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VIGILEX®
SAFETY PROTECTION
By **stir**

EXPLOSION PROTECTION

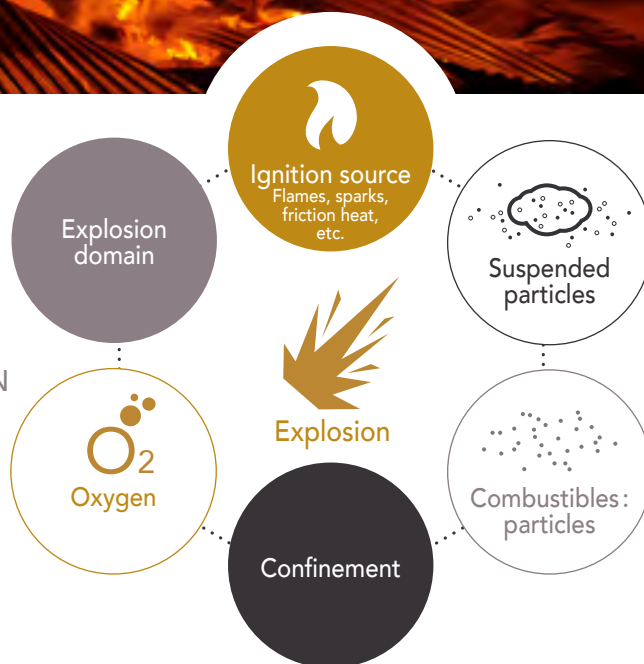


stir ASIA
components for your success

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 releases a large cloud of gas or dust
- An explosion does not require a flame
- A vessel can burst 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



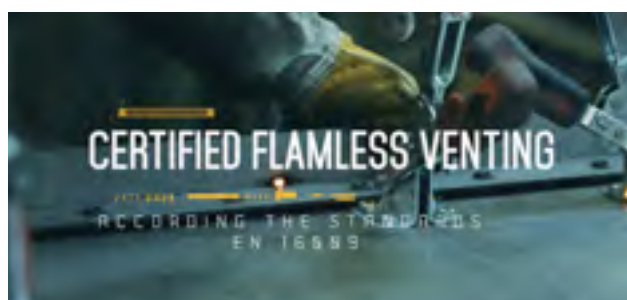
CERTIFICATIONS, CALCULATION & **TESTS**

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

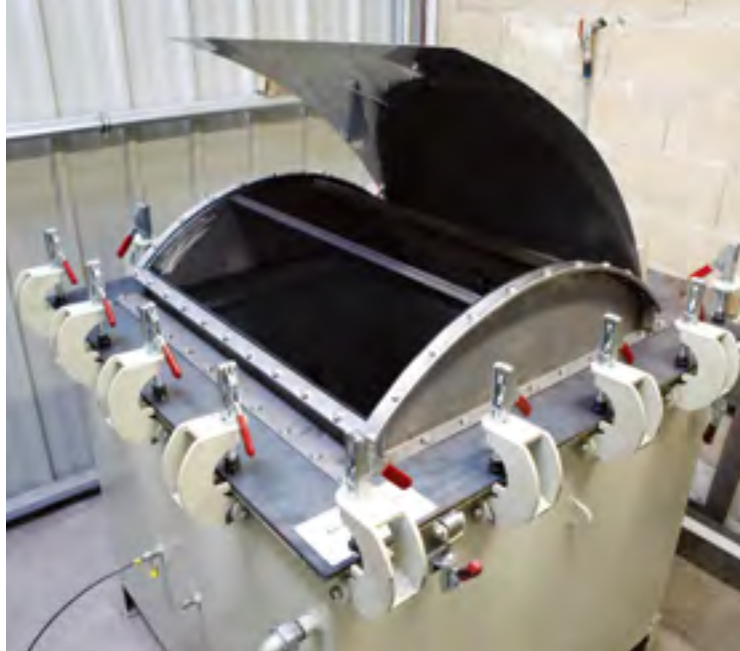
We determine for you the surface areas of the vents to be placed in your installations to be protected. Thanks to the main specific information related to the characteristics of your installations (KST, Predmax, Pmax, your installations size, etc.) which you will indicate to us, we can calculate the 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/EU



