NATIONAL STANDARDS COMMISSION

6/9C/98
1/12/86

NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

INSTRUMENT CERTIFICATE OF APPROVAL No 6/9C/98

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

Toledo Model 9118 Platform Weighing Instrument

submitted by Toledo Scale Australia Ltd
525 Graham Street
Port Melbourne Victoria 3207.

CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/5/91.

This approval expires on 1/5/92, after which the instrument may be reverified at the discretion of the relevant verifying authority.

The instrument purporting to comply with this approval shall be marked NSC No 6/9C/98.

This approval may be withdrawn if the instrument is constructed and used other than in accordance with the drawings and specifications lodged with the Commission.

The approval is limited to the instrument (serial number 884/031) located at Steel Improvements Pty Ltd, 49 McIntyre Road, Sunshine, Victoria.

The instrument is for use in determining the mass of a product filled into a drum where this mass is later converted into an equivalent volume; the subsequent calculation of volume is not subject to Pattern Approval.

Signed

J. Birch

Executive Director

Descriptive Advice

Pattern: approved 22/4/86

- A self-indicating platform weighing instrument of 2000 kg capacity.

Technical Schedule No 6/9C/98 describes the pattern.

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Filing Advice

The documentation for this approval comprises:

Instrument Certificate of Approval No 6/9C/98 dated 1/12/86
Technical Schedule No 6/9C/98 dated 1/12/86
Test Procedure No 6/9C/98 dated 1/12/86
Figure 1 dated 1/12/86

TECHNICAL SCHEDULE No 6/9C/98

Pattern: Toledo Model 9118 Platform Weighing Instrument

Submittor: Toledo Scale Australia Ltd
525 Graham Street
Port Melbourne Victoria 3207.

1. Description of Pattern

A self-indicating platform weighing instrument of 2000 kg capacity with a verification scale interval of 1 kg (Figure 1).

1.1 Basework

The basework is similar to the model 2154 basework described in the documentation of NSC approval No 6/9C/45 and is fitted with a model 0721 load cell of 90 kg capacity. The load receptor is fitted with a motorised (chain-driven) conveyor.

The system is designed to enable up to four drums on a pallet to be driven onto the platform by the conveyor, and to be filled (either manually or automatically) by the filling lance. Before the filling of any drum is commenced the instrument is tared, enabling the mass of fluid filled into the drum to be displayed. Note: This mass is later converted into an equivalent volume, but this conversion is not subject to Pattern Approval.

1.2 Indicator

The indicator is a Toledo model 9118 Drumfiller Control Module, similar to the indicator approved as variant 4 of NSC approval No S102. The control module has facilities for the setting of various fill sequences, alarms, tolerances and other parameters (e.g. preact, dribble) and can provide various management control and reporting functions. It may be fitted with output sockets for the connection of peripheral and/or auxiliary devices.

1.2.1 Zero

As the instrument is tared before each filling, a zero indicator and an external zero setting device are not provided. However a light is provided which illuminates when the indicator reading is below zero.

1.2.2 Tare

The tare facility of the instrument operates non-automatically (digitally) i.e. the mass on the platform is tared to within $\pm$ 0.5e. When the indicator is indicating the NET mass on the platform the NET light illuminates, similarily when the indicator is indicating the GROSS mass on the platform the GROSS light illuminates.

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1.2.3 Test Function

The instrument has a number of inbuilt test facilities, including a test of the instrument display. The test procedures are initiated by use of the TEST, CLEAR, and ENTER buttons.

1.3 Markings

The instrument is marked with the following data, together in one location:

Manufacturer's name or mark	
Serial number	
NSC approval number	NSC No 6/9C/98
Accuracy class	(III)
Maximum capacity	Max 2000 kg *
Minimum capacity	Min 50 kg *
Verification scale interval	e = d = 1 kg *
Maximum subtractive tare	T = - 2000 kg

Load cell serial number - alternatively, this may be marked on a metal tag sealed to the indicator.

* These markings are repeated close to the reading face if not already in that vicinity.

1.4 Verification Provision

Provision is made for a verification mark to be applied.

TEST PROCEDURE No 6/9C/98

All load applications to the instrument 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:

± 0.5e for loads between 0 and 500e;
± 1.0e for loads between 501e and 2000e.

1. Range of Indication

a) The maximum mass indicated should not exceed the marked maximum capacity by more than 10e; above this indicated mass the indication should be blank or show non-numerical characters.

b) Below zero the UNDER ZERO lamp should illuminate.

2. Load Test

Test loads are to be applied to the instrument in not less than 5 approximately equal steps increasing to maximum capacity, followed by decreasing loads in not less than 5 approximately equal steps to zero load.

Before applying the maximum permissible errors, the error at zero load should be determined and subtracted from the errors when the instrument is loaded.

1.3 Tare

Attempt to tare a mass greater than the marked tare capacity; this should not be possible.

National Standards Commission

NOTIFICATION OF CHANGE

VARIOUS CERTIFICATES OF APPROVAL

The following changes are made to the approval documentation for various approvals

submitted by Toledo Scale (Australia) Ltd
525 Graham Street
Port Melbourne VIC 3207.

In the Certificates and Technical Schedules listed overleaf, the following changes should be made: (Note: Only current approvals are listed.)

1. The submittor should be changed to read;

   Mettler Toledo Limited

   (the address remains unchanged)

2. All references to 'Toledo' instruments or components should be amended to read 'Toledo (or Mettler or Mettler Toledo)'.

