

# 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 Transport

- Boeing 707, 717, 737, 747, 757, 767, 777, DC8, DC9, MD11, MD80
- Airbus A320 Series, A330, A340, A350, A380

### Military Programs

- Boeing F-15, F-18, C-17, KC135, CH47, V22, AH64, B52, 707, 767 Tanker, P-8A Poseidon
- Lockheed Martin F-16, F-22, F-35, C-130J
- Airbus A330MRTT, A400M
- Raytheon Paveway Missile, Radar Systems
- Eurofighter, JAS39 Gripen
- General Dynamics M1A1
- B1B, Northrop Grumman B2

### Regional and Business Jets

- Embraer 120, 135, 145, 170/175, 190/195, Legacy 600, Phenom 100, Lineage 1000
- Cessna 172, 182, 208, 525, 550, 560, 650, 750
- Gulfstream G100, G200, GIV, GV, G650
- Bombardier 604, DHC-8/Q400, Global Express
- Canadair CRJ100/200, CRJ700, CRJ1000
- Dassault Falcon 50, F900/EX, F2000/EX, 7X
- Learjet CL600

### Rotorcraft

- AgustaWestland AW101, AW109, AW129, AW139, AW149, NH90
- Bell 206, 407, 412, 427, 429
- Eurocopter AS332, AS365, EC175, EC225, EC275, Dauphin, HH-65A
- Sikorsky UH-60

# System Applications for Aerospace Products



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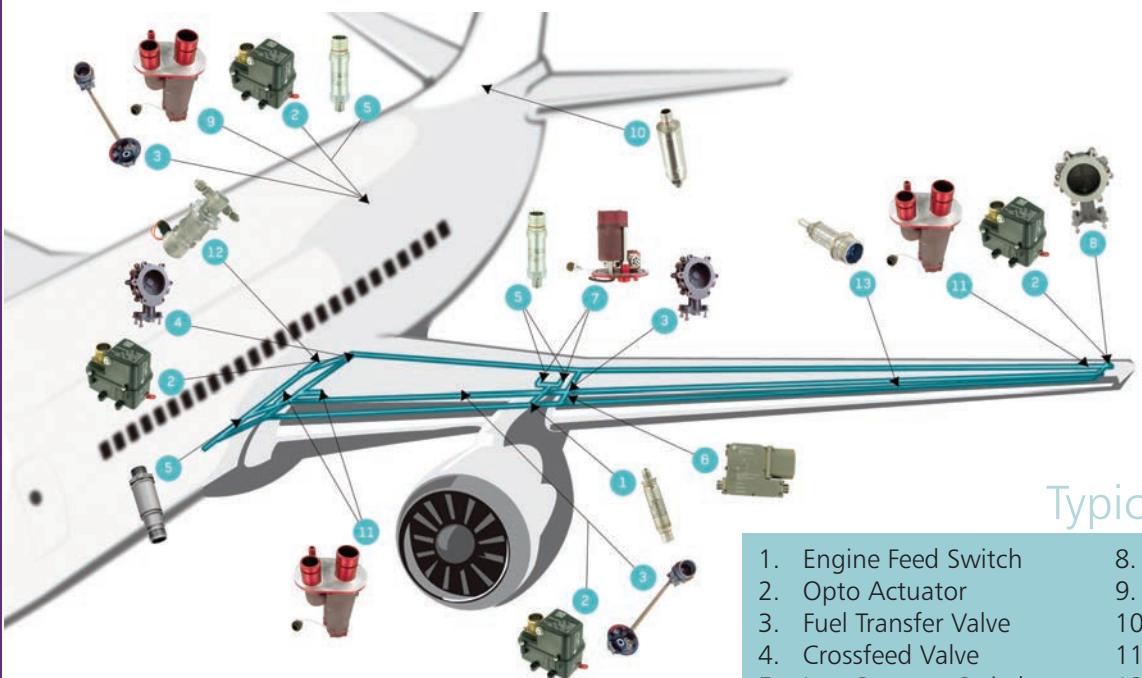
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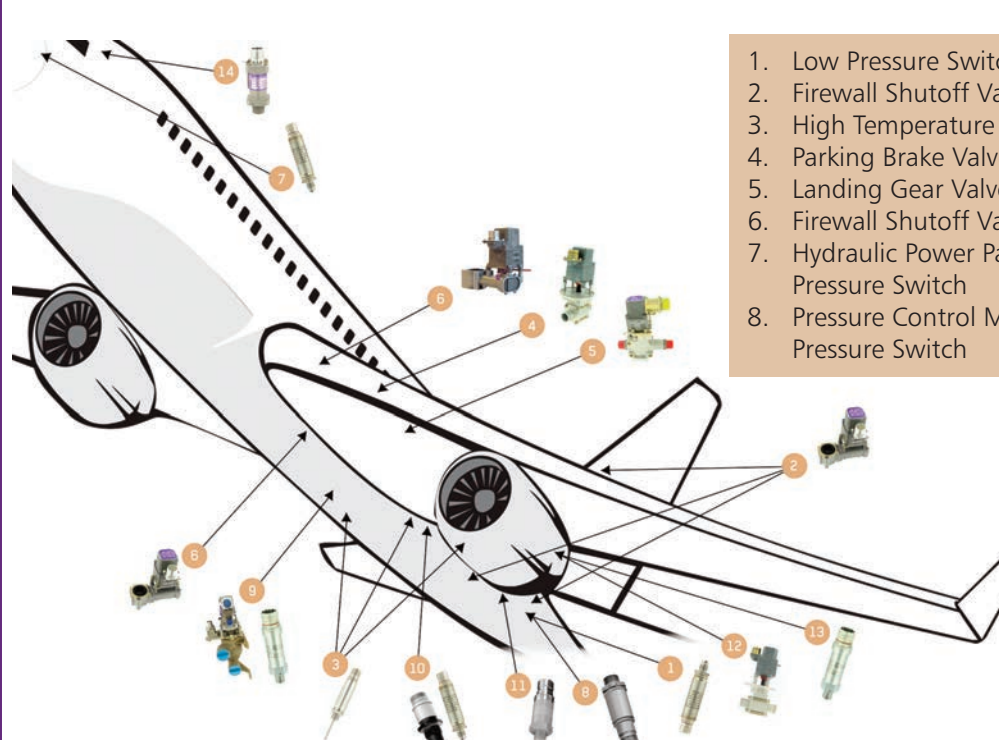
### Fuel Systems



