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CERTIFICATE OF APPROVAL No 5/6A/47

VARIATION No 2

CANCELLED 0 /2

This is to certify that the following modification of the patterns of the

Gilbarco Driveway Flowmeter Transac Self-serve System

ap, oved in Certificate No 5/6A/47 dated 31 March 1977 and subsequent variation

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: 23 May 1978.

The approved modification, described in Technical Schedule No 5/6A/47 -Variation No 2 and in drawings and specifications lodged with the Commission, provides for an IG8 D 10 gear-driven pulse transmitter from the quantity or price drive shaft of the computer in each approved driveway flowmeter model.

The approval is subject to review on or after 1 June 1981.

All instruments conforming to this approval shall be marked with the approval number "NSC No 5/6A/47".

Signed

Philip Anting Executive Officer



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NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 5/6A/47

Pattern: Gilbarco Driveway Flowmeter — Transac Self-serve System

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

Dates of Approval: 11 May 1976, 25 June 1976, 14 December 1976 and 2 March 1977

This Technical Schedule replaces Technical Schedule No 5/6A/47 dated 11 June 1976, which is hereby cancelled.*

All instruments conforming to this approval shall be marked "NSC No 5/6A/47"; the approval number will be marked on each driveway flowmeter and on the control console.

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The pattern is a post-payment self-serve driveway flowmeter system comprising up to twelve driveway flowmeters, control equipment and a remotely located control console (see Figures 3 to 5). The system provides the operator with supervisory control over each driveway flowmeter and a repeat indication of the price indicated by each driveway flowmeter.

Driveway Flowmeters:

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

- (a) Single Trimline Models T166S and T166T (see Figures 7 and 8);
 - (b) Dual Trimline Models T167M and T167N (see Figures 9 and 10);
 - (c) Single Round Models T180F and T180G (see Figures 11 and 12);
 - (d) Blending Trimline Models T169C and T169D (see Figures 13 and 14);
- * Figures 5/6A/47 3, 4, 5 and 7 to 16 dated 11 June 1976 form a part of this document and should be retained. The text of Technical Schedule No 5/6A/47 and Figures 5/6A/47 -1, 2, 6 and 17 to 19 dated 11 June 1976 may be filed for

reference in regard to existing instruments.

Technical Schedule No 5/6A/47

(e) Single Trimline Models T166AE and T166AF (see Figure 17); (f) Dual Trimline Models T167AE and T167AF (see Figure 18): Single Round Models T180AE and T180AF (see Figure 19); (g) (h) Dual Round Models T181AE and T181AF (see Figure 20); (i) Single Trimline Models T171AE and T171AF (see Figure 21); (i)Dual Trimline Models T172AE and T172AF (see Figure 22): Single Round Models T183D and T183E (see Figure 23); (k) (1)Dual Round Models T184D and T184E (see Figure 24). Each driveway flowmeter is for the delivery of petrol at flow rates between 15 and 60 litres per minute. The instrument data plate of each driveway flowmeter is marked "approved for petrol". (a) Single Trimline Models T166Y and T166Z (see Figure 25): (b) Single Trimline Models T166YA and T166ZA (see Figure 26). 1.1871.00 Each driveway flowmeter is for the delivery of petrol or diesel fuel at flow rates between 15 and 90 litres per minute. The instrument data plate of each driveway flowmeter is either

marked "approved for petrol" or "approved for diesel fuel".* The Single Trimline driveway flowmeters Models Tl66YA and Tl66ZA are fitted with an OPW 1AN 32-mm automatic hose nozzle only (see Figures 27 and 28).

The component parts of the driveway flowmeters are listed in Figures 1, 2, 6, 29 and 42.

The hydraulic diagrams of the driveway flowmeters are illustrated in Figures 15, 16, 30 and 31.

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 32 to 37). A bracket prevents the starting lever being lifted up beyond its "on" position (see Figures 38 and 39).

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

31/3/77

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Transac Control:

The control console, which may be a Transac I or Transac II (see Figures 3 and 4), has up to twelve sets of display and authorise buttons — one set for each driveway flowmeter — a shared indicator of price only or quantity only (Transac I) or price and quantity (Transac II), and an emergency stop button. A lead stamping plug for a verification seal is provided on the control console; the seal does not prevent access to the control console.

