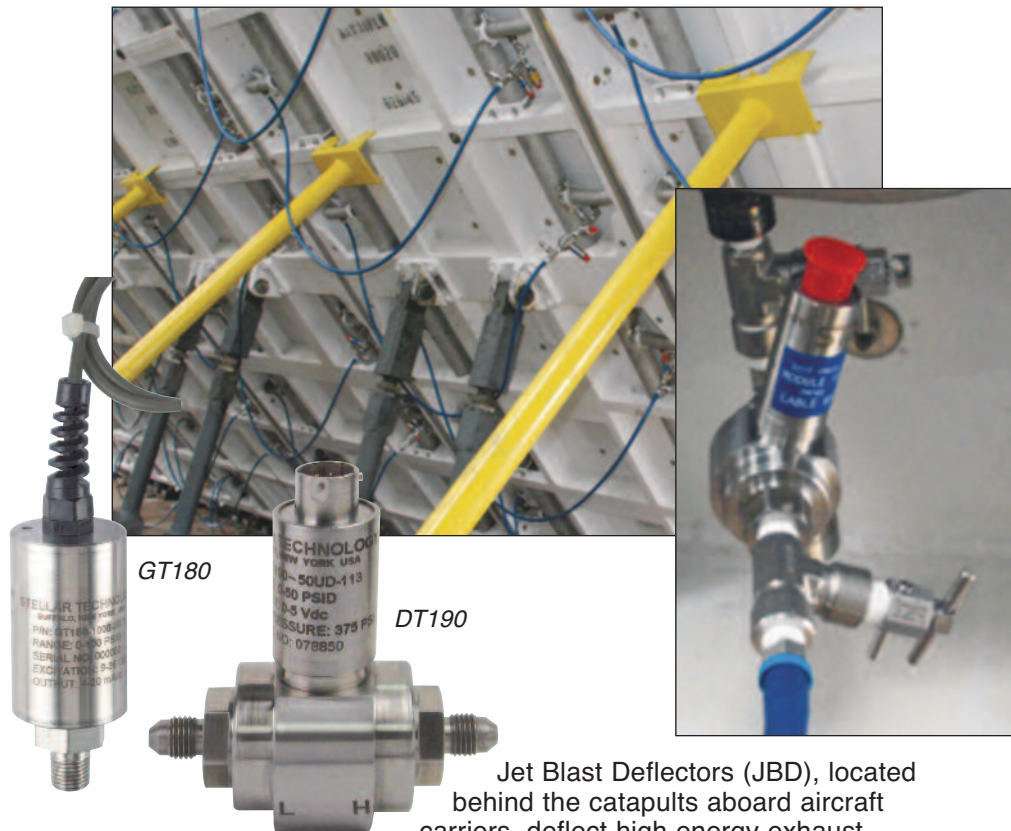


Differential Transducers

Pressure Units Monitor Jet Blast Deflector Test

Product HiLites



Jet Blast Deflectors (JBD), located behind the catapults aboard aircraft carriers, deflect high energy exhaust from the jet engines to prevent damage and injury to other aircraft and personnel located in close proximity. After use, the JBD quickly retracts flush into the flight deck so that people and other aircraft can move across. An elaborate system pumps coolant fluid through the panels to dissipate the intense heat focused onto the JBD by the aircraft engines, cooling it enough to protect the crew and prevent damage to the tires of aircraft rolling across the retracted panel.

When it becomes necessary to modify the JBD to accommodate new aircraft, the configuration needs to be tested to insure that the cooling capability is sufficient. The test stand for this critical cooling system records 103 parameters, including the overall flow rate, to determine the effectiveness of the new configuration. The test uses 57 Stellar Technology Series GT180 transducers to monitor the supply and outlet pressures, and 45 Stellar Technology Series DT190 differential pressure transducers located throughout the system.

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