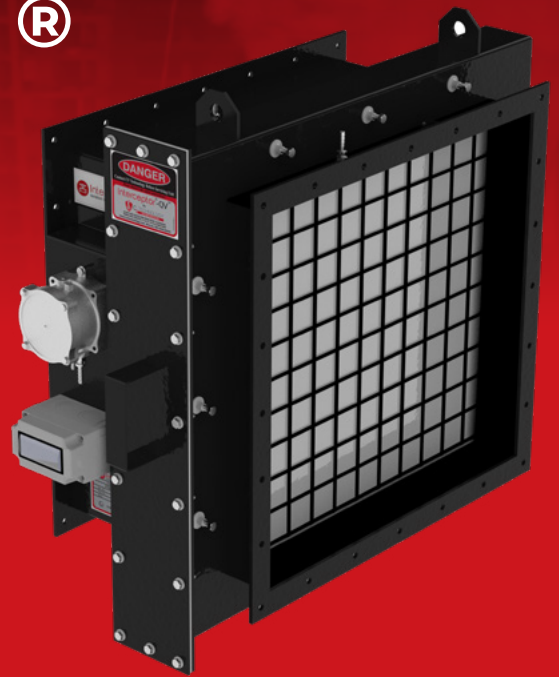


# The Interceptor®

# QV®



# PASSIVE ISOLATION



**Interceptor®**  
Passive Isolation

**QV®**



# The Interceptor<sup>®</sup>-QV<sup>®</sup> is a new patented explosion isolation device built with the principles of flameless venting.

**A stainless steel mesh cartridge in the center of the device works to stop a deflagration.** If a deflagration propagates through the clean return line it will make contact with the mesh cartridge. The cartridge removes energy from the flame front of the deflagration as it passes through the torturous path of the mesh, forcing the flame to transfer its energy to the high surface area of the mesh, thereby quenching the deflagration and not allowing any flame to pass beyond the Interceptor<sup>®</sup>-QV<sup>®</sup>.

**All of this takes place passively and automatically governed by the laws of physics, there is no reliance on any electromechanical processes, to achieve this result.**

The Interceptor<sup>®</sup>-QV<sup>®</sup> uses a patented system where a differential pressure switch continuously monitors the pressure drop across the mesh cartridge, alerting operators if buildup of dust occurs on the mesh.

The pressure drop monitoring system on the Interceptor<sup>®</sup>-QV<sup>®</sup> gives facility operators peace of mind, knowing that the condition and status of the mesh cartridge is continuously monitored assuring them of passive protection. Another patented feature of the Interceptor<sup>®</sup>-QV<sup>®</sup> is an integrated thermocouple, which when exposed to the intense heat of a deflagration will indicate, via relay, that the system has been involved in an event.

# FEATURES

## THERMAL SENSING

Ongoing monitoring to let you know if the unit has seen a flame or deflagration.