Pressing an authorise button permits the computer in the appropriate driveway flowmeter to be reset to zero and the pump motor to start when the customer removes the nozzle from its hang-up.

On completion of the delivery, returning the nozzle to its hangup will engage interlocks which will prevent the computer being reset to zero until the supervisor at the completion of the transaction again authorises the use of the driveway flowmeter.* During each delivery, or at the end of a delivery, the supervisor may, by pressing the appropriate display button, display the quantity and/or price indicated on the driveway flowmeter computer.

The associated control equipment for each four driveway flowmeters is within a service module, together with switches which select "console-off-manual" modes of operation. When manual mode of operation is selected for a driveway flowmeter, an operator can use that driveway flowmeter without use of the authorise button on the control console. In manual mode the quantity and/or price data will still be provided to the control console.

The failure of any of the driveway flowmeters in the system or the failure of the remote control console does not affect the operation of the other separately verified parts of the system, that is, in the event of a driveway flowmeter becoming unserviceable it may be isolated partially by selecting "manual" mode of operation or totally by selecting "off", and in the event of a control console failure the control console can be isolated from the driveway flowmeter by selecting "manual" mode of operation for

* As the remote indicator is not provided with data from a secure or fail-safe system, and as there is no remote indication for the use of the purchaser, the primary indications displayed by the driveway flowmeter must be retained until the transaction is completed, thus allowing a comparison between the primary driveway flowmeter indications of quantity and/or price accepted by the purchaser and the remote indicator.

31/3/77

all driveway flowmeters and allowing them to be operator-used.*

The approval includes:

 Each driveway flowmeter as an individually approved measuring instrument with or without the output from the pulse transmitter(s) or with or without the data indicated on the control console being transmitted 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.

- 2. A "final filter" unit fitted on the side of the cabinet upstream of the hose or fitted between the hose and the nozzle.
- 3. A ZVA 25 automatic hose nozzle (see Figures 40 and 41).

Special Tests:

Transac System

The following test procedure will ensure that the Transac system is operating in accordance with the approved design:

- Select "manual" mode of operation for each driveway flowmeter. The mode-selector switches are located within the service modules.
- 2. Carry out the tests which are normally applied to a driveway flowmeter.
- * Separate verification seals are provided on each driveway flowmeter and on the control console, allowing individual seals to be cancelled in the event of an unserviceability without affecting the remainder of the system or the other driveway flowmeters.
- ** The measuring instrument examined and approved by the Commission is limited to the 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.

31/3/77

Technical Schedule No 5/6A/47

- 3. Select "console" mode of operation for each driveway flowmeter.
- 4. At the control console press the test button and check that all of the seven-bar digit indicators indicate the numeral 8.
- 5. Authorise all the driveway flowmeters by pressing the authorise button for each driveway flowmeter.
- 6. For each driveway flowmeter -
 - (a) deliver sufficient liquid to cause the price and quantity indicators on the computer to move significantly off zero;
 - (b) stop the pump motor by returning the nozzle to its hang-up bracket;
 - (c) record the pump number and the quantity and price indicated on the computer; and
 - (d) remove each nozzle from its hang-up bracket and check that the computer does not reset to zero and the pump motor does not start.
- 7. At the control console press the display button for each driveway flowmeter in turn and check each displayed quantity, price, or quantity and price, against the quantity and price recorded for each driveway flowmeter (refer paragraph 6 (c) above).

The indicated price may differ from that indicated on the driveway flowmeter dial face if the price on the dial face is between graduations; the maximum difference will be not more than the rounding error, a maximum of 0,5 graduation, plus a discrimination error of 0,1 graduation, that is, 0,4 cent may be rounded up to a whole cent or 0,6 cent may be rounded down to the lower whole cent.

- 8. Check for one driveway flowmeter that -
 - (a) operation of the "emergency stop" during a delivery causes the pump motor to stop and that the "emergency stop" does not fully release until -
 - (i) every nozzle has been returned to its hang-up position, including those being used on driveway flowmeters in manual mode of operation, and

31/3/77

Technical Schedule No 5/6A/47

- (ii) all display buttons on the keyboard are released to the up position;
- (b) after an emergency stop a driveway flowmeter cannot be reauthorised until the interrupted transaction is displayed.
- Note: All transactions taking place at the time of use of the emergency stop must be terminated, as deliveries from driveway flowmeters on console mode cannot be restarted without resetting all of the driveway flowmeter indicators to zero.
- 9. If it is desired to isolate a driveway flowmeter from the Transac system during the above tests in order to allow the service station to continue functioning, the particular driveway flowmeter can be isolated from the Transac system by switching it to manual mode. Alternatively, during tests other than the "emergency stop", half, say, of the driveway flowmeters can be tested at a time, while the other half remain in the normal console mode of operation.

