

### Single Element Vent Suitable 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
- Leak Proof until Burst
- Minimized Risk for Accidental Contamination
- No Extra Mounting Frame, Saving Materials and Labour Costs
- Protected Sealing Element
- Outstanding Operating Pressure Performance
- Optimum Relief Area
- Compliance with European ATEX-Directive

#### Other Key Values

- Certified Burst Pressure
- No Maintenance
- Highest Operating Ratio
- Fail Safe Design
- Non-fragmenting
- High-Mechanical Integrity

#### Main Industries Served

- Pharmaceutical
- Biotech
- Food and Beverage
- Cosmetics
- Dairy

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All above data are subject to change without notice. They must not be used unless confirmed in writing.

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1/2

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## Specifications

<b>Shapes</b>	<b>RECTANGULAR</b>
<b>Sizes (1)</b>	470 x 570 mm to 1000 x 1000 mm (see table 1)
<b>Materials of Construction (Food Grade Quality) (2)</b>	Stainless Steel
	Membrane: SST
	Seal: Silicone
	Process Gasket: EPDM (up to 120°C) Silicone (up to 240°C)
<b>Maximum Operating Pressure / Maximum Vacuum Rating</b>	up to 50% of the minimum burst pressure
<b>Burst Pressure Tolerance (3)</b>	nominal burst pressure ≤ 100 mbarg : ± 15 mbarg 100 mbarg < burst pressure ≤ 250 mbarg : ± 25 mbarg burst pressure > 250 mbarg : ± 50 mbarg
<b>Operating Temperature Range</b>	-40°C up to 240°C continuous (up to 260°C intermittent)

(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.

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:

TABLE 1

EXPLOSION VENT						ANGLE FRAME		
Nominal Size in mm	Relief Area in m <sup>2</sup>	Efficiency %	Min. BP in mbarg at 22°C	Max. BP in mbarg at 22°C	Bolts			Size in mm A x B
					Qty	D2	size	
470 x 570	0.267	100	75	460	26	14	M10	578 x 678
500 x 1000	0.500	100	50	260	34	14	M10	608 x 1108
566 x 900	0.509	100	50	260	34	14	M10	674 x 10008
900 x 900	0.809	100	35	200	40	14	M10	1008 x 1008
1000 x 1000	0.999	100	35	200	44	14	M10	1108 x 1108

To accommodate cost and delivery demands of the market, these vent sizes have been selected which are produced for stock with a nominal burst pressure of 0.1 barg ± 15% at 22°C.

Beside the standard range of Fike explosion vents, Fike offers a wide variety of optional materials, dimensions, and configurations. Fike Sani-V™ explosion vents can be made to practically any customer requirements.

