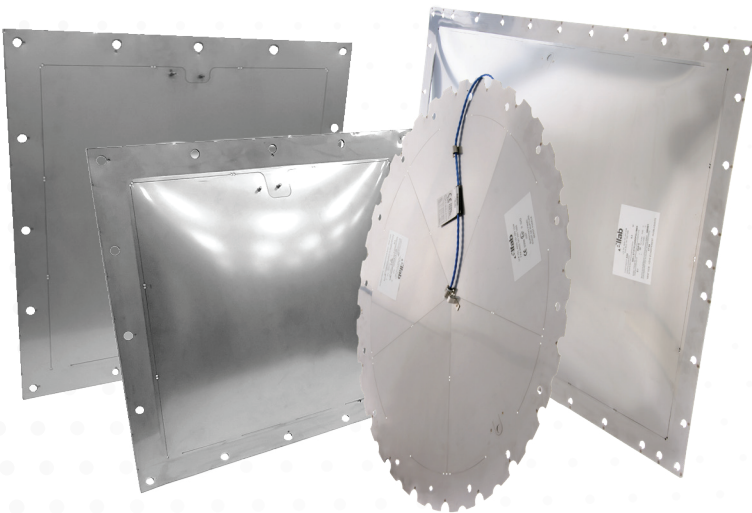


# EB EXPLOSION VENTS

MULTI-LAYERED AND SINGLE-SKINNED VENTS

**A full range of explosion vents manufactured at our North Shields facility. Includes single-skinned, multi-layered, flat and domed designs.**



Our multi-layered designs combine layers of stainless steel and fluoropolymer to create a high-performance explosion venting solution. Available as square, rectangular, round or trapezoid, with a wide range of bolt pattern configurations, the panels are non-fragmenting and offer fail-safe, rapid, full venting. They also provide a dust-tight seal with excellent corrosion resistance. The multi-layered domed design offers the highest operating ratio of all our explosion vents (80%), with enhanced operating performance under cyclic pressure, back pressure and vacuum conditions.

Our single-skinned, all-metal vents offer a cost-effective explosion protection option. The vents form a dust-tight seal, are non-fragmenting, and are resistant to abrasion, corrosion and moisture. The flat design is especially suitable where silo construction requires a low-profile solution. The domed design offers higher stability for applications where there is a medium level of vacuum.

## Sizes

- Custom sizes available

## Set Pressure Range

- Multi-layered: 0.05 barg to 0.1 barg @ 15/30°C
- Single-skinned: 0.1 barg @ 15/30°C

## Performance Tolerance

- +/- 25%

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

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**REQUEST A QUOTE FOR  
OUR EB VENTS**



# TECHNICAL SPECIFICATIONS: MULTI-LAYERED VENTS



All figures apply to both flat (XSF/XRF) and domed (XSD/XRD) vents unless otherwise specified.

Size range	Internal dimensions (mm): 180x140 to 1000x1000 External dimensions (mm): 260x220 to 1080x1080
Vent area	0.02 m <sup>2</sup> to 1.25 m <sup>2</sup> (0.22 ft <sup>2</sup> to 13.46 ft <sup>2</sup> )
Burst pressure range	0.05 barg to 0.49 barg
Standard burst pressure offering	0.05 barg to 0.1 barg @ 15/30°C*
Temperature range	-40°C to 200°C as standard**
Operating ratio	Flat: 60% Domed: 80%
Performance tolerance	+/- 25%
Vacuum capability	Flat: Limited Domed: Up to full vacuum
Torque dependent	No
Vent-Tel Detection	Optional
Optional accessories	Frame, Gasket
Shapes available	Flat: Square, Rectangle, Round, Trapezoid Domed: Square, Rectangle, Round
Materials available	Stainless Steel as standard

\*Other burst pressures available on request

\*\*Higher temperatures available on request

## Certifications

ATEX

## Related Products

### Sensors

Vent-Tel

### Accessories

Frames  
Gaskets

### Explosion Vents

MV Panel Range  
Thermal Vent  
Hygienic Vent  
MV-BE  
CRVC  
CRP  
Lift-Gard  
GLVF

