

# National Standards Commission



## Certificate of Approval

**No 6/5/12A**

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

**Salter Model 610T Weighing Instrument**

submitted by     Salter Weightronix Pty Ltd  
                         1 Apollo Court  
                         Blackburn VIC 3130.

**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 is subject to review on or after 1/5/98.  
This approval expires in respect of new instruments on 1/5/99.

Instruments purporting to comply with this approval shall be marked NSC No 6/5/12A 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 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.

#### DESCRIPTIVE ADVICE

**Pattern:** re-approved 7/4/93

- A Salter model 610T freely-suspended self-indicating weighing instrument of 10 kg maximum capacity.

**Variant:** re-approved 7/4/93

1. With a single pneumatic dashpot.

Technical Schedule No 6/5/12A describes the pattern and variant 1.

#### FILING ADVICE

Certificate of Approval No 6/5/12A, its Technical Schedule and Figures, all dated 18/10/88, are superseded by this Certificate, Technical Schedule and Figures all dated 14/6/93.

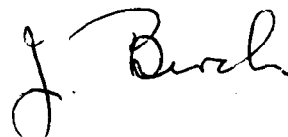
#### NOTE:

This Certificate is issued upon completion of a review. Attention is drawn to the Condition of Approval on page 1 relating to the expiry date of this approval.

The documentation for this approval now comprises:

Certificate of Approval No 6/5/12A dated 14/6/93  
Technical Schedule No 6/5/12A dated 14/6/93 (incl. Test Procedure)  
Figures 1 and 2 dated 14/6/93

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 6/5/12A

**Pattern:** Salter Model 610T Weighing Instrument.

**Submittor:** Salter Weightronix Pty Ltd  
1 Apollo Court  
Blackburn VIC 3130.

### 1. Description of Pattern

A Salter model 610T freely-suspended self-indicating weighing instrument of 10 kg maximum capacity with a verification scale interval of 0.02 kg.

#### 1.1 Indicating Mechanism

A double-sided dial indicator is used (Figure 1).

#### 1.2 Resistant Mechanism

The resistant mechanism (Figure 2) consists of two springs in parallel between two cross-arms. The top cross-arm is in two sections, pivoted at the end, and adjustable in the centre by means of the zero setting screw.

Two pneumatic dashpots are used.

#### 1.3 Zero

Zero is set by means of a tool-operated adjusting screw.

#### 1.4 Markings

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

Manufacturer's name or mark  
Serial number  
NSC approval number  
Accuracy class  
Maximum capacity  
Minimum capacity  
Verification scale interval

NSC No 6/5/12A

III

Max ..... g \*  
Min ..... g \*  
e = ..... g \*

\* Repeated adjacent to each reading face.

#### 1.5 Verification/Certification Provision

Provision is made for a verification/certification mark to be applied.

## **1.6 Sealing Provision**

Provision is made for the housing to be sealed by means of a sealing label across the joint.

## **2. Description of Variant 1**

With a single pneumatic dashpot.

### **TEST PROCEDURE**

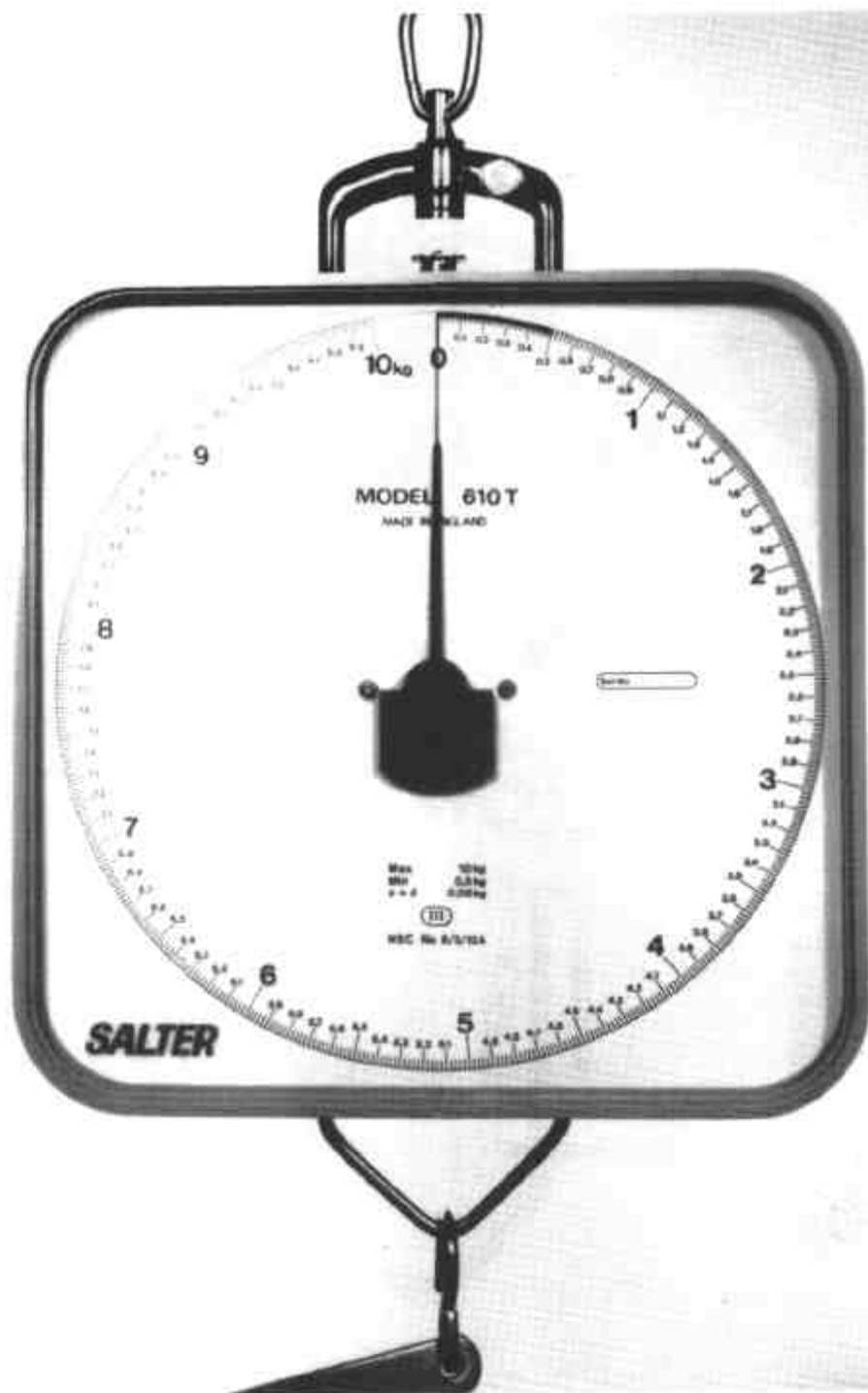
Instruments should be tested in accordance with any relevant tests specified in the Inspector's Handbook.

