

CERTIFICATE OF APPROVAL No 5/6A/66

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This is to certify that the patterns of the

Gilbarco Driveway Flowmeter Models T166X and Others

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

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

Date of Approval: 2 March 1977

The patterns are described in Technical Schedule No 5/6A/66, and in
drawings and specifications lodged with the Commission.

The approval is subject to review on or after 1 January 1982.

All instruments conforming to this approval shall be marked with the
approval number "NSC No 5/6A/66".

Signed


Executive Officer



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NATIONAL STANDARDS COMMISSION

cert no 2

TECHNICAL SCHEDULE No 5/6A/66

Pattern: Gilbarco Driveway Flowmeter Models Tl66X and Others

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

Date of Approval: 2 March 1977

All instruments conforming to this approval shall be marked "NSC No 5/6A/66".

Description:

The pattern (see Figures 2 and 3) is a Gilbarco Trimline Single Driveway Flowmeter Model Tl66X, comprising the components listed in Figure 1. The instrument is for the delivery of petrol 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 diesel fuel"*. The hydraulic diagram is illustrated in Figure 4.

The pump interlock of the 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 Figure 5). A bracket prevents the starting lever being lifted up beyond its "on" position (see Figure 6). 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. The following nozzles may be used:

1. STM 363 automatic hose nozzle
2. T250H manual hose nozzle
3. OPW 1A automatic hose nozzle
4. ZVA Slimline automatic hose nozzle
5. EMCO 200A automatic hose nozzle
6. ZVA 25 automatic hose nozzle (see Figure 7)

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

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The approval includes:

1. the nozzle being an OPW IAN 32-mm hose nozzle (see Figure 8) with the nozzle hang-up as illustrated in Figures 9 and 10. This instrument is known as a Gilbarco Single Trimline Driveway Flowmeter Model Tl66XA;
2. a Gilbarco Tl73-0037 pulse transmitter on the quantity and/or price drive shafts of the Veeder-Root VR 101 computer. The output from the pulse transmitter(s) 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.

Special Tests:

Gas-separation Test Valve — The gas-separation test valve should be opened progressively to allow the flow rate to be reduced to, say, 90%, 80%, 70%, etc., of full flow rate, until below the minimum of 15 litres per minute or until the flow stops due to the pump losing prime. Prior to reaching the opening of the gas-separation test valve at which the flow rate is less than 15 litres per minute, or the delivery stops due to the pump losing prime, the effect of the admitted air on the accuracy of measurement should not exceed 0,5% of the quantity delivered.

* The measuring instrument examined and approved by the Commission is limited to those devices which determine the value of a physical quantity, control the measurement, and indicate the result of the measurement on a non-permanent visual display, for example, a seven-segment indicator or Veeder-Root computer.

FIGURE 5/6A/66 - 1

1	2	3	
	Component	Flowmeters	
		T 1 6 6 X	T 1 6 6 X A
	Pump T258AC Gas separator T257AK Float chamber T257AD Meter T262AJ Computer VR 101 Flow-control valve DR 00929 Non-return valve T260AH Back-pressure valve DK 00660-001 Sight glass T261AD Nozzle STM 363 Nozzle T250H Nozzle OPW 1A Nozzle ZVA Slimline Nozzle EMCO 200A Nozzle ZVA 25 Nozzle OPW 1AN 32-mm Final filter Electric reset unit Pump interlock - starting lever Pump interlock - starting lever (large nozzle) Gas-separation test valve T166-0170 Data plate - "approved for petrol" Data plate - "approved for diesel fuel" ¹	* * * * * * * * * * A A A A A A † * * * * B B	* * * * * * * * * * * * * * † * * * * B B

