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5/6B/76
18/2/88

NATIONAL STANDARDS COMMISSION

NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 5/6B/76

This is to certify that an approval for use for trade has been granted in respect of the pattern of the

Khrone/Altometer Model Deltaflux Sullage Flowmetering System

submitted by Warringah Shire Council
Civic Centre
Pittwater Road
Dee Why NSW 2099.

CONDITIONS OF APPROVAL

General:

This approval is subject to review on or after 1/10/92.
This approval expires in respect of new instruments on 1/10/93.

Instruments purporting to comply with this approval shall be marked NSC No 5/6B/76.

This approval may be withdrawn if instruments are constructed other than in accordance with the drawings and specifications lodged with the Commission.

Special:

The Commission reserves the right to examine any instrument purporting to comply with this approval.

Signed

J. Burch.

Executive Director

Descriptive Advice

Pattern: approved 16/9/87

- Khrone/Altometer model Deltaflux sullage flowmetering system.

Technical Schedule No 5/6B/76 describes the pattern.

Filing Advice

The documentation for this approval now comprises:

Certificate of Approval No 5/6B/76 dated 18/2/88
Technical Schedule No 5/6B/76 dated 18/2/88 (including Test Procedure)
Figures 1 to 3 dated 18/2/88

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 5/6B/76

Pattern: Khrone/Altometer Model Deltaflux Sullage Flowmetering System.

Submittor: Warringah Shire Council
Civic Centre
Pittwater Road
Dee Why NSW 2099.

1. Description of Pattern

A vehicle-mounted flowmetering system using a Khrone/Altometer model Deltaflux electronic flowmeter (Figure 1) which is approved only for use as a sullage meter and with a maximum flow rate of 500 L/min.

1.1 Components

The system (Figure 2) comprises:

(a) A Khrone/Altometer model Deltaflux electromagnetic flowmeter with a DEF200 50 mm primary head and a separate model F200 signal converter (Figure 1).

(b) An indicator/totaliser containing two independent Veeder-Root electronic displays in a single housing (Figure 3).

(c) A priming valve.

(d) A centrifugal pump and priming chamber.

(e) A road tanker.

1.2 Operating Method

The operating method of the system is as follows:

1. Start engine and engage power take-off.
2. Hook up to service (supply).
3. Open priming valve.
4. Set engine revolutions.
5. Observe meter and set indicator to zero when suction starts.
6. Close priming valve.
7. When flow ceases:
   (a) read meter and record reading on customer docket;
   (b) reduce engine revolutions; and
   (c) disengage power take-off.
8. Disconnect hose, move to next service and repeat procedure.

1.3 Markings

Instruments are marked with the following data, together on one or more permanently attached nameplates:

Manufacturer's name or mark	
Meter model	Deltaflux
Serial number	
NSC approval number	NSC No 5/6B/76
Maximum flow rate	500 L/min
Type of liquid for which meter is verified	Sullage

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1.4 Verification Provision

Provision shall be made for a verification mark to be applied.

TEST PROCEDURE No 5/6B/76

The submittor shall provide a testing facility for periodic recalibration of the instruments using the operating procedure in the Technical Schedule.

Note: As the instrument accuracy depends to some extent on the operator control, no negative maximum permissible error is specified, i.e. the meter shall not read greater than the volume delivered by more than 2%, but may read less than the volume delivered.

G.H.

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National Standards Commission

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 5/6B/76

CHANGE No 1

The following changes are made to the approval documentation for the Khrone/Altometer Model Deltaflux Sullage Flowmetering System

submitted by Warringah Shire Council
Civic Centre
Pittwater Road
Dee Why NSW 2099.

In Technical Schedule No 5/6B/76 both dated 18/2/88:

(i) Amend clause 1.2 Operating Method by altering item 5 to read:

"Set indicator to zero before flow through meter starts."

(ii) Replace the Test Procedure with the following:

"Instruments should be tested in accordance with any relevant tests specified in the Inspector's Handbook.

