NATIONAL STANDARDS COMMISSION

WEIGHTS & MEASURES (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/18/16

This is to certify that an approval has been granted by the Commission that the pattern of the

Avery Model 4127/Z6H/8650 Overhead-track Weighing Instrument

submitted by Avery Australia Limited
3-5 Birmingham Avenue
VILLAWOOD NEW SOUTH WALES 2163

is suitable for use for trade.

The approval is subject to review on or after 1/7/88.

Instruments purporting to comply with this approval shall be marked NSC No 6/18/16.

Relevant drawings and specifications are lodged with the Commisison.

Condition of Approval

The load cells to be used shall be subject to regular certification by the National Standards Commission.

Signed

Executive Director

Descriptive Advice

Pattern: approved 12/5/83

. Avery model 4127/Z6H/8650 self-indicating overhead-track weighing instrument of 400 kg capacity with digital indication.

Technical Schedule 6/18/16 dated 7/6/83 describes the pattern.

Filing Advice

The documentation for this approval comprises:

Certificate of Approval No 6/18/16 dated 7/6/83
Technical Schedule No 6/18/16 dated 7/6/83
Test Procedure No 6/18/16 dated 7/6/83
Figures 1 and 2 dated 7/6/83

7/6/83

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/18/16

Pattern: Avery Model 4127/Z6H/8650 Overhead-track Weighing Instrument

Submittor: Avery Australia Ltd
3-5 Birmingham Avenue
VILLAWOOD NEW SOUTH WALES 2163

1. Description of Pattern

An Avery self-indicating overhead-track weighing instrument (Figures 1 and 2) of 400 kg maximum capacity with 0.2 kg scale intervals, mounted in a permanantly fixed position, and approved for use with up to 2000 scale intervals.

The instrument comprises:

a) An Avery model 4127 overhead-track lever system, with a weigh rail of 250 mm nominal length,

b) An HBM Z6H2 20 kg load cell, and

c) An Avery model 8650 digital mass indicator, as described in Technical Schedule No 6/9C/64 Variation No 1 dated 22/11/78.

1.1 Marking

The instrument is marked with the following data, together in a clearly visible location:

Manufacturer's name or mark	
Serial number of instrument	
NSC approval number	NSC No 6/18/16
Accuracy class	(III)
Maximum capacity	Max 400 kg*
Minimum capacity	Min 10 kg*
Verification scale interval	e = d = 0.2 kg*
Maximum subtractive tare	T = -400 kg

* Repeated in the vicinity of every reading face.

TEST PROCEDURES No 6/18/16

All load applications should be in accordance with the Commission's recommended testing procedure for the elimination of rounding error, as set out in Document 104.

The maximum permissible errors are:

$\pm$0.5e for loads between 0 and 500e;
$\pm$1.0e for loads between 501e and 2000e.

1. Zero Range

The maximum range of operation of the zero device should not exceed 4% of the capacity of the instrument ($\pm$2% approximately).

2. Zero Test

Check using Document 104, that when the ZERO light is illuminated, zero is set within 0.25e.

3. Range of Indication

(a) The maximum mass indicated should not exceed the maximum capacity (Max) by more than 10 scale intervals; above this, the indicator should blank.

(b) The minimum mass indicated should be zero; below this the indicator should display the mass prefixed by a minus sign.

4. Test Loads

Test loads are to be applied to the instrument at the centre of the weigh rail in not less than 5 approximately equal steps increasing to maximum capacity, followed by decreasing loads of not less than 5 approximately equal steps.

This test should be repeated at each end of the weigh rail.

