EU-Type Examination Certificate

[2] - Directive 2014/34/EU -
Equipment and protective systems intended for use
in potentially explosive atmospheres

[3]	EU-Type Examination Certificate Number:	GEX 24 ATEX 1036X	Issue 00
[4]	Product:	VIGIFLAM Vi® Flameless explosion venting device	
[5]	Manufacturer:	STIF France	
[6]	Address:	Zone Industrielle de la Lande 49170 SAINT GEORGES SUR LOIRE FRANCE	

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] Gexcon Certification AS, notified body number 2795, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential reports referred to in section 16.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 1127-1:2019 EN 16009:2011 EN 14797:2006
Except in respect to those requirements listed in section [18] of the schedule of this certificate.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance with annex III to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

Directive marking Harmonised standard(s) marking
II D (protective system)

Ole Lund
Gexcon Certification AS
Bergen, 17. September
2024

NORWEGIAN ACCREDITATION PROD 029

[13] # Schedule

[14] EU-Type Examination Certificate Number: GEX 24 ATEX 1036X Issue 00

[15] Description of product:

The VIGIFLAM Vi® is a device designed to protect an enclosure by flameless explosion venting. It consists of a flame quenching mesh and an explosion venting device with a static activation pressure of ≤100 mbar ±20% at 22 °C and a Pred, max of 1 bar.

The VIGIFLAM Vi® is supplied in multiple sizes.

VIGIFLAM Vi®		
Main Dimensions [mm x mm]	**Surface [m^2]**	**Volume [m^3]**
180x420	0.0756	0.525
170x470	0.0799	0.580
270x458	0.1237	1.138
205x610	0.1251	1.156
305x610	0.1861	1.935
350x650	0.2275	2.464
490x590	0.2891	3.250

Other intermediate sizes are possible.

The VIGIFLAM Vi® is designed so that it will immediately open a vent area sufficient to ensure that the maximum explosion pressure does not exceed the maximum pressure the protected enclosure is designed to withstand. In addition to explosion venting, the VIGIFLAM Vi® will prevent the transmission of flames and reduce the external explosion effects.

The VIGIFLAM Vi® is equipped with a detection device which gives a signal when the device activates. One of the following detectors can be used, depending on the hazardous area classification on the outside of the VIGIFLAM Vi®:

Type	Certificate number	Marking
IGEXHa 05	EPS 17 ATEX 1173X	II 1G Ex ia IIC T6 Ga II 1D Ex ia IIIC T145°C Da
XS6	INERIS 04 ATEX 0022	II 2D Ex tb IIIC T90°C Db IP68
IG001A	*Self-declared*	II 3D Ex tc IIIC T80°C Dc X IP67

[16]

Rev.	Description	Document number	Date
01	Certification Report	GC-CR-01-190173	16.09.2024

[17] Specific Conditions of Use:

The safety area limitations defined in section 3 in the User Instructions referenced in section 19 of this document must be maintained during operation.

The maximum protected volume per unit (Vmax, FV) and the efficiency are defined in the manufacturer's documentation.

According to test results VIGIFLAM Vi® has been shown to function safely with the following dust characteristics:

Type of dust	Organic dust*
$K_{st,max}$	≤ 200 m · bar s^{-1}
P_{max}	9.4 bar
MIE	≥ 19 mJ
MIT(dust cloud)	≥ 430 °C

*Including coarse and fibrous dusts.

The flameless venting device cannot be used to protect enclosures against dust/air explosions involving metal dusts.

[18] Essential Health and Safety Requirements:

In addition to the Essential Health and Safety Requirements covered by the standards listed at item [9], conformity with all other requirements is demonstrated in the relevant reports.

[19] Drawings and Documents:

Rev.	Title	Document number	Date
03/24	Technical file	BE1257006	16.09.2024
C	*VIGIFLAM Vİ mono-filter*	X7-0950A	20.08.2024
B	*VIGIFLAM Vİ mono-filter body*	X7-0952A	11.04.2024
B	*VIGIFLAM Vİ mono filter grid*	X7-0954A	11.04.2024
D	*VIGIFLAM VI filter*	X7-0956A	20.08.2024
C	*VIGIFLAM Vİ panel*	X7-0958A	05.09.2024
B	*VIGIFLAM Vİ body gasket*	X7-0959A	11.04.2024
C	*VIGIFLAM VI textile cover*	X7-0963A	18.06.2024
B	*VIGIFLAM Vİ mono-filter grid gasket*	X7-0960A	11.04.2024
B	*VIGIFLAM Vİ panel gasket*	X7-0962A	11.04.2024
B	*Cap M18x1*	X7-0972A	11.04.2024
A	*Nut M18x1*	X7-0974A	06.12.2023
03/24	*Installation and use instructions*	BE0457103	16.09.2024

[20] Certificate History:

Issue	Reason for revision	Date
00	Original certificate	17.09.2024