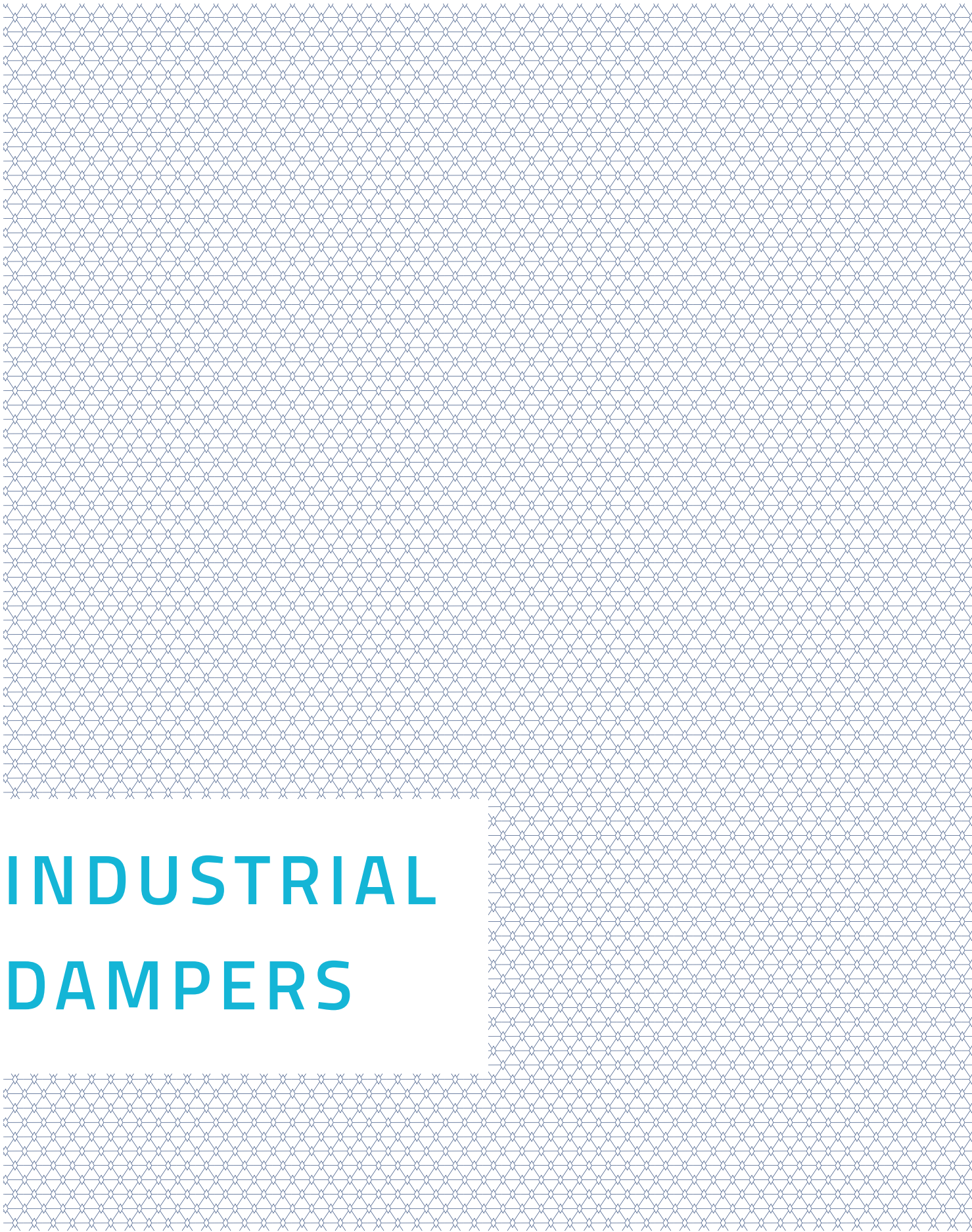




INDUSTRIAL DAMPERS



DAMPERS

A damper is a valve or plate that stops or regulates the flow of the air inside a duct, chimney, VAV box, air handle or other air-handling equipment. Its operation can be manual or automatic.

Manual dampers are turned by a handle on the outside of a duct. Automatic dampers are used to regulate airflow constantly and are operated by electric or pneumatic motors.

In a chimney flue, a damper closes off the flue to keep the warm air out and cool air in. This is usually done in the summer, but sometimes it is also done in the winter. In some cases, the damper may also be partly closed to help control the rate of combustion.

A damper is available for a wide variety of applications in round ductwork, where low-leakage isolation can be obtained from 90 to 99.9% depending on the seal arrangement.



PED DAMPERS

PED shaft seals provide a low-cost, heavy-duty design which is suitable for application up to 700°C gas temperature. Dampers are equipped with standard outboard bearing and frame-mounted shaft seal arrangement. This categorization allows for packing replacement without bearing removal.