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 is 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:

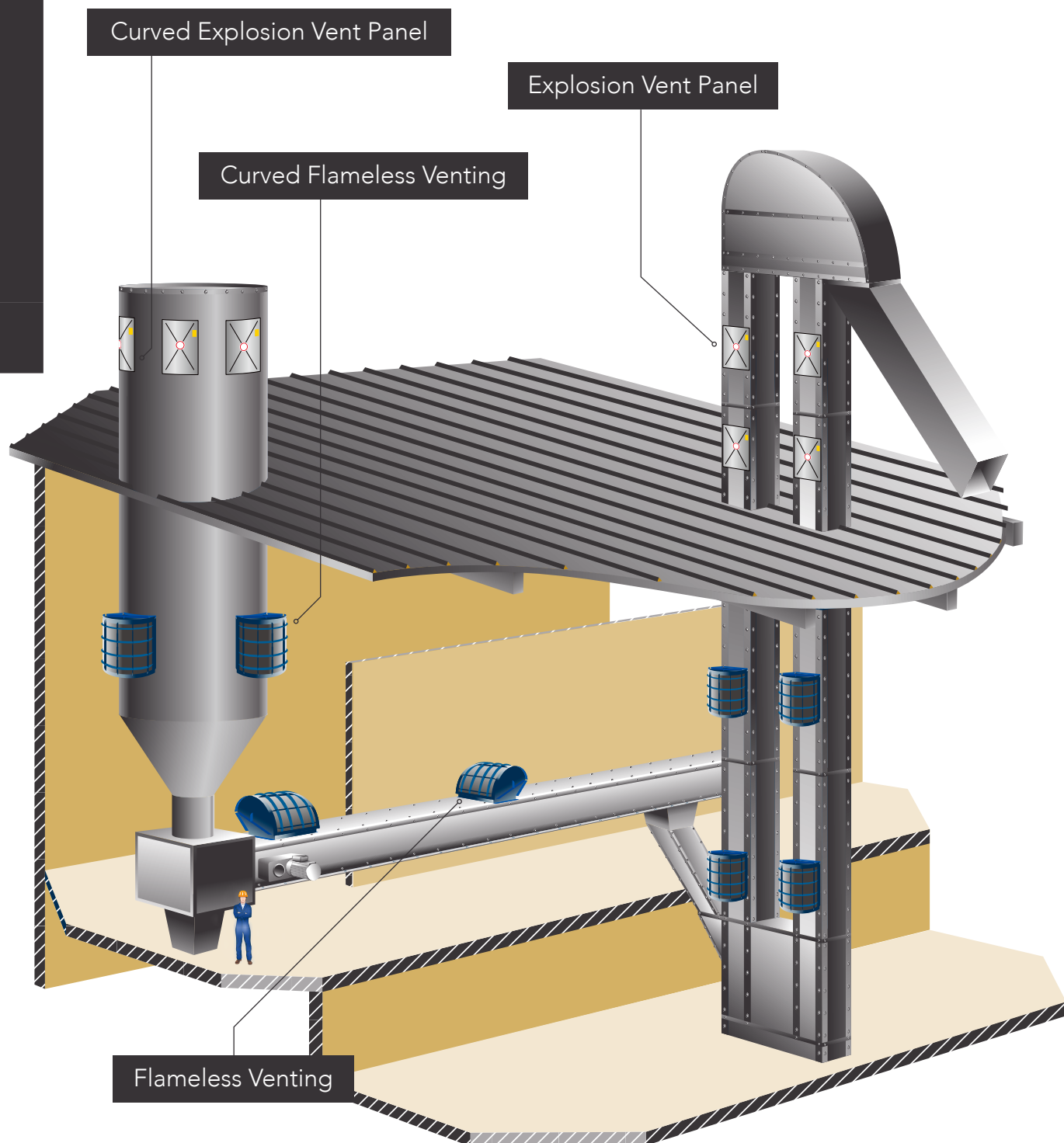
■ Organic dust

■ Fiber dust

■ Metal dust

■ Gas

INSTALLATION **DEVICES**



SUMMARY



Explosion Vent Panel

VIGILEX VL <i>Single flat</i>	8
VIGILEX VL-R <i>Single curved</i>	10
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Flameless Devices

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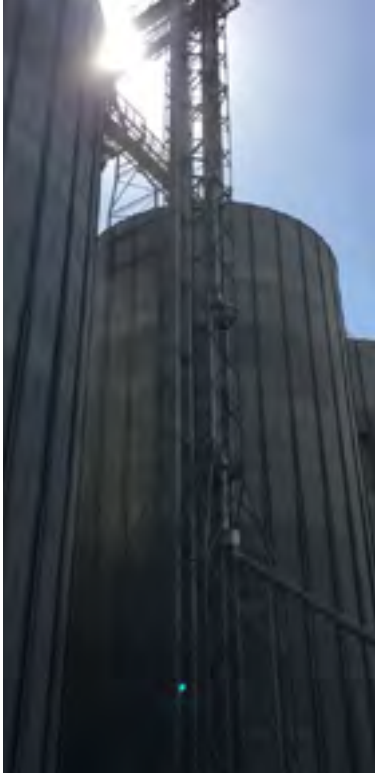
NEW



Accessories

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VIGILEX[®]VL VACUUM RESISTANCE : 50 MBAR

APPLICATIONS

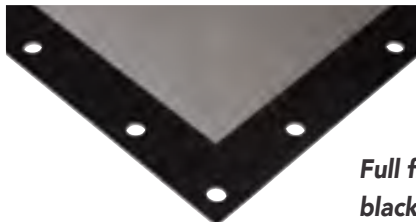
The VIGILEX VL is suitable for all applications with low vacuum or working pressure (up to 50% of static burst pressure) such as elevators, conveyors, silos, cyclones.

With an integral flange ready to be installed, 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
- Full frame black EPDM gasket (-40°+80°C)
- Integrated stainless steel flange



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

OPTIONS

- Panel material stainless steel 316L
- Full 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
- Discharge duct

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 26	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

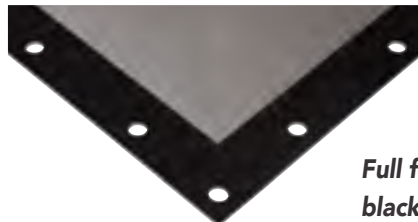
The VIGILEX VL-R is a curved explosion vent panel shaped according to a customer specification need. VIGILEX VL-R is suitable for all applications with low vacuum or working pressure (up to 50 % of static burst pressure) such as elevators, conveyors, silos, cyclones.

With an integral flange ready to be installed, 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
- Full frame black EPDM gasket (-40°+80°C)
- Integrated stainless steel flange
- Curved: radius on request



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

OPTIONS

- Panel material stainless steel 316L
- Full 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-R (See page 24)

- Burst Sensor
- Weather protection vigilex WI
- Vacuum safety grid
- Thermal insulation vigilex TI
- Discharge duct

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

RECTANGULAR & SQUARE

INTERNAL DIMENSION		EXTERNAL DIMENSION	AREA
(mm)	Inches	(mm)	(cm²)
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)	(cm²)
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 26	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 curved 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 : 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)



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)

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
- Weather protection vigilex WI
- Vacuum safety grid
- Thermal insulation vigilex TI
- Discharge duct

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
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 26	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 EHEDG® VACUUM RESISTANCE: 50 MBAR

APPLICATIONS

The new VIGILEX 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. 0.5 bar) at 22 °C (72 °F).

