

Domed Explosion Vent Panel VD

Vacuum level: -3psi/ 83" w.g.

APPLICATIONS

The **Domed Explosion Vent Panel 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 high vacuum filter systems where explosion relief venting is required. Typical applications include dust collector filters, cyclones, and high pressure vessels.

The **Domed Explosion Vent Panel 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 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 Compliant

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 VD

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

RECTANGULAR & SQUARE DIMENSIONS

INTERNAL DIMENSION		EXTERNAL DIMENSION		AREA	
Inches	mm.	Inches	mm.	ft ²	m ²
6x24	150x600	9x27	230x680	0.953	0.089
6x19	170x470	10x22	250x550	0.845	0.079
8x11	205x290	11x15	285x370	0.624	0.058
9x17	220x420	12x20	300x500	0.980	0.091
9x9	229x229	12x12	310x310	0.554	0.052
9x12	229x305	12x15	310x386	0.743	0.069
10x24	247x610	13x27	327x690	1.604	0.149
11x18	270x458	14x21	350x538	1.313	0.122
12x20	300x500	15x23	380x580	1.593	0.148
12x18	305x457	15x21	386x538	1.496	0.139
12x24	305x610	15x28	386x690	1.991	0.185
13x15	340x385	16x18	404x449	1.345	0.125
13x17	340x440	16x20	404x504	1.539	0.143
14x26	350x350	17x29	430x730	2.433	0.226
15x26	375x655	18x29	460x740	2.637	0.245
16x16	410x410	19x19	480x480	1.787	0.166

INTERNAL DIMENSION		EXTERNAL DIMENSION		AREA	
Inches	mm.	Inches	mm.	ft ²	m ²
20x28	457x890	21x38	537x970	4.349	0.404
18x24	470x610	22x27	550x690	3.062	0.285
19x19	490x490	22x22	570x570	2.562	0.238
19x23	490x590	22x26	570x670	3.084	0.287
21x26	525x668	25x30	630x765	3.660	0.340
23x36	586x920	26x39	666x1000	5.769	0.536
24x24	610x610	27x27	690x690	3.977	0.370
24x44	610x1118	27x47	690x1198	7.303	0.679
25x25	645x645	29x29	735x735	4.445	0.413
25x44	645x1130	29x44	735x1220	7.804	0.725
26x26	653x653	29x29	740x740	4.585	0.426
36x44	915x1118	39x47	996x1198	10.979	1.020
36x36	920x920	39x39	1000x1000	9.069	0.843
36x54	920x1380	39x57	1000x1460	13.369	1.242
39x39	980x980	43x43	1080x1080	10.333	0.960
40x40	1020x1020	43x43	1100x1100	11.151	1.036

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

Other sizes available
Subject to longer lead times

ROUND DIMENSIONS

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
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 900	39	Ø 990	7.065	0.656
39	Ø 980	42	Ø 1070	8.290	0.770
47	Ø 1200	51	Ø 1290	12.665	1.177

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

Other sizes available
Custom sizes and shapes available
Subject to longer lead times