8/74
7 May 2003

National Standards Commission

12 Lyonpark Road, North Ryde NSW

Cancellation

Certificate of Approval No 8/74

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

NDA Engineering Model FHV 96-A_A-T Milk Tank

submitted by NDA Engineering Pty Ltd
709 Te Rapa Road
Hamilton
NEW ZEALAND

has been cancelled in respect of new instruments as from 1 July 2003.

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.

National Standards Commission

Certificate of Approval

No 8/74

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

NDA Engineering Model FHV 96-A__A-T Milk Tank

submitted by NDA Engineering Group
709 Te Rapa Road
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.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 February 2002, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 8/74 and only by persons authorised by the submittor.

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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 13 January 1997

- An NDA Engineering model FHV 96-A__A-T milk tank.

Variant: approved 13 January 1997

1. Models and capacities as listed in Table 1.

Technical Schedule No 8/74 describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 8/74 dated 17 March 1997
Technical Schedule No 8/74 dated 17 March 1997 (incl. Table 1 and Test Procedure)
Figures 1 and 2 dated 17 March 1997

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.

National Standards Commission

TECHNICAL SCHEDULE No 8/74

Pattern: NDA Engineering Model FHV 96-A__A-T Milk Tank.

Submittor: NDA Engineering Group
709 Te Rapa Road
Hamilton New Zealand.

1. Description of Pattern

The pattern is an NDA model FHV 96-A__A-T horizontal refrigerated milk tank of 5200 L capacity (Figures 1 & 2, and Table 1) incorporating a sight-gauge for the measurement of volume.

1.1 Details

(i) The tank is a horizontal stainless steel vessel 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 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 channel fixed to the side of the tank adjacent to a stainless steel scale. The scale has provision for a lead wire seal to be attached to the scale mounting assembly. The sight-tube is made of plastic.

(iii) The sight-gauge is graduated in 20 L increments.

(iv) Levelling is effected by means of 4 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 provision for sealing, after levelling.

(v) Provision is made for a CIP (clean-in-place) system for both the tank and the sight-gauge.

(vi) Access for inspection is provided by either a top entry opening or a front entry opening.

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1.2 Verification/Certification Provision

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

1.3 Markings

(a) 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 8/74
Maximum capacity	 L

2. Description of Variant 1

Models and capacities as listed in Table 1.

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 milk tanks incorporating a sight-gauge is ±1 scale interval.

