

National Standards Commission



Certificate of Approval

No 6/5/13

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

RCM Model SW12 Weighing Instrument

submitted by RCM Products Pty Ltd
23 Potato Point Road
Bodala NSW 2545.

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 1/6/94.

This approval expires in respect of new instruments on 1/6/95.

Instruments purporting to comply with this approval shall be marked NSC No 6/5/13 and only by persons authorised by the submitter.

It is the submitter'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.

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

DESCRIPTIVE ADVICE

Pattern: approved 15/5/89

- An RCM model SW12 freely-suspended weighing instrument of 12 kg maximum capacity with a verification scale interval of 0.02 kg.

Technical Schedule No 6/5/13 describes the pattern.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/5/13 dated 10/10/91
Technical Schedule No 6/5/13 dated 10/10/91 (incl. Test Procedure)
Figures 1 and 2 dated 10/10/91



National Standards Commission

TECHNICAL SCHEDULE No 6/5/13

Pattern: RCM Model SW12 Weighing Instrument.

Submitter: RCM Products Pty Ltd
23 Potato Point Road
Bodala NSW 2545.

1. Description of Pattern

- An RCM model SW12 freely-suspended self-indicating weighing instrument of 12 kg maximum capacity with a verification scale interval of 0.02 kg. (Figure 1)

1.1 Indicating Mechanism

A double-sided dial indicator is used. Indications below Minimum Capacity are clearly differentiated.

1.2 Resistant Mechanism

The resistant mechanism consists of two springs in parallel between two cross-arms. A single oil-filled or pneumatic dashpot is fitted. (Figure 2)

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 6/5/13



Max kg *
Min kg *
e = d = kg *

* Repeated in the vicinity of each reading face.

1.5 Verification/Certification Provision

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

TEST PROCEDURE

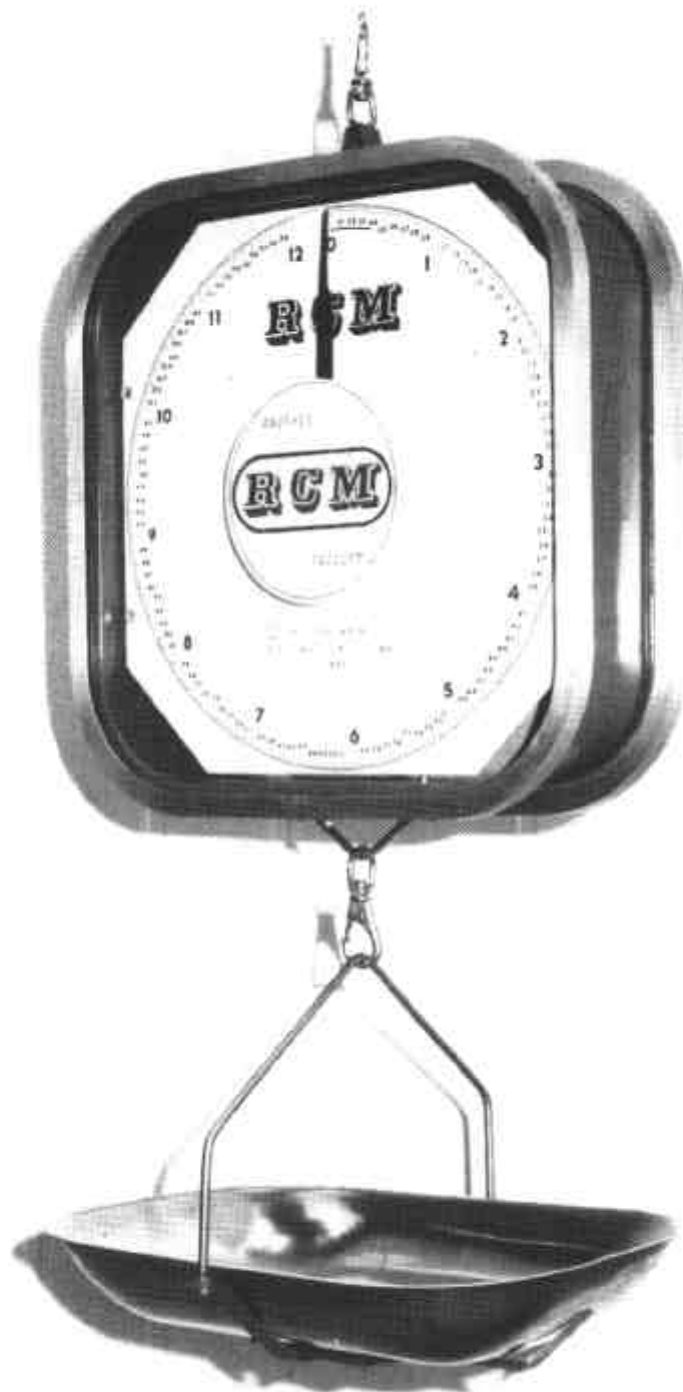
Instruments should be tested in conjunction with any relevant tests specified in the Inspector's Handbook.

