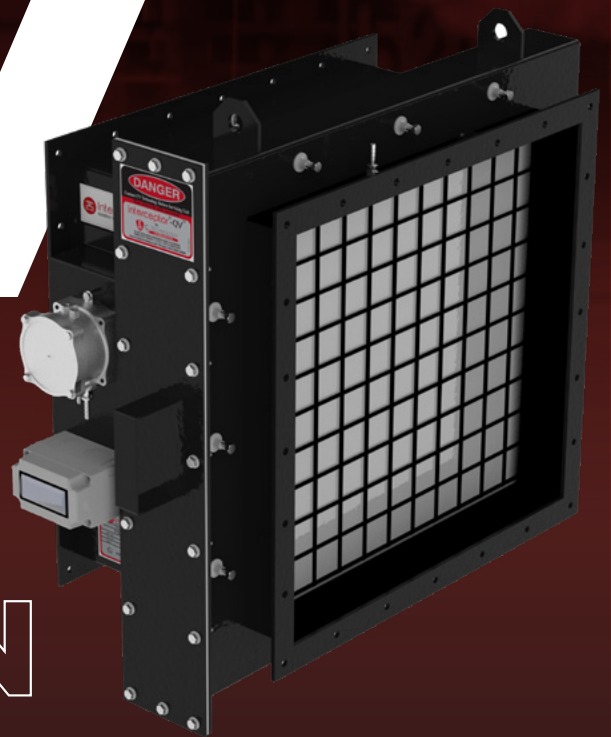




QV TECHNOLOGY®
FIRE AND EXPLOSION PROTECTION

QV

PASSIVE
ISOLATION



The Interceptor[®]-QV[®] 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[®]-QV[®].

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[®]-QV[®] 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[®]-QV[®] 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[®]-QV[®] 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

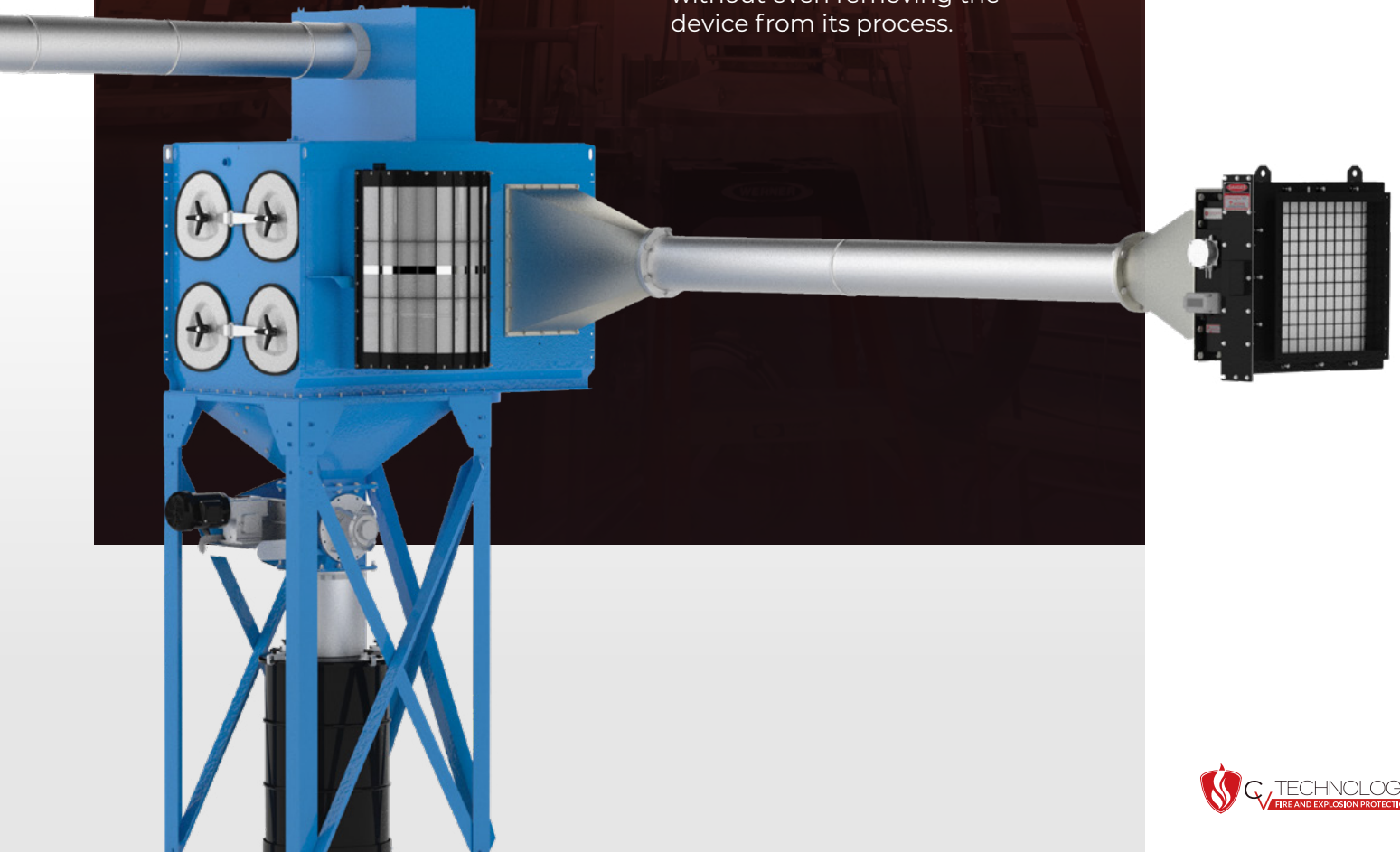
Continually monitors the pressure drop to inform you of mesh cartridge replacement needs.

