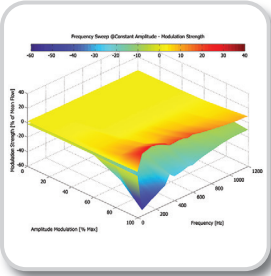


Electronic Controls



Analog and digital electronic control units designed to optimize device performance for each specific application

Testing



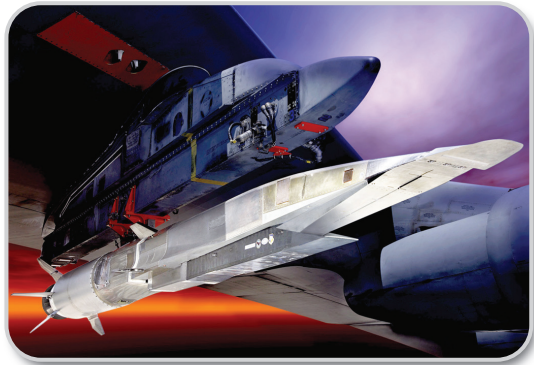
JASC has substantial and diversified testing capabilities including shock, vibration, thermal and high pressure pneumatics to facilitate new design validation



Aerospace



Defense



Research



Space

JASC Products

Single And Two-Stage Servo Valves

FlexJet® Servo Valves

Pressure-Compensated Servo Valves

Fuel Control Valves

Complete Fuel Control Systems

Cryogenic Valves

Expansion Valves

High-Temperature Valves and Controls

Servo Actuators

Electromechanical Actuators

Pneumatic Actuators

Hydraulic Actuators

Adaptive Combustion Control Systems

Relief and Check Valves

Pressure Regulators

Flow Dividers

Metering Pumps

Solenoid Valves

Proportional Solenoids

Electronic Control Units



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www.jasc-controls.com

JASC is a provider of innovative solutions for today's most advanced and challenging aerospace programs.

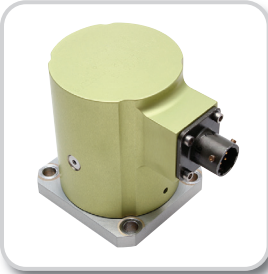
Beginning with the SR-71 Blackbird J-58 turbine engine and the RL-10 rocket engine, JASC has proven experience developing unique and cost effective solutions for a wide variety of applications including:

- Aerospace fluid controls and actuators
- Turbine APU valves and actuators
- Rocket engine fuel controls and actuators
- Hypersonic research engine controls

Servo Valves



Three-way servo valve used on a commercial aircraft APU



Direct drive, 3-way servo valve used for military sonobouy deploy/retract system



Two-stage, 4-way, hydraulic servo valve for use in robotic arm control



FlexJet® pneumatic servo valves and actuators used in military situation simulators

Capabilities include:

- 3D solid modeling
- Dynamic simulation, finite element analysis (FEA) and computational fluid dynamics (CFD)
- Testing – gaseous and liquid flow, high-pressure and temperature, cryogenic, vibration, shock
- Manufacturing of R&D quantities to high-volume production
- Cleanroom
- ISO 9001:2008 and AS9100 Certified
- FAA and EASA Repair Station

Actuators



Servo hydraulic/fueldraulic actuators for spacecraft engine thrust vector control and flight control surface positioning



Fueldraulic inlet guide vane actuator used on a large commercial aircraft APU

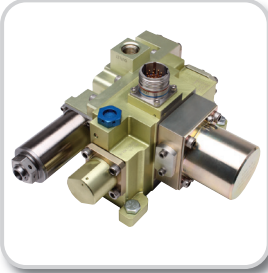


Hydraulic linear actuator with FlexJet® servo used to accurately position injector pintle for a throttlable rocket engine

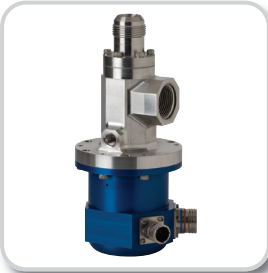


High-temperature, compressor vane control actuator for a supersonic gas turbine engine

Fluid Management



Integrated fuel metering system used on a large commercial aircraft APU



Cavitating pintle valve for thrust control on a liquid fuel rocket engine



High-efficiency refrigerant pump used in portable power and A/C system for the US military



Electronic pressure regulator for precise control of fuel tank pressure



Internally pilot-operated solenoid valve with position indication for oxidizer management on a space vehicle



Direct drive and pilot operated high pressure/high flow solenoid valves for precise pressure control of propellant tanks for crew capsule RCS and OMAC systems



Adaptive combustion control valve for suppression of thermo-acoustic instabilities in gas turbine engine combustors and augmentors



Bi-propellant turbopump throttle valve used on an upper stage rocket engine



Fast-acting, high-flow solenoid valve for rapid pressurization of propellant tanks for a crew capsule launch abort system



Externally pilot-operated, high-flow solenoid valve with position indication for oxidizer management on a space vehicle