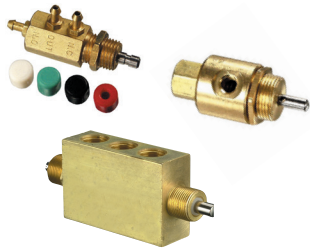


# Clippard

## MECHANICAL VALVES



# Mechanical Valves



## STEM VALVES

*Flow path changes when stem is depressed or released*

*Can be used with a variety of different actuators*

**p. 4**



## TOGGLE VALVES

*Momentary or detented  
Metal or plastic toggles*

*Variety of seal and lubricant options*

**p. 5**



## CARTRIDGE VALVES

*Momentary or detented  
Metal or plastic toggles*

*Variety of seal and lubricant options*

**p. 6**



## REGULATORS

*Offered in either relieving or non-relieving versions*

*Variety of adjustment and mounting styles*

**p. 7-8**



## CHECK VALVES

*Allow flow in one direction and automatically prevent flow in the opposite direction*

*Durable brass body construction*

*Variety of porting options*

**p. 9**



## NEEDLE VALVES

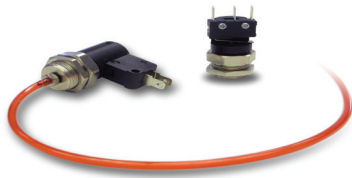
*Used to control the rate of flow in both directions*

*Variety of port and needle configurations available*

*Provide coarse or fine adjustment*

**p. 9**





## SWITCHES

Manual and pneumatic  
Convert air pressure  
to an electrical signal

**p. 10**



## SLEEVE VALVES

Smooth, low friction operation  
Variety of inlet and outlet porting  
reduces need for fittings

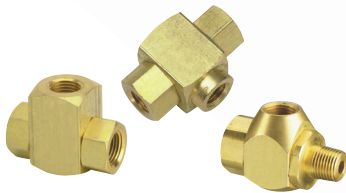
**p. 10**



## EXHAUST VALVES

Compact, durable brass  
construction  
#10-32, 1/8" NPT and 1/4" NPT

**p. 10**



## SHUTTLE VALVES

Allow flow from one inlet to  
outlet while blocking the  
other inlet

#10-32, 1/8" NPT and 1/4" NPT

**p. 11**



## FLOW CONTROLS

Ideal for use with pneumatic  
cylinders

Also used with air pilot  
valves for delay functions

**p. 11**



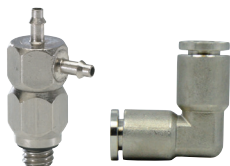
## ACTUATORS

Push and palm buttons

Captivated and heavy duty

Roller Cams

**p. 12-13**



## FITTINGS

Barb Fittings  
Stainless Steel Push-Quick  
Choose from a large variety

**p. 14-16**



## HOSE & TUBING

Polyurethane, Silicone and  
Vinyl

Variety of sizes, colors and  
configurations

**p. 17**

## STEM VALVES

These 2-Way, 3-Way and 4-Way valves change their flow path when the stem is either depressed or released.

Clippard offers a wide range of pneumatic and mechanical valve actuators that work with all Clippard stem valves.

- 2-Way, 3-Way and 4-Way valves
- Miniature size with high flow poppet or spool designs
- Exceptionally low leakage rates
- Durable brass and stainless steel construction
- RoHS Compliant



For more info, scan the QR code or visit [clippard.com/link/stem](http://clippard.com/link/stem)



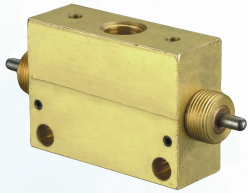
### SMAV SERIES

- 2-Way & 3-Way
- N.O. & N.C.
- Spool Style
- Sub-miniature
- #3-56 ports, 1/16" ID barb
- Operating Pressure: 0 to 100 psig (7 bar) max.
- Flow: 51 l/min @ 100 psig (7 bar)
- Ideal for small applications
- Commonly used in dental/medical applications



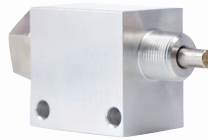
### MAV SERIES

- 2-Way, 3-Way & 4-Way
- N.C. Poppet Style; N.O. Spool Styles
- #10-32 ports
- Operating Pressure: 0 to 150 (10 bar)/ 0 to 300 psig (21 bar) max.
- Flow: 4 l/min @ 50 psig (3.5 bar); 110 l/min @ 100 psig (7 bar)
- Commonly used in dental/medical applications



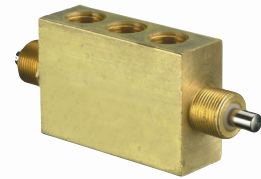
### MJV SERIES

- 3-Way & 4-Way
- N.O. & N.C.
- Poppet & Spool Styles
- 1/8" NPT ports
- Operating Pressure: 0 to 150 (10 bar)/ 0 to 300 psig (21 bar) max.
- Flow: 200 l/min @ 50 psig (3.5 bar); 400 l/min @ 100 psig (7 bar)
- Commonly used to drive pneumatic cylinders



### GV SERIES

- 2-Way & 3-Way
- N.C. Poppet Style
- 1/4" NPT ports
- Operating Pressure: 0 to 150 psig (10 bar) max.
- Flow: 1,070 l/min @ 50 psig (3.5 bar); 1,900 l/min @ 100 psig (7 bar)
- High flow poppet valve



