Australian Government

National Measurement Institute

12 Lyonpark Road, North Ryde NSW 2113

Cancellation

Certificate of

Approval No 8/77

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

This is to certify that the approval for use for trade granted in Certificate of Approval No 8/77 issued in respect of the

HME Model HMEFV18000H Milk Tank

submitted by Hendl & Murray Engineering
Tawa Street
Melville Hamilton
NEW ZEALAND

has been cancelled in respect of new instruments as from 1 April 2005.

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

National Standards Commission

Certificate of Approval

No 8/77

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

HME Model HMEFV18000H Milk Tank

submitted by Hendl & Murray Engineering Limited
Tawa Street
Merville Hamilton
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.

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CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 January 2003, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 8/77 and only by persons authorised by the submittor.

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 8 December 1997

- An HME model HMEFV18000H horizontal cylindrical refrigerated milk tank of 18 000 L capacity incorporating a sight-gauge for the measurement of the volume.

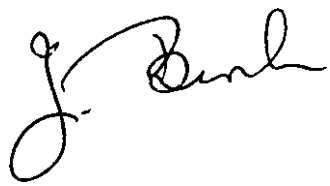
Technical Schedule No 8/77 describes the pattern.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 8/77 dated 18 June 1998
Technical Schedule No 8/77 dated 18 June 1998 (incl. Test Procedure)
Figures 1 and 2 dated 18 June 1998

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.



TECHNICAL SCHEDULE No 8/77

Pattern: HME Model HMEFV18000H Milk Tank.

Submittor: Hendl & Murray Engineering Limited
Tawa Street
Merville Hamilton
NEW ZEALAND.

1. Description of Pattern

An HME model HMEFV18000H horizontal cylindrical refrigerated milk tank of 18 000 L capacity incorporating a sight gauge for the measurement of volume.

1.1 Details

(i) The tank (Figures 1 and 2) 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 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 plastic 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 seal to be attached to the scale mounting assembly. The sight-tube is made of plastic complying with Australian Standard AS 2070 *Plastic materials for food contact use.*

The scale is graduated in 50 L increments.

A sight-gauge valve allows the milk to enter the sight-gauge and be isolated from the contents of the tank. 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 corner leg has provision for fixing the leg to the floor, and provision for sealing, 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

1.2 Verification/Certification Provision

Provision is made for 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 8/77
Maximum capacity	……..…… L

