

CERTIFICATE OF APPROVAL No 5/6A/67

VARIATION No 1

This is to certify that the following modification of the patterns of the
Gilbarco Driveway Flowmeter — Transac T10 Self-serve System
approved in Certificate No 5/6A/67 dated 19 May 1978

submitted by Gilbarco Australia Ltd,
16-34 Talavera Road,
North Ryde, New South Wales, 2113,

has been approved under the Weights and Measures (Patterns of Instruments)
Regulations as being suitable for use for trade.

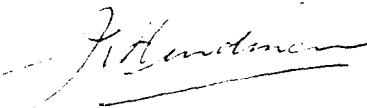
Date of Approval: 4 September 1978

The approved modification described in Technical Schedule No 5/6A/67 —
Variation No 1 and in drawings and specifications lodged with the Commission,
provides for a single Trimline driveway flowmeter Model T166XG.

The approval is subject to review on or after 1 May 1983.

All instruments conforming to this approval shall be marked with the approval
number "NSC No 5/6A/67"; the approval number shall be marked on each
driveway flowmeter and on the control console.

Signed



Assistant Executive Officer



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 5/6A/67

*Approved
See 5/6A/63*

Pattern: Gilbarco Driveway Flowmeter - Transac T10 Self-serve System

Submitter: Gilbarco Australia Ltd,
16-34 Talavera Road,
North Ryde, New South Wales, 2113.

Date of Approval: 24 April 1978

All instruments conforming to this approval shall be marked "NSC No 5/6A/67" on each driveway flowmeter and on the control console.

Description:

The pattern is a post-payment self-serve driveway flowmeter system comprising up to twelve driveway flowmeters, service modules and a remotely located control console. The system provides the operator with supervisory control over each driveway flowmeter and a repeat indication of the price indicated by each driveway flowmeter (see Figures 2 and 3).

Driveway Flowmeters:

The following types of driveway flowmeters may be used with this system:

1. Single Trimline Model T166AG (see Figure 4);
2. Dual Trimline Model T167AG (see Figure 2);*
3. Single Round Model T180AG (see Figure 6);
4. Dual Round Model T181AG (see Figure 7).*

Each driveway flowmeter is for the delivery of petrol at flow rates between 15 and 60 litres per minute. The hydraulic diagram of each flowmeter is illustrated in Figure 8. The instrument data plate of

* The Dual Trimline Model T167AG and the Dual Round Model T181AG each comprise two driveway flowmeters contained within a single housing.

each driveway flowmeter is marked "approved for petrol".

The component parts of each driveway flowmeter are listed in Figure 1.

The pump interlock of each driveway flowmeter is provided by a starting lever which prevents the nozzle being placed on its hang-up bracket, or what appears to be its hang-up bracket, without stopping the pump motor and engaging an interlock which prevents the pump motor from being restarted until the computer is reset to zero (see Figures 9 to 12). A bracket prevents the starting lever being lifted up beyond its "on" position (see Figure 13). A lead stamping plug for the verification seal prevents adjustment of the meter calibration and a lead stamping plug for a security seal prevents adjustment of the gas-separation test valve.

Transac T10 Control:

The control console has a shared indicator for price, twelve driveway-flowmeter-selector switches, authorise button, paid button, emergency stop button, and an individual-pump stop button. Lights on the console indicate the operational status of each driveway flowmeter. A lead stamping plug for a verification seal is provided on the control console. The seal prevents the cover of the control console from being removed; a screw beneath the stamping plug is located in a captive nut on a bracket rivetted to the inside of the cover.

Integral with these self-serve system controls and monitoring facilities are other facilities which are classified as peripheral functions and which are not approved by the Commission as a part of the measuring instrument. These controls, which do not interfere with the operation of the self-serve system, are:

1. a three-position "operator-off-manager" key-operated switch;
2. an eleven-button keyboard (0 to 9, plus 00) which allows accounting and volume inventory information to be programmed into the instrument when manager function is selected by the key-operated switch. Driveway flowmeters cannot be authorised when the manager function is selected; deliveries taking place will not be affected by the selection of the manager function;
3. three buttons marked "G1", "G2" and "G3" (grade of petrol selection) which allow the grades of petrol dispensed from the various driveway flowmeters to be programmed into the instrument;
4. four mode buttons which allow the operator or the manager to obtain accounting or inventory information appropriate to the function selected.



