

S-SERIES PERFORMANCE VENT SINGLE ELEMENT DOMED EXPLOSION VENT PANEL

DESCRIPTION

The S-Series Performance Vent is a single layer explosion vent panel designed for near-atmospheric applications. This basic, economic vent panel is designed, manufactured and supported to the highest Fike standards. Its unique design guarantees best in class lifespan in pulsating applications and an outstanding leak resistance.

All applicable requirements of European Standard EN14797 Explosion Venting Devices and NFPA68 Guide for Venting of Deflagrations are met with this design.

FEATURES AND BENEFITS

- Leak resistant
- Best in class cycle life proven through extensive testing
- Venting efficiency up to 100% according to EN14797
- Integrated hold down frame and gaskets
- No moving parts and essentially maintenance-free
- Non-fragmenting
- ATEX certified
- Optional rupture indicator - Can be supplied fitted, or separate for retro-fitting



APPROVALS:

- ATEX certified according to EN14797

SPECIFICATIONS

| | |
|-----------------------------------|--|
| Type | S-Series Performance Vent |
| Shapes | Rectangular |
| Materials of Construction | Wetted and non-wetted parts: 1.4301 (AISI type 304) Gaskets: EPDM sponge rubber with closed cell structure |
| Max. Operating Pressure | 50 mbarg at 22°C |
| Max. Vacuum Rating | -50 mbarg at 22°C |
| Burst Pressure / Tolerance | 100 ± 25 mbarg at 22°C |
| Ambient Temperature Range | -20°C up to 60°C |
| Explosion Limits | $K_{St} \leq 380 \text{ barg m.s}^{-1} - p_{red,max} \leq 0.6 \text{ barg}$ $K_G \leq 200 \text{ barg m.s}^{-1} - p_{red,max} \leq 0.45 \text{ barg}$ |

| | |
|---------------------------|--|
| Type | S-Series Rupture Indicator |
| Function | NC contact with 2-wire flying lead (2m) |
| ATEX certification | II 2G Ex ib IIC T6 IID Ex ib IIIC T 80°C IP65 |

STANDARD DIMENSIONS

Fike offers a range of S-Series Performance Vents in rectangular configurations with the following characteristics:

| Nominal Size in mm | Relief Area in m ² | External Dimensions (AxB) in mm |
|--------------------|-------------------------------|---------------------------------|
| 470 x 570 | 0.289 | 570 x 670 |
| 625 x 625 | 0.416 | 735 x 735 |
| 566 x 900 | 0.539 | 666 x 1000 |
| 900 x 900 | 0.846 | 1000 x 1000 |
| 1000 x 1000 | 1.040 | 1100 x 1100 |

