

JETCRUZER 500



ITT Aerospace Controls has recently been awarded a contract to supply the firewall fuel shutoff valve P/N AV24B1473 for the new Advanced Aerodynamics & Structures, Inc. (AASI) JETCRUZER 500 single engine executive aircraft. The JETCRUZER 500 is one of the most advanced six passenger type of aircraft to date and features the latest in composite materials and manufacturing processes.

Some of the highlight of this aircraft include:

- Manufactured as the worlds fastest executive single engine propjet
- The world's lowest priced corporate propjet
- The first to FAA certify an aircraft using an advanced lightweight graphite composite main structure fuselage with an all metal wings
- The worlds first "spin resistant" FAA certification

In order achieve the high speed (360 MPH @

30,000 ft.) and passenger comfort, AASI elected to equip the JETCRUZER with a single Pratt & Whitney PT6A-66A turbo shaft engine that develops 1,572 ESHP. The engine is geared to a high performance, 7 ft. diameter, 5 blade Hartzel propeller.

As with all aircraft of this type and larger, the requirement exists to provide a means to shutoff the supply of fuel to the engine at the firewall. AASI was looking for a highly reliable valve to meet this requirement within the design to cost goal. ITT Aerospace Controls was able to provide an existing motor operated 2 position 2 way ball valve design to meet the requirement as well as accomplish the qualification requirements by similarity to other programs and similar valve designs. In addition, by using existing designs, ITT was able to meet the customers short delivery requirements.