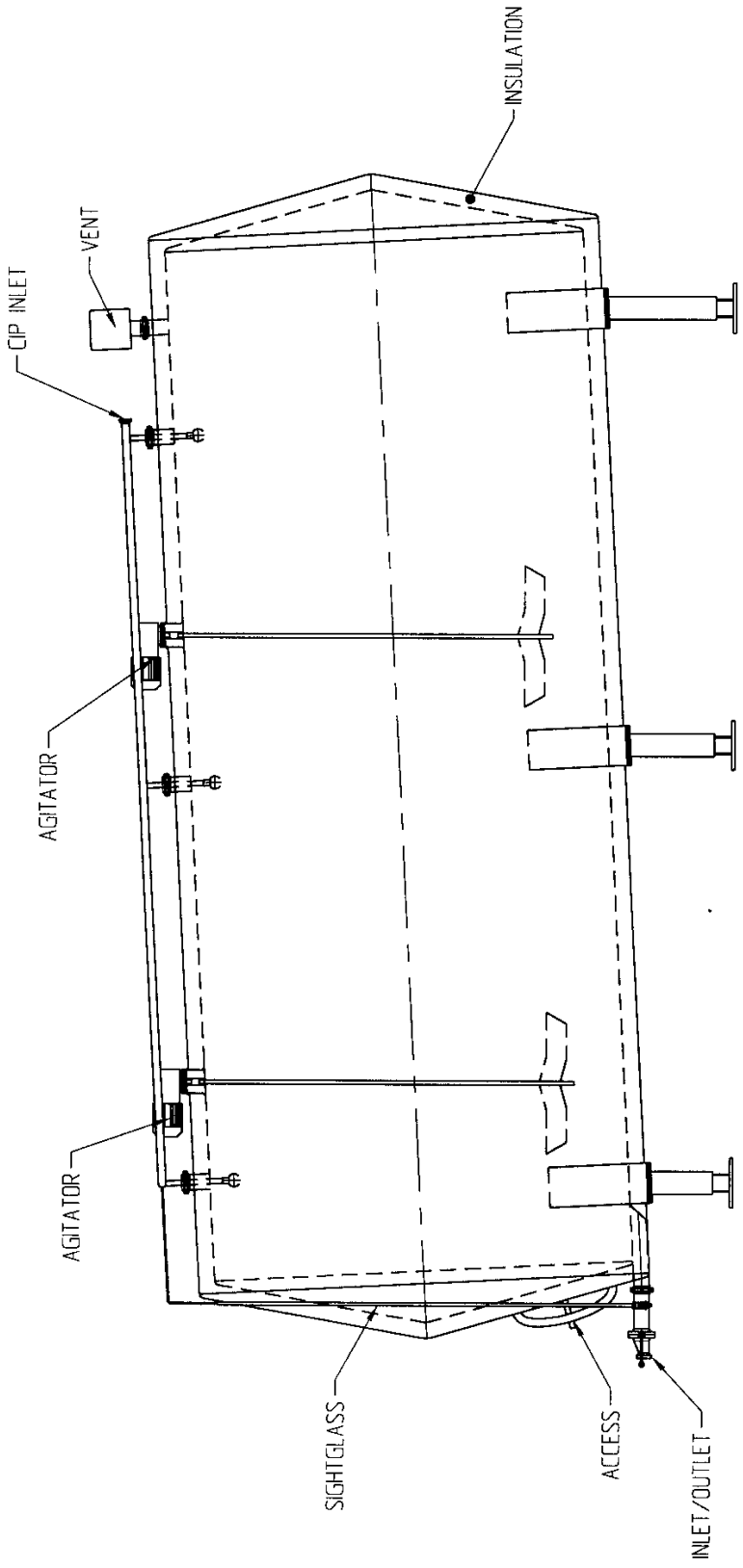
TEST PROCEDURE

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

Maximum Permissible Error at Verification/Certification

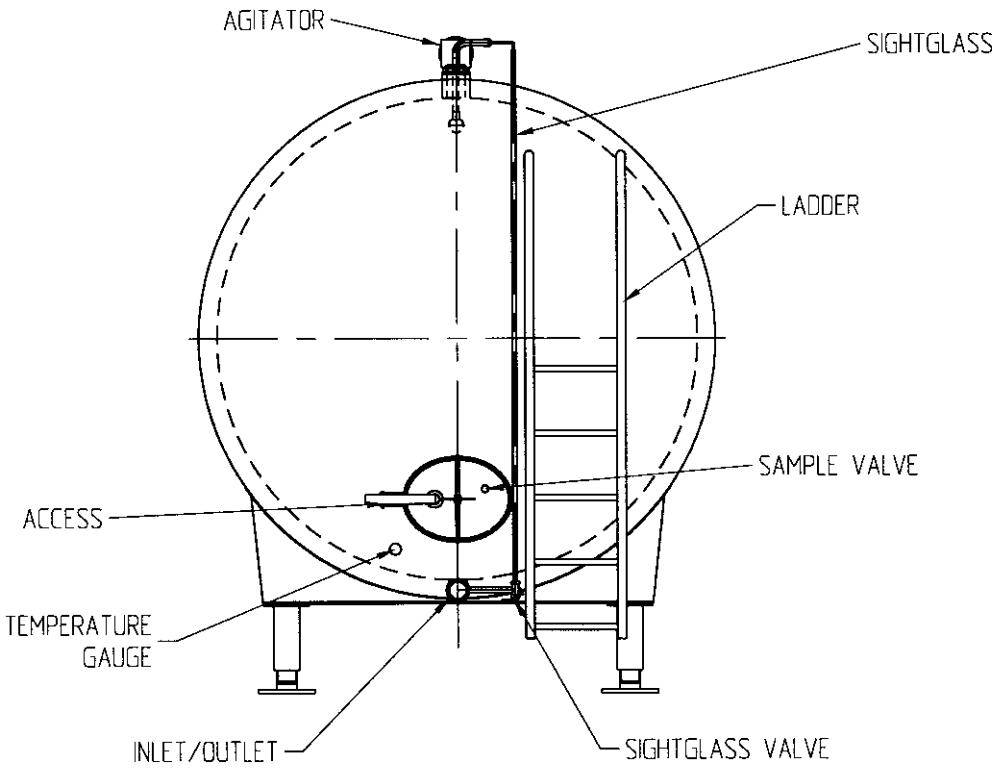
The maximum permissible error for farm milk tanks incorporating a sight-gauge is ±1 scale interval.

FIGURE 8/77 - 1



HME Model HMEFV18000H Milk Tank

FIGURE 8/77 -2



HME Model HMEFV18000H Milk Tank