#### **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:

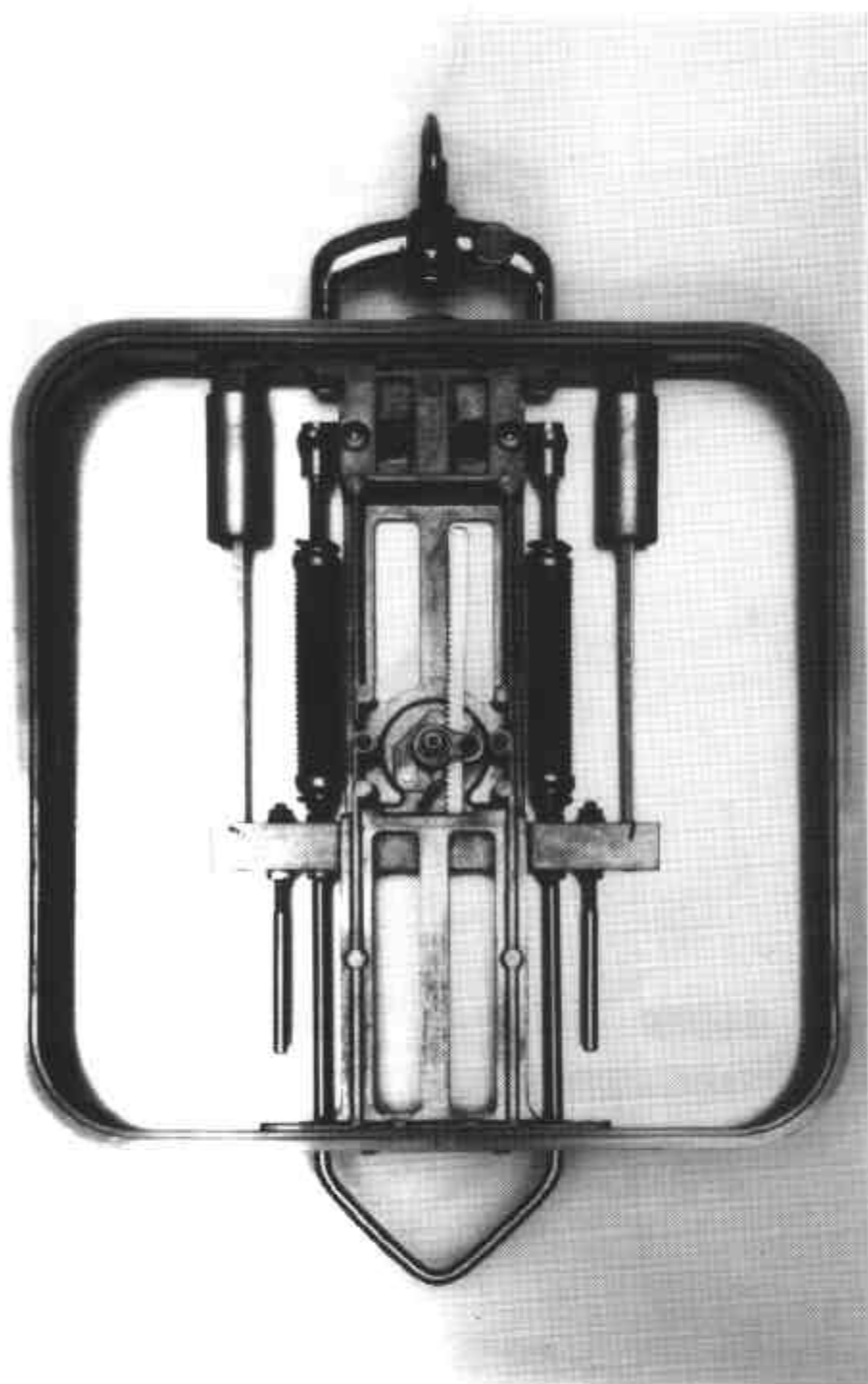
- $\pm 0.5e$  for loads from 0 to 500e;
- $\pm 1.0e$  for loads over 500e up to 2000e; and
- $\pm 1.5e$  for loads over 2000e.

FIGURE 6/5/12A - 1



Salter Model 610T Weighing Instrument

FIGURE 6/5/12A - 2



Showing Resistant Mechanism