Gas-separation Test Valve

(a) For integral pump:

The progressive opening of the gas-separation test valve should allow the flow rate to be reduced to, say, 90%, 80%, 70%, etc., of full flow rate, until either the flow rate becomes less than the minimum of 15 litres per minute or the flow stops due to the pump losing prime. For all tests 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.

- (b) For submerged turbine pump:
 - 1. Check the accuracy of delivery and record the actual error.
 - 2. Stop the submerged turbine pump by returning all driveway flowmeter nozzles to their hang-up.
 - Open the pump by-pass valve (see Figure 47).
 - 4. Close the impact valve.

31/3/77 (page replaced 20/2/79)

- 5. Connect the compressed air hose to the test value at the driveway flowmeter and purge the delivery pipe of liquid observing the sight glass in the by-pass pipe.
- 6. Disconnect the compressed air hose and close the by-pass valve.
- 7. Open the impact valve.
- 8. Start the driveway flowmeter and repeat the accuracy test of Step 1. The amount delivered should be within 0,5% of the amount recorded in Step 1. (It should be noted that, when the nozzle valve is opened, no liquid will be delivered until the air in the delivery pipe is purged by the gas separator.)

31/3/77 (New page 26/2/79)



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 5/6A/47 VARIATION No 1

Pattern: Gilbarco Driveway Flowmeter Transac Self-serve System

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

Dates of Approval of Variation: 9 November 1977, 7 February 1978

The modifications described in this Schedule apply to the patterns described in Technical Schedule No 5/6A/47 dated 31 March 1977.

All instruments conforming to this approval shall be marked "NSC No 5/6A/47"; the approval number shall be marked on each driveway flowmeter and on the control console.

Description:

The approved modifications provide for:

- an STM 377 automatic hose nozzle (see Figures 43 and 44). The anti-drain valve which is upstream of the main valve retains a pressure of not less than 15 kPa. A swivel hose coupling may be fitted to the nozzle;
- 2. an OPW 1AS automatic hose nozzle (see Figures 45 and 46). The anti-drain valve which is downstream of the main valve retains a pressure of not less than 15 kPa. A swivel hose coupling may be fitted to the nozzle.



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 5/6A/47

VARIATION NO. 2

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Pattern: Gilbarco Driveway Flowmeter Transac Self-serve System

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

Date of Approval of Variation: 23 May 1978.

The modification described in this Schedule applies to the patterns described in Technical Schedule No 5/6A/47 dated 31 March 1977 and Technical Schedule No 5/6A/47 - Variation No 1 dated 15 March 1978.

All instruments conforming to this approval shall be marked "NSC No 5/6A/47".

Description:

The approved modification provides for a Model IG8 D 10 geardriven pulse transmitter driven from the quantity or price drive shaft of the computer in each of the approved driveway flowmeter models when these instruments are not installed as a part of a self-serve system.

The output from the pulse transmitter may be used to provide data to peripheral devices which are not a part of the measuring instrument in use for trade. Such devices, which may, for example, print the volume or store and process the data, etc., may only be used with the authorisation of the Weights and Measures Authority of the State.



NATIONAL STANDARDS COMMISSION

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 5/6A/47

CHANGE No 1

The description of the

Gilbarco Driveway Flowmeter - Transac Self-serve System

given in Technical Schedule No 5/6A/47 dated 31 March 1977 is altered by:

replacing pages 5 and 6, adding new page 7, and adding Figure $5/6\Lambda/47 - 47$

