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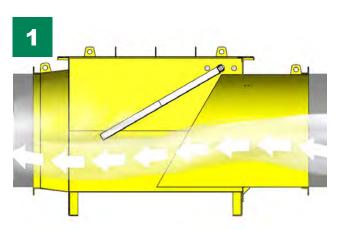


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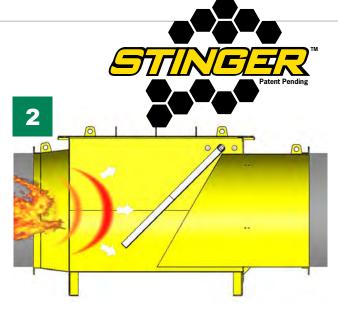
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EXPLOSION ISOLATION VALVES

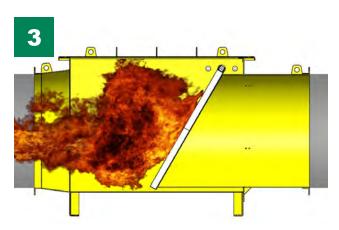
FLOW ACTIVATED FLAP VALVE



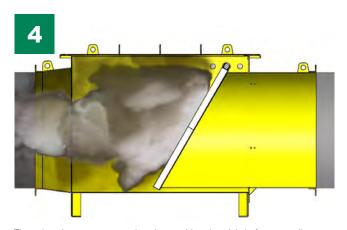
During normal operation, the airflow holds the blade open and a back stop makes sure the blade is in the position that was tested and approved.



If a deflagration occurs in the dust collector, a pressure wave will travel through the pipe faster than the flame front and close the flap valve.



When the valve is fully closed, a latching mechanism keeps it shut. The closed valve prevents the transmission of flame past the valve.



The valve also prevents smoke, dust and burning debris from traveling through the inlet pipe into the factory.

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camfil

Inlet Protection Outlet Protection

Fast-Acting Valve

Designed to close within milliseconds of detecting an explosion, the fast-acting valve installs in either inlet and/or outlet ducting. The fastacting valve creates a mechanical barrier within the ducting, which effectively isolates pressure and flame fronts (from either direction) from being able to propagate further through the process.



Inlet/Outlet Chemical Isolation

Designed to react within milliseconds of detecting an explosion, a chemical isolation system can be installed in either inlet and/or outlet ducting. The chemical isolation system creates a chemical barrier that suppresses the explosion within the ducting, reduces the propagation of flame through the ducting and minimizes pressure increases within connected process equipment.



The purpose of the Stinger is to prevent a deflagration (explosion) that could occur in the dust collector from traveling back down the inlet pipe back into the workspace/process.



Detect and Suppress

These systems protect the dust collector from ignition sources such as sparks or embers. It detects them and activates a suppression system that extinguishes them before they reach the collector.



Integrated Safety

The iSMF has been proven to isolate the downstream equipment from the

Monitoring Filter (Patent Pending)

progression of a flame front during an explosion. The Farr Gold Series dust collector with an integrated Safety Monitoring Filter allows you to recirculate exhaust air back into the work space when your dust is explosive. The key advantage of this device is that it prevents the transmission of explosive dust (fuel) from the collector.

Explosion Venting

Explosion Vent

Designed to be the "weak" link of the vessel, explosion vents open when predetermined pressures are reached inside the dust collector allowing the overpressure and flame fronts to exit to a safe area. Explosion vents minimize damage to the dust collector caused by overpressure created by a deflagration. Camfil APC's standard explosion vents are ATEX certified and NFPA compliant.



Flameless Vent

Designed to install over a standard explosion vent, the "FlamOuench SO" extinguishes the flame front exiting the vented area not allowing it to exit the device. This allows conventional venting to be accomplished indoors where it could otherwise endanger personnel and/or ignite secondary explosions.



Chemical Suppression

Designed to react within milliseconds of detecting an explosion, a chemical suppression system is installed in the collectors dirty air section. The chemical suppression system prevents expanding a deflagration by releasing a chemical agent. This system is often used in order to put combustible dust collectors inside the factory where you can't vent to the outside.