Handwritten signature
NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 5/6A/67 *see*

VARIATION No 1 *best*

Pattern: Gilbarco Driveway Flowmeter — Transac T10 Self-serve System

Submittor: Gilbarco Australia Ltd,
16-34 Talavera Road,
North Ryde, New South Wales, 2113.

Date of Approval of Variation: 4 September 1978

The modification described in this Schedule applies to the patterns described in Technical Schedule No 5/6A/67 dated 19 May 1978.

All instruments conforming to this approval shall be marked "NSC No 5/6A/67"; the approval number shall be marked on each driveway flowmeter and on the control console.

Description:

The approved modification provides for a single Trimline driveway flowmeter Model Tl66XG (see Figure 14), comprising the components listed in Figure 15. The driveway flowmeter is for the delivery of petrol, kerosene or diesel fuel at flow rates between 15 and 90 litres per minute. The driveway-flowmeter data plate is marked "approved for petrol", or "approved for kerosene", or "approved for diesel fuel".* The hydraulic diagram is illustrated in Figure 16.

The pump interlock is provided by a starting lever which prevents the nozzle being placed on its hang-up bracket without stopping the pump motor and engaging an interlock which prevents the pump motor being restarted until the computer is reset to zero (see Figure 9). A lead stamping plug for the verification seal prevents adjustment of the meter calibration and a lead stamping plug for a security seal prevents adjustment of the gas-separation test valve.

A Gilbarco DK 01057-001 pulse transmitter may be fitted on the quantity and/or price drive shaft of the Veeder-Root VR 101

* A known trade name or abbreviation of the name of the liquid is acceptable.

computer. The output from the pulse transmitter may be used to provide data to peripheral devices which are not a part of the measuring instrument*. These devices, which may only be provided with the authorisation of the Weights and Measures Authority of the State, may, for example, print receipts or store and process the data, etc. The use of such peripheral equipment will not affect the operation of the driveway flowmeter.

* Devices which determine and indicate the value of a physical quantity, devices which calculate price and in the presence of the purchaser or vendor indicate price, devices which control the measurement and devices which record the value of a physical quantity or price in the presence of the purchaser only or the vendor only are a part of the measuring instrument which requires approval by the Commission.



5/6A/67
17/4/86

NATIONAL STANDARDS COMMISSION

CANCELLATION CERTIFICATE OF APPROVAL No 5/6A/67

This is to certify that the approval for use for trade granted in respect of the pattern and variant of the

Gilbarco Driveway Flowmeter - Transac T10 Self-serve System

submitted by Gilbarco Aust. Ltd
12-38 Talavera Road
North Ryde NSW 2113

has been cancelled in respect of new instruments as from 31/3/86.

Instruments which were verified before that date may, with the concurrence of the respective State or Territorial Weights and Measures Authority, be submitted for reverification.

Instruments marked 5/6A/67 but which comply with NSC approval No 5/6A/63 may be remarked 5/6A/63 at their next verification.