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:

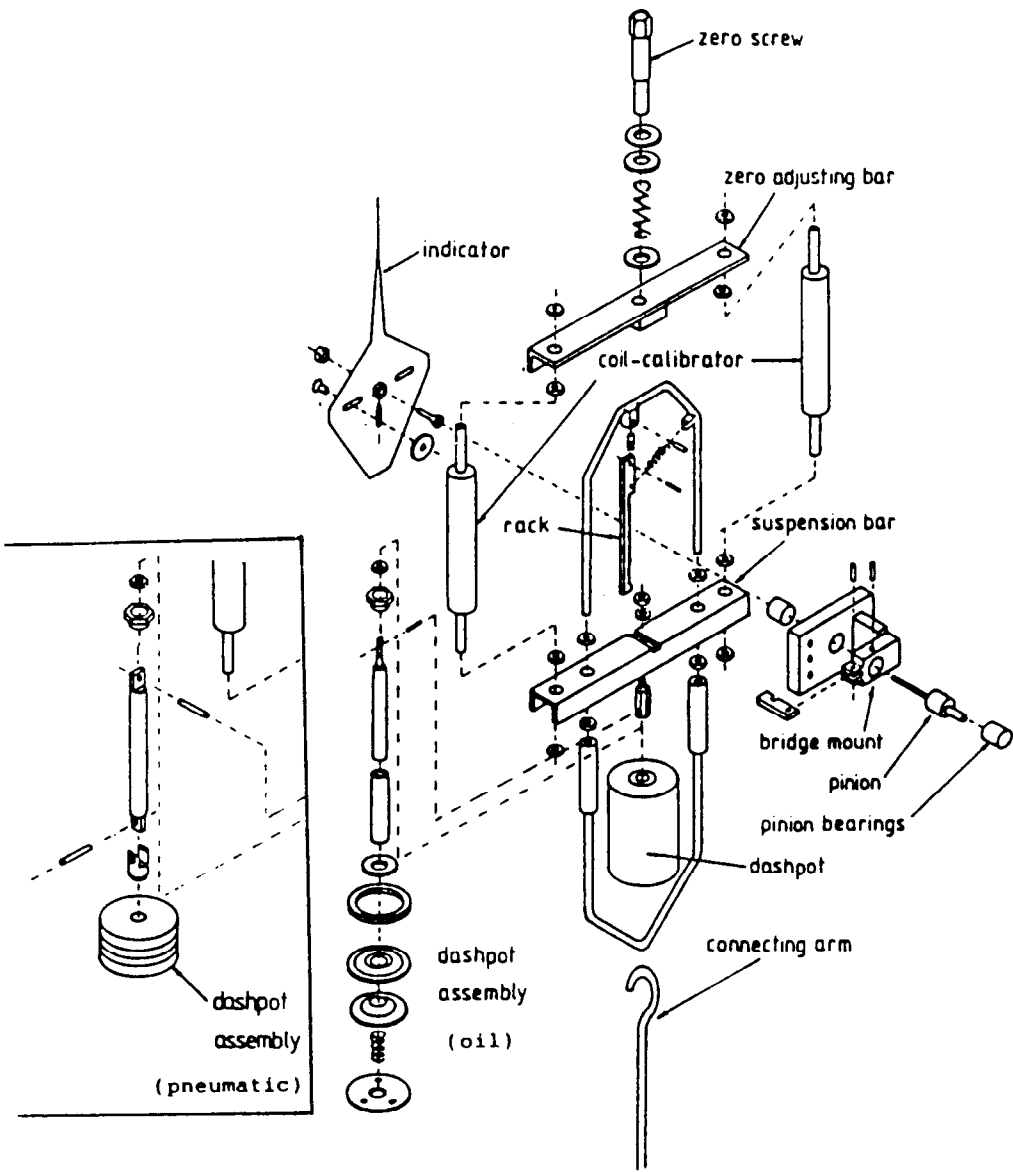
- $\pm 0.5e$ for loads from 0 to 500e; and
- $\pm 1.0e$ for loads over 500e up to 2000e.

FIGURE 6/5/13 - 1



RCM Model SW12 Weighing Instrument

FIGURE 6/5/13 - 2



Typical RCM Headwork