



# NMO



Member State of OIML  
United Kingdom of Great Britain  
and Northern Ireland

OIML Certificate No  
R117/2007-GB1-16.03

## OIML CERTIFICATE OF CONFORMITY

Issuing authority: **NMO**

Person responsible: **Max Linnemann – Head of Certification Body**

Applicant: **Gilbarco Veeder-Root**  
Address: **Crompton Close,  
Basildon,  
Essex,  
United Kingdom**

Manufacturer: **Gilbarco GmbH & Co. KG**  
Address: **Ferdinand Henze Strasse 9  
D-33154 Salzkotten  
Germany**

Identification of the certified pattern: **Liquids other than water dispenser, SK700-II family including SK700-II, SK700-II/Horizon, SK700-II/IOD, SK700-II/Frontier and Endura models.**

This certificate attests the conformity of the above-mentioned pattern (represented by the samples identified in the associated test report) with the requirements of the following Recommendation of the International Organisation of Legal Metrology (OIML):

**OIML R117 - Edition 2007(E) for accuracy class: 0.5**

This certificate relates only to the metrological and technical characteristics of the pattern of the instrument concerned, as covered by the relevant OIML International Recommendation.

This certificate does not bestow any form of legal international approval.

**Issue Date: 11 August 2016**  
**Reference No: TS0901/0043**

**G Stones**  
**Technical Manager**  
*For and on behalf of the Head of Certification Body*



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The conformity was established by tests described in the associated pattern evaluation report P01942.

**Characteristics:**

Mechanical Environment Class M2, Electromagnetic Environment Class E1

Each hydraulic circuit consists of:

1. one or two meters, types V, V+, C, C+ or Ecometer
2. GPU90 or GPU140 pump and gas separator, except for use in pressurized (STP) systems
3. one or two delivery hose circuits.

**Table 1 Prime Component Summary**

| Manufacturer                 | Type                               | Evaluation Certificate | Comments                       |
|------------------------------|------------------------------------|------------------------|--------------------------------|
| <b>Meters</b>                |                                    |                        |                                |
| Gilbarco Veeder-Root         | V, V+ meter                        | GB-1344                |                                |
| Gilbarco Veeder-Root         | C, C+, C global & C+ global meters | GB-1359                |                                |
| Gilbarco Veeder-Root         | Ecometer                           | GB-1551                |                                |
| <b>Gas Separators</b>        |                                    |                        |                                |
| Gilbarco GmbH                | GPU90                              | GB-1348                |                                |
| Gilbarco GmbH                | GPU140                             | GB-1350                |                                |
| <b>Electronic Calculator</b> |                                    |                        |                                |
| Gilbarco GmbH                | Sandpiper-2/<br>Sandpiper-Apollo   | GB-1487                |                                |
| Gilbarco Veeder-Root         | Rose                               | GB-1468                | Used in volume-only dispensers |

SK700-II : Up to five hydraulic circuits are housed in a single enclosure with one common Sandpiper series calculator,

SK700-II/Horizon : Up to four hydraulic circuits are housed in a single enclosure with one common Sandpiper series calculator,

SK700-II/IOD and SK700-II/Frontier : One or two hydraulic circuits are housed in a single enclosure with one common Sandpiper series calculator,

Endura : A single hydraulic circuit is housed in the enclosure with a Rose calculator.

Optional features and functions:

- communications (remote automation)
- vapour recovery systems
- temperature compensation
- delivery speed selection either by pushbutton or nozzle selection
- electronic or electromechanical totalizers,
- preset, keypad, pushbutton options
- slave displays, and/or master-satellite operation
- additional displays, alternative number of display digits and display size (minimum 6 digits money and volume, 4 digits unit price, and minimum height 25mm)
- multimedia display as described in GB-1487
- NC3 Payment Terminal (alternative name M7)

| Maximum Flowrate<br>l/min | Minimum flowrate<br>l/min | Minimum measured quantity<br>l | Maximum volume indication<br>l | Maximum unit price           | Maximum price to pay          | Liquids  |
|---------------------------|---------------------------|--------------------------------|--------------------------------|------------------------------|-------------------------------|--|
| 40                        | 4                         | 1*, 2 or 5                     | 9999999<br>(Floating decimal)  | 999999<br>(Floating decimal) | 9999999<br>(Floating decimal) | Gasoline, Gasoline with up to 86% ethanol or MTBE, Gasoline with up to 5% methanol, Diesel, Biodiesel (up to 100%) |
| 80                        | 4                         | 2, 5 or 10                     | 9999999<br>(Floating decimal)  | 999999<br>(Floating decimal) | 9999999<br>(Floating decimal) | Gasoline, Gasoline with up to 86% ethanol or MTBE, Gasoline with up to 5% methanol, Diesel, Biodiesel (up to 100%) |
| 130                       | 8                         | 2, 5 or 10                     | 9999999<br>(Floating decimal)  | 999999<br>(Floating decimal) | 9999999<br>(Floating decimal) | Diesel, Biodiesel (up to 100%)   |

Extended temperature range -40°C to +55°C with low temperature version of C+ meter

\*Note: this is outside of the scope of the recommendation. Utilising the C+ meter only, the meter has been shown to measure within the accuracy limits defined by OIML R117-1 2007 (E) at a minimum delivery of 1 litre. Any dispenser quoting a minimum delivery of 1 litre shall limit  $Q_{max}$  and hose length, and provide appropriate pulser and display resolution, in order to ensure compliance with limits for hose expansion masking at the start of delivery preset handling, pulser check periods and maximum increments of quantity registration.

**Certificate History**

| ISSUE NO.           | DATE           | DESCRIPTION              |
|---------------------|----------------|--------------------------|
| R117/2007-GB1-16.03 | 11 August 2016 | Certificate first issued |