

National Standards Commission



Certificate of Approval

No 6/9C/241

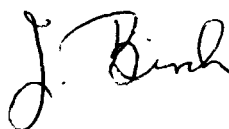
Issued under Regulation 9
of the
National Measurement (Patterns of Instruments) Regulations

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

Rose Model BTR-2 Weighing Instrument

submitted by B T & P G Rose
Box 8
Margaret River WA 6285.

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.



CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/4/96.
This approval expires in respect of new instruments on 1/4/97.

Instruments purporting to comply with this approval shall be marked NSC No 6/9C/241 and only by persons authorised by the submittor.

It is the submittor's responsibility to ensure that all instruments marked with this approval number are constructed as described in the drawings and specifications 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.

The values of the performance criteria (maximum number of scale intervals etc.) applicable to the instrument shall be within the limits specified herein and in any approval documentation for the components where they are approved separately.

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

DESCRIPTIVE ADVICE

Pattern: approved 25/3/91

A Rose model BTR-2 self-indicating weighing instrument of 14 100 kg maximum capacity and approved for use with up to 1 410 verification – scale intervals.

Technical Schedule No 6/9C/241 describes the pattern.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/9C/241 dated 13/5/91
Technical Schedule No 6/9C/241 dated 13/5/91 (incl. Test Procedure)
Figures 1 and 2 dated 13/5/91



National Standards Commission

TECHNICAL SCHEDULE No 6/9C/241

Pattern: Rose Model BTR-2 Weighing Instrument.

Submitter: B T & P G Rose
Box 8
Margaret River WA 6285.

1. Description of Pattern

A Rose model BTR-2 self-indicating weighing instrument of 14 100 kg maximum capacity and approved for use with up to 1 410 verification scale intervals.

1.1 Basework

The model BTR-2 basework has load cells which fully support the load receptor (Figures 1 and 2). The basework is positioned above ground, and permanently fixed in place, therefore it need not be fitted with a level indicator.

Mounted on the basework is a vertical stainless steel vessel (farm milk tank) of 2 500 mm nominal diameter.

1.2 Load Cells

Four Precision Transducers model LS10000 load cells of 10 000 kg capacity are used as described in the documentation of NSC approval No S224 and mounted using the "swivel foot" method as shown in Figure S224 - 4.

1.3 Indicator

An AND Mercury model AD-4322 digital indicator is used as described in the documentation of NSC approval No S250.

1.4 Verification Provision

Provision is made for a verification mark to be applied.

1.5 Markings

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

Manufacturer's name or mark		
Serial number		
NSC approval numbers	- instrument	NSC No 6/9C/241
	- load cells	NSC No S.....
	- indicator	NSC No S.....
Accuracy class		Ⓜ
Maximum capacity		Max..... kg *
Minimum capacity		Min..... kg *
Verification scale interval		e = d =..... kg *
Maximum subtractive tare		T = -..... kg

* These are repeated adjacent to each reading face.

TEST PROCEDURE

Instruments should be tested in conjunction with any tests specified in the approval documentation for the indicator used, and in accordance with any relevant tests specified in the Inspector's Handbook.

