

Moog Solutions - Gas, Steam, and Aeroderivative Turbines

The Challenge

- Lower system and operating costs, while improving metering and positioning capabilities.
- Ensure reliability, safety, and performance for long service life.



The Moog Solution

- Moog offers both electric and hydraulic solutions for large, small, and medium frame turbines and is uniquely able to work with customers to select the technology that is best for the application.
- Responsive worldwide sales and service support allows for timely and cost effective commissioning, on-site service, and quick turn-around on repairs.
- Moog's proven solution, the 80 series integrated hydraulic actuator assembly, is being enhanced to offer a compact design that requires lower actuation force and continues to provide the same reliability, easy in-field adjustments, and serviceability of the existing product line.
- For customers seeking electric solutions to lower installation and life-cycle cost, Moog offers an extensive line of explosion-proof Electro-Mechanical Actuator Systems in custom configurations.
- Moog offers a complete line of intrinsically-safe and explosion-proof servovalves. Moog customizes servovalve designs to meet specific customer needs.
- Moog Whitton's proven gear pumps provide customers with compact, flexible, and cost-effective options for liquid fuel, lube, or hydraulic oil pressure.
- Moog has a line of hydraulic and electric linear actuators for inlet guide vane and other linear applications.
- Explosion-proof products are available and meet global requirements such as CE, FM, ATEX, and UL certifications.



POWER
GENERATION

MOOG

Moog's Products & Systems - Gas, Steam, and Aero-derivative Turbines

Electro-Mechanical Actuators

- Linear and rotary actuator types.
- Uses the Whitaker pressure balanced process control valve technology.
- Compact integrated approach designed for high temperature environment.
- Customizable with various size servomotors, servodrive configurations, and custom design interfaces.
- Explosion-proof ratings.



880 Series
Electro-Mechanical
Actuator

New 80 Series Hydraulic Actuator

- New more compact design requires lower actuation force.
- Integrates the failsafe spring assembly and Whittaker's pressure balance control valve technology.
- This new product features a modular manifold with a high-performance Moog Servovalve for hydraulic servocontrol, position transducers, an on-board filter, and a spring return for mechanical failsafe protection.



80 Series
Hydraulic Actuator

Whitton VariFlow Liquid Control System



Moog Liquid Fuel Pump

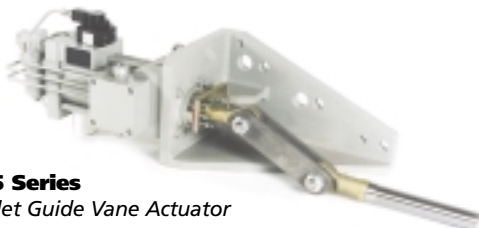
- Packaged pump, motor, and drive system for high accuracy fuel metering.
- Available with fixed speed or Variflow options.
- Available in a wide range of mounting configurations and body ports to international and EM standards.
- Patented self-lubricating pressure balanced bushings, hardened steel drive shafts and proprietary process for gear sets ensure a long service life.

Servovalves

- Moog has over 10,000 servovalves in over 1,000 power plants worldwide.
- Intrinsically-safe and explosion-proof models specially designed for power generation applications.
- Custom models available.



Servovalves



85 Series
Inlet Guide Vane Actuator

Inlet Guide Vane Control Actuators

- Hydraulic and electric versions available.
- Product designs are customizable, energy efficient, and low maintenance.

Complete Products and System Solutions

We have included some products commonly used in power generation applications. As size and performance requirements may vary, Moog has an extensive line of products in other sizes, configurations, and performance attributes. Moog is also known for its ability to customize products and create systems that provide real advantages to customers, and continually develops new products to meet existing and future needs. Ask us for more information or visit www.moog.com/turbineproducts.

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