

*"After carefully investigating other valves, both pressure independent and conventional, we decided that Flow Control Industries' DeltaPValve was far superior in both construction and operation."*

- DARIN SMITH  
Chilled Water Plant Manager

# DUKE UNIVERSITY

## Fast Facts

### Location

Durham,  
North Carolina

### Industry

Private University

### Campus Size

12.2M square feet

### Project Type

Progressive retrofit &  
standard of design for  
all new construction

## PROBLEM

Poor chilled water control throughout the campus buildings made the new chilled water plants unable to satisfy the cooling demands. A major reduction in system flow was needed to fully utilize the new infrastructure.

## SOLUTION

Systematic retrofit of air-handling unit chilled water control valves in buildings across campus with DeltaPValves to improve system performance.

## IMPACT

- Restored 1,500 tons of cooling capacity
- Reduced summer steam consumption due to improved control at the air-handling units
- Improvement in campus chilled water Delta T from 12.5 to 16.5°F on design days
- \$17MM in capital expenditures avoided by delaying full plant buildout for 5 years