

5/6A/200
25 May 2000



National Standards Commission

12 Lyonpark Road, North Ryde NSW

Cancellation Certificate of Approval No 5/6A/200

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

Pegrin Model T180 Driveway Flowmeter

submitted by Pauls Petroleum Services Pty Ltd
16 Arkley Street
Bankstown NSW 2200

has been cancelled in respect of new instruments as from 1 June 2000.

Instruments which were verified/certified before that date may, with the concurrence of the relevant verifying authority, be submitted for reverification.

Signed by a person authorised under Regulation 63 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.

National Standards Commission



Certificate of Approval

No 5/6A/200

Issued under Regulation 9
of the
National Measurement (Patterns of Measuring Instruments) Regulations

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

Pegrin Model T180 Driveway Flowmeter

submitted by Pauls Petroleum Services Pty Ltd
16 Arkley Street
Bankstown NSW 2200.

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 April 1998, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No5/6A/200 and only by persons authorised by the submitter.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate No S1/0/A.

It is the submittor's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the Commission and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with the Commission's Document 106.

The Commission reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

DESCRIPTIVE ADVICE

Pattern: approved 21 April 1997

- A Pegrin model T180 driveway flowmeter approved for use over a flow rate range of 15 to 55 L/min.

Variant: approved 21 April 1997

1. In certain other configurations.

Variant: approved 21 April 1997

2. Certain other model driveway flowmeters.

Variant: approved 21 April 1997

3. Certain other model driveway flowmeters.

Technical Schedule No 5/6A/200 describes the pattern and variants 1 to 3.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 5/6A/200 dated 19 May 1997
Technical Schedule No 5/6A/200 dated 19 May 1997 (incl. Test Procedure)
Figures 1 and 2 dated 19 May 1997

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

National Standards Commission

TECHNICAL SCHEDULE No 5/6A/200

Pattern: Pegrin Model T180 Driveway Flowmeter.

Submittor: Pauls Petroleum Services
16 Arkley Street
Bankstown NSW 2200.

1. Description of Pattern

A Pegrin model T180 driveway flowmeter (Figures 1 and 2) approved for use to dispense various grades of petrol over a flow rate range of 15 to 55 L/min, in attendant-operated, or locally or remotely-authorised applications.

1.1 Features

The model T180 has the following components or features:

- A Gilbarco type T258 pump unit with internal or external gas separator, and mounted integrally with or remotely from the flowmeter.
- A Gilbarco type T257 gas separator sump. The pump and gas separator are matched to the flow rate and products of the flowmeter.
- A Gilbarco type T262-1 2-piston meter.
- Any Gilbarco Calcopac computing indicator as described in the documentation of NSC approval No S100A.
- An optional preset facility, using a flow control valve. The instrument may be fitted with a purchaser-operated preset control or the preset facility may be set via the vendor's console.
- Any Commission-approved ZVA nozzle.

1.2 Markings

Instruments are marked with the following data, together in one location :

Manufacturer's name or mark	
Model number	
Serial number	
NSC approval number	5/6A/200
Maximum flow rate L/min
Minimum flow rate L/min
Liquid temperature range	5°C to 40°C
Maximum operating pressure kPa
Approved for use with (products)

1.3 Sealing and Verification/Certification Provision

Provision is made for the application of a verification/certification mark. The meter calibration is sealed.

2. Description of Variants

2.1 Variant 1

Other configurations as listed below:

- As dual driveway flowmeters, i.e. with 2 flowmetering systems in the same housing.
- In alternative housings.
- For use with products other than petrol (#).
- With an alternative Gilbarco meter, viz. a type T262, B series 4-piston meter, or a type T262, C series 4-piston meter, each approved for use up to 90 L/min (#).

A gas detection system is necessary for products other than petrol, and for petrol when the flow rate exceeds 55 L/min. The system comprises either a gas detection and flow control valve, or a gas detection pilot valve and flow control valve.

2.2 Variant 2

Other model Pegrin driveway flowmeters as listed below having any of the features of the pattern or variant 1:

MODEL	FEATURES
T166X	Up to 55 L/min; preset controlled by pump speed.
T091A (#)	Up to 55 L/min; preset controlled by pump speed.
T091B (#)	Up to 55 L/min; no preset facility.
T092A (#)	Up to 90 L/min; preset controlled by slow-down valves.
T092B (#)	Up to 90 L/min; no preset facility.

Note: (#) Fitted with Gilbarco Trimline-type driveway flowmeter indicator/s instead of the Calcopac indicator/s of the pattern.