### FV SERIES

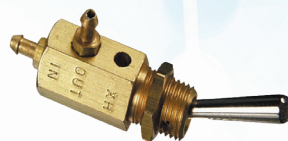
- 3-Way & 4-Way
- N.O. & N.C.
- Spool Style
- #10-32 & 1/8" NPT ports
- Operating Pressure: Vac to 150 psig (10 bar) max.
- Flow: 170 l/min @ 50 psig (3.5 bar); 295 l/min @ 100 psig (7 bar)
- Bidirectional flow
- Can be used as a selector/diverter



## TOGGLE VALVES

These #10-32 and 1/8" NPT ported 2-Way, 3-Way, and 4-Way valves are manually actuated with a plastic or metal toggle. When the toggle is in the "on" position, air flows from the inlet to the outlet and the exhaust port is blocked. Moving the toggle to the "off" position closes the inlet and opens the outlet to an exhaust port which vents the outlet to atmosphere. 4-Way valves can supply and exhaust two different outlets.

- 2-Way, 3-Way and 4-Way valves
- Detented or momentary actuation
- Variety of sizes, flow rates and seal options available
- Durable brass and stainless steel construction
- Metal or plastic toggles
- RoHS Compliant



### SMTV SERIES

- 2-Way & 3-Way Sub-Miniature
- N.C.
- Spool Style
- #10-32 & 1/8" NPT ports
- Operating Pressure: 0 to 150 psig (10 bar) max.
- Flow: 51 l/min @ 100 psig (7 bar)



### MTV-MJTV SERIES

- 3-Way & 4-Way
- N.O. & N.C.
- Spool Style
- 1/8" NPT ports
- Operating Pressure: 0 to 150 psig (10 bar) / 300 psig (21 bar) max.
- Flow: 180 l/min @ 50 psig (3.5 bar); 710 l/min @ 100 psig (7 bar)



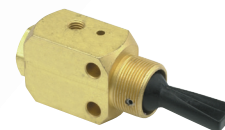
### TV SERIES

- 2-Way & 3-Way
- N.O. & N.C.
- Spool Style
- #10-32 & 1/8" NPT ports
- Operating Pressure: 0 to 150 psig (10 bar) max.
- Flow: 95 l/min @ 50 psig (3.5 bar); 225 l/min @ 100 psig (7 bar)



### FTV SERIES

- 2-Way, 3-Way & 4-Way
- N.C.
- Spool Style
- #10-32 & 1/8" NPT ports
- Operating Pressure: 0 to 150 psig (10 bar) max.
- Flow: 170 l/min @ 50 psig (3.5 bar); 295 l/min @ 100 psig (7 bar)



### TV4 FILL & BLEED

- 4-Way, 3 Position (Exhaust Center)
- #10-32 & 1/8" NPT ports
- Operating Pressure: 0 to 150 psig (10 bar) max.
- Flow: 125 l/min @ 50 psig (3.5 bar); 1,210 l/min @ 100 psig (7 bar)
- Momentary/Detented (Configurable)

For more info, scan the QR code or visit

[clippard.com/link/toggle](https://clippard.com/link/toggle)



## CARTRIDGE VALVES

Cartridge Valves change their flow path when the stem is depressed or released or the toggle is switched. Offered in both Normally-Closed (not passing) or Normally-Open (passing) versions, they are designed to be installed in a custom bore.

The 4-Way valves are typically used to control a double-acting air cylinder. Clippard offers a wide range of pneumatic and mechanical actuators that work with all Clippard stem valves.

- 2-Way, 3-Way and 4-Way valves
- Miniature size with high flow poppet or spool designs
- Exceptionally low leakage rate on poppet design
- Rotatable inlet available
- Designed to be mounted in manifolds



### MAV SERIES

- 2-Way & 3-Way
- N.O. Spool Style
- N.C. Poppet Style
- Operating Pressure:  
0 to 300 psig (21 bar) max.
- Flow: 4 l/min @ 50 psig (3.5 bar); 6.8 l/min @ 100 psig (7 bar)



### MJV SERIES

- 2-Way & 3-Way
- N.O. Spool Style
- N.C. Poppet Style
- Operating Pressure:  
0 to 150 (10 bar)/0 to 300 psig (21 bar) max.
- Flow: 11 l/min @ 50 psig (3.5 bar); 22 l/min @ 100 psig (7 bar)



### GV SERIES

- 2-Way & 3-Way
- N.C.
- Poppet Style
- Operating Pressure:  
0 to 150 psig (10 bar) max.
- Flow: 38 l/min @ 50 psig (3.5 bar); 67 l/min @ 100 psig (7 bar)



### HV SERIES

- 2-Way, 3-Way & 4-Way
- N.O. & N.C.
- Spool Style
- Stem or Toggle actuation
- Operating Pressure:  
0 to 150 psig (10 bar) max.
- Flow: 110 l/min @ 50 psig (3.5 bar); 280 l/min @ 100 psig (7 bar)



### MNV SERIES

- Screwdriver or knob adjustment
- #10-32 ports
- Operating Pressure:  
0 to 150 psig (10 bar) max.
- Flow: 28 l/min @ 50 psig (3.5 bar); 170 l/min @ 100 psig (7 bar)



For more info, scan the QR code or visit

[clippard.com/link/cartridge](http://clippard.com/link/cartridge)



# MAR REGULATORS



Regulators are offered in either relieving or non-relieving versions. The relieving design maintains a constant pressure output even when downstream conditions change, while non-relieving regulators do not automatically compensate for changes in downstream flow or pressure. There is no vent to atmosphere, as in a relieving type regulator, and the output pressure can increase due to a downstream event. Non-relieving versions can accommodate compatible liquid applications.

