Programs

ITT Aerospace Controls’ product lines are continually expanding to provide our customers with solutions for applications in commercial, business and civil aviation, as well as military and cargo aircraft. Our extensive knowledge and experience within these applications enables us to provide our customers with superior products, services and support.

Commercial Programs
• Boeing 707, 717, 737, 747, 757, 767, 777, 787, DC9, MD90, MD11, MD80
• Airbus A310, A320, A330, A340, A350, A380

Military Programs
• Boeing F-15, F-16, C-17, KC-135, F/A18, MD80
• Lockheed Martin C-130, F-22, F-35, C-5, C-32
• Airbus A320, A330, A400M
• Southern California Edison, Radar Systems
• Eurofighter, JAS39 Gripen
• General Dynamics, F-35
• Rolls Royce, Viper-42

Regional and Business Jets
• Embraer 120, 140, 170, 175/1700, 190/195, Legacy 600, Premier 1H, Lineage 1000
• Cessna 152, 182, 206, 210, 550, 550C, 510, 730
• Gulfstream G100, G200, GIV, GV, G600
• Bombardier BD100, BD200, Global Express
• Canadair CRJ700, CRJ200, CRJ500
• BAE Systems, F-18E, X2000/IX, 7X
• Learjet C-760

Helicopters
• AgustaWestland AW101, AW109, AW129, AW139, AW149, NH90, NH80, NH70
• Bell 206, 407, 412, 427, 429
• Eurocopter EC130, A365, EC155, EC145, EC225, Dauphin, HH-65A
• Sikorsky UH-60

System Applications for Aerospace Products

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Fuel Systems

Hydraulic Systems

Valves

- Ball
- Butterfly
- Gate
- Solenoid

Typical Applications

1. Engine Feed Switch
2. Opto Actuator
3. Fuel Transfer Valve
4. Crossfeed Valve
5. Low Pressure Switch
6. Dual Motor Actuator
7. Engine Feed Pumps

- Fuel
- Hydrualic
- Pneumatic
- PAD Coolant

Features

- Line size 0.25 to 1.5" diameter for ball valves
- Floating and supported ball valves
- Gate size: 1 to 1.1" diameter for gate and butterfly valves
- Thermal relief available

Rotary Actuators

- Opto-Electronic
- Single Motor Upright
- Single Motor Low Profile
- Dual Motor Low Profile
- Brushless Motor High Torque
- Dual Brushless Motor

Typical Applications

- Fuel
- Hydraulic
- ECS
- Lavatory Systems
- PAO Coolant

Features

- Typically up to 150 inch lbs. torque
- 1:1 to 14 second operating time
- Manual indicator/override option
- High reliability switching

Linear Actuators

- Motor ACME Screw
- Motor Ball Screw
- Brush Motor
- Brushless Motor

Typical Applications

- Step
- Trim Control
- Fuel Control
- Doors and other utility actuation

Features

- 0.5 to 6.5 inch stroke
- Typically up to 700 pound operating load
- ACME screw and spur gear drive
- Two position or modular

Switches

- Pressure
- Air Temperature
- Flow
- Limit
- Differential

Typical Applications

- Fuel
- Hydrualic
- ECS
- Engine Ignition
- Oxygen

Features

- Stable set points eliminating recalibration
- Spring action butterfly valve actuation: for high cycle environment
- High reliability in hostile environments
- Qualified product listing per MIL-STD-9395/27

Pumps

- Fuel Boost
- Fuel Overide
- Scavenge
- Potable Water

Typical Applications

- Fuel
- Water
- PAD Coolant

Features

- Ability to run dry
- High reliability
- FAR 25.881 and SFAR88 Compliant

Water Systems

Utility Systems

- Pressure Boost Water Pump
- Flow Control Valve
- High Pressure Switch
- Low Pressure Switch

Typical Applications

- Wastewater Level Sensor
- Toilet Flush Actuator
- Grey Water Drain Valve
- Emergency Comfort Flow Switch
- OBIGGS, OBOGS Pressure and Temperature Switches, Valves
- ECS Ram Air Door Linear Actuator
- Emergency Ram Air Door Linear Actuator

Solutions for Aviation Programs

Commercial and Defense Aviation Solutions