1	2	3					
Identi-		Driveway Flowmeters					
No	Components	т 1	Т 1	Т 1	Т 1	Т 1	т 1
		6 6	6 6	8 0	8 0	6 7	6 7
	· · · · · · · · · · · · · · · · · · ·	S	T	F	G	M	N
	Pump T258GD	*	*	*	*	*	*
	Float chamber T257AC			*	*		
	Float chamber T257R Meter T262Y	*	*	*	*	*	*
	Meter T262T Computer - VR 101, litres	*	*	*	*	*	* *
	Non-return valve T260Y	*	*			*	*
	Non-return valve 12602 Sight glass T261X	*	*	Ŷ	Â	*	*
	Sight glass T261AC Back-pressure valve T162-6	*	*	*	*	*	*
	Hose 19-mm bore	*	* †	* †	* †	* †	* †
	Nozzle STM 363	A	A	A	A	A	A
	Nozzle T250H Nozzle OPW 1A	A	A A	A	A	A	A
	Nozzle EMCO 200A Nozzle ZVA Slimline	A A	A A	A A	A A	A A	A A
	Nozzle Z VA 25 Final filter	A †	A t	A †	A †	A †	A T
	Data plate - "approved for petrol"	*	*	*	*	*	*
	Pump interlock - starting lever Electric reset unit	*	*	*	*	*	*
	Pulse transmitter unit T173-0037 on computer quantity and/or price shaft	*	*	*	*	*	*
	Service module	*	*	*	*	*	*
	Concross console fransac i of fi						

* - indicates required component

A - indicates alternative components, one of which is required

† - indicates optional components

Footnotes: 1. The nozzle operating lever latch mechanism may be removed to allow nozzle to comply with requirements of other Statutory Authorities

> Driveway flowmeters Models T166T, T180G and T167N have only one pulse transmitter unit fitted

FIGURE 5/6A/47 - 2

1	2		3			
Identi- fication	Components	Blending Driveway Flowmeters				
NO		T169C	T169D			
	Pump T258GE (2 off)	*	*			
	Gas-separation test valve T166-0170	*	*			
	Float chamber T257S (2 off)	*	*			
	Non-return valve T260AC (2 off)	*	*			
	Meter T262AB (2 off)	*	•*			
	Computer VR 1649, litres	A	A			
	Computer VR 7525, litres	A	A			
	Blend-control valve T169-0034	*	*			
	Back-pressure valve T142-0024 (2 off)	*	*			
	Hose outlet T160-0009	*	*			
	Sight glass T261X (2 off)	*	*			
	Concentric hoses	*	*			
	Nozzle STM 363	В	В			
	Nozzle T250H	В	В			
	Nozzle OPW 1A	В	В			
	Nozzle ZVA Slimline	В	В			
	Nozzle ZVA 25.	В	В			
	Nozzle EMCO 200A	В	В			
	Data plate - "approved for petrol"	*	*			
	Pump interlock - starting lever	*	*			
	Electric reset unit	*	*			
	Pulse transmitter unit T173-0037, toothed belt drive from computer quantity and/or price shaft	*	*			
	Service module	*	*			
	Control console Transac I or II	*	*			

* - indicates required component

A - indicates alternative components, one of which is required

B - as for A

t - indicates optional component

Footnotes: 1. The nozzle operating lever latch mechanism may be removed to allow the nozzle to comply with the requirements of other Statutory Authorities

 Driveway flowmeter Model T169D has only one pulse transmitter unit fitted





Control Console Transac II



Service Module

1/6/76

FIGURE 5/6A/47 - 5

FIGURE 5/6A/47 - 6

1	2	3							
Identi-		Driveway Flowmeters							
fication No	Components	Т	Т	Т	Ţ	T	T	T	Т
			I	L	L	1	l		1
		h (6	С О	Č A	0	0 7		с 1
		6	0		U A		,		1
		Ē	F	E	F	Ē	F	Ē	F
		*	*	*	*	*	*	*	ž
	Flast showbor T2574C	*	*	*			*	*	*
	Motor T2624K	*	*	*	**			*	*
	Meter T267AI					*	*		
1	Computer VB 101	*	*	*	*	*	*	*	*
	Non-return valve T260AF	*	*	*	*	*	sir.	24	*
	Back-pressure Valve DK00 660-001	*	*	*	*	×	57	*	*
	Sight glass T261AC			*	*			*	*
	Sight glass T261AD	*	*			*	*		
	Nozzle STM 363	A	А	A	A	Α	Α	A	A
	Nozzle T250H	A	Α	A	A	A	А	A	Α
i l	Nozzle OPW lA	A	Α	A	A	A	А	A	А
	Nozzle ZVA Slimline		Α	A	A	A	A	A	A
	Nozzle ZVA 25	A	Α	A	A	A	A	A	A
	Nozzle EMCO 200A	A	A	A	A	Α	A	A	A
	Electric reset unit	*	*	*	*	74	*	*	*
	Pump interlock - starting lever	*	*	×	*	*	*	*	*
Ļ į	Gas-separation test valve T166-0170	*	*	×	*	*	*	*	*
	Data plate - "approved for petrol"	*	*	*	*	÷.	*	*	*
	Final filter	1 1	t			Ť	Т		
	Pulse transmitter unit T173-0037 on computer quantity and/or price shaft	*	*	ak.	*	*	*	*	*
	Service module	*	*	*	*	*	*	*	*
	Control console Transac I and II	*	*	*	*	*	*	*	*

