



EU-TYPE EXAMINATION CERTIFICATE

Component intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

Certificate Number: **CSANe 21ATEX9142U** Issue: **1**

Component: **Liquid Fuel Delivery Nozzles / 1+VIII & 1+VIIS**

Applicant: **Husky Corporation**

Address: **2325 Husky Way
Pacific, MO 63069
United States of America**

This component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

CSA Group Netherlands B.V. notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of a component intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 13012:2012

The sign 'U' is placed after the certificate number to indicate that the product assessed is a component and may be subject to further assessment when incorporated into equipment. Any limitations of use are listed in the schedule to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacture and supply of this component.

The marking of the component shall include the following:



II 1G

EN 13012 Type II Style 1



Signed: M Halliwell

Title: Director of Operations

Project Number 80180941

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SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

CSANe 21ATEX9142U
Issue 1

13 DESCRIPTION OF COMPONENT

Type 1+VIII

The 1+VIII is a nozzle platform, is equipped with a 1" BSP inlet, and has a max flow rate of 80 – 200 Litres/Minute. When the lever is pulled to the open position, the poppet raises against the flow of fuel, allowing the fuel to travel through the body to the spout, and into the fuel neck. There is a hole at the end of the spout that is connected by a tube and vent to a sealed chamber. When the fuel level reaches this hole on the spout, a vacuum is created by a Venturi and check valve system, and that vacuum is delivered to the sealed vacuum chamber. This vacuum causes the vacuum diaphragm assembly to be lifted, allowing the nozzle plunger to drop, and the lever to be disengaged, thus closing the poppet, and shutting off the flow. In addition to the automatic shut-off feature, the nozzle is equipped with an attitude device, which utilizes a stainless-steel ball that rolls back and blocks the flow of air through the Venturi and check valve area when the spout is raised near or above the horizontal position, and thus creating the same vacuum generation required to shut the nozzle off. The nozzle may be equipped with a number of different handguard options, as well as different lever and poppet options based on customer preference. All materials that will or are likely to come in to contact with fuels as defined by EN 13012:2012 are resistant to attack by the fuel. The nozzle is explosion protected in accordance with category 1 of EN13463-1 and fulfils the requirements for temperature class T3 and group IIA according to EN13463-1. All conducting parts are arranged such that potentially dangerous differences cannot exist between them. There are no composite materials used in the construction of the nozzle. The materials used in construction of the nozzle meet the requirements for category 1. This nozzle does not have an auto-deactivating feature otherwise known as a "No Pressure, No Flow" feature.

Type 1+VIIS

The 1+VIIS uses the concept and most of the same components as the standard 1+VIII. The main difference between the two is that the 1+VIIS has an auto-deactivating feature. This feature requires that a pressure be applied to the poppet before allowing the lever to be engaged. If no pressure is applied, when the lever is pulled, the "No Pressure, No Flow" feature won't allow the lever to engage, so the poppet won't open. The "No Pressure, No Flow" feature sits in the same location as the sealed vacuum chamber on the standard 1+VIII and that portion of the nozzle works in the same manner. This nozzle does have an auto-deactivating feature otherwise known as a "No Pressure, No Flow" feature.

Variation 1 - This variation introduced the following changes:

- i. Introduction of Part No 013835 – Poppet Stem Bushing, and replacement of Part No 000020 – Packing Seal, with Part No 012080 – Short Packing Seal.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	29 July 2021	R80082286A	The release of the prime certificate.
1	20 December 2023	R80180941A	The introduction of Variation 1.

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Issue 1

15 SCHEDULE OF LIMITATIONS

None

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF MANUFACTURE

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.
- 17.3 Each component manufactured will be subject to the routine testing as described in clause 7, B.9, B.11, B.12 and B.13 of EN 13012:2012.

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Certificate Annexe



Certificate Number: CSANe 21ATEX9142U

Component: Liquid Fuel Delivery Nozzles / 1+VIII & 1+VIII S

Applicant: Husky Corporation

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
VIII_ATEX	1 to 2	1	15 Jul 21	1 + VIII ATEX CERT DRAWING
VIIIS_ATEX	1 to 2	1	15 Jul 21	1 + VIIIS ATEX CERT DRAWING

Issue 1

Drawing	Sheets	Rev.	Date (Stamp)	Title
VIII_ATEX	1 to 2	2	10 Dec 23	VIII ATEX CERT DRAWING
VIIIS_ATEX	1 to 2	2	10 Dec 23	VIIIS ATEX CERT DRAWING
002187	1 of 1	45	14 Dec 23	BODY, I+8N/S, BSP (ISO228/1) MACHINED
002188	1 of 1	35	14 Dec 23	BODY, 8S, BSP, MACHINED
012080	1 of 1	1	14 Dec 23	SEAL, PACKING, SHORT
013835	1 of 1	2	14 Dec 23	BUSHING, PACKING

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