet 2)

(exhaust 3) >

.375

1.843



Medium: air, water, or oil

Arc Of Travel: 50°

Input Pressure: 300 psig max.

Air Flow: @50 psig - 4 SCFM @100 psig - 7 SCFM

Force For Full Stem Travel: 16 oz. nom.

Mounting: 15/32-32 thd.

nut and lockwasher furnished

Ports: Inlet - 10-32, Outlet - 10-32, Exhaust 10-32

Temperature Range: 32° to 230° F



3-way poppet two position toggle valve MTV-3P



Medium: air, water, or oil

Input Pressure: 300 psig max.

Air Flow: @50 psig - 4 SCFM @100 psig - 7 SCFM

Force For Full Stem Travel: 16 oz. nom.

Mounting: 15/32-32 thd. nut and lockwasher furnished

Ports: Inlet - 1/8 NPT, Outlet - 10-32

Exhaust 10-32

Temperature Range: 32° to 230° F

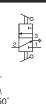


(exhaust 3) > 15/32-32 thd. 1/8 NPT (inlet 1) 50° travel .375 7/16 hex. 1.843 .625 .625 dia.

#10-32 (outlet 2)

MJTV-3

3-way poppet two position toggle valve with 1/8 NPT ports





Medium: air, water, or oil

Air Flow: @50 psig - 14 SCFM @100 psig - 25 SCFM

Force For Full Stem Travel: 16 oz. nom.

Mounting: 15/32-32 thd. nut and lockwasher furnished

Ports: Inlet - 1/8 NPT, Outlet - 1/8 NPT

Exhaust 1/8 NPT

Temperature Range: 32° to 230° F



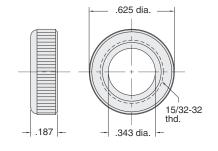
2.375 .625 1/8 NPT (inlet 1) -.375 .312 50° .875 travel 1/8 NPT 15/32-32 thd. (outlet 2) 625 .562 (exhaust 3) 1.187

1406-1 (black) 1406-2 (bright)

15/32" panel mounting nut

Construction: Brass with black or bright nickel finish





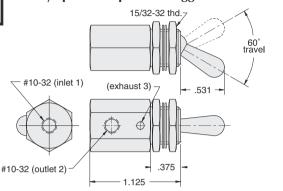


Options: see page 105 Mate

Materials: brass body, Buna-N seals, stainless steel stem & spring

TV-3S

3-way spool two position toggle valve



Medium: air

Arc Of Travel: 60°

Input Pressure: 150 psig max.

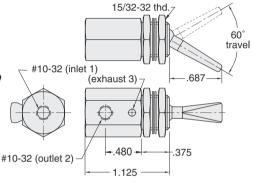
Force For Full Stem Travel: 12 oz. nom.

Mounting: 15/32-32 thd. nut and lockwasher furnished

Ports: Inlet - 10-32, Outlet - 10-32 Temperature Range: 32° to 230° F

TV-3SF

3-way spool two position toggle valve



Medium: air

Arc Of Travel: 60°

Input Pressure: 150 psig max.

Air Flow: @50 psig - 4.5 SCFM
 @100 psig - 8.0 SCFM

Force For Full Stem Travel: 12 oz. nom.

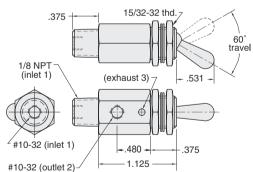
Mounting: 15/32-32 thd. nut and lockwasher furnished Ports: Inlet - 10-32, Outlet - 10-32

Toggle: Plastic

Temperature Range: 32° to 230° F

TV-3SP

3-way spool two position toggle valve with 1/8 NPT



Medium: air

Arc Of Travel: 60°

Input Pressure: 150 psig max.

