ADVANCEDAIR
INNOVATION IN ACTION

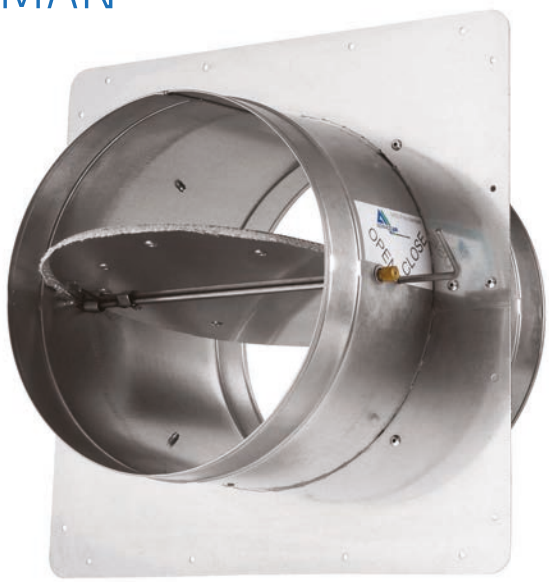
Circular Single Blade Fire & Fire Smoke Damper

0400 Series

- E & ES classified fire dampers tested to BS EN 1366-2
- Aerodynamically Air Control tested to BS EN 1751
- Tested and assessed for installations for various supporting constructions to BS EN 1366-2
- Integrated volume control facility
- Thermal fuse replaceable from outside the casing
- External blade position indicator

Fire Damper - Model 0400-MAN

Classification E120 (0400 FME)



To meet the demand for fire dampers with easy access for testing and maintenance we are pleased to offer the 0400 series damper. The damper has been designed to maintain its integrity in a fire also having the facility to be used for volume control. The sizes available are from minimum 100mm dia. to maximum 315mm dia.

The damper has been tested to meet the current CPR requirements for CE labelling being tested to BS EN 1366-2 and classified to BS EN 13501-3 as required in the product standard BS EN 15650.

To ensure the damper is easily installed it is supplied with a pre-drilled installation flange that allows tolerance on the hole opening size using fire batt to complete the installation.

OVERALL & OPENING DIMENSIONS

Duct Nom mm	Overall Flange Size mm	Opening Size mm
100	239 x 239	155 x 155
125	264 x 264	180 x 180
150	289 x 289	205 x 205
160	299 x 299	215 x 215
200	339 x 339	255 x 255
250	389 x 389	305 x 305
300	439 x 439	355 x 355
315	454 x 454	370 x 370

CONSTRUCTION

Casing

The casing is manufactured from 0.9mm Galvanised mild steel complete with swages at each end.

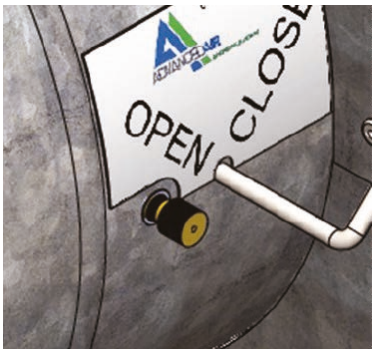
Blade

The blades are double skinned constructed from 1.2mm galvanised mild steel with a thermal performance material between the skins.

Thermal Fuse

Externally replaceable thermal fuse is rated at 72°C has been designed with no creep of the solder joint.

The thermal fuse is screwed into position through a 12.5mm diameter brass holder. When tightly screwed retains the blade in position set using the handle.



Handle

The handle is a 6mm dia. preformed stainless steel grade 303 rod that allows the damper blade to be positioned fully open position or to any set point. The blade position is shown against an open/closed label on the casing.

Installation Plate

The installation plate is supplied as standard allowing the damper to be fixed into place from one side only. For the opening is completed with fire batt of a density of 140 kg/m³. Fixing holes around the perimeter of the flange for screw fixing into the wall.

