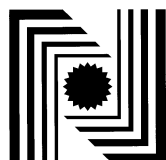
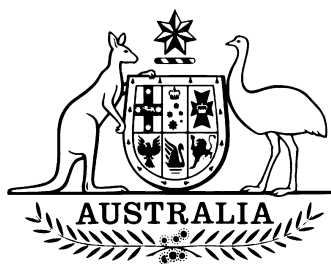


5/6A/94  
22 March 2002



## National Standards Commission

12 Lyonpark Road, North Ryde NSW

### Cancellation

### Certificate of Approval

**No 5/6A/94**

Issued under Regulation 60  
of the  
National Measurement Regulations 1999

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

Pegrin Model T180 Driveway Flowmeter

submitted by Tegrin Pty Ltd  
17 Arkley Street  
Bankstown NSW 2200

has been cancelled in respect of new instruments as from 1 April 2002.

Signed by a person authorised under Regulation 60  
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/94**

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           Tegrin Pty Ltd  
                                  (formerly submitted by Pegrin Pty Ltd)  
                                  17 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/94 and only by persons authorised by the submitter.

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

It is the submitter'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.

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

#### DESCRIPTIVE ADVICE

**Pattern:** approved 9 March 1993

- A Pegrin model T180 driveway flowmeter approved for use over a flow rate range of 15 to 55 L/min. May also be known as Tegrin model T180.

**Variants:** approved 9 March 1993

1. In certain other configurations.

Technical Schedule No 5/6A/94 describes the pattern and variant 1.

**Variants:** approved 15 May 1994

2. Certain other model driveway flowmeters.

Technical Schedule No 5/6A/94 Variation No 1 describes variant 2.

**Variants:** approved 26 February 1997

3. Certain other model driveway flowmeters.

Technical Schedule No 5/6A/94 Variation No 2 describes variant 3.

FILING ADVICE

Certificate of Approval No 5/6A/94 dated 26 August 1994 is superseded by this Certificate and may be destroyed.

The documentation for this approval now comprises:

- Certificate of Approval No 5/6A/94 dated 26 June 1997
- Technical Schedule No 5/6A/94 dated 28 May 1993 (incl. Test Procedure)
- Technical Schedule No 5/6A/94 Variation No 1 dated 26 August 1994
- Technical Schedule No 5/6A/94 Variation No 2 dated 26 June 1997 (incl. Notification of Change)
- Figures 1 and 2 dated 28 May 1993

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/94

**Pattern:** Pegrin Model T180 Driveway Flowmeter.

**Submittor:** Pegrin Pty Ltd  
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-authorized 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 Sealing and Verification/Certification Provision

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

### 1.3 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/94
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)	.....

### 2. Description of 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.

### 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  $\pm 0.3\%$ .



5/6A/94  
26 August 1994

## National Standards Commission

TECHNICAL SCHEDULE No 5/6A/94

VARIATION No 1

**Pattern:** Pegrin Model T180 Driveway Flowmeter.

**Submitter:** Pegrin Pty Ltd  
16 Arkley Street  
Bankstown NSW 2200.

### 1. Description of 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.

## National Standards Commission

### TECHNICAL SCHEDULE No 5/6A/94 VARIATION No 2

**Pattern:** Pegrin Model T180 Driveway Flowmeter.

**Submittor:** Tegrin Pty Ltd  
17 Arkley Street  
Bankstown NSW 2200.

#### 1. Description of 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:

(Note: (#) May also be known as Tegrin driveway flowmeters.)

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.

