

TechSystems

Aerospace Check Valve Performance Evaluation

Problem Statement

Conduct flow mapping and dynamic performance testing to characterize valve performance and validate design of a pneumatic check valve used in aerospace application



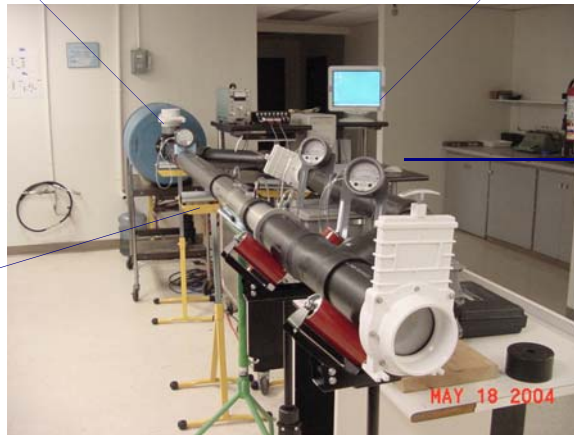
Low Pressure Performance Measurement



Digital Data Acquisition



Flow and Flapper Performance Visualization



Technical Solutions All Wrapped Up



Upstream & Downstream Flow Characterization



Quick Reaction to Customer's Requirements

Customer's engineering sketches and brief statement of objectives transformed by the TechSystems team into a fully functional pneumatic flow test bed capable of providing 11 lb/min @ 20" H₂O differential pressure including incorporation of appropriate instrumentation for real-time monitoring and tailored digital data acquisition subroutines for data gathering. Prototype test hardware fabricated, early flow mapping and dynamic performance testing successfully performed in less than **10 days** from authority to proceed — **well within the Customer's critical timeline!**

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