#### Typical Applications

1. Engine Feed Switch	8. Jettison Valve
2. Opto Actuator	9. APU Transfer Pump
3. Fuel Transfer Valve	10. APU Feed Switch
4. Crossfeed Valve	11. Override Jettison Pump
5. Low Pressure Switch	12. Scavenge Pump
6. Dual Motor Actuator	13. Fuel Temperature Switch
7. Engine Feed Pumps	

### Hydraulic Systems



#### Typical Applications

1. Low Pressure Switch	9. Selector Valves
2. Firewall Shutoff Valve	10. Filter Module Pressure Switches
3. High Temperature Switch	11. Reservoir Low Pressure Switch
4. Parking Brake Valve	12. Thrust Reverser Valve
5. Landing Gear Valve	13. Thrust Reverser Switch
6. Firewall Shutoff Valve	14. Nose Gear Pressure Switch
7. Hydraulic Power Package Pressure Switch	
8. Pressure Control Module Pressure Switch	

Valves		
Types	Typical Applications	Features
<ul style="list-style-type: none"><li>• Ball</li><li>• Butterfly</li><li>• Gate</li><li>• Solenoid</li></ul>	<ul style="list-style-type: none"><li>• Fuel</li><li>• Hydraulic</li><li>• Pneumatic</li><li>• Water</li><li>• PAO Coolant</li></ul>	<ul style="list-style-type: none"><li>• Line size 0.25 to 1.5" diameter for ball valves</li><li>• Floating and supported ball valves</li><li>• Line size 1 to 11" diameter for gate and butterfly valves</li><li>• Thermal relief available</li></ul>

