Motorised Fire & Smoke Dampers

Fire Protection



With thermal responsive device (manually resettable) & spring return actuator

FD 125

APPLICATION

- · MFSD are designed to be installed in HVAC ductwork at locations that are designated as fire barrier or fire & smoke barrier. It should not be installed in a smoke extraction ductwork for smoke extraction applications.
- It is suitable for vertical installation in walls/partitions and horizontal installation in floors having a fire resistance rating of less than 3 hours (as per NFPA 90A).
- · It prevents the spread of fire/smoke inside residential, commercial and industrial buildings.

DESCRIPTION

- Normally open but can be closed through remote signal from Fire Alarm Control Panel / BMS or closed automatically upon detection of heat.
- · Protects the integrity of a fire/smoke barrier wherever it is penetrated by HVAC ductwork by preventing the spread of fire/smoke.

CONSTRUCTION

- Casing: 140mm deep, hat-shaped casing manufactured from 16 ga. (1.5mm) galvanised steel.
- Blade: 3V-groove shaped, single skin blades manufactured from 16 ga. (1.5mm) galvanised steel. Parallel blade operation.
- TRD: Manually resettable Thermal Responsive Device that operates at 165°F (74°C).
- Blade tip seal: Silicon rubber seals permanently bonded to blade edge through self-forming silicon sealant.
- Jamb seal: Stainless steel, spring action type.
- Actuator: UL listed, Spring return, Electric 24VAC / 230VAC, quick opening & closing.
- · Jackshaft: 12mm x 12mm square jackshaft to ensure tight grip at the actuator.
- Brass bush: round for spindles and square for jackshaft.
- Sleeve: 400mm long factory installed sleeve (standard supply) manufactured from 16ga (1.5mm) galvanised steel.
- Minimum size: 203mm x 203mm (for ** 150mm x 150mm, see note under Available Sizes table).
- Maximum size: 914mm x 914mm (single section). * Larger sizes manufactured in multiple sections.

INSTALLATION

- · Jackshaft upstream or jackshaft downstream.
- · Vertical in wall/partitions or horizontal in floors.

RANGE

Description							
FD 125 -	MFSD with G.I. casing & blades						
*FD 125-1 -	MFSD with G.I. casing & SS (grade 304) blades						
*FD 125-2 -	MFSD with SS (grade 304) casing & blades						

ACCESSORIES

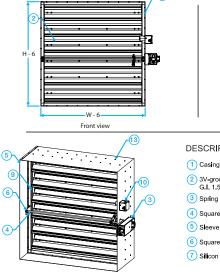
Description	Code					
Retaining angles frame – 40 x 40 x 2.3 mm						
Retaining angles lose – 40 x 40 x 2.3 mm						
Duct transitions: rectangular, circular or oval						
Access Doors						

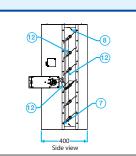
*, ** Not available for UL classified dampers

Advantages

- Installation: Upstream or downstream; Vertical or Horizontal.
- Suitable for static & dynamic systems. Easy maintenance due to motorization.

DIMENSIONS (mm)





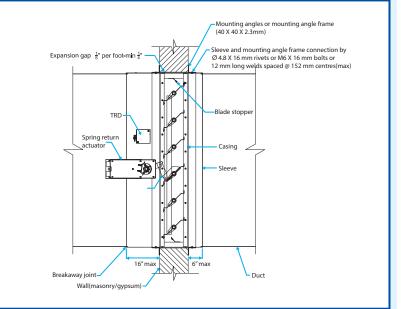
DESCRIPTION

- (1) Casing G.I. 1.5 mm
- 2 3V-groove blades G.I. 1.5 mm
- (3) Spring return actuator
- (4) Square Jack Shaft (12mm)
- 5 Sleeve G.I. 1.5 mm
- 6 Square brass bush
- (7) Silicon rubber tip Seal
- 9 Side Seal S.S. 0.3 mm (10) (TRD) Thermal responsive divice

8 Blade stopper G.I. 1.5 mm

- 11 Jackshaft lever
- 12 Side linkage
- 13 Rivet Ø 4.8 X 10 mm
- (14) Round brass bush

INSTALLATION DETAILS



AVAILABLE SIZES (mm)

w	150**	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900
н	150**	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900

200W or 200H damper with factory installed sleeve will have rectangular/round/oval duct transition on both sides of sleeve.

• Any combination of W x H. For non-standard sizes, please consult us.

