

SANI-V 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 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.



FEATURES AND BENEFITS

- No crevices or openings where bacteriological hazards may exist.
- Complies with requirements of general food, beverage, and drug administrations.
- Unique seal offers long-term pressure seal under harsh operating conditions and acts as a bacteriological barrier.
- Provides instantaneous full opening of membrane, eliminating undetected small openings and unwanted risk of contamination.
- No external mounting frame (for most popular burst pressures)
- Vent pressure sealing area protected against mechanical damage
- Excellent service life
- Provides 100% venting efficiency.
- High mechanical integrity
- Certified burst pressure
- Maintenance-free
- Highest operating ratio
- 50% burst pressure vacuum rating
- Fail safe design
- Non-fragmenting
- Compliant with European ATEX-Directive 94/9/EC and NFPA 68 Guidelines
- Compatible with Fike’s FlamQuench flameless venting devices (requires burst indicator)

Form No. X.1.11.01-5

SPECIFICATIONS

Materials of Construction (food grade quality):	Membrane: Stainless steel Seal: Silicone Process Gasket: EPDM, up to 120°C (245°F), Silicone, up to 240°C (460°F)
Maximum Operating Pressure/ Maximum Vacuum Rating:	up to 50% of the minimum stamped burst pressure
Burst Pressure Tolerance:	± 15 mbarg for nominal burst pressures ≤ 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 50 mbarg for nominal burst pressure ≥ 250 mbarg; ± 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 explosion vents in rectangular configurations with the following characteristics:

Explosion Vent Dimensions are Nominal				Burst Pressure (psi @ 72°F)		Bolts			External Dimensions	
Relief Area M ²	Relief Area Ft ²	Size mm	Size inches	Minimum	Maximum	Qty	D2	Size	mm	inches
.267	2.9	470 x 570	18.5 x 22	1.0	6.5	26	.5"	3/8"	578 x 678	22.75 x 26.7
.500	5.3	500 x 1000	19.5 x 39	.75	3.75	34	.5"	3/8"	608 x 1108	24 x 43.5
.509	5.4	566 x 900	22 x 35	.75	3.75	34	.5"	3/8"	674 x 1008	26.5 x 39.5
.809	8.7	900 x 900	35 x 35	.50	2.9	40	.5"	3/8"	1008 x 1008	39.5 x 39.5
.999	10.8	1000 x 1000	39 x 39	.50	2.9	44	.5"	3/8"	1108 x 1108	43.5 x 43.5

ACCESSORIES

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

The optional Rupture Indicator (RI) includes a 3 meter cable with flying leads for connection to monitoring equipment. Extension cables are available if additional length is required. Extension cables include a convenient feed through connector, making it simple to achieve a secure connection.



Fike P/N	Description
93700006-S	10 meter RI Extension Cable with feed through connector
93700007-S	25 meter RI Extension Cable with feed through connector

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



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