The Sheffer Advantage is Your Advantage

Sheffer makes cylinders. Period! Since 1952, we’ve manufactured nothing else because it allows us to focus on our primary goal: To remain at the forefront of our industry by producing cylinders of unparalleled excellence. As cylinder specialists, Sheffer has earned the reputation for high quality, lasting performance, minimal downtime and lower operating costs.

The reason we remain focused on cylinders is because we put the end user first. We fully understand the critical role our cylinders play in the successful operations of those who use our products. From common use to custom applications, and from high-volume orders to a single unit, we are committed to producing precision cylinders that perform as expected — or better.

Our sights remain set on being nothing less than the benchmark by which all other cylinder manufacturers are measured. More important, our mission is to continually achieve new heights of customer satisfaction and service.

At Sheffer, there’s an advantage to making only cylinders. And that advantage is yours!

Our advanced manufacturing capabilities deliver unequaled precision in production.

Sheffer Cylinders are Better Cylinders!

The performance you expect from a quality cylinder

- Longer lifetime of service
- Minimal downtime
- Fast and easy installation
- Simple, affordable repairs
- No special tools required to make repairs
- Lower operating cost
- More options available
- Industry’s longest warranty
Our Cylinders are Designed with the End User in Mind

Four Full Wrench Flats
(Standard on all Sheffer cylinders)

For convenience, time and money savings during cylinder installation or replacement, Sheffer cylinders are produced with four full wrench flats. With our design, a flat is always positioned for a good wrench hold with normal tools. Our cylinders come this way because unconventional tools and methods are often used when a wrench flat isn’t convenient — possibly marring the rod surface which can damage seals and cause leaks.

Removable Rod Gland
(Not available on select small bore cylinders)

The wiper and pressure seals on Sheffer cylinders are encapsulated behind a removable rod gland that is bolted to the front of the cylinder. “On line” changing of seals is fast and easy using normal tools, without disturbing torque settings, removing the rod bearing or tearing down the cylinder. This feature dramatically increases productivity by reducing downtime and repair costs.

Separate Rod Bearing
(Standard on most Sheffer cylinders)

On Sheffer cylinders, the rod bearing is a hydrodynamic “flooded bearing”, which greatly reduces wear and extends part life. It's also inboard from the seals and a separate component, so if changeout is needed, the seals need not be replaced — and vice versa. No special tools are required. Moreover, the rod bearing can be removed and replaced without having to loosen tie rods or tear down the cylinder. That saves downtime, plus the cost of parts and labor.

Chamfered Tube Ends
(Standard on most Sheffer cylinders)

A small angle, or chamfer, is machined into the end of each Sheffer piston tube for quick, easy and reliable repairs. If the piston and rod have been removed (to replace seals for example), when the piston is pushed back in, the chamfer physically compresses the seal into the piston like a built-in funnel. Special compression tools aren’t needed during assembly and chances of seal damage are minimized. The chamfer design also prohibits extrusion of the O-ring once the tie rods are tightened. This forms a superior seal and diminishes the chance of leakage at the head and cap joint.

Slipper Piston Seal & Bearing
(Standard on all hydraulic cylinders)

The slipper piston seal and bearing on Sheffer cylinders are a standard option, not a cost-additive feature other manufacturers offer when their designs are inadequate. Our Teflon®-based surfaces are an excellent lubricant, demonstrating a very low coefficient of friction with low heat. As the cylinder moves back and forth, the Teflon also migrates into the pores of the cylinder tube, creating an even better lubricating surface. Slipper seals and bearings are another reason Sheffer cylinders reduce costs and downtime while increasing productivity.
Quality and Experience You Can Count On...

Whatever Your Application

From our first day in business, “quality first” has been our philosophy. By accepting nothing less than precision and accuracy, the Sheffer name has touched virtually every industry and been exposed to possibly the widest range of cylinder applications. By stressing “quality first”, the interests of our end users and distributors also come first. At each of our facilities in Cincinnati, Atlanta and Roseburg (Oregon), together with our England licensee, there is an overriding commitment to uncover new and better ways to meet and exceed customer expectations. Through forward thinking, creative problem solving and teamwork, our experienced cylinder professionals are able to perfectly match customer need to a cylinder solution.

Because of our vast experience, and our desire to be challenged, Sheffer can expertly handle almost any cylinder request — from the smallest to the largest. Whether it’s a standard cylinder application or one that’s highly specialized, our impressive manufacturing capabilities are equal to any task. Our goal is 100% customer satisfaction, exactly what you expect from an industry leader and innovator.

For additional information, contact our website:
www.sheffercorp.com

Founded in 1952, Sheffer continues to lead the industry in producing high-quality cylinders.