Fire Smoke Damper - Model 0400-FME

Classification E120 (ve i<>o) S

To meet the demand for fire smoke dampers to have easy access for testing and maintenance we are pleased to offer the 0400 series fire smoke damper. The damper has been designed to maintain its integrity in a using a fail-safe spring closed actuator in either direction with an electrical thermal fuse with a test button. The sizes available are from minimum 100mm dia. to maximum 315mm dia.

The damper has been tested to meet the current CPR requirements for CE labelling being tested to BS EN 1366-2 and classified to BS EN 13501-3 as required in the product standard BS EN 15650.

To ensure the damper is easily installed it is supplied with a pre-drilled installation flange that allows tolerance on the hole opening size using fire batt to complete the installation.

OVERALL & OPENING DIMENSIONS

Duct Nom mm	Overall Flange Size mm	Opening Size mm
100	239 x 239	155 x 155
125	264 x 264	180 x 180
150	289 x 289	205 x 205
160	299 x 299	215 x 215
200	339 x 339	255 x 255
250	389 x 389	305 x 305
300	439 x 439	355 x 355
315	454 x 454	370 x 370

CONSTRUCTION

Casing

The casing is manufactured from 0.9mm Galvanised mild steel complete with swages at each end.

Blade

The blades are double skinned constructed from 1.2mm galvanised mild steel with a thermal performance material between the skins.

Thermal Probe

The electric thermal device is rated at 72oC and mounted within the ductwork (by others). It is complete with test button. If s ubjected to elevated temperatures the probe can be simply replaced.

Actuator

The dampers are supplied with either 230v or 24v actuators with built-in microswitches to signal the blades position.

Installation Plate

The installation plate is supplied as standard allowing the damper to be fixed into place from one side only. For the opening is completed with fire batt of a density of 140 kg/m3. Fixing holes around the perimeter of the flange for screw fixing into the wall.

Fire Dampers

Under the CE labelling requirements and the building regulations the fire and fire smoke dampers are to be installed as tested. The following installations have been successfully tested to 1366-2 for 2 hours.

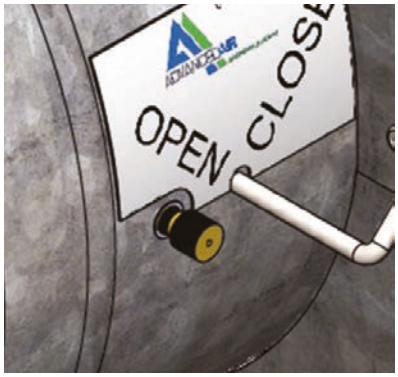
The opening should be made square 55mm larger than the damper diameter nominal size.

For Drywall

For installation the damper needs to be fitted centrally into the opening with the blade horizontal in the opening that should be 55mm larger within a tolerance of +/- 15mm than the nominal diameter. The plate which has a 70mm flange has screw holes around the perimeter and screws secured into the drywall.

For Blockwork Wall

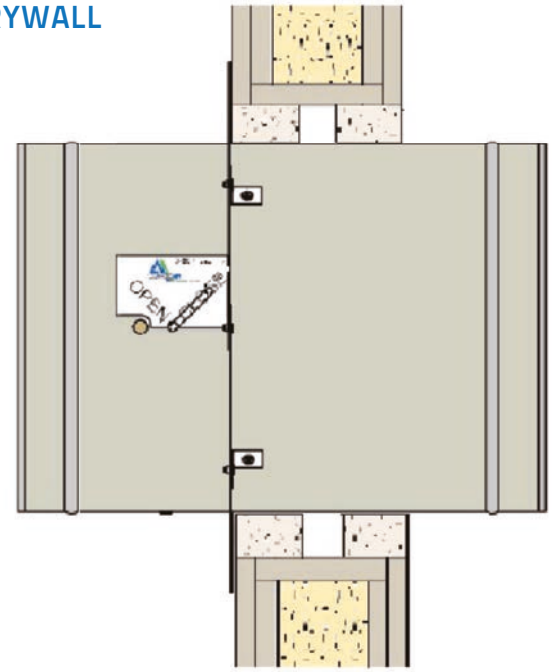
For installation the damper needs to be fitted centrally into the opening with the blade horizontal in the opening that should be 55mm larger within a tolerance of +/- 15mm than the nominal diameter. The plate which has a 70mm flange has screw holes around the perimeter and screws secured into the blockwork.



