VIGIL**EX**®

Flameless Explosion Vent VQ

APPLICATIONS

The **Flameless Explosion Vent VQ** is a rectangular explosion device that combines a standard explosion panel with added protection to prevent flame from entering the environment.

The **Flameless Explosion Vent VQ** is certified for indoor and outdoor applications. It eliminates the need for costly heavy duty piping that is required for exterior venting when a vessel is installed within the workspace. The integral standard **Explosion Vent Panel** bursts during the initial explosion phase. Immediately thereafter, the flame and burnt dust exit the vessel and is contained by the **VQ** flame arrestor.

All **Flameless Explosion Vents** are designed with the ability to replace the explosion panel without removing the flame arrestor assembly.

Boss Products® technical engineering staff is dedicated to ensuring optimum design & product selection for every application.

CERTIFICATIONS & STANDARDS

Ex II GD - Ex II 2 D

EC Certificate : INERIS 14 ATEX 0049 X

NFPA 68 - NFPA 69 Compliant

Production quality assurance notification :
INERIS 08ATEXQ406

Certified for :
- Organic dust
- Fiber dust
- **Gas**

STANDARD FEATURES

- **Mild steel** construction **epoxy coated red**
- **Stainless steel** mesh

OPTIONAL FEATURES

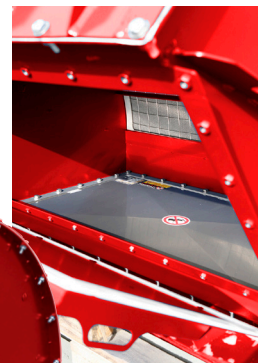- Silicone gasket
- All stainless steel construction
- Dust cover

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VIGIL**EX**®

APPLICATIONS

EV-VQ SPECIFICATIONS							
ECOMAXX® VIGILEX VQ			IN COMBINATION WITH VENT PANEL			BOLT SPECS	
in[mm]			Nominal Size in[mm]		Nominal Square ft²[m²]	Qty	Size
VQ	7 x 19	[170 x 470]	7 x 19	[170 x 470]	0.845	[0.0785]	20	M10 x 30
VQ	11 x 18	[270 x 458]	11 x 18	[270 x 458]	1.315	[0.1220]	22	M10 x 30
VQ	12 x 20	[300 x 500]	12 x 20	[300 x 500]	1.595	[0.1480]	24	M10 x 30
VQ	12 x 24	[305 x 610]	12 x 24	[305 x 610]	1.980	[0.1840]	26	M10 x 30
VQ	14 x 26	[350 x 650]	14 x 26	[350 x 650]	2.425	[0.2250]	26	M10 x 30
VQ	19 x 23	[490 x 590]	19 x 23	[490 x 590]	3.084	[0.2865]	32	M10 x 30
VQ	24 x 24	[610 x 610]	24 x 24	[610 x 610]	3.975	[0.3695]	32	M10 x 30
VQ	18 x 35	[457 x 890]	18 x 35	[457 x 890]	4.349	[0.4040]	34	M10 x 30
VQ	23 x 36	[586 x 920]	23 x 36	[586 x 920]	5.770	[0.5360]	42	M10 x 30
VQ	25 x 44	[645 x 1130]	25 x 44	[645 x 1130]	7.804	[0.7250]	34	M10 x 30
VQ	36 x 36	[920 x 920]	36 x 36	[920 x 920]	9.068	[0.8425]	50	M10 x 30
VQ	44 x 44	[1130 x 1130]	44 x 44	[1130 x 1130]	13.696	[1.2720]	58	M10 x 30