From order entry through shipping, our emphasis on quality has made the name Sheffer synonymous with performance.
**HH SERIES**
Heavy-Duty Hydraulic

Bore: 1 1/8" through 24" catalog standards
Ratings: 3,000 PSI working pressure standard
         5,000 PSI non-shock pressure standard
Mountings: 22 catalog standards
           Specials available

- ANSI, NFPA, JIC interchangeable dimensions
- Hydrodynamic in-board rod bearing for low friction and long life
- Unique slipper seal piston for low friction, breakaway and long life
- Abrasion resistant rod seal and wiper
- Studded rod end with 4 wrench flats
- Adjustable cushions available

**MH SERIES**
Medium-Duty Hydraulic

Bore: 1 1/8" through 8" catalog standards
Ratings: 800 to 2,000 PSI
Mountings: 20 catalog standards
           Specials available

- ANSI, NFPA, JIC interchangeable dimensions
- Hydrodynamic in-board rod bearing for low friction and long life
- Unique slipper seal piston for low friction, breakaway and long life
- Abrasion resistant rod seal and wiper
- Studded rod end with 4 wrench flats
- Adjustable cushions available

**UH SERIES**
Ultra High Pressure Hydraulic

Bore: 2" through 14"
Ratings: 5,000 PSI working pressure
          8,000 PSI non-shock pressure
Mountings: 8 standard mounts
           Specials available

- Non-interchangeable dimensions
- Will modify to suit your needs
A SERIES
Heavy-Duty Pneumatic

Bore: 1 1/8" through 14" catalog standards
Up to 42" as special
Ratings: 250 PSI catalog standard
Higher pressures available
Mountings: 20 catalog standards
Specials available

- ANSI, NFPA, JIC interchangeable dimensions
- Steel head and cap construction
- Aluminum tube standard
- Steel tube available
- Studded rod end with 4 wrench flats
- Hard chrome plated, case hardened piston rods
- Lubed for life
- Fast response adjustable cushions available
- Ideal for demanding applications

MA SERIES
Medium-Duty Pneumatic

Bore: 1 1/2" through 8"
Rating: 200 PSI
Mountings: 14 catalog standards

- ANSI, NFPA, JIC interchangeable dimensions
- High tensile, special hard anodized aluminum tube
- Aluminum head and cap for weight reduction
- Lubed for life
- Cushioned front, rear or both ends available
- Economical OEM cylinder

AA SERIES
Light-Duty Aluminum Pneumatic

Bore: 1 1/2", 2" and 2 1/2" only
Rating: 200 PSI
Mountings: Universal mount, mounting kits available

- Aluminum alloy body, head and cap
- Hard chrome plated piston rod standard
- Lubed for life
- Modified U-cup seals for low friction, long life
- Cushioned front, rear and both ends available

C20 SERIES
Cast Iron Pneumatic

Bore: 1 1/2" through 10"
catalog standards
Specials available
Rating: 200 PSI
Mountings: 5 catalog standards

- Hard chrome plated piston rod standard
- Lubed for life
- Aluminum tube standard, steel & fiberglass available
- Cushioned front, rear and both ends available
- Extremely compact for limited space applications
- Very economically priced
Electronic Positioning Cylinders

**CL SERIES**

*Heavy-Duty Clamp*

- **Bore:** 3/4" and 1 1/8" only
- **Ratings:**
  - CLA - 150 PSI Pneumatic
  - CLH - 250 PSI Pneumatic
  - CLH - 1,500 PSI Hydraulic
- **Mountings:**
  - Universal mount
  - Stud mount

- Double acting and single acting spring return/extend
- Accessories for additional mountings
- Lube'd for life
- Modified U-cup seals for low friction, long life
- Very economical
- Ideal for all types of clamping and tooling applications

**Custom**

Sheffer has manufactured cylinders within the specifications listed below, but they do not represent the limits to our capabilities.

- **Bore:** 0" - 54"
- **Stroke - Gross Stroke:** 0 - 100'
- **Dual Piston/Stop Tube:** as required
- **Mounting Styles:** as required
- **Extra Rod Extension:** as required
- **Port Size:** as required

- Stainless Steel/Exotic Metals
- Pressure Boosters to 40,000 PSI
- Operating Pressures to 10,000 PSI
- Operating Temperatures to 800°F
- Electrically Insulated
- Electronic Feedback
- Valve Package Installation
- Metric Dimensions
- Special Platings
- Water Powered Cylinders
- Mill Type Cylinders
- Non-Rotate Options
- Severe Duty Cylinders
Accessories

- Limit switch actuators available:
  - Mechanical
  - Magnetic
  - Proximity
- Electronic positioning devices
- Valve mounting blocks available
- S.A.F.E. — Self Aligning Flange End
- Uni-Lign — Universal alignment mounting accessory
- Clevis and pivot mounting brackets
- Clevises and pins
- Jam nuts
- Front head spacer bars
- Rod clevis and pins
- Pin and retainer assemblies
- Rod aligning coupler
- Rod eyes

Engineering

Sizes: 1 pint to 50 gallon catalog standards
       Other sizes available
Ratings: 3,000 and 5,000 PSI models standard
        Other pressures available
- Repairable design
- ASME and other code compliance available
- In stock delivery on many sizes

Go to www.sheffercorp.com for 2D and 3D drawings

Complete technical support including:
- Temperatures and fluids
- Theoretical forces
- Mounting information
- Special variations
- Long stroke cylinders
- Stop tube - dual piston chart
- Mounting classes
- Column strength chart