STANDARD CHARACTERISTICS

- Design : single flat SST 316 L
- White silicon FDA gasket (-60°+200°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 EHEDG (See page 24)

- Burst Sensor
- Weather protection vigilex WI
- Vacuum safety grid
- Thermal insulation vigilex TI
- Discharge duct

Explosion vent panel **dimensions:** **VIGILEX EHEDG®**  

RECTANGULAR & SQUARE

INTERNAL DIMENSION		EXTERNAL DIMENSION	AREA
(mm)	Inches	(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 : 200 MBAR

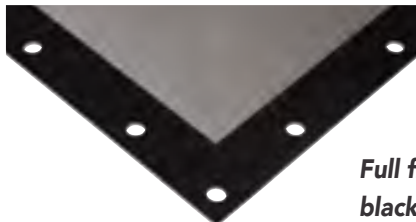
APPLICATIONS

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 be installed and gasket included, the VIGILEX VD meets all your safety issues with the most demand in your application. The attached wide gasket provides the VIGILEX VD 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 domed SST 304 L
- Full frame black EPDM gasket (-40°+80°C)
- Integrated stainless steel flange



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

OPTIONS

- Panel material stainless steel 316L
- Full 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 VD (See page 24)

- Burst Sensor
- Weather protection vigilex WI
- Vacuum safety grid
- Thermal insulation vigilex TI
- Discharge duct

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 26	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

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	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

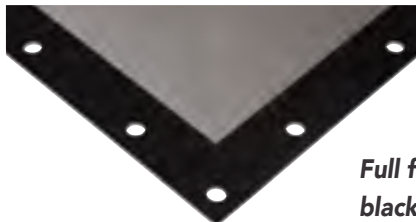
APPLICATIONS

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
- Full frame black EPDM gasket (-40°+80°C)
- Integrated stainless steel flange



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

OPTIONS

- Panel material stainless steel 316L
- Full 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 VD-HV (See page 24)

- Burst Sensor
- Weather protection vigilex WI
- Vacuum safety grid
- Thermal insulation vigilex TI
- Discharge duct

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
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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
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INTERNAL DIMENSION		EXTERNAL DIMENSION	AREA
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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.

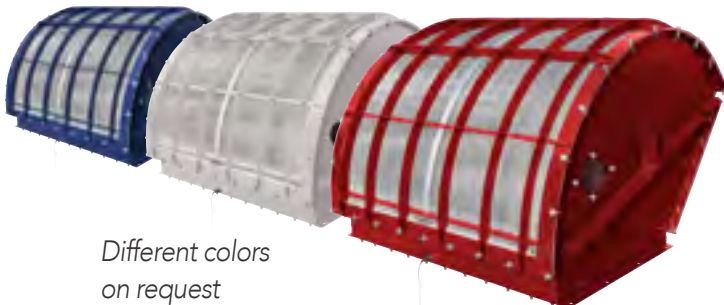
It can be used with great effect indoors and outdoors and is a fast and easy solution instead of cumbersome and expensive solutions with pipe installations to the open air.

