

# Why Eaton Hydraulics?

Eaton Hydraulics is the largest business segment of the Eaton Fluid Power Group and a direct result of Eaton's dedication to leadership in hydraulics for both mobile and industrial applications. Eaton produces not only some of the world's best hydraulic products, but also the best and most complete world-class hydraulic services, systems and solutions.

## From off-road to in-line.

Eaton provides hydraulics to large on-road and off-road mobile OEMs in the agriculture, construction, mining, marine and lawn and garden markets. Eaton is also a major force in providing hydraulic components and systems to leading industrial OEMs.

From world-class engineering capabilities in system design assistance to comprehensive service and technical support after the sale, Eaton Hydraulics is committed to one clear objective – complete satisfaction with all Eaton products and systems, for both industrial and mobile users.

## Designed to your exacting specifications.

Eaton supports the needs of design engineers with products that meet a range of specifications. According to the functional needs of the vehicle or machine, your engineers can consult with Eaton to determine the exact flow, torque and displacement needs of the required components.

## Global distribution.

With distribution through 2000 distributors with 4000 locations worldwide, Eaton meets your needs for ongoing support as well as easy availability of replacement parts. The Eaton distribution network is ideal for meeting the system and component needs of smaller OEMs, too.

So whether your designs require hydraulics that help turn, shape, mold, lift, dig, or haul, Eaton products and systems are engineered for reliable, continuous performance in the world's most demanding and rigorous applications.

## Remanufactured Products.

Eaton also offers an extensive line of Remanufactured parts and components that meet the same exacting standards as the original products, including:

- Eaton brand medium-duty and heavy-duty piston pumps and motors
- Vickers brand vane cartridge kits for pumps and motors
- Vickers brand piston rotating groups and complete units

We are your source for authentic reman products. Our ISO 9001:2000 certified Reman facility stands ready to meet your aftermarket needs.

# World-class brands.

Eaton Hydraulics is comprised of five key brands: Aeroquip, Char-Lynn, Eaton, Hydro-Line, and Vickers, each with well-established reputations not only in North America, but around the world:

## Aeroquip®

Aeroquip brand products serve the industrial, aerospace, and automotive marketplaces. Products include all pressure ranges of hose, fittings, adapters, couplings and other fluid connectors.

## Boston®

Boston brand products include a wide variety of transfer hoses used in diverse markets including the chemical, petroleum, material handling, and food industries. Boston also offers coupling and assembly equipment for most hose applications up to 2"; inside diameter.

## Char-Lynn®

Char-Lynn brand products have continued the tradition of being a well-respected line of hydraulic steering units and general-purpose motors; Char-Lynn is also known for its spool-valve, disc-valve, and high performance motors.

## Eaton®

Eaton products are known for their excellence in engineering and production and include hydrostatic transmissions, valves, pistons and gear pumps and Valve-In-Star™ motors. Eaton brand products are generally more heavily used on mobile equipment.

## Hydro-Line®

Hydro-Line industrial cylinder products complement the Hydraulics cylinder business by making available to customers a broader selection of single-source products that can be easily integrated into a complete Eaton system. Industrial cylinders are used by machine and equipment builders to transfer and apply fluid power in applications that range from automobile production to large hydro-electric projects and off-shore drilling platforms.

## Vickers™

Vickers has long been a pioneer in providing power and motion control components including vane pumps, piston pumps, valves, cylinders and filtration products to the industrial, aerospace, marine and defense industries.

## Weatherhead®

Weatherhead brand products consist of hydraulic hose, hose ends and assembly equipment, tube fittings, and a full range of support accessories. Weatherhead products are supplied to users in industries including construction, mining, agriculture, and truck and bus.

# Learn from the hydraulics experts with Eaton Fluid Power Training.

Knowledge is power. And nowhere can your team strengthen its knowledge more effectively than with Eaton Hydraulics Training.

Attendees can save their company significant dollars by reducing unplanned downtime and maximizing the effectiveness of planned downtime. Each year more than 2,500 people attend training at Eaton Fluid Power Training Centers in Eden Prairie, MN, and Maumee, OH, and Wehrheim, Germany, or through customized on-site programs, worldwide.

Our field and industry specialists combine 140 years of experience in fluid power and education, with the impressive legacy of Vickers and Aeroquip Training. Along with the recent addition of Eaton's 18,000 square foot state-of-art-the-art, world-class training facility in Maumee, Ohio, USA, our training team delivers valuable, practical insight about design, contamination and troubleshooting of hydraulic and pneumatic circuits. The Maumee facility is furnished

with two fully equipped labs, which are complemented by two innovative classrooms for a thoroughly integrated learning experience.

Eaton Fluid Power Training offers more than 15 top-line, hands-on courses for industrial and mobile applications – with other programs and resource materials available for home study. Eaton Fluid Power Training is ideal for maintenance personnel, supervisors, engineers, even purchasing agents.

## With Eaton Fluid Power Training, you can benefit from:

- Immediate access to Eaton experts
- Focused and consistent training
- Two fully-equipped training facilities

- Small class sizes for focused instruction
- Multi-lingual training and worldwide resources
- INVEST, an electrohydraulics home-study program
- Easy-to-read professional publications



Two full-size classrooms and two hands-on instruction labs certify our Maumee facility as one of most highly respected hydraulics training facilities in the world. For an up-to-date class schedule and list of training materials, visit [www.eatonhydraulics.com/training](http://www.eatonhydraulics.com/training) or call 800-413-8809 (US), or 49 (0)6081 103344 (Germany).

## Courses

- Industrial Hydraulics
- Mobile Hydraulics
- Troubleshooting
- Systemic Contamination Control
- Circuit Design
- Pneumatics
- Electrohydraulics
- Cartridge Valves

- Proportional Valves
- Customized training at your location
- Product Training

## Materials

### Manuals:

- Industrial Hydraulics
- Mobile Hydraulics
- Electrohydraulics
- Contamination Control

## Videos:

- Aeration/Cavitation Demonstration
- Introduction to Hydraulic Technology Set
- Test and Repair Series

## Cut-aways:

- Pumps
- Valves
- Motors

## Simulators

- FPT-4e: Double-sided workstation, accommodates 4–6
- Desktop: Self-contained, compact
- Electrohydraulic: Single-sided workstation, accommodates 3–4

## Technical Support and Digital Literature

For technical support and on line product literature please visit <http://www.hydraulics.eaton.com>. Select the "Contact us" link for technical support or the "Product Literature" for up-to-date technical literature on all Eaton Hydraulics products.

## AutoCAD® Symbol Library

To download our Screw in Cartridge Valve Symbol Library for use in designing hydraulic systems, please visit <http://www.hydraulics.eaton.com> and select the "Product Literature" link.