DATA SHEET

SANI-VS EXPLOSION VENTS

Sani-VS Explosion Vent

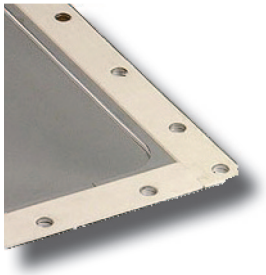
DESCRIPTION

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-VS 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.



Sani-VS Explosion Vent showing food grade silicone seal

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 (positive/vacuum pressures up to 80% of the minimum burst pressure)
- Provides 100% venting efficiency
- High mechanical integrity
- Certified burst pressure
- Maintenance-free
- Highest operating ratio
- Compatible with Fike’s FlamQuench flameless venting devices (requires burst indicator)
- Non-fragmenting

SPECIFICATIONS

Materials of Construction: (food grade quality)	Membrane: 316 SST Seal: Silicone Process Gasket: EPDM, up to 245°F (120°C), Silicone, up to 460°F (240°C)
Maximum Operating Pressure:	up to 80% of the minimum stamped burst pressure
Burst Pressure Tolerance:	± 15 mbarg for nominal bust 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

704 SW 10th Street • P.O. Box 610 • Blue Springs, Missouri 64013-0610 U.S.A.
Phone: 816•229•3405 • www.fike.com

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

Explosion Vent Dimensions are Nominal				Burst Pressure (psig @ 72°F)		Vacuum Rating (psig)	External Dimensions	
Size mm	Size IN	Relief Area m^2	Relief Area ft^2	Minimum	Maximum		mm	IN
470 x 570	18.5 x 22	.262	2.8	1.2 2.1 2.6 5.0	2.1 2.6 5.0 10.2	1.5 3.8 6.3 13.8	578 x 678	22.75 x 26.7
500 x 1000	19.5 x 39	.491	5.3	0.9 1.5 2.8	1.5 2.8 7.3	2.5 4.0 8.0	608 x 1108	24 x 43.5
566 x 900	22 x 35	.501	5.4	1.0 1.4 2.9	1.4 2.9 7.3	3.4 3.5 6.3	674 x 1008	26.5 x 39.5
900 x 900	35 x 35	.799	8.5	0.3 0.7 1.4	0.7 1.4 5.8	0.9 1.4 3.6	1008 x 1008	39.5 x 39.5
1000 x 1000	39 x 39	.988	10.6	0.6 1.1	1.1 3.6	1.0 2.9	1108 x 1108	43.5 x 43.5

ACCESSORIES

The Sani-VS 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

Form No. X.1.12.01-7, March 2013. Specifications are subject to change without notice.