

National Standards Commission



Certificate of Approval

No 8/37A

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

Furphy Model FS 88/12 Milk Tank

submitted by J Furphy & Sons Pty Ltd
New Dookie Road
Shepparton VIC 3630.

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 8/37.

CONDITIONS OF APPROVAL

This approval is subject to review on or after 1 March 1999.
This approval expires in respect of new instruments on 1 March 2000.

Instruments purporting to comply with this approval shall be marked NSC No 8/37A and only by persons authorised by the submittor.

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 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 9 February 1994

- A Furphy model FS 88/12 refrigerated milk tank of 12 000 L capacity.

Variant: approved 9 February 1994

1. In other models and capacities as listed in Table 1.

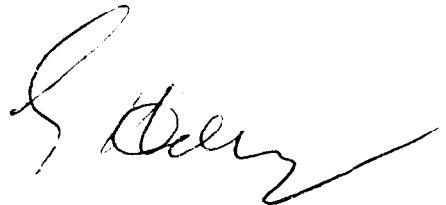
Technical Schedule No 8/37A describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 8/37A dated 21 November 1994
Technical Schedule No 8/37A dated 21 November 1994 (incl. Table 1 and
Test Procedure)
Figures 1 to 3 dated 21 November 1994

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 8/37A

Pattern: Furphy Model FS 88/12 Milk Tank.

Submittor: J Furphy & Sons Pty Ltd
New Dookie Road
Shepparton VIC 3630.

1. Description of Pattern

A Furphy model FS 88/12 vertical cylindrical refrigerated milk tank of 12 000 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.

A milk-sampling valve may be fitted to the tank.

- (ii) A single 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 channel fixed to the side of the tank adjacent to a stainless steel scale (Figures 2 and 3).

The sight-tube is made of a suitable plastic material.

The scale has provision for a suitable seal to be attached to the scale mounting assembly.

The scale is graduated in 20 L increments.

The sight-gauge valve allows the milk to enter the sight-gauge and be isolated from the contents of the tank. An additional valve is located at the bottom of the sight-gauge which allows the milk in the sight-gauge and the interconnected pipe between the outlet valve and 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 a suitable seal to be attached, after levelling. Alternatively, a Roman level device may be permanently fixed to the tank, for indicating the reference position of the tank, in which case fixing the legs to the floor is not required.

The Roman level is in the form of a rigid 'U' tube with each end of the tube positioned adjacent to one of the datum level marks on the tank. One end of the Roman level tube is located not greater than 50 mm from the sight-gauge and the other end is located on the opposite side of the tank.

- (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 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 8/37A
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

Other models and capacities as listed in Table 1.

TABLE 1

Model Number	Maximum Capacity (litres)	Number of legs	Maximum Scale Interval (litres)
FS 88/8	8 000	6	20
FS 88/12	12 000	6	20
FS 88/16	16 000	6	20
FS 88/17	17 000	10	50
FS 88/22	22 000	10	50
FS 88/25	25 000	10	50
FS 88/30	30 000	10	50

