Electrohydraulic
Solenoids for Mobile
Industrial Applications

precision control
ELECTROHYDRAULIC SOLENOIDS

FOR INDUSTRIAL, MOBILE, AND PROPORTIONAL APPLICATIONS.

WET PIN SOLENOIDS

Wet pin solenoids are designed to operate industrial and mobile hydraulic valves. The moving components of the solenoid are contained in a pressure tight tube assembly, eliminating dynamic seals and potential leaks. Additional advantages include superior life due to hydraulic fluid lubrication of the armature, easy coil replacement without the opening of the hydraulic system, and the ease of valve assembly. Seven basic sizes combined with many optional features allow these solenoids to be tailored to meet your specific requirements. Custom designs are welcome.

CHOICE OF PROVEN DESIGNS

ON-OFF

These solenoids are conventional using high force over short working strokes to achieve either full flow or zero flow from the valve. These solenoids are ideal for a wide range of AC or DC power applications.

PROPORTIONAL

For constant force over the working stroke, these solenoids provide valve designers the ability to develop electrically operated flow or pressure control valves. Their ability to predictably repeat and infinitely vary flow or pressure out-puts from zero to maximum is accomplished by altering the electrical current into the coil. LVDTs can also be added for high precision and repeatability.

PREMIUM MATERIALS AND COMPONENTS ENSURE MAINTENANCE FREE PERFORMANCE

We custom design and manufacture our components to meet the demanding requirements for operation in harsh environments. We pay special attention to material selection, coatings, and plating. Only premium components designed to withstand extreme operating conditions are used.

TECHNICAL OVERVIEW / COMMON OPTIONS

Tube Options

Choice of manual override buttons:
- No Override
- Stainless Steel Override
- Various Seal Compounds
- Extended Length
- Treaded
- Palm Button
- Boot Seal
  - Custom Mounting Thread
  - Flange Mount
  - Fixed Push Rod
  - Captive Push Rod
  - High Pressure
  - Slow Response
  - Cartridge Valve Style
  - Bleed Screw
  - LVDT Directly Mounted For Closed Loop Systems
  - Industrial Plating’s
  - High Frequency Response
  - Custom Force/Stroke Curves
  - Push/Pull
  - Internal Spring

Coil Options

Choice of electrical termination such as:
- Leads
- Conduit With Leads
- 2 Spade
- Internal Ground
- Jet Plug
- Kostal
- Plug-In
- Environmental Sealed
- High and Low Power
- Short and Long Length
- UL/CSA Recognized Insulation
- Intermittent Duty
- Thru Bolt Mounting
- Various Voltages
- Rectified/Varistor
- Arc Suppression
- AC Immune
- Waterproof

Customized LISK proportional and on-off solenoid designs are used in many industrial, commercial, aerospace, and mobile applications. Contact G.W. Lisk or Lisk Ireland Ltd. for further information about the right solenoid to fit your requirements.
TOTAL IN-HOUSE CAPABILITY FOR DESIGN DEVELOPMENT AND MANUFACTURE

Our philosophy of maintaining complete control of the design, manufacture, and quality of LISK products has led to a substantial investment in equipment, facilities, and training. This enables delivery of every order to specification, on time and on budget.

**COMPUTER AIDED DESIGN (CAD)** featuring 3D capabilities.

**CAM: CNC PROGRAMMING** Pro E, Master Cam, Partmaker.

**R&D LABORATORY** Electrical characteristics, operational performance including pneumatic and hydraulic pressure/flow stands, response time, life cycling, evaluation of new processes, features, and new product development are just a few of the many in-house capabilities.

**NDT TESTING & MATERIAL ANALYSIS** Non-Destructive Testing services that includes x-ray, visual, and Dye Penetrant inspection.

**ENVIRONMENTAL TESTING** Including, but not limited to shock, vibration, salt spray, humidity, high (1000F) and low (-150F) temperatures, altitude to 100,000 feet, and other testing as required.

**HYDRAULIC TESTING** Up to 75HP, 60,000 PSI, with a multitude of fluids.

**INTERNATIONAL STANDARDS** Meets or exceeds many international certification standards.

**PACKAGING** Commercial, military, environmental storage, custom, VPCI, and returnable packaging and cleaning.

**MANUFACTURING ENGINEERING** in-house Tool/Machine design and build capabilities. Fully trained technical staff for troubleshooting/repair of machinery and automated equipment to minimize downtime.

**CNC WINDING MACHINES, COMPUTER AUTOMATED TEST STANDS** Reduces time and costs associated with manual testing and eliminates operator error.

**OVER 100 CNC MACHINES** Multi-axis, vertical and horizontal turning / milling, automatic 3D manufacturing cells, and Swiss turning capabilities.

**CNC SCREW MACHINES** Six spindle and eight spindle bar machines.

**WELDING/BRAZING** Electron beam, gas tungsten arc welding, laser, induction, heliarc, spot welding, and brazing.

**PLATING** Cadmium, zinc, electroless nickel, zinc phosphate, chemical film on aluminum, anodize, passivate, Zinc Nickel and others.

**PRESSURE MOLDING** Transfer and injection coil overmolding.

**MISCELLANEOUS** Blanking and forming presses up to 55 ton 2, 4 and 20 ton machines. Surface, center-less, cylindrical, and on-center grinding. Pinch and peel grinding and broaching.
DEDICATED TO CONTINUOUS IMPROVEMENT AND TOTAL CUSTOMER SATISFACTION.

Our investment in equipment and facilities is just part of our commitment to customer satisfaction. We also demonstrate it through the use of statistical process controls, Lean Manufacturing programs and continuous personnel and supplier training. It is this level of dedication and investment that makes LISK a global leader in the design and manufacture of Solenoids, Solenoid Valves, Sensors (LVDT) and Flame Arrestors.

LISK. ACTIVATING THE WORLD.