TECHNICAL DATASHEET

0400FME Circular Motorised Fire Damper

Advanced Air (UK) Ltd

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March 2026 | Rev 1.1

0400FME Circular Motorised Fire Damper

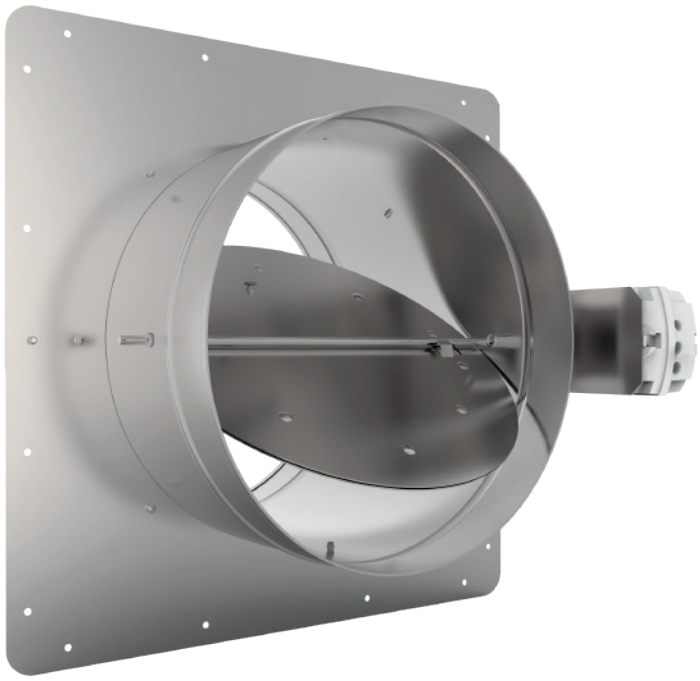
To meet the demand for fire dampers with easy access for testing and maintenance, we are pleased to offer the 0400FME damper.

This damper has been designed to maintain its integrity in a fire. The sizes available are from minimum 100mm diameter to maximum 315mm diameter.

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.

Features and Benefits

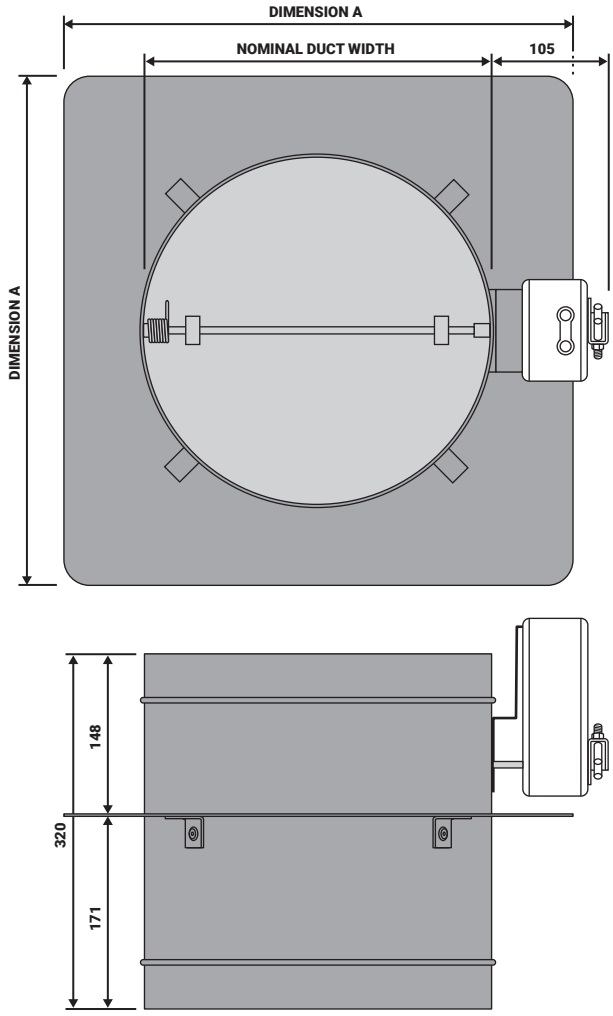
- Aerodynamically air control tested to BS EN 1751.
- Tested and assessed to BS EN 1366-2.
- Thermal fuse replaceable from outside the casing.
- External blade position indicator.



TECHNICAL SPECIFICATION

0400FME Circular Motorised Fire Damper

0400FME Dimensions



0400FME – Plate Dimension

		Dimension A (mm)
Diameter (mm)	100	239
	125	264
	150	289
	160	299
	200	339
	250	389
	300	439
	315	454

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 1mm galvanised mild steel with a thermal performance material between the skins.

THERMAL FUSE

The thermal fuse is affixed to the connecting ductwork with supplied self-tapping screws, and is complete with a test switch to check operation of the damper.

INSTALLATION PLATE

The installation plate is supplied as standard allowing the damper to be fixed into place from one side only.

Duct Sizes

Available in 100mm, 125mm, 150mm, 160mm, 200mm, 250mm, 300mm and 315mm diameters.

Actuator Options

0400FME is supplied with either 230 V or 24 V actuators with built-in microswitches to signal the blade position.

Storage

The 0400 Series damper is not a weatherproof product and it is important that dampers are stored in a clean, dry environment at ambient temperature. Temperatures in excess of 38 °C may cause irreversible damage to the molecular structure of the solder on fusible links and may result in creepage which can cause the link to eventually break and activate the damper..