## MONITORING PRESSURE

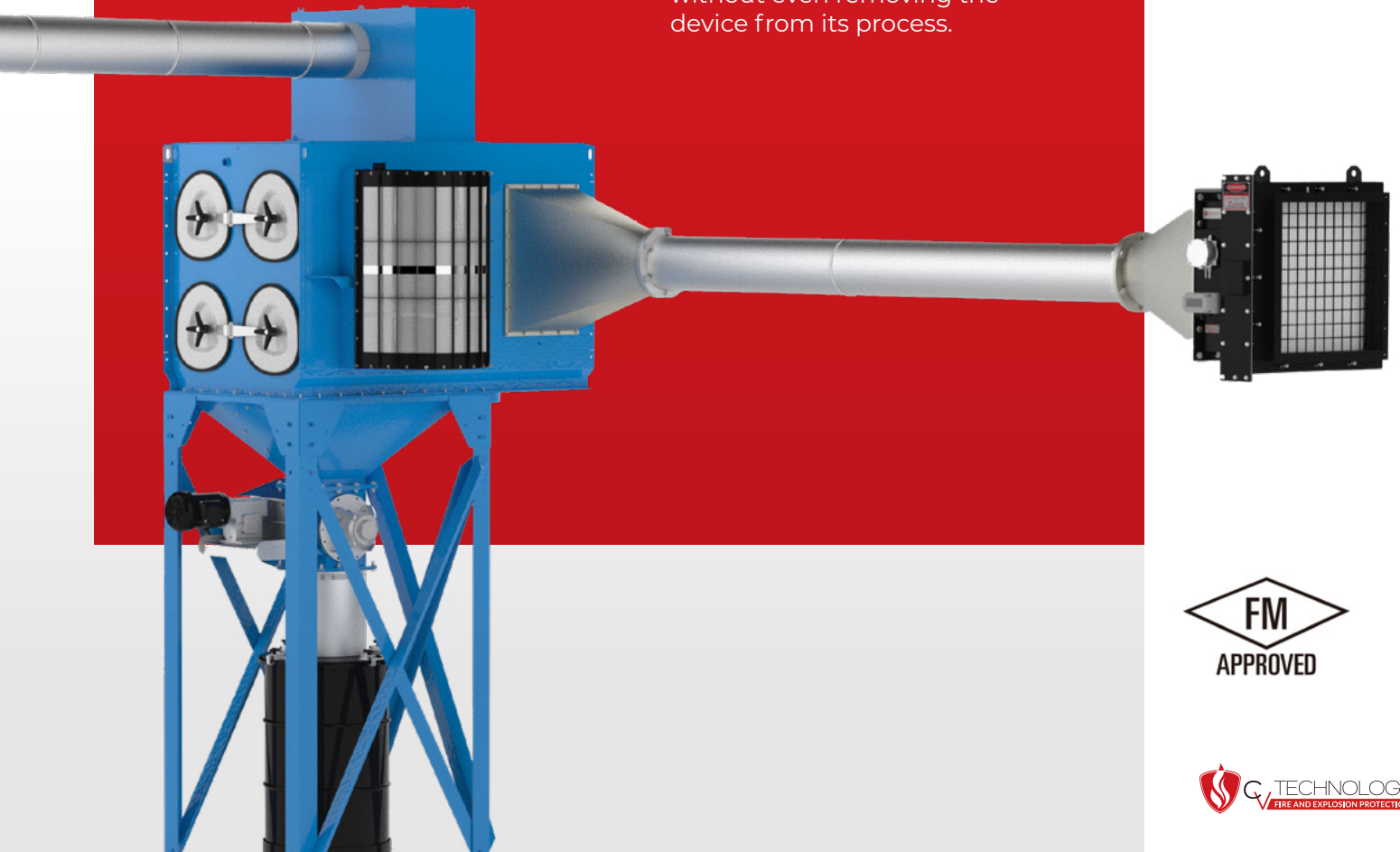
Continually monitors the pressure drop to inform you of mesh cartridge replacement needs.

