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CERTIFICATE OF APPROVAL No 5/6B/102

VARIATION No 1

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

Neptune 1 $\frac{1}{4}$ -inch Flowmeter

approved in Certificate No 5/6B/102 dated 28 May 1974

has been approved under the Weights and Measures (Patterns of Instruments)
Regulations as being suitable for use for trade.

Date of Approval: 11 July 1977

The approved modification provides for any type, bore or length of hose,
under the conditions pertaining to maximum pressure and minimum
delivery, described in Technical Schedule No 5/6B/102 - Variation No 1.

The approval is subject to continuing review.

All instruments conforming to this approval shall be marked with the
approval number "NSC No 5/6B/102".

Signed



Executive Officer

11/7/77



CANCELLED

NATIONAL STANDARDS COMMISSION

CERTIFICATE OF APPROVAL No 5/6B/102

Approved: Neptune $1\frac{1}{4}$ -inch Flowmeter

This is to certify that the pattern and variants of the Neptune $1\frac{1}{4}$ -inch flowmeter which have been approved or deemed to be approved by a State Weights and Measures Authority for measuring in imperial units are approved under the Weights and Measures (Patterns of Instruments) Regulations as being suitable for use for trade when converted to read in metric units in accordance with Appendix 13 of the General Specifications for Measuring Instruments to be Used for Trade.

Date of Approval: 17 May 1974

Description:

The pattern and variants may be identified by reference to any State approval document which includes $1\frac{1}{4}$ -inch, $1\frac{1}{2}$ -inch (see Figure 1), 2-inch, 3-inch or 4-inch Neptune meters, or by reference to an instrument of one of these sizes marked with a current verification stamp.

The meters are fitted with one of the following indicating devices (see Figure 2):

- Model 431 — direct reading
- Model 432 — direct reading plus auto-stop
- Model 433 — direct reading plus printer
- Model 434 — direct reading plus printer plus auto-stop

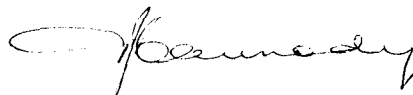
Conditions of Approval:

1. The speed of the right-hand indicator wheel and the right-hand printing wheel shall not exceed 125 rpm at the maximum flow rate for which the instrument is verified after conversion.
2. This approval is subject to review on or after 31 December 1975 to determine the extent to which the pattern and variants may need to be

modified to comply with the Commission's pattern approval requirements at the date of review.

3. All instruments conforming to this approval shall be marked "NSC No 5/6B/102".

Signed

A handwritten signature in dark ink, appearing to read "J. Kennedy", written over a horizontal line.

Executive Officer



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 5/6B/102

VARIATION No 1

Pattern: Neptune 1½-inch Flowmeter

Date of Approval of Variation: 11 July 1977

The modification described in this Schedule applies to the patterns described in Certificate No 5/6B/102 dated 28 May 1974.

All instruments conforming to this approval shall be marked "NSC No 5/6B/102".

Description:

The approved modification provides for any type, bore or length of nose, provided that:

1. the minimum delivery determined from Table 1 is marked on an instrument data plate which is sealed to the instrument by a lead stamping plug or by threading the meter sealing wire through it;
2. the minimum delivery is acceptable to the Weights and Measures Authority taking into account the usage of the instrument;
3. the pump by-pass is set so that the maximum no-flow system pressure is 480 kPa;
4. provision is made for a pressure gauge to be connected.

Special Tests:

Hose Dilation

A measure of the nose-dilation quantity may be obtained by the following method:

With the pump stopped and the nose fully wound on its reel, open the nozzle to reduce the pressure in the hose to the anti-drain valve retaining pressure of about 55 kPa. Then fully unwind the nose from the reel, zero the indicator, start the pump and, after allowing not less than 30 seconds for the nose to fully dilate, and with the pump still running, read the quantity on the indicator. This quantity is equal to the maximum hose dilation.

11/7/77

TABLE 1

Minimum delivery
marked on instrument
data plate

Maximum nose dilation

Indicator only
fitted

Indicator and
printer fitted

<i>l.</i>	<i>l.</i>	<i>l.</i>
50	0,3	-
100	0,8	0
150	1,3	0,5
200	1,8	1,0
250	2,3	1,5
300	2,8	2,0
350	3,2	2,5
400	3,8	3,0
450	4,3	3,5
500	4,8	4,0



FIGURE 1. 1 $\frac{1}{2}$ -inch Neptune Meter



Model 431



Model 432



Model 433



Model 434

FIGURE 2. Indicating Devices