

8/39A  
7 May 2003



## National Standards Commission

12 Lyonpark Road, North Ryde NSW

### Cancellation

### Certificate of Approval No 8/39A

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

NDA Engineering Model FHT 93 Mk1 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.

A handwritten signature in black ink, appearing to be 'J. H. T.', written on a light-colored background.

# National Standards Commission



## Certificate of Approval

**No 8/39A**

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 FHT 93 Mkl Milk Tank

submitted by NDA Engineering Ltd  
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.

This Certificate is issued upon completion of a review of NSC approval No 8/39.

### CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 March 2001, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 8/39A 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 23 February 1996

- An NDA Engineering model FHT 93 Mkl vertical milk tank of 5 060 L capacity incorporating a sight-gauge for the measurement of the volume.

**Variants:** approved 23 February 1996

1. In capacities as listed in Tables 1 and 2.

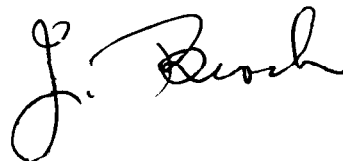
Technical Schedule No 8/39A describes the pattern and variant 1.

#### FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 8/39A dated 25 September 1996  
Technical Schedule No 8/39A dated 25 September 1996 (incl. Tables 1 &  
2, and Test Procedure)  
Figures 1 and 2 dated 25 September 1996

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 8/39A

**Pattern:** NDA Engineering Model FHT 93 Mkl Milk Tank.

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

#### 1. Description of Pattern

An NDA Engineering model FHT 93 Mkl vertical cylindrical refrigerated milk tank of 5 060 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 tank bottom slopes towards the outlet valve.

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 2) and comprises a transparent plasticised PVC 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 is graduated in 20 L increments.

- (iii) 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 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 or top entry opening.

## 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 8/39A
Maximum capacity	..... L

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

## 2. Description of Variant 1

In capacities as listed in Tables 1 and 2.

All instruments have the sight-gauge scale graduated in 20 L increments.

TABLE 1

Diameter (Metres)	Maximum Capacity (Litres)	Number of Legs
2.3375	5 060	4
2.3375	5 700	4
2.3375	6 800	4
2.3375	8 000	4
2.3375	9 100	4
2.3375	10 000	5
2.3375	11 000	5
2.3375	12 000	5
2.3375	13 000	5
2.3375	14 000	5
2.3375	15 000	5
2.3375	16 000	5
2.3375	18 000	5
2.3375	20 000	5

TABLE 2

Diameter (Metres)	Maximum Capacity (Litres)	Number of Legs
2.8750	6 500	4
2.8750	8 500	4
2.8750	11 000	5
2.8750	14 000	5
2.8750	16 000	7
2.8750	18 000	7
2.8750	19 000	7
2.8750	20 000	7
2.8750	22 000	7
2.8750	25 000	7
2.8750	30 000	7

