Quality People  
Quality Products!

Worldwide Distribution Network

Clippard pneumatic control devices are distributed worldwide via a network of professional sales and engineering specialists. Each Clippard Distributor is ready and eager to assist you with numerous solutions to save you time, money and headaches. Clippard’s quality, performance, service, reliability and outstanding value, coupled with our knowledgeable Distributor Specialists are ready to serve you.

For a distributor in your area, visit www.clippard.com/distributors today!

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Quality People  
Quality Products!

Corporate Manufacturing & Sales Headquarters  
Clippard Instrument Laboratory, Inc.  
7390 Colerain Avenue • Cincinnati, OH 45239  
1-877-245-6247 • 513-521-4261 • 513-521-4464 Fax

European Distribution & Technical Support Center  
Parc Scientifique Einstein  
Rue de Bosquet 6  
B-1348 Louvain-La-Neuve, Belgium  
+32 10 45 21 34 • +32 10 45 25 26 Fax

www.clippard.com

CUSTOM er solutions

Wire leads to be 1” x 1/8” with crimped terminal 10258333-2

5-volt coil less than 0.5 watt

"Cleaned for Oxygen Service" internal components

Brass body (no plating needed)

Stainless Steel coil housing

FKM seals

1/2" max Mounting holes

Integrated needle valve for precise flow control

Toggle-operated manual by-pass valve in base

www.clippard.com - solutions
The Clippard Advantage

Clippard Instrument Laboratory provides thousands of standard and special pneumatic products to design engineers and manufacturers around the world. Clippard has a unique advantage by providing custom products and value-added assemblies based on the most successful miniature pneumatic line in the world.

William L. Clippard, Jr. founded Clippard Instrument Laboratory in 1941. The initial product line consisted of electrical test equipment, magnetic windings and radio frequency coils. The first miniature fluid power devices designed and built by Clippard were for use in the manufacture of this equipment.

In the early 1950s, Mr. Clippard introduced Minimatic components as a new product line. His first spring-return, rolled construction air cylinder had a 3/8" bore and a 1/2" stroke. Mr. Clippard fabricated the original leather packings from old shoe tongues.

He also created the now standard #10-32 threaded ports, and introduced this new size cylinder and valve port to the market. As #10-32 fittings gained acceptance, they also became the standard for miniature valves. More component types and sizes were added as new markets developed around these popular products.

The need for miniature pneumatics was so widespread that the Minimatic line rapidly became Clippard’s primary product line, and remains so today.

Clippard is well-known as a quality manufacturer. However, there is much more to the story. True craftsmanship used in the Minimatic line is not limited by a numbers standard. Customers have long recognized the partnership they have with the Clippard organization, and have grown to appreciate the high standards self-imposed in the manufacture and testing of each valve and cylinder. Every employee at Clippard is devoted and empowered to provide you with the best product available.

Quality People delivering the highest Quality Products!

“Pioneers of miniature pneumatic valves, cylinders and fittings”

Complete SOLUTIONS

Your Need!

- Design & Engineering
- Material Selection
- Production Processes
- Assembly & Test
- Finished Product

Your Solution!

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If you need a product that fits your application perfectly, Clippard has the capability to design or modify one of its products to suit your exact needs. We understand that a standard catalog product may be close but not be exactly what you need. We have the ability and capacity to give you what you want. Our Engineering Department has designed tens of thousands of special variations, modifications, or completely special valves, cylinders, fittings, and assemblies.

**Custom Products Create Solutions**

“Cleaned for Oxygen Service” Valve with Safety Override
Clippard’s engineering expertise solved challenges for this Oxygen conserver application. Clippard integrated a miniature needle valve and toggle override into a special base using our popular electronic valve. Quiet, small, economical, extremely long life.

**With years of experience in engineering and technical expertise, Clippard continues to be a leader in manufacturing special products for a broad spectrum of industries.**

**Clippard’s Electronic Valves** are incredibly flexible from a production standpoint. Just let us know what you need.

**Compactness and ease-of-installation** is critical for this customer’s need. Clippard’s Stud Mount series valve is adapted to meet the need for an in-line-mounted gas valve.