* - indicates required component

A - indicates alternative components, one of which is required

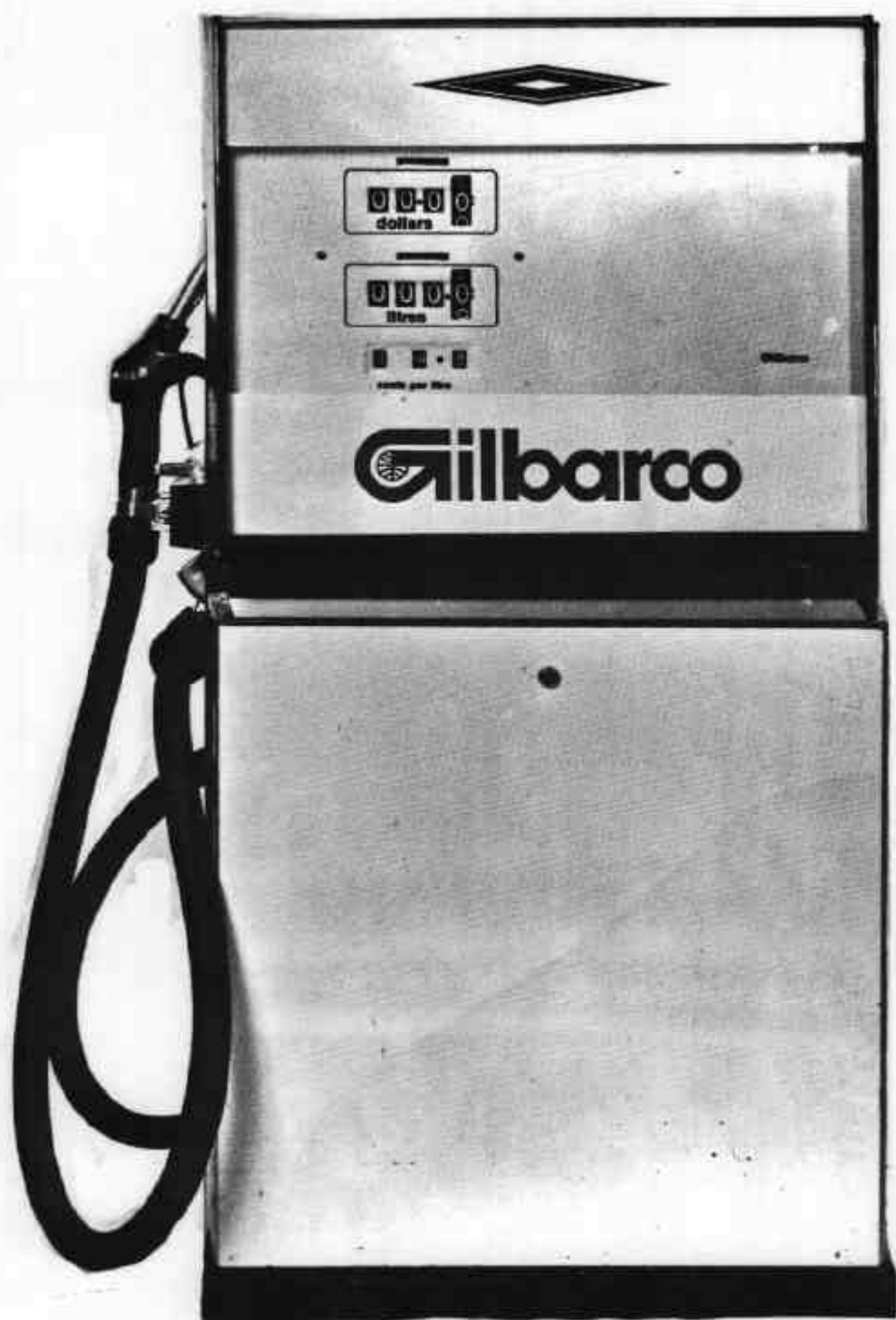
