



ensuring environmental integrity

Accel[®] II Airflow Control Valves

Pressure Independence

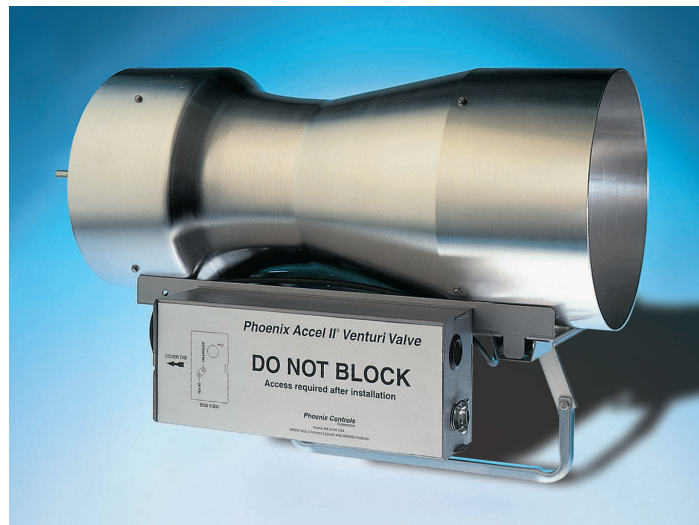
True Pressure Independence

Anything less may cost you more.

When a building has critical airflow control requirements, testing, adjusting and balancing (TAB) can be difficult and time-consuming. Without the right device, you may find yourself doing it over and over. Eliminate these redundant efforts by installing the Accel[®] II venturi valve. Its true pressure-independent performance and factory characterization save time and money by reducing TAB time and ensuring stability in room pressurization.

Benefits

- Factory characterization reduces TAB time
- Long-term system stability assured with true pressure independence
- No routine maintenance



Reduce testing and balancing.

TAB time is drastically reduced with the Accel II venturi valve because every valve is factory characterized with a 48-point flow curve on NIST-calibrated airstations at our US headquarters. This means that as soon as the valves are installed, most of the system commissioning can be completed before the HVAC system fans are ever turned on.

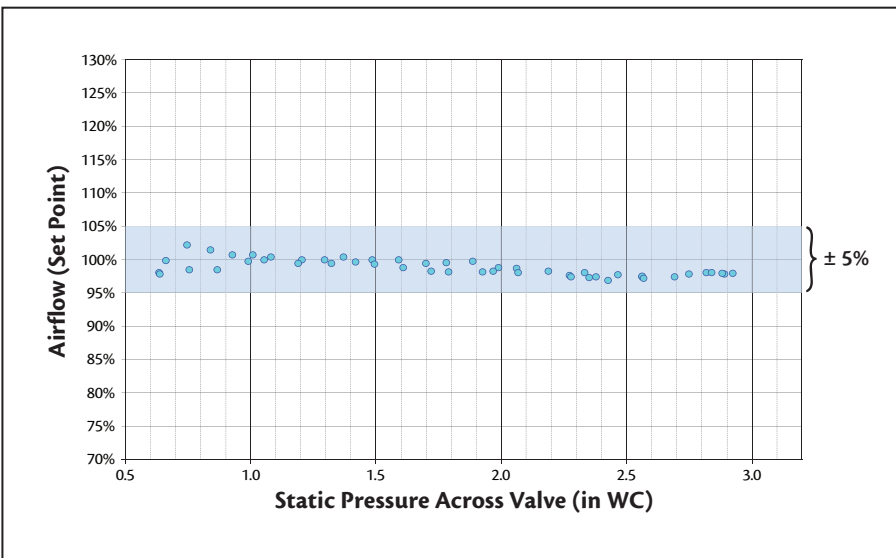
True pressure independence ensures system stability.

Long-term stability is assured with true pressure-independent performance. Once the building system is running, conditions will change and so will system static pressures. The Accel II valve's unparalleled pressure-independent performance pays dividends with consistent airflow control accuracy and room pressurization. This high-performance, airflow-metering device is the foundation of every airflow control system we provide. We are so confident in its performance that it's backed by a three-year warranty.

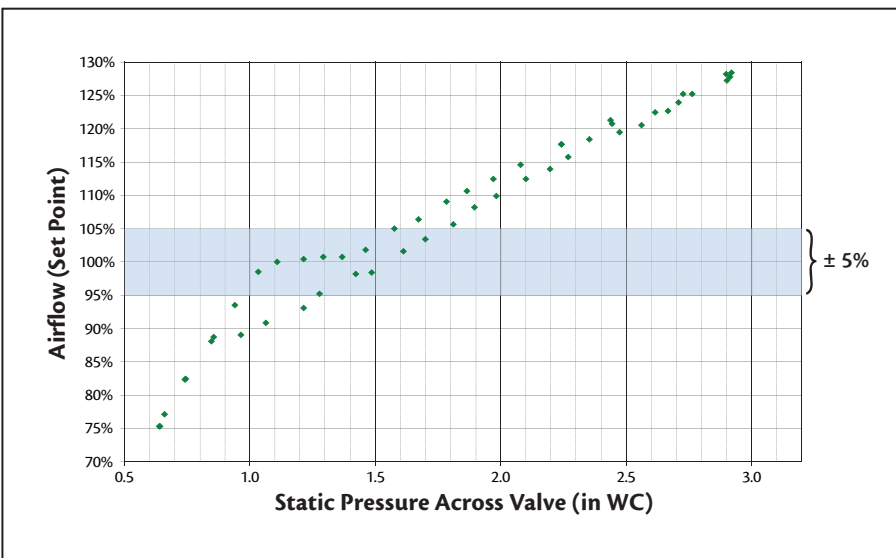
What is True Pressure Independence?

More than 20 years of design innovation have been invested into our Accel II venturi valve to deliver true pressure-independent performance—the ability to control airflow accurately regardless of changes in static pressure. As a result, the Accel II valve outperforms similar valves on the market. A comparison is shown below.

Accel II Venturi Valve



Other Venturi Valve



Phoenix Controls venturi valves maintain flow control accuracy independently of changes in system static pressure.

Phoenix Controls

When demands are made on a building's HVAC system, static pressures change. As shown in the graph on the right, the Accel II venturi valve automatically compensates to control accurately to within $\pm 5\%$ of its flow set point.

Others

Not all venturi valves are truly pressure independent, so when the static pressure changes, so does the airflow volume. This can mean a long, costly TAB period and the risk of compromising directional airflow in the future.

Phoenix Controls
Corporation

For additional information and a listing of our global offices, please visit our Web site at www.phoenixcontrols.com or call (800) 340-0007.

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