

DATA SHEET

SINGLE ELEMENT VENT FOR HYGIENIC APPLICATIONS TYPE SANI-V™



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-VTM 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.

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
- Optimum relief area





APPROVALS:

- ATEX
- EAC

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OTHER KEY VALUES

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

MAIN INDUSTRIES SERVED

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

SPECIFICATIONS

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

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This document is only intended to be a guideline and is not applicable to all situations. Information subject to full disclaimer at http://www.fike.com/disclaimer

⁽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 1^{st} edition the certification applies for operating temperature range between -20°C and +60°C. Consult factory for further information.



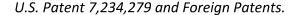
The Sani-V[™] can be supplied with electrical break-wire type burst indicator. For thermal / acoustic insulation an Ex-Cover is recommended. Consult Fike for details.

STANDARD DIMENSIONS

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

	Angled Frame						
Nominal Size	Relief Area	Burst Pre 22°c in	Bolts			Size (AxB)	
mm	m2	Min	Max	Qty	D2	Size	mm
470 x 570	0.267	75	460	26	14	M10	578 x 678
500 x 1000	0.500	50	260	34	14	M10	608 x 1108
566 x 900	0.509	50	260	34	14	M10	674 x 1008
900 x 900	0.809	50	200	40	14	M10	1008 x 1008
1000 x 1000	0.999	50	200	44	14	M10	1108 x 1108

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 requirements.





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