



Australian Government
**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Notification of Change
Certificate of Approval No 8/82
Change No 1

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

The following changes are made to the approval documentation for the

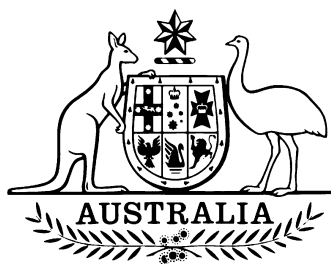
Crown Sheetmetal Model H19 Milk Tank

submitted by Crown Sheetmetal Ltd
32 Spey Street
Invercargill
NEW ZEALAND.

1. In Certificate of Approval No 8/82 dated 16 January 2001, the Condition of Approval referring to the review of the approval should be amended to read:
“This approval becomes subject to review on 1 December 2011, and then every 5 years thereafter.”
2. In Technical Schedule No 8/82 dated 16 January 2001, clause **1.4 Markings** should be amended by adding the following to the list of required markings:
“Year of manufacture”

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

A handwritten signature in black ink, appearing to be 'J. G. T.', written in a cursive style.



National Standards Commission

12 Lyonpark Road, North Ryde NSW

Certificate of Approval

No 8/82

Issued 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

Crown Sheetmetal Model H19 Milk Tank

submitted by Crown Sheetmetal Ltd
32 Spey Street
Invercargill NEW ZEALAND.

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.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 December 2005, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 8/82 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 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 NSC P 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 7 November 2000

- A Crown Sheetmetal model H19 horizontal cylindrical refrigerated milk tank of 9100 L capacity.

Variant: approved 7 November 2000

1. Other models and capacities as listed in Table 1.

Technical Schedule No 8/82 describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 8/82 dated 16 January 2001
Technical Schedule No 8/82 dated 16 January 2001 (incl. Table 1 and Test Procedure)
Figure 1 dated 16 January 2001

Signed by a person authorised under Regulation 60 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.



TECHNICAL SCHEDULE No 8/82

Pattern: Crown Sheetmetal Model H19 Milk Tank.

Submittor: Crown Sheetmetal Ltd
32 Spey Street
Invercargill NEW ZEALAND.

1. Description of Pattern

A Crown Sheetmetal model H19 horizontal cylindrical refrigerated milk tank of 9100 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 horizontal 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 control valve. An optional milk-sampling valve may be fitted to the tank.
- (ii) A sight-gauge mounted in a vertical position is located in the vicinity of the outlet valve and comprises a transparent sight-tube fitted in a rigid stainless steel support tube fixed to the side of the tank adjacent to a stainless steel scale. The scale has provision for a lead seal to be attached to the scale mounting assembly. The sight-tube is made of plastic.

The scale is graduated in 20 L increments.

A valve located at the bottom of the sight-gauge allows the milk in the sight-gauge to be drained without draining the contents of the tank.

- (iii) Levelling is effected by means of 6 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 the leg to the floor, and provision for sealing, after levelling.
- (iv) Access for inspection is provided.
- (v) A closed CIP (clean in place) system is incorporated.

1.2 Verification/Certification Provision

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

1.3 Sealing Provision

Provision is made for the adjustable legs to be sealed after the tank has been levelled. Refer clause 1.1 (iii).

1.4 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	Crown Sheetmetal Ltd
Model number
Serial number
Pattern approval mark in the form:	NSC No 8/82
Maximum capacity in the form 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

Other models and capacities as listed in Table 1.

