

OIML Member State
The Netherlands

Number R117/2019-A-NL1-21.04
Project number 2555194
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Issuing authority
Person responsible: NMi Certin B.V.
M. Boudewijns

Applicant and
Manufacturer: Petrotec
Parque Industrial de Guimarães
S. João de Ponte
PT 4805-661 – GUIMARÃES
Portugal

Identification of the
Type: RTF A **gas separator** intended to be used as a part of a fuel dispenser.

Characteristics See page 2 and further

This OIML Certificate is issued under scheme A.

This Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML Type Evaluation Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

R 117:2019 "Dynamic measuring systems for liquids other than water"

Accuracy class 0,5

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation identified above. This Certificate does not bestow any form of legal international approval.

This certificate and supporting reports comply with the requirements of OIML-CS-PD-07 clause 6.2.

Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate was issued, partial quotation of the Certificate and of the associated OIML Type Evaluation Report(s) is not permitted, although either may be reproduced in full.

Issuing Authority **NMi Certin B.V., OIML Issuing Authority NL1**
16 March 2021

Certification Board

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This document is issued under the provision that no liability is accepted and that the applicant shall indemnify third-party liability.

The notification of NMi Certin B.V. as Issuing Authority can be verified at www.oiml.org

This document is digitally signed and sealed. The digital signature can be verified in the blue ribbon at the top of the electronic version of this certificate.



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The conformity was established by the results of tests and examinations provided in the associated report/certificate:

- No. PF/8463 dated 26 March 1997 that includes 31 pages^[1];
- No. CPC-812356-01 dated 03 April 2009 that includes 11 pages;
- No. NMI-2555194-02 dated 16 March 2021 that includes 30 pages.

Characteristics of the gas separator

In Table 1 the general characteristics of the gas separator are presented and table 2 consist of the flow characteristics.

The construction of the gas separator is recorded in the Documentation folder no. TC7294-3.

The gas separator is a mechanical gas separator based on the centrifugal principle and positioned after the gear pump in series with the bypass valve. As a result of the lateral injection of the liquid into a pipe the liquid will flow towards the exit of this pipe in a spiral movement. The heavier liquid is pressed to the exterior of the pipe and any present air or vapour bubbles will be collected in the centre. The air discharge pipe placed in the centre conducts the flow through a device called vortex valves, which is an internal leakage when there is no air. The liquid without air leaves the centrifugal vent by an opening on the outside of the pipe and flows into the high-pressure chamber.

Table 1 General characteristics

Measuring principle	Centrifugal principle
Density range	700 ... 900 kg/m ³
Viscosity range	0,4 ... 8 mPa·s
Accuracy class	0,5
Intended for the measurement of	Gasoline and Diesel

Table 2 Flow characteristics

Liquid temperature range	Qmax [L/min]	Pmin [bar]	Pmax [bar]
- 40 °C - + 50 °C	80	1,9	3,5
- 5 °C - + 35 °C	130	2,9	3,6

^[1] This certificate and test report were issued based on OIML R117:1995 edition.

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Production location

The gas separator is produced at one of the following production locations:

- Petrotec, Inovação e Industria, SA, Parque Industrial de Guimarães, Pav. C2, S.João de Ponte, 4805-661 Guimarães, Portugal.
- PETROTEC Retail Petroleum Equipment (India) Private Limited, E-108A/109/110, GIDC Electronic Estate, Sector-26, Gandhinagar-382 028 Gujarat India.

Certificate history:

This revision replaces the previous version.

Revision	Date	Description of the modification
Initial	16 March 2021	-
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