



Australian Government

National Measurement
Institute

Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

No 8/90

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

This is to certify that an approval for use for trade has been granted in respect of the instruments herein described.

Brown Model VTL 41000 Milk Tank

submitted by Belwey Pty Ltd
 T/a Barry Brown & Sons
 12 Drovers Place
 Pakenham VIC 3810

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.

This approval has been granted with reference to document NMI M 4, *Pattern Approval Specifications for Milk Tanks*, dated February 2006.

This approval becomes subject to review on 1/03/17, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variant 1 approved – certificate issued	7/02/13

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 8/90' 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 documentation lodged with the National Measurement Institute (NMI) 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 document NMI P 106.

Signed by a person authorised by the Chief Metrologist to exercise their powers under Regulation 60 of the *National Measurement Regulations 1999*.

A handwritten signature in black ink, appearing to be 'A. Rawlinson', with a horizontal line underneath.

Dr A Rawlinson

TECHNICAL SCHEDULE No 8/90

1. Description of Pattern

approved on 7/02/13

A Brown model VTL 41000 vertical cylindrical refrigerated milk tank of 41 000 L capacity (Figure 1 and Table 1) incorporating a sight-gauge for the measurement of the volume.

1.1 Details

- (i) The tank is a vertical stainless steel cylinder sheathed in an outer casing of stainless steel; the cavity between is filled with insulating material. The bottom of the tank slopes towards the outlet orifice which is located near the sight gauge side of the tank. An outlet pipe is permanently fixed to the outlet orifice and has a continuous slope such that the entire contents of the tank drain freely to the outlet valve.
- (ii) A single sight-gauge mounted in a vertical position is located in the vicinity of the outlet valve and comprises a transparent polycarbonate sight-tube fitted in a rigid stainless steel support channel fixed to the front-end of the tank. A stainless steel scale is pop-riveted to the sight-gauge, with the edge of the scale placed against the front centre of the sight-tube.

The scale is graduated in 50 L increments.

A valve located at the bottom of the sight-gauge allows milk to enter the sight-tube and be isolated from the tank contents. A separate valve allows the sight-tube to be drained without draining the contents of the tank.

- (iii) Levelling is effected by means of 8 adjustable legs with reference to the datum level marks permanently marked on the tank. The volume represented by the datum level marks is marked on the sight-gauge scale.

Each leg has provision for fixing to the floor, and sealing, after levelling.

- (iv) Access for inspection is provided by a side entry opening.
- (v) Provision is made for a CIP (clean-in-place) system for both the tank and the sight-gauge.
- (vi) A milk sampling valve may be fitted to the tank.

1.3 Verification Provision

Provision is made for the application of a verification mark.

1.4 Sealing Provision

Provision is made for the adjustable legs to be sealed after the tank has been levelled.

1.5 Descriptive Markings

The following data is marked on the nameplate permanently attached to the instrument in a clearly visible location:

Manufacturer's mark, or name written in full	Barry Brown & Sons
Model number
Serial number
Pattern approval mark	NMI No 8/90
Maximum capacity L

In addition, the volume represented by the datum level marks shall be marked on the on the sight-gauge scale.

2. Description of Variant 1

approved on 7/02/13

Certain models and capacities as listed in Table 1.

TABLE 1

Model Number	Maximum Capacity (litres)	Number of Legs	Scale Interval
VTL 6300	6 300	4	20
VTL 9000	9 000	6	20
VTL 10000	10 000	6	20
VTL 12500	12 500	6	50
VTL 15000	15 000	6	50
VTL 18000	18 000	8	50
VTL 18500	18 500	6	50
VTL 20000	20 000	8	50
VTL 23500	23 500	8	50
VTL 25500	25 500	8	50
VTL 27500	27 500	8	50
VTL 29500	29 500	8	50
VTL 31500	31 500	8	50
VTL 35000	35 000	8	50
VTL 41000	41 000	8	50