2.3 Variant 3

Certain models of Pegrin driveway flowmeters as listed below having features of the pattern and variants 1 and 2, except as detailed below:

MODEL	FEATURES
T095	Single flowmeter, up to 55 L/min, petrol.
T096	Dual flowmeter, up to 55 L/min, petrol.
T097 (*)	Single flowmeter, up to 90 L/min, distillate.
T098 (*)	Dual flowmeter, up to 90 L/min, distillate.

Note: (*) Fitted with gas detector.

All these models are fitted with Gilbarco Electroline-type indicators, without preset, and with Gilbarco model T258AT pump unit with integral gas separator.

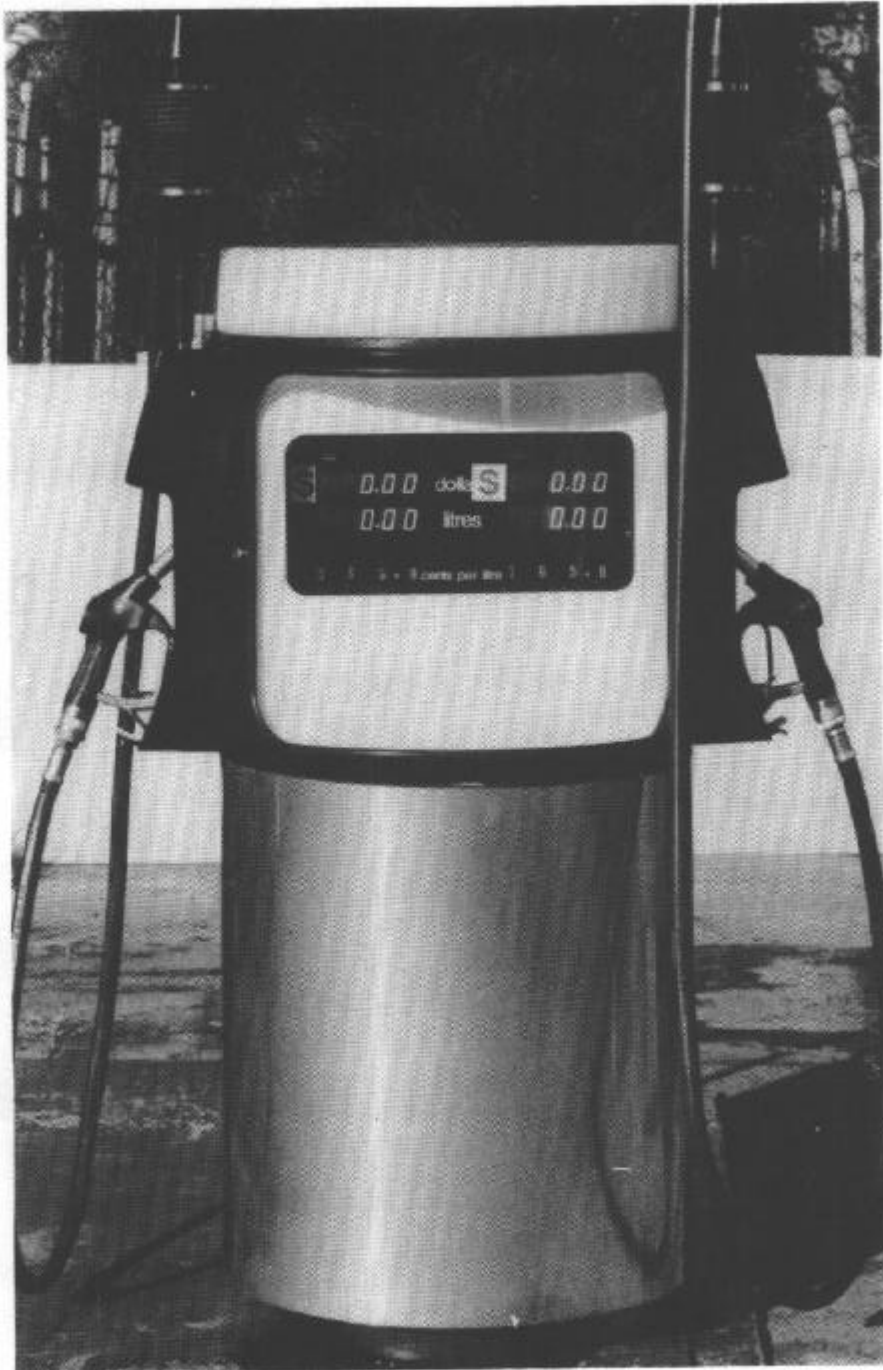
TEST PROCEDURE

Instruments should be tested in accordance with any tests included in the approval documentation for the control console (where used), and in accordance with any relevant tests specified in the Inspector's Handbook.

