

VIGILEX®

SAFETY PROTECTION By **STIF**

EXPLOSION PROTECTION



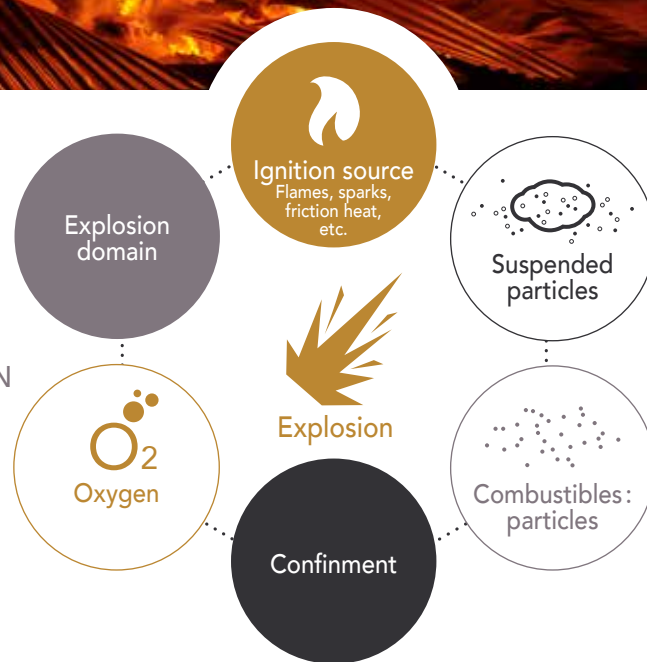
STIF

components for your success

English



THE SIX REQUIREMENTS FOR A DUST EXPLOSION



Explosion venting is one of the most common and effective forms of explosion protection. Relieving the overpressure from a potential industrial explosion and providing a planned pathway for the expanding gases to escape.

WHAT IS A DUST EXPLOSION ?

- It begins with the ignition of a fuel which burns instantaneously
- An explosion produces and release a large cloud of gas or dust
- An explosion does not require a flame
- A vessel can bursts from increased internal pressure, and then it's called an explosion

WHAT IS AN EXPLOSION VENTING ?

- A designed weak point in a pressure system
- Limit the explosion overpressure by releasing unburned mixture and products of combustion
- Panels do not prevent an explosion they prevent the vessel from over pressure by allowing us to control the maximum pressure
- Definition: A non-reclosing pressure relief device to discharge outside the explosion energy
- designed to fail at a pre-determined pressure

VIGILEX explosion protection devices are designed by the **STIF** company, who are specialists in the manufacture of components for the bulk handling industry.

Established in 1984 the S.T.I.F. Company has earned a solid international reputation by exporting to more than 60 countries.

The 10000m² production facility and global headquarters is based in the west of France near ANGERS, 80km from the port of NANTES-ST NAZAIRE.

Following the successful launch of the explosion vent panels several years ago the company introduced the VIGILEX VQ Flame Arrestor. This new explosion protection device is designed to protect personnel and equipment from the effect of an explosion within a plant environment also to replace the costly generally used ductwork solution that conveys the explosion outside the building. The VIGILEX VQ is the first Flame Arrestor in the market to be approved following the new standard EN16009 (Flameless explosion venting devices).

With technical expertise in dust explosion STIF provides a comprehensive service to offer help and advice on your particular project.

Our website www.vigilex.eu is an open source platform which allows you to download drawings of each panel, a questionnaire form is also available with all of the information required to define the vent area to protect your equipment (Filters, Dust Collectors, Silos, Elevators).

From our modern in house test facility we offer pressure test certificates along with certificates of conformity following the latest standards.

Our staff pride themselves on offering you, the customer a first class product and service.

CERTIFICATIONS

Ex II GD

EN 14491-2012/ EN 14994-2007/ EN 14797-2007/ EN 1127.1-2011
EN 16009-2011

EU Certificate : INERIS 15ATEX0001X

EU Certificate : INERIS 14ATEX0049X

Production quality assurance notification : INERIS 08ATEXQ406



CERTIFICATIONS, CALCULATION & **TESTS**

The **VIGILEX explosion vent panels** and **flame arrestors** are ATEX approved products certified by the French notified body INERIS.



STIF is the only French company to have EU certificate for this kind of products. STIF is also certified ISO 9001 AFAQ.

In the event of an explosion the vent panels are designed to evacuate the pressure in order to protect both the workforce and surrounding facilities. The Vigilex explosion vent panels offer a simple and efficient protection system which is designed to resist vacuum under cycling conditions and can be used in silos, cyclones, filters units and vessels.



CALCULATION

We determine for you the surface areas of the vents to be placed in your installations to be protected. Thanks to the main specific information related to the characteristics of your installations (KST, Predmax, Pmax, your installations size, etc.), which you will indicate to us. We can calculate the safety area adapted to your needs and conforming to the standards EN 14491, EN 14994, VDI3673 and NFPA 68. And, backed by our experienced technical department, we can offer a comprehensive service to guide you in your choices and optimize your investments.



VENT PANEL EXPLOSION TEST

STIF delivers conformity declarations by testing each explosion vent panel in its own test room.



DIRECTIVE: 2014/34/UE



QUALITY CONTROL

We test the vent panels in our factory according to EN 14797. These panels are manufactured under the EU examination certificate type INERIS 15ATEX0001X, 14ATEX0049X and the quality management system of the company is certified by the EU quality certification INERIS 08ATEXQ406.

Our range of products are supplied with a certificate of conformity complete with burst test results along with installation guidelines.

CERTIFICATIONS

EXPLOSION VENT PANEL STANDARD

- Ex II GD
- EN 14491 / EN 14994 / EN 14797 / EN 1127.1
- EU Type examination certificate: INERIS 15ATEX0001X
- Production quality assurance notification: INERIS 08ATEXQ406

CERTIFICATIONS

FLAMELESS DEVICES STANDARD

- Ex II GD / Ex II 2 D
- EN 16009
- EU type examination certificate: INERIS 14ATEX0049X
- Production quality assurance notification: INERIS 08ATEXQ406

CERTIFIED FOR :

- Organic dust
- Fiber dust
- Metal dust
- Gas

SUMMARY



Explosion Vent Panel

| | | |
|---------------|------------------------------------|----|
| VIGILEX VL | Single flat | 8 |
| VIGILEX VL-R | Single curved | 10 |
| VIGILEX VL-S | Single flat simple | 12 |
| VIGILEX EHEDG | Hygienic applications | 14 |
| VIGILEX VD | Single domed | 16 |
| VIGILEX VD-HV | Single domed high vacuum resistant | 18 |



Flameless Devices

| | | |
|--------------|------------------------------|----|
| VIGILEX VQ | Flameless venting | 20 |
| VIGILEX VQ R | Curved flameless venting | 22 |
| VIGILEX VQ | Metal dust flameless venting | 23 |

