

High Vacuum Domed Explosion Vent Panel VD-HV

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

APPLICATIONS

The **High Vacuum Domed Explosion Vent Panel 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 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.



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

CERTIFICATIONS & STANDARDS

Ex II GD

EN 14491 - EN 14994 - EN 14797 - EN 1127.1

EU Certificate : INERIS 15ATEX0001X

NFPA 68 - NFPA 69 Compliant

Production quality assurance notification :

INERIS 08ATEXQ406



ACCESSORIES FOR VD-HV

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

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
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