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

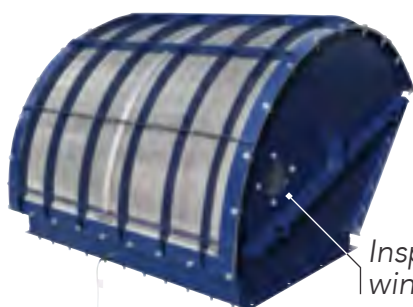
VIGILEX VQ		IN COMBINATION WITH VENT PANEL				BOLT SPECS	
MODEL		Nominal Size (mm/inch)		Nominal Square (m²/ft²)		Qty	Size
VIGILEX VQ	170x470	170 x 470 mm -	7 x 19 in	0,0785 m² -	0,845 sqft	20	M10x30
VIGILEX VQ	270x458	270 x 458 mm -	11 x 18 in	0,1220 m² -	1,315 sqft	22	M10x30
VIGILEX VQ	300x500	300 x 500 mm -	12 x 20 in	0,1480 m² -	1,595 sqft	24	M10x30
VIGILEX VQ	305x610	305 x 610 mm -	12 x 24 in	0,1840 m² -	1,980 sqft	26	M10x30
VIGILEX VQ	350x650	350 x 650 mm -	14 x 26 in	0,2250 m² -	2,425 sqft	26	M10x30
VIGILEX VQ	490x590	490 x 590 mm -	19 x 23 in	0,2865 m² -	3,084 sqft	32	M10x30
VIGILEX VQ	610x610	610 x 610 mm -	24 x 24 in	0,3695 m² -	3,975 sqft	32	M10x30
VIGILEX VQ	586x920	586 x 920 mm -	23 x 36 in	0,5360 m² -	5,770 sqft	42	M10x30
VIGILEX VQ	920x920	920 x 920 mm -	36 x 36 in	0,8425 m² -	9,068 sqft	50	M10x30
VIGILEX VQ	1130x1130	1130 x 1130 mm -	44 x 44 in	1,2720 m² -	13,696 sqft	58	M10x30

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

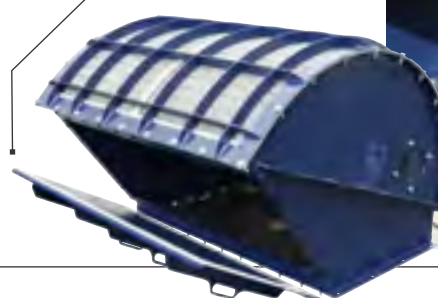
*Pred < 1,85 for VQ 920x920 and 1130x1130