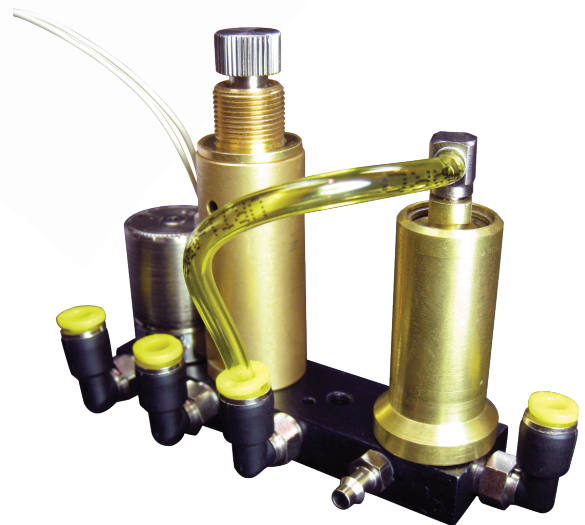
- Designed for applications where zero air consumption is required (non-bleed)
- Excellent corrosion resistance
- Relieving and non-relieving designs
- Manifold mount options

*FKM seals and electroless nickel plating also available*



<b>Adjustment</b>	By means of a knob with micro-adjustment (40 pitch thread). Screwdriver slot and plastic adjustment versions also available. 1C and 1CP Models: As plunger is depressed, pressure increases proportionally to the travel; when plunger is released the input is closed and the output pressure is exhausted to atmosphere. 7/32" plunger travel.
<b>Air Flow</b>	3 scfm @ 50 psig (3.4 bar); 5 scfm @ 100 psig (7 bar)
<b>Input Pressure</b>	300 psig max. (21 bar)
<b>Material, Wetted</b>	<b>Body:</b> Brass <b>Seals:</b> Nitrile (FKM optional) <b>Stem &amp; Spring:</b> Stainless Steel
<b>Medium</b>	Relieving: Air, Non-Relieving: Air, Water or Oil
<b>Mounting</b>	#15/32-32 thread. Nuts and lockwashers furnished.
<b>Operating Temperature</b>	32 to 230°F (0 to 110°C)

*Not recommended for applications where accurate dead-end, no flow is required.*



For more info, scan the QR code or visit [clippard.com/link/mar1](http://clippard.com/link/mar1)



# DR-2 REGULATORS



When Clippard invented miniature regulators in 1962, the MAR Series became very popular as a simple, robust, and cost-effective regulator in a small package with exceptionally long life.

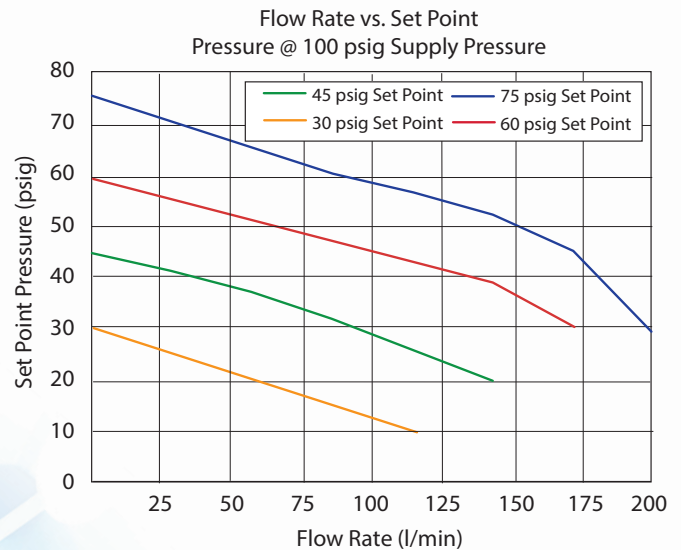
As regulator applications continue to increase, Clippard is meeting the demand with the newest addition to the reputable regulator line. The DR-2 Series provides greater accuracy and repeatability while maintaining the same flow and performance characteristics as the MAR regulators in a durable, sleek package.

These precision regulators are offered in either relieving or non-relieving versions. The relieving design maintains a constant pressure output even when downstream conditions change, while non-relieving regulators do not automatically compensate for changes in downstream flow or pressure. There is no vent to atmosphere, as in a relieving type regulator, and the output pressure can increase due to a downstream event. Non-relieving versions can also accommodate compatible liquid applications.

