

# Flat Explosion Panels EV-VL Vacuum resistance : 0.7 psi / 20" w.g.

## APPLICATIONS

EcoMAXX®/VigilEX EV-VL explosion relief panels are suitable for all applications with low vacuum operating pressures. Typical applications include dust collectors, conveyors, cyclones, elevators, and silos.

EcoMAXX®/VigilEX EV-VL explosion vents are specifically designed to satisfy low pressure explosion venting requirements. They are designed with an integral gasketed flange that covers the breaking points, ensuring strong mechanical durability. A wide variety of standard and custom sizes and bolt patterns are available.

Standard burst pressure is **1.45 psi / 0.1 bar**. Application specific burst pressures between **1.45 psi up to 7 psi** are available for special orders.



### CERTIFICATIONS & STANDARDS

Ex II GD

EN 14491 - EN 14994 - EN 14797 - EN 1127.1

EU Certificate : INERIS 15ATEX0001X

NFPA 68 - NFPA 69

EN 16447

Production quality assurance notification :  
INERIS 08ATEXQ406



### STANDARD FEATURES

- Single Flat Panel **304 stainless steel**
- Full frame **black EPDM gasket** -40°F +176°F (-40°C +80°C)
- Integral **304L stainless steel flange**

### OPTIONAL FEATURES

- **Stainless steel 316L construction**
- Full frame **white silicone FDA gasket** -76°F +392°F (-60°C +200 °C)
- **High temperature graphite gasket** -328°F +932°F (-200°C +500°C)
- **Integral 316L stainless steel flange with gasket**

### ACCESSORIES FOR EV-VL

- Burst Sensor
- Thermal insulation
- Weather protection
- Duct discharge compatible
- Vacuum safety grid



PRODUCT CODE: 51501

## DIMENSIONS

INTERNAL DIMENSION		EXTERNAL DIMENSION		AREA	
Inches	mm.	Inches	mm.	ft <sup>2</sup>	m <sup>2</sup>
4 x 11	110 x 290	7 x 14	174 x 354	0.312	0.029
6 x 24	150 x 600	9 x 27	230 x 680	0.953	0.088
* 7 x 19	<b>170 x 470</b>	<b>10 x 22</b>	<b>250 x 550</b>	<b>0.845</b>	<b>0.078</b>
9 x 17	220 x 420	12 x 20	300 x 500	0.979	0.091
9 x 9	229 x 229	12 x 12	310 x 310	0.554	0.051
9 x 12	229 x 305	12 x 15	310 x 386	0.743	0.069
10 x 24	247 x 610	13 x 27	327 x 690	1.598	0.148
* 11 x 18	<b>270 x 458</b>	<b>14 x 21</b>	<b>350 x 538</b>	<b>1.313</b>	<b>0.122</b>
* 12 x 20	<b>300 x 500</b>	<b>15 x 23</b>	<b>380 x 580</b>	<b>1.593</b>	<b>0.148</b>
12 x 24	300 x 600	14 x 26	366 x 666	1.727	0.160
* 12 x 18	<b>305 x 457</b>	<b>15 x 21</b>	<b>386 x 538</b>	<b>1.491</b>	<b>0.138</b>
* 12 x 24	<b>305 x 610</b>	<b>15 x 27</b>	<b>386 x 690</b>	<b>1.986</b>	<b>0.184</b>
12 x 30	319 x 765	16 x 33	405 x 850	2.669	0.248
13 x 15	340 x 385	16 x 18	404 x 449	1.345	0.125
13 x 17	340 x 440	16 x 20	404 x 504	1.539	0.143
14 x 26	350 x 650	17 x 29	430 x 730	2.427	0.225
15 x 25	375 x 655	18 x 29	460 x 740	2.632	0.244
15 x 24	390 x 620	19 x 28	470 x 700	2.578	0.239
16 x 16	410 x 410	19 x 19	480 x 480	1.787	0.166
16 x 20	420 x 520	20 x 20	500 x 600	2.330	0.216
16 x 36	420 x 920	20 x 39	500 x 1000	4.128	0.383
* 18 x 35	<b>457 x 890</b>	<b>21 x 38</b>	<b>537 x 970</b>	<b>4.348</b>	<b>0.404</b>
18 x 24	470 x 610	22 x 27	550 x 690	3.062	0.284
19 x 27	480 x 680	23 x 31	580 x 780	3.509	0.326
19 x 19	490 x 490	22 x 22	570 x 570	2.562	0.238
* 19 x 23	<b>490 x 590</b>	<b>22 x 26</b>	<b>570 x 670</b>	<b>3.084</b>	<b>0.286</b>