Not your everyday 10 or 15 mm valves!
Specially-designed high-flow 2-way valves that can pass twice as much gas or liquid flow than other valves.

**Integrated Solutions**
How easy can we make it easy? This application requires special pressure decay testing and the assembly of customer specified fittings, connector, and special labeling.
Mechanically-Actuated Control Valves

Clippard Minimatic® control valves are available in poppet or spool design, 2-way, 3-way, or 4-way functions, in sizes from #3-56 and #10-32 through 1/8” NPT ports; and for pressures to 300 psig.

Stem Valves
Stem valves are mechanically-actuated 2-way, 3-way or 4-way air valves with brass bodies for actuation with push buttons, air pilot actuators, cam followers, and a variety of other methods.

Toggle Valves
Clippard has the largest variety of high-quality toggle valves in industry today.

Push Button Actuators
Offering versatility throughout the valve line, these actuators are usable with a large variety of Clippard control valves.

Air Actuators
Air-piloted and stem-actuated valves. Choose from multiple pressure ranges.

Check Valves
Clippard Minimatic check valves are found in thousands of applications across hundreds of industries.

Flow Controls
Miniature in size, and available with a variety of tapered needles for proper flow control for your application.

Cartridge Versions
A 3-way cartridge toggle valve allows all flow paths to be routed through a manifold. Cartridge valves can save space, and are ideal for integrating into plastic molded units.

Specials!
Clippard has been and still is a pioneer in miniature pneumatics. This cartridge 2-way valve is small and packs a lot of flow into a very small package. If you don’t see what you need in our standard catalog, just call us.

Air Switches
These air-actuated electrical switches are offered in a variety of pressure ranges.

Regulators
Robust, durable, and miniature! High quality, as you expect from Clippard.

Flow Controls
Miniature in size, and available with a variety of tapered needles for proper flow control for your application.

MARKETS
- Air quality monitoring
- Anesthesia
- Blood pressure monitoring
- Breathing systems
- Dental equipment
- Gas analytical equipment
- Gas chromatography/mass spectrometry
- Gas monitors
- Inlet testing
- Liquid transfer
- Material handling
- Medical analysis equipment
- Oxygen equipment
- Oxygen therapy
- Packaging
- Paintball equipment
- Liquid dispensing

CUSTOMer SOLUTIONS

Clippard's unparalleled history in providing new and innovative products continues today with advanced manufacturing machines and techniques, experienced design and application engineers, and a work force that is not only experienced, but one that genuinely wants to exceed the customer's expectations. We take great satisfaction in shipping you a quality product.

A combination assembly using a toggle or push button operator and Clippard's pressure-actuated electrical switches provides a simultaneous air and electrical output.

A valve used in dental applications features ports located straight out of the back for ease-of-assembly in a tight space. It also incorporates a special toggle to match the customers’ aesthetic requirements.

This air-piloted valve is designed for a water application where limited space is available.

Air-Piloted Valves
Clippard's Maximatic® line provides high flow for industrial applications, very economical prices, and fast delivery.

In system subassemblies, manifold-mounted components are desirable for any integrator. In this design, Clippard utilizes the miniature regulator series and an air-piloted 2-way valve mounted on a manifold adjacent to our electronic valve.

Simple, Small & Robust!
This stainless steel check valve meets unique customers' need at an affordable price.

Alternate materials, seals and/or lubrication for specific applications are common (and welcomed) requests at Clippard. Stainless steel, aluminum, plastic or brass. All available, just ask!

Use any combination of Clippard's electronic valves to actuate any Clippard control valve with an external supply.

www.clippard.com

SHOP ONLINE at www.airlinehyd.com

800-999-7378
Additional Product Lines

Air Cylinders
Clippard pneumatic cylinders are available in stainless steel, brass, and aluminum, and are available in 12 bore sizes with strokes up to 40”. For harsh environments, the CR series product line is also offered.

Modular Valves
Available in industry's largest variety of directional, flow, pressure and special control valves, each Modular valve is encased in a body designed to mate and link together with a simple piping system. They are the supreme "plug and play" device for pneumatic control applications.

Brass Fittings
Clippard brass fittings include thread sizes #3-56, #10-32, 1/16” and 1/8” NPT. Clippard provides a comprehensive offering of over 50 styles.