B - as for A

† - indicates optional component

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

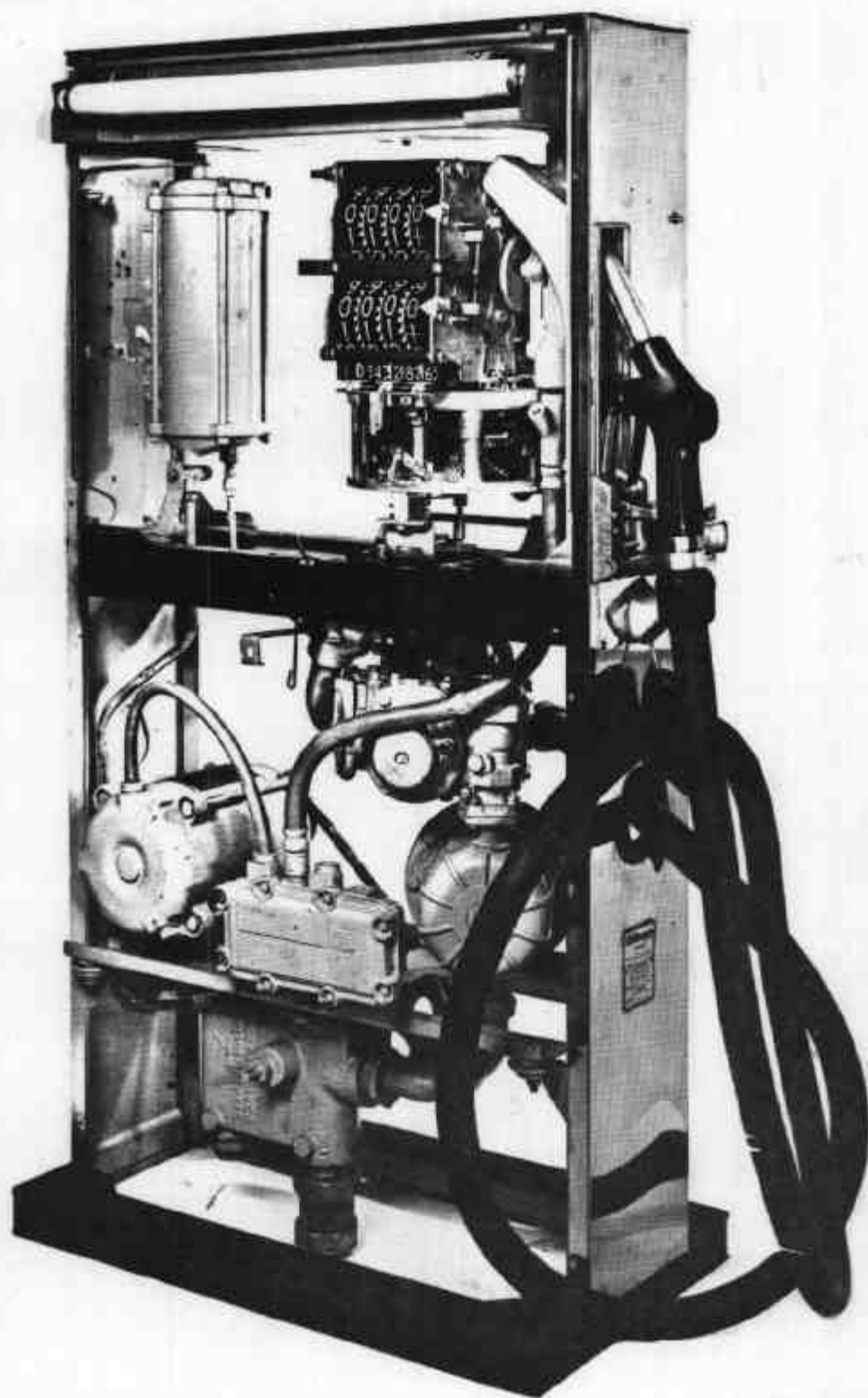