- Designed for applications where zero air consumption is required (non-bleed).
- Exceptional accuracy and repeatability
- Excellent corrosion resistance
- Relieving and non-relieving designs
- Manifold mount options
- Features non-rising internal adjustment

<b>Adjustment</b>	An extended 0.25" (6.4 mm) shaft accepts an adjustment knob or furnished with an exposed screwdriver slot with micro-adjustment (32 pitch thread). Knobs ordered separately (#AK4-A)
<b>Input Pressure</b>	300 psig max. (21 bar)
<b>Material, Wetted</b>	<b>Body:</b> Electroless Nickel Plated Brass <b>Lubricant:</b> PFPE <b>Screw &amp; Plug:</b> Stainless Steel <b>Seals:</b> FKM
<b>Medium</b>	Relieving: Air, Non-Relieving: Air, Water or Oil
<b>Mounting</b>	#5/16-24 thread; nuts & lockwashers furnished
<b>Repeatability</b>	±0.1 psig (0.01 bar) typical (±0.15 psig [0.01 bar] max.)
<b>Set Point Sensitivity</b>	0.1 psig (0.01 bar)
<b>Set Point Stability</b>	0.1 psig (0.01 bar)
<b>Temperature Range</b>	32 to 230°F (0 to 110°C)

*Not recommended for applications where accurate dead-end, no flow is required.*



*The DR-2's performance may vary in applications where dead end, no flow is required.*

For more info, scan the QR code or visit [clippard.com/link/dr2](http://clippard.com/link/dr2)





## NEEDLE VALVES

Needle valves are used to control the rate of flow in a pneumatic system by controlling flow in both directions. Material enters the input port, travels through an adjustable orifice and out the output port. Clippard offers a variety of adjustable control needle valves with various port and needle configurations to provide coarse or fine flow adjustment.

- Air, water or oil
- #10-32 , 1/8" NPT, 1/4" NPT and 3/8" NPT
- Direct, in-line or cartridge mount
- Screwdriver or knob adjustment

For more info, scan the QR code or visit [clippard.com/link/needle](http://clippard.com/link/needle)



### GNV SERIES

- 1/8" NPT, 1/4" NPT & 3/8" NPT ports
- Operating Pressure: Vac to 300 psig (21 bar) max.
- Flow: 850 l/min @ 50 psig (3.5 bar); 1,700 l/min @ 100 psig (7 bar)



### MNV SERIES

- #10-32 & 1/8" NPT ports
- Operating Pressure: Vac to 150 and 300 psig max.
- Flow: 28 l/min @ 50 psig (3.5 bar); 170 l/min @ 100 psig (7 bar)
- 3°, 5° and 15° needle angles



### SCPV STEPPER-CONTROLLED

- 1/8" NPT ports
- Operating Pressure: Vac to 100 psig (7 bar) max.
- Flow: 0 to 100/280 l/min @ 100 psig (7 bar)
- In-line, manifold or cartridge mount
- Less than 2% hysteresis

## CHECK VALVES

Check valves allow flow in one direction and automatically prevent flow in the opposite direction. The pilot-operated series adds the ability to remotely signal a free flow through the valve. Many flow options, porting configurations and plumbing choices available.



### MJCV SERIES

- 1/8" NPT ports
- Operating Pressure: Up to 300 (21 bar) psig max.
- Flow: 6.5 l/min @ 50 psig (3.5 bar); 1,000 l/min @ 100 psig (7 bar)

[clippard.com/link/check](http://clippard.com/link/check)



### JPC SERIES

- #10-32, 1/8" & 1/4" NPT ports
- Operating Pressure: Up to 300 psig (21 bar) max.
- Flow: 140 l/min @ 50 psig (3.5 bar); 1,600 l/min. @ 100 psig (7 bar)



### GCV SERIES

- 1/4" NPT & 3/8" NPT ports
- Operating Pressure: Up to 300 psig (21 bar) max.
- Flow: 39/84 l/min @ 50 psig (3.5 bar); 2,000/4,200 l/min @ 100 psig (7 bar)



### MCV SERIES

- #10-32 ports
- Operating Pressure: Up to 150 (10 bar), 300 (21 bar) and 2,000 psig max.
- Flow: 28 l/min @ 50 psig (3.5 bar); 170 l/min @ 100 psig (7 bar)

## AIR SWITCHES



MAS/SAS series switches utilize a standard miniature single pole double throw (SPDT) electrical switch certified UL, CSA, SEMKO and VDE. They are available in #10-32, M5, manual, and male 1/8-27 NPT ports for direct mounting into manifolds.

Mechanically-operated models are also available which may be used with any Clippard air pilot or push button actuator. The electrical switch is actuated by a lever arm which may be used as a manual override.

- Converts pneumatic to electric
- #10-32 and 1/8" NPT
- Input Pressure: 5 (2.5 bar) nominal to 150 psig (10 bar)
- Panel, bracket or bulkhead mount

For more info, scan the QR code or visit

[clippard.com/link/sas-mas](http://clippard.com/link/sas-mas)



## SLEEVE VALVES



Clippard 2-Way and 3-Way threaded sleeve valves offer large flow capability with a relatively short stroke, and no cross-over between inlet and exhaust on the 3-way models. Unlike ball valves, sleeve valves require no space for a handle. They also provide flexibility in pipe connections and are available with either male or female threads or combinations of both.