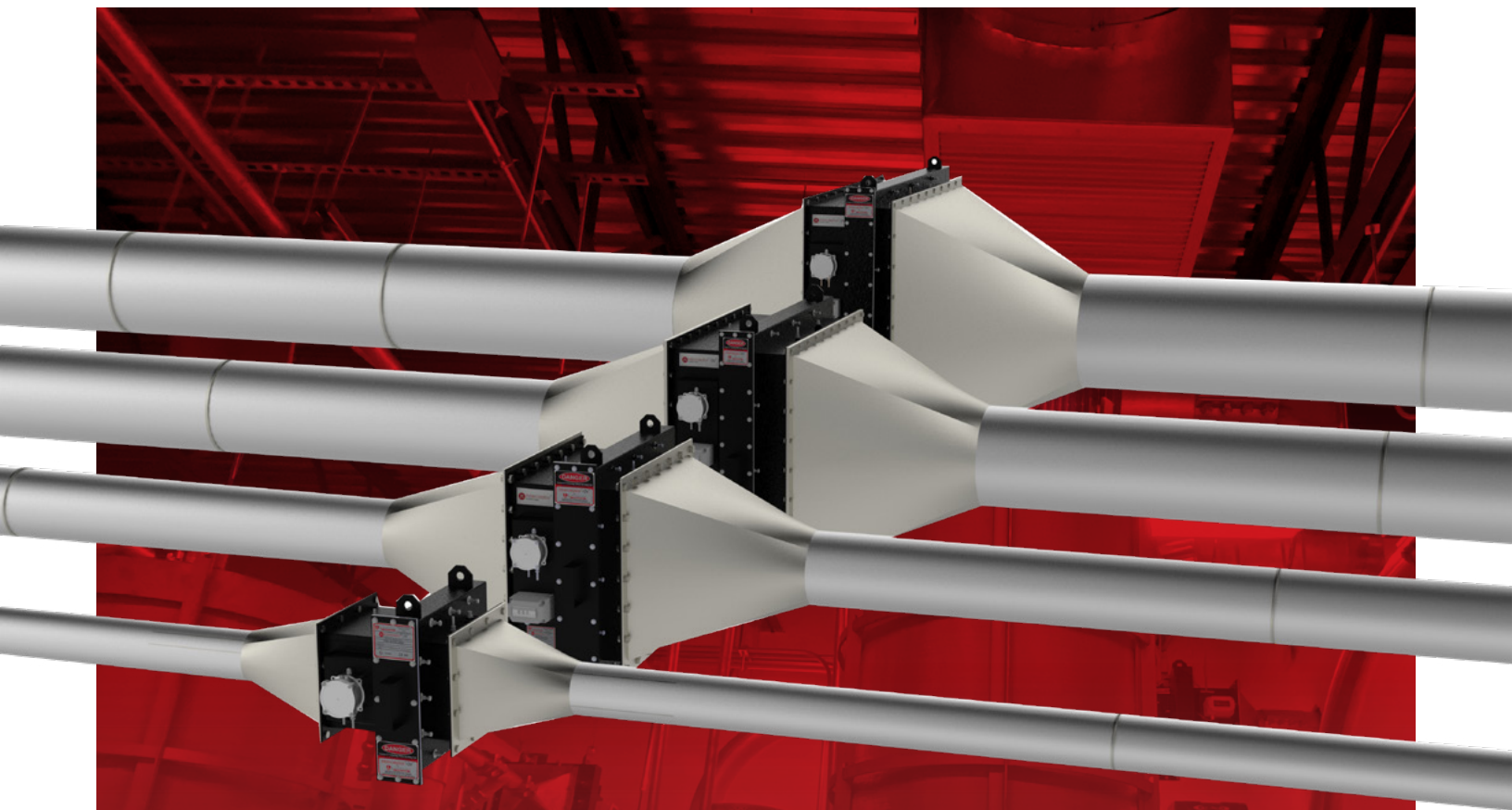
PASSIVE SYSTEM

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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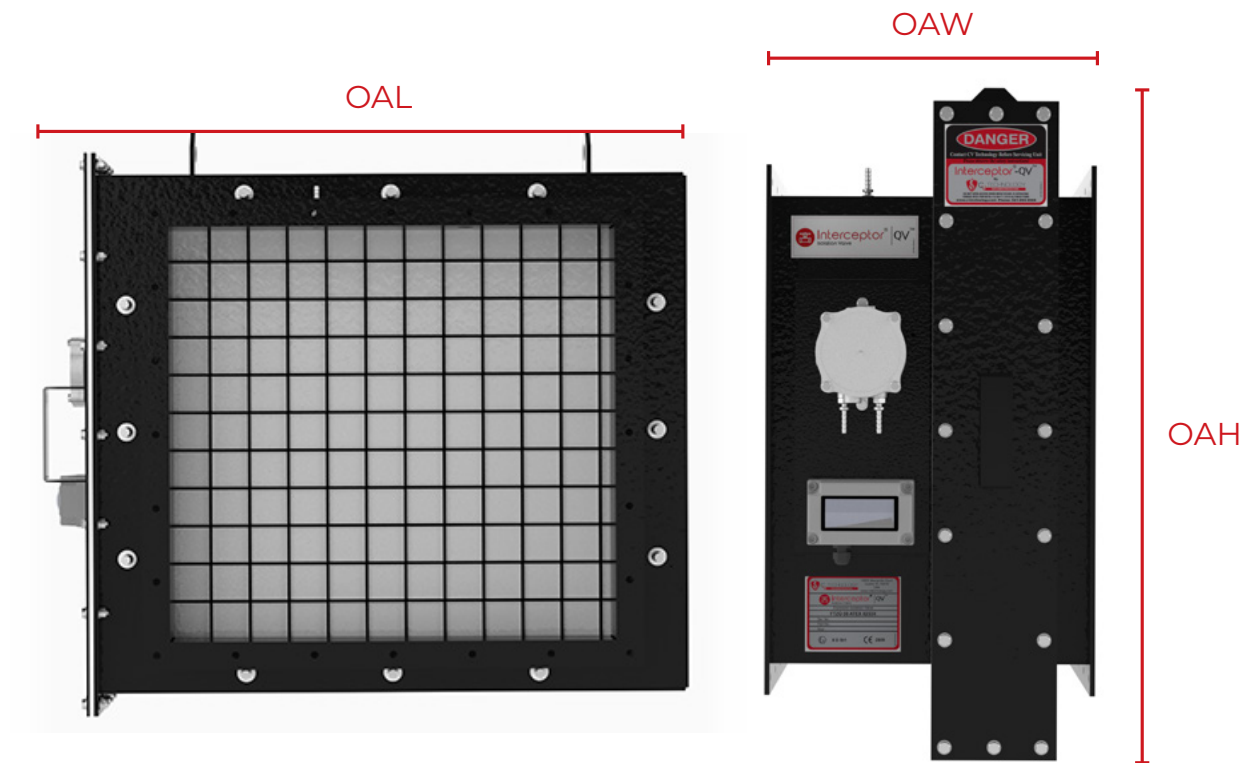
The pressure drop monitoring system on the Interceptor®-QV® gives facility operators peace of mind, knowing that the condition and status of the mesh cartridge is continuously monitored assuring them of passive protection.

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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]
I-QV 1	25.95 [659]	16.13 [410]	20.51 [521]
I-QV 2	35.12 [892]	16.13 [410]	32.76 [832]
I-QV 3	47.25 [1200]	16.13 [410]	44.51 [1130]
I-QV 4	59.12 [1502]	16.13 [410]	56.64 [1439]

SPECIFICATIONS



Interceptor[®]
Passive Isolation

QV[®]

	Description
Compliance and Certifications:	ATEX EN 15089, NFPA 69 Compliant
Sizes Offered:	QV1, QV2, QV3, QV4
Electrical Ratings:	24VDC, 120VAC, or 240VAC
Applications:	Organic, Melting, and Fibrous Dusts
Hazardous Location:	Class II, Div 2, contact CV Technology for Class II, Div 1 option
Environmental Ingress:	Pressure Differential Monitor (NEMA 7 and NEMA 9) Thermocouple Controller Enclosure (IP67, NEMA 1, 4, 4X, and 6)
Maximum Kst:	210 bar-m/s
Maximum Pred:	0.8 bar (QV2, QV3, and QV4); 1.1 bar (QV1)
Temperature Readings:	Option for Fahrenheit or Celsius
Ambient Temperature Range:	32 °F to 140°F (0 °C to 60 °C)
Process Temperature Range:	32 °F to 140°F (0 °C to 60 °C)
Minimum Install Distance:	0 ft (up to vessel wall)
Installation Orientation:	In-line or end-of-line
Housing Material:	Powder Coated Carbon Steel
Cartridge Material:	304 Stainless Steel
Replaceable Parts:	Access Door Gasket Cartridge Pressure Differential Switch Transition Connections Gasket Thermocouple + Cable TSF Limit Switch

Contact us for more info!

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