

# High Vacuum Domed Explosion Vent Panel EV-VDHV

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

## APPLICATIONS

The **High Vacuum Domed Explosion Vent Panel EV-VDHV** 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-VDHV** 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 Compliant

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 VD-HV

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

## DIMENSIONS

INTERNAL DIMENSION		EXTERNAL DIMENSION		BOLTS	MAX VACUUM		AREA		UNIT WEIGHT	
Inches	mm.	Inches	mm.		qty	in.WC	mbar	ft <sup>2</sup>	cm <sup>2</sup>	lbs
<b>7 x 19</b>	170 x 470	<b>10 x 22</b>	250 x 550	<b>16</b>	<b>-201</b>	<b>-500</b>	<b>0.84</b>	785	<b>7.5</b>	3.4
<b>8 x 11</b>	205 x 290	<b>11 x 15</b>	285 x 370	<b>14</b>	<b>-201</b>	<b>-500</b>	<b>0.62</b>	580	<b>2.43</b>	1.1
<b>9 x 17</b>	220 x 420	<b>12 x 20</b>	300 x 500	<b>16</b>	<b>-201</b>	<b>-500</b>	<b>0.98</b>	910	<b>5.29</b>	2.4
<b>9 x 9</b>	229 x 229	<b>12 x 12</b>	310 x 310	<b>12</b>	<b>-121</b>	<b>-300</b>	<b>0.55</b>	515	<b>1.81</b>	0.82
<b>9 x 12</b>	229 x 305	<b>12 x 15</b>	310 x 386	<b>14</b>	<b>-201</b>	<b>-500</b>	<b>0.74</b>	690	<b>4.08</b>	1.85
<b>10 x 24</b>	247 x 610	<b>13 x 27</b>	327 x 690	<b>20</b>	<b>-201</b>	<b>-500</b>	<b>1.6</b>	1485	<b>5.95</b>	2.7
<b>11 x 18</b>	270 x 458	<b>14 x 21</b>	350 x 538	<b>18</b>	<b>-201</b>	<b>-500</b>	<b>1.31</b>	1220	<b>7.94</b>	3.6
<b>12 x 20</b>	300 x 500	<b>15 x 23</b>	380 x 580	<b>20</b>	<b>-201</b>	<b>-500</b>	<b>1.59</b>	1480	<b>9.7</b>	4.4
<b>12 x 18</b>	305 x 457	<b>15 x 21</b>	386 x 538	<b>18</b>	<b>-201</b>	<b>-500</b>	<b>1.49</b>	1385	<b>7.43</b>	3.37
<b>12 x 24</b>	305 x 610	<b>15 x 27</b>	386 x 690	<b>22</b>	<b>-201</b>	<b>-500</b>	<b>1.99</b>	1845	<b>9.7</b>	4.4
<b>13 x 17</b>	340 x 440	<b>16 x 20</b>	404 x 504	<b>16</b>	<b>-201</b>	<b>-500</b>	<b>1.54</b>	1430	<b>7.65</b>	3.47
<b>14 x 26</b>	350 x 650	<b>17 x 29</b>	430 x 730	<b>22</b>	<b>-201</b>	<b>-500</b>	<b>2.43</b>	2255	<b>15.1</b>	6.85
<b>15 x 26</b>	375 x 655	<b>18 x 29</b>	460 x 740	<b>16</b>	<b>-193</b>	<b>-480</b>	<b>2.63</b>	2445	<b>11.9</b>	5.4
<b>16 x 16</b>	410 x 410	<b>19 x 19</b>	480 x 480	<b>12</b>	<b>-201</b>	<b>-500</b>	<b>1.79</b>	1660	<b>7.28</b>	3.3
<b>19 x 19</b>	490 x 490	<b>22 x 22</b>	570 x 570	<b>24</b>	<b>-201</b>	<b>-500</b>	<b>2.56</b>	2380	<b>15.72</b>	7.13
<b>19 x 23</b>	490x 590	<b>22 x 26</b>	570 x 670	<b>26</b>	<b>-201</b>	<b>-500</b>	<b>3.08</b>	2865	<b>12.13</b>	5.5
<b>19 x 24</b>	470 x 610	<b>22 x 27</b>	550 x 690	<b>24</b>	<b>-161</b>	<b>-400</b>	<b>3.06</b>	2845	<b>12.13</b>	5.5
<b>18 x 35</b>	457 x 890	<b>21 x 38</b>	537 x 970	<b>28</b>	<b>-201</b>	<b>-500</b>	<b>4.35</b>	4040	<b>18.52</b>	8.4
<b>23 x 36</b>	586 x 920	<b>26 x 39</b>	666 x 1000	<b>34</b>	<b>-121</b>	<b>-300</b>	<b>5.77</b>	5360	<b>27.12</b>	12.3
<b>23 x 36</b>	586 x 920	<b>26 x 39</b>	666 x 1000	<b>34</b>	<b>-201</b>	<b>-500</b>	<b>5.77</b>	5360	<b>30.42</b>	13.8
<b>24 x 24</b>	610 x 610	<b>27 x 27</b>	690 x 690	<b>24</b>	<b>-201</b>	<b>-500</b>	<b>3.98</b>	3695	<b>21.38</b>	9.7
<b>26 x 26</b>	653 x 653	<b>29 x 29</b>	735 x 735	<b>28</b>	<b>-201</b>	<b>-500</b>	<b>4.59</b>	4260	<b>19.18</b>	8.7

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