© Camfil APC/ Stinger Isolation Valve

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EXPLOSION ISOLATION VALVES

REDUCE ENERGY COST

ABOUT THE STINGER

Composite Blade Advantages: (Patent Pending)

- · Low weight
- Lower pressure drop
- · Wear resistant liner
- · High strength to weight ratio
- · Smooth back
- No dust accumulation
- · Easily replaceable
- Absorbs damage evenly and protects main valve components from damage during activation

Square Shaft Advantages: (Patent Pending)

- · Easy blade change out
- · No slip locking arm attachment Latching Mechanism Advantages: (Patent Pending)
- · No slip locking collar on square shaft
- · Fully adjustable for initial position
- · Self-adjusting during activation

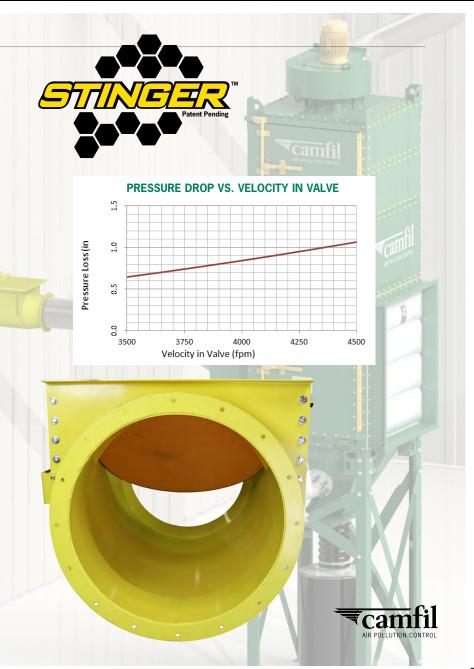
Housing Features:

- · Removable blade seat if it needs replacing
- · Designed to minimize dust accumulation around blade seat
- · Designed to maintain conveying velocities in valve
- · Max pressure 1 bar without yielding
- Flanges are industry standard angle ring flanges
- · Color: Safety Yellow
- · Single door top access for inspection and maintenance

Activation Sensor

- · Non-contact magnetic reed switch
- · Normally open or normally closed contact option
- NEMA 4 junction box with terminals for easy field connections
- · Hermetically sealed corrosion resistant sensor

© Camfil APC / Stinger Isolation Valve





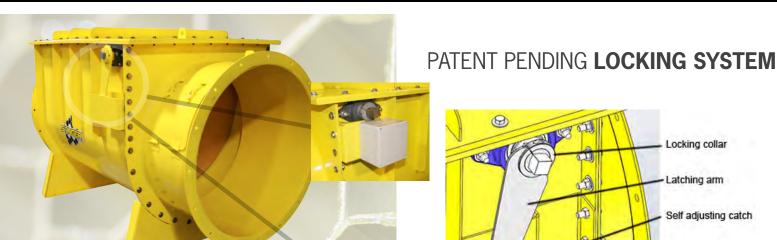
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Specifications:

NFPA Compliant: Dust Classification:

ST1 nonmetal Kst </= 200 bar m/s

Max Operating Temp Consult factory for higher temps A magnetic sensor is mounted on the shaft opposite the locking mechanism. It provides a signal to indicate that the valve has been activated.

Material of construction:

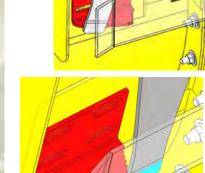
Body: Steel Blade: Steel Wear Liner: Rubber Installation position: Horizontal

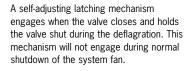
Blade Reusable: Yes if not damaged

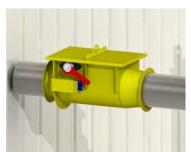
Blade Replaceable:

l li	Length	Flow Capacity (cfm)		Size	Model
	(inches)	Max	Min	inches	
	30.31	1050	590	6	ST
	33.25	1750	1050	8	ST
1	38.93	2730	1640	10	ST
1	40.75	3930	2360	12	ST
1	45.56	5350	3210	14	ST
7	48.18	6980	4190	16	ST
1	50.93	8840	5300	18	ST
1	53.37	10910	6540	20	ST
1	55.87	13200	7920	22	ST
7	58.50	15710	9420	24	ST
	64.18	21380	12830	28	ST
	69.37	27930	16760	32	ST
	74.56	35340	21210	36	ST
	80.75	43630	26180	40	ST

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Locking collar

Latching arm

Self adjusting catch

Kick back guard

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