

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 flames 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 standard **Explosion Vent Panel** inside the flameless explosion vent 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
- Stainless steel construction
- Waterproof dust cover

PRODUCT DETAILS

FLAMELESS VQ LW(Light weight): Pred 7.25psi (0.5 bar)
FLAMELESS VQ HW(Heavy weight): Pred 33.3psi (2.3 bar)

EV-VQ SPECIFICATIONS

VIGILEX VQ		IN COMBINATION WITH VENT PANEL				WEIGHT LB/KG				BOLT SPECS	
		Nominal Size		Nominal Square		VQ LW		VQ HW		Qty	Size
Inches	mm.	Inches	mm.	Inches	mm.						
7 x 19	170 x 470	7 x 19	170 x 470	0.845	0.0785	105.8 lb	48 kg	130.1 lb	59 kg	20	M10 x 30
11 x 18	270 x 458	11 x 18	270 x 458	1.315	0.1220	132.3 lb	60 kg	163.1 lb	74 kg	22	M10 x 30
12 x 20	300 x 500	12 x 20	300 x 500	1.595	0.1480	147.7 lb	67 kg	180.8 lb	82 kg	24	M10 x 30
12 x 24	305 x 610	12 x 24	305 x 610	1.980	0.1840	174.2 lb	79 kg	211.6 lb	96 kg	26	M10 x 30
14 x 26	350 x 650	14 x 26	350 x 650	2.425	0.2250	185.2 lb	84 kg	222.7 lb	101 kg	26	M10 x 30
19 x 23	490 x 590	19 x 23	490 x 590	3.084	0.2865	207.2 lb	94 kg	271.2 lb	123 kg	32	M10 x 30
24 x 24	610 x 610	24 x 24	610 x 610	3.975	0.3695	246.9 lb	112 kg	324.1 lb	147 kg	32	M10 x 30
18 x 35	457 x 890	18 x 35	457 x 890	4.349	0.4040	257.9 lb	117 kg	335.1 lb	152 kg	34	M10 x 30
23 x 36	586 x 920	23 x 36	586 x 920	5.770	0.5360	299.3 lb	136 kg	392.4 lb	178 kg	42	M10 x 30
25 x 44	645 x 1130	25 x 44	645 x 1130	7.804	0.7250	489.4 lb	222 kg	229.1 lb	240 kg	34	M10 x 30
36 x 36	920 x 920	36 x 36	920 x 920	9.068	0.8425	698.9 lb	317 kg	1413.2 lb	641 kg	50	M10 x 30
44 x 44	1130 x 1130	44 x 44	1130 x 1130	13.696	1.2720	974.4 lb	442 kg	1768.1 lb	802 kg	58	M10 x 30

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ADVANTAGES



* Only available on VQ LW



TECHNICAL INFORMATION

VQ LW	Kst max = 500	Pmax ≤ 145 psi (10 bar)	Pred ≤ 7 psi (0.5 bar)	Pstat = 1.45 to 4.35 psi (0.1 to 0.3 bar)
VQ HW	Kst max = 500	Pmax ≤ 145 psi (10 bar)	Pred ≤ 33.3 psi (2.3 bar) *	Pstat = 1.45 to 7.25 psi (0.1 to 0.5 bar)

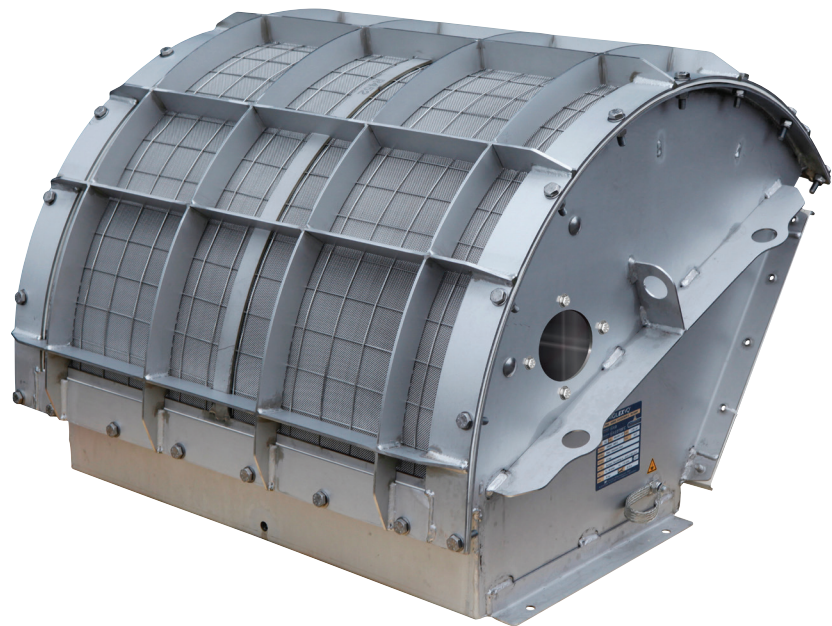
* Pred < 26.8 psi (1.85 bar) for VQ HW > 586x920

PRODUCT CODE: 60401

FLAMELESS STAINLESS STEEL VQ

The **Flameless Stainless Steel VQ** is a rectangular flameless device with a standard explosion vent 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 flames 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

- Waterproof Dust cover

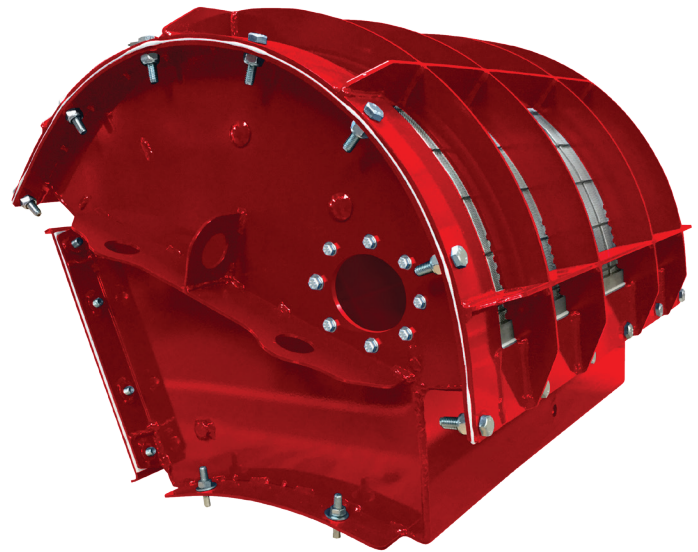


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Curved Flameless Explosion Vent VQ R

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 inner explosion vent 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