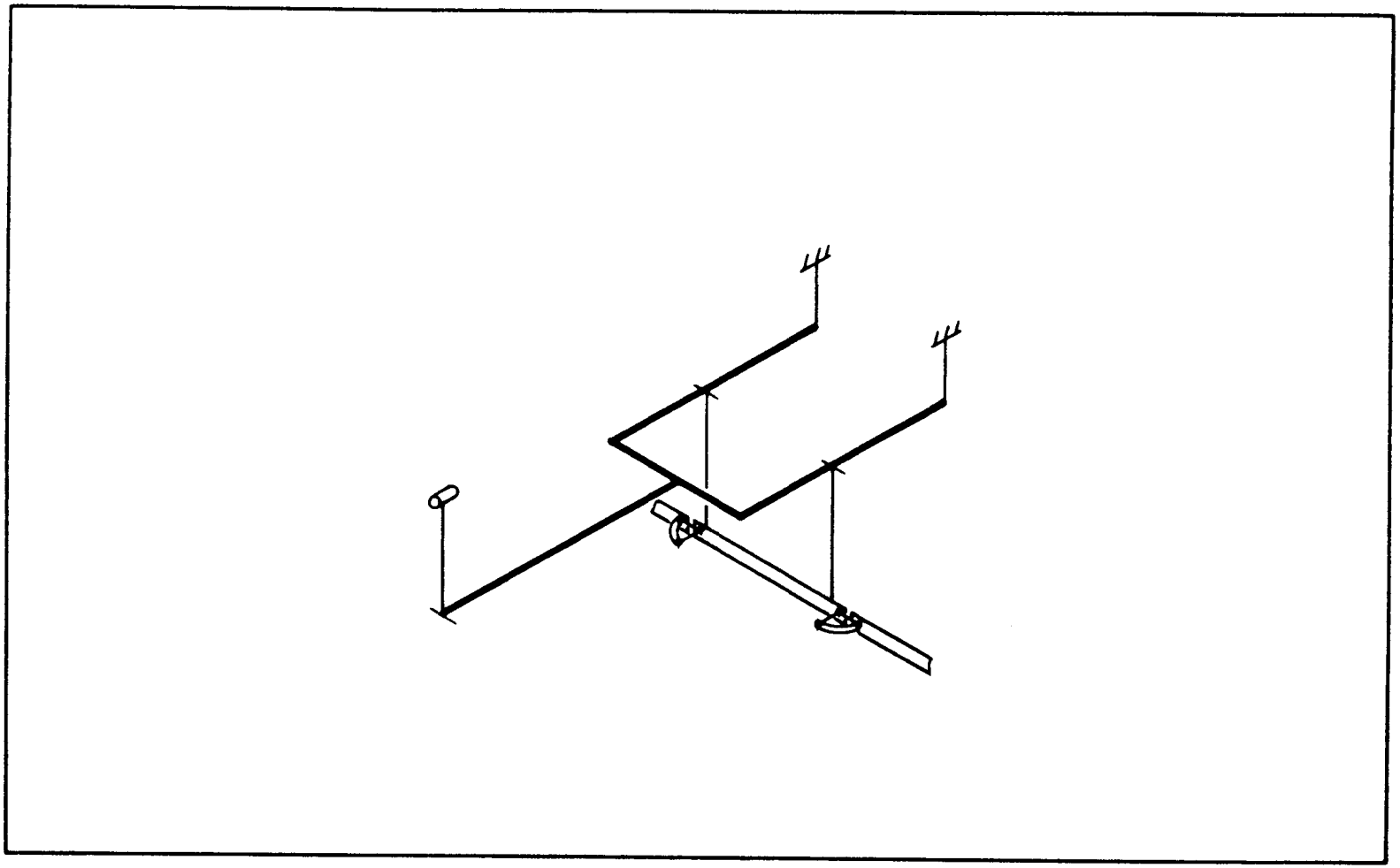
The instrument should display these loads within the applicable tolerance as listed above.

5. Taring

(a) The tare function should be able to reset the mass indicator to zero within 0.25e at any load within its capacity. This may be checked as described for Zero Test.

(b) A tare should not be able to be acquired above the marked tare capacity.

FIGURE 6/18/16 - 1



Schematic Of Lever System

FIGURE 6/18/16 - 2

Avery Model 8650 Indicator