



OIML Certificate

OIML Member State
The Netherlands

Number R117/2007-A-NL1-24.01 revision 0
Project number 3766810
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Issuing authority NMi Certin B.V.
Person responsible: M.Ph.D. Schmidt

Applicant and Manufacturer
Gilbarco GmbH
Ferdinand-Henze-Straße 9
D-33154 Salzkotten
Germany

Identification of the certified type **A fuel dispenser**
Type: SK700-2 family including Sk700-2, Horizon 2, SK700-2/Frontier and SK700-2/Endura

Characteristics See following page(s)

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 117-1: 2007 "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**
19 March 2024

Certification Board

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The conformity was established by the results of tests and examinations provided in the associated report(s):

- No. NMI-3766810-01 dated 19 March 2024 that include 40 pages.

Characteristics of the measuring instrument

In Table 1 the general characteristics of the measuring instrument are presented.
The construction of the measuring instrument is recorded in the Documentation folder no. R117-2007-A-NL1-24-01-1.

Table 1 General characteristics

Minimum – maximum flow rate	1,6 – 40 L/min for viscosity range 0,4 - 1,0 mPa·s 2,0 – 80 L/min for viscosity range 1,1 - 4,5 mPa·s
Minimum measured quantity	2, 5 or 10 Litres; In case the Q_{max} of the measuring system is less than 60 L/min, the Minimum Measured Quantity shall not exceed 5 Litres.
Maximum pressure	3,5 bar(g)
Environmental classes	M1 / E1
Ambient temperature range	-25 °C / +55 °C -40 °C / +55 °C (with heater in calculator CPU & display housing)
Product temperature range	-40 – +50 °C
Intended for the measurement of	Hydrocarbon oils with viscosity range of 0,4 - 4,5 mPa·s

Each measuring instrument consists at least of:

- One measurement transducer (meter);
- One calculating/indicating device (calculator).

The same housing of the dispenser can comprise of one or more measuring systems. When more than one measuring systems are in one housing, one calculating/indicating device may be a common part of the measuring systems.

For multi-product dispensers it is only possible to deliver one product at the same time on one side of the dispenser.

In Table 3 the overview of the essential parts of the measuring instrument are presented. The characteristics of the mentioned parts of the fuel dispenser are presented at Table 4 and higher.

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Table 3 Overview parts of the measuring instrument

Part	Producer	Type	OIML Reports	Remarks
Measurement transducer	Gilbarco GmbH	C+	See Table 4 below	-
Calculating / indicating device	Gilbarco GmbH	Sandpiper- Apollo Apollo 2022	See Table 5 below	-

Table 4 General characteristics of the measurement transducer type C+

Producer	Gilbarco GmbH
Type	C+
Documentation folder	TC7144-3
Reports	No. CVN-10119469 dated 2 March 2001 that includes 56 pages; No. CVN-202211 dated 16 May 2003 that includes 49 pages.
Accuracy class	0,5
Flow rate range [L/min]	1,6 – 40 L/min for viscosity range 0,4 - 1,0 mPa·s 2,0 – 80 L/min for viscosity range 1,1 - 4,5 mPa·s
MMQ	2 L
Maximum pressure	3,5 bar
Ambient temperature range	-40 °C / +55 °C
Product temperature range	-40 °C / +50 °C
Intended for the measurement of	Products with viscosity between 0,4 mPa·s – 4,5 mPa·s
Impulse encoder or pulser	SIP-II and SIP-III Pulser

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Table 5 General characteristics of the calculating/indicating device type Sandpiper, Sandpiper-2, Sandpiper-Apollo

Producer	Gilbarco GmbH
Type	Sandpiper-Apollo and Apollo 2022
Documentation folder	TC7123-17
Reports	No. NMI-2228197-01 dated 4 April 2019 that include 32 pages; No. NMI-2228197-02 dated 4 April 2019 that include 25 pages; No. NMI-2435190-01 dated 23 April 2020 that include 34 pages; No. NMI-3503676-01 dated 24 May 2022 that include 34 pages; No. NMI-3465234-01 dated 10 October 2022 that include 14 pages; No. NMI-3754051-01 dated 7 March 2024 that include 33 pages.
Accuracy class	0,5
Maximum volume indication	7 digits
Maximum unit price	7 digits
Maximum price to pay	5 digits
Environmental classes	M1 / E1
Ambient temperature range	-25 °C / +55 °C -40 °C / +55 °C (with heater in CPU & display housing)
Power supply voltage	230Vac @ 50/60Hz
Impulse encoder or pulser	SIP-II and SIP-III Pulser
Software version	See table 6

Table 6 Software version and Checksum of the calculating/indicating device type Sandpiper-Apollo and Apollo 2022

Software versions	CRC Checksum
A30.2.15 (displayed as A30215)	55E4
A30.2.16 (displayed as A30216)	2501
A30.2.18 (displayed as A30218)	9035
A30.2.20 (displayed as A30220)	81A4
A32.2.18 (displayed as A32218)	3349
A32.2.19 (displayed as A32219)	BC0C
A32.2.20 (displayed as A32220)	3035



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Software versions	CRC Checksum
A32.2.21 (displayed as A32221)	4541
A32.2.24 (displayed as A32224)	9952

Certificate history:

Revision	Date	Description of the modification
Initial	19 March 2024	Initial issue