Compatibility Table

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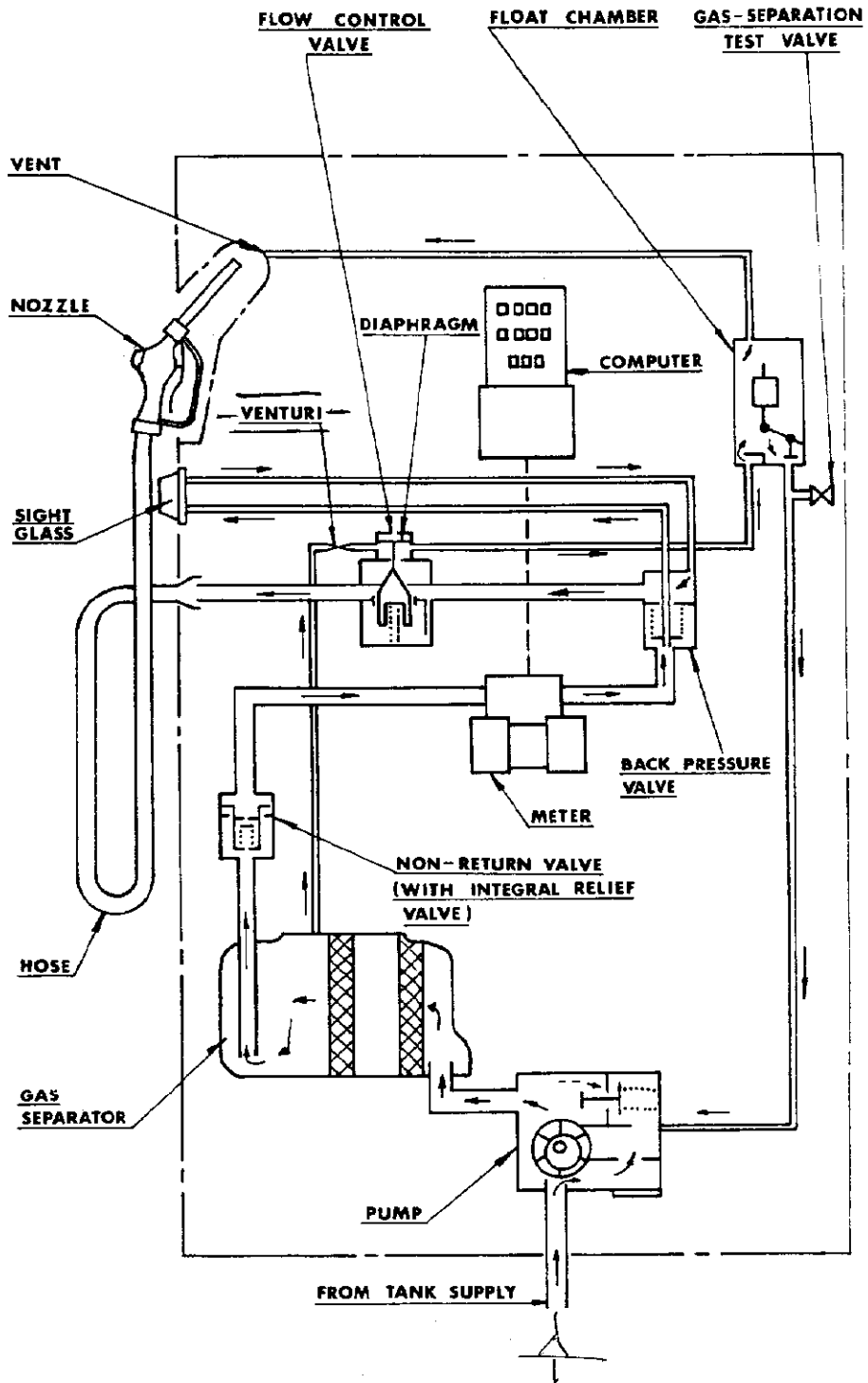


