YD243 - FIRE DAMPER
ROUND SINGLE WIND, FUSIBLE LINK

Fire Damper
YD243

YD243 - FIRE DAMPER
ROUND SINGLE WIND, FUSIBLE LINK

DESCRIPTION:

In the event of a fire, fire dampers shut automatically to prevent the propagation of fire and smoke through ductwork to adjacent designated fire compartments. In the event of a fire, the damper is triggered at 72 °C or at 95 °C (use in warm air ventilation systems) by a fusible link. The release mechanism is accessible and can be tested from the outside

MATERIAL :

Galvanized Metal Sheet

APPLICATIONS :

The spring return actuator enables the motorised opening and closing of the damper blade; it can be activated by the central BM. In the event of a fire, the damper is triggered thermoelectrically at 72 °C or 95 °C (use in warm air ventilation systems). As long as power is supplied to the actuator, the damper blade remains open. If the supply voltage fails, the damper closes (power off to close). Motorised fire dampers can be used to shut off ducts. The torque of each actuator is sufficient to open and close the damper blade even while the fan is running. The spring return actuator is fitted with limit switches that can be used for capturing the damper blade position.

.

FUNCTION:

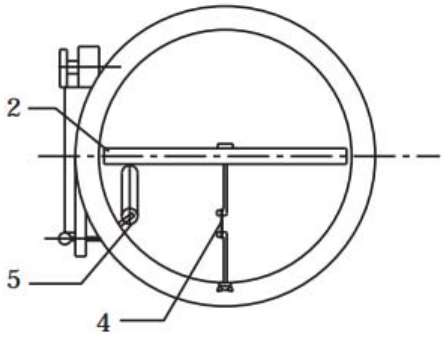
- They are made from galvanised sheet body and single blade.
- Moving blades are made from double walled galvanised sheet and between the walls insulation material is used.
- Between blade and body there are fireproof sealing.
- Fusible link (72ºC)
- Spring return actuator can be usable which will close the damper by a signal from fire panel.
- Pneumatic applications are also avaiable.
- When the damper will be mounted on kitchen walls 95ºC fusible link is used.

STANDARD SIZES (mm):

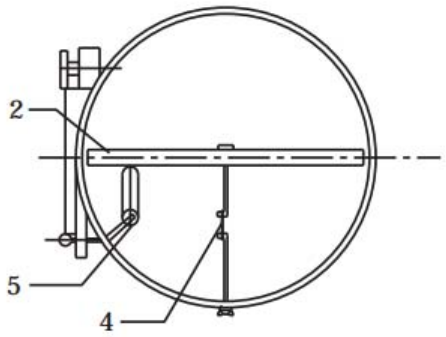
TYPE YD243 - AVAILABLE SIZES (mm)															
Ø NECK DIAMETER															
100	125	150	160	180	200	224	250	280	300	315	355	400	450	500	560
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

DRAWING

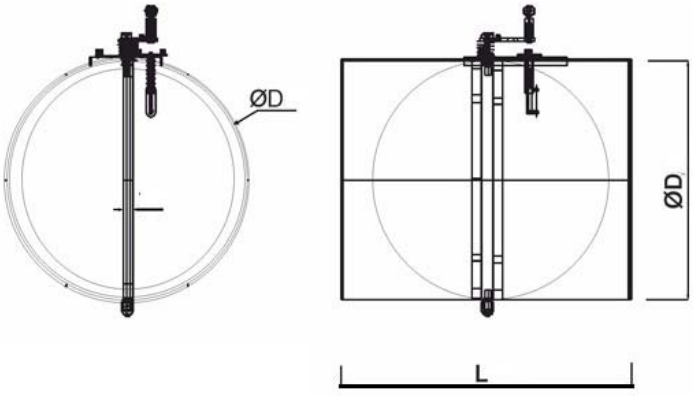
WITH FLANGE



WITHOUT FLANGE



1- Chassis
2- Damper Blade
3- Manual Lever
4- Thremal Release (fusable link 72^{0}C)
5- Tension Spring
6- Mechanical Interlock
7- Tensioning Nut
8- Electrical Cut-Out Switch (on request)



SELECTION TABLES

EFFECTIVE AREA TABLE (m2)