Signed

Acting Executive Director

NOTE

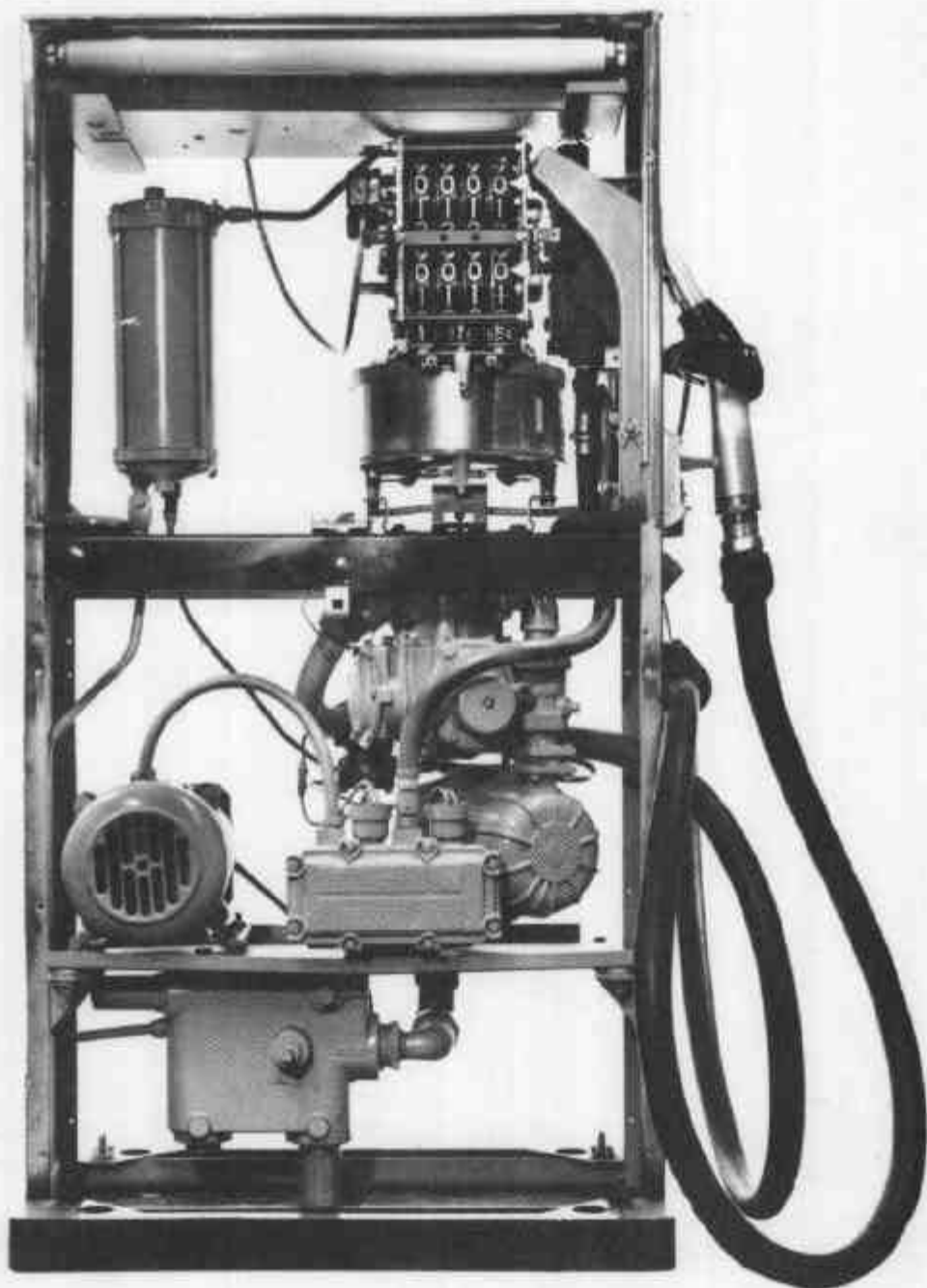
Certificate of Approval No 5/6A/67 and its Technical Schedule are now incorporated in Certificate of Approval No 5/6A/63.



Technical Editor

Dated: 21 April 1982

FIGURE 5/6A/67 - 14



Gilbarco T166XG

30/11/78

FIGURE 5/6A/67 - 15

1	2	3
	Component	Driveway flowmeter Model T166XG
	Pump, Gilbarco T258AL	*
	Gas separator, Gilbarco T257AK	*
	Float chamber, Gilbarco T257AD	*
	Non-return valve, Gilbarco T260AH	*
	Meter, Gilbarco T262AJ	*
	Back-pressure valve, Gilbarco DK 00660-003	*
	Sight glass, Gilbarco T261AD	*
	Flow-control valve, Gilbarco DR 00929-001	*
	Pilot valve (main flow), Gilbarco AN 20475-15	*
	Pilot valve (slow-flow), Gilbarco AN 20475-15	*
	Gas-separation test valve, Gilbarco T166-0170	*
	Final filter	†
	Nozzle, STM 363	A
	Nozzle, STM 377	A
	Nozzle, T250H	A
	Nozzle, OPW IAS	A
	Nozzle, ZVA Slimline	A
	Nozzle, ZVA 25	A
	Nozzle, EMCO 200A	A
	Computer, VR 101	*
	Pulse transmitter unit, Gilbarco DK 01057-001	*
	Electric reset unit	*
	Pump interlock — starting lever	*
	Data plate — "approved for petrol"	B
	Data plate — "approved for kerosene"	B
	Data plate — "approved for diesel fuel" ¹	B