NEW

OUR DEVICES



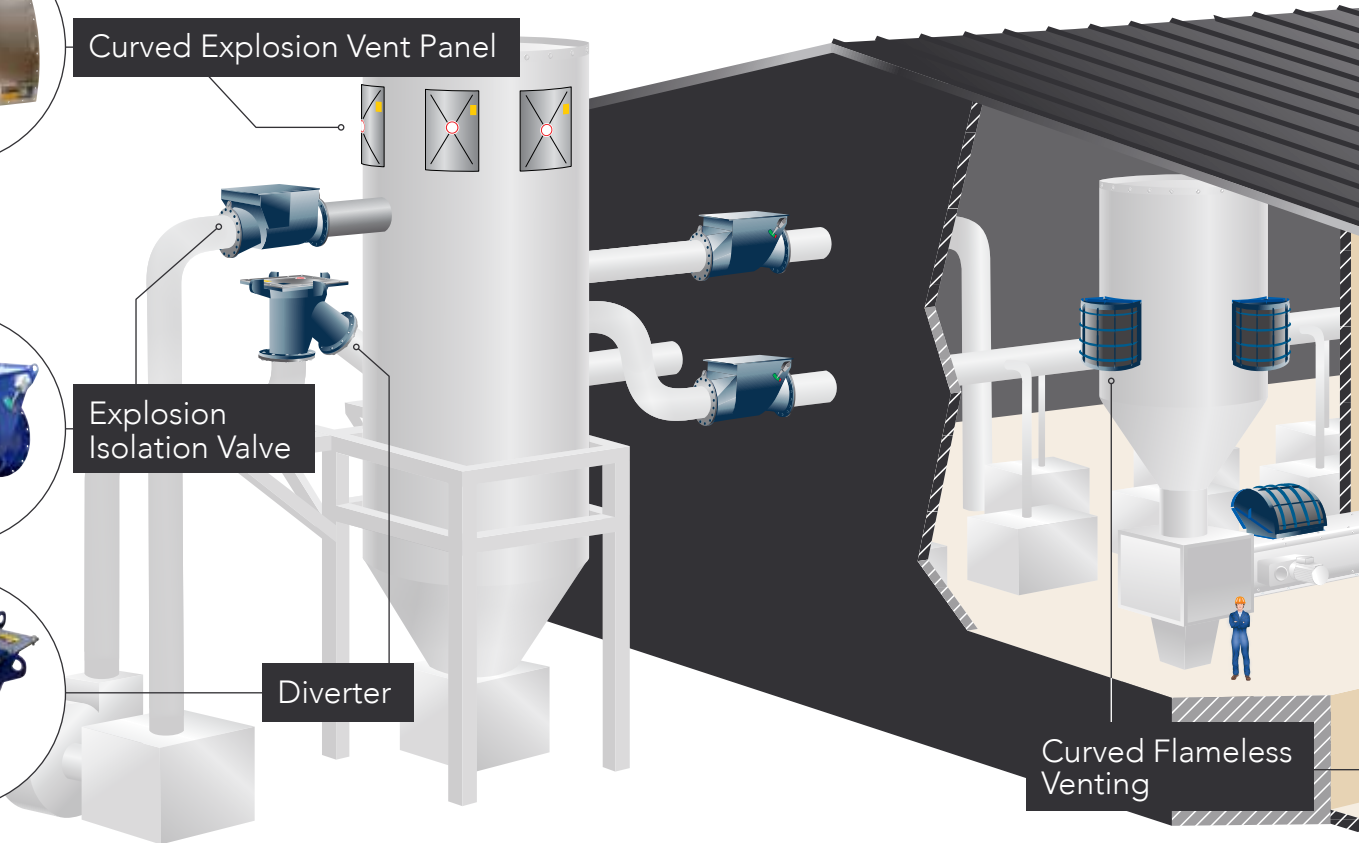
Curved Explosion Vent Panel



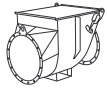
Explosion Isolation Valve



Diverter



Curved Flameless Venting



Explosion Isolation Valve

VIGIFLAP

Explosion Isolation Valve

NEW

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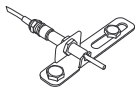
Diverter

V-DEX

Diverter

NEW

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Accessories

BURST SENSOR

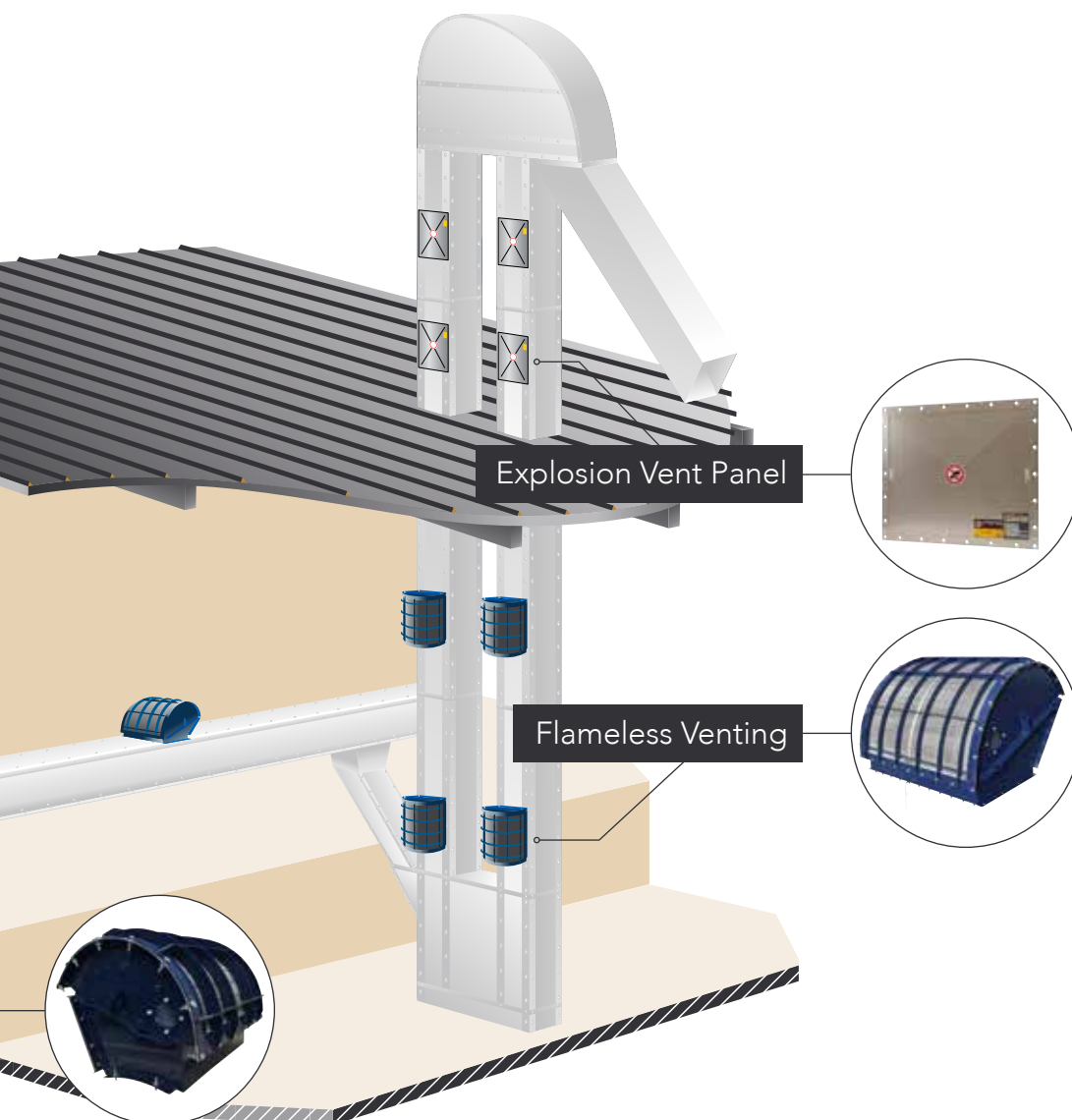
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OPTIONS

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www.vigilex.eu

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VIGILEXVL® VACUUM RESISTANCE : 50 mbar

APPLICATIONS

The VIGILEX VL is suitable for all applications with low vacuum or working pressure (up to 50% of static burst pressure) such as elevators, conveyors, silos, cyclones.

With an integral flange ready to install, covering the breaking point, the VIGILEX VL ensures a strong mechanical durability. The attached wide gasket provides the VIGILEX VL a perfect dustproof seal.

The standard burst pressure is 0,1 bar (max.0,5 bar) at 22° C (72° F).

STANDARD CHARACTERISTICS

- Design : single flat sst 304 L
- Fully frame black EPDM gasket (-40°+80°C)
- Integrated stainless steel flange



**Fully frame
black EPDM gasket (-40°+80°C)**

OPTIONS

- Panel material stainless steel 316L
- Fully frame white silicon FDA gasket (-60°+200°C)
- High temperature graphite gasket (-200°+500°C)
- Integrated stainless steel 316L flange

CERTIFICATIONS

Ex II GD

EN 14491
EN 14994
EN 14797
EN 1127.1

EU Certificate: INERIS 15ATEX0001X

Production quality assurance notification :
INERIS 08ATEXQ406



ACCESSORIES for VIGILEX VL (See page 24)

- Burst Sensor
- Weather protection vigilex WI
- Vacuum safety grid
- Thermal insulation vigilex TI
- Duct discharge

Explosion vent panel dimensions: VIGILEX VL®

RECTANGULAR & SQUARE

| INTERNAL DIMENSION | | EXTERNAL DIMENSION | AREA |
|--------------------|---------|--------------------|---------------------|
| (mm) | Inches | (mm) | (cm ²) |
| 110 x 290 | 4 x 11 | 174 x 354 | 290 |
| 150 x 600 | 6 x 24 | 230 x 680 | 885 |
| 170 x 470 | 7 x 19 | 250 x 550 | 785 |
| 220 x 420 | 9 x 17 | 300 x 500 | 910 |
| 229 x 229 | 9 x 9 | 310 x 310 | 515 |
| 229 x 305 | 9 x 12 | 310 x 386 | 690 |
| 247 x 610 | 10 x 24 | 327 x 690 | 1485 |
| 270 x 458 | 11 x 18 | 350 x 538 | 1220 |
| 300 x 500 | 12 x 20 | 380 x 580 | 1480 |
| 300 x 600 | 12 x 24 | 366 x 666 | 1605 |
| 305 x 457 | 12 x 18 | 386 x 538 | 1385 |
| 305 x 610 | 12 x 24 | 386 x 690 | 1845 |
| 319 x 765 | 12 x 30 | 405 x 850 | 2480 |
| 340 x 385 | 13 x 15 | 404 x 449 | 1250 |
| 340 x 440 | 13 x 17 | 404 x 504 | 1430 |
| 350 x 650 | 14 x 26 | 430 x 730 | 2255 |
| 375 x 655 | 15 x 25 | 460 x 740 | 2445 |
| 390 x 620 | 15 x 24 | 470 x 700 | 2395 |
| 410 x 410 | 16 x 16 | 480 x 480 | 1660 |
| 420 x 520 | 16 x 20 | 500 x 600 | 2165 |
| 420 x 920 | 16 x 36 | 500 x 1000 | 3835 |
| 457 x 890 | 20 x 28 | 537 x 970 | 4040 |
| 470 x 610 | 18 x 24 | 550 x 690 | 2845 |
| 480 x 680 | 19 x 27 | 580 x 780 | 3260 |
| 490 x 490 | 19 x 19 | 570 x 570 | 2380 |
| 490 x 590 | 19 x 23 | 570 x 670 | 2865 |

