

High Vacuum Domed Explosion Vent Panel EV-VD-HV

Vacuum resistance : 3-9 psi / 83-250" w.g.

APPLICATIONS

The **High Vacuum Domed Explosion Vent Panel EV-VD-HV** is specifically engineered to be an ideal solution for applications where negative operating pressures exceed **3 psi** or operational metal fatigue is anticipated. Some high energy pulse-jet filter cleaning mechanisms, and systems operating under extreme high pressure, have been known to significantly shorten the life of standard explosion panels.

The **High Vacuum Domed Explosion Vent Panel EV-VD-HV** is pressure tested and certified under a variety of test standards. It is ideal for **OEM** and retrofit extreme duty 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 08ATEXQ406



STANDARD FEATURES

- Mechanically Reinforced single dome 304L stainless steel
- Full frame Gasket, **black EPDM** rated -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-VD HV

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

DIMENSIONS

INTERNAL DIMENSION		EXTERNAL DIMENSION		AREA	
Inches	mm.	Inches	mm.	ft ²	m ²
6 x 24	150 x 600	9 X 27	230 x 680	0.953	0.088
* 7 x 19	170 x 470	10 x 22	250 x 550	0.845	0.078
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	270 x 458	14 X 21	350 x 538	1.313	0.122
* 12 x 20	300 x 500	15 X 23	380 x 580	1.593	0.148
12 x 18	305 x 457	15 X 21	386 x 538	1.491	0.138
* 12 x 24	305 x 610	15 X 27	386 x 690	1.986	0.185
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	0.226

INTERNAL DIMENSION		EXTERNAL DIMENSION		AREA	
Inches	mm.	Inches	mm.	ft ²	m ²
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
18 x 24	470 x 610	22 X 27	550 x 690	3.062	0.284
19 x 19	490 x 490	22 X 22	570 x 570	2.562	0.238
* 19 x 23	490 x 590	22 X 26	570 x 670	3.084	0.287
21 x 26	525 x 668	25 X 30	630 x 765	3.659	0.340
* 23 x 36	586 x 920	26 X 39	666 x 1000	5.770	0.536
* 24 x 24	610 x 610	27 X 27	690 x 690	3.977	0.370
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

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

* Sizes permanently in stock

Other sizes available

DIMENSIONS : ROUND

INTERNAL DIMENSION		EXTERNAL DIMENSION		AREA	
Inches	mm.	Inches	mm.	ft ²	m ²
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 ²	m ²
24	Ø 600	27	Ø 676	3.003	0.279
28	Ø 700	31	Ø 790	4.122	0.383
30	Ø 750	33	Ø 842	4.736	0.440
31	Ø 800	35	Ø 880	5.381	0.500
36	Ø 914	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

Other sizes available

Custom sizes and shapes available