



# *pneumatic* solutions

Normal atmospheric air consists of only 21% pure Oxygen with the balance being Nitrogen and other gases. For medical patients requiring Oxygen therapy, traditional compressed air or liquid air may not always be available or convenient. For those in need of a more portable solution, Oxygen Concentration devices are available in much smaller, more lightweight designs. A variety of models are offered for stationary applications as well as home and portable use.

Oxygen Concentrators draw the ambient air through an intake valve, pass the air through filters to remove contaminants which separates the Oxygen from the Nitrogen, Argon and other contents. By extracting the Oxygen, the concentrator delivers a flow that will typically have a purity of up to 95% Oxygen to the patient. Both continuous and pulse flow operation is available.

This technology is especially utilized for personal medical care and travel,



airline and military operations, ambulatory equipment, disasters, and more.

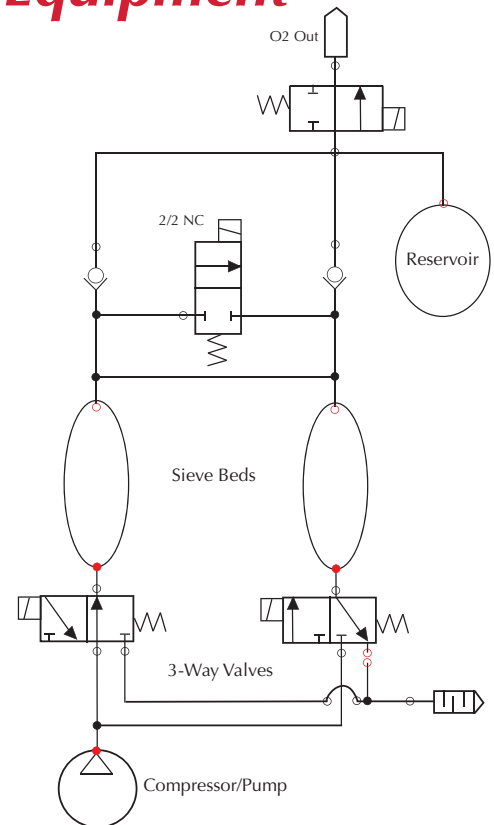


**Clippard** has been successfully partnering with progressive companies in the design and development of innovative pneumatic solutions for both portable and stationary Oxygen therapy equipment.

Clippard's miniature valves, actuators, fittings and regulators are ideal for these types of applications, especially with the addition of new "DV" Series, as well as the Oxygen Clean and Analytical series electronic valves.

- Engineering and product application expertise
- Large inventory of electronic valves with varying flow rates, response times, connection options, mounting styles and more.
- Worldwide distribution
- Complete line of miniature cylinders, control valves, actuators, fittings, tubing and more.

## *Oxygen Concentration Equipment*



# *Clippard*

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## Oxygen Concentration Equipment

relevant products



### 10 & 15 mm Valves

These compact valves offer many features for design flexibility, especially in applications with limited space. Available in 2- or 3-way configurations, as Normally-Open or Normally-Closed, flow rates from 0.5 to 3.0 scfm are available dependent on the orifice size. Other features include highly-visible LED indicator light and manual override, quick response time, and multiple mounting and voltage options.



### E Series Electronic Valves

The E Series pneumatic valves are precision-built 2- or 3-way control valves utilizing a unique, patented valving system. These valves are quiet, quick and produce consistent results. They accept low voltage and current signals, and convert them into high pressure pneumatic outputs. The Proportional Control Series varies the output based on the current input, for a high degree of control.



### EM Stud Mount Electronic Valves

At just over an inch tall, Clippard's EM valves feature a proven design, with high flow rates (0.55 to 0.75 scfm), fast shifting speed and extremely high cycle life, making this valve a "small wonder" for air and/or gas control, pilot control, and medical applications where space is limited, but performance is not.

### NEW! DV Series Bidirectional High Flow Electronic Valves

Flows to 100 l/min @ 100 psig!

The new powerful DV- Series was designed as the next generation of the well-known and trusted original EV line of Clippard "Mouse" valves. With a life cycle of **over a billion**, a solid, compact design, and extremely high flow rates, these valves are suitable for many applications across numerous diverse industries. A variety of voltage, connector and mounting options are available.

- Industry standard for leak-free operation
- Designed to accommodate large flows with more stroke
- Low heat rise/low power
- Robust stainless steel "Spider" flat spring



### Hose & Tubing

Clippard offers an extensive variety of miniature hose and tubing from copper and nylon tubing to flexible polyurethane, vinyl and Nitrile hose and tubing for the medical/analytical industries.



### Check Valves

Check valves permit flow in one direction only. They feature an input and output available with either #10-32 or 1/8" NPT ports; one for the medium to enter, and the other to leave. Input pressure to 300 psig.



### Minimatic® Fittings

Clippard offers an extensive range of miniature fittings for the medical industry. Fitting styles include barb, brass, push-quick, quick-connect and more. Flexible hose and stiff tubing is available from 1/8" to 3/8" OD.

# Clippard

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