| INTERNAL DIMENSION | | EXTERNAL DIMENSION | AREA |
|--------------------|---------|--------------------|---------------------|
| (mm) | Inches | (mm) | (cm ²) |
| 520 x 520 | 20 x 20 | 600 x 600 | 2680 |
| 520 x 620 | 20 x 24 | 600 x 700 | 3200 |
| 520 x 1020 | 20 x 40 | 600 x 1000 | 5270 |
| 580 x 1180 | 23 x 46 | 670 x 1270 | 6805 |
| 586 x 920 | 23 x 36 | 666 x 1000 | 5360 |
| 610 x 610 | 24 x 24 | 690 x 690 | 3695 |
| 610 x 1118 | 24 x 44 | 690 x 1198 | 6785 |
| 645 x 645 | 25 x 25 | 740 x 740 | 4130 |
| 645 x 1130 | 25 x 44 | 735 x 1220 | 7250 |
| 653 x 653 | 26 x 26 | 740 x 740 | 4260 |
| 680 x 680 | 27 x 27 | 780 x 780 | 4595 |
| 720 x 1020 | 28 x 40 | 800 x 1100 | 7300 |
| 780 x 780 | 30 x 31 | 880 x 880 | 6080 |
| 780 x 1180 | 30 x 46 | 880 x 1280 | 9160 |
| 800 x 1000 | 31 x 40 | 890 x 1090 | 7960 |
| 880 x 880 | 35 x 35 | 980 x 980 | 7700 |
| 915 x 1118 | 36 x 44 | 996 x 1198 | 10200 |
| 920 x 920 | 36 x 36 | 1000 x 1000 | 8425 |
| 980 x 980 | 39 x 39 | 1080 x 1080 | 9600 |
| 1000 x 1000 | 40 x 40 | 1056 x 1056 | 9680 |
| 1020 x 1020 | 40 x 40 | 1100 x 1100 | 10360 |
| 1080 x 1080 | 42 x 42 | 1180 x 1180 | 11600 |
| 1130 x 1130 | 44 x 44 | 1220 x 1220 | 12720 |
| 1180 x 1180 | 46 x 46 | 1280 x 1280 | 13875 |
| 1000 x 2000 | 40 x 79 | 1080 x 2080 | 19940 |

Other sizes available

ROUND

| INTERNAL DIMENSION | | EXTERNAL DIMENSION | AREA |
|--------------------|--------|--------------------|---------------------|
| (mm) | Inches | (mm) | (cm ²) |
| Ø 200 | 8 | Ø 268 | 310 |
| Ø 250 | 10 | Ø 341 | 480 |
| Ø 300 | 12 | Ø 390 | 695 |
| Ø 350 | 14 | Ø 424 | 930 |
| Ø 400 | 16 | Ø 473 | 1230 |
| Ø 450 | 18 | Ø 545 | 1580 |
| Ø 500 | 20 | Ø 574 | 1935 |

| INTERNAL DIMENSION | | EXTERNAL DIMENSION | AREA |
|--------------------|--------|--------------------|---------------------|
| (mm) | Inches | (mm) | (cm ²) |
| Ø 600 | 24 | Ø 676 | 2790 |
| Ø 700 | 28 | Ø 790 | 3830 |
| Ø 750 | 30 | Ø 842 | 4400 |
| Ø 800 | 31 | Ø 880 | 5000 |
| Ø 900 | 36 | Ø 980 | 6280 |
| Ø 980 | 39 | Ø 1070 | 7510 |

Other sizes available

TRAPEZOIDAL (On request)

TECHNICAL INFORMATION

| STIF MODEL | DESIGN | Pstat@22 °C | EFFICIENCY RATIO | MAX VACUUM | KST MAX |
|------------|------------------------------|-----------------------|------------------|------------|-------------|
| VL | Single flat Integrated frame | 0,1 to 0,5 bar (±15%) | 80 % - 100 % | 50 mbar | 500 bar.m/s |



VIGILEX VL-R® VACUUM RESISTANCE: 50 mbar

APPLICATIONS

The VIGILEX VL-R is a curved explosion vent panel shaped according to a customer specification need. VIGILEX VL-R is suitable for all applications with low vacuum or working pressure (up to 50 % of static burst pressure) such as elevators, conveyors, silos, cyclones.

With an integral flange ready to install, covering the breaking point, the VIGILEX VL-R ensures a strong mechanical durability. The attached wide gasket provides the VIGILEX VL-R a perfect dustproof seal. The standard burst pressure is 0.1 bar (max. 0.5 bar) at 22 °C (72 °F).

The VIGILEX VL-R is tested after it has been formed, to ensure that the correct burst pressure is observed.

STANDARD CHARACTERISTICS

- Design : single curved sst 304 L
- Fully frame black EPDM gasket (-40°+80°C)
- Integrated stainless steel flange
- Curved: radius on request



**Fully frame
black EPDM gasket (-40°+80°C)**

OPTIONS

- Panel material stainless steel 316L
- Fully frame white silicon FDA gasket (-60°+200°C)
- High temperature graphite gasket (-200°+500°C)
- Integrated stainless steel 316L flange

CERTIFICATIONS

Ex II GD

EN 14 491
EN 14 994
EN 14 797
EN 1127.1



EU Certificate: INERIS 15ATEX0001X

Production quality assurance notification :
INERIS 08ATEXQ406

ACCESSORIES for VIGILEX VL-R (See page 24)

- Burst Sensor
- Weather protection vigilex WI
- Vacuum safety grid
- Thermal insulation vigilex TI
- Duct discharge

Explosion vent panel **dimensions:** **VIGILEX VL-R[®]**

RECTANGULAR & SQUARE

| INTERNAL DIMENSION | | EXTERNAL DIMENSION | AREA |
|--------------------|---------|--------------------|---------------------|
| (mm) | Inches | (mm) | (cm ²) |
| 110 x 290 | 4 x 11 | 174 x 354 | 290 |
| 150 x 600 | 6 x 24 | 230 x 680 | 885 |
| 170 x 470 | 7 x 19 | 250 x 550 | 785 |
| 220 x 420 | 9 x 17 | 300 x 500 | 910 |
| 229 x 229 | 9 x 9 | 310 x 310 | 515 |
| 229 x 305 | 9 x 12 | 310 x 386 | 690 |
| 247 x 610 | 10 x 24 | 327 x 690 | 1485 |
| 270 x 458 | 11 x 18 | 350 x 538 | 1220 |
| 300 x 500 | 12 x 20 | 380 x 580 | 1480 |
| 300 x 600 | 12 x 24 | 366 x 666 | 1605 |
| 305 x 457 | 12 x 18 | 386 x 538 | 1385 |
| 305 x 610 | 12 x 24 | 386 x 690 | 1845 |
| 319 x 765 | 12 x 30 | 405 x 850 | 2480 |
| 340 x 385 | 13 x 15 | 404 x 449 | 1250 |
| 340 x 440 | 13 x 17 | 404 x 504 | 1430 |
| 350 x 650 | 14 x 26 | 430 x 730 | 2255 |
| 375 x 655 | 15 x 25 | 460 x 740 | 2445 |
| 390 x 620 | 15 x 24 | 470 x 700 | 2395 |
| 410 x 410 | 16 x 16 | 480 x 480 | 1660 |
| 420 x 520 | 16 x 20 | 500 x 600 | 2165 |
| 420 x 920 | 16 x 36 | 500 x 1000 | 3835 |
| 457 x 890 | 20 x 28 | 537 x 970 | 4040 |
| 470 x 610 | 18 x 24 | 550 x 690 | 2845 |
| 480 x 680 | 19 x 27 | 580 x 780 | 3260 |
| 490 x 490 | 19 x 19 | 570 x 570 | 2380 |
| 490 x 590 | 19 x 23 | 570 x 670 | 2865 |

| INTERNAL DIMENSION | | EXTERNAL DIMENSION | AREA |
|--------------------|---------|--------------------|---------------------|
| (mm) | Inches | (mm) | (cm ²) |
| 520 x 520 | 20 x 20 | 600 x 600 | 2680 |
| 520 x 620 | 20 x 24 | 600 x 700 | 3200 |
| 520 x 1020 | 20 x 40 | 600 x 1000 | 5270 |
| 580 x 1180 | 23 x 46 | 670 x 1270 | 6805 |
| 586 x 920 | 23 x 36 | 666 x 1000 | 5360 |
| 610 x 610 | 24 x 24 | 690 x 690 | 3695 |
| 610 x 1118 | 24 x 44 | 690 x 1198 | 6785 |
| 645 x 645 | 25 x 25 | 740 x 740 | 4130 |
| 645 x 1130 | 25 x 44 | 735 x 1220 | 7250 |
| 653 x 653 | 26 x 26 | 740 x 740 | 4260 |
| 680 x 680 | 27 x 27 | 780 x 780 | 4595 |
| 720 x 1020 | 28 x 40 | 800 x 1100 | 7300 |
| 780 x 780 | 30 x 31 | 880 x 880 | 6080 |
| 780 x 1180 | 30 x 46 | 880 x 1280 | 9160 |
| 800 x 1000 | 31 x 40 | 890 x 1090 | 7960 |
| 880 x 880 | 35 x 35 | 980 x 980 | 7700 |
| 915 x 1118 | 36 x 44 | 996 x 1198 | 10200 |
| 920 x 920 | 36 x 36 | 1000 x 1000 | 8425 |
| 980 x 980 | 39 x 39 | 1080 x 1080 | 9600 |
| 1000 x 1000 | 40 x 40 | 1056 x 1056 | 9680 |
| 1020 x 1020 | 40 x 40 | 1100 x 1100 | 10360 |
| 1080 x 1080 | 42 x 42 | 1180 x 1180 | 11600 |
| 1130 x 1130 | 44 x 44 | 1220 x 1220 | 12720 |
| 1180 x 1180 | 46 x 46 | 1280 x 1280 | 13875 |
| 1000 x 2000 | 40 x 79 | 1080 x 2080 | 19940 |