TEST PROCEDURE

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

Maximum Permissible Error at Verification/Certification

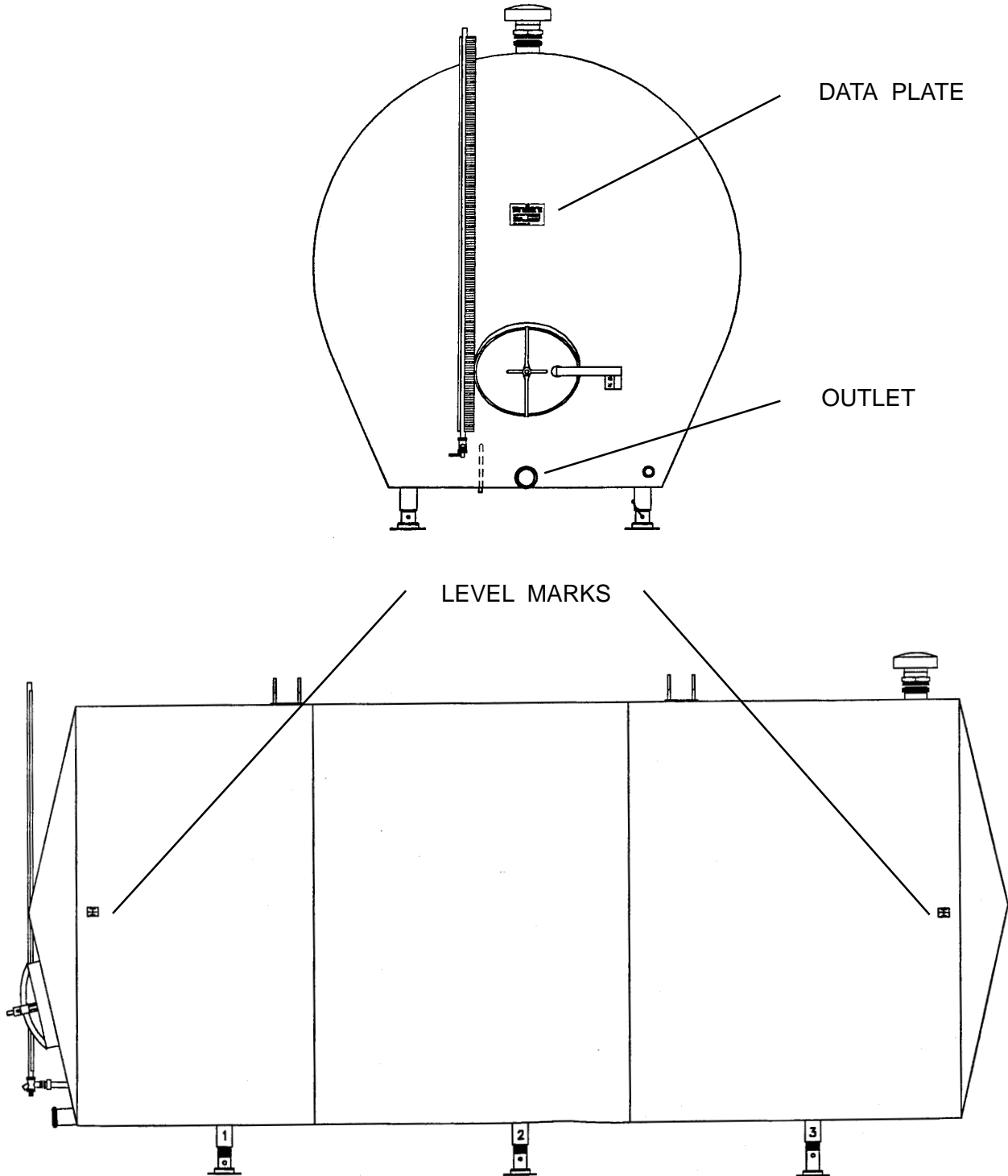
The maximum permissible error for milk tanks incorporating a sight-gauge is ± 1 scale interval.

TABLE 1

Model Number	Maximum Capacity (litres)	Number of Legs	Scale Interval (litres)
H19	4 100	4	10
H19	5 100	4	20
H19	6 400	4	20
H19	7 200	4	20
H19	8 000	4	20
H19	9 100	6	20
H19	10 300	6	50
H19	11 600	6	50
H19	12 600	6	50
H19	13 400	8	50
H19	14 200	8	50
H24	9 300	4	20
H24	10 300	4	50
H24	11 200	4	50
H24	11 600	4	50
H24	12 500	4	50
H24	13 800	6	50
H24	14 600	6	50
H24	15 500	6	50
H24	16 400	6	50
H24	18 000	6	50
H24	20 000	8	50
H24	22 000	8	50
H24	24 000	8	50
H24	25 000	8	50
H24	27 000	10	100
H24	30 000	10	100
H30	14 500	6	50
H30	16 000	6	50
H30	17 500	6	50
H30	19 500	6	50
H30	21 500	6	50
H30	24 000	8	50
H30	25 500	8	100
H30	27 500	8	100
H30	29 500	8	100
H30	31 500	8	100
H30	33 500	10	100
H30	35 500	10	100
H30	37 500	10	100
H30	39 500	10	100
H30	41 000	10	100

THIS PAGE INTENTIONALLY BLANK

FIGURE 8/82 - 1



Crown Sheetmetal Model H19 Milk Tank