Gilbarco TL66X

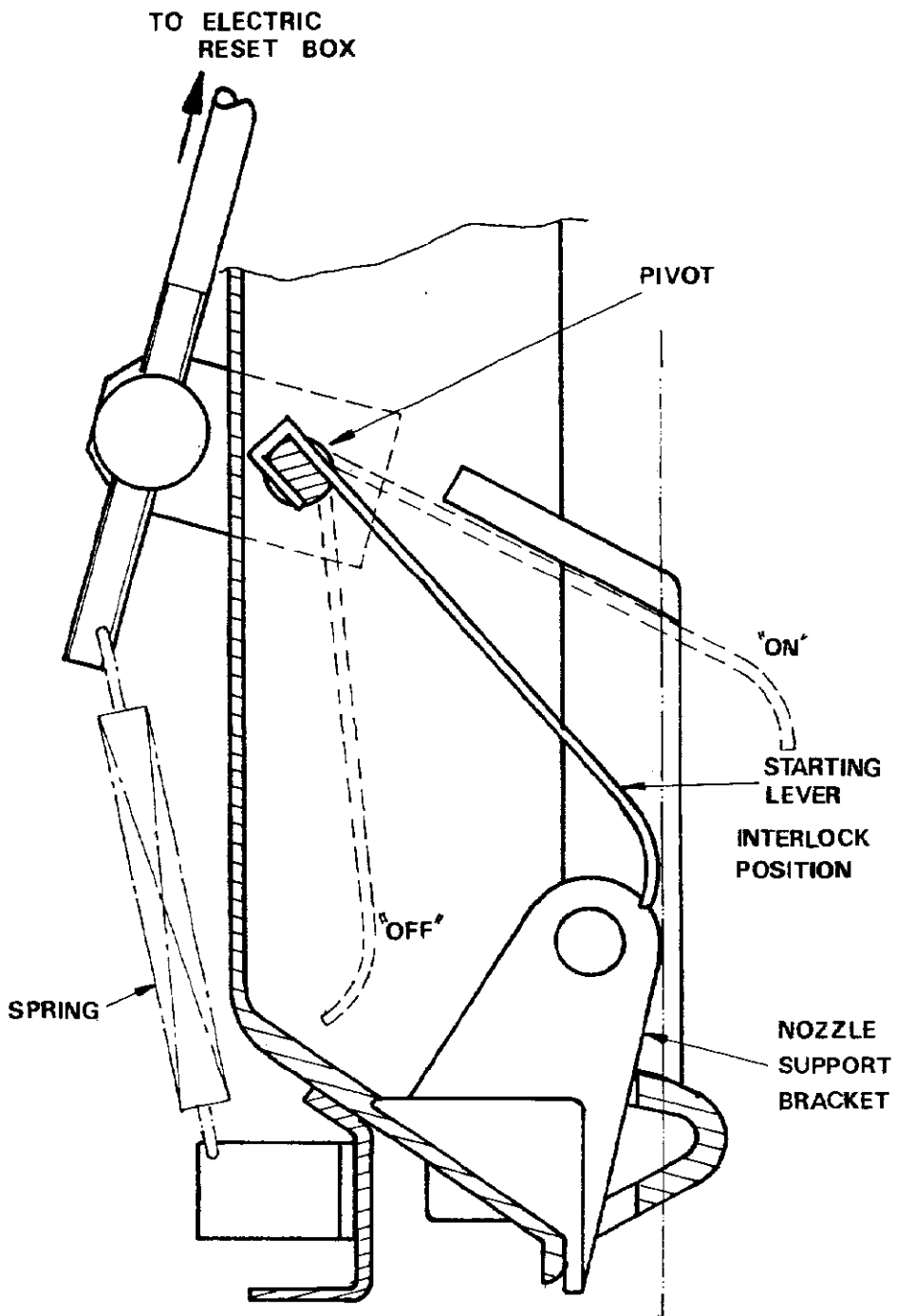
FIGURE 5/6A/66 - 3



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Gilbarco Tl66X — Hydraulic Diagram