* - indicates required component

A - indicates alternative components, one of which is required \uparrow - indicates optional component

Footnotes: 1. The mozzle operating lever latch mechanism may be removed to allow the nozzle to comply with the requirements of other Statutory Authorities

2. Driveway flowmeters Models T166AE, T180AE, T167AE and T181AE nave only one pulse transmitter unit fitted

FIGURE 5/6A/4'1 - 1

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Gilbarco T166S (2 Pulse Transmitters fitted) or T166T (1 Pulse Transmitter fitted) 11/6/76



5/38/47-9



Gilbarco T166S



Gilbarco T167M (2 Pulse Transmitters fitted) or T167N (1 Pulse Transmitter fitted)



Gilbarco T 167M



Gilbarco T180F (2 Pulse Transmitters fitted) or T1803 (1 Pulse Transmitter fitted)

11/6/76

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FIGURE 5/6A/47 - 12



Gilbarco T180F

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Gilbarco T169C (2 Pulse Transmitters fitted) or T169D (1 Pulse Transmitter fitted)

FIGURE 5/6A/47 - 14



Gilbarco T169C

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Hydraulic Diagram of Gilbarco T166S, T166T, T180F, T180G and of each Driveway Flowmeter in T167M and T167N



Hydraulic Diagram of Gilbarco T169C and T169D





Gilbarco T167AE (1 pulse transmitter fitted)





Gilbarco T180AF (2 pulse transmitters fitted)



Gilbarco T181AF (2 pulse transmitters fitted)

FIGURE 5/6A/47 - 21



Gilbarco T171AF (2 pulse transmitters fitted)

FIGURE 5/6A/47 - 22

ILLUSTRATION TO BE FORWARDED

Gilbarco T172AE/AF Driveway Flowmeter







Gilbarco T166Z (1 pulse transmitter fitted)





Gilbarco T166ZA (1 pulse transmitter fitted)





1	2	3							
Identi-	Components	Driveway Flowmeters							
No	Components	ר ר ו	T l	Т 1	т 1	T 1	Τ 1	'1' 1	Т 1
		. 7	7		8	7	7	8	8
		1	1	3	3	2	2	4	4
		A	A	D	E	A	A	D	E
		E	F			£	Ł		
	Submerged turbing pump assembly	*	*	*	*	*	*	*	*
	Non-return valve DK 00492-001	*	**	*	*	*	*	*	*
	Gas-separation system T257AH	î.	*	*	*	*	ж.	*	*
	Meter T262Y	*	*	*	· *				
	Meter T262T					*	*	*	*
	Computer VR 101	*	*	*	*	*	*	*	*
	Back-pressure valve T162-6	*	*	*	*	*	*	*	*
	Signt glass T261X	*	*			*	*		1
	Sight glass T261AC			*	*			*	57
	Nozzle STM 363	А	A	A	A	A	A	А	A
	Nozzle T250H	A	A	A	A	A	٨	А	A
	Nozzle OPW 1A	A	A	A	A	A	Δ	А	А
	Nozzle ZVA Slimline	A	A	A	A	A	А	A	A
	Nozzle ZVA 25	A	A	A	A	A	A	A	A
	Nozzle EMCO 200A	A	A	A	A	A	A	А	A
	Final filter	1	Ť	1	Ť		Г	ĩ	T
	Electric reset unit	*	*	*	*	*	*	*	*
	Pump interlock - starting lever	*	*	*	*	$\dot{\mathbf{x}}$	*	*	*
	Gas-separation test valve T040-0068	*	74	*	*	*	*	*	*
	Data plate - "approved for petrol"	*	*	*	*	*	*	57	*
	Pulse transmitter unit Ti73-0037 on computer quantity and/or price shafts	*	*	*	*	*	*	*	*
	Service module	*	*	*	*	*	*	*	*
	Control console Transac \vec{f} or II	÷.	*	*	×	*	*	*	*

