

R-IQR Flameless Explosion Relief Vent



Description

The R-IQR is a Rectangular Flameless Explosion Relief Vent certified for venting combustible dusts having K_{st} dust explosibility values up to 350 bar.m/s. It is suitable for a wide range of non-metallic combustible dust applications requiring a passive method of protection in areas where flame retention is required. This includes inside installations and outside installations where people or combustible materials are present.

Operating Parameters

K_{st} max 350 bar.m/s

P_{max} < 10 bar (145 psi)

P_{red} < 2 bar (29 psig)

P_{stat} = 0.1 bar (1-1/2 psi)

Vacuum Resistance = 0.75 psig as standard.
Higher vacuum resistance available upon request.

Ease of Installation and Maintenance

The explosion relief vent housing is mounted on the process before the explosion relief vent panel is installed. This reduces the potential for the vent panel to be damaged during installation. The inspection door through which the vent is inserted for installation also enables the user to inspect the vent panel in place.

Materials of Construction

Body Construction: Carbon Steel (Painted)

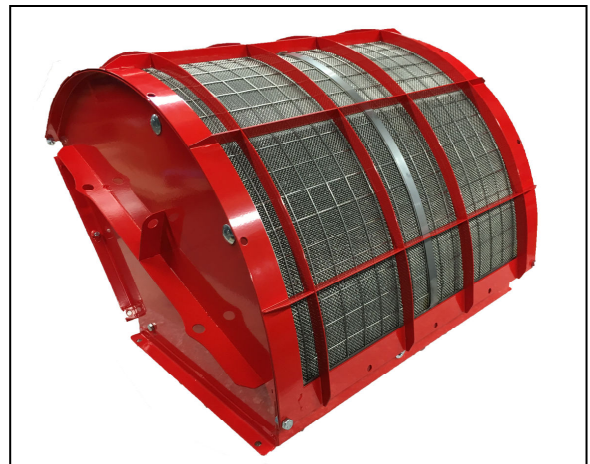
Mesh Cartridge: Stainless steel

Process Interface: Gasket (EPDM/Silicone) and Stainless Steel Explosion Panel (304L/316)

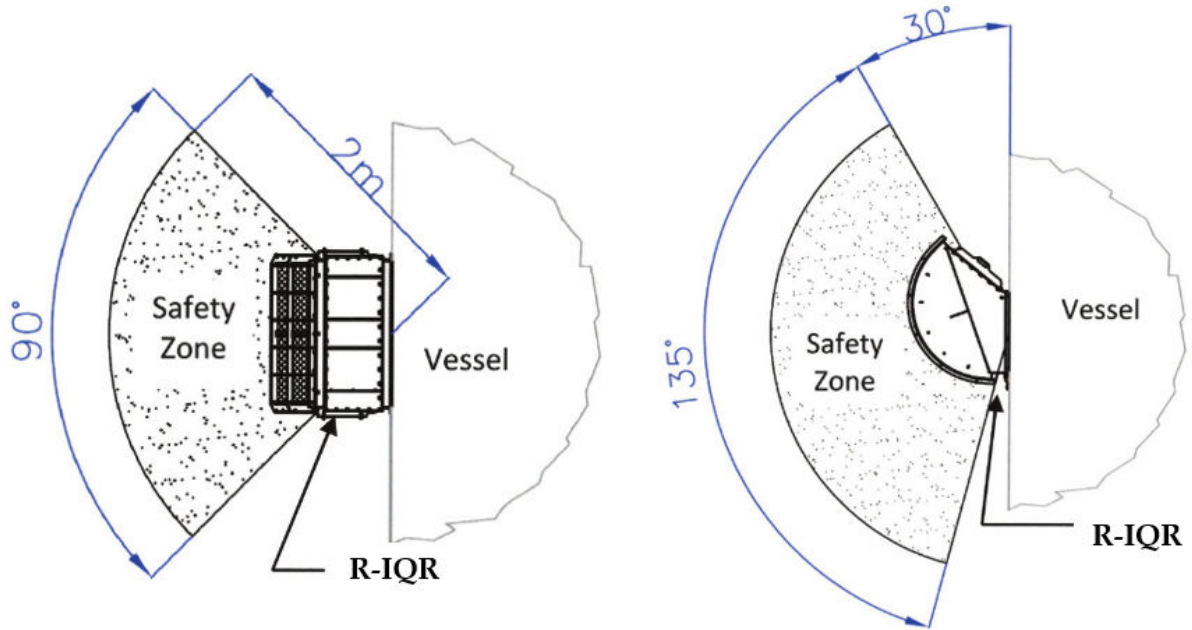
Optional: Lightweight dust cover available (To prevent process dust accumulation).

Advantages

- Provides a passive solution for Explosion Protection
- Vent panel installed after housing is installed, reducing potential for damage
- Explosion Panel can be inspected via an inspection door
- Integral Vent Sensor (used to stop process)



View of Inspection Door on R-IQR



Safety Zone for R-IQR Installation

R-IQR Size (mm)	Nominal Vent Size (inches)
920 x 586	36 x 23
600 x 610	24 x 24
490 x 590	19 x 23
350 x 650	14 x 26
305 x 610	12 x 24
300 x 500	12 x 20
270 x 548	11 x 22
170 x 470	7 x 19

A vent efficiency factor must be applied by BS&B to determine the effective vent area. Vent Efficiency Corrections have been determined by testing to EN 16009:2011).

This data sheet is for reference purposes only and is subject to change without notice. The R-IQR must be correctly sized for a particular application. When evaluating your protection needs, explosion isolation should be considered on any process that has connections to other work areas or process volumes. BS&B Pressure Safety Management provides a complete range of explosion protection solutions. Please contact us for assistance in selecting and sizing a suitable method of protection for your process.

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