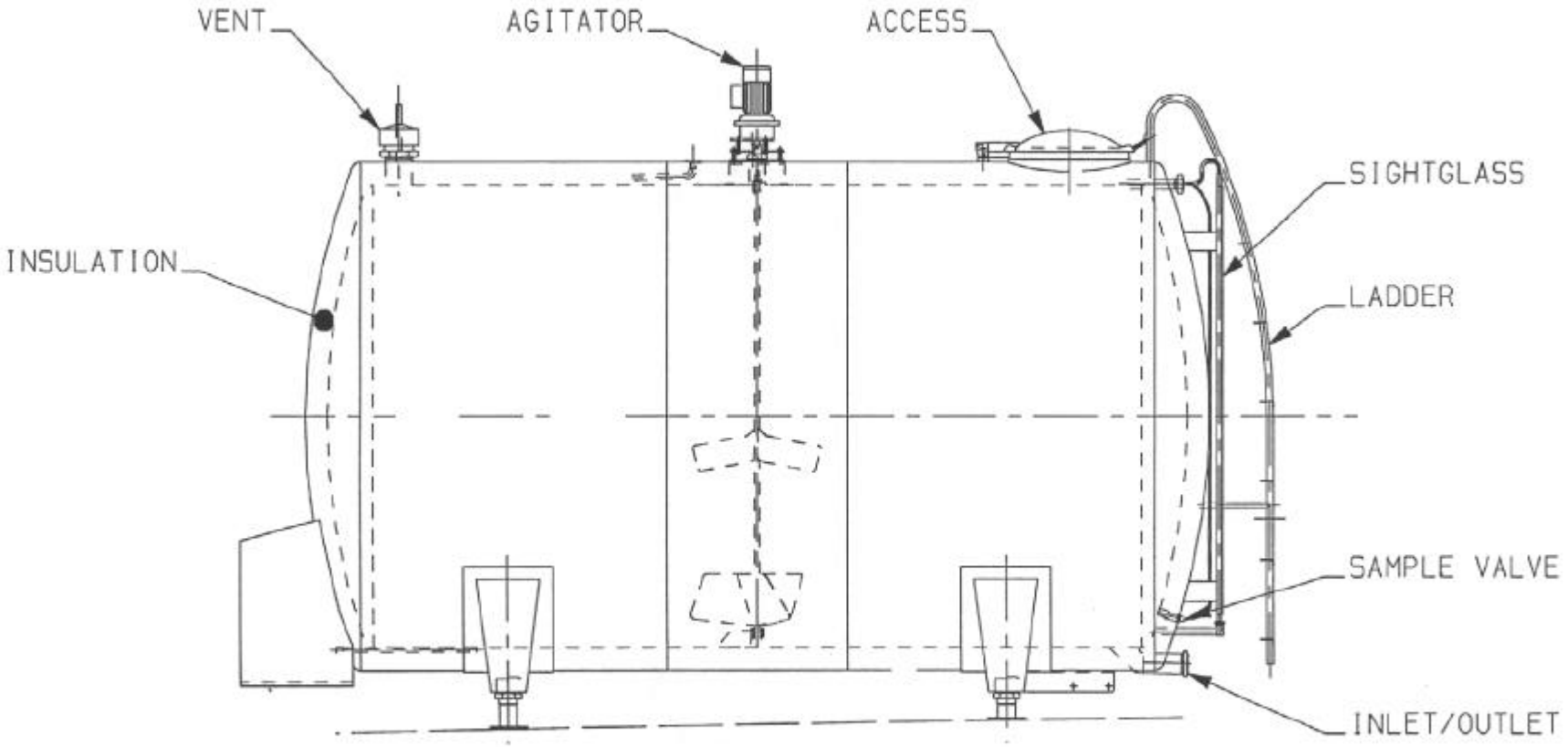
TABLE 1

Model Number	Maximum Capacity (litres)	Number of Legs	Scale Interval (litres)
FHV 96-A__A-*	5 200	4	20
FHV 96-A__C-*	6 600	4	20
FHV 96-B__A-*	7 600	4	20
FHV 96-B__C-*	8 600	4	20
FHV 96-B__E-*	10 500	4	50
FHV 96-B__F-*	11 900	4	50
FHV 96-B__G-*	12 600	6	50
FHV 96-B__H-*	14 000	6	50
FHV 96-C__A-*	15 600	4	50
FHV 96-C__B-*	17 800	4	50
FHV 96-C__C-*	18 800	6	50
FHV 96-C__D-* (#)	22 000	6	50
FHV 96-D__A-* (#)	22 000	6	50
FHV 96-D__B-*	24 900	6	50
FHV 96-D__C-*	26 300	6	50
FHV 96-D__D-*	30 600	6	50

* This is either a ‘T’ (denoting top entry access) or an ‘E’ (denoting front entry access).

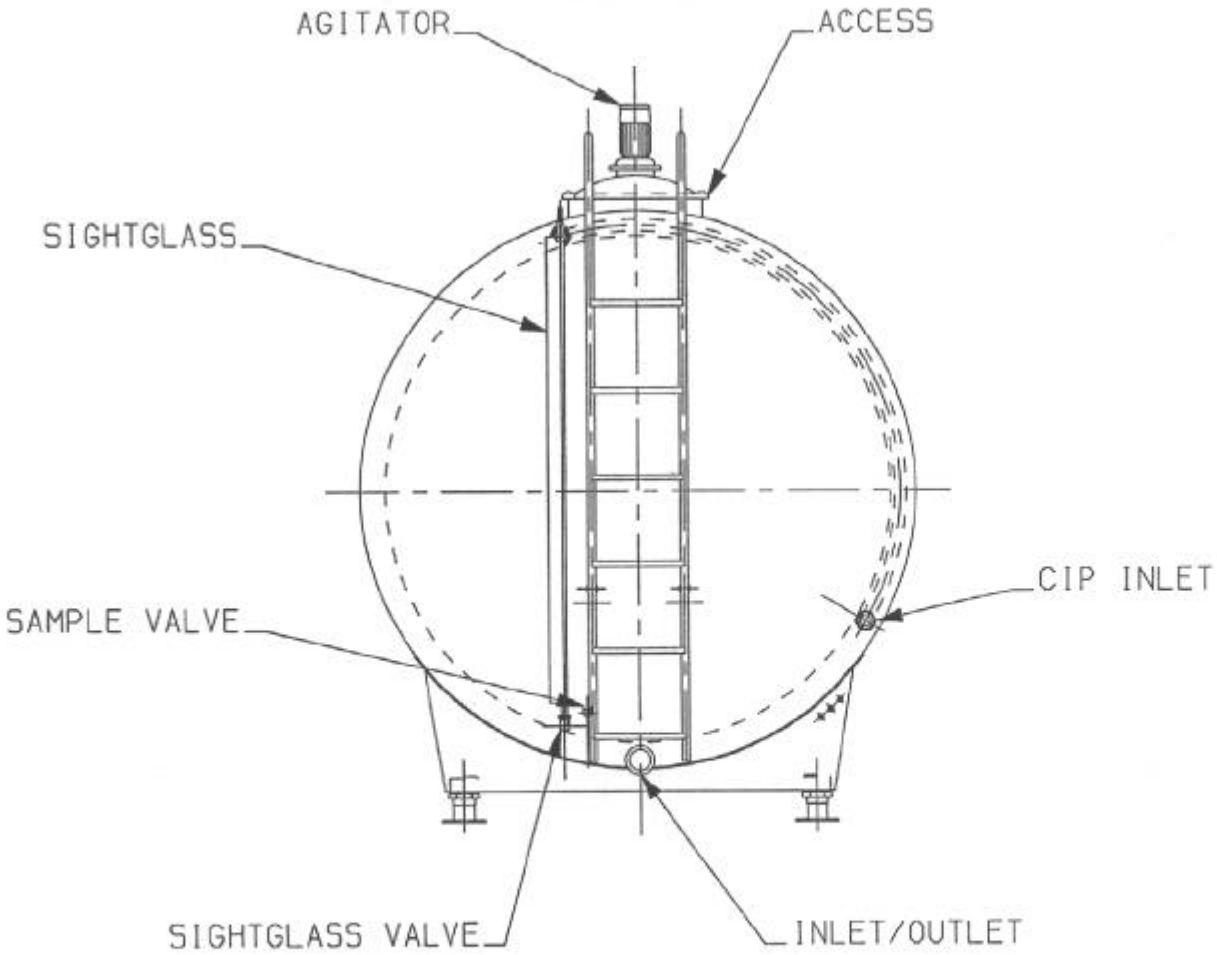
(#) These models have different internal dimensions but the same capacity.

FIGURE 8/74 – 1



NDA Engineering Model FHV 96-A__A-T Milk Tank

FIGURE 8/74 – 2



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