

FIRE-RATED VOLUME CONTROL DAMPER



KIN-FRD-VCD

Precision Airflow Control with Certified Fire Safety

The KIN-FRD-VCD Fire-Rated Volume Control Damper is engineered to regulate and balance airflow in HVAC duct systems while maintaining fire integrity across compartment boundaries. Designed for use in fire-rated ductwork and critical life-safety applications, KIN-FRD-VCD combines accurate air balancing, robust construction, and certified fire resistance to meet modern building code requirements.

Built with high-quality galvanized steel and engineered blade profiles, the damper ensures smooth airflow, low pressure drop, and dependable performance — even under fire exposure conditions.

Typical Applications

- Fire-rated HVAC supply, return, and exhaust ductwork
- Commercial and high-rise developments
- Hospitals, hotels, and public buildings
- Data centers and critical facilities
- Industrial ventilation systems
- Smoke and fire compartmented duct zones



ISO 9001:2015
ISO 14001:2015
ISO 45001:2008



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CHOICE FOR NOISE,
VIBRATION & SEISMIC
CONTROL SOLUTIONS.

FIRE-RATED VOLUME CONTROL DAMPER

Key Features & Benefits

Fire-Rated Construction

Tested and certified to maintain fire integrity for fire-rated HVAC systems.

Accurate Air Balancing

Ensures precise airflow regulation for branches and zones.

Low Pressure Drop

Aerofoil or V-profile blades minimize turbulence and energy losses.

Flexible Control Options

Available with manual quadrant locking or motorized actuator operation.

Robust & Durable Build

Heavy-duty galvanized steel frame and blades for long service life.

Low Leakage Options

Optional blade and jamb seals for improved shut-off performance.

Engineered Construction

Frame:

Galvanized steel (standard)

Optional stainless steel construction

Blades:

3V-shaped steel blades for standard air balancing

Aerofoil blades (GI / Aluminium / Stainless Steel) for reduced pressure drop

Bearings & Bushes:

Self-lubricating nylon (standard)

Optional brass or stainless steel

Linkage:

Concealed or external linkage for smooth and protected operation

Gaskets & Seals:

Fire-rated rubber / silicone sealing options available

Designed for Projects

The KIN-FRD-VCD is designed to integrate seamlessly into fire-rated HVAC systems, supporting safe airflow control, simplified commissioning, and long-term operational reliability – without compromising fire safety.



Configurations & Control Options

• Blade Operation:

- Opposed blades (standard) for balancing
- Parallel blades (optional) for ON/OFF applications

• Operation Type:

- Manual quadrant with position indicator and locking
- Motorized actuators (ON/OFF or modulating options available)

• Fixing Types:

- Flanged
- Hat-shaped
- Slip & clip
- Box (inserted)
- Round and oval spigot types

Performance & Reliability

- Designed for stable airflow and consistent performance
- Tested air performance and leakage characteristics (model dependent)
- Suitable for single-section and multi-section assemblies
- Compatible with fire-rated duct systems

Request Selection Support

Share your duct size, airflow requirement, fire rating, and control preference.

Our engineering team will recommend the optimal KIN-FRD-VCD configuration for your project.