ADVANTAGES

Inspection * window

Access door

TECHNICAL INFORMATION

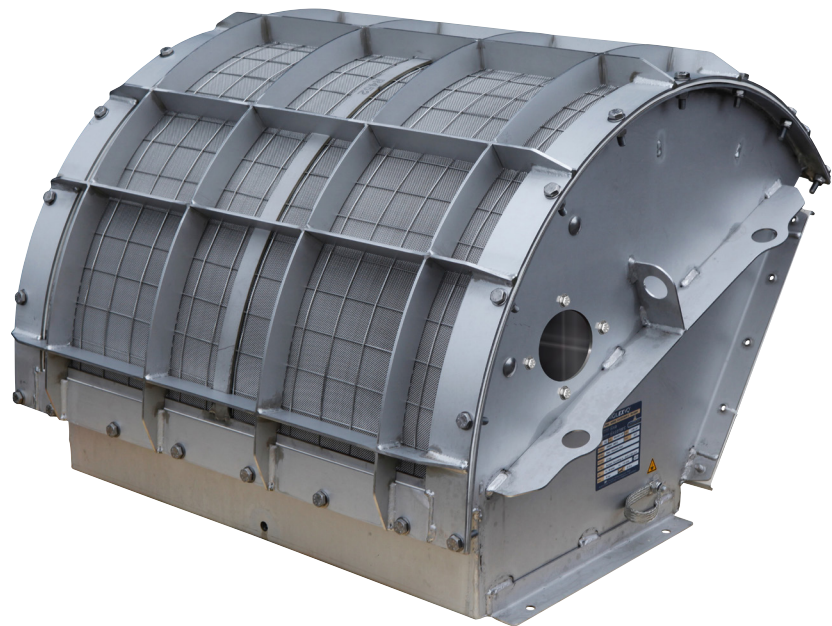| VQ	Kst max = 500	Pmax ≤ 145 psi / 10 bar	Pred ≤ 7 psi / 0.5 bar	Pstat = 1.45 to 3 psi / 0.1 to 0.5 bar

* Pred < 1.85 for VQ 920x920 and 1130x1130

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FLAMELESS STAINLESS STEEL VQ

The **Flameless Stainless Steel VQ** is a rectangular flameless device with a standard **VIGILEX** bursting panel. It is a perfect option for food or pharmaceutical facilities or high moisture atmospheres.

The **Flameless Stainless Steel VQ** provides effective low pressure resistance, eliminating the spread of flame and glowing particles.

STANDARD FEATURES

- **R Style Vent Panel** with **EPDM gasket**
- **Mild steel** construction **epoxy coated red**.
- **Stainless steel** mesh flame arrestor
- Burst sensor
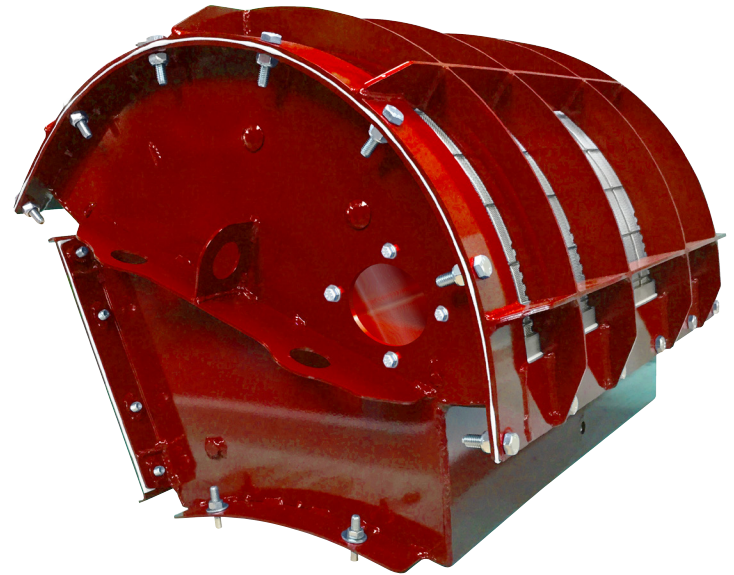- **Mounting radius per design application**

OPTIONAL FEATURES

- Dust cover

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Curved Flameless Explosion Vent VQ R

APPLICATIONS

The **Curved Flameless Explosion Vent VQ R** is similar to the standard **VQ**, but is available with an application specific curved flange to accommodate mounting on cylindrical vessels, without the need for expensive flange adapters. This design feature reduces accumulation of dust/material in a fabricated transition in front of the flameless vent's integral explosion panel.

STANDARD FEATURES

- **R Style Vent Panel** with **EPDM gasket**
- **Mild steel** construction **epoxy coated red**.
- **Stainless steel** mesh flame arrestor
- Burst sensor
- **Mounting radius per design application**

OPTIONAL FEATURES

- **Silicone** gasket
- **All stainless steel** construction
- **UL 698A Intrinsic** control panel
- Dust cover

Radius on request

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