[1] # EU-TYPE EXAMINATION CERTIFICATE

[2] **Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**

[3] EU-Type Examination Certificate Number: **UL 24 ATEX 3210X Rev. 0**

[4] Product: **PANTHER EX 56, PANTHER EX 56 MS, PANTHER EX 72 and PANTHER EX 72 MS**

[5] Manufacturer: **PIUSI S.p.a.**

[6] Address: **Via Antonio Pacinotti 16A, I-46029 Suzzara (MN) Italy**

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

[8] UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the 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 report no. **DK/ULD/ExTR24.0013/00.**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 **EN 60079-1:2014** **EN ISO 80079-36:2016** **EN ISO 80079-37:2016**

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

[10] If the sign "**X**" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

[11] This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance 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 the certificate.

[12] The marking of the product shall include the following (marking is provided in the Schedule as a part of item 15, if applicable):

II 2 G Ex db h IIA T4 Gb

Certification Manager
Thomas Wilson

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2024-07-25

Notified Body UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com

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[13] [14]

Schedule
EU-TYPE EXAMINATION CERTIFICATE No.
UL 24 ATEX 3210X Rev. 0

[15] Description of Product

Volumetric rotary pumps models PANTHER Ex 56, PANTHER EX 56 MS, PANTHER EX 72 and PANTHER EX 72 MS are designed and constructed for the transfer of fuels (gasoline, diesel, kerosene and gasoline mixed alcohol up to 15%).
The equipment is composed by:
• Pump - volumetric vane priming rotary pump, equipped with a bypass valve.
• Motor - Brush motor powered by DC current (230-240V provided with a rectifier) with intermittent cycle, whose enclosure features a IP55 according to IEC 60334-5, directly flanged to the pump body.
The engine is equipped with an automatic thermal and overload protection. In case of intervention of protection turn off the pump and let cool it down.
There are two possible types of switch motor start:
• A mechanical switch directly connected to the dispenser holder (MS models);
• A magnetic switch physically separated from the engine internal volume.
Nomenclature:

PANTHER EX	56	MS
I	II	III

I – Series designation:
PANTHER EX

II – Flow rate:
56 – 56 l/m
72 – 72 l/m

III – Type of switch
MS – Mechanical switch
Blank – Magnetic switch

Temperature range
The ambient temperature range is -20 °C to +50 °C.

Electrical data

Models	Voltage	Current	RPM	Duty
PANTHER EX 56	230V – 50Hz	2.3 A	2800	Continuous S1
PANTHER EX 56 MS	230V – 60Hz	2.3 A	3400	
	240V – 50Hz	2.7 A	2800	
PANTHER EX 72	230V – 50Hz	2.4 A	2800	
PANTHER EX 72 MS	230V – 60Hz	2.3 A	3400	
	240V – 50Hz	2.7 A	2800	

Routine tests
Routine tests according to EN 60079-1 cl. 16 are not required, as the enclosures have been successfully tested at four times the reference pressure.

[16] Descriptive Documents
The scheduled drawings are listed in the report no. provided under item no. 8 on page 1 of this EU-Type Examination Certificate.

[17] Specific conditions of use:
- The screws class used for the assembly of explosion-proof enclosures must be of quality higher or equal to 8.8 (ISO 898-1).
- Flameproof joints are not intended to be repaired.
- Fluid temperature range shall be from -20°C to +50°C.
- The surface temperature determination was based on operation within “Zone A” (IEC 60034-1), ± 5 % of rated voltage

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[13] [14]

Schedule
EU-TYPE EXAMINATION CERTIFICATE No.
UL 24 ATEX 3210X Rev. 0

[18] Essential Health and Safety Requirements
The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

The trademark PIUSI will be used as the company identifier on the marking label.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.

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