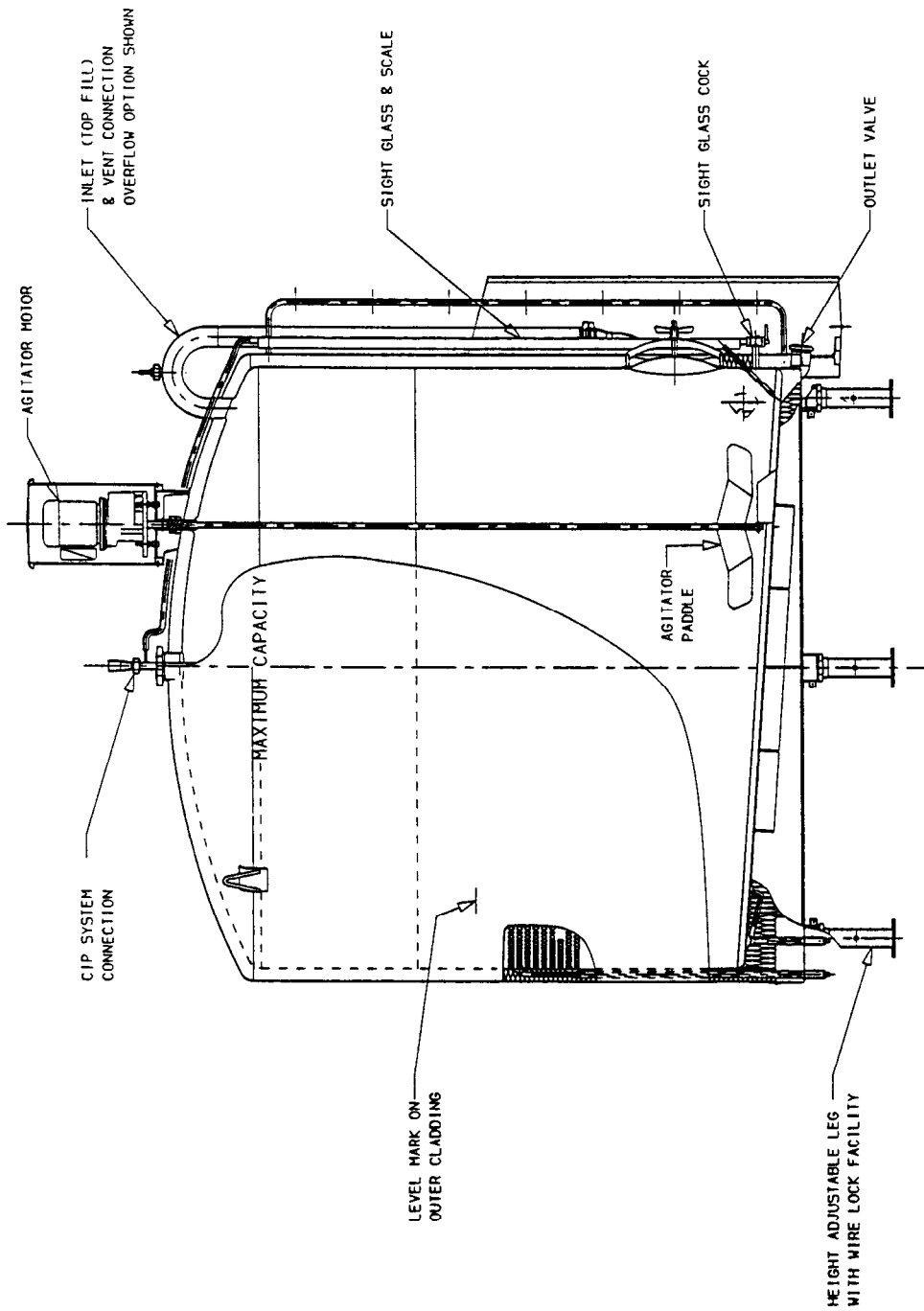
#### TEST PROCEDURE

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

#### **Maximum Permissible Error at Verification/Certification**

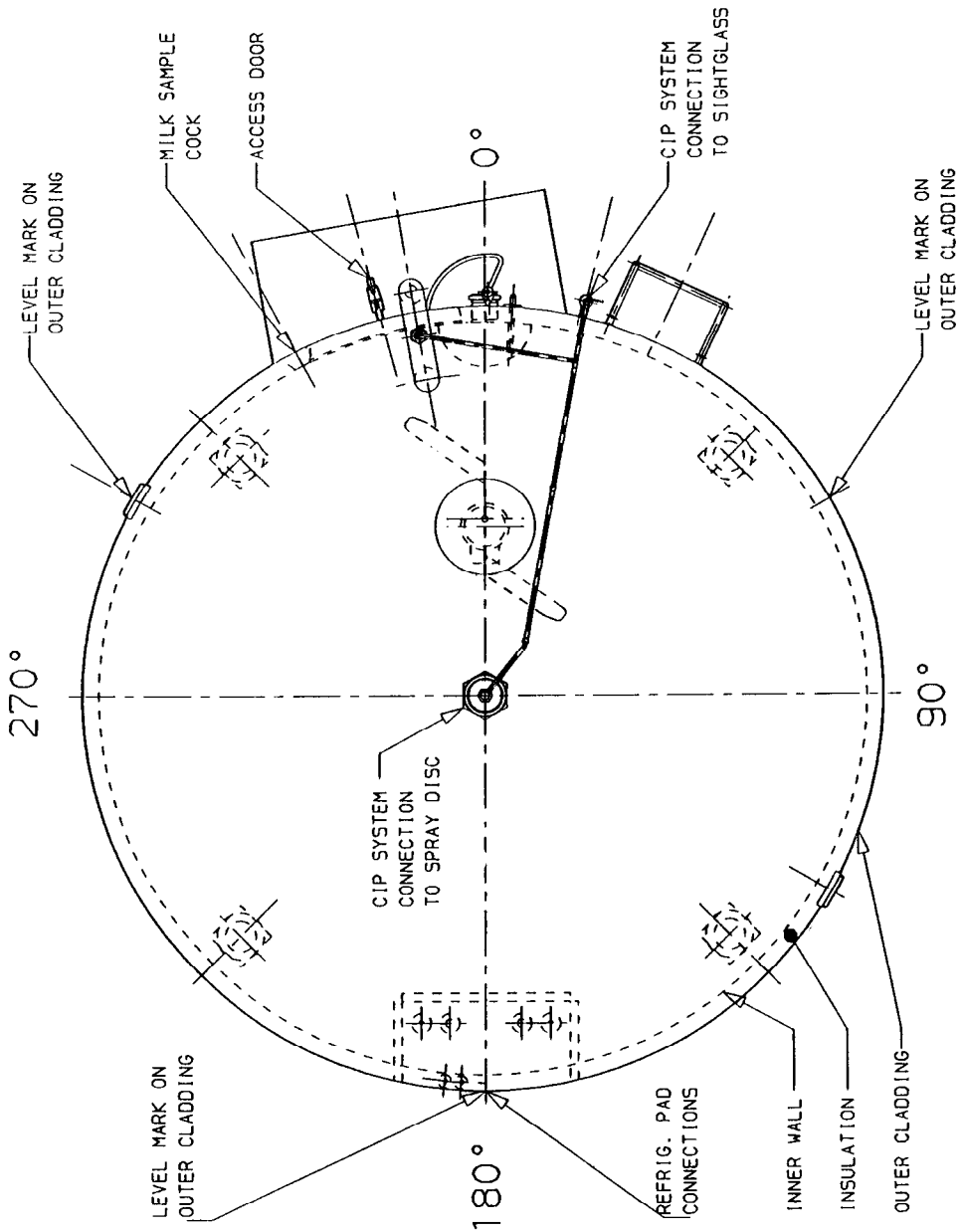
The maximum permissible error at verification/certification for milk tanks incorporating a sight-gauge is  $\pm 1$  scale interval.

FIGURE 8/39A - 1



NDA Model FHT 93 Mkl Milk Tank - Typical

FIGURE 8/39A - 2



NDA Model FHT 93 Mkl Milk Tank - Typical