#### NOTIFICATION OF CHANGE

In Technical Schedule No 5/6A/94 dated 28 May 1993, and in its Variation No 1 dated 26 August 1994, the following changes are made:

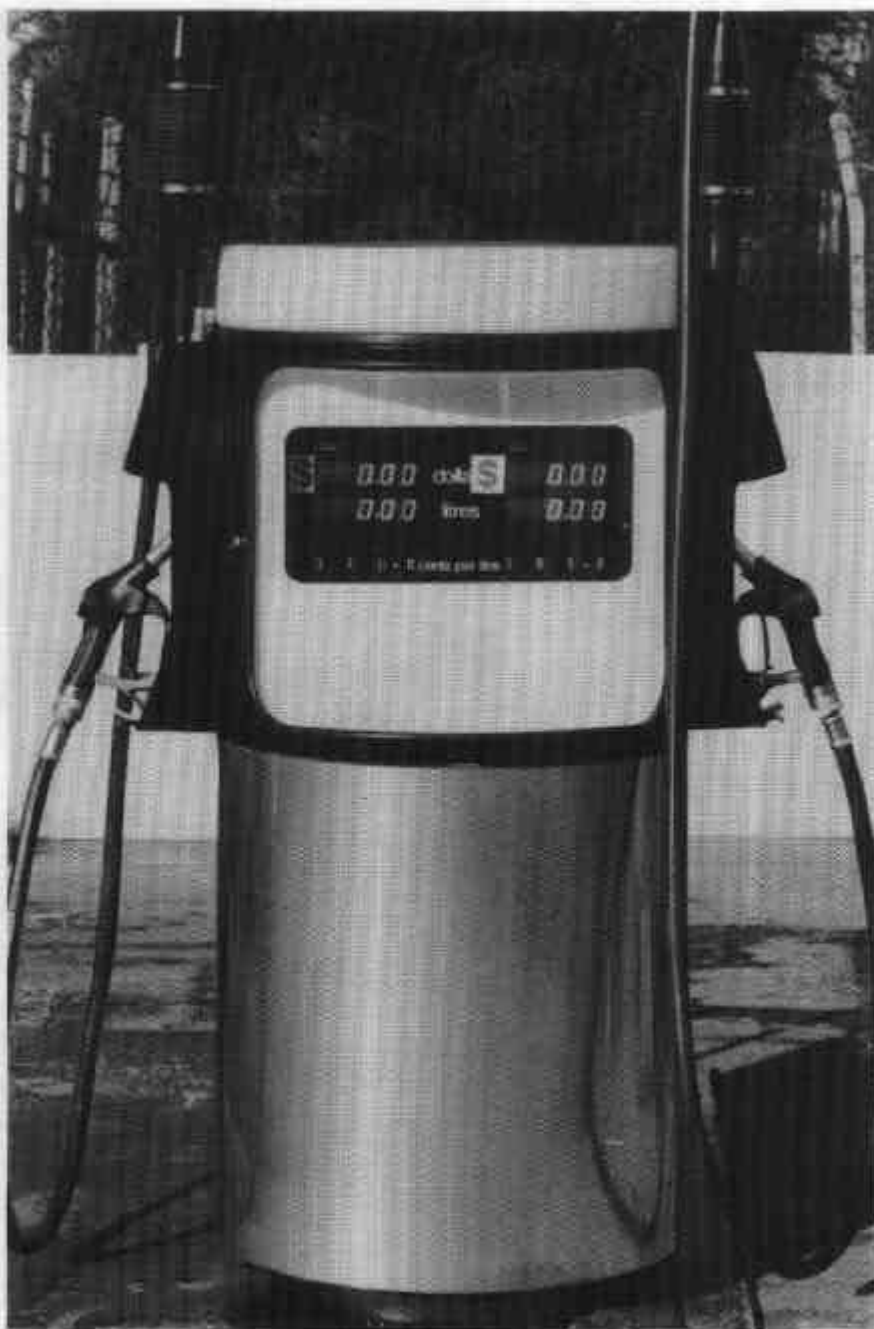
1. All references to the submitter should be amended to read:

**Submittor:** Tegrin Pty Ltd  
17 Arkley Street  
Bankstown NSW 2200.

2. All references to 'Pegrin driveway flowmeters' should be amended by adding "(May also be known as 'Tegrin driveway flowmeters')".