ADVANTAGES



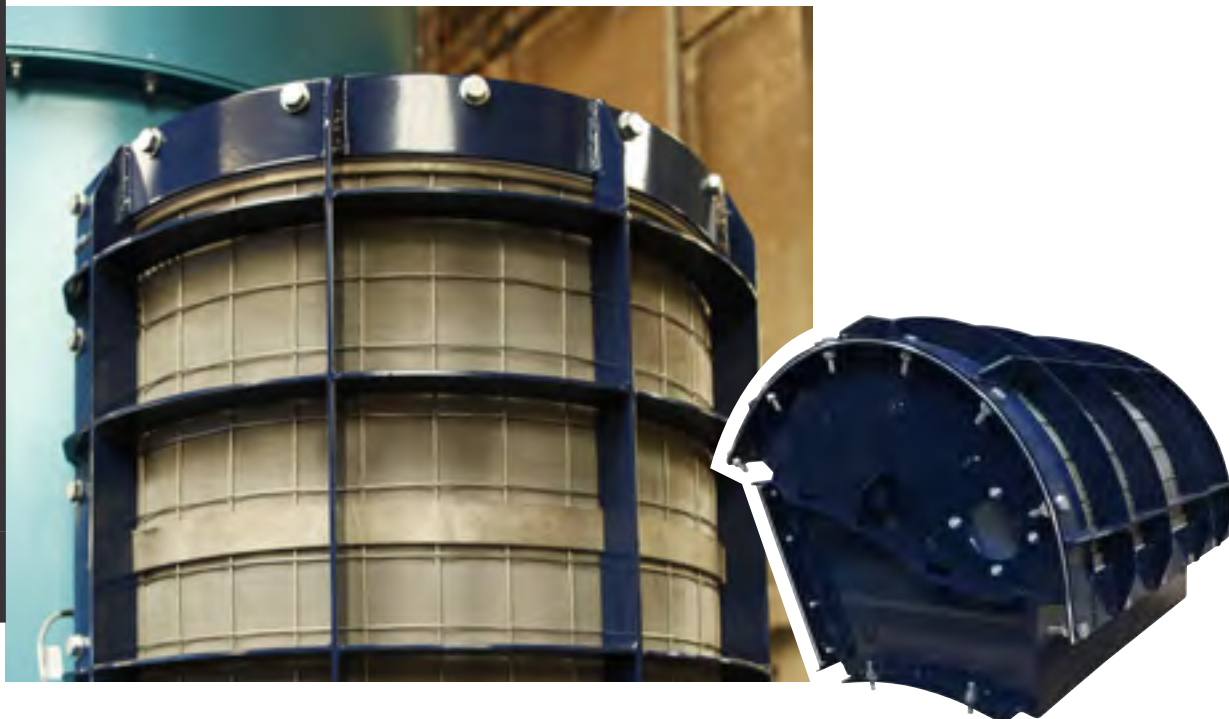
Inspection*

Access door



* Only available on VQ LW

Flameless **curved**: **VIGILEXVQ R®**



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 included
- Mild steel body + coating
- Stainless steel mesh
- Burst sensor VIGILEC SEC included
- Sizes page 21
- Radius on request



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.

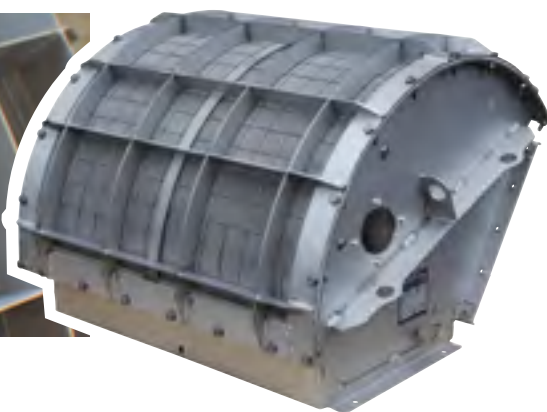
It is the perfect safety device to avoid a catastrophic failure caused by a metal dust explosion.

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

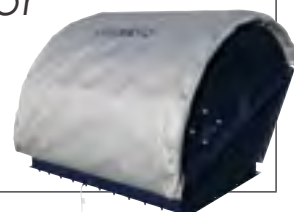
The VIGILEX VQ SST is a rectangular flameless device connected with a standard VIGILEX bursting panel. It is a perfect option for food or pharmaceutical facilities or installed in an moist atmosphere. VIGILEX VQ SST provides effective low pressure resistance, eliminating the spread of flame and glowing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



BURST SENSOR

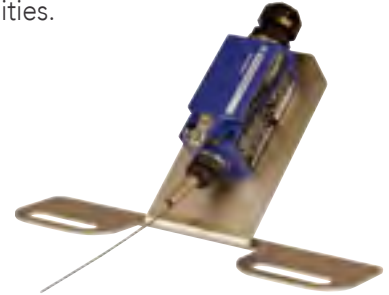
APPLICATIONS

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

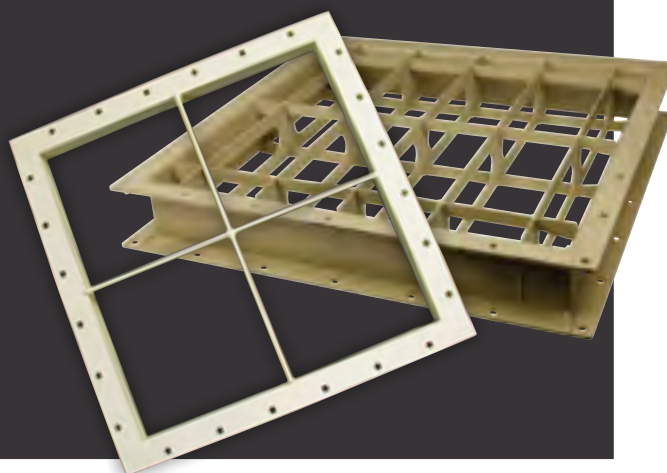
Range of discharge duct in either galvanised or stainless steel.