Gilbarco T166X — Nozzle Hang-up

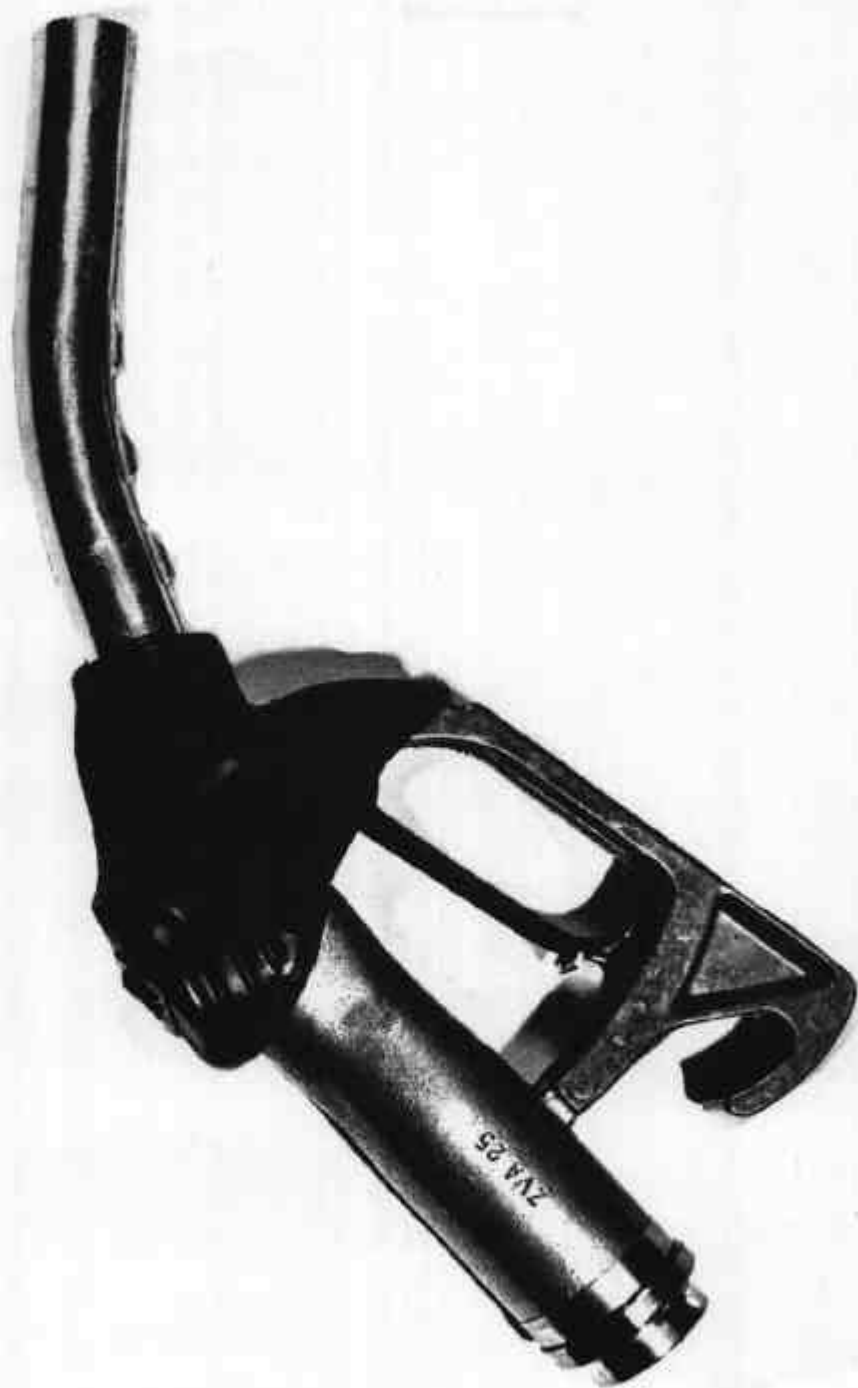
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Gilbarco T166X — Nozzle Hang-up Bracket