INTERNAL DIMENSION		EXTERNAL DIMENSION		AREA	
Inches	mm.	Inches	mm.	ft <sup>2</sup>	m <sup>2</sup>
20 x 20	520 x 520	24 x 24	600 x 600	2.884	0.268
20 x 24	520 x 620	24 x 28	600 x 700	3.444	0.320
20 x 40	520 x 1020	24 x 39	600 x 1000	5.672	0.527
23 x 46	580 x 1180	26 x 50	670 x 1270	7.324	0.680
* 23 x 36	<b>586 x 920</b>	<b>26 x 39</b>	<b>666 x 1000</b>	<b>5.769</b>	<b>0.536</b>
* 24 x 24	<b>610 x 610</b>	<b>27 x 27</b>	<b>690 x 690</b>	<b>3.977</b>	<b>0.369</b>
24 x 36	610 x 920	27 x 39	690 x 1000	6.230	0.561
24 x 44	610 x 1118	27 x 47	690 x 1198	7.303	0.678
25 x 25	645 x 645	29 x 29	740 x 740	4.445	0.413
25 x 44	645 x 1130	29 x 48	735 x 1220	7.803	0.725
26 x 26	653 x 653	29 x 29	740 x 740	4.585	0.426
27 x 27	680 x 680	31 x 31	780 x 780	4.946	0.459
28 x 40	720 x 1020	31 x 43	800 x 1100	7.857	0.730
30 x 31	780 x 780	35 x 35	880 x 880	6.544	0.608
30 x 46	780 x 1180	35 x 50	880 x 1280	9.859	0.916
31 x 40	800 x 1000	35 x 43	890 x 1090	8.567	0.796
35 x 35	880 x 880	39 x 39	980 x 980	8.287	0.770
* 36 x 44	<b>915 x 1118</b>	<b>39 x 47</b>	<b>996 x 1198</b>	<b>10.978</b>	<b>1.020</b>
* 36 x 36	<b>920 x 920</b>	<b>39 x 39</b>	<b>1000 x 1000</b>	<b>9.068</b>	<b>0.842</b>
39 x 39	980 x 980	43 x 43	1080 x 1080	10.332	0.960
40 x 40	1000 x 1000	42 x 42	1056 x 1056	10.418	0.968
40 x 40	1020 x 1020	43 x 43	1100 x 1100	11.150	1.036
42 x 42	1080 x 1080	46 x 46	1180 x 1180	12.485	1.160
* 44 x 44	<b>1130 x 1130</b>	<b>48 x 48</b>	<b>1220 x 1220</b>	<b>13.690</b>	<b>1.272</b>
46 x 46	1180 x 1180	50 x 50	1280 x 1280	14.934	1.387
40 x 79	1000 x 2000	43 x 82	1080 x 2080	21.461	1.994

Sizes are accurate in mm and rounded to the closest whole number in inches

\* Sizes permanently in stock

Other sizes available

## ROUND DIMENSIONS

INTERNAL DIMENSION		EXTERNAL DIMENSION		AREA	
Inches	mm.	Inches	mm.	ft <sup>2</sup>	m <sup>2</sup>
8	Ø 200	11	Ø 268	0.334	0.031
10	Ø 250	13	Ø 341	0.517	0.048
12	Ø 300	15	Ø 390	0.748	0.069
14	Ø 350	17	Ø 424	1.001	0.093
16	Ø 400	19	Ø 473	1.324	0.123
18	Ø 450	21	Ø 545	1.701	0.158
20	Ø 500	23	Ø 574	2.083	0.193

INTERNAL DIMENSION		EXTERNAL DIMENSION		AREA	
Inches	mm.	Inches	mm.	ft <sup>2</sup>	m <sup>2</sup>
* 24	<b>Ø 610</b>	27	Ø 676	3.003	0.279
28	Ø 700	31	Ø 790	4.122	0.383
* 30	<b>Ø 762</b>	33	Ø 842	4.736	0.440
31	Ø 800	35	Ø 880	5.381	0.500
* 36	<b>Ø 914</b>	39	Ø 990	7.065	0.656
39	Ø 990	42	Ø 1070	8.290	0.770

Sizes are accurate in mm and rounded to the closest whole number in inches

\* Sizes permanently in stock

Other sizes available

Custom sizes and shapes available