



NATIONAL STANDARDS COMMISSION

WEIGHTS & MEASURES (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/14D/12

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

Toledo Model 8172 Belt Conveyor Weigher

submitted by Toledo Scale (Australia) Ltd
525 Graham Street
Port Melbourne, Victoria, 3207

are suitable for use for trade.

The approval is subject to continuing review.

Instruments purporting to comply with this approval shall be marked NSC No 6/14D/12.

The approval may be withdrawn if instruments are used other than as described in the drawings and specifications lodged with the Commission.

Conditions of Approval

1. The submitter shall notify the Commission of each instrument to be submitted to Weights and Measures Authorities for verification.*
2. Means shall be provided to ensure that the conveyor cannot move in the reverse direction.
3. Minimum delivery (Min) is:

For a class 1 instrument, 2000 totaliser increments (2000 x d).
For a class 2 instrument, 1000 totaliser increments (1000 x d).

Signed

Executive Director

Descriptive Advice

Pattern: approved 27/9/83

- Toledo model 8172 class 1 belt conveyor weigher with a maximum flow rate of 9900 t/h.

* Inspectors should not verify any instrument purporting to comply with this approval until advised in writing by the Commission.

18/10/83

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Variants: approved 27/9/83

1. As a class 2 belt conveyor weigher.
2. With the basework replaced by the basework of any Commission-approved belt conveyor weigher.

Technical Schedule No 6/14D/12 dated 18/10/83 describes the pattern and variants 1 and 2.

Filing Advice

The documentation for this approval comprises:

Certificate of Approval No 6/14D/12 dated 18/10/93
Technical Schedule No 6/14D/12 dated 18/10/83
Test Procedure No 6/14D/12 dated 18/10/83
Figure 1 dated 18/10/83.



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/14D/12

Pattern: Toledo Model 8172 Belt Conveyor Weigher

Submitter: Toledo Scale (Australia) Ltd
525 Graham Street
Port Melbourne, Victoria, 3207.

1. Description of Pattern

The pattern (Figure 1) is a class 1 belt conveyor weigher of 9900 t/h maximum flow rate and 1 t maximum static capacity. The conveyor may be inclined up to 20° from the horizontal.

The instrument is approved with a maximum weigh length of 3.1 m and a maximum belt speed of 10.0 m.s⁻¹.

The instrument may be fitted with output sockets for the connection of auxiliary or peripheral equipment.

1.1 Basework

Two idler rollers are mounted on a frame which is supported on two main levers by flexure plates (Figure 1). The nose-ends of the main levers are connected by a single link and an extension on one lever which applies the load to a Toledo model 0721 load cell (NSC No S111).

A load cell of any approved capacity between 11 kg and 90 kg may be used. The capacity of the instrument will vary according to the load cell capacity and the lever ratio. Refer to Condition of Approval 1.

1.2 Computing and Totalising Unit

This unit integrates the load cell mass signal with the conveyor-belt movement signal from the pulse transmitter to provide digital data which represents the mass of material passed over the weigher.

Flow rate is indicated on a seven-bar digital indicator.

1.3 Marking

Instruments shall be clearly and permanently marked on one or more permanently attached nameplates with the following information:

Manufacturer's name or mark	
Model number	
Serial number	
Accuracy class	
NSC approval number	NSC No 6/14D/12
Maximum flow rate	Q max
Minimum totalised load	Min
Maximum capacity of the weighing unit	Max
Scale interval of totaliser	d =
Belt speed	V =
Weigh length	L =

2. Description of Variants

2.1 Variant 1

The model 8172 as a class 2 belt conveyor weigher (refer Conditions of Approval).

2.2 Variant 2

With the basework replaced by the basework of any Commission-approved belt conveyor weigher.

TEST PROCEDURE No 6/14D/12

Instruments should be tested in accordance with the Commission's Design Manual No 7 for belt conveyor weighers, as detailed below.

- . Document 119 - Part 4, Material Tests
- . Document 102 - Part 2, Scope of Design Rules
Part 3, Performance Requirements



NATIONAL STANDARDS COMMISSION

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/14D/12

CHANGE No 1

The following change is made to the approval documentation of the

Toledo Model 8172 Belt Conveyor Weigher

submitted by Toledo Scale (Australia) Ltd
525 Graham Street
PORT MELBOURNE VIC 3207.

Technical Schedule No 6/14D/12 dated 18/10/83 is replaced by the attached Technical Schedule dated 13/1/84 in which amendments are made to paragraphs 1.1 Basework and 1.3 Marking.

Signed

Executive Director

13/1/84

FIGURE 6/14D/12 - 1



Toledo Model 8172 BCW

18/10/83