Other sizes available

TECHNICAL INFORMATION

| STIF MODEL | DESIGN | Pstat@22 °C | EFFICIENCY RATIO | MAX VACUUM | KST MAX |
|------------|---------------------------------|--|------------------|------------|-------------|
| VL-R | Single flat Integrated frame | 0,1 to 0,2 bar (±25%) 0,2 to 0,5 bar (±20%) | 80 % - 100 % | 50 mbar | 500 bar.m/s |



VIGILEX VL-S® VACUUM RESISTANCE : mbar 50 mbar

APPLICATIONS

The VIGILEX VL-S is a low cost model suitable for all applications with low vacuum or working pressure (up to 50 % of static burst pressure) such as elevators, conveyors, silos, cyclones.

It is provided without flange and with a gasket covering the breaking points.

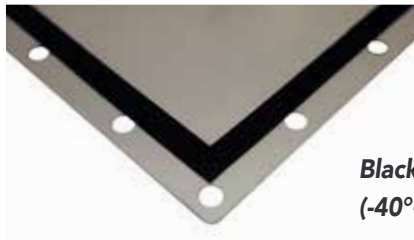
The standard burst pressure is 0.1 bar (max. 0.5 bar) at 22 °C (72 °F).

STANDARD CHARACTERISTICS

- Design : single flat sst 304 L
- Black EPDM gasket (-40°+80°C)

OPTIONS

- Panel material stainless steel 316L
- Silicon FDA gasket (-60°+200°C)
- High temperature CARBON gasket (-200°+500°C)



Black EPDM gasket
(-40°+80°C)

CERTIFICATIONS

Ex II GD

EN 14491
EN 14994
EN 14797
EN 1127.1

EU Certificate: INERIS 15ATEX0001X

Production quality assurance notification :
INERIS 08ATEXQ406



ACCESSORIES for VIGILEX VL-S (See page 24)

- Burst Sensor
- Thermal insulation vigilex TI
- Weather protection vigilex WI
- Duct discharge
- Vacuum safety grid

Explosion vent panel dimensions: **VIGILEX VL-S**

RECTANGULAR & SQUARE

| INTERNAL DIMENSION | | EXTERNAL DIMENSION | AREA |
|--------------------|---------|--------------------|---------------------|
| (mm) | Inches | (mm) | (cm ²) |
| 110 x 290 | 4 x 11 | 174 x 354 | 290 |
| 150 x 600 | 6 x 24 | 230 x 680 | 885 |
| 170 x 470 | 7 x 19 | 250 x 550 | 785 |
| 220 x 420 | 9 x 17 | 300 x 500 | 910 |
| 229 x 229 | 9 x 9 | 310 x 310 | 515 |
| 229 x 305 | 9 x 12 | 310 x 386 | 690 |
| 247 x 610 | 10 x 24 | 327 x 690 | 1485 |
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| 305 x 610 | 12 x 24 | 386 x 690 | 1845 |
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| 340 x 385 | 13 x 15 | 404 x 449 | 1250 |
| 340 x 440 | 13 x 17 | 404 x 504 | 1430 |
| 350 x 650 | 14 x 26 | 430 x 730 | 2255 |
| 375 x 655 | 15 x 25 | 460 x 740 | 2445 |
| 390 x 620 | 15 x 24 | 470 x 700 | 2395 |
| 410 x 410 | 16 x 16 | 480 x 480 | 1660 |
| 420 x 520 | 16 x 20 | 500 x 600 | 2165 |
| 420 x 920 | 16 x 36 | 500 x 1000 | 3835 |
| 457 x 890 | 20 x 28 | 537 x 970 | 4040 |
| 470 x 610 | 18 x 24 | 550 x 690 | 2845 |
| 480 x 680 | 19 x 27 | 580 x 780 | 3260 |
| 490 x 490 | 19 x 19 | 570 x 570 | 2380 |
| 490 x 590 | 19 x 23 | 570 x 670 | 2865 |

| INTERNAL DIMENSION | | EXTERNAL DIMENSION | AREA |
|--------------------|---------|--------------------|---------------------|
| (mm) | Inches | (mm) | (cm ²) |
| 520 x 520 | 20 x 20 | 600 x 600 | 2680 |
| 520 x 620 | 20 x 24 | 600 x 700 | 3200 |
| 520 x 1020 | 20 x 40 | 600 x 1000 | 5270 |
| 580 x 1180 | 23 x 46 | 670 x 1270 | 6805 |
| 586 x 920 | 23 x 36 | 666 x 1000 | 5360 |
| 610 x 610 | 24 x 24 | 690 x 690 | 3695 |
| 610 x 1118 | 24 x 44 | 690 x 1198 | 6785 |
| 645 x 645 | 25 x 25 | 740 x 740 | 4130 |
| 645 x 1130 | 25 x 44 | 735 x 1220 | 7250 |
| 653 x 653 | 26 x 26 | 740 x 740 | 4260 |
| 680 x 680 | 27 x 27 | 780 x 780 | 4595 |
| 720 x 1020 | 28 x 40 | 800 x 1100 | 7300 |
| 780 x 780 | 30 x 31 | 880 x 880 | 6080 |
| 780 x 1180 | 30 x 46 | 880 x 1280 | 9160 |
| 800 x 1000 | 31 x 40 | 890 x 1090 | 7960 |
| 880 x 880 | 35 x 35 | 980 x 980 | 7700 |
| 915 x 1118 | 36 x 44 | 996 x 1198 | 10200 |
| 920 x 920 | 36 x 36 | 1000 x 1000 | 8425 |
| 980 x 980 | 39 x 39 | 1080 x 1080 | 9600 |
| 1000 x 1000 | 40 x 40 | 1056 x 1056 | 9680 |
| 1020 x 1020 | 40 x 40 | 1100 x 1100 | 10360 |
| 1080 x 1080 | 42 x 42 | 1180 x 1180 | 11600 |
| 1130 x 1130 | 44 x 44 | 1220 x 1220 | 12720 |
| 1180 x 1180 | 46 x 46 | 1280 x 1280 | 13875 |
| 1000 x 2000 | 40 x 79 | 1080 x 2080 | 19940 |

Other sizes available

ROUND

| INTERNAL DIMENSION | | EXTERNAL DIMENSION | AREA |
|--------------------|--------|--------------------|---------------------|
| (mm) | Inches | (mm) | (cm ²) |
| Ø 200 | 8 | Ø 268 | 310 |
| Ø 250 | 10 | Ø 341 | 480 |
| Ø 300 | 12 | Ø 390 | 695 |
| Ø 350 | 14 | Ø 424 | 930 |
| Ø 400 | 16 | Ø 473 | 1230 |
| Ø 450 | 18 | Ø 545 | 1580 |
| Ø 500 | 20 | Ø 574 | 1935 |

| INTERNAL DIMENSION | | EXTERNAL DIMENSION | AREA |
|--------------------|--------|--------------------|---------------------|
| (mm) | Inches | (mm) | (cm ²) |
| Ø 600 | 24 | Ø 676 | 2790 |
| Ø 700 | 28 | Ø 790 | 3830 |
| Ø 750 | 30 | Ø 842 | 4400 |
| Ø 800 | 31 | Ø 880 | 5000 |
| Ø 900 | 36 | Ø 980 | 6280 |
| Ø 980 | 39 | Ø 1070 | 7510 |

Other sizes available

TECHNICAL INFORMATION

| STIF MODEL | DESIGN | Pstat@22 °C | EFFICIENCY RATIO | MAX VACUUM | KST MAX |
|------------|---------------------------------|-----------------------|------------------|------------|-------------|
| VL-S | Single flat Integrated frame | 0,1 to 0,5 bar (±15%) | 80 % - 100 % | 50 mbar | 500 bar.m/s |



VIGILEX VL-EHEDG®

VACUUM RESISTANCE : 50 mbar

APPLICATIONS

The new VIGILEX VL-EHEDG is designed especially for hygienic applications in food or pharmaceutical industry. Dedicated to protect systems with low vacuum or working pressure (up to 50% of static burst pressure) such as spray dryers. This panel is equipped with a patented gasket and is EHEDG certified. The high technology designed of this panel avoids contaminations.

