# Legends Equipment

# Flameless Explosion Vent

## **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.





### **CERTIFICATIONS & STANDARDS**

Ex II GD - Ex II 2 D

EC Certificate: INERIS 14 ATEX 0049 X

NFPA 68 - NFPA 69

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**

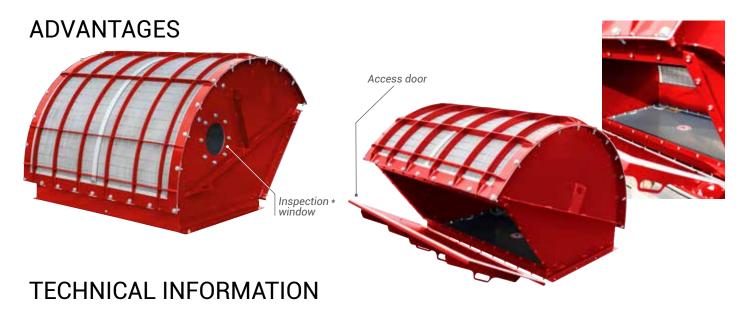
Silicone gasket

- All stainless steel construction
- Dust cover



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EV-VQ SPECIFICATIONS								
ECOMAXX® VIGILEX VQ			IN COMBINATION WITH VENT PANEL				BOLT SPECS	
in[mm]			Nominal Size in[mm]		Nominal Square ft <sup>2</sup> [m <sup>2</sup> ]		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



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