- A variety of inlet and outlet porting eliminates fittings
- #10-32, 1/8" NPT & 1/4" NPT
- Input Pressure: 0 to 150 psig (10 bar) max.
- Direct or in-line mount
- RoHS Compliant

For more info, scan the QR code or visit

[clippard.com/link/sleeve](http://clippard.com/link/sleeve)



## QUICK EXHAUST VALVES

Quick exhaust valves offer a variety of design features and provide fast response time and high flow with multiple porting options. These valves also enable the use of smaller directional control valves and longer control lines, and can be used as a shuttle valve. They are 100% tested to assure the highest quality.

- Enables use of smaller control valves
- Commonly used for shifting cylinders quicker
- Low shift ratio
- Brass body with molded Nitrile seal

For more info, scan the QR code or visit

[clippard.com/link/exhaust](http://clippard.com/link/exhaust)



### MEV SERIES

- #10-32 ports
- Poppet Style
- Operating Pressure: 15 to 300 psig (21 bar) max.
- Flow: 140 l/min @ 50 psig (3.5 bar); 250 l/min @ 100 psig (7 bar)



### JEV/JLEV SERIES

- 1/8" NPT & 1/4" NPT ports
- Poppet Style
- Operating Pressure: 15 to 150 psig (10 bar) max.
- Flow: 1,000 l/min @ 50 psig (3.5 bar); 1,600 l/min @ 100 psig (7 bar)



## SHUTTLE VALVES

Clippard offers three models of shuttle valves that allow flow from one inlet to the outlet while blocking the other inlet. These poppet type “double check” valves feature durable brass bodies and Nitrile seals. They may be mounted directly to valves and cylinders or in-line.

- #10-32 , 1/8" NPT and 1/4" NPT
- Also known as an “Or” valve
- Direct or in-line mount
- Brass body, stainless steel shuttle, Nitrile seal

For more info, scan the QR code or visit

[clippard.com/link/shuttle](http://clippard.com/link/shuttle)



## FLOW CONTROLS

Clippard offers many styles of adjustable flow controls with a multitude of ports with many connection and adjustment options. They feature a combination needle and check valve that controls flow in one direction, and allows free flow in the opposite direction. These precision flow control valves are ideal for use with pneumatic cylinders, providing a slow extend stroke while allowing a fast retract stroke. Flow control valves are also used for delay functions when using air pilot valves.

- Many porting sizes & options
- Direct or in-line mount
- Aluminum, anodized aluminum or brass body

For more info, scan the QR code or visit

[clippard.com/link/fc](http://clippard.com/link/fc)



### MSV SERIES

- #10-32 ports
- Operating Pressure: 0 to 250 psig (17 bar) max.
- Flow: 140 l/min @ 50 psig (3.5 bar); 270 l/min @ 100 psig (7 bar)



### MJSV SERIES

- 1/8" NPT ports
- Operating Pressure: 0 to 300 psig (21 bar) max.
- Flow: 400 l/min @ 50 psig (3.5 bar); 740 l/min @ 100 psig (7 bar)



### JSV SERIES

- 1/8" NPT & 1/4" NPT ports
- Operating Pressure: 0 to 300 psig (21 bar) max.
- Flow: 850 l/min @ 50 psig (3.5 bar); 1,400 l/min @ 100 psig (7 bar)



### MFC SERIES

- #10-32 ports
- Operating Pressure: 0 to 100 (7 bar)/0 to 300 psig (21 bar) max.
- Flow: 200 l/min @ 100 psig (7 bar)



### JFC SERIES

- 1/8" NPT, 1/4" NPT & 3/8" NPT ports
- Operating Pressure: 0 to 150 psig (10 bar) max.
- Flow: 310 / 1,250 / 1,700 l/min @ 100 psig (7 bar)



### PQ SERIES

- 1/8" NPT, 5/32" NPT, 6 mm, 1/4" NPT, 8 mm, 3/8" NPT & 1/2" NPT ports
- Operating Pressure: 0 to 150 psig (10 bar) max.
- Meter in & meter out versions
- Tube-to-tube connection

## CAPTIVATED PUSH BUTTONS

Clippard offers captivated push buttons for use with a large variety of stem-operated valves. Captivated push buttons are sold as kits, adaptable to either 1/8" diameter stems or 3/16" diameter stems. Each kit includes a colored acetyl push button, brass housing nut, 1/16" brass spacer, and lockwasher for assembly.



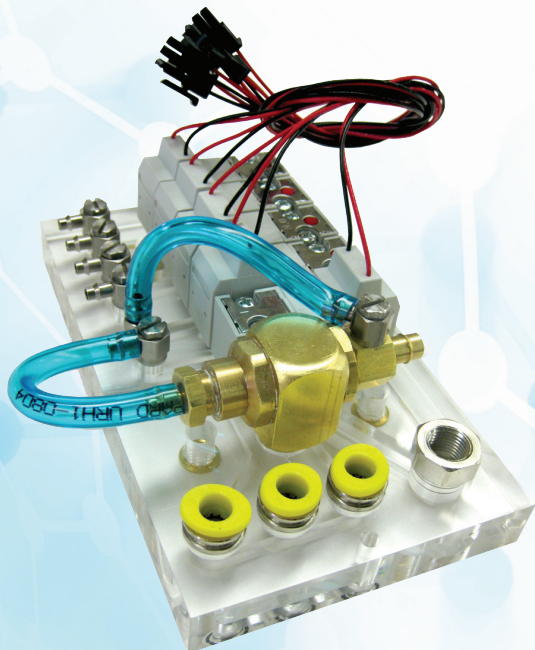
## HEAVY-DUTY ACTUATORS

Heavy-duty push button actuators can be used on individual stem-operated valves or in panel mounting applications. These push buttons are available in a variety of colors, allowing you to color code, to easily differentiate between valves when designing control systems. They feature a built-in spring so the button always returns to the extended position when released with no additional load on the valve.