Ø D (mm)	150	200	250	300	350	400	500	600	700	800	900	1000
Aeff [m²]	0,012	0,024	0,040	0,059	0,083	0,111	0,178	0,260	0,359	0,473	0,602	0,748

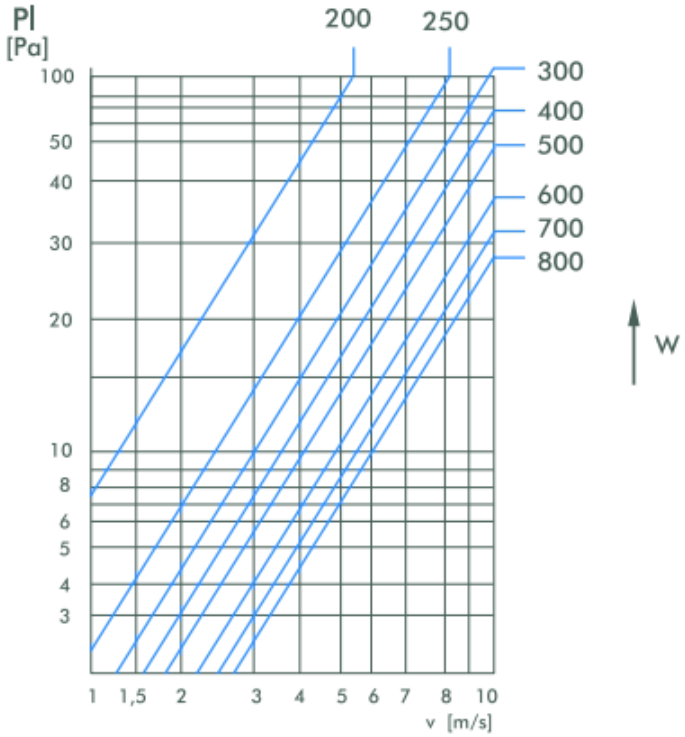
PRESSSURE LOSS DIAGRAM

Pt = Pl*f

Pt = Corrected pressure loss [Pa]

Pl = Pressure loss on the diagram [Pa]

f = Pressure correction factor



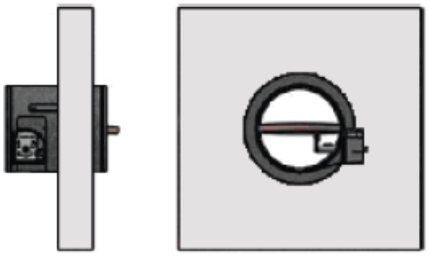
Installation & Assembly

CORRECT INSTALLATION

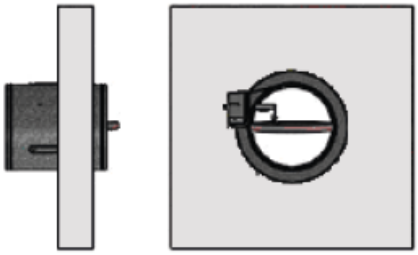
Airflow direction is not critical
(v_e i↔o) o (h_o i↔o)

Manual

Manual device at 0º



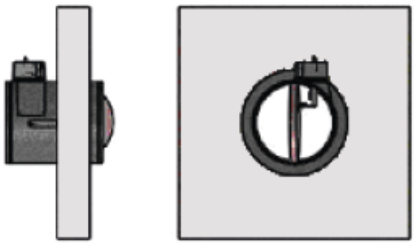
Manual device at 180º



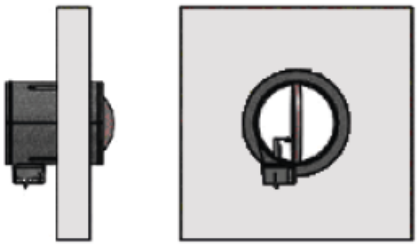
INCORRECT INSTALLATION

Manual

Manual device at top



Manual device at bottom



ORDER CODE

YD-243	F25	00	L350	D Ø300mm
FD-243: Round, 72°C thermal fuse **FD-244:** Round, 95°C thermal fuse	**F00: No Flange** **F25: Flange Width = 25mm** **F30: Flange Width = 30mm**	**00: Standard Duct Connection** **01: with flange**	**S: Standad (H+50mm)** **L: Requested Product Length (custom choice)**	**Diameter** **D: Neck Size**