Testing And Compliance

Designed to BS EN 15650, classified to BS EN 13501-3.

Fusible link operation tested to ISO 10294-4.

Damper installations fire tested to BS EN 1366-2.

Casing leakage to DW144 class C.

Maximum duct velocity – 10m/s.

Maximum duct pressure – 1000 Pa.

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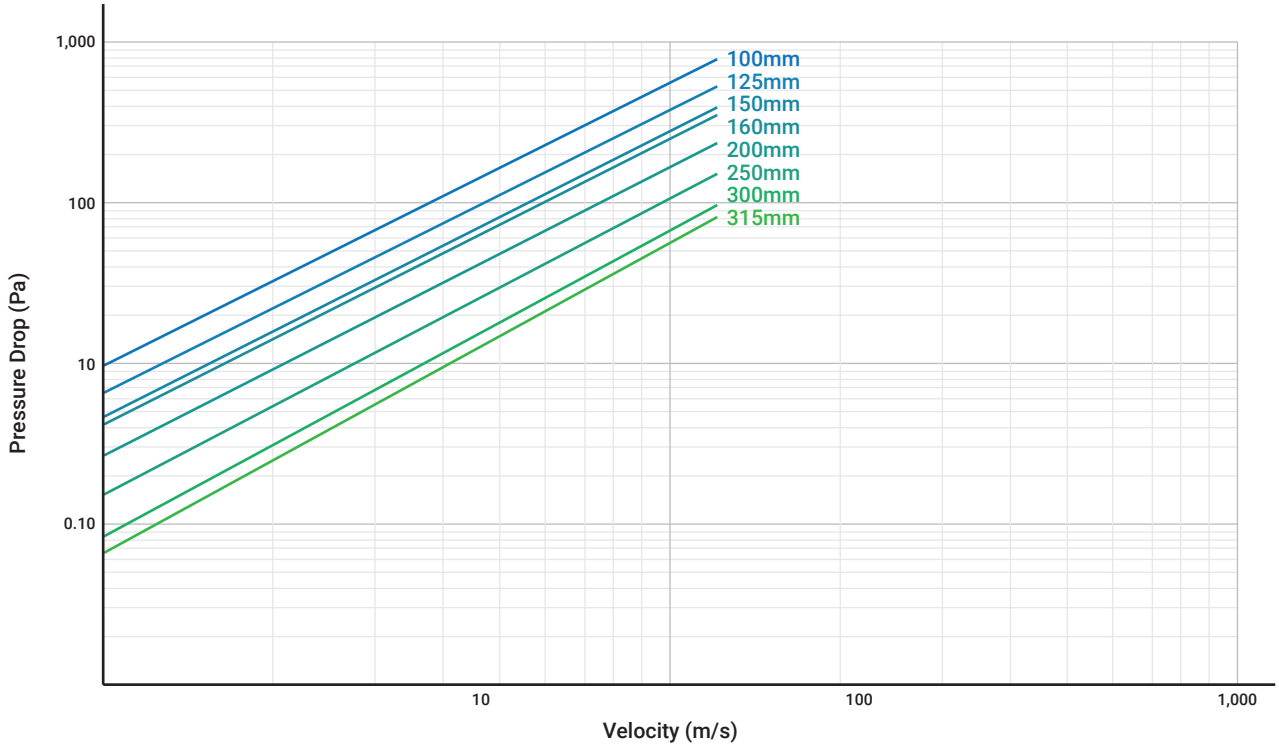
0400FME – Pressure Drop



0400FME – Free Area

Diameter (mm)	Free Area (m²)	Free Area (%)
100	0.00583	74
125	0.00985	80
150	0.01484	84
160	0.01712	85
200	0.02778	88
250	0.04465	91
300	0.06544	93
315	0.07244	93

0400FME – Weight

Diameter (mm)	Weight (kg)
100	1.5
125	1.8
150	2.2
160	2.4
200	3.0
250	4.0
300	5.0
315	6.3

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0400FME – Actuator Specifications

Torque	4 Nm	
Running time (open)	90 s	
Running time (closed)	15 s	
Supply voltage	AA230TS4 – 230 V AC AA24TS4 – 24 V AC/DC	
Frequency	50-60 Hz	
Power consumption	AC/DC 24 V	AC 230 V
– running **– at end position**	3.5 W 2.0 W	4.5 W 3.5 W
Control signal	ON / OFF	
Angle of rotation / working range	90° (95° mechanical)	
Auxiliary switches	2.0A, AC 24...230, DC 12...30	
Cable	0.9 m halogen-free	
– Motor **– Switches**	2-wire 1-2 6-wire 51-52-53-54-55-56	

Lifetime	10,000 rotations
Noise level	45 dB (A)
Protection class	II
Degree of protection	IP 54
Mode of action	Type 1
Ambient conditions	
– Operating temp. **– Storage temp.** **– Humidity**	-32 to +50°C / IEC 721-3-3 -32 to +60°C / IEC 721-3-2 5 to 95% r.F no condensed
Weight	AA230TS4 – 1.4kg AA24TS4 – 1.3kg
Service	Maintenance-free
Standards	
– Mechanics **– Electronics** **– EMC emissions** **– EMC immunity**	EN 60 529 / EN 60 730-2-14 EN 60 730-2-14 EN 50 081-1:92 / IEC 61000-6-3:96 EN 50 082-2:95 / IEC 61000-6-2:99