Maximatic® FRLs
Clippard’s Maximatic line includes a complete series of FRLs with five different sizes from #10-32 to 1” NPT of Filters, Regulators, Lubricators and combination units.

Push-Quick Fittings
Push-quick fittings speed tube insertion for assembling pneumatic circuits. The fittings provide a simple method to connect pneumatic components and accept a variety of flexible tubing.

Foot Pedal Valves
Hands-free touch-of-toe operation of endless types of automated and semi-automated machinery and equipment through use of Clippard’s foot pedal valves.

Hose & Tubing
Clippard offers an extensive variety of miniature hose and tubing from copper and nylon to flexible polyurethane, vinyl and Buna-N. Sizes include 1/8”, 1/4”, 5/32”, 6 mm, 8 mm, 1/8” and 1/2” OD in various styles.

Manifolds
Manifolds provide a convenient means for locating multiple pneumatic products in a centralized location. Benefits include lower cost, more compact design, single or double-side mounting, and a variety of materials.

Slip-On Fittings
Minimatic slip-on fittings provide a flexible, easy alternative to ferrule and push-to-connect fittings. The compact design of the fittings are ideal for applications where convenience and size are considerations.

Warning!
Clippard’s electronic valves are some of the quietest on the market, but not everyone needs silence. This pneumatic whistle was developed as a warning signal in an all-pneumatic system design for an explosion-proof environment.

Bleed Valve
This miniature device is a vent or bleed valve that uses a tire stem valve in a small panel-mounted body with integral hose barb.

Positioning or Ejecting
Clippard has developed a variety of miniature cartridge cylinders for compact applications where positioning or ejecting of parts is needed.

Valve/Push Button
This custom valve was developed using Clippard’s standard 2012 air-piloted valve and a red panel-mounted push button. This combination provides 22 scfm and a low force direct actuation.

Speedy Circuit Assembly
You can have a faster, more dependable way to produce multiples of the same pneumatic circuit. This system enables speedy assembly while ensuring accurate connections. By utilizing Clippard's unique manufacturing process, these clear acrylic substrates provide sealed passageways between valves without the need for gaskets, clamps, or piping. It's the fastest, most efficient circuit system available.

Circuit Control
Venturi systems can be an essential part of control circuits that utilize vacuum. Clippard developed this unit to complete a control circuit that contains 100% Clippard products.

Custom Cylinders
“Twice the force in half the size” was the goal for one custom cylinder. Multiple cylinder positions, or multiplied force can be achieved with this design.

Clippard produced the first rolled-steel cylinder in 1949. Since then, we have produced thousands of special configurations from cartridge designs to low break-away miniature cylinders.

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CUSTOM PRODUCTS
Clippard offers expertise in a wide variety of markets and applications. From Analytical to Printing, Assembly to Packaging, our products are engineered to the exact specifications you require. Supported by a platform of over 5,000 standard products, as well as customized solutions, we have the capability to provide you with a full range of products designed to meet the demands of your unique application.

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INTEGRATED SOLUTIONS

Engineered Solutions & Assemblies

We have an expansive line of components that are used in thousands of applications across many markets. It is this experience and knowledge of our own products that is now available to our customers when collaborating with Clippard to develop the right solution. Our Production, Engineering and Sales staff will come together with your organization to design, build, test and ship your pneumatic assembly when you need it.

Clippard offers the following services:
- Pneumatic Assemblies
- Special Manifold Designs
- Manifold Assemblies
- Pneumatic Circuit Design
- Control Boxes
- Fitting & Tubing Harnesses
- Component Kitting
- Specialized Testing
- KanBan Services

ADDITION VALUE is our business

Clippard's goal is to optimize system design, increase performance, reduce cost, and allow our customers to concentrate on their core competencies.

Value-Added Solutions for Your Pneumatic Needs

Advantages
- 100% tested sub-assemblies
- Less component stock/inventory
- Fewer vendors and purchase orders
- Requires less manufacturing time
- Increase production efficiency
- Specialized support
- Overall cost reduction
- Taking advantage of Clippard’s expertise

Methodology

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