The standard burst pressure is 0.1 bar (max. 0.5bar) at 22 °C (72 °F).

STANDARD CHARACTERISTICS

- Design : Single flat sst 316 L
- Blue FKM FDA gasket (-10°+250°C)
- Integrated stainless steel 304L flange
- Clean design
- Bacteriological barrier



TYPE EL CLASS I

CERTIFICATIONS

Ex II GD

EN 14491

EN 14994

EN 14797

EN 1127.1

EU Certificate: INERIS 15ATEX0001X

Production quality assurance notification :
INERIS 08ATEXQ406



ACCESSORIES for VIGILEX VL-EHEDG (See page 24)

- Burst Sensor
- Weather protection vigilex WI
- Duct discharge

Explosion vent panel **dimensions: VIGILEX VL-EHEDG[®]**  

RECTANGULAR & SQUARE

| INTERNAL DIMENSION | | EXTERNAL DIMENSION | | AREA |
|--------------------|---------|--------------------|--------|---------------------|
| (mm) | Inches | (mm) | (mm) | (cm ²) |
| 610 x 610 | 24 x 24 | 690 x 690 | | 3695 |
| 586 x 920 | 23 x 36 | 666 x 1000 | | 5360 |
| 782 x 882 | 31 x 35 | 990 x 890 | | 6790 |
| 920 x 920 | 36 x 36 | 1000 x 1000 | | 8425 |
| 1020 x 1020 | 40 x 40 | 1100 x 1100 | | 10360 |

TECHNICAL INFORMATION

| STIF MODEL | DESIGN | Pstat@22 °C | EFFICIENCY RATIO | MAX VACUUM | KST MAX |
|------------|---------------------------------|-----------------------|------------------|------------|-------------|
| VL-EHEDG | Single flat Integrated frame | 0,1 to 0,5 bar (±15%) | 80 % - 100 % | 50 mbar | 500 bar.m/s |

MAKE YOUR
HYGIENIC PROCESS

SAFE





VIGILEXVD® VACUUM RESISTANCE: mbar 200 mbar

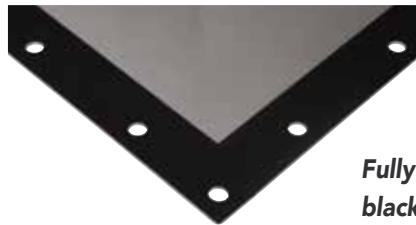
APPLICATIONS

The VIGILEX VD is a domed panel, designed to protect plants with a vacuum and pulsating processes. The domed design is optimal for pneumatic operated vessels like filters and cyclones with strong vibration.

With an integral flange ready to install and gasket included, the VIGILEX VD meet all your safety issues with the most demand in your application. The attached wide gasket provides the VIGILEX VD a perfect dustproof. The standard burst pressure is 0.1 bar (max. 0.5 bar) at 22°C (72°F).

STANDARD CHARACTERISTICS

- Design : single domed sst 304 L
- Fully frame black EPDM gasket (-40°+80°C)
- Integrated stainless steel flange



**Fully frame
black EPDM gasket (-40°+80°C)**

OPTIONS

- Panel material stainless steel 316L
- Fully frame white silicon FDA gasket (-60°+200°C)
- High temperature graphite gasket (-200°+500°C)
- Integrated stainless steel 316L flange

CERTIFICATIONS

Ex II GD

EN 14 491
EN 14 994
EN 14 797
EN 1127.1



EU Certificate: INERIS 15ATEX0001X

Production quality assurance notification :
INERIS 08ATEXQ406

ACCESSORIES for VIGILEX VD (See page 24)

- Burst Sensor
- Weather protection vigilex WI
- Vacuum safety grid
- Thermal insulation vigilex TI
- Duct discharge

Explosion vent panel **dimensions:** VIGILEX^{VD}

RECTANGULAR & SQUARE

| INTERNAL DIMENSION | | EXTERNAL DIMENSION | AREA |
|--------------------|---------|--------------------|---------------------|
| (mm) | Inches | (mm) | (cm ²) |
| 150 x 600 | 6 x 24 | 230 x 680 | 885 |
| 170 x 470 | 6 x 19 | 250 x 550 | 785 |
| 205 x 290 | 8 x 11 | 285 x 370 | 580 |
| 220 x 420 | 9 x 17 | 300 x 500 | 910 |
| 229 x 229 | 9 x 9 | 310 x 310 | 515 |
| 229 x 305 | 9 x 12 | 310 x 386 | 690 |
| 247 x 610 | 10 x 24 | 327 x 690 | 1485 |
| 270 x 458 | 11 x 18 | 350 x 538 | 1220 |
| 300 x 500 | 12 x 20 | 380 x 580 | 1480 |
| 305 x 457 | 12 x 18 | 386 x 538 | 1385 |
| 305 x 610 | 12 x 24 | 386 x 690 | 1845 |
| 340 x 385 | 13 x 15 | 404 x 449 | 1250 |
| 340 x 440 | 13 x 17 | 404 x 504 | 1430 |
| 350 x 650 | 14 x 26 | 430 x 730 | 2255 |
| 375 x 655 | 15 x 26 | 460 x 740 | 2445 |
| 410 x 410 | 16 x 16 | 480 x 480 | 1660 |

| INTERNAL DIMENSION | | EXTERNAL DIMENSION | AREA |
|--------------------|---------|--------------------|---------------------|
| (mm) | Inches | (mm) | (cm ²) |
| 457 x 890 | 20 x 28 | 537 x 970 | 4040 |
| 470 x 610 | 18 x 24 | 550 x 690 | 2845 |
| 490 x 490 | 19 x 19 | 570 x 570 | 2380 |
| 490 x 590 | 19 x 23 | 570 x 670 | 2865 |
| 525 x 668 | 21 x 26 | 630 x 765 | 3400 |
| 586 x 920 | 23 x 36 | 666 x 1000 | 5360 |
| 610 x 610 | 24 x 24 | 690 x 690 | 3695 |
| 610 x 1118 | 24 x 44 | 690 x 1198 | 6785 |
| 645 x 645 | 25 x 25 | 735 x 735 | 4130 |
| 645 x 1130 | 25 x 44 | 735 x 1220 | 4130 |
| 653 x 653 | 26 x 26 | 740 x 740 | 4260 |
| 915 x 1118 | 36 x 44 | 996 x 1198 | 10200 |
| 920 x 920 | 36 x 36 | 1000 x 1000 | 8425 |
| 920 x 1380 | 36 x 54 | 1000 x 1460 | 12420 |
| 980 x 980 | 39 x 39 | 1080 x 1080 | 9600 |
| 1020 x 1020 | 40 x 40 | 1100 x 1100 | 10360 |

Other sizes available

ROUND

| DIMENSIONS INTÉRIEURES | | DIMENSIONS EXTÉRIEURES | SURFACE |
|------------------------|--------|------------------------|---------------------|
| (mm) | Inches | (mm) | (cm ²) |
| Ø 200 | 8 | Ø 268 | 310 |
| Ø 250 | 10 | Ø 341 | 480 |
| Ø 300 | 12 | Ø 390 | 695 |
| Ø 350 | 14 | Ø 424 | 930 |
| Ø 400 | 16 | Ø 473 | 1230 |
| Ø 450 | 18 | Ø 545 | 1580 |
| Ø 500 | 20 | Ø 574 | 1935 |

| DIMENSIONS INTÉRIEURES | | DIMENSIONS EXTÉRIEURES | SURFACE |
|------------------------|--------|------------------------|---------------------|
| (mm) | Inches | (mm) | (cm ²) |
| Ø 600 | 24 | Ø 676 | 2790 |
| Ø 700 | 28 | Ø 790 | 3830 |
| Ø 750 | 30 | Ø 842 | 4400 |
| Ø 800 | 31 | Ø 880 | 5000 |
| Ø 900 | 36 | Ø 980 | 6280 |
| Ø 980 | 39 | Ø 1070 | 7510 |
| Ø 1200 | 47 | Ø 1290 | 11766 |

Autres dimensions sur demande
Other sizes available

TECHNICAL INFORMATION

| STIF MODEL | DESIGN | Pstat@22 °C | EFFICIENCY RATIO | MAX VACUUM | KST MAX |
|------------|----------------------------------|-----------------------|------------------|------------|-------------|
| VD | Single domed Integrated frame | 0,1 to 0,5 bar (±15%) | 80 % - 100 % | 200 mbar | 500 bar.m/s |

VIGILEX VD-HV® VACUUM RESISTANCE : 200 - 600 mbar

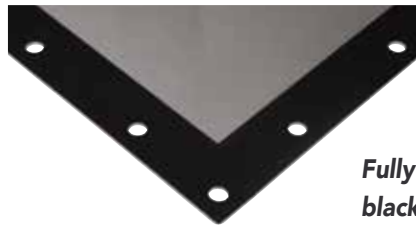
APPLICATIONS

The VIGILEX VD-HV is a strong domed panel, designed for use in applications where the operating pressure approaches the burst pressure, or where high vacuum pressure may exist. In the need for applications where the explosion vent is exposed to pulsating duty such as reverse jet cleaning systems on dust collectors with high vacuum.