* - indicates required component

A - indicates alternative component, one of which is required

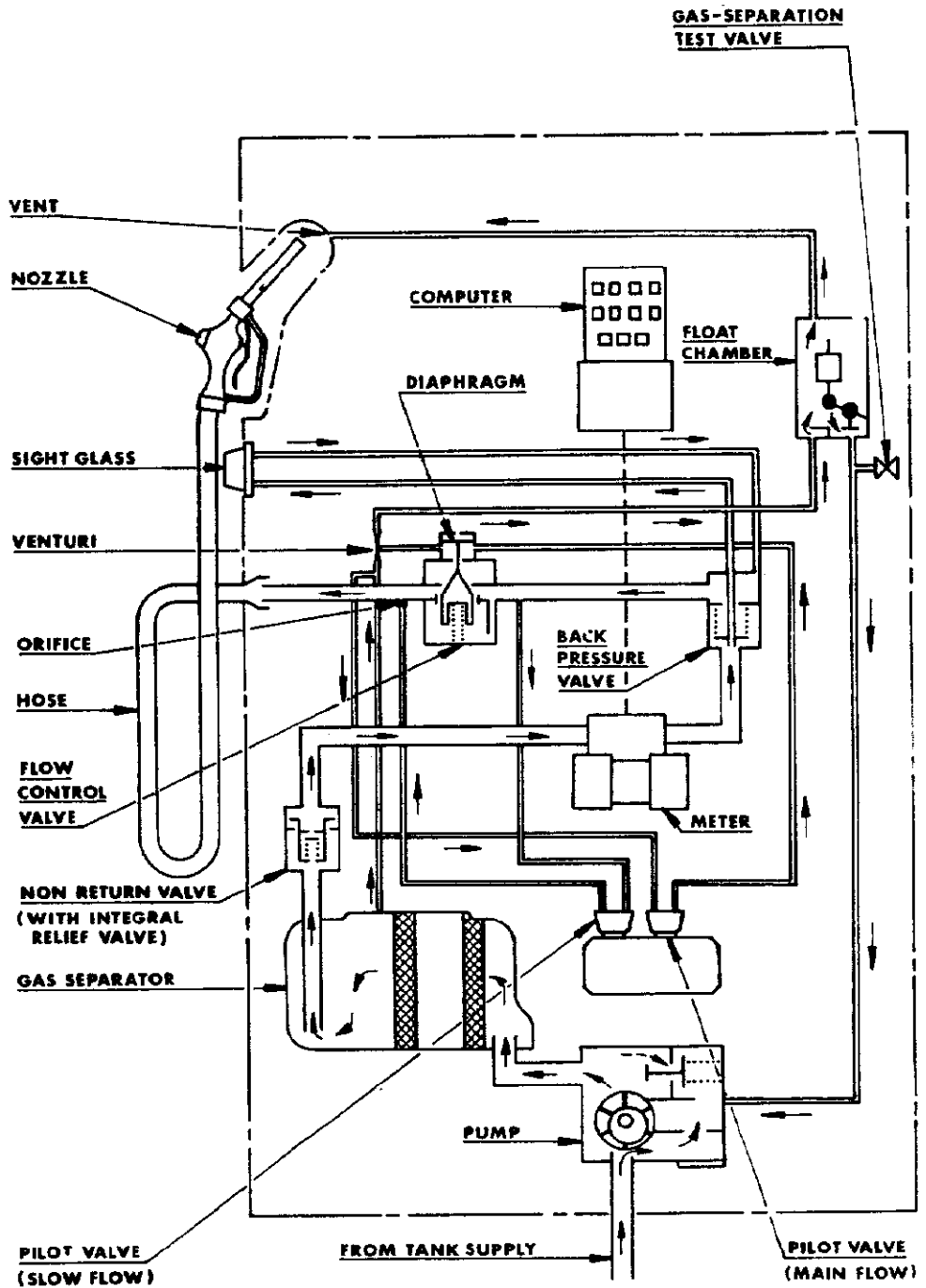
B - as for A

† - indicates optional component

Footnote: ¹ A known trade name or abbreviation of the name of the liquid is acceptable.

Compatibility Table

FIGURE 5/6A/67 - 16



Gilbarco T166XG — Hydraulic Diagram