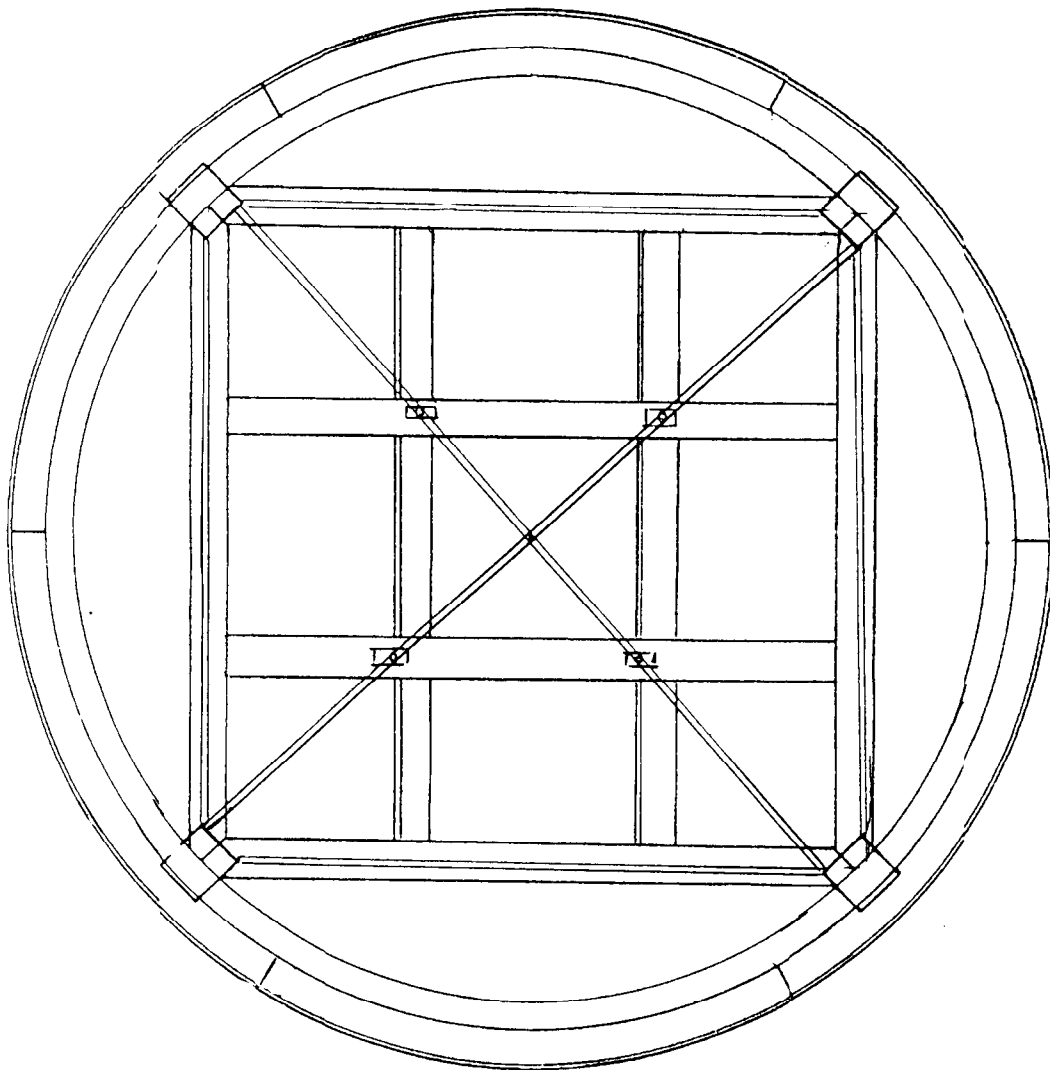
Removeable numbered frames are provided for the loading of test masses.

Maximum Permissible Errors at Verification/Certification

The maximum permissible errors for increasing and decreasing loads, expressed in terms of verification scale interval (e), with the instrument adjusted to zero within $\pm 0.25e$ at no load, are:

- $\pm 0.5e$ for loads from 0 to $500e$;
- $\pm 1.0e$ for loads over $500e$ up to $2\ 000e$; and
- $\pm 1.5e$ for loads over $2\ 000e$.

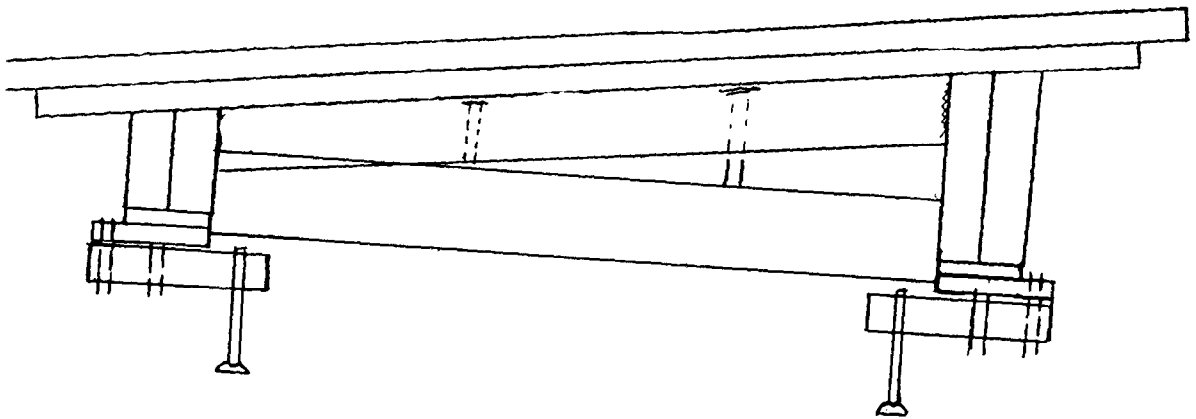
FIGURE 6/9C/241 - 1



Rose Model BTR-2 Weighing Instrument

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FIGURE 6/9C/241 - 2



Showing Load Cell Mounting