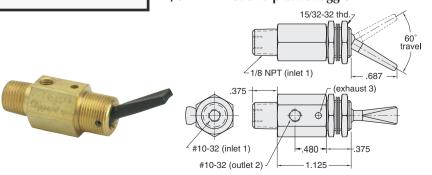
Force For Full Stem Travel: 12 oz. nom.

Mounting: 15/32-32 thd. nut and lockwasher furnished

Ports: Inlet - 1/8 NPT, Outlet - 10-32 Temperature Range: 32° to 230° F

TV-3SFP

3-way spool two position toggle valve with 1/8 NPT inlet and plastic toggle



2 1

Medium: air

Arc Of Travel: 60°

Input Pressure: 150 psig max.

Air Flow: @50 psig - 4.5 SCFM @100 psig - 8.0 SCFM

Force For Full Stem Travel: 12 oz. nom.

Mounting: 15/32-32 thd. nut and lockwasher furnished

Ports: Inlet - 1/8 NPT, Outlet - 10-32

Toggle: Plastic

Temperature Range: 32° to 230° F



3-WAY MOMENTARY TOGGLE VALVES

Materials: brass body, Buna-N seals, stainless steel stem & spring Options: see page 105

15/32-32 thd.

-.531

30° travel

(exhaust 3)

.375

1.437

TV-3M

Normally closed 3-way toggle valve with momentary actuation

#10-32 (output 2)

9/16

#10-32 (input 1)

Medium: air

Input Pressure: 300 psig max. Air Flow: @50 psig - 4.0 SCFM

@100 psig - 6.8 SCFM

Force For Full Stem Travel: 12 oz. nom.

Mounting: 15/32-32 thd. nut and lockwasher furnished

Ports: Inlet 10-32, Outlet 10-32

Temperature Range: 32° to 230° F

TV-3MF: same as TV-3M except with a plastic toggle

TV-3MP

Normally closed 3-way toggle valve with momentary actuation 1/8 NPT inlet

Medium: air, water, or oil Input Pressure: 150 psig max.

Air Flow: @50 psig - 4.0 SCFM

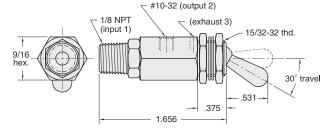
@100 psig - 6.8 SCFM

Force For Full Stem Travel: 12 oz. nom.

Mounting: 15/32-32 thd. nut and lockwasher furnished

Ports: Inlet 1/8 NPT, Outlet 10-32 Temperature Range: 32° to 230° F





TV-3MFP: same as TV-3MP except with a plastic toggle

TVO-3M

Normally open 3-way toggle valve with momentary actuation

Medium: air

Input Pressure: 300 psig max.

Air Flow: @50 psig - 4.0 SCFM

@100 psig - 6.8 SCFM

Force For Full Stem Travel: 12 oz. nom.

Mounting: 15/32-32 thd.

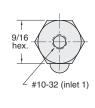
nut and lockwasher furnished

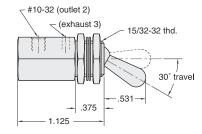
Ports: Inlet 10-32, Outlet 10-32

Temperature Range: 32° to 230° F

TVO-3MF: same as TVO-3M except with a plastic toggle



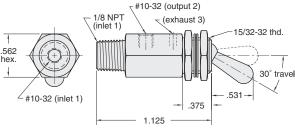




TVO-3MP

Normally open 3-way toggle valve with momentary actuation 1/8 NPT inlet





Medium: air

Input Pressure: 150 psig max. Air Flow: @50 psig - 4.0 SCFM

@100 psig - 6.8 SCFM

Force For Full Stem Travel: 12 oz. nom.

Mounting: 15/32-32 thd.

nut and lockwasher furnished Ports: Inlet 1/8 NPT, Outlet 10-32 **Temperature Range:** 32° to 230° F

TVO-3MFP: same as TVO-3MP except with a plastic toggle

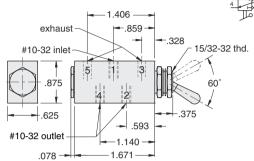


Options: see page 105 Materials: brass body, Buna-N seals, stainless steel stem & spring

MTV-4



4-way spool toggle actuated two position valve



Medium: air

Arc Of Travel: 60°

Input Pressure: 150 psig max.

