DATA SHEET

SANI-V EXPLOSION VENTS

Sani-V Explosion Vent

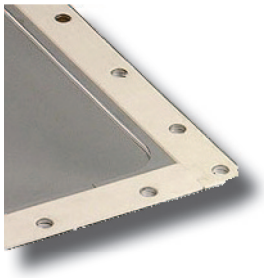
DESCRIPTION

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-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.



Sani-V 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 act 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)

SPECIFICATIONS

Materials of Construction: (food grade quality)	Membrane: 316 SST 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 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-V explosion vents in rectangular configurations with the following characteristics:

Explosion Vent Dimensions are Nominal				Burst Pressure (psig @ 72°F)		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	.267	2.9	1.0	6.5	578 x 678	22.75 x 26.7
500 x 1000	19.5 x 39	.500	5.3	.75	3.75	608 x 1108	24 x 43.5
566 x 900	22 x 35	.509	5.4	.75	3.75	674 x 1008	26.5 x 39.5
900 x 900	35 x 35	.809	8.7	.50	2.9	1008 x 1008	39.5 x 39.5
1000 x 1000	39 x 39	.999	10.8	.50	2.9	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

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