Maximum Permissible Errors at Verification/Certification

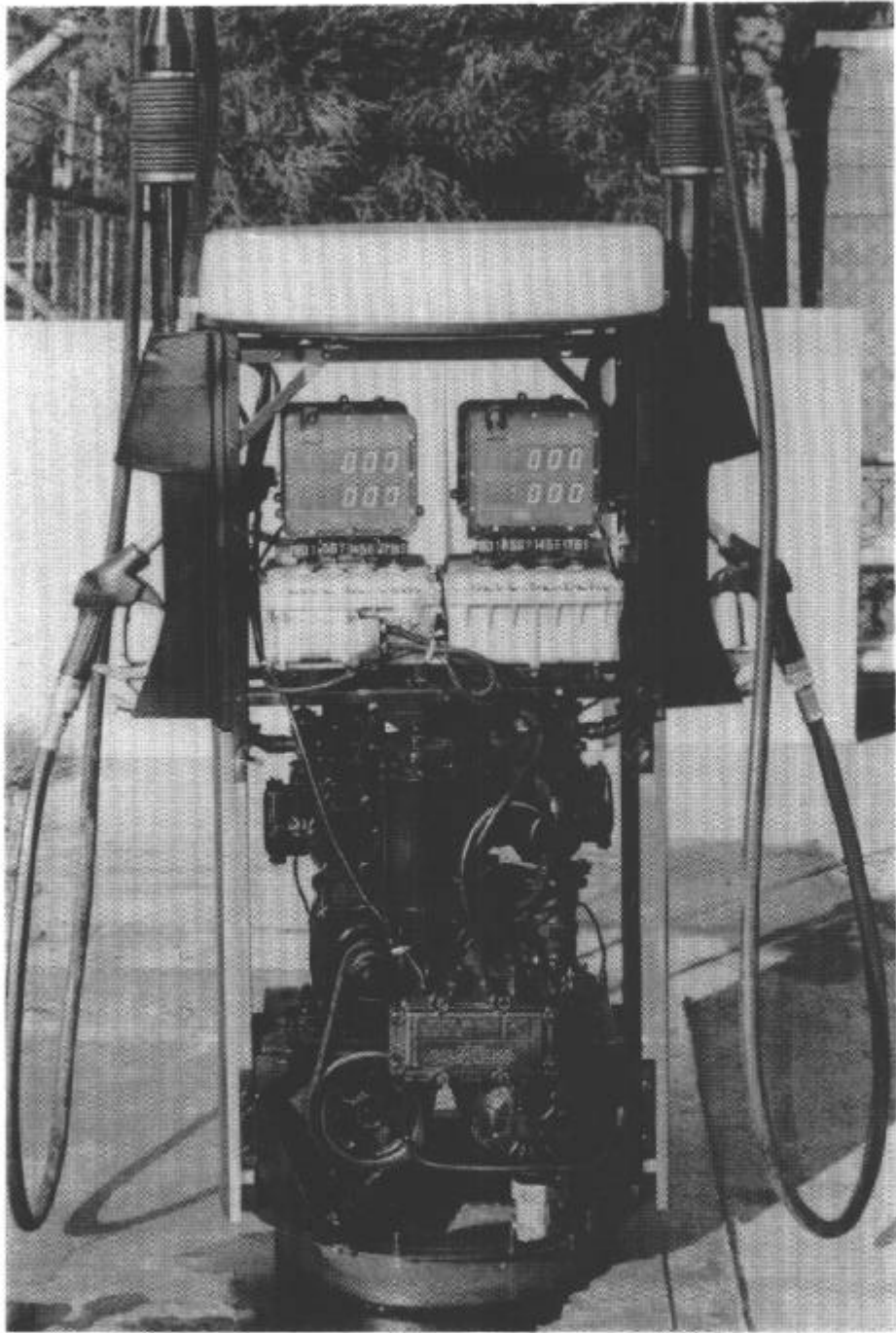
The maximum permissible error applied during a verification test from normal flow rate to the minimum flow rate specified in the Certificate of Approval or Technical Schedule is $\pm 0.3\%$.

FIGURE 5/6A/200 - 1



Pegrin Model T180 Driveway Flowmeter

FIGURE 5/6A/200 - 2



Model T180 Without Covers