With a large flange and gasket included, the one layer domed panel VIGILEX VD-HV meets all your safety issue to protect equipment and facilities. The standard burst pressure is 0.1 bar (max. 0.5 bar) at 22 °C (72 °F).

STANDARD CHARACTERISTICS

- Design : single domed sst 304 L
- Fully frame black EPDM gasket (-40°+80°C)
- Integrated stainless steel flange



**Fully frame
black EPDM gasket (-40°+80°C)**

OPTIONS

- Panel material stainless steel 316L
- Fully frame white silicon FDA gasket (-60°+200°C)
- High temperature graphite gasket (-200°+500°C)
- Integrated stainless steel 316L flange

CERTIFICATIONS

Ex II GD

EN 14 491
EN 14 994
EN 14 797
EN 1127.1



EU Certificate: INERIS 15ATEX0001X

Production quality assurance notification :
INERIS 08ATEXQ406

ACCESSORIES for VIGILEX VD-HV (See page 24)

- Burst Sensor
- Weather protection vigilex WI
- Vacuum safety grid
- Thermal insulation vigilex TI
- Duct discharge

Explosion vent panel **dimensions: VIGILEX VD-HV[®]**

RECTANGULAR & SQUARE

| INTERNAL DIMENSION | | EXTERNAL DIMENSION | AREA |
|--------------------|---------|--------------------|---------------------|
| (mm) | Inches | (mm) | (cm ²) |
| 150 x 600 | 6 x 24 | 230 x 680 | 885 |
| 170 x 470 | 6 x 19 | 250 x 550 | 785 |
| 205 x 290 | 8 x 11 | 285 x 370 | 580 |
| 220 x 420 | 9 x 17 | 300 x 500 | 910 |
| 229 x 229 | 9 x 9 | 310 x 310 | 515 |
| 229 x 305 | 9 x 12 | 310 x 386 | 690 |
| 247 x 610 | 10 x 24 | 327 x 690 | 1485 |
| 270 x 458 | 11 x 18 | 350 x 538 | 1220 |
| 300 x 500 | 12 x 20 | 380 x 580 | 1480 |
| 305 x 457 | 12 x 18 | 386 x 538 | 1385 |
| 305 x 610 | 12 x 24 | 386 x 690 | 1845 |
| 340 x 385 | 13 x 15 | 404 x 449 | 1250 |
| 340 x 440 | 13 x 17 | 404 x 504 | 1430 |
| 350 x 650 | 14 x 26 | 430 x 730 | 2255 |
| 375 x 655 | 15 x 26 | 460 x 740 | 2445 |
| 410 x 410 | 16 x 16 | 480 x 480 | 1660 |

| INTERNAL DIMENSION | | EXTERNAL DIMENSION | AREA |
|--------------------|---------|--------------------|---------------------|
| (mm) | Inches | (mm) | (cm ²) |
| 457 x 890 | 20 x 28 | 537 x 970 | 4040 |
| 470 x 610 | 18 x 24 | 550 x 690 | 2845 |
| 490 x 490 | 19 x 19 | 570 x 570 | 2380 |
| 490 x 590 | 19 x 23 | 570 x 670 | 2865 |
| 525 x 668 | 21 x 26 | 630 x 765 | 3400 |
| 586 x 920 | 23 x 36 | 666 x 1000 | 5360 |
| 610 x 610 | 24 x 24 | 690 x 690 | 3695 |
| 610 x 1118 | 24 x 44 | 690 x 1198 | 6785 |
| 645 x 645 | 25 x 25 | 735 x 735 | 4130 |
| 645 x 1130 | 25 x 44 | 735 x 1220 | 4130 |
| 653 x 653 | 26 x 26 | 740 x 740 | 4260 |
| 915 x 1118 | 36 x 44 | 996 x 1198 | 10200 |
| 920 x 1380 | 36 x 54 | 1000 x 1460 | 12420 |
| 980 x 980 | 39 x 39 | 1080 x 1080 | 9600 |
| 1020 x 1020 | 40 x 40 | 1100 x 1100 | 10360 |

Other sizes available

ROUND

| INTERNAL DIMENSION | | EXTERNAL DIMENSION | AREA |
|--------------------|--------|--------------------|---------------------|
| (mm) | Inches | (mm) | (cm ²) |
| Ø 200 | 8 | Ø 268 | 310 |
| Ø 250 | 10 | Ø 341 | 480 |
| Ø 300 | 12 | Ø 390 | 695 |
| Ø 350 | 14 | Ø 424 | 930 |
| Ø 400 | 16 | Ø 473 | 1230 |
| Ø 450 | 18 | Ø 545 | 1580 |
| Ø 500 | 20 | Ø 574 | 1935 |

| INTERNAL DIMENSION | | EXTERNAL DIMENSION | AREA |
|--------------------|--------|--------------------|---------------------|
| (mm) | Inches | (mm) | (cm ²) |
| Ø 600 | 24 | Ø 676 | 2790 |
| Ø 700 | 28 | Ø 790 | 3830 |
| Ø 750 | 30 | Ø 842 | 4400 |
| Ø 800 | 31 | Ø 880 | 5000 |
| Ø 900 | 36 | Ø 980 | 6280 |
| Ø 980 | 39 | Ø 1070 | 7510 |

Other sizes available

TECHNICAL INFORMATION

| STIF MODEL | DESIGN | Pstat@22 °C | EFFICIENCY RATIO | MAX VACUUM | KST MAX |
|------------|----------------------------------|-----------------------|------------------|----------------|-------------|
| VD-HV | Single domed Integrated frame | 0,1 to 0,5 bar (±15%) | 80 % - 100 % | 200 - 600 mbar | 500 bar.m/s |



VIGILEXVQ® APPLICATIONS

The VIGILEX VQ is a rectangular flameless device connected with an internal standard panel VIGILEX bursting panel.

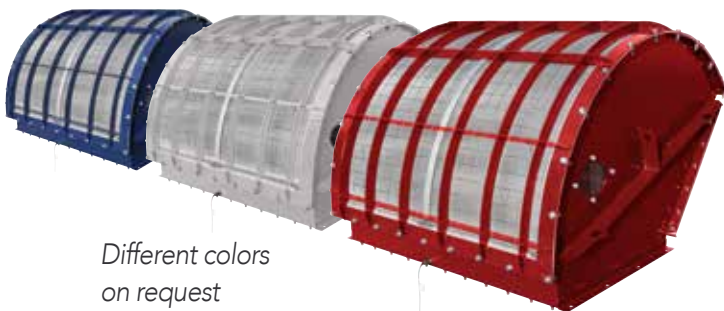
It can be used with great effect indoors and outdoors and is a fast and easy solution instead of cumbersome and expensive solutions with pipe installations to the open air.

VIGILEX VQ provides effective low pressure resistance, eliminating the spread of flame and glowing particles. During the early stage of an explosion the explosion vent opens. The flame, burned and unburned dust enter the flame arrestor element. Flame propagation beyond the VQ is prevented by energy dissipation in the filter element, reducing the burning fuel below its ignition temperature.

The dust is retained within the VQ and gases from the explosion are vented through the device into the external atmosphere around the device.

STANDARD CHARACTERISTICS

- VL flat vent panel or VD domed vent panel included
- Mild steel body + coating
- Stainless steel mesh
- Burst sensor VIGILEX SEC included



Different colors
on request

CERTIFICATIONS

Ex II GD
Ex II 2 D

EN 16009

EC Certificate: INERIS 14ATEX0049X

Production quality assurance notification:
INERIS 08ATEXQ406

CERTIFIED FOR :

- Organic dust
- Fiber dust
- **Metal dust**
- **Gas**

NEW



ACCESSORIES for VIGILEX VQ

- Sanitary Cover



- Body made of stainless steel
(See page 23)

