

National Standards Commission



Certificate of Approval

No 8/56

Issued under Regulation 9
of the
National Measurement (Patterns of Measuring Instruments) Regulations

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

Mercer Model AS-VS Milk Tank

submitted by Mercer Stainless Ltd
53 Lunns Road
Christchurch 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 is subject to review on or after 1/1/1999.
This approval expires in respect of new instruments on 1/1/2000.

Instruments purporting to comply with this approval shall be marked NSC No 8/56 and only by persons authorised by the submitter.

It is the submittor'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 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 15/12/93

- A Mercer model AS-VS vertical milk tank of 10 600 L capacity incorporating a sight-gauge for the measurement of the volume.

Variant: approved 15/12/93

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

Technical Schedule No 8/56 describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 8/56 dated 18/3/94
Technical Schedule No 8/56 dated 18/3/94 (incl. Table 1 and Test
Procedure)
Figure 1 dated 18/3/94

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.





National Standards Commission

TECHNICAL SCHEDULE No 8/56

Pattern: Mercer Model AS-VS Milk Tank.

Submitter: Mercer Stainless Ltd
53 Lunns Road
Christchurch New Zealand.

1. Description of Pattern

A Mercer model AS-VS vertical cylindrical refrigerated milk tank of 10 600 L capacity (Figure 1 and Table 1) incorporating a sight-gauge for the measurement of the volume. (Also known as a Master Cool model AS-VS).

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.

A milk-sampling valve is fitted to the tank.

- (ii) A single sight-gauge mounted in a vertical position is located in the vicinity of the outlet valve (Figure 1) and comprises a transparent sight-tube fitted in a rigid stainless steel support channel fixed to the side of the tank adjacent to a stainless steel scale. The scale has provision for a lead or a lead and wire seal to be attached to the scale mounting assembly. The sight-tube is made of plastic complying with Australian Standard AS 2070 *Plastics material for food contact use*.

The scale is graduated in 20 L increments.

- (iii) Levelling is effected by means of 5 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 a lead and wire seal to be attached, after levelling.
- (iv) Provision is made for a CIP (clean-in-place) system for both the tank and the sight-gauge.
- (v) Access for inspection is provided by a side entry opening.
- (vi) A ladder is provided adjacent to the sight-gauge to allow reading of the gauge.

1.2 Verification/Certification Provision

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

1.3 Markings

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

Manufacturer's name or mark	
Model number	
Serial number	
NSC approval number	NSC No 8/56
Maximum capacity L

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

2. Description of Variant 1

Model AS-VS and AS-VL in capacities as listed in Table 1.

TABLE 1

Model Number	Maximum Capacity (litres)	Number of legs	Minimum Graduation Size (litres)
AS-VS	5 400	5	20
AS-VS	6 700	5	20
AS-VS	8 000	5	20
AS-VS	9 200	5	20
AS-VS	10 600	5	20
AS-VS	11 800	5	20
AS-VS	13 100	5	20
AS-VS	15 700	5	20
AS-VL	22 000	7	50
AS-VL	25 000	7	50
AS-VL	30 000	7	50

TEST PROCEDURE

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

Maximum Permissible Error at Verification/Certification

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

FIGURE 8/56 - 1