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FIGURE 5/6A/66 - 7



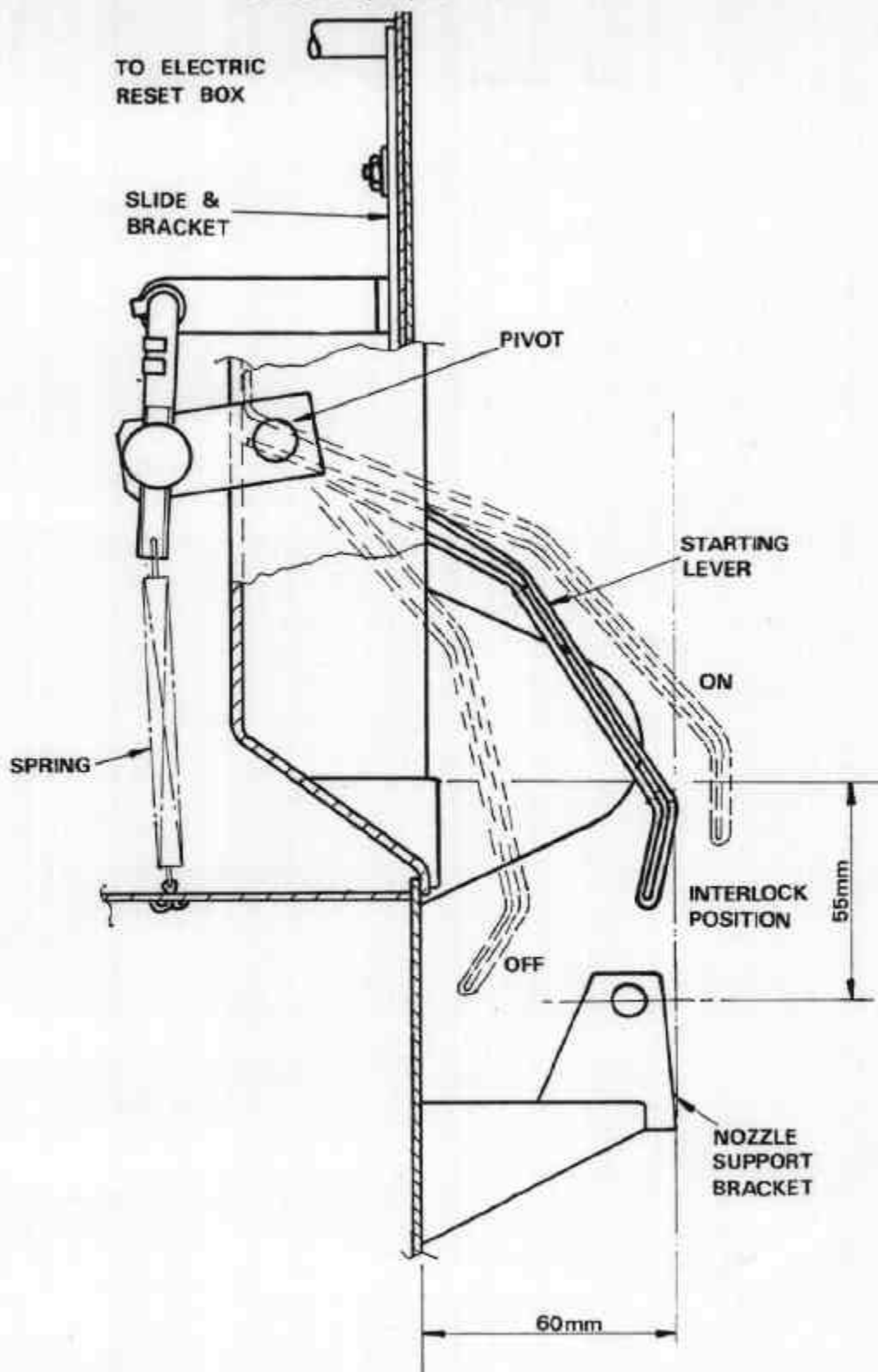
ZVA 25 Automatic Hose Nozzle

FIGURE 5/6A/66 - 8



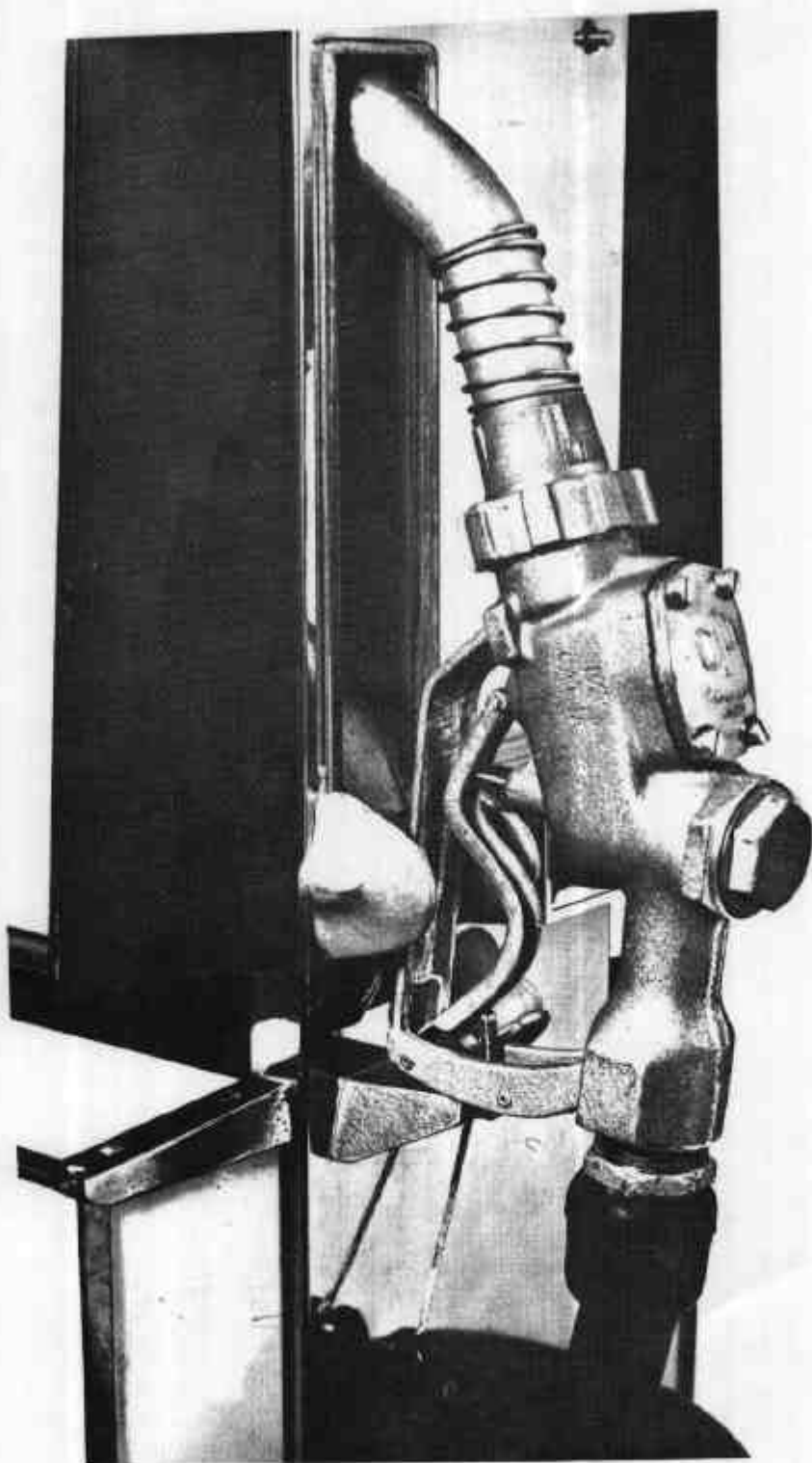
OPW 1AN Automatic Hose Nozzle

FIGURE 5/6A/66 - 9



Gilbarco T166XA — Nozzle Hang-up

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Gilbarco T166XA — Nozzle Hang-up

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