Flameless **dimensions:** **VIGILEXVQ LW**[®] Light weight - Pred: 0,5 bar

VIGILEXVQ HW[®] High Weight - Pred: 2,3 bar

FLAMELESS

VIGILEX VQ SPECIFICATIONS

| VIGILEX VQ | | IN COMBINATION WITH VENT PANEL | | | | BOLT SPECS | |
|------------|-----------|--------------------------------|------------|---|-------------|------------|-------------------|
| MODEL | | Nominal Size (mm/inch) | | Nominal Square (m ² /ft ²) | | Qty | Size |
| VIGILEX VQ | 170x470 | 170 x 470 mm | 7 x 19 in | 0,0785 m ² | 0,845 sqft | 20 | M10x30 |
| VIGILEX VQ | 270x458 | 270 x 458 mm | 11 x 18 in | 0,1220 m ² | 1,315 sqft | 22 | M10x30 |
| VIGILEX VQ | 300x500 | 300 x 500 mm | 12 x 20 in | 0,1480 m ² | 1,595 sqft | 24 | M10x30 |
| VIGILEX VQ | 305x610 | 305 x 610 mm | 12 x 24 in | 0,1840 m ² | 1,980 sqft | 26 | M10x30 |
| VIGILEX VQ | 350x650 | 350 x 650 mm | 14 x 26 in | 0,2250 m ² | 2,425 sqft | 26 | M10x30 |
| VIGILEX VQ | 490x590 | 490 x 590 mm | 19 x 23 in | 0,2865 m ² | 3,084 sqft | 32 | M10x30 |
| VIGILEX VQ | 610x610 | 610 x 610 mm | 24 x 24 in | 0,3695 m ² | 3,975 sqft | 32 | M10x30 |
| VIGILEX VQ | 457x890 | 457 x 890 mm | 18 x 35 in | 0,4040 m ² | 4,349 sqft | 34 | M10x30 NEW |
| VIGILEX VQ | 586x920 | 586 x 920 mm | 23 x 36 in | 0,5360 m ² | 5,770 sqft | 42 | M10x30 |
| VIGILEX VQ | 645x1130 | 645x1130 mm | 25 x 44 in | 0,7250 m ² | 7,804 sqft | 34 | M10x30 NEW |
| VIGILEX VQ | 920x920 | 920 x 920 mm | 36 x 36 in | 0,8425 m ² | 9,068 sqft | 50 | M10x30 NEW |
| VIGILEX VQ | 1130x1130 | 1130 x 1130 mm | 44 x 44 in | 1,2720 m ² | 13,696 sqft | 58 | M10x30 NEW |

TECHNICAL INFORMATION

VIGILEX VQ LW

Kst max 500

Pmax ≤ 10 bar

Pred ≤ 0,5 bar

Pstat = 0,1 to 0,3 bar

VIGILEX VQ HW

Kst max 500

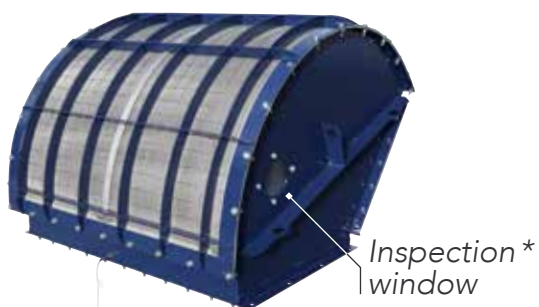
Pmax ≤ 10 bar

Pred ≤ 2,3 bar*

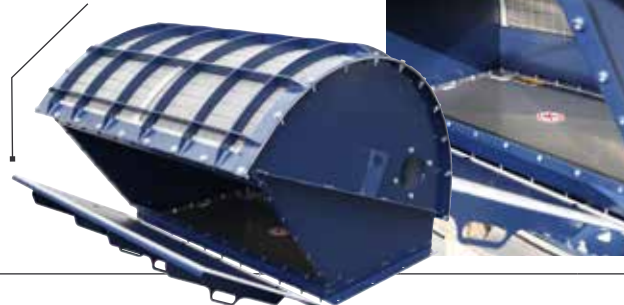
Pstat = 0,1 to 0,5 bar

*Pred < 1,85 for VQ 920x920 and 1130x1130

ADVANTAGES



Access door



* Only available on VQ LW

Flameless **curved**: VIGILEXVQR®



APPLICATIONS

The VIGILEX VQ R is a curved rectangular flameless device connected with a standard bursting panel VIGILEX VL R.

This curved flameless device can be installed directly on cylindrical vessels.

Thereby avoiding the possibility of a material accumulation in front of the explosion panel.

STANDARD CHARACTERISTICS

- VL-R Vent panel with EPDM gasket included
- Mild steel body + coating
- Stainless steel mesh
- Burst sensor VIGILEC SEC included
- Sizes page 21
- Radius on request

OPTION

- Silicon gasket



ACCESSORIES for VIGILEX VQ R

- Sanitary Cover



- Body made of stainless steel
(See page 23)

NEW

Metal dust approved EN 16009:

The VIGILEX VQ is certified to protect all facilities, equipment and machinery which process combustible metals.

It is the perfect safety device to avoid a catastrophic failure caused by a metal dust explosion.

The technology of the VIGILEX VQ design ensures the maximum resistance to the high temperatures generated by a metal dust fire or explosion creating a safe working environment.



SPECIFICS FLAMELESS

Flameless stainless steel: **VIGILEX VQ SST®**



APPLICATIONS

The VIGILEX VQ SST is a rectangular flameless device connected with a standard VIGILEX bursting panel. It is a perfect option for food or pharmaceutical facilities or installed in a moist atmosphere. VIGILEX VQ SST provides effective low pressure resistance, eliminating the spread of flame and glowing particles.

STANDARD CHARACTERISTICS

- VL or VD Vent panel with silicone gasket included
- Stainless steel body + coating
- Stainless steel mesh
- Burst sensor VIGILEC SEC included

ACCESSORIES for VIGILEX VQ SST

- Sanitary Cover





VIGIFLAP® EXPLOSION ISOLATION VALVE

AVAILABLE 2019

APPLICATIONS

The VigiFLAP is a non-return valve designed to prevent overpressure or flame caused by a downstream explosion (dust collectors, filters, cyclones...) to propagate in the piping system.

The valve is held open by a lever arm. It can be used both at the entrance and at the exit of the filter. This allows to isolate the filter of an explosion or an overpressure.

In case of explosion, the valve closes and remains locked preventing the passage of the flame. The unlocking of the flap is done manually.

STANDARD CHARACTERISTICS

- Body: Painted steel
- Flap: Full stainless steel
- Diameter: $\varnothing 160\text{mm}$ to $\varnothing 1300\text{mm}$
- Frame silicon FDA: 200°C
- Burst Sensor: Closing indication sensors in case of explosion or overpressure

CERTIFICATIONS

EN 16447

EN 15089

NFPA 69



OPTIONS for VigiFLAP

- Body: Galvanized steel
- Body: Stainless steel
- Accumulated dust level: Burst sensor to prevent dust accumulation
- Connection box installed on the body, according to the ATEX zone (opposite side of the locking mechanism)

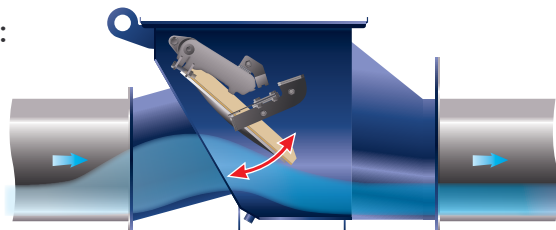
Technical information: VIGIFLAP[®]

FLAP POSITIONS

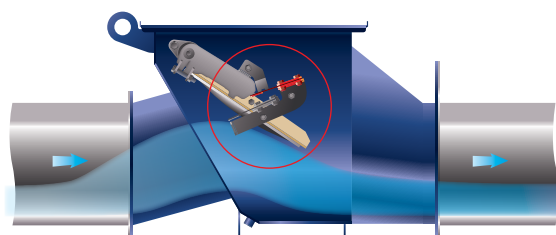
FLOW PROCESS

2 FLAP position during flow process:

Flap stay open by process flow.

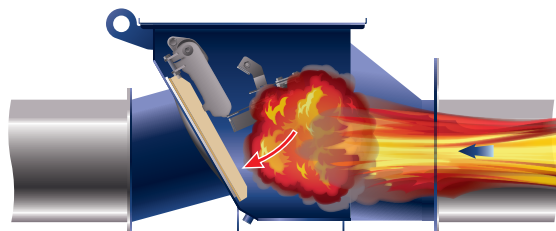


Flap is locked open.



EXPLOSION EVENT

Flap is closed by explosion and stay locked manual unlocking.



Non dust accumulation design

CAN ALSO BE USED
ON CLEAN AIR OUTLET

TECHNICAL INFORMATION

| | | | | | |
|---------|--|---------------------|------------------|------------------------|--------------------|
| KST MAX | St1 ≤ 200 bar.m/s St2 ≤ 300 bar.m/s | DUST | Any kind of dust | POSITION OF THE DEVICE | Horizontal +/- 10% |
| KST MIN | ≤ 50 bar.m/s | AMBIENT TEMPERATURE | -20°C... +60°C | FLUX | Supression ou vide |
| P MAX | ≤ 10 bar | SPEED FLOW | 15m/s... 35m/s | FLOW TEMPERATURE | ≤ 80°C |
| MESG | 1,5 mm (ex: sulfur) | DUST CONCENTRATION | No limit | INTERIOR | ATEX zone 20 |



V-DEX® DIVERTER

APPLICATIONS

The V-DEX diverter is used to deflect explosions propagating through the ducts, preventing the spread of flames or overpressures in connected vessels.

This device reduces the risk of flame spread.

