



## NON-RETURN VALVE FOR EXPLOSION ISOLATION

### APPLICATIONS

VIGIFLAP is a non-return valve designed to prevent overpressure or flames caused by an explosion in dust filters or cyclones from propagating backwards in the piping system.

The flap is kept open by a locking lever. It can be used both at the inlet and outlet of the filter. In this way, the filter can be isolated in the event of an explosion or overpressure.

If an explosion occurs, the flap closes and will remain closed, preventing the passage of flames and subsequent damages. The flap must be released manually.

### STANDARD PROPERTIES

DIAMETER	Ø160 - Ø1300 mm
BODY	Painted steel - Stainless or galvanized steel options available
FLAP	All stainless steel
GASKET	Silicone FDA 200°C
EXPLOSION SENSOR	Sensor that registers the closing of flap due to overpressure or explosion

### CERTIFICATIONS

EN 16447  
EN 15089  
NFPA 69



### OPTIONS FOR VIGIFLAP

**BODY:**  
Available in galvanized or stainless steel

**ACCUMULATED DUST LEVEL:**  
Capacity sensor that registers if the accumulated dust level gets too high

**CONNECTION BOX:**  
Installed on the body according to the ATEX-zone (Opposite side of the locking mechanism)



SAFE VENT®

# VIGIFLAP

## FLAP POSITIONS



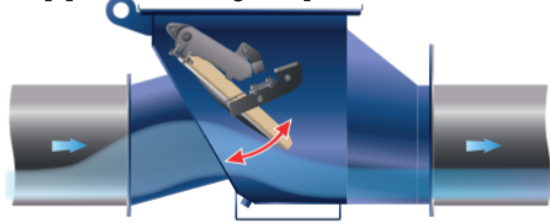
Non-retention design



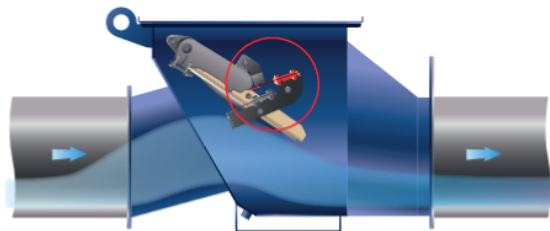
CAN ALSO BE USED FOR CLEAN AIR OUTLET

### FLOW PROCESS

2 flap positions during flow process:

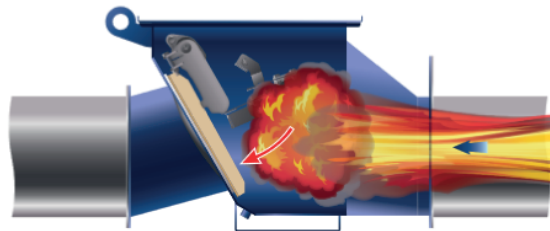


Flap stays open by process flow



Flap is locked open

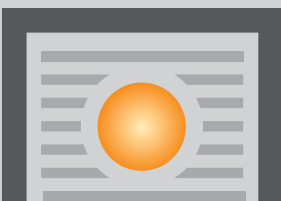
### EXPLOSION EVENT



Flap is closed by an explosion and stays locked (manual unlocking is required)

## TECHNICAL INFORMATION

KST MAX	St1 ≤ 200 bar m/s St2 ≤ 300 bar m/s	DUST	Every kind of dust	UNIT POSITION	Horizontal +/- 10 %
KST MIN	≤ 50 bar m/s	SURROUNDING TEMPERATURE	-20 °C..+60 °C	OPERATING FLOW	Vacuum or overpressure
PMAX	≤ 10 bar	FLOW RATE	15 m/s... 35 m/s	FLOW TEMPERATURE	≤ 80 °C
INSIDE	ATEX-zone 20	DUST CONCENTRATION	Unlimited		



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