National Standards Commission

Supplementary Certificate of Approval

No S184A

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

Veeder-Root Model 788700-023 Bulk Flowmeter Indicator

submitted by V R International
163 Kingsway
Glen Waverley VIC 3150.

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.

This Certificate is issued upon completion of a review of NSC approval No S184.

CONDITIONS OF APPROVAL

This approval is subject to review on or after 1 March 2001.
This approval expires in respect of new instruments on 1 March 2002.

Instruments purporting to comply with this approval shall be marked NSC No S184A and only by persons authorised by the submittor.

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Instruments incorporating a component purporting to comply with this approval shall be marked NSC No S184A in addition to the approval number of the instrument.

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 10 February 1996

- A Veeder-Root model 788700-023 bulk flowmeter indicator.

Variant: approved 10 February 1996

1. Model 7890 indicator/printer.

Technical Schedule No S184A describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval comprises:

Supplementary Certificate of Approval No S184A dated 20 June 1996
Technical Schedule No S184A dated 20 June 1996 (incl. Test Procedure)
Figures 1 and 2 dated 20 June 1996

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 S184A

Pattern: Veeder-Root Model 788700-023 Bulk Flowmeter Indicator.

Submittor: V R International
82 Herald Street
Cheltenham VIC 3192.

1. Description of Pattern

A Veeder-Root model 788700-023 zero-start mechanical indicator for use in compatible Commission-approved flowmetering systems.

The indicator has five elements indicating volume in 1 litre increments with each element marked and numbered 0 to 9 (Figure 1). To reset the indicator to zero, the handle is rotated in the clockwise direction; a shutter covers the indicator elements until resetting is complete.

The indicator incorporates an eight digit non-resettable mechanical totaliser.

The maximum speed of rotation of the right-hand element of the indicator shall not exceed 200 rpm.

1.1 Indicator Display

Volume	Up to 99999 L in 1 L increments
Totaliser	Up to 99999999 L in 1 L increments

1.2 Markings

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

Manufacturer's name or mark
Model number
Serial number
Approval number S184A

The indicator face is marked with the notice DO NOT RESET WHILE COUNTING.

1.3 Verification/Certification Provision

Provision is made for a verification/certification mark.

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2. Description of Variant 1

The model 788700-023 indicator fitted with a model 788810-006 zero-start printer with single-handle reset mechanism, in which case it is known as a model 7890 indicator/printer or 'Duplicator' (Figure 2).

The maximum speed of rotation of the right-hand element of the indicator/printer, which uses 1 litre increments, shall not exceed 200 rpm.

TEST PROCEDURE

Instruments shall be tested in conjunction with any tests specified in the approval documentation for the instrument to which the pattern is connected, as appropriate, and in accordance with any relevant tests specified in the Inspector's Handbook.

Maximum Permissible Errors at Verification/Certification

The maximum permissible errors applicable are those applicable to the system to which the instrument approved herein is fitted, as stated in the approval documentation for the system.

FIGURE S184A - 1

Veeder-Root Model 788700-023 Indicator

FIGURE S184A - 2

Model 7890 Indicator/Printer