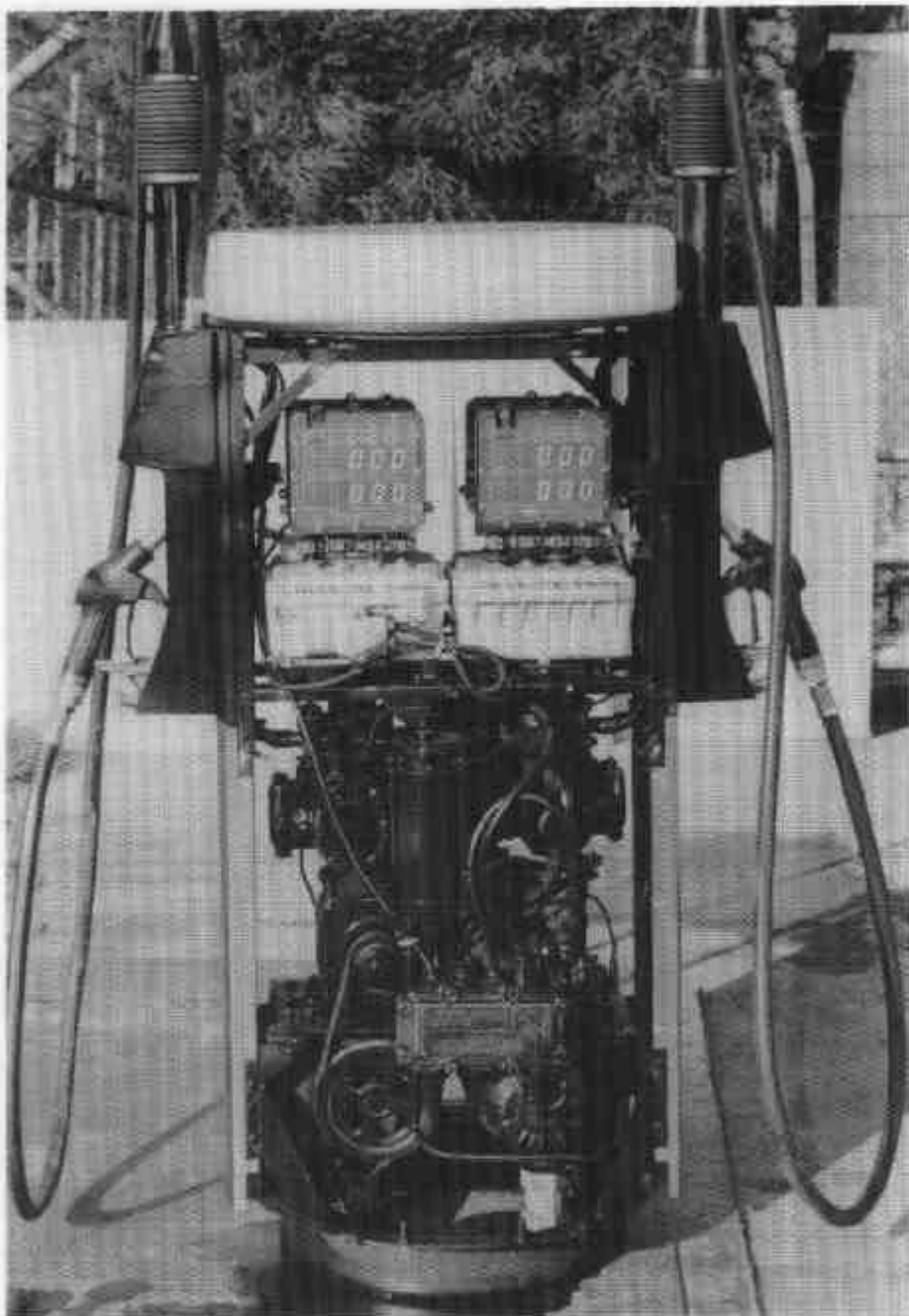
FIGURE 5/6A/94 - 1



Pegrin Model T180 Driveway Flowmeter

5/6A/94  
28/5/93

FIGURE 5/6A/94 - 2



Model T180 Without Covers