The advantages of PED Dampers

- Excellent for isolation
- Fast operating speeds
- Little or no outside space required to support the structure
- No leakage to ambient
- All blade seals are internal to the frame and the shaft seals are external
- Low cost
- Easy maintenance

Actuator Systems

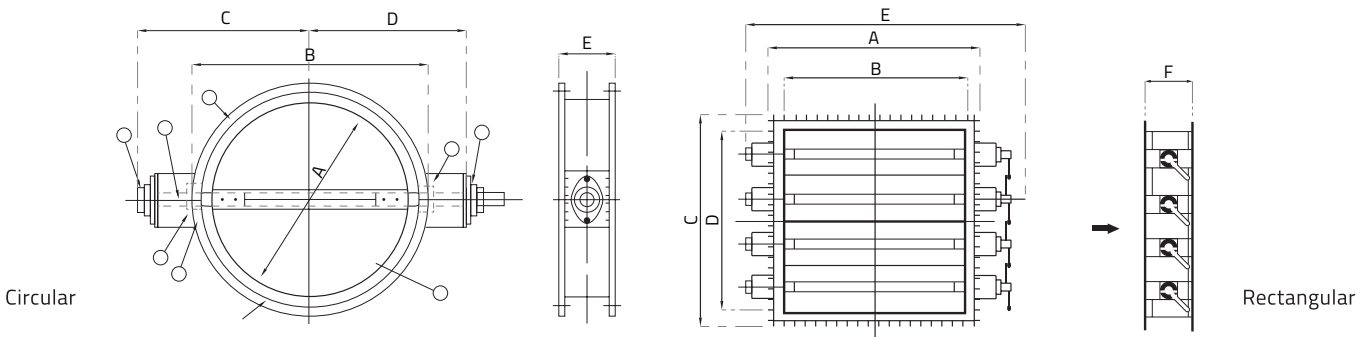
The following actuator options are available with PED dampers:

- Manual Pneumatic
- Hydraulic
- Electrical

Operating Conditions

Temperature Range	32°C - 700°C
Operating Pressure	100 kPa - 100 kPa

SHAPE : CIRCULAR DAMPER & RECTANGULAR DAMPER



FLAT & AERODYNAMIC BLADES

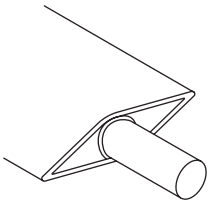


Figure LD-1

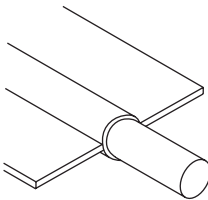


Figure LD-2

SLEEVE BEARING & BALL BEARING

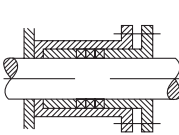


Figure LD-16

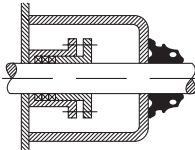


Figure LD-17

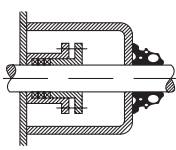


Figure LD-18

GLAND PACKING ARRANGEMENT

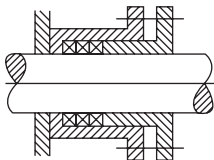


Figure LD-14

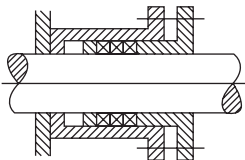


Figure LD-15

ENCLOSED & OPEN BODY

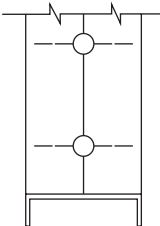


Figure LD-12

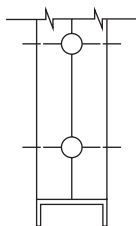


Figure LD-13

LEVEL & CHAIN OPERATED ACTUATION

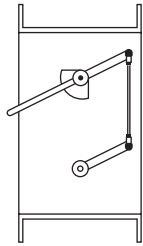


Figure LD-20

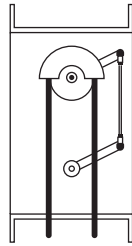


Figure LD-21

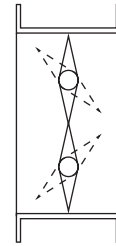


Figure LD-26

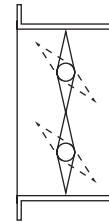


Figure LD-30

GEARBOX ACTUATION

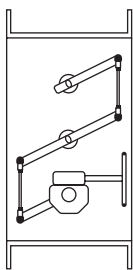


Figure LD-22

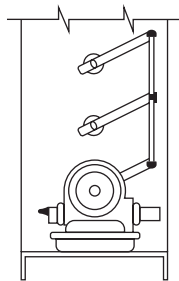


Figure LD-23

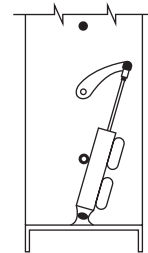


Figure LD-24

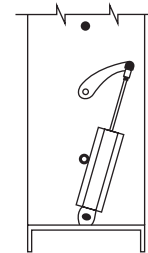


Figure LD-25

PNEUMATIC OR HYDRAULIC