

THERE IS NO EQUAL IN AIRFLOW CONTROL.

Accel® II venturi valves are built and characterized at our headquarters to ensure quality workmanship and reflect years of Phoenix engineering improvements. This high-performance, airflow-metering device is the foundation of every airflow control system we provide and is backed by a three-year warranty. Its reliable performance has been proven in a wide range of critical environments, including laboratories, vivariums, pharmaceutical cleanrooms and health care facilities.



Accel® II venturi valves are:

- Reliable
- Pressure independent
- Easy to install
- Field adaptable
- Maintenance free

Design with confidence.

As a facility manager, design engineer or architect, you can be assured that Accel II valves will deliver the best airflow control performance possible. Integration with your facility management system is hassle-free and provides the operating data necessary to verify environmental integrity.

Create a safe, comfortable environment.

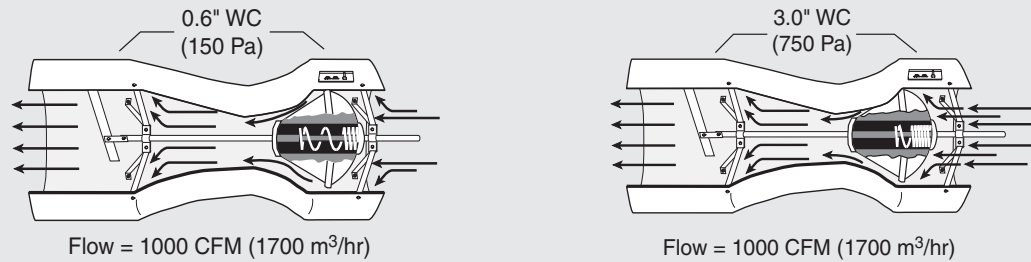
Pressurized spaces are relied upon for protection and contamination control. There is no room for compromise when highly corrosive chemicals are in use, a biological contamination is possible or years of valuable research are at risk. Accel II valves react instantly to changes in static pressure to deliver a consistent airflow rate through these spaces.

Benefit from savings.

This valve saves time and money at commissioning *and* throughout its operation life. Factory characterization lowers balancing costs and speeds commissioning, and the valve requires no scheduled maintenance. As part of the patented Usage Based Control® system for fume hood exhaust, significant energy savings are realized.

Using the Valve to Meter Airflow

All Phoenix valves meter airflow using the same control approach—combining a calibrated shaft position with a self-adjusting cone to produce a pressure-independent device. This method of control delivers repeatable airflow rates, regardless of fluctuations in duct static pressure. No long, straight runs of duct are required for effective operation.



As duct static pressure fluctuates, the valve compensates to hold airflow rates steady. It does this through movement of the spring-loaded cone assembly along the shaft to size the orifice opening appropriately.

Flow/Pressure Operating Range

Valve	Specified Airflow Range CFM (m ³ /hour)				Pressure Drop Across Valve
	Single	Dual	Triple	Quad	
8	35-700 (60-1175)	—	—	—	0.6-3.0" WC (150-750 Pa)
10	50-1000 (85-1700)	100-2000 (170-3350)	—	—	
12	90-1500 (150-2500)	180-3000 (300-5000)	270-4500 (450-7500)	360-6000 (600-10,000)	

Accel II Valve Features

Performance

- Quicker response time for better, safer containment (<1 second)
- Pressure-independent control ensures stability as room conditions and static pressure change
- Unaffected by duct layout
- Adapts easily to field revisions
- Stability <5% overshoot

Quality

- Reliable—Three-year warranty
- Factory characterization to NIST-based standards allows faster commissioning

- No rebalancing required after start-up
- Accurate—Automatically compensates within ±5% of flow set point
- No routine maintenance

Design

- Wide airflow and pressure control ranges
- Aerodynamic conical diffuser for noise attenuation
- Anti-fouling design
- Fail-safe operation
- Horizontal and vertical orientations
- Electronic or pneumatic actuation
- Pre-insulated supply valves

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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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