

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-V™ 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



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

Type	Sani-V™
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 / Maximum Vacuum Rating	Up to 50% 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™ 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.

Explosion Vent							Angled Frame
Nominal Size	Relief Area	Burst Pressure at 22°c in mbarg		Bolts			Size (AxB)
		Min	Max	Qty	D2	Size	
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.

U.S. Patent 7,234,279 and Foreign Patents.