Approved Models and Capacities

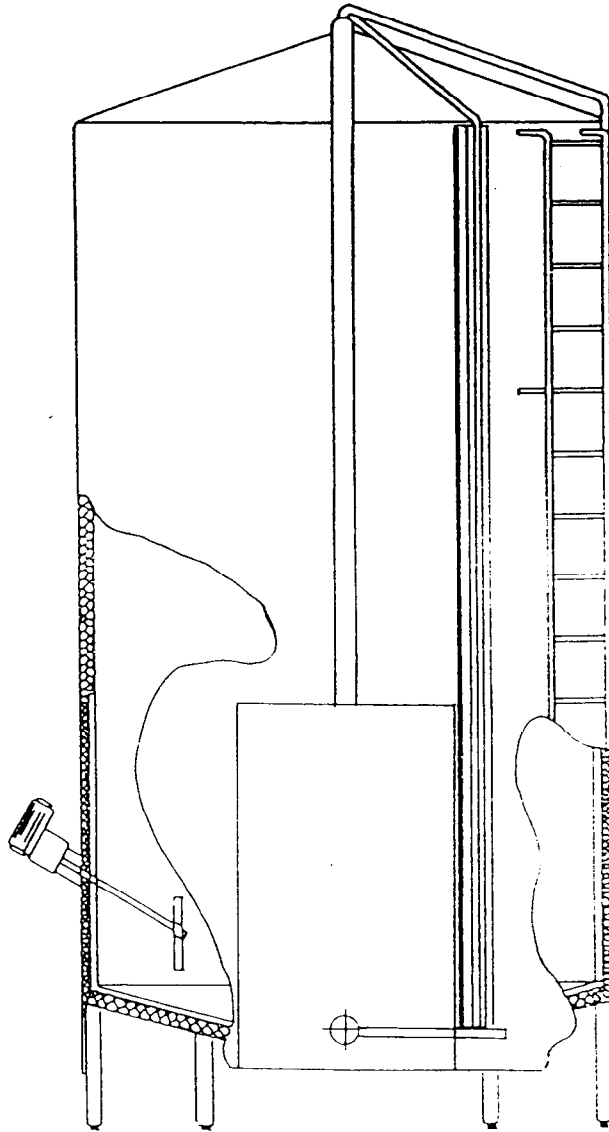
TEST PROCEDURE

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

Maximum Permissible Error at Verification/Certification

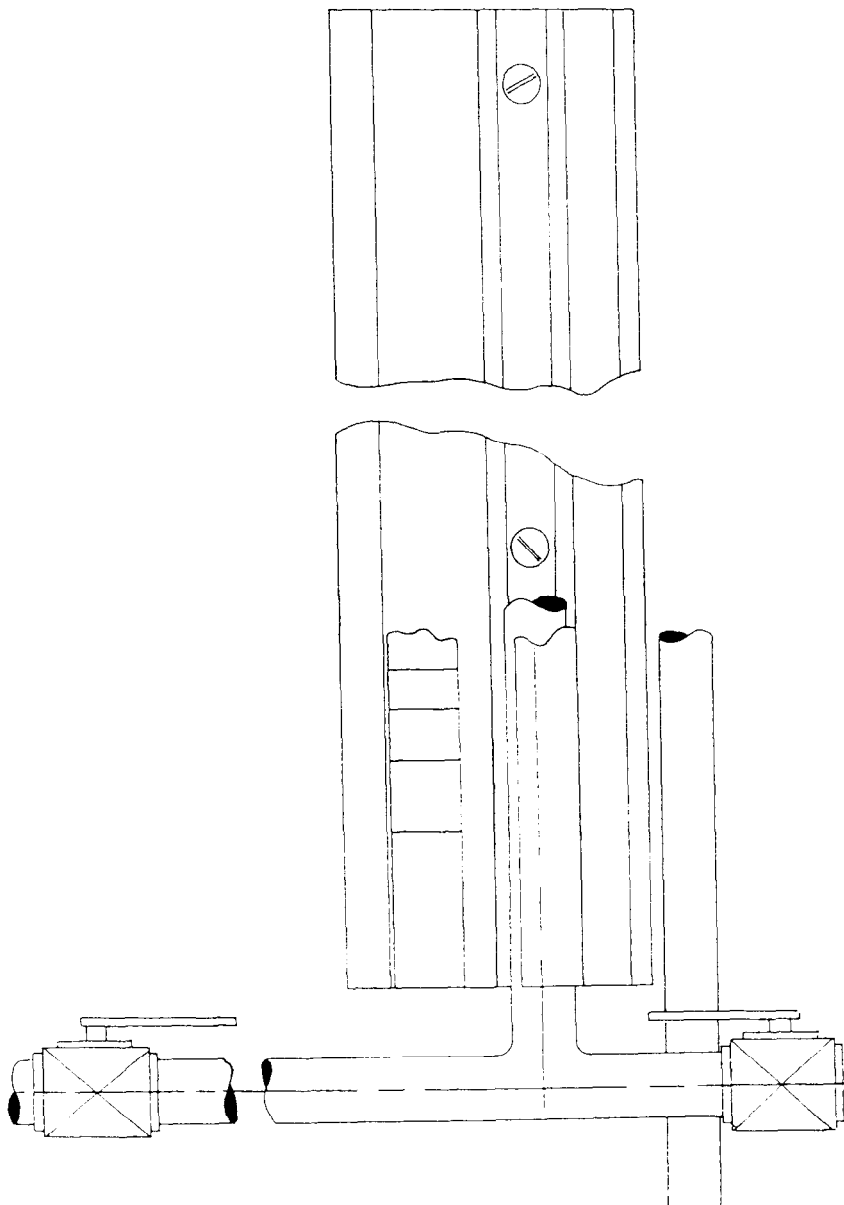
The maximum permissible error at verification/certification for milk tanks incorporating a sight-gauge is ± 1 scale interval.

