UL Products

Fire/Smoke Dampers
Fire Dampers
Smoke Dampers
Ceiling Radiation Dampers
Founded in 1928, our success is built on being easy to do business with and delivering a full range of products on-time and at competitive prices.

**Product Features**
- True round fire/smoke dampers
- Integral sleeve options
- Single side mounting angles
- Grille mounted systems
- Stainless steel designs
- Four-way installations
- Wood truss radiation dampers
- Factory mounted smoke detector

**In-House Testing Facility**
Pottorff’s commitment to accurate and credible performance data is highlighted by our state-of-the-art elevated temperature test lab which features:
- 5000 fpm maximum velocity
- 500°F maximum temperature
- 20 in. wg. maximum static pressure
- UL-555 and UL-555S compliance testing
- AMCA-500D performance testing

**Industry Leadership**
Active participation in the development of building codes, design regulations, and test standards with the following organizations ensures that Pottorff products comply with the latest requirements.
- AMCA’s Board of Directors, Code Action Review Committee and Engineering Committees
- Underwriters Laboratories Damper Industry Group and Standards Development Process - STP
- United States Green Building Council

**Quick Ship Program**
Whether your project requires delivery in 1 week or the next day, Pottorff’s industry leading Quick-Ship performance is guaranteed.
**Triple-V Blade**

With roll-formed triple-V grooved blades and optional stainless steel construction, this design is well suited for virtually any engineered smoke management system requiring dynamic closure ratings of 2000 FPM (10.2 m/s) and pressure up to 4 in. wg. (1.0 kPa).

**Combination Fire/Smoke Dampers**
- FSD-141 — 1-1/2 hour, Class-1 leakage
- FSD-142 — 1-1/2 hour, Class-2 leakage
- FSD-341 — 3 hour, Class-1 leakage
- FSD-342 — 3 hour, Class-2 leakage

**Smoke Dampers**
- SD-141 — Class-1 leakage
- SD-142 — Class-2 leakage

**Tunnel Type Corridor Dampers**
- FSD-171 — 1-hour tunnel corridor, 1-1/2 hour, Class-1 leakage
- FSD-172 — 1-hour tunnel corridor, 1-1/2 hour, Class-2 leakage

**Dynamic Fire Dampers**
- FD-140 — 1-1/2 hour
- FD-340 — 3 hour

**Combination Ceiling-Radiation/Fire/Smoke Damper**
- CFS-171 — 3 hour radiation, 1-hour tunnel corridor, 1-1/2 hour, Class-1 leakage
- CFS-172 — 3 hour radiation, 1-hour tunnel corridor, 1-1/2 hour, Class-2 leakage

**Airfoil Blade**

With low profile airfoil blades, this high performance line is designed to satisfy the most demanding engineered smoke management systems with system velocities up to 4000 FPM (20.3 m/s) and pressure up to 4 in. wg. (1.0 kPa).

**Combination Fire/Smoke Dampers**
- FSD-151 — 1-1/2 hour, Class-1 leakage
- FSD-152 — 1-1/2 hour, Class-2 leakage
- FSD-152V — 1-1/2 hour, Class-2 leakage, vertical blade
- FSD-351 — 3 hour, Class-1 leakage
- FSD-352 — 3 hour, Class-2 leakage

**Smoke Dampers**
- SD-151 — Class-1 leakage
- SD-152 — Class-2 leakage

**SD-152V — Class-2 leakage, vertical blade**

**Dynamic Fire Dampers**
- FD-150 — 1-1/2 hour
- FD-350 — 3 hour
**True-Round**
True-Round designs feature significantly lower pressure loss performance over traditional airfoil and triple-V bladed dampers. Coupled with factory supplied installation retaining plates, these units are ideal for installation where pressure loss is critical or where dynamic closure ratings require up to 3000 FPM (15.3 m/s) and pressure up to 4 in.wg. (1.0 kPa).

**Combination Fire/Smoke Dampers**
- FSD-125R — 1-1/2 hour, Class-1 leakage

**Smoke Dampers**
- SD-125R — Class-1 leakage

**Dynamic Fire Dampers**
- FD-125R — 1-1/2 hour

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**Curtain Style Fire Dampers**
Listed for vertical and horizontal installation, curtain style blades offer maximum free area options while providing reliable control of fire in 1-1/2 and 3 hour rated static or dynamic systems. Options include: integral sleeves, integral single side mounting angles, and thinline designs. Dynamic dampers are qualified to 4000 fpm (20.3 m/s) and 4 in. wg. (1.0 kPa).