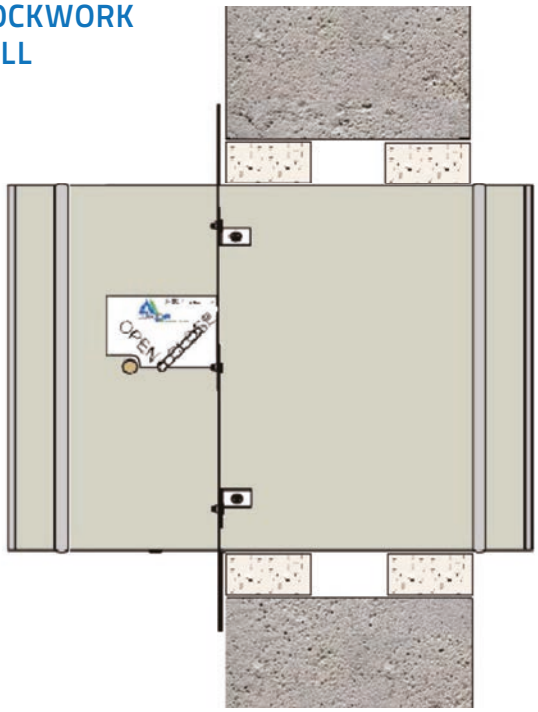
Once the damper is installed the damper blade should be opened by releasing the thermal fuse turning the handle when fully opened screw the thermal fuse until tight.

For volume control release the thermal fuse and move the damper to the correct position for the desired air volume then secure the thermal fuse.