FIGURE 8/37A - 1



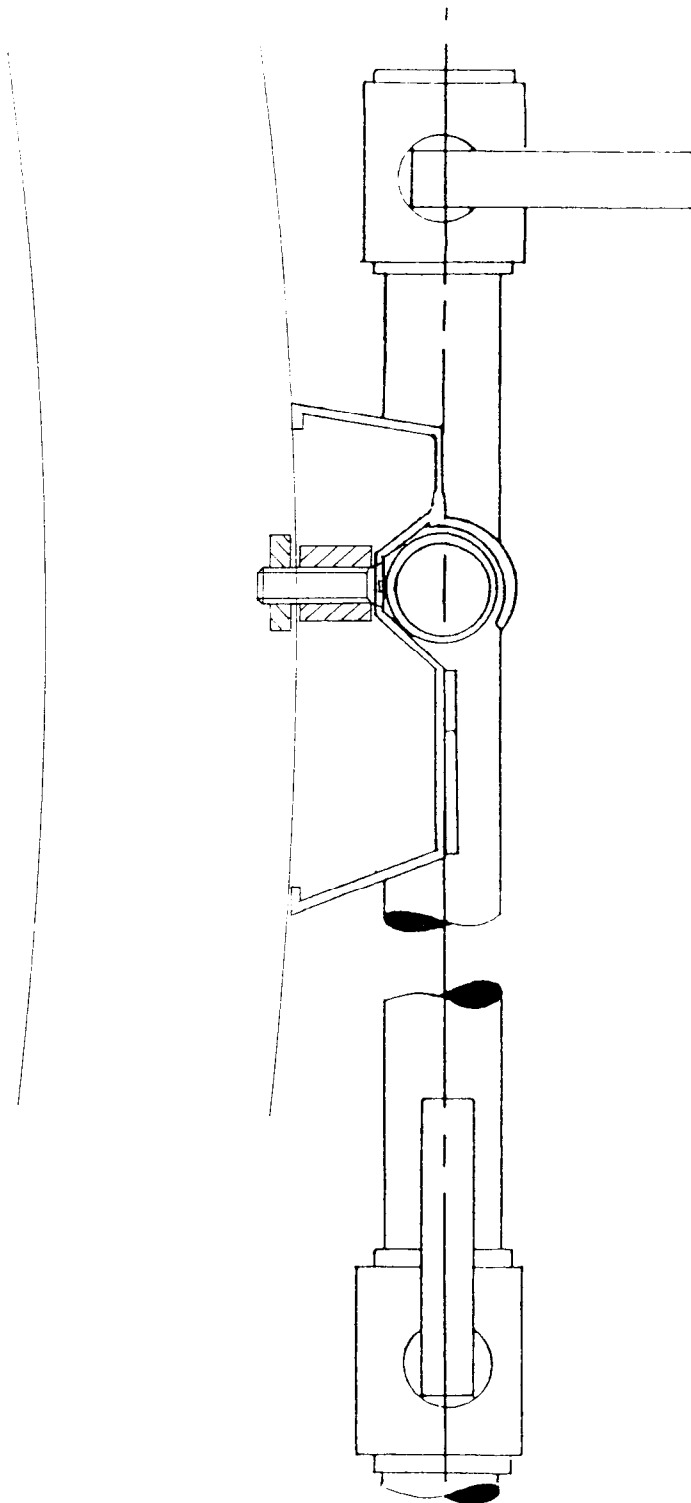
Furphy Model 88/12 Milk Tank

FIGURE 8/37A - 2



Showing Sight-tube and Valves

FIGURE 8/37A - 3



Showing Mounting of Sight-tube