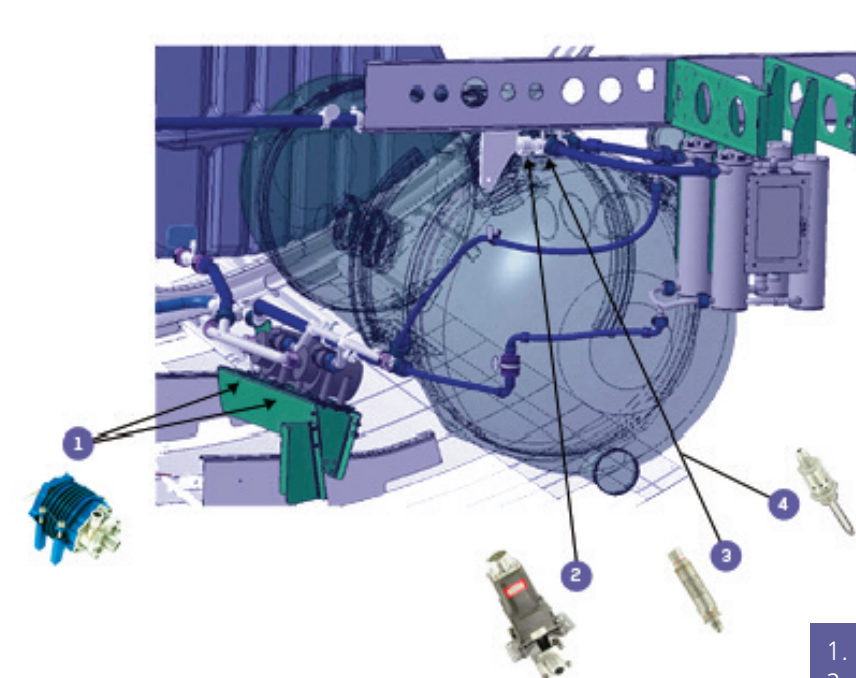
Rotary Actuators		
Types	Typical Applications	Features
<ul style="list-style-type: none"><li>• Opto-Electronic</li><li>• Single Motor Upright</li><li>• Single Motor Low Profile</li><li>• Dual Motor Low Profile</li><li>• Brushless Motor High Torque</li><li>• Dual Brushless Motor</li></ul>	<ul style="list-style-type: none"><li>• Fuel</li><li>• Hydraulic</li><li>• ECS</li><li>• Lavatory Systems</li><li>• PAO Coolant</li></ul>	<ul style="list-style-type: none"><li>• Typically up to 150-inch lbs. torque</li><li>• &lt; 1 to 14 second operating time</li><li>• Manual indicator/override option</li><li>• High reliability switching</li></ul>

Linear Actuators		
Types	Typical Applications	Features
<ul style="list-style-type: none"><li>• Motor ACME Screw</li><li>• Motor Ball Screw</li><li>• Brush Motor</li><li>• Brushless Motor</li></ul>	<ul style="list-style-type: none"><li>• Step</li><li>• Trim Control</li><li>• Fuel Control</li><li>• Doors and other utility actuation</li></ul>	<ul style="list-style-type: none"><li>• 0.5 to 6.5 inch stroke</li><li>• Typically up to 700 pound operating load</li><li>• ACME screw and spur gear drive</li><li>• Two position or modular</li></ul>

Switches		
Types	Typical Applications	Features
<ul style="list-style-type: none"><li>• Pressure</li><li>• Temperature</li><li>• Flow</li><li>• Limit</li><li>• Differential</li></ul>	<ul style="list-style-type: none"><li>• Fuel</li><li>• Hydraulic</li><li>• ECS</li><li>• Engine</li><li>• Missile Ignition</li><li>• Oxygen</li></ul>	<ul style="list-style-type: none"><li>• Stable set points eliminating recalibration</li><li>• Snap action Belleville Spring actuation for high cycle environment</li><li>• High reliability in hostile environments</li><li>• Qualified product listing per MIL-STD-9395/27</li></ul>