Air Flow: @50 psig - 6 SCFM
 @100 psig - 10 SCFM

Force For Full Stem Travel: 16 oz. nominal

Mounting: 15/32-32 thread nut and lockwashers furnished Ports: Inlet - 10-32, Outlet - 10-32

Exhaust: To atmosphere through holes

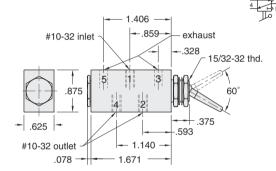
in body

Temperature Range: 32° to 230° F

MTV-4F



4-way spool toggle actuated two position valve with plastic toggle



Medium: air

Arc Of Travel: 60°

Input Pressure: 150 psig max.

Air Flow: @50 psig - 6 SCFM
 @100 psig - 10 SCFM

Force For Full Stem Travel: 16 oz. nominal

Mounting: 15/32-32 thread nut and lockwashers furnished Ports: Inlet - 10-32, Outlet - 10-32

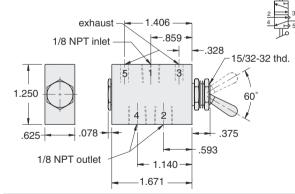
Exhaust: To atmosphere through holes in body

Construction: Plastic Toggle **Temperature Range:** 32° to 230° F

MJTV-4



4-way spool toggle actuated two position valve



Medium: air

Arc Of Travel: 60°

Input Pressure: 150 psig max.

Air Flow: @50 psig - 6.5 SCFM
 @100 psig - 10.5 SCFM

Force For Full Toggle Travel: 16 oz. nominal

Mounting: 15/32-32 thread nut and lockwashers furnished Ports: Inlet - 1/8 NPT, Outlet - 1/8 NPT

Exhaust: To atmosphere through holes

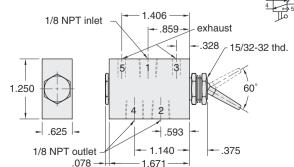
in body

Temperature Range: 32° to 230° F

MJTV-4F



4-way spool toggle actuated two position valve with plastic toggle



Medium: air

Arc Of Travel: 60°

Input Pressure: 150 psig max.

Air Flow: @50 psig - 6.5 SCFM
 @100 psig - 10.5 SCFM

Force For Full Toggle Travel: 16 oz. nominal

Mounting: 15/32-32 thread nut and lockwashers furnished Ports: Inlet - 1/8 NPT, Outlet - 1/8 NPT Exhaust: To atmosphere through holes in body

Construction: Plastic Toggle **Temperature Range:** 32° to 230° F

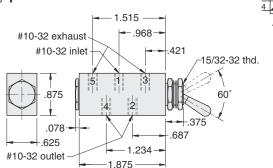


4-WAY FULLY PORTED TOGGLE VALVES

Options: see page 105 Materials: brass body, Buna-N seals, stainless steel stem & spring

MTV-5

4-way spool toggle actuated two position fully ported valve



Medium: air, water, or oil

Arc Of Travel: 60°

Input Pressure: 150 psig max.

Air Flow: @50 psig - 6 SCFM @100 psig - 10 SCFM

Force For Full Stem Travel: 16 oz. nom.

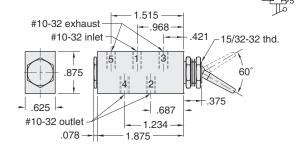
Mounting: 15/32-32 thread nut and lockwashers furnished Ports: Inlet - 10-32, Outlet - 10-32

Exhaust: 10-32

Temperature Range: 32° to 230° F

MTV-5F

4-way spool toggle actuated two position fully ported valve



Medium: air, water, or oil

Arc Of Travel: 60°

Input Pressure: 150 psig max.