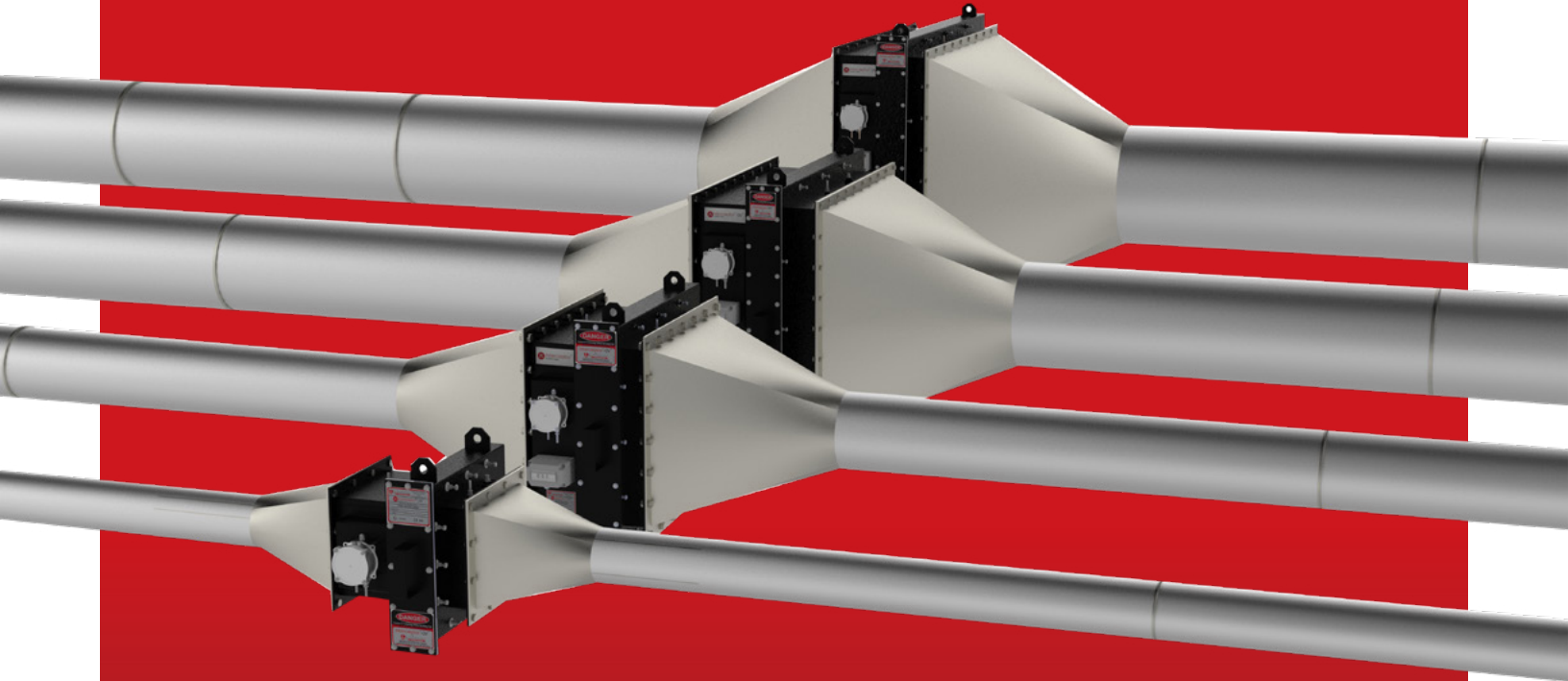
## PASSIVE SYSTEM

No moving parts or maintenance needs

## REPLACEABLE CARTRIDGE

Easy to maintain, you may replace the mesh cartridge without even removing the device from its process.





## FLAMELESS TECHNOLOGY

- Proven explosion mitigation technology
- Full scale tested for a variety of dust types and dust concentrations
- ATEX certified as an Explosion Isolation device to EN15089

## PRESSURE DROP MONITORING

- Determines if the flameless mesh is clean enough
- Remotely determine if maintenance is required

## PASSIVE ISOLATION SYSTEM

- Low maintenance
- Always available for protection
- No moving parts

# EFFECTIVE, EASY TO INSTALL AND ECONOMICAL

The Interceptor®-QV® is available in **four different sizes** and is able to handle a variety of applications from 2" to 100" pipelines or ducts.