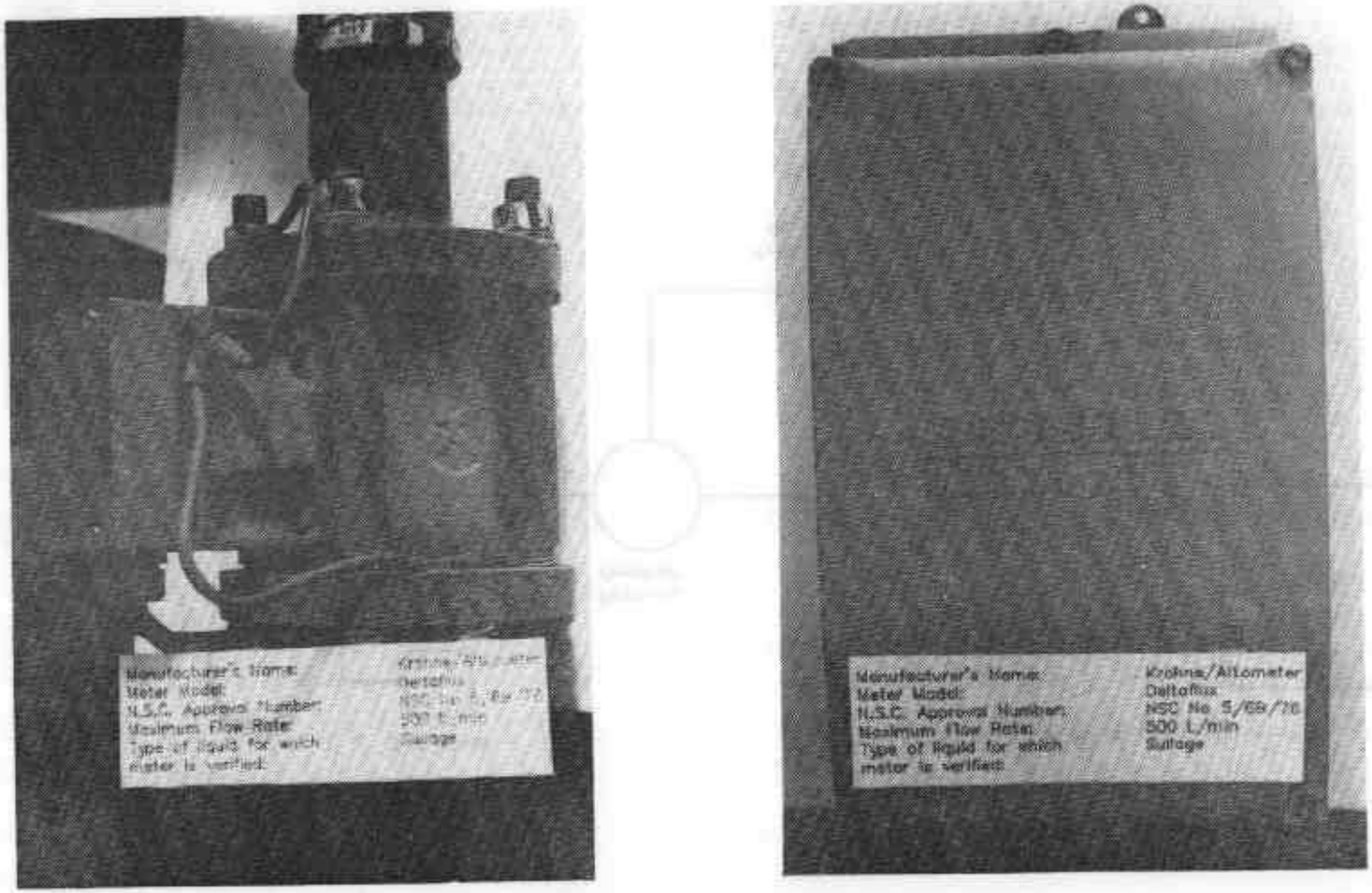
Maximum Permissible Errors at Verification/Certification

The maximum permissible error applicable is ±2%."

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.

J. Burch

FIGURE 5/68/76 - 1



Showing Meter And Signal Converter

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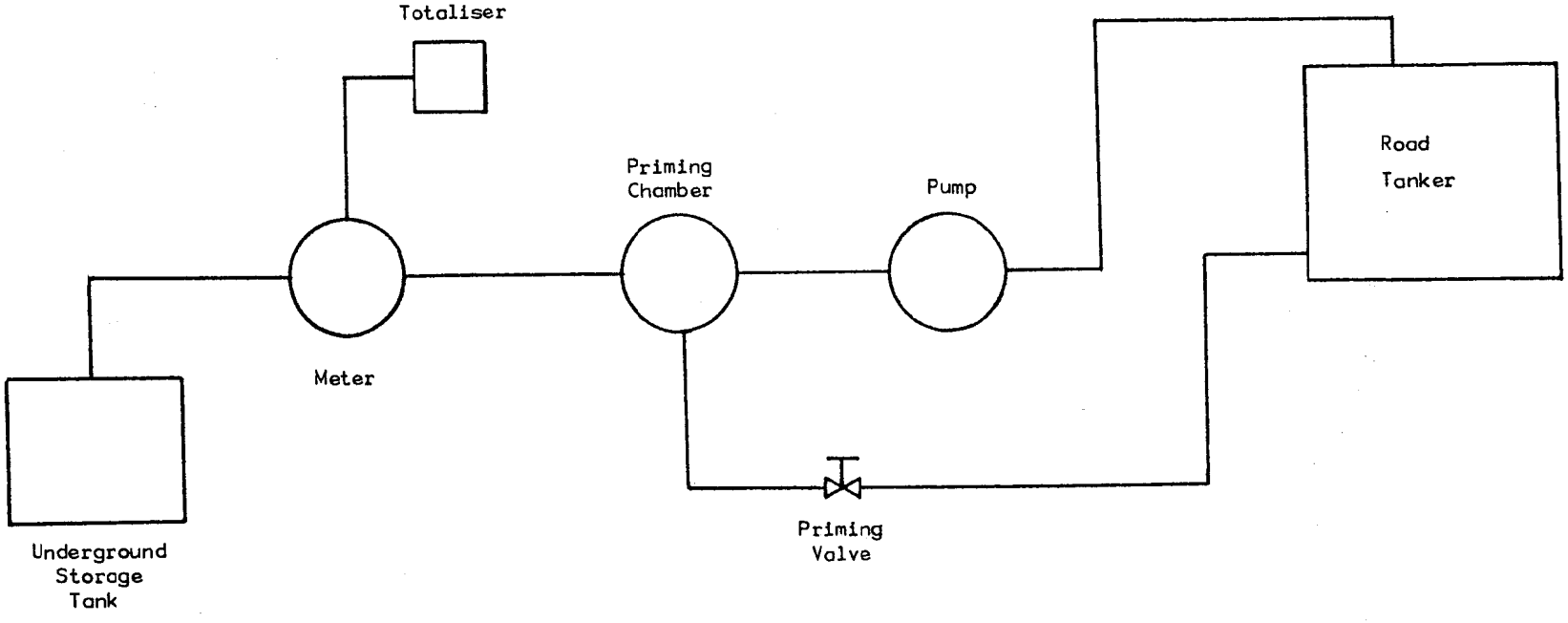
FIGURE 5/6B/76 - 2



Schematic Diagram Of A Typical System

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FIGURE 5/6B/76 - 3

Indicator/Totaliser