Air Flow: @50 psig - 6 SCFM
 @100 psig - 10 SCFM

Force For Full Stem Travel: 16 oz. nom.

Mounting: 15/32-32 thread nut and lockwashers furnished Ports: Inlet - 10-32, Outlet - 10-32

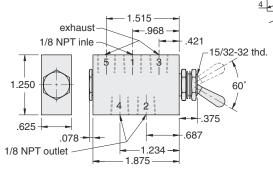
Exhaust: 10-32

Construction: Plastic Toggle **Temperature Range:** 32° to 230° F

MJTV-5



4-way spool toggle actuated two position fully ported valve



Medium: air, water, or oil

Arc Of Travel: 60°

Input Pressure: 150 psig max.

Air Flow: @50 psig - 6.5 SCFM
 @100 psig - 10.5 SCFM

Force For Full Stem Travel: 16 oz. nom.

Mounting: 15/32-32 thread nut and lockwashers furnished

Ports: Inlet - 1/8 NPT, Outlet - 1/8 NPT

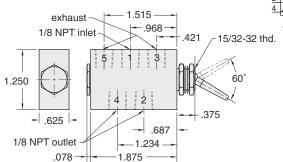
Exhaust: 1/8 NPT

Temperature Range: 32° to 230° F

MJTV-5F



4-way spool toggle actuated two position fully ported valve



Medium: air, water, or oil

Arc Of Travel: 60°

Input Pressure: 150 psig max. **Air Flow:** @50 psig - 6.5 SCFM

@100 psig - 10.5 SCFM

Force For Full Stem Travel: 16 oz. nom.

Mounting: 15/32-32 thread nut and lockwashers furnished Ports: Inlet - 1/8 NPT, Outlet - 1/8 NPT

Exhaust: 1/8 NPT

Construction: Plastic Toggle **Temperature Range:** 32° to 230° F

FTV SERIES 3-WAY VALVE



Options: see page 105 Materials: brass body, Buna-N seals, stainless steel stem & spring

FTV-3

3-way spool toggle actuated two position fully ported valve

.875



Medium: air, water, or oil

Input Pressure: Vacuum to 150 psig max.

Air Flow: @50 psig - 6 SCFM @100 psig - 10 SCFM

Force For Full Stem Travel: 16 oz. nom.

Arc Of Travel: 60°

Mounting: 15/32-32 thread Nut and lockwashers furnished

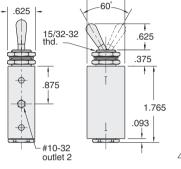
Ports: Inlet - 10-32, Outlet - 10-32 Exhaust - 10-32

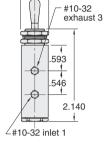
Temperature Range: 32° to 230° F

Construction: Plastic Toggle (FTV-3F)

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FTV-3P





.625

FTV-3F



3-way spool toggle actuated two position fully ported valve



Medium: air, water, or oil

Input Pressure: Vacuum to 150 psig max.

Air Flow: @50 psig - 6.5 SCFM @100 psig - 10.5 SCFM

Force For Full Stem Travel: 16 oz. nom.

Arc Of Travel: 60°

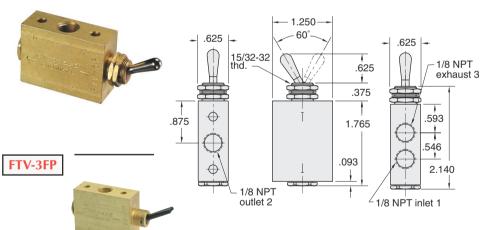
Mounting: 15/32-32 thread Nut and lockwashers furnished

Ports: Inlet - 1/8 NPT, Outlet - 1/8 NPT

Exhaust - 1/8 NPT

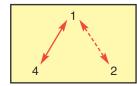
Temperature Range: 32° to 230° F

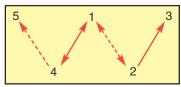
Construction: Plastic Toggle (FTV-3FP)

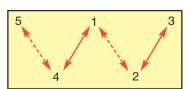


FLOW PATHS FOR "FTV & FV" SERIES VALVES

Solid lines indicate flow paths with toggle or stem in one direction. Dotted lines indicate flow paths when the toggle or stem are shifted.







