

## Key Customer Platforms

### Commercial Transport

- Boeing 707, 717, 737, 747, 757, 767, 777, DC8, DC9, DC10, MD11, MD80
- Airbus A320 Series, A330, A340, A350, A380
- Comac C919

### Military

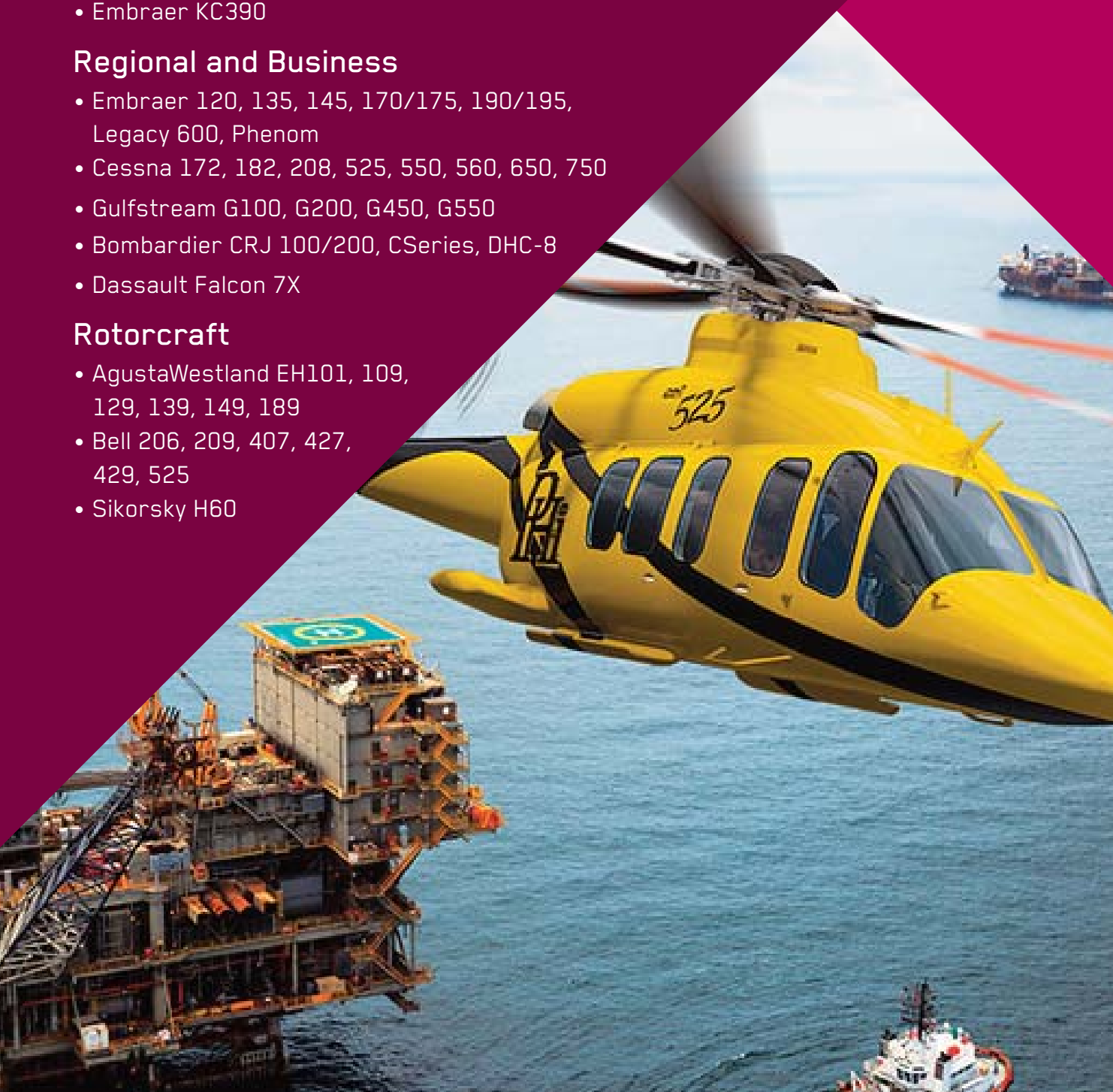
- Boeing F15, F18, C17, KC135, CH47, V22, AH64, B52, 707, 767 Tanker, P8A Poseidon
- Lockheed Martin F16, F22, F35, C130J, P3
- Airbus A330MR TT, A400M
- Embraer KC390

### Regional and Business

- Embraer 120, 135, 145, 170/175, 190/195, Legacy 600, Phenom
- Cessna 172, 182, 208, 525, 550, 560, 650, 750
- Gulfstream G100, G200, G450, G550
- Bombardier CRJ 100/200, CSeries, DHC-8
- Dassault Falcon 7X

### Rotorcraft

- AgustaWestland EH101, 109, 129, 139, 149, 189
- Bell 206, 209, 407, 427, 429, 525
- Sikorsky H60



## ITT Aerospace Controls Aerospace Valves

For more product information, email us at:  
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# ITT Aerospace Controls offers a wide range of low weight, high strength and reliable high performance valves for a variety of aerospace applications.