**Static Fire Dampers**
- VFD-10 — 1-1/2 hour
- VFD-10-TL — 1-1/2 hour
- VFD-30 — 3 hour

**Dynamic Fire Dampers**
- VFD-10D — 1-1/2 hour
- VFD-30D — 3 hour

**Butterfly Style Round Fire Dampers**
Designed for use where round duct passes through metal stud drywall partitions or masonry walls or floors in static systems.

**Dynamic Fire Dampers**
- VFD-15R — 1-1/2 hour
- VFD-35R — 3 hour
**Butterfly Style Blade**
Ceiling radiation dampers are installed horizontally in the ceiling membrane assemblies with fire resistance ratings up to 3 hours. Available with low profile blades for limited space designs, single blade to minimize the pressure drop, and round blade design. Ratings up to 3 hours.

**Folded Curtain Style Blade**
The low-profile, high free area design of our CFD-20 makes it ideal for installation below bathroom exhaust fans and other space restricted penetrations of fire resistance rated floor-ceiling or roof-ceiling assemblies. Ratings up to 3 hours.

**Dampers for Wood Truss Systems**
Specifically designed and UL tested for installation in 1 hour rated wood truss floor-ceiling and roof-ceiling designs this Pottorff innovation offers: R-6 insulated register outlet boxes with standard boot-rail connections, fiberglass plenums for field installed transitions, and side tap transitions for shallow plenums.
Grille Mounted Access
These designs provide direct damper/actuator service access by removing the grille or register.

- Out-of-Partition (OP)
- Side Panel (SP)
- Eliminates costly fire-rated access panels and mounting angles required for regular grille mounted fire-smoke dampers

Connection Flexibility!

Transition Duct Connections
When duct connections are not the same shape or size as the damper, optional factory transitions include:

- Round
- Oval
- Square or Rectangular
- Flange Duct Connections
- S & Drive Connections

Single Side Mounting Angles
A Pottorff innovation, this labor saving system requires mounting angles on only one side of the partition.

- UL 555 tested for vertical and horizontal dampers
- Installs in masonry, wood stud and metal stud walls
- Can be concealed underneath the drywall on metal stud walls
**Actuators**

Belimo electric actuators and Siemens pneumatic actuators ensure top quality actuation for smoke and combination fire/smoke dampers.

- Compact
- Maintenance free
- 5 year warranty

Standard model is 120 VAC, power-open, spring-close, external mount electric actuator. 24 VAC, 230 VAC, and modulating control options are also available.

**Fire Closure and Position Indications**

Our fire dampers are held open using a UL listed fusible link which melts at a predetermined temperature to permit the damper to close for protection. Our fire/smoke dampers typically utilize a thermostat sensor that interrupts the power to the damper actuator and closes the damper.

- The HS-10: Single temperature fire closure with manual test/reset buttons
- The DRS-30: Dual temperature fire closure with manual test/reset buttons and integral PI-50
- The PI-50: Positive open and closed blade position signal

**Factory Mounted Smoke Detectors**

Smoke detector features fully integrated electrical wiring with a single point connection. A Pottorff innovation, this detector eliminates costly installation, wiring and interface coordination.

- UL and NFPA approved
- Standard external mount with duct velocity of 100-4000 fpm
- Optional internal mount system is ideal when detection is required under zero-flow conditions
The latest CAD systems and computer modeling programs are combined with decades of UL product reliability testing and field experience to ensure that the entire line of POTTORFF fire and smoke dampers satisfy the exacting standards of today’s fire-life safety systems. UL-555 and UL-555S testing provides the nucleus for POTTORFF’s ongoing performance based testing. POTTORFF engineers incorporate their vast product, application, and installation related knowledge to ensure that products meet the increasing demands of today’s environment.

To see our Complete Line of Louvers and Dampers please visit www.pottorff.com.

- Fire, Smoke and Combination Fire Smoke Dampers
- Ceiling Radiation Dampers
- Backdraft Dampers
- Control Dampers
- Access Doors
- Actuators
- Narrow Line Louvers
- Stationary Louvers
- Combination/Operable Louvers
- Acoustical Louvers
- Penthouses
- Vision Screens

Pottorff’s Quality Assurance

Products manufactured by Pottorff are warranted to be free from defects in material and workmanship for a period of 5 years from the date of original shipment by POTTORFF. Electric motor warranties and claims are administered by the motor manufacturer only. For more information or to download the entire warranty, please go to www.pottorff.com.

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