Pumps		
Types	Typical Applications	Features
<ul style="list-style-type: none"><li>• Fuel Boost</li><li>• Fuel Override</li><li>• Scavenge</li><li>• Potable Water</li></ul>	<ul style="list-style-type: none"><li>• Fuel</li><li>• Water</li><li>• PAO Coolant</li></ul>	<ul style="list-style-type: none"><li>• Ability to run dry</li><li>• High reliability</li><li>• FAR 25.981 and SFAR88 Compliant</li></ul>

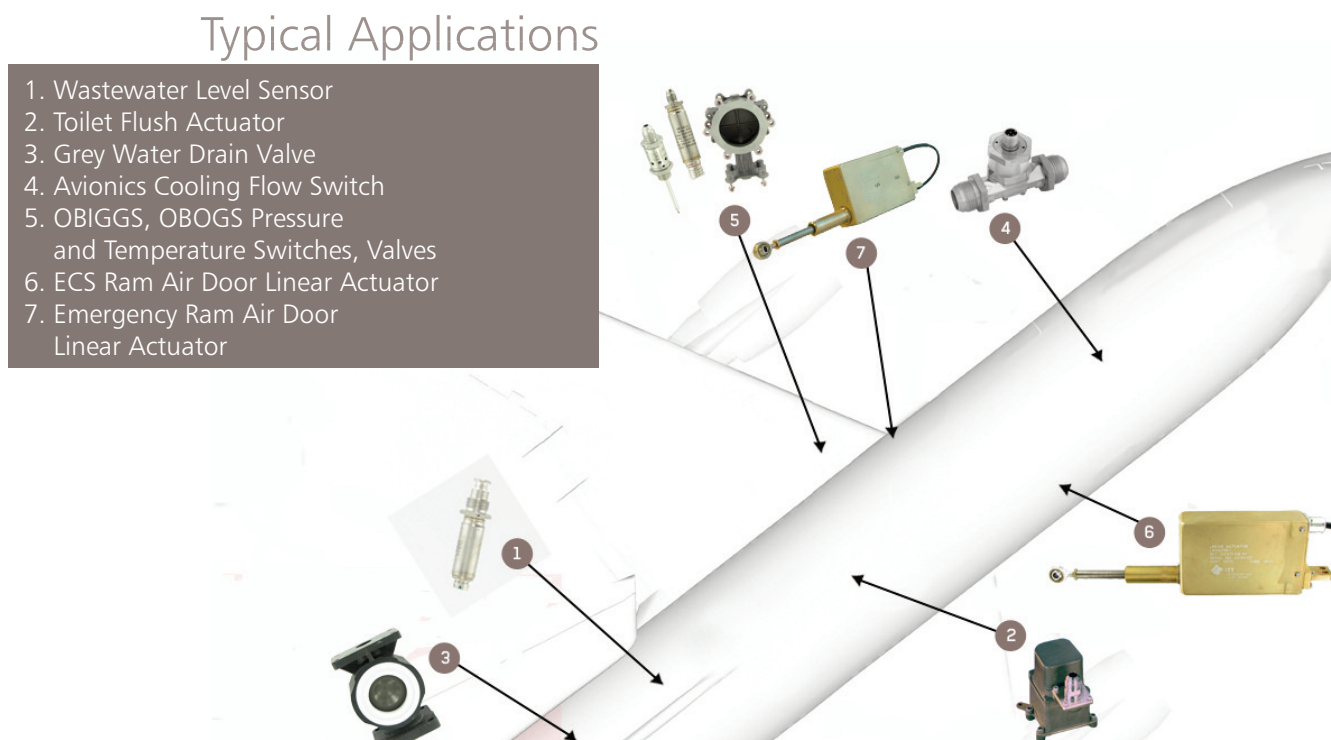
### Water Systems



#### Typical Applications

1. Pressure Boost Water Pump
2. Flow Control Valve
3. Low Pressure Switch
4. High Temperature Switch

### Utility Systems



#### Typical Applications

1. Wastewater Level Sensor
2. Toilet Flush Actuator
3. Grey Water Drain Valve
4. Avionics Cooling Flow Switch
5. OBIGGS, OBOGS Pressure and Temperature Switches, Valves
6. ECS Ram Air Door Linear Actuator
7. Emergency Ram Air Door Linear Actuator