Note: Includes MTV-4, MTV-5, MFTV-4 & MJTV-5



TV Series 4-Way Toggle Valve

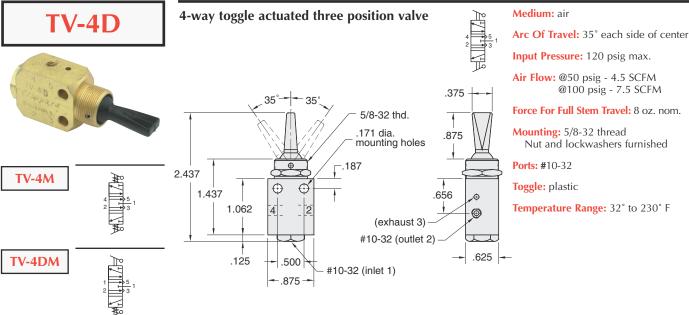
Materials: brass body, Buna-N seals, stainless steel stem & spring **Options:** see page 105

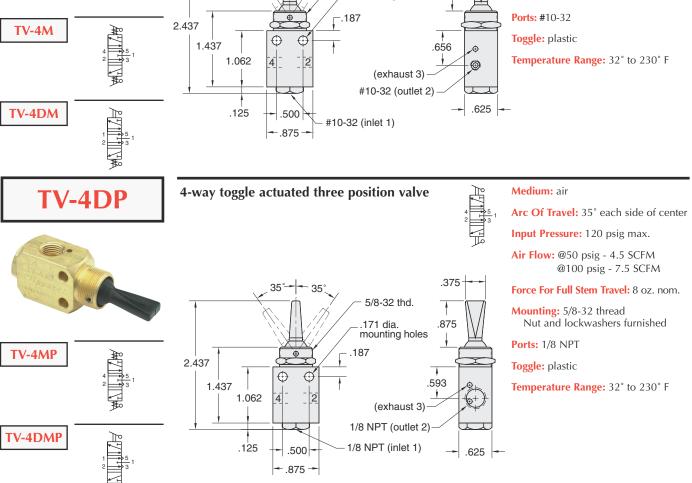
Toggle Position Options

By choosing valves with different toggle position options the user can customize the application to best suit the needs. For example, the DM model can be used on the momentary side as a "jog" or "manual" control, and with the detented side for "automatic" or "run" mode.

Valves are made of solid brass, bright dipped finish to resist corrosion; stems and springs are of stainless steel, toggle of black acetyl plastic, and seals of Buna-N rubber. They will handle pressures from 0 to 120 psig, and temperatures from 32 to 230 degrees F.

Model Number				
TV-4D TV-4DP	10-32 1/8 NPT	Detented	SPRING CENTERED supply blocked both sides exhausted	Detented
TV-4M TV-4MP	10-32 1/8 NPT	Momentary		Momentary
TV-4DM TV-4DMP	10-32 1/8 NPT	Detented		Momentary





FBV SERIES 3-WAY FILL & BLEED TOGGLE VALVE



Options: see page 105 Materials: brass body, Buna-N seals, stainless steel stem & spring

Fill and Bleed Applications

The FBV-3 may be used to pressurize or "fill" a chamber or bladder by depressing the toggle in one direction and then de-pressurize or "bleed" that same chamber or bladder by depressing the toggle in the other direction. Toggling back and forth between the inlet and exhaust provides a fine adjustment of the required pressure in the chamber or bladder.