# Multi-layered vents (XSF/XRF; XSD/XRD)

## Dimensions



INTERNAL DIMENSIONS (mm)	EXTERNAL DIMENSIONS (mm)	VENT AREA (m <sup>2</sup> )
180x140	260 x 220	0.02
305 X 299	385 x 379	0.09
395 x 240	455 x 300	0.09
395 x 395	455 x 455	0.15
410 x 410	490 x 490	0.16
420 x 420	500 x 500	0.17
440 x 340	520 x 420	0.14
457 X 305	537 x 385	0.13
490 x 490	570 x 570	0.23
590 x 490	670 x 570	0.28
610 x 247	690 x 327	0.14
610 x 305	690 x 385	0.18
610 x 458	690 x 530	0.27
610 x 470	690 x 550	0.28
610 x 510	690 x 590	0.30
610 x 610	690 x 690	0.36
620 X 390	700 x 470	0.23
645 x 645	725 x 725	0.40
653 x 653	733 x 733	0.41
655 X 375	735 x 455	0.24
655 x 655	735 x 735	0.42
668 x 525	748 x 605	0.35
670 x 670	750 x 750	0.44
762 x 457	842 x 530	0.34
762 x 610	842 x 690	0.45
770 x 770	850 x 850	0.58
890 x 457	970 x 537	0.39
914 x 610	994 x 690	0.54
920 x 586	1000 x 666	0.52
920 x 920	1000 x 1000	0.83
1000 x 1000	1080 x 1080	0.98
1004 x 629	1084 x 709	0.62
1020 x 1020	1100 x 1100	1.02
1020 x 520	1100 x 600	0.52
1118 x 610	1198 x 690	0.67
1118 x 915	1198 x 995	1.00
1130 x 1130	1210 x 1210	1.25
1140 x 655	1220 x 735	0.72

# TECHNICAL SPECIFICATIONS: SINGLE-SKINNED VENTS



All figures apply to both flat (SSF) and domed (SSD) vents unless otherwise specified.

Size range	Internal dimensions (mm): 305x299 to 1140x655 External dimensions (mm): 385x379 to 1220x735
Vent area	0.09 m <sup>2</sup> to 1.25 m <sup>2</sup> (0.97 ft <sup>2</sup> to 13.46 ft <sup>2</sup> )
Burst pressure range	0.05 barg to 0.49 barg
Standard burst pressure offering	0.1 barg @ 15/30°C*
Temperature range	-40°C to 80°C as standard**
Operating ratio	Flat: 50% Domed: 70%
Performance tolerance	+/- 25%
Vacuum capability	Flat: Limited Domed: Up to 75% of minimum burst pressure
Torque dependent	No
Vent-Tel Detection	Optional
Optional accessories	Frame, Gasket
Shapes available	Square, Rectangle
Materials available	Stainless Steel as standard

\*Other burst pressures available on request

\*\*Higher temperatures available on request

## Certifications

ATEX

## Related Products

### Sensors

Vent-Tel

### Accessories

Frames

Gaskets

### Explosion Vents

MV Panel Range

Thermal Vent

Hygienic Vent

MV-BE

CRVC

CRP

Lift-Gard

GLVF

# Single-skinned vents (SSF/SSD)

## Dimensions



INTERNAL DIMENSIONS (mm)	EXTERNAL DIMENSIONS (mm)	VENT AREA (m <sup>2</sup> )
305 x 299	385 x 379	0.09
395 x 240	455 x 300	0.09
410 x 410	490 x 490	0.16
440 x 340	520 x 420	0.14
457 X 305	537 x 385	0.13
490 x 490	570 x 570	0.23
590 x 490	670 x 570	0.28
610 x 247	690 x 327	0.14
610 x 305	690 x 385	0.18
610 x 458	690 x 530	0.27
610 x 470	690 x 550	0.28
610 x 510	690 x 590	0.30
610 x 610	690 x 690	0.36
620 X 390	700 x 470	0.23
645 x 645	725 x 725	0.40
653 x 653	733 x 733	0.41
655 X 375	735 x 455	0.24
655 x 655	735 x 735	0.42
668 x 525	748 x 605	0.35
762 x 457	842 x 530	0.34
762 x 610	842 x 690	0.45
770 x 770	850 x 850	0.58
890 x 457	970 x 537	0.39
914 x 610	994 x 690	0.54
920 x 586	1000 x 666	0.52
920 x 920	1000 x 1000	0.83
1000 x 1000	1080 x 1080	0.98
1004 x 629	1084 x 709	0.62
1020 x 1020	1100 x 1100	1.02
1020 x 520	1100 x 600	0.52
1118 x 610	1198 x 690	0.67
1118 x 915	1198 x 995	1.00
1130 x 1130	1210 x 1210	1.25
1140 x 655	1220 x 735	0.72