

Flameless Explosion Vent EV-VQ

APPLICATIONS

The **EcoMAXX®/VigilEX EV-VQ** is a rectangular explosion device that combines a standard explosion panel with added protection to prevent flame from entering the environment. The **EV-VQ** flameless explosion vent is certified to be suitable for indoor and outdoor applications.

EcoMAXX®/VigilEX EV-VQ flameless explosion vents eliminate the need for costly heavy duty piping that is required for exterior venting when a vessel is installed within the workspace. The integral **standard EV explosion vent** bursts during the initial explosion phase. Immediately thereafter, the flame and burnt dust exit the vessel and is contained by the **EV-VQ** flame arrestor. All **EV-VQ** flameless vents are designed with the ability to change 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

EN 16009

EC Certificate : INERIS 14 ATEX 0049 X

NFPA 68 - NFPA 69

Production quality assurance notification :
INERIS 08ATEXQ406

certified for :

- Organic dust
- Metal dust
- Fiber dust
- Gas

NEW



STANDARD FEATURES

- Mild steel construction epoxy coated red
- Stainless steel mesh

OPTIONAL FEATURES

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

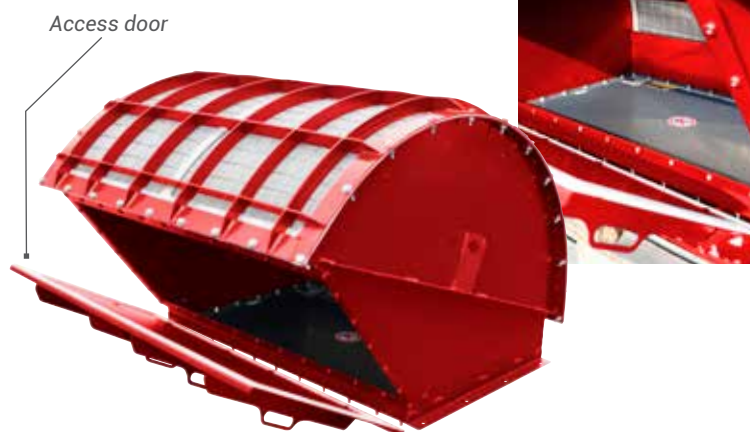


PRODUCT CODES: 60301 & 60302

DIMENSIONS

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



TECHNICAL INFORMATION

EV-VQ

$K_{st} \text{ max} = 500$

$P_{max} \leq 145 \text{ psi} / 10 \text{ bar}$

$P_{red} \leq 7 \text{ psi} / 0.5 \text{ bar}$

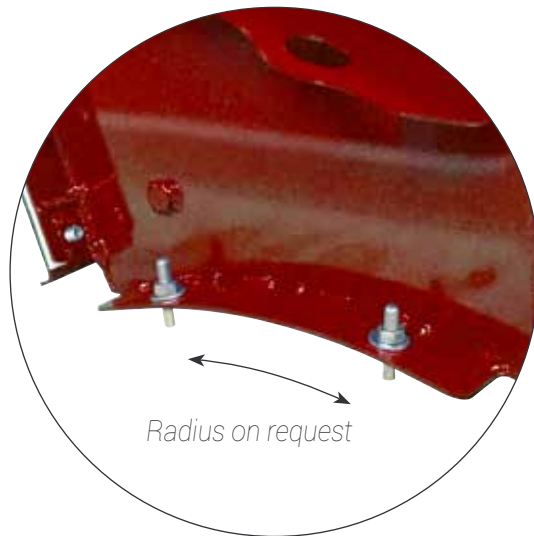
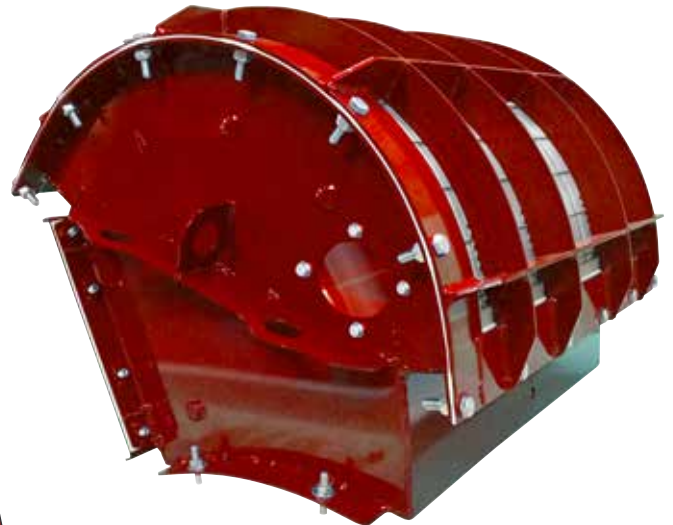
$P_{stat} = 1.45 \text{ to } 3 \text{ psi} / 0.1 \text{ to } 0.5 \text{ bar}$

* $P_{red} < 1.85$ for VQ 920x920 and 1130x1130

Flameless Explosion Vents Curved EV-VQ R

APPLICATIONS

The EcoMAXX®/VigilEX EV-VQ R flameless explosion vent is similar to the standard EV-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

Dust cover





PRODUCT CODES: 60301 & 60302

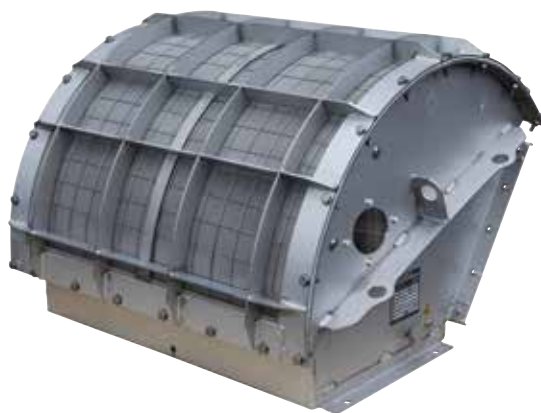
METAL DUST APPROVED EN 16009

EcoMaXX®/VigilEX EV-VQ flameless explosion vents are certified to protect facilities, workers, and equipment that process combustible metals. It is an especially important safety component that has application in all combustible dust environments where risks to workers and property exist.

Boss Products will provide a specifically engineered equipment solution that is calculated to ensure effective Fire & Explosion Mitigation. **EV-VQ flameless explosion vents** are typically an effective and necessary component in hazardous dust design applications.



FLAMELESS STAINLESS STEEL EV-VQ



The EcoMAXX®/VigilEX-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 EcoMAXX®/VigilEX-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



copyright 2020 Boss Products, LLC