For more info, scan the QR code or visit

[clippard.com/link/actuators](http://clippard.com/link/actuators)







## Custom Solutions





Need a product that fits your application perfectly? Clippard can design or modify standard products to suit your *exact* needs. We understand that catalog products are sometimes close, but still not quite what your application requires.





Call **877-245-6247** today so we can discuss your application requirements.







# ACTUATORS

22 mm	Description	Function
	<b>Flush Push Button</b>	Manual push in, spring return
	<b>Extended Push Button</b>	Manual push in, spring return
	<b>Automatic Push/Turn Mushroom</b>	Manual push in, latches in, turn clockwise to unlock, spring return
	<b>Maintained Twist 90°</b>	Turn clockwise to latch in, turn counter-clockwise to release

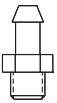






30 mm	Description	Function
	<b>Flush Push Button</b>	Manual push in, spring return
	<b>Extended Push Button</b>	Manual push in, spring return
	<b>Maintained Twist 90°</b>	Clockwise to latch in, counter-clockwise to release
	<b>Manual Push Mushroom</b>	Manual push in

22 mm	Description	Function
	<b>Spring Return Twist 45°</b>	Turn clockwise and hold for in, release for spring return
	<b>Manual Push Mushroom</b>	Manual push in, spring return
	<b>Key Twist 90° Maintained (with keys)</b>	Turn clockwise to latch in, counter-clockwise to release, key with drawable
	<b>Push Key Mushroom (with keys)</b>	Manual push in, auto latch in, clockwise to release, key with drawable

30 mm	Description	Function
	<b>Push/Turn Mushroom</b>	Manual push in, clockwise to unlatch
	<b>Spring Return Twist 45°</b>	Clockwise and hold for in, release for return
	<b>Push Key Maintained</b>	Manual push in, counter-clockwise to lock out, clockwise to unlock
	<b>Key Maintained Twist 90° (with keys)</b>	Clockwise to latch in, counter-clockwise to release

# MINIMATIC® BARB FITTINGS

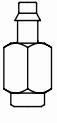
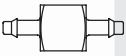
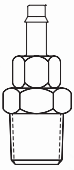

## CONNECTORS

		Tube (I.D.)	Material
	<b>#3-56 Male to 1/16" Barb 1/8" Hex</b>	1/16"	Brass
	<b>#10-32 Male to Single Barb, 1/4" Hex</b>	1/16"	Brass
		3/32"	ENP Brass
	<b>#10-32 Male to Multi-Barb, 1/4" Hex</b>	1/16" 1/8"	Brass
	<b>#10-32 Male to Barb, 1/4" Hex (Capt. O-Rings)</b>	1/16"	Brass
		3/32" 1/8"	
	<b>#10-32 Male to Barb, 5/16" Hex (Capt. O-Rings)</b>	1/16" 1/8"	ENP Brass
	<b>#10-32 Male Flush to Barb</b>	1/16" 3/32" 1/8"	Brass
	<b>#10-32 Male to Barb*</b>	1/8"	Brass
		<i>*Not to be used as a constant rotation junction</i>	



Minimatic® barb fittings provide a flexible, easy alternative to ferrule and push-to-connect design fittings. Electroless nickel plating provides corrosion resistance in applications involving high moisture. Nitrile gasket included with #10-32 threads except when ordered in bulk.

- In stock and ready to ship
- Low cost
- Miniature size provides low profile
- Holds to the burst pressure of polyurethane hose
- Low leak potential






	Barb (I.D.)	Material
	Tube <b>#10-32 Female to Barb</b> 1/16" 3/32" 1/8"	ENP Brass
	<b>Barb-to-Barb</b> 1/16" 3/32" 1/8"	ENP Brass
	<b>1/8" NPT Male Swivel</b> 1/8"	Brass
	<b>Male NPT Flush Fitting</b> 1/4" (1/8 NPT) 1/4" (1/4 NPT) <i>Requires thread sealant.</i>	Brass

For more info, scan the QR code or visit [clippard.com/link/sof](http://clippard.com/link/sof)




# MINIMATIC® BARB FITTINGS

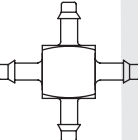
## ELBOW

		Tube (I.D.)	Material
	#10-32 Male to Barb	1/16" 3/32" 1/8"	ENP Brass
	#10-32 Male to Barb Universal	1/16" 3/32" 1/8"	
	Universal #10-32		
	#10-32 Male to Barb Swivel	1/16" 3/32" 1/8"	
	1/8" NPT Male to Barb Swivel	1/16" 3/32" 1/8"	