TEST PROCEDURE No 8/90

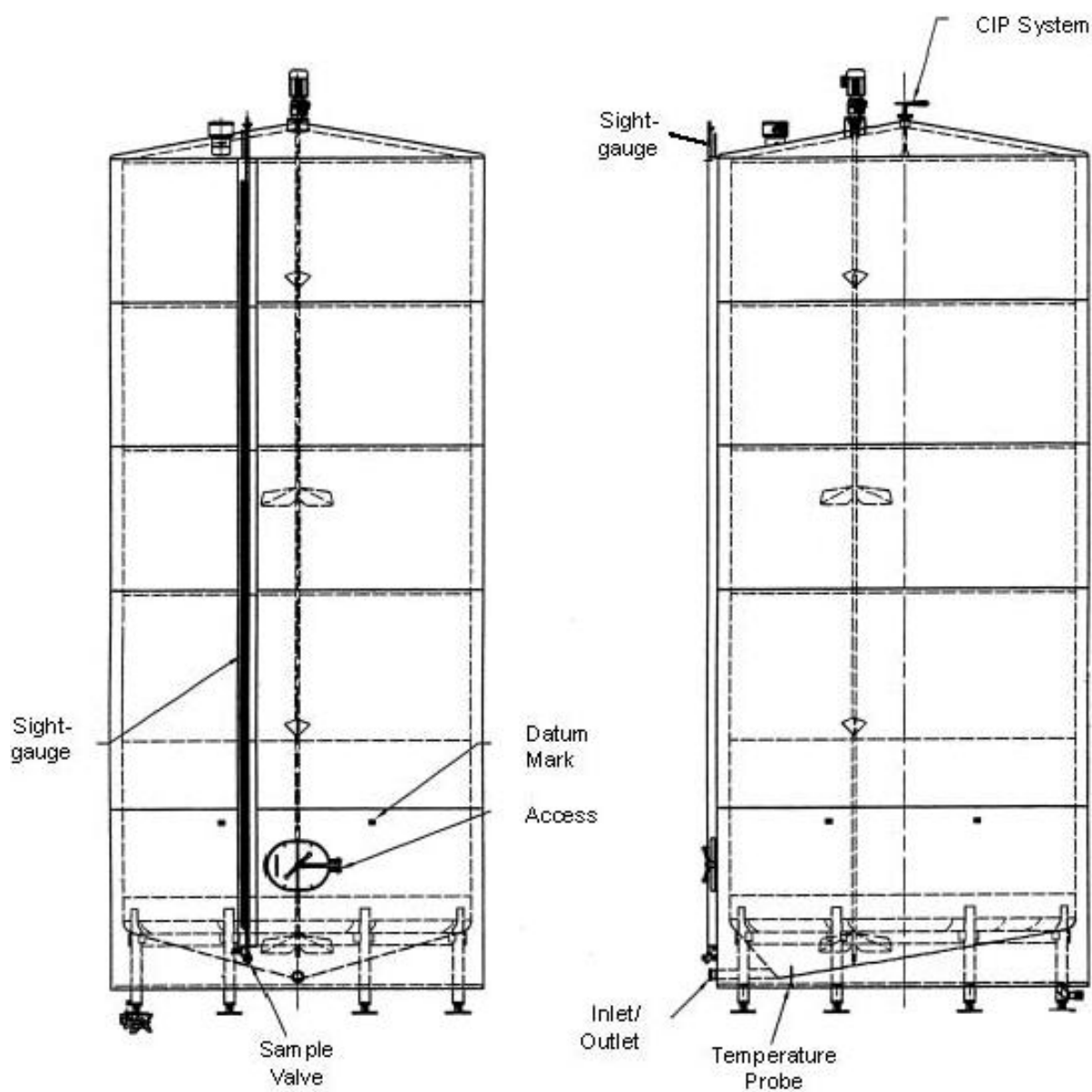
Instruments shall be tested in accordance with any relevant tests specified in the National Instrument Test Procedures.

The instrument shall not be adjusted to anything other than as close as practical to zero error, even when these values are within the maximum permissible errors.

Maximum Permissible Errors

The maximum permissible errors are specified in Schedule 1 of the *National Trade Measurement Regulations 2009*.

FIGURE 8/90 – 1



Brown Model VTL 41000 Milk Tank

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