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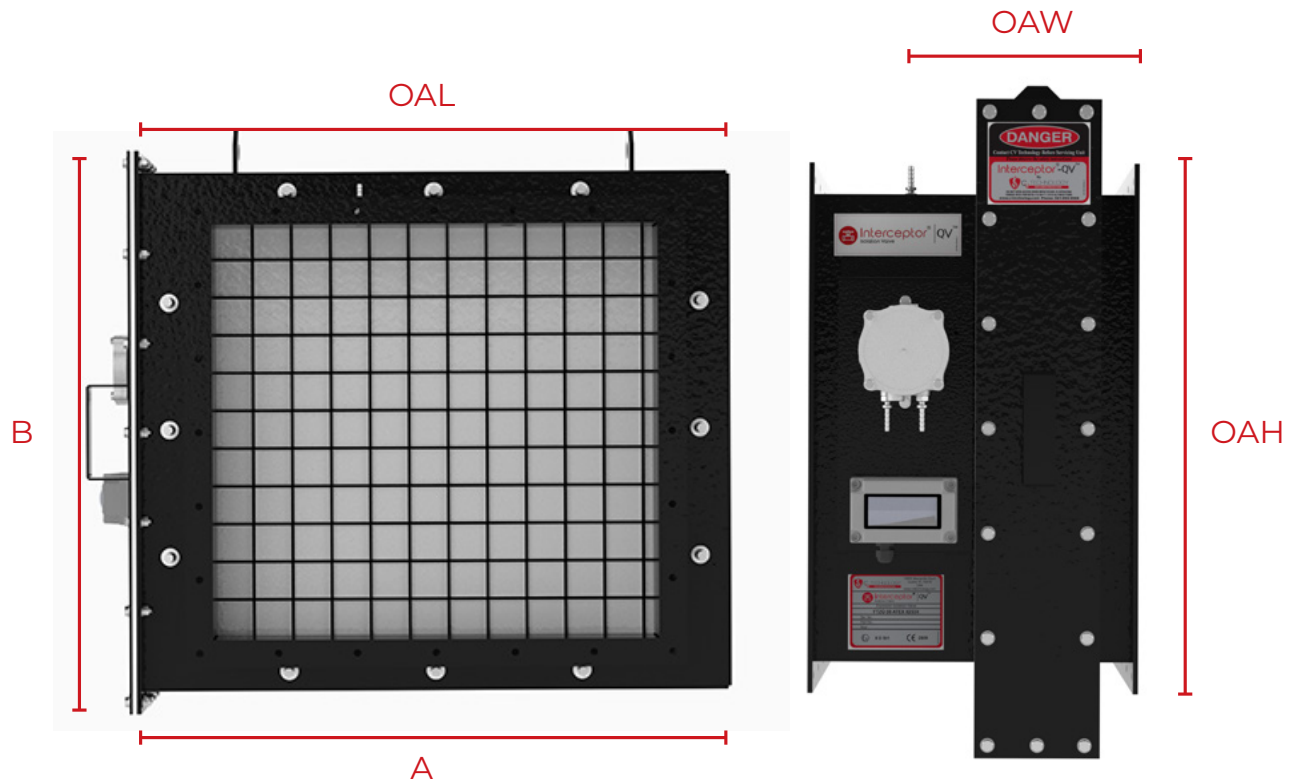
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## Superior Explosion Protection

Based on the principles of flameless venting, this quench valve will transform the way you care for clean air lines.



## ● DIMENSION

I-QV SIZE	OAL (in.) [mm]	OAW (in.) [mm]	OAH (in.) [mm]	A (in.) [mm]	B (in.) [mm]
I-QV 1	25.95 [659]	16.13 [410]	20.51 [521]	14.75 [375]	13.90 [353]
I-QV 2	35.12 [892]	16.13 [410]	32.76 [832]	26.75 [675]	25.90 [658]
I-QV 3	47.25 [1200]	16.13 [410]	44.51 [1130]	39.50 [1003]	37.90 [963]
I-QV 4	59.12 [1502]	16.13 [410]	56.64 [1439]	50.81 [1291]	49.91 [1268]

# SPECIFICATIONS



	Description
<b>Compliance and Certifications:</b>	NFPA 69 ATEX, EN 14373 Certified FM 7-76
<b>Versions:</b>	2-Zone HRD Controller 4-Zone HRD Controller 6-Zone HRD Controller 8-Zone HRD Controller 2-Zone VE and SG Controller 4-Zone VE and SG Controller
<b>Supply voltage:</b>	110VAC to 230VAC
<b>Power supply breaker:</b>	10A
<b>Power Supply Cable:</b>	16 Gauge
<b>Maximum Power Supply Cable:</b>	14 Gauge
<b>Current Consumption:</b>	100mA to 2.5A – 2-Zone 100mA to 10A – 4-Zone, 6-Zone, 8-Zone
<b>Environmental Ingress:</b>	IP65
<b>Response Time:</b>	<3ms
<b>Operating Temperature:</b>	-4°F to 122°F (-20°C to 50°C)
<b>Detection Line (power supply)</b>	24VDC/ 0 to 255 mA
<b>MGG Output Circuit (voltage / current):</b>	24VDC/2A
<b>Relay outputs:</b>	24 VDC/8 A
<b>Display Screen:</b>	LCD Display
<b>Memory Log:</b>	1024x events
<b>Interfacing:</b>	Push Buttons and Key Switches
<b>Battery Back-Up:</b>	HRD – 24 Hours VE/SG – 4 Hours or 24 Hours
<b>Detection Pairings:</b>	Single DetEx Pressure Detector Dual DetEx Pressure Detector LumEx Optical Detector EVS Module
<b>Paired Standard Accessories:</b>	Barrier Box (provided with all HRD Systems) PVM Module (provided with all VE Systems) IVM Module (provided with all SG Systems)

Contact us for more info!

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