

Application and Specification

The PVE range of Extract Dampers have been fire rated to BS 475 part 8 by the Fire Insurers Research and Testing Organisation. There was no loss of structural integrity even after a 2-hour heating period. They provide automatic shut off of airflow in ducts and voids in the case of fire.

PVE dampers are held open by a fusible link, which breaks to allow a spring-loaded mechanism to close the damper and lock it shut when the temperature being handled exceeds a pre-determined limit. Our dampers are equipped with a link which fuses at approximately 72deg C. other temperature links are available up 182deg C. Operation is either via a spring return or pneumatic actuator.

Motor operation allowing the closing of the damper to be triggered by a remote detector which can be temperature sensitive but also has the ability to respond to other environmental conditions or smoke.

Failure of the electric or pneumatic power supply will automatically cause the damper to close.

Construction - Frames

All PVE dampers have frames of top hat section for ultimate strength and stability under load. All frames are manufactured from heavy gauge Zinc coated sheet steel. The natural finish of this material is extremely resistant to corrosion due to atmospheric or environmental conditions.

- Blades

Blades are manufactured from zinc coated sheet steel with interlocking edges. We offer two blade widths as standard 150mm and 200mm, which are used in combination as required to build up the preferred size of the damper. Blade axles and interlocking push rods are zinc plated mild steel.

- Bearings

The axles bearings and cross connecting bracket bearings are manufactured in brass for optimum performance and long life.

- Air-Sealing Feature

To drastically reduce air leakage in the closed position PVE dampers are fitted with unique side seals of spring-loaded zero clearance stainless steel located between the blade ends and the main damper framework.

- Special Dampers

Our dampers can be supplied in modular format up to 2500 X 2500 although dampers of other than preferred sizes can be supplied at a slight extra cost. Also special construction or finish of dampers can be considered for special applications.