

THERMAL VENT

OsecoElfab's thermal vent features a composite design that reduces heat loss when used in high-temperature applications



Applications that are maintained at higher temperatures need to retain heat energy while still ensuring safety. Our thermal explosion vent combines a solid thermal insulator of low-density silica within a stainless steel panel construction. The integral insulation prevents loss of heat efficiency while maintaining safe, reliable explosion protection.

The thermal vent is suitable for temperatures up to 600°C, and is available in either a square, round or rectangular design with either flat or domed construction.

Depending on the process temperature and conditions, it may be possible to add Vent-Tel, our ATEX-approved burst detection system for explosion panels.

Sizes

- Internal dimensions (mm): 180 x 140 – 1140 x 655
- External dimensions (mm): 260 x 220 – 1220 x 735

Set Pressure Range

- 0.1 barg @ 15/30°C

Performance Tolerance

- +/- 25%

**Let us help you with all
your pressure relief questions.**

UK office | North Shields

+44 (0)191 293 1234 | uksales@osecoelfab.com

US office | Broken Arrow

+1 (918) 258 5626 | info@osecoelfab.com

osecoelfab.com

**REQUEST A QUOTE FOR
THE THERMAL VENT**





Size range	Internal dimensions (mm): 305x299 – 1140x655 External dimensions (mm): 385x379 – 1220x735
Vent area	0.08 m ² to 0.87 m ² (0.86 ft ² to 9.3 ft ²)
Burst pressure range	0.1 barg to 0.5 barg (0.7 psig to 7 psig)
Standard burst pressure offering	0.1 barg @ 15/30°C
Temperature range	-40°C to 70°C
Operating ratio	50%
Performance tolerance	25%
Vacuum capability	Back-pressure capable
Vent-Tel Detection	Yes (Optional but recommended)
Accessories	Integral frame
Shapes available	Rectangle
Materials available	Stainless steel as standard

Certifications

ATEX

Related Products

Sensors

Vent-Tel

Accessories

Frames
Gaskets

Explosion Vents

MV Panel Range
EB Explosion Vents
Hygienic Vent
MV-BE
CRVC
CRP
GLVF

Lift-Gard

Dimensions



INTERNAL DIMENSIONS (mm)	EXTERNAL DIMENSIONS (mm)	VENT AREA (m ²)
178 x 478	258 x 558	0.08
228 x 748	308 x 828	0.16
278 x 466	358 x 546	0.12
308 x 508	388 x 588	0.15
358 x 658	438 x 738	0.22

Lift-Gard

Vent Spacing

Dust Kst (bar.m/s)	Maximum spacing between vents (m)*
0-100	12
101-150	9
151-200	6
200+	4

*Assumes a Pstat of 0.1barg and a Pred of not less than 0.4barg