DRYWALL



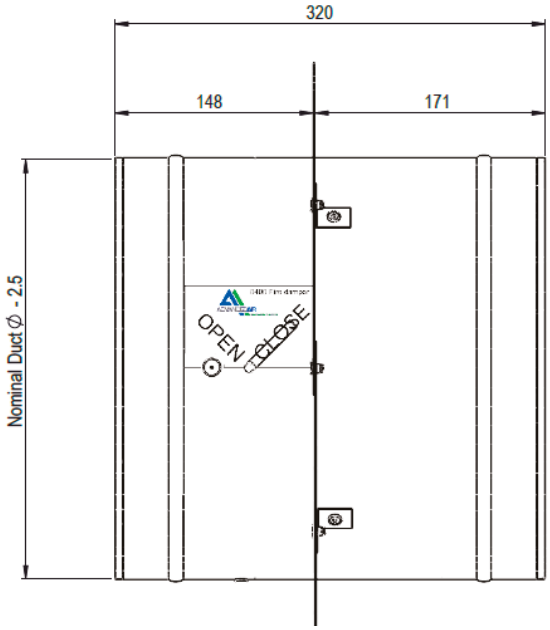
BLOCKWORK WALL



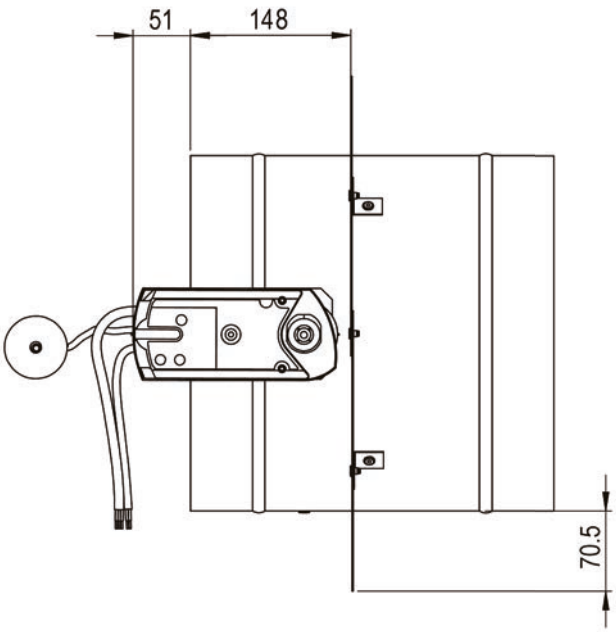
Note: For installation please refer to the Advanced Air installtion guide and technical submittal

Dimensions

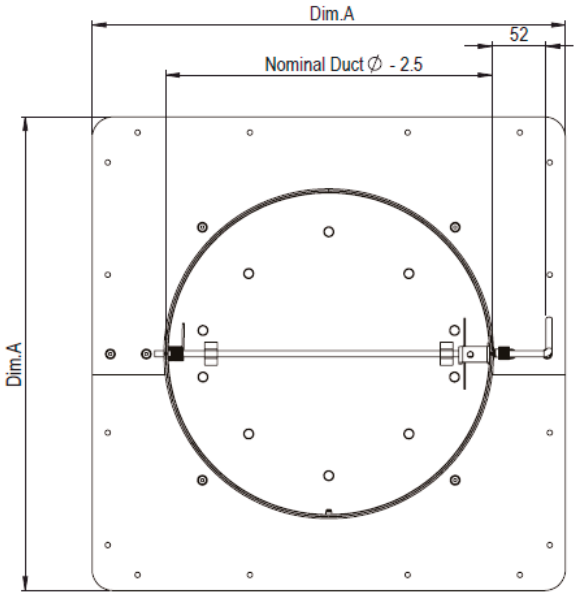
FIRE DAMPER 0400-MAN

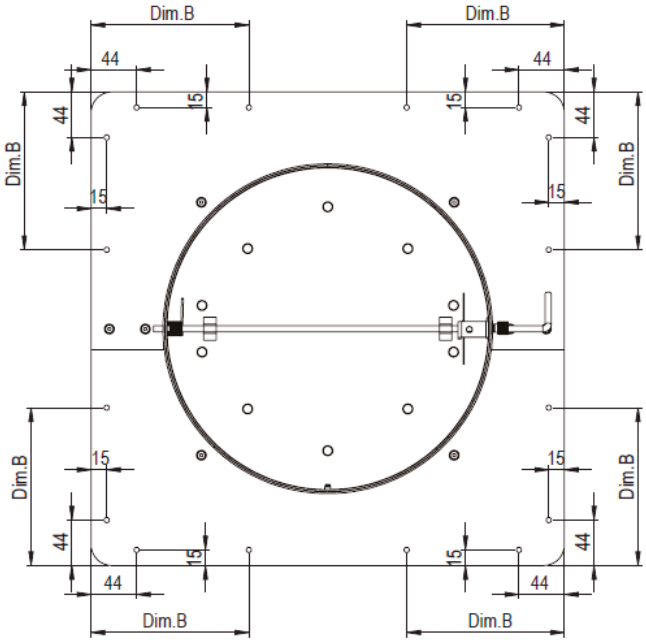


FIRE SMOKE DAMPER 0400-FME



FIXING PLATE DIMENSIONS





OVERALL & OPENING DIMENSIONS

Case Size	Dimension A	Dimension B
100mm diameter	239mm	80mm
125mm diameter	264mm	88mm
150mm diameter	289mm	96mm
160mm diameter	299mm	100mm
200mm diameter	339mm	113mm
250mm diameter	389mm	130mm
300mm diameter	439mm	146mm
315mm diameter	454mm	151mm