

SINGLE ELEMENT VENT FOR HYGIENIC APPLICATIONS WITH HIGH VACUUM AND OPERATING CONDITIONS TYPE SANI-V-S™



DESCRIPTION

Damage to industrial equipment subjected to explosions can be controlled through the use of explosion venting. Explosion venting as a concept introduces a 'weak element' in the pressure envelope of the equipment, relieving the internal combustion pressure in case of an explosion.

Fike's high performance Sani-V-S™ explosion vents for Clean in Place / Steam in Place applications are designed:

- with lightweight construction for simplified handling and minimal risk related to damage during installation;
- to meet all applicable requirements of European Standard for Explosion Venting Devices (EN 14797) and NFPA 68 Guide for Venting of Deflagrations;
- to satisfy the specific needs for clean production environments.



APPROVALS:

- ATEX
- EAC



FEATURES AND BENEFITS

- Crevice free design
- Full aseptic materials of construction
- Superior leak tightness
- Minimized risk for accidental contamination
- No extra mounting frame, saving materials and labour costs
- Protected sealing element
- Outstanding operating performance
- Optimum relief area
- Compatible with Fike's FlamQuench flameless venting devices (required burst indicator)

OTHER KEY VALUES

- Controlled burst pressure
- Low maintenance
- High operating ratio
- High vacuum rating
- Fail Safe design
- Non-fragmenting
- High-mechanical integrity

MAIN INDUSTRIES SERVED

- Pharmaceutical
- Biotech
- Food and beverage
- Cosmetics
- Dairy



SPECIFICATIONS

Type	Sani-V-S™
Shapes	Rectangular
Sizes ¹	470 x 570 mm to 1000 x 1000 mm (see table below)
Materials of Construction ² (Food Grade Quality - FDA & EC1935 compliant)	Stainless Steel Membrane : SST Seal : Silicone Process Gasket : EPDM (up to 120°C) / Silicone (160°C)
Maximum Operating Pressure	Up to 80% of the minimum burst pressure
Burst Pressure Tolerance ³	Nominal burst pressure ≤ 100 mbarg: ± 15 mbarg 100 mbarg < burst pressure ≤ 250 mbarg: ± 25 mbarg Burst pressure > 250 mbarg: ± 50 mbarg
Operating Temperature Range ⁴	-20°C up to 160°C

(1) Other sizes are available on request, consult factory.

(2) Other materials are available on request, consult factory.

(3) For certain sizes and burst pressures, reduced tolerances may be available. Consult factory.

(4) As specified by ATEX Guidelines 2014/34/EU 1st edition the certification applies for operating temperature range between -20°C and +60°C. Consult factory for further information.

The Sani-V-S™ can be supplied with electrical break-wire type burst indicator.

For thermal / acoustic insulation an Ex-Cover is recommended. Consult Fike for details.



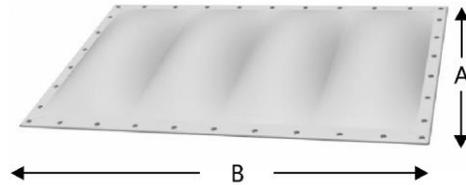
STANDARD DIMENSIONS

Fike offers a range of standard Sani-V-S explosion vents in rectangular configurations with the following characteristics

Explosion Vent				Angled Frame	
Nominal Size	Relief Area	Burst Pressure at 22°C in mbarg		Vacuum Rating up to ¹	Size (AxB)
		Min	Max		
mm	m ²			mbar	mm
470 x 570	0.262	100	703	951	578 x 678
500 x 1000	0.491	100	503	551	608 x 1108
566 x 900	0.501	100	503	434	674 x 1008
900 x 900	0.799	100	399	248	1008 x 1008
1000 x 1000	0.988	100	248	199	1108 x 1108

(1) Vacuum ratings are indicative and related to Bp.

Beside the standard range of Fike explosion vents, Fike offers a wide variety of optional materials, dimensions and configurations. Please do contact Fike for your specific custom Sani-V-S requirements.



U.S. Patent 7,234,278 and Foreign Patents.