

ONSHORE AND OFFSHORE SEISMIC EXPLORATION APPLICATIONS

Motion control products and solutions



YOUR EXPERIENCED PROVIDER FOR MOTION CONTROL SOLUTIONS

Moog is a leader in motion control technology and has provided reliable products and solutions for a wide range of industries for more than 65 years, including 35 years serving the oil & gas industry. We meet our customers' needs by providing deep application knowledge, focusing on adding value and delivering fast, responsive global support. Our technology open approach to engineering enables us to offer expertise in electrohydraulic, electromechanical and electrohydrostatic technologies, helping you find the best motion control solution for your application.

We have extensive experience of delivering proven products and solutions for upstream production in oil and gas markets plus downhole and subsea operations. We design and manufacture industry leading motion control technology that the seismic exploration industry can rely on. Onshore and offshore seismic exploration is undertaken in remote and harsh environments that are often at considerable distance from service providers. In such far-flung locations crucial exploration equipment can be exposed to intense vibrations, high forces, extreme temperatures and powerful subsea pressure.

RELIABLE TECHNOLOGY FOR EFFICIENT OPERATIONS

Moog is known for its ability to provide reliable, long-life motion control technology for such demanding operational environments. For many years our engineering experts have supported seismic equipment manufacturers by developing electrohydraulic and electromechanical components that combine ruggedized reliability, low energy consumption, excellent performance and a long service life. For customers who operate in particularly hazardous environments with specific safety regulations, we can also provide the appropriately certificated components that deliver around the clock performance in the most hostile conditions.

As a trusted motion control technology partner for the seismic exploration industry we understand your needs and offer considerable expertise combined with flexible, comprehensive and timely global support that can ensure your equipment operates reliably. No matter how challenging the operational environment we can help keep your applications running effectively, 24/7.

REAL-WORLD APPLICATIONS EXPERIENCE

- Vibrator trucks
- Marine seismic cabling controls

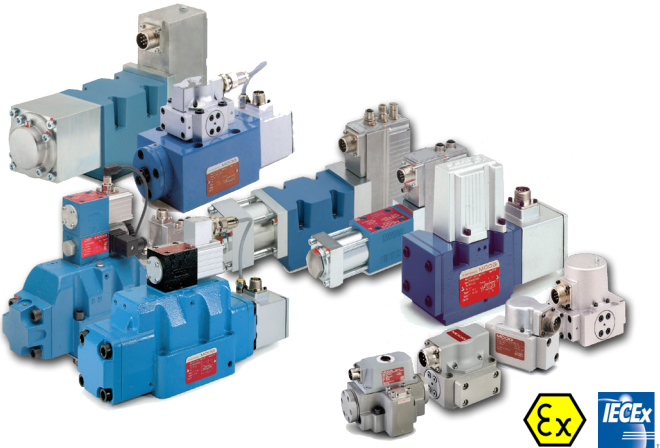
THE OPTIMAL CHOICE FOR SEISMIC EXPLORATION SYSTEMS

- Servo and proportional valves, radial piston pumps, electrohydrostatic pump units, manifolds and brushless servo motors provide precise control of position, velocity and force.
- A broad range of performance specifications and certifications including explosion proof ratings for use in hazardous environments.
- Deep application expertise that provides reliability, low energy use and excellent performance over a long service life.
- World-class repair and maintenance services delivered through Moog Global Support to keep your equipment operating as it should.



HIGH PERFORMANCE, CERTIFIED PRODUCTS

Servo and Proportional Valves



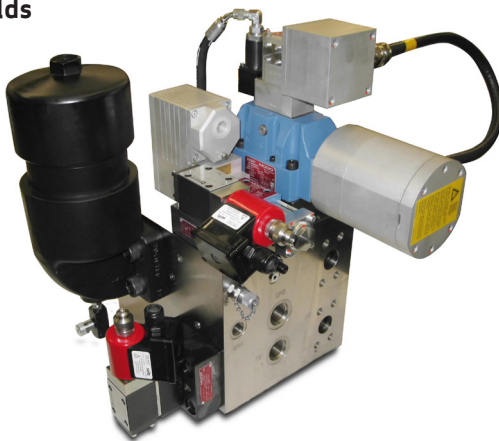
- Direct and pilot operated design
- Analog and digital electronic options
- Various fieldbus interfaces available
- Rated pressure up to 350 bar (5,000 psi)
- Standard, intrinsically safe and hazardous use certified valves available depending on your application needs

Radial Piston Pumps



- Eight pump sizes between 19cc. and 250 cc per revolution available
- Continuous pressure up to 350 bar (5,000 psi) with 420 bar (6,000 psi) peak
- High efficiency with wear-resistant ruggedized designs
- Outstanding longevity for reduced downtime

Manifolds



- Custom built systems tailored specifically for your application needs. Self contained solutions available
- A variety of manifold materials and coatings available to withstand harsh environments
- Benefit from a fully engineered, assembled and tested package
- Reliable, leak-free solutions to minimize downtime and maintenance intervals

Brushless Servo Motors



- Highly dynamic with positioning times of 30 m/sec or less
- Peak torque capabilities up to 240 Nm (2,124 lb / in)
- Flexible and compact designs built for your application
- Completely enclosed unit for long-life durability
- Standard, intrinsically safe and hazardous use certified motors available depending on your application needs

Moog has offices around the world. For more information on Oil & Gas Solutions visit our website our find the office nearest you at:

www.moog.com/industrial

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