STANDARD CHARACTERISTICS

- Body: Painted steel
- Explosion vent panel VL or domed explosion vent panel VD

CERTIFICATIONS

EN 14797

EN 14491



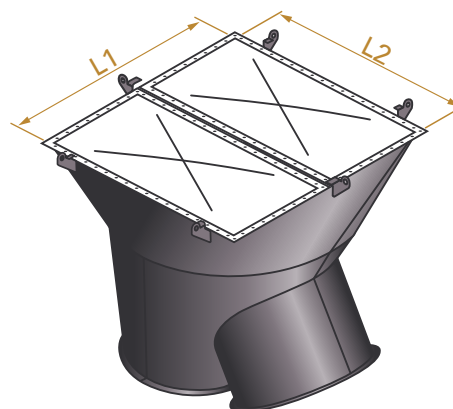
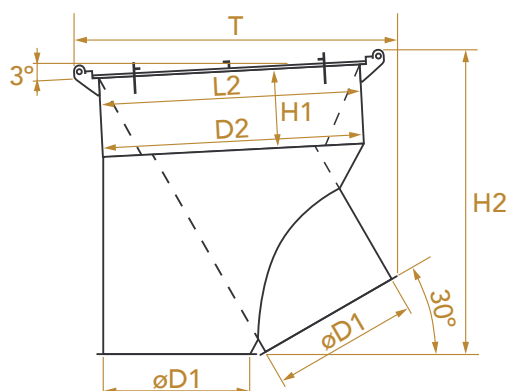
OPTIONS for V-DEX

- Body: Stainless steel

Diverter dimensions: V-DEX[®]



| DIVERTER CHARACTERISTICS | | | | | | | | | | |
|--------------------------|--------|-----|------|------|------|------|------|------|---------------------|--|
| MODEL | ∅ | H1 | H2 | D1 | D2 | L1 | L2 | T | Vent panel | |
| Model A | ∅ 200 | 150 | 555 | 200 | 410 | 410 | 410 | 685 | VD 410x410 | |
| | ∅ 250 | 175 | 600 | 250 | 490 | 490 | 490 | 781 | VD 490x490 | |
| | ∅ 300 | 200 | 700 | 300 | 610 | 610 | 610 | 875 | VD 610x610 | |
| | ∅ 350 | 225 | 800 | 350 | 645 | 645 | 645 | 975 | VD 645x645 | |
| | ∅ 400 | 250 | 900 | 400 | 780 | 780 | 780 | 1070 | VD 780x780 | |
| | ∅ 450 | 275 | 1000 | 450 | 850 | 920 | 920 | 1165 | VD 920x920 | |
| | ∅ 500 | 300 | 1100 | 500 | 920 | 920 | 920 | 1260 | VD 920x920 | |
| | ∅ 550 | 325 | 1200 | 550 | 980 | 980 | 980 | 1355 | VD 980x980 | |
| | ∅ 600 | 350 | 1300 | 600 | 1070 | 1020 | 1020 | 1455 | VD 1020x1020 | |
| | ∅ 650 | 375 | 1400 | 650 | 1180 | 1180 | 1180 | 1550 | VL 1180x1180 | |
| Model B | ∅ 700 | 400 | 1500 | 700 | 1250 | 1375 | 1130 | 1645 | VL 645x1130 (Qté 2) | |
| | ∅ 750 | 425 | 1600 | 750 | 1350 | 1455 | 1350 | 1740 | VL 685x1350 (Qté 2) | |
| | ∅ 800 | 450 | 1700 | 800 | 1430 | 1455 | 1350 | 1835 | VL 685x1350 (Qté 2) | |
| | ∅ 850 | 475 | 1800 | 850 | 1520 | 1605 | 1520 | 1930 | VL 760x1520 (Qté 2) | |
| | ∅ 900 | 500 | 1900 | 900 | 1600 | 1605 | 1520 | 2030 | VL 760x1520 (Qté 2) | |
| | ∅ 950 | 525 | 2000 | 950 | 1700 | 1785 | 1780 | 2125 | VL 850x1780 (Qté 2) | |
| | ∅ 1000 | 550 | 2100 | 1000 | 1780 | 1785 | 1780 | 2220 | VL 850x1780 (Qté 2) | |



TECHNICAL INFORMATION

| STIF MODEL | KST MAX | Pred. Max | PMAX | DUST |
|------------|-------------------|-----------|----------|------------------|
| V-DEX | St2 ≤ 300 bar.m/s | 0,8bar | ≤ 12 bar | Any kind of dust |

BURST SENSOR

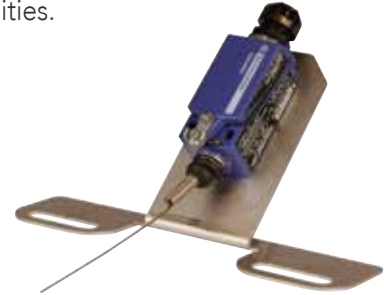
APPLICATIONS

The BURST SENSOR is a very efficient element to inform when your safety devices are open. Get the signal in realtime and increase the safety of your facilities.

VIGILEX MEC

Mechanical burst sensor

Atex Zone 21
Voltage: 12-240V AC/DC



VIGILEX MAG

Magnetic burst sensor

Atex Zone 21
Voltage: 12-60V DC



VIGILEX SEC

Breakable burst sensor

Atex Zone 21
Voltage: 12-24V DC



VIGILEX CAB

Breakable cable burst sensor

Voltage <ou = 1,5 DC
Current <ou = 100 mA
Power <ou = 25 mW



VIGILEX IND

Inductive proximity sensor

Atex Zone 21
Voltage: 12-48V DC



M-JET LINK

Connexion box

Atex Zone 21
To connect burst sensor and control unit



OTHERS ACCESSORIES

VIGILEX TI

Thermal insulation

Thermal insulation is provided by using ARMAFLEX covered with aluminium foil preventing heat loss, condensation and offering UV protection.



VIGILEX WI

Weather protection

This lightweight weather cover offers protection to the explosion vent panels from the elements with the effects of wind, snow, hail and dirt minimised.



VIGILEX CAP

Discharge duct

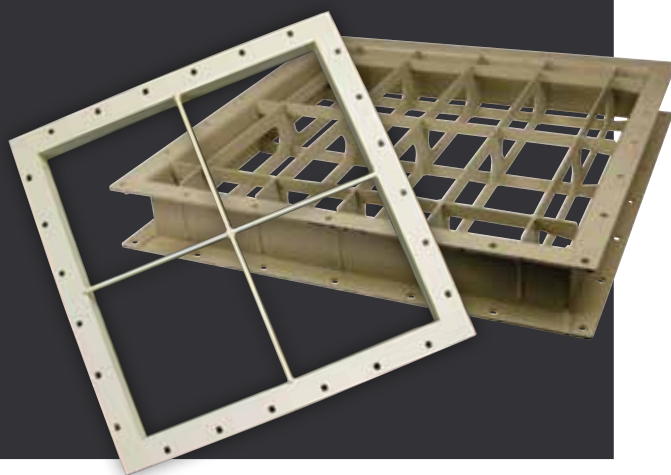
Range of duct discharge in either galvanized or stainless steel.



VIGILEX GS&GD

Vacuum safety grid

Range of fall and vacuum protection painted, galvanized or stainless steel.



We give you the opportunity **to access to all our documents** (drawings, certificates, data sheets, brochures,...) on our website dedicated to our explosion protection sytem range.

Watch our videos



Access to our software for vent area calculation

Download drawings of all our products range

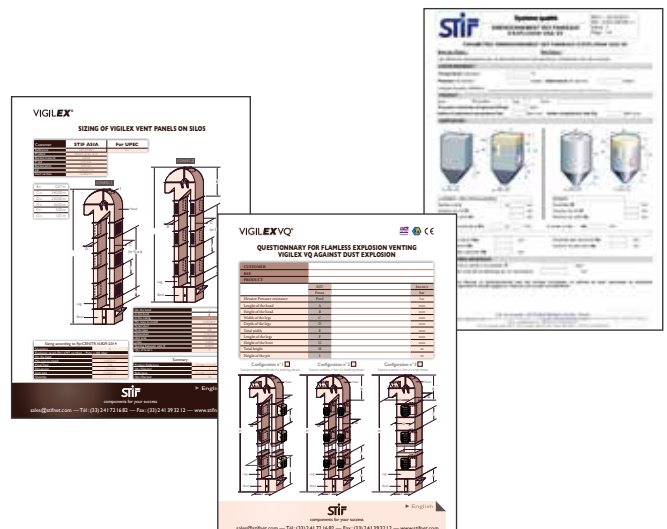
Find all the accessories you need to increase the performance of your safety equipment

Download our certificates and questionnaires

Contact our experts

QUESTIONNAIRES

By filling in the questionnaire, we can propose a solution designed to your requirements and conforming to the standards EN 14991, EN 14994, VDI 3673 and NFPA 68.



VIGILEX® VENT

SOFTWARE FOR VENT AREA CALCULATION

According to the standards EN 14491, EN 14994 and VDI3673, the vigilex vent software enables you to define the vent area needed to protect your application by yourself.

After your initial request to access on our site, you receive a code confirmation within 24 hours to have access to our vent area calculation software.

This software provide diferents vessels and machinery:
Silos, Filters, Elevators & Building.



DRAWINGS



All dimensions of our explosion panels are available on our website



CERTIFICATES



VIDEOS OF TESTS

Test for vent panel and flameless



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