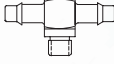
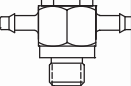
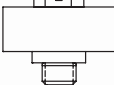
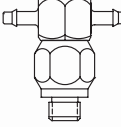
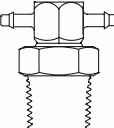
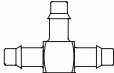
## #10-32 RUN TEE

		Material
	Universal #10-32	ENP Brass

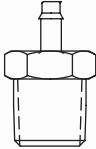
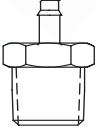
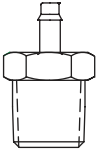

## CROSS

		Tube (I.D.)	Material
	Barb-to-Barb	1/16" 1/8" 3/32"	ENP Brass

## #10-32 BRANCH TEE










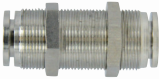


		Tube (I.D.)	Material
	#10-32 Male to Barb	1/16" 3/32" 1/8"	ENP Brass
	#10-32 Male Universal	1/16" 3/32" 1/8"	
	#10-32 Male Universal	-	
	#10-32 Male Swivel	1/16" 3/32" 1/8"	
	1/8" NPT Male Swivel	1/6" 3/32" 1/8"	
	Barb-to-Barb	1/16" 3/32" 1/8"	

## NPT TO BARB

		Thread	Material
	1/16" Barb to Male NPT	1/16" 1/8" 1/4"	Brass
	3/32" Barb to Male NPT	1/16" 1/8" 1/4"	
	1/8" Barb to Male NPT	1/16" 1/8" 1/4"	
	1/8" Barb to 1/8" Male NPT	1/8"	



# PUSH-QUICK FITTINGS

Threaded Fittings		Non-Threaded Fittings	
<b>Female Connectors</b> PQS-FC		<b>Straight Unions</b> PQS-SU	
<b>Male Connectors</b> PQS-MC		<b>Reduced Unions</b> PQS-RU	
<b>Bulkhead Connectors</b> PQS-BC		<b>Elbow Unions</b> PQS-EU	
<b>Male Elbows</b> PQS-ME		<b>Tee Unions</b> PQS-TU	
<b>Run Tees</b> PQS-RT		<b>Bulkhead Unions</b> PQS-BU	
<b>Branch Tees</b> PQS-BT		<b>Stem Couplers</b> PQS-SC	



Constructed of high grade 316 stainless steel, these durable fittings provide a simple push-pull method of connecting pneumatic components to each other and system piping. Push-Quick fittings allow full flow through the hose/tubing I.D. with no smaller orifice required as in barb fittings. They are designed for use with both flexible hose and stiff tubing made of nylon, polyurethane, polyethylene or polypropylene. Many styles and sizes are available.

- Provides high corrosion and chemical resistance
- FDA approved for use in food environments
- Ideal for high temperature applications
- Small, compact design
- Complete selection of hose and tubing available

## Custom Solutions

Need a product that fits your application perfectly? Clippard can design or modify standard products to suit your *exact* needs. We understand that catalog products are sometimes close, but still not quite what your application requires.

Call **877-245-6247** today so we can discuss your application requirements.





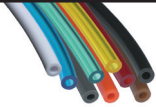




For more info, scan the QR code or visit

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# HOSE & TUBING

Type	O.D.	I.D.	Bend Radius	Working Range	Colors
 Ether Based 95A Durometer Polyurethane	5/32"	3/32"	3/8"	0 to 105 psig @ 100°F (max. 120°F)	<ul style="list-style-type: none"> <li>● - BKS</li> <li>☼ - CLT</li> <li>☼ - BLT</li> <li>☼ - GNT</li> <li>☼ - RDT</li> <li>☼ - YLT</li> </ul>
	1/4"	0.160"	1/2"		
	3/8"	1/4"	7/8"		
 Medical/Laboratory Grade Silicone	0.065"	0.030"	—	0 to 30 psig	Clear
	3/32"	1/32"	—		
	1/8"	1/16"	—		
	3/16"	1/16"	—	0 to 20 psig	
	1/4"	1/8"	—		
	5/16"	3/16"	—		
 Sanitary Food Grade Silicone	1/8"	1/16"	1/4"	0 to 14 psig	Clear
	1/4"	1/8"	1/4"	0 to 9 psig	
	3/8"	1/4"	3/4"		
 80A Durometer Vinyl	1/8"	1/16"	3/8"	0 to 105 psig @ 70°F (max. 60 psig @ 80° to 100°F)	Clear
	1/4"	1/8"	3/4"		
 85A Durometer Polyurethane	1/8"	1/16"	3/16"	0 to 105 psig @ 100°F (max. 120°F)	<ul style="list-style-type: none"> <li>● - BKS</li> <li>● - BRS</li> <li>☼ - CLT</li> <li>☼ - BLT</li> <li>☼ - GNT</li> <li>☼ - RDT</li> <li>☼ - YLT</li> </ul>
	1/4"	1/8"	3/8"		
 85A Durometer Polyurethane Ribbon	1/8"	1/16"	3/16"	0 to 105 psig @ 100°F (max. 120°F)	All (ribbon)
	1/4"	1/8"	3/8"		
 85A Durometer Twin Molded Polyurethane	1/4"	1/8"	3/8"	0 to 105 psig @ 100°F (max. 120°F)	Black & gray

**Color Key** Solid: ● Black (BKS) ● Brown (BRS) Translucent: ☼ Blue (BLT) ☼ Clear (CLT) ☼ Green (GNT) ☼ Red (RDT) ☼ Yellow (YLT)

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# PRECISION CONTROL SOLUTIONS



## ELECTRONIC VALVES

Clippard revolutionized the electronic valve market in the early 1970s with the EV series, which quickly became the industry standard for life and reliability. This unparalleled history in providing new and innovative products continues today, aided by advanced manufacturing machines and techniques.

