



SANI-V-S EXPLOSION VENTS

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-STM explosion vents for Clean In Place/Steam In Place applications were designed:

- With lightweight construction for simplified handling and minimal risk related to damage during installation
- To meet all applicable requirements of NFPA 68, and European Standard for Explosion Venting Devices (EN14797)
- To satisfy the needs for clean production environments

Applicable industries for Fike's explosion vents include pharmaceutical, biotech, food and beverage, cosmetics, and many others.

BENEFITS

administrations

FEATURES

- Crevice free process area (CIP/SIP compliant):
- · Full aseptic materials of construction
- · Positive sealing
- · Minimized risk for accidental contamination
- No external mounting frame (for most popular burst pressures)
- Protected sealing element
- Outstanding operating pressure performance
- · Optimal relief area

Other key features include:

- · High mechanical integrity
- Certified burst pressure
- Maintenance-free
- Highest operating ratio
- Up to full vacuum rating
- Non-fragmenting
- Compliant with European ATEX-Directive 94/9/EC and NFPA 68 Guidelines



No crevices or openings where bacteriological hazards may exist

Complies with requirements of general food, beverage, and drug

Unique seal offers long-term pressure seal under harsh operating

Provides instantaneous full opening of membrane, eliminating undetected small openings and unwanted risk of contamination

Vent pressure sealing area protected against mechanical damage

Offers excellent service life (positive/vacuum pressures up to

conditions and acts as a bacteriological barrier

Generating cost-savings in materials and labor

80% of the minimum burst pressure)

Provides 100% venting efficiency

Form No. X.1.12.01-1

SPECIFICATIONS

- Materials of construction(food grade quality):
 - Membrane: Stainless Steel
 - Seal: Silicone
 - Process Gasket: EPDM, up to 245°F (120°C), Silicone, up to 460°F (240°C)
- Maximum Operating Pressure/Maximum Vacuum Rating: Up to 80% of the minimum stamped burst pressure
- Burst Pressure Tolerance:
 - ± 15 mbarg for nominal burst pressure ≤ 100 mbarg; ± 0.25 psig for nominal burst pressure < 1.5 psig
 - ± 25 mbarg for nominal burst pressure ≤ 250 mbarg; ± 0.36 psig for burst pressure ≥ 1.5 and ≤ 3.6 psig
 - \pm 50 mbarg for nominal burst pressure >250 mbarg; \pm 0.75 psig for burst pressure > 3.6 psig
- Operating Temperature Range: -40 to 240°C / -40 to 460°F (continuous); up to 260°C/500°F intermittent

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

Explosion vent Dimensions are nominal				Burst Pressure (psi at 72° F)		Vacuum rating (psi)	External Dimensions	
Relief	Relief	Size	Size	Minimum	Maximum		mm	inches
area m²	area Ft²	mm	inches					
.262	2.8	470 x 570	18.5 x 22	1.2	2.1	1.5	578 x 678	22.75 x 26.7
.267				2.1	2.6	3.8		
				2.6	5.0	6.3		
				5.0	10.2	13.8		
.491	5.8	500 x 1000	19.5 x 39	0.9	1.5	2.5	608 x 1108	24 x 43.5
.500				1.5	2.8	4.0		
				2.8	7.3	8.0		
.501	5.4	566 x 900	22 x 35	1.0	1.4	3.4	674 x 1008	26.5 x 39.5
.509				1.4	2.9	3.5		
				2.9	7.3	6.3		
.799	8.6	900 x 900	35 x 35	0.3	0.7	0.9	1008 x 1008	39.5 x 39.5
.809				0.7	1.4	1.4		
				1.4	5.8	3.6		
.988	10.6	1000 x 1000	39 x 39	0.6	1.1	1.0	1108 x 1108	43.5 x 43.5
.999				1.1	3.6	2.9		

OPTIONAL EQUIPMENT

The Sani-V-S can be supplied with electrical break-wire type burst indicator. For thermal/acoustic insulation an Ex-Cover is recommended.

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