## Fuel Systems

- Butterfly, Gate, Ball, Plug
- Leakage: 0.5 cc/min or less
- Minimal pressure drop
- Thermal relief option available
- Compliant to SFAR 88 FAR 25.981 available with actuator
- Remote mounting with adapter shaft option available
- Composite material for weight reduction available



Highly Engineered

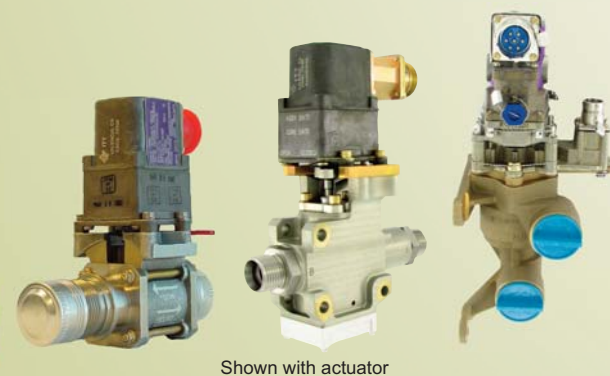
Reliable

Proven Solutions

Fully Customizable

## Hydraulic Systems

- Gate, Ball, Spool & Sleeve
- Leakage: 0.5 cc/min or less
- Minimal pressure drop
- Thermal relief option available
- Low pressure and high pressure
- Redundant position indication on valve body available



## Water & Coolant Systems

- Ball and Plug
- Leakage: 1 drop per 3 minutes minimum
- Minimal pressure drop
- Freeze resistant
- Modular valves available
- Potable and grey water



## Pneumatic Systems

- Butterfly, Ball and Solenoid
- Fast response
- High temperature capabilities
- High/low flow control
- Remote mounting with adapter shaft option available




## MANUAL, SOLENOID AND ELECTRO-MECHANICAL VALVES FOR AEROSPACE APPLICATIONS

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 with a focus on reliability, including HALT, enables us to provide our customers with superior products, services and support. Environmental / EMI testing per RTCA-D0160 and customer specifications. Rapid prototyping is available.

### Butterfly Valves\*


<b>Sizes:</b>	2 inches to 9 inches	
<b>Pressure:</b>	Operating	120 psig
	Proof	240 psig
	Burst	360 psig
<b>Temperature:</b>	Ambient	-65° to 225° F
	Fluid	-65° to 255° F
<b>Operating Time:</b>	0.5 to 10 seconds	
<b>Thermal Relief:</b>	Cracking	70 psig
	Reseating	5 psig
<b>Pressure Drop:</b>	2" Line size (fuel): Less than 0.25 psig at 60 psig and 25,000 PPH	
<b>Internal Leakage:</b>	Less than 0.5 cc/min	
<b>Fail-Safe:</b>	Moves to open/close position upon power removal	



Shown with actuator

### Gate Valves\*


<b>Sizes:</b>	1 inch to 9 inches	
<b>Pressure:</b>	Operating	100 psig
	Proof	200 psig
	Burst	400 psig
<b>Temperature:</b>	Ambient	-65° to 225° F
	Fluid	-65° to 255° F
<b>Operating Time:</b>	0.5 to 10 seconds	
<b>Thermal Relief:</b>	Cracking	450 psig
	Reseating	5 psig
<b>Pressure Drop:</b>	2" Line size (fuel): 0.064 psig at 130 GPM	
<b>Internal Leakage:</b>	Less than 0.5 cc/min	



Shown with actuator

### Ball and Plug Valves\*


<b>Sizes:</b>	0.5 inch to 1.5 inches	
<b>Low Pressure:</b>	Operating	100 psig
	Proof	150 psig
	Burst	300 psig
<b>High:</b>	Operating	3000 psig
	Proof	4500 psig
	Burst	7500 psig
<b>Temperature:</b>	Ambient	-65° to 225° F
	Fluid	-65° to 255° F
<b>Operating Time:</b>	0.5 to 10 seconds	
<b>Thermal Relief:</b>	Cracking	450 psig
	Reseating	5 psig
<b>Pressure Drop:</b>	1" Line size (Skydrol): 3.95 psig at 62.5 GPM	
<b>Internal Leakage:</b>	Minimum is 1 drop per 3 minutes	
<b>Multi-Port/Position:</b>	2, 3, and 4 port/position available	



Shown with actuator


### Solenoid Valves\*

<b>Sizes:</b>	0.25 inch to 0.75 inch	
<b>Pressure:</b>	Operating	1200 psig
	Proof	1725 psig
	Burst	2595 psig
<b>Temperature:</b>	Ambient	-65° to 260° F
	Fluid	-65° to 314° F
<b>Operating Time:</b>	20 Milliseconds	
<b>Pressure Drop:</b>	2 psig max at 20 GPM	
<b>Internal Leakage:</b>	Less than 1.1 cc/min	



### Spool & Sleeve Valves\*


<b>Sizes:</b>	0.5 inch to 5/8 inch	
<b>Pressure:</b>	Operating	3000 psig
	Proof	4500 psig
	Burst	7600 psig
<b>Temperature:</b>	Ambient	-65° to 160° F
	Fluid	-65° to 160° F
<b>Operating Time:</b>	0.5 to 10 seconds	
<b>Pressure Drop:</b>	140 psig at 15 GPM	
<b>Internal Leakage:</b>	Less than 15 cc/min	
<b>Multi-Port/Position:</b>	2, 3, and 4 port/position available	



Shown with actuator

### Custom Valves\*

<b>Sizes:</b>	0.5 inch to 7 inches	
<b>Combinations:</b>	Butterfly and Ball Valve, Ball and Ball Valve, Dual Wall (or Shrouded) Valve	
<b>Pressure:</b>	Operating	3000 psig
	Proof	4500 psig
	Burst	7600 psig
<b>Temperature:</b>	Ambient	-65° to 160° F
	Fluid	-65° to 160° F
<b>Operating Time:</b>	0.5 to 10 seconds	
<b>Pressure Drop:</b>	1 inch line size (Skydrol): 3.95 psig at 62.5 GPM	
<b>Internal Leakage:</b>	Less than 0.5 cc/min	



\* Specifications referenced above are typical. For custom requirements, please contact [info.aerospace@itt.com](mailto:info.aerospace@itt.com)