



HYDRAULIC ACTUATOR ASSEMBLIES

SmarTEST ACTUATORS FOR AEROSPACE APPLICATIONS

At Moog FCS, we understand that the best aerospace test solutions start with the best components. That's why we focus our expertise and world-class resources on ensuring the core components behind every critical application offer unsurpassed performance, reliability and longevity.

Our family of hydraulic actuators offers products that are perfectly matched to your system to meet a wide variety of specifications and performance parameters. Incorporating industry-leading Moog Servovalves, these hydraulic actuators play a key role in leading aerospace test labs around the world.

ADVANTAGES

- Designed to provide virtually any load/stroke combination to match a wide range of customer needs
- Incorporates fatigue-rated load cells proven on hundreds of applications in test labs around the world
- Provides a virtually infinite fatigue life for long-lasting, robust performance
- Ensures simple integration through variety of mounting options
- Ultra-low friction for high-fidelity loading



AEROSPACE TESTING APPLICATIONS

Moog FCS offers static and fatigue testing, that ranges from complete aircraft to sub-assemblies to components.

- Aircraft/airframe structural tests
- Iron bird tests
- Landing gear tests
- Helicopter airframe, rotor head and blade tests
- Fuselage and cockpit pressurization
- Engine casing tests
- Fin actuation loading tests
- Hydraulic system tests
- Load calibration tests
- Spacecraft structural integrity



Trusted in aerospace test labs around the world, SmarTEST Hydraulic Actuators incorporate Moog Servovalves and Manifolds for precision performance that is perfectly matched to your specific application. Used for decades in a range of demanding applications, our family of actuators helps drive the performance of today's state-of-the-art aerospace test applications.

KEY FEATURES

- General purpose and fatigue rated series of hydraulic actuators
- Suitable for static and dynamic applications
- Internal or external mounted position transducer
- Wide range of loads and strokes
 - Ranges 1 to 5,000 kN (1 to 500 ton)
 - Strokes 10 to 1,000 mm (0.4 to 40 inch)
- Range of ultra-low backlash mounting options
 - Clevis Bracket
 - Spherical Joint
 - Pedestal Base
 - Trunnion
 - Front/rear flange
- High velocity options available for special applications (over 5 m/s (196 in/s))
- Equal area and single ended options
- Compact design

SERVOVALVE OPTIONS

- Two-stage valve
- Dual two-stage valve
- Three-stage valve
- 4 and 5 port models
- Flow-rates from 1 up to 1000 l/m in (25 to 265 g/min)

DISPLACEMENT

- LVDT, Potmeter or Temposonics transducer
- Range 10 to 1,000 mm (0.4 to 40 inch)

FORCE TRANSDUCER

- Stainless or alloy steel construction
- Dual, single and triple bridge types
- ASTM/NAMAS traceable calibration
- High accuracy coupled with long-term stability
- IP 67 sealed
- Fatigue rated
- Excellent resistance to side- and off-axis loading

This technical data is based on current available information and is subject to change at any time by Moog FCS. Specifications for specific systems or applications may vary.

Moog FCS has offices around the world. For more information or the office nearest you, contact us online.

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