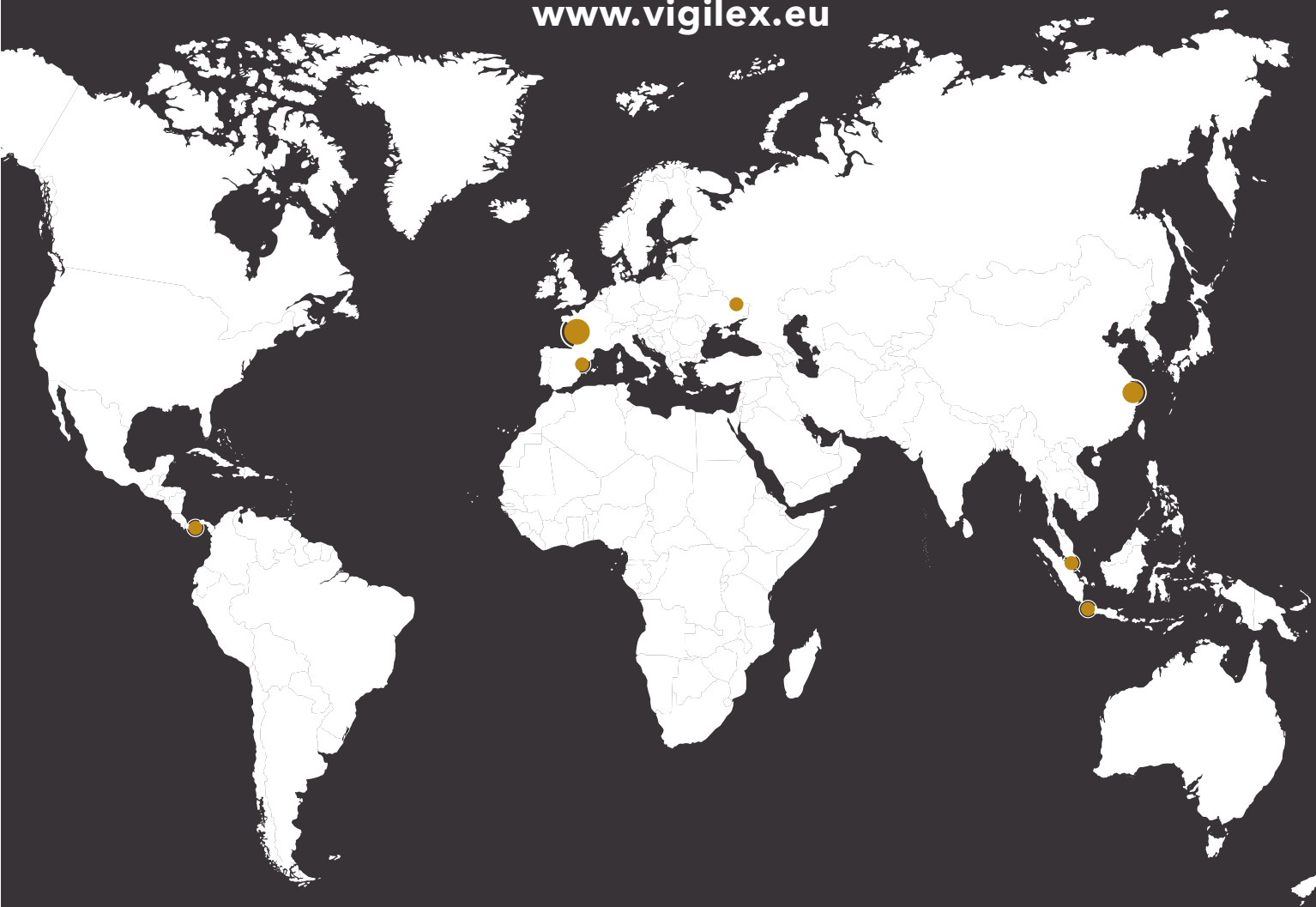
VIGILEX GS&GD

Vacuum safety grid

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



www.vigilex.eu



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