



Facility

A Virginia Corporation since 1979, ServoCon's modern laboratory facilities are located in the heart of the beautiful Shenandoah Valley. A Virginia Corporation since 1989, ALPHA engineering design, production and new parts distribution facility has teamed up with ServoCon to provide all of your fluid power controls, sales—new from ALPHA and service from ServoCon. For two decades, ServoCon and ALPHA engineers, technicians, sales and support staff have been providing the industry's highest quality sales and service in fluid power components.

ServoCon was established to offer a practical alternative to the wasteful practice of discarding instead of correcting servocontrols which had failed. Rather than being put into the hands and test equipment of well trained engineers and technicians, these devices would wind up contaminated and thrown away. Too many times servocontrols and other components were discarded before their usefulness was complete. Companies would install a servocontrol, use it until it failed, buy a new one and throw the old away...again and again. This was an expensive and wasteful practice. There had to be a more economically sound way to keep these systems working. That's why ServoCon was founded. Replace or repair are the two choices when a servocontrol fails. We are continuing to offer solutions to both choices and have diversified, adding many new fluid power products since the beginning.

If it is prohibitively expensive to replace the component, is it really an option? As you will learn, it makes better sense to use the strengths of the equipment—its sound engineering design—and an engineering philosophy based on accurate testing, diagnosis, and cleaning to repair the component and restore it to the original manufacturer's specifications. At ServoCon ALPHA this is done with the right equipment, the right philosophy, and most of all the right people. We have built a unique company based on sound principles that can save our customers tens of thousands of dollars a year. We help them run their businesses more efficiently and economically while always striving for excellence. Servocontrols are designed, built and tested in laboratory environments. We have a state-of-the-art laboratory in which to repair them.

- Fully computerized static and dynamic flow testing
- We use six available flow path circuits to 200 gpm at 5000psi pressure compensated for multi-circuit testing
- Our systems meet military filtration requirements as a standard

Toll Free: 800.447.7747

Fax: 540.337.4901

E-mail: servoconalpha@servoconalpha.com

Control Pacs, Servoactuators

Manufacturers

Alpha, Moog, ABB, Parker, Danfoss, Flight Safety, Hamilton Standard, Racine, Flodyne, Reflectone, Schrader, GE, Sheffer, Hanna, Siemens, Hennels, Teledyne, Hydro-Line, TJ, Hysco, Wabco, Miller, MTS, Westinghouse.

ServoCon ALPHA

ServoCon ALPHA is a leader worldwide selling and repairing electrohydraulic servocontrols for power generation facilities. Servoactuators are a part of the



hydraulic circuit in many servo systems one of which is used to control turbine speed in both steam and gas power generating units. They may also be called ControlPacs. Servoactuators are used in the majority of applications to convert fluid energy into straight line motion.

Servoactuators are manufactured in a variety of diameters, stroke lengths, and mounting styles. They may be classified according to construction, into four types: tie-rod, threaded, welded, and flanged. Servoactuators are also made using retaining rings. The major components of a servoactuator are the control block, head, cap, tube, tie rods, piston, piston rod, rod bearings, and seals. Servoactuators are classified as follows:

- Standard Double-Acting
- Single Acting
- Double-Rod
- Spring Return, Single Acting
- Ram Type, Single Acting
- Telescoping
- Tandem
- Duplex

ServoConALPHA has certified engineers and technicians equipped with the latest technological equipment, calibrated test equipment,

and static and dynamic testing at the component and assembly level. Our engineers and technicians have been trained by major OEMs such as Abex, Atchley, Moog and Ultra (Dowty). With over 30 years of experience, our staff can best provide for your repair or new servo-valve needs. We are confident with our expert staff, competitive pricing, and commitment to fast turnaround. We will meet and exceed your service requirements.

Servovalves

Servovalves are a part of the hydraulic circuit in all systems. Sometimes these units are called servovalves, strokers, unloaders, flow control, pressure control, relief valves, solenoids and check valves. Since 1979 we have been servicing and selling these products to customers all over the world.

We offer valves in five distinct ranges satisfying the needs of all industries. Flow sizes between 0.25 to 225 US gpm (1 to 900 lpm) and working pressures up to 7000 psi (500 bar) are provided. Many designs are produced in an intrinsically safe version



for use in hazardous environments including process plant and underground mining equipment. They range from the interface between low energy electrical signals and high level hydraulic power to simple directional and flow devices that are manually controlled. Servovalves are by far the most complex. They are electrically operated, proportional, directional flow and/or pressure control valves. They are usually four port units incorporating a four land closed center spool sliding either in a bushing or directly in a valve body. Unlike "on-off" solenoid valves, the spool is positioned propor-

tionally to the applied electrical signal thus enabling control of magnitude as well as direction of fluid flow.

Directions

We are located near the intersection of I-81 and I-64. From I-81 take I-64 East. Make the first right on exit 91, then turn right by McDonald's. Turn right on Expo Road. We are one block on the right.

167 Expo Road
Expo Industrial Park
Fishersville, VA 22939
1.800.447.7747

