



## FEATURES

- Buna-N “U”-cup rod seals for smooth leakproof operation
- Buna-N “U”-cup piston seals for full power, low friction and trouble-free performance
- Rods are threaded and bonded to piston
- The original miniature pneumatic cylinder
- 100% tested
- Pneumatic & hydraulic performance
- Sturdy, compact and long life
- Temperature range: 30 to 180°F

The Clippard line offers numerous choices in the mounting of Clippard Minimatic® cylinders. The cylinders are provided in several types of mounting styles including plain end, stud mount, block mount, and clevis mount (male and female). In addition, a complementary line of mounting hardware, including brackets, male and female clevises and Clippard’s Minimatic® super structures are available for almost any application.



Clippard cylinders are of original design, pioneered by the world’s most experienced manufacturer of miniature pneumatic equipment. They are of the finest OEM quality, fully tested for outstanding performance and long life. Special steps in manufacture insure the high quality of Clippard cylinders. These include: ground, polished and roller burnished rods to protect seals and provide smooth action; tube I.D. precision through “ballizing” with carbide precision balls; high precision screw machine parts manufacture, based on concentric design that lends itself to close tolerance machining. The reputation Clippard has earned in the field is a result of our policy to test every cylinder (100%) we manufacture.

## Every Cylinder is 100% tested

### Cylinder Tubes:

Machined from heavy wall, cold-drawn brass tubing; ballized internally for precise size, fine finish and low seal friction; 1 1/8” bore: hard coat aluminum

### Piston Rods:

Except where otherwise specified, all rods are stainless steel, ground, polished and roller burnished for long seal life, low friction and smooth action

### Pistons:

Brass in all models except aluminum in 7/8” bore single acting series

### Springs:

Stainless steel for long life and resistance to corrosion

### Seals:

Buna-N compound, impervious to a wide range of hydraulic fluids, liquids, and gases; rod seals replaceable on models where applicable; piston seals replaceable only on threaded construction models

### Bumpers:

Resilient bumpers of Buna-N or polyurethane absorb shock, increase life and reduce noise level

### Finish:

All external brass parts are “bright-dipped” to resist corrosion and preserve finished appearance; 1 1/8” bore: hard coated aluminum with black oxide steel heads

# 1949

Did you know that Clippard built the first miniature rolled construction air cylinder, the 3PS-1/2 in 1949.