

# Domed Explosion Vent Panel EV-VD

Vacuum resistance : 3 psi / 83" w.g.

## APPLICATIONS

The **Domed Explosion Vent Panel EV-VD** is specifically designed for high negative pressure applications and installations where high psi pulse cleaning mechanisms could cause metal fatigue over time. The dome design is optimal for Hi-Vac filter systems where explosion relief venting is required. Typical applications included dust collector filters, cyclones, and high pressure vessels.

The **Domed Explosion Vent Panel EV-VD** is pressure tested and certified in compliance with a variety of test standards. It is ideal for **OEM** and retrofit applications. It is easy to install with premium gaskets and integral flanges.

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

Production quality assurance notification :  
INERIS 08ATEX0406



### STANDARD FEATURES

- Single domed 304 stainless steel
- Full frame Gasket, black EPDM rated -40 F+176 F (-40 C+80 C)
- Integral 304L stainless steel flange with gasket

### 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-VD

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

## DIMENSIONS

INTERNAL DIMENSION		EXTERNAL DIMENSION		AREA	
Inches	mm.	Inches	mm.	ft <sup>2</sup>	m <sup>2</sup>
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>
8 x 11	205 x 290	11 X 15	285 x 370	0.624	0.058
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 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>0.185</b>
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	<b>350 x 650</b>	<b>17 X 29</b>	<b>430 x 730</b>	<b>2.427</b>	<b>0.226</b>
15 x 26	375 x 655	18 X 29	460 x 740	2.632	0.244
16 x 16	410 x 410	19 X 19	480 x 480	1.787	0.166
20 x 28	457 x 890	21 X 38	537 x 970	4.348	0.404

INTERNAL DIMENSION		EXTERNAL DIMENSION		AREA	
Inches	mm.	Inches	mm.	ft <sup>2</sup>	m <sup>2</sup>
18 x 24	470 x 610	22 X 27	550 x 690	3.062	0.284
18 x 35	470 x 880	22 x 39	550 x 1000	4.595	0.413
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>0.287</b>
21 x 26	525 x 668	25 X 30	630 x 765	3.659	0.340
* 23 x 36	<b>586 x 920</b>	<b>26 X 39</b>	<b>666 x 1000</b>	<b>5.770</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>0.370</b>
24 x 36	610 x 920	27 x 30	690 x 765	6.040	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	735 x 735	4.445	0.413
25 x 44	645 x 1130	29 X 48	735 x 1220	12.547	0.413
26 x 26	653 x 653	29 X 29	740 x 740	4.585	0.426
* 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>1.842</b>
36 x 54	920 x 1380	39 X 57	1000 x 1460	13.368	1.242
39 x 39	980 x 980	43 X 43	1080 x 1080	10.332	1.960
40 x 40	1020 x 1020	43 X 43	1100 x 1100	11.150	1.036

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