* - indicates required component

A - indicates alternative components, one of which is required

† - indicates optional component

Footnotes: 1. The nozzle operating lever latch mechanism may be removed to allow the nozzle to comply with the requirements of other Statutory Authorities

2. Driveway flowmeters Models Tl71AE, Tl83E, Tl72AE and Tl84E have only one pulse transmitter unit fitted

Compatibility Table

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FIGURE 5/6A/47 - 30



Hydraulic Diagram of Gilbarco T171AE, T171AF, T183D, T183E and of each Driveway Flowmeter in T172AE, T172AF, T184D and T184E

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Hydraulic Diagram of Gilbarco T166Y, T166YA, T166Z and T166ZA



Hang-up for Gilbarco Drivewsy Flowmeter Models T166S, T166T, T166Y, T166Z, T166AE, T166AF, T171AE and T171AF



Hang-up for Gilbarco Driveway Flowmeter Models T167M, T167N, T167AE, T167AF, T172AE and T172AF 31/3/77



Hang-up for Gilbarco Driveway Flowmeter Models T180F, T180G, T180AE, T180AF, T183D and T183E

FIGURE 5/6A/47 - 35



Hang-up for Gilbarco Driveway Flowmeter Models T169C and T169D





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T166YA and T166ZA







Nozzle Hang-up — Gilbarco Driveway Flowmeter using 32-mm Nozzle (OFW 1AN)



And the second sec ATTITUDE SHUT-OFF CONTROL AIR TUBE <u>MAIN AND</u> ANTI-DRAIN VALVE OPERATING LEVER ዳ SWIVEL HOSE COUPLING

FIGURE 5/6A/47 - 42

1	2	3					
Identi-			eters				
fication	Components	т	, Т	т	т		
No		i	l i	1	ĩ		
		6	6	6	6		
]		6	6	6	6		
		Y	Y	z	z		
			A		Ā		
	Ритр Т258АС	*	*	~	*		
	Gas separator T257AK	*	*	*	*		
	Float chamber T257AD	*	*	*	*		
	Meter T262AJ	*	*	*	*		
	Computer VR 101	*	*	*	*		
	Flow-control valve DR 00929	52	*	*	*		
	Non-return valve T260AH	*	*	*	*		
	Back-pressure valve DK 00660-001	*	*	*	*		
	Signt glass T261AD	*	*	*	*		
	Nozzle STM 363	A		A	ł		
	Nozzle T250H	A		A	1 1		
	Nozzle OPW 1A	Α		A			
	Nozzle ZVA Slimline	Α		A			
	Nozzle ZVA 25	A		A			
	Nozzle EMCO 200A	A		A			
	Nozzle OPW lAN 32-mm		*		*		
	Final filter	1	t	Ť	T		
	Electric reset unit	*	*	*	*		
	Pump interlock - starting lever	*		*			
	Pump interlock - starting lever (OPW lAN nozzle)		*		74		
	Gas-separation test valve T166-0170	*	*	*	*		
	Data plate - "approved for petrol"	В	В	В	В		
	Data plate - "approved for diesel fuel"	В	В	В	В		
 	Pulse-transmitter unit T173-0037 on	*	*	*	*		
	computer quantity and/or price shaft						
	Service module	*	*	*	*		
	Control console Transac I or II	*	*	*	*		

* - indicates required component

A - indicates alternative components, one of which is required

- † indicates optional component
- B as for A
- Footnotes: 1. A known trade name or abbreviation of the name of the liquid is acceptable on the data plate
 - 2. The nozzle operating lever latch mechanism may be removed to allow the nozzle to comply with the requirements of other Statutory Authorities
 - 3. Driveway flowmeters Models T1662 and T1662A have only one pulse transmitter unit fitted

Compatibility Table



ANTI-DRAIN VALVE ATTITUDE VALVE MAIN VALVE DIAPHRAGM **AIR TUBE**

STM 377 Automatic Hose Nozzle - Schematic Diagram







OPW lAS Automatic Hose Nozzle - Schematic Diagram

FIGURE 5/6A/47 - 46

FIGURE 5/6A/47 - 47



Submerged Turbine System - Hydraulic Diagram of the Installation