[clippard.com/link/elec-valves](http://clippard.com/link/elec-valves)

## PROPORTIONAL VALVES

For optimal controllability, proportional valves provide output proportional to input. These types of valves are ideal for applications which require variable flow control.

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## ISOLATION VALVES

Media isolation valves are used for a wide variety of applications, including those that require precise, repeatable dispensing for medical and analytical instrumentation. Choose from a large variety of sizes, configurations, materials, and options or contact us to discuss special customizations.

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## CONTROL VALVES

From flow controls to needle valves, check valves, shuttle valves, exhaust valves and more, Clippard's control valves are available in a wide range configurations and functions. Sizes range from #3-56 and #10-32 through 3/8" NPT, for pressures up to 300 psig.

[clippard.com/link/control-valves](http://clippard.com/link/control-valves)

## DIRECTIONAL CONTROL VALVES

Clippard's line of mechanically-operated directional control valves includes toggle, stem, and lever valves as well as hand and foot-actuated pedal valves, palm button valves, and more. Choose from #3-56, #10-32, 1/8" NPT or 1/4" NPT ports.

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## AIR PILOT VALVES

The force output of an air pilot is much more powerful than the power produced from electrical solenoids or actuators. This makes air pilot valves ideal for applications where higher air flow and/or lower power are required, as well as when simplicity and cost savings are important.

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## ELECTRONIC CONTROLS

Clippard's Cordis series is a highly-customizable line of electronic controls designed to help close the loop around pressure and flow. With unparalleled accuracy and resolution, this line will elevate your application to the next level. Take control like never before with the Cordis.

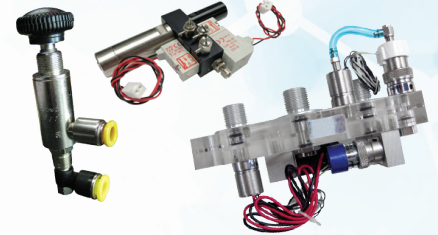
[clippard.com/link/elec-controls](http://clippard.com/link/elec-controls)



## PRESSURE REGULATORS

Regulators are offered in either relieving or non-relieving versions with a large variety of adjustment options and mounting styles to choose from. For even greater precision control, check out Clippard's Cordis line of electronic pressure regulators.

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## CUSTOM SOLUTIONS

Clippard excels at designing special variations, modifications, and completely custom valves, fittings, and assemblies. If you need a product that fits your application perfectly, we will work with you to design or modify products to suit your exact needs.

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## AIR PREP EQUIPMENT

Pneumatic applications with properly conditioned air will operate longer, cost less, and improve system efficiency. Clippard's line includes filters, regulators, lubricators, and combination units from #10-32 up to 1". A modular design and interconnecting hardware simplifies installation and maintenance.

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## FITTINGS

Small in size but large in performance, Clippard precision fittings are designed to save you time, space, and money when designing versatile, efficient, trouble-free circuits. Choose from an endless variety in several different styles including push-quick, slip-on, barb, and quick connect.

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## HOSE & TUBING

Choose from a large variety of miniature hose and tubing, including copper and nylon tubing, flexible urethane and vinyl hose and tubing, and food-, medical-, or laboratory-grade silicone tubing.

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**ELECTRONIC VALVES**

**PROPORTIONAL VALVES**

**ISOLATION VALVES**

**ELECTRONIC CONTROLS**

**CUSTOM SOLUTIONS**

**PRESSURE REGULATORS**

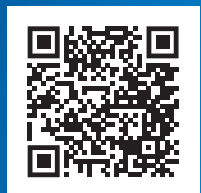
**CONTROL VALVES**

**DIRECTIONAL CONTROL VALVES**

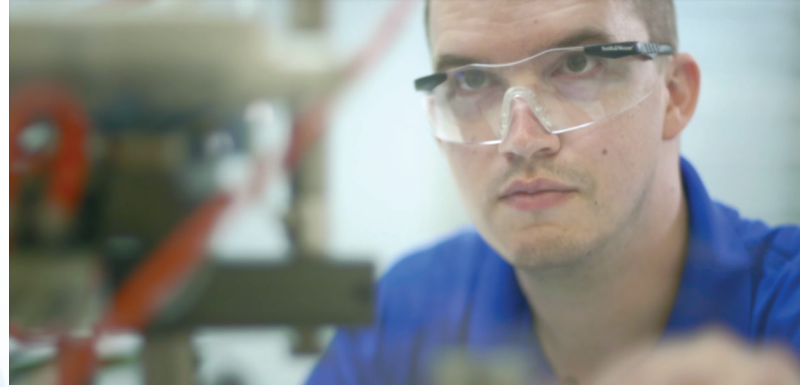
**AIR PILOT VALVES**

**AIR PREPARATION EQUIPMENT**

**FITTINGS, HOSE, & TUBING**



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