

Composite, high performance explosion vents Type VV-S

Description

The VV-S type vent is a composite membrane, high performance explosion vent. VV-S vents are lightweight and specifically designed for dynamic non-fragmenting operation during venting of explosions from industrial equipment.

All applicable requirements of EN 13237, European Standard for Explosion Venting Devices (pending) and NFPA 68, Guide for Venting of Deflagrations, are met with this design. This explosion vent provides excellent service life for vacuum operating pressure, severe process cycling, high operating pressures.



Features and Benefits

- Venting efficiency of 100% according to EN 13237
- Burst pressure, P_{stat} , is determined by destructive testing as required by the applicable standards
- No moving parts and maintenance-free
- 60% operating ratio
- Can operate up to a level of vacuum suitable for most industrial applications, without restricting the explosion relief area
- Non-fragmenting
- ATEX-compliant

Specifications

Type	VV-S
Sizes	470 x 570 mm to 1000 x 1000 mm
Materials of Construction	Stainless Steel / Teflon / Stainless Steel
Maximum Operating Pressure	60% of the minimum burst pressure
Maximum Vacuum Rating	Up to 50 mbar vacuum for all sizes
Burst Pressure Tolerance	± 15 mbarg
Operating Temperature Range	-20°C up to 60°C

Standard Dimensions

Relief Area (m ²)	Nominal Size (mm)	Nominal Burst Pressure (mbarg) (± 15% at 20°C)	Vacuum Rating (mbarg)
0.268	470 x 570	100	50
0.390	625 x 625	100	50
0.509	566 x 900	100	50
0.810	900 x 900	100	50
1.000	1000 x 1000	100	50