NOTE: Any 'Toledo' instrument or component described in the approval documentation may now also be known as 'Mettler or Mettler Toledo'.

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APPROVAL NUMBER	PATTERN
6/4C/65	8214 Weighing Instrument
6/4C/68	8215 Weighing Instrument
6/4D/242	8421 Weighing Instrument
6/9C/2A	2191 Weighing Instrument
6/9C/24A	2503 Weighing Instrument
6/9C/28	2020 Weighing Instrument
6/9C/~~24A~~ 44A	2985 Weighing Instrument
6/9C/76	2295 Weighing Instrument
6/9C/87	2375 Weighing Instrument
6/9C/97	2155 Weighing Instrument
6/9C/98	9118 Weighing Instrument
6/9C/206	6303 Weighing Instrument
6/9C/231	1938 Weighing Instrument
6/10B/46A	7560 Weighing Instrument
6/14B/9A	2352 Hopper Weighing Instrument
6/18/21	2299 Overhead Weighing Instrument
S253	8530 Digital Indicator
S266	8520 Digital Indicator
S283	8510 Digital Indicator
S111A	0721 Load Cell
S112A	0723 Load Cell
S143	0752 Load Cell
S172	0725 Load Cell
S211	0742 Load Cell
S252	0760 Load Cell
S264	0752 Load Cell
S268	RLC 5000 Load Cell

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.

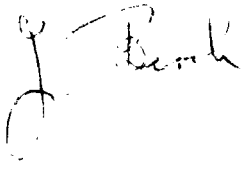
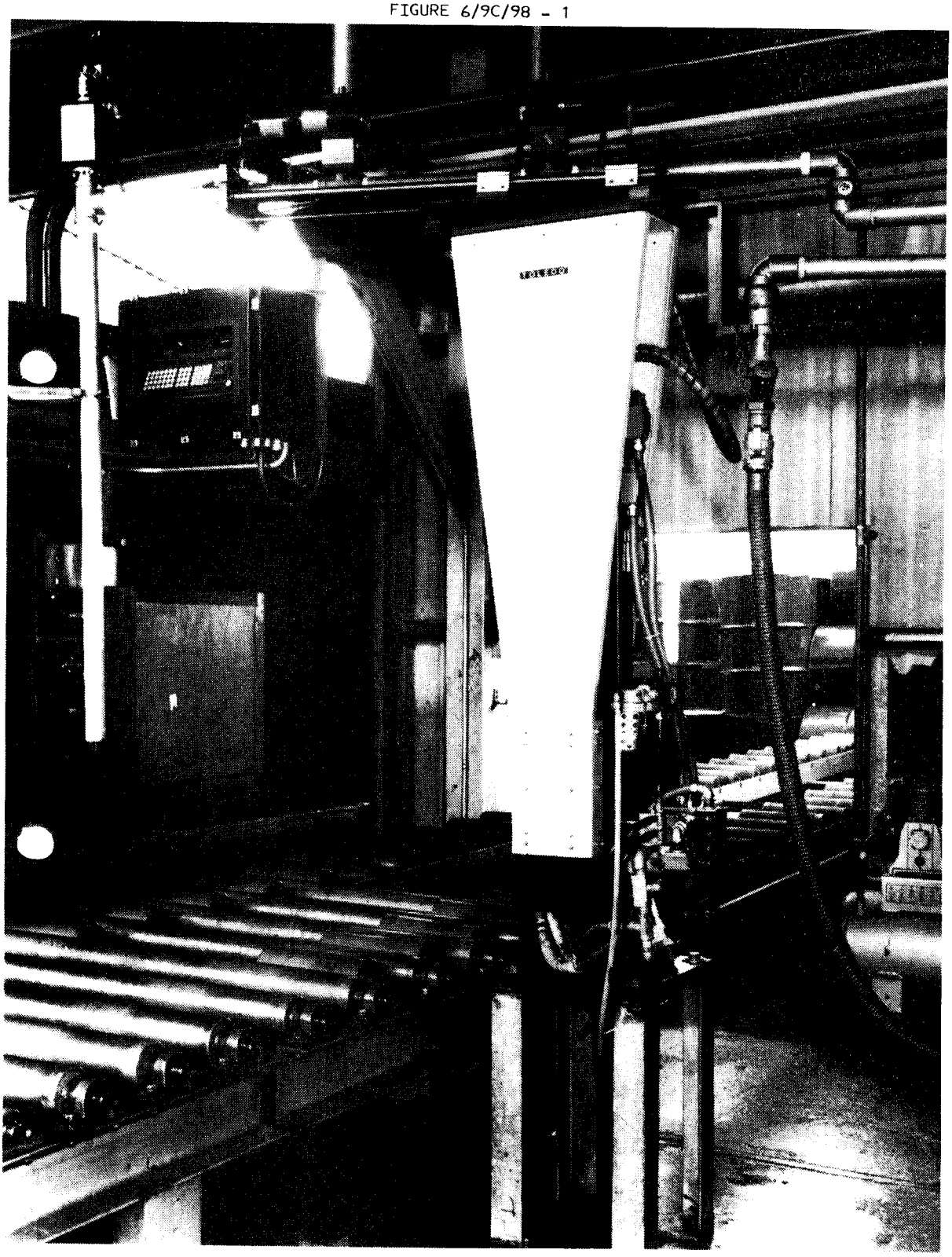


FIGURE 6/9C/98 - 1



Toledo Model 9118 Weighing Instrument