

Single Element Vent for Hygienic Applications with High Vacuum & 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.

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
- Compatible with Fike's FlamQuench flameless venting devices (requires burst indicator)
- Compliance with European ATEX-Directive

Other Key Values

- Certified Burst Pressure
- No Maintenance
- Highest Operating Ratio
- Highest Vacuum Rating
- 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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Specifications

Shapes	RECTANGULAR	
Sizes (1)	470 x 570 mm to 1000 x 1000 mm (see table 1)	
Materials of Construction (Food Grade Quality) (2)	Stainless Steel	
	Membrane: SST	
	Seal: Silicone	
	Process Gasket: EPDM (up to 120°C) Silicone (up to 240°C)	
Maximum Operating Pressure / Maximum Vacuum Rating	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	-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-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

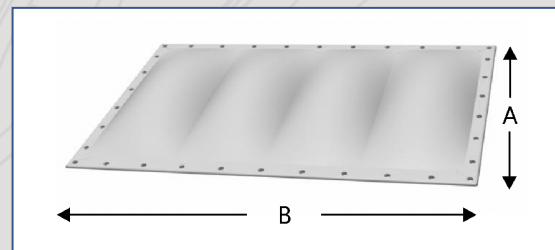
Fike offers a range of standard Sani-V-S™ explosion vents in rectangular configurations with the following characteristics:

TABLE 1

EXPLOSION VENT					ANGLE FRAME	
Nominal Size in mm	Relief Area in m ²	Efficiency %	Burst Pressure at 22°C in mbarg		Vacuum Rating in mbarg	Size in mm
			MIN	MAX		A x B
470 x 570	0.262	100	83	144	103	578 x 678
			145	179	262	
			180	344	434	
			345	703	951	
500 x 1000	0.491	100	63	103	172	608 x 1108
			104	193	275	
			194	503	551	
566 x 900	0.501	100	69	96	234	674 x 1008
			97	199	241	
			200	503	434	
900 x 900	0.799	100	21	48	62	1008 x 1008
			49	96	96	
			97	399	248	
1000 x 1000	0.988	100	42	75	68	1108 x 1108
			76	248	199	

To accommodate cost and delivery demands of the market, a number of explosion 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-S™ explosion vents can be made to practically any customer requirements.



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

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