



# Aerospace Application Solutions

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

We recently introduced rotorcraft applications to our line of products & services to expand upon our inventory of aircraft parts. Aircraft components have always been a part of our product line with parts such as anti-icing valves, fuel temperature switches, even landing gear valves. With the addition of rotorcraft applications, we will be able to provide more specialized pieces to keep any aircraft up and running to industry standards.



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# Aerospace Valve Products



# Aerospace Controls offers a wide range of low weight, high strength and reliable high performance valves for a variety of aerospace applications.

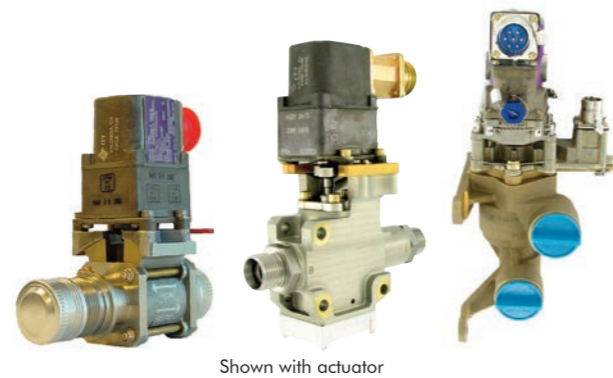
## Fuel Systems

- 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



## 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



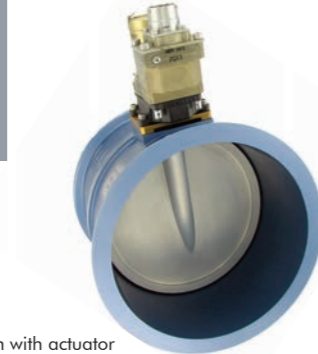
## Water & Coolant Systems

- 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 and Ball
- 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

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\*

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



### Gate Valves\*

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



### Ball and Plug Valves\*

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



### Spool & Sleeve Valves\*

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



### Custom Valves\*

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