



Australian Government

**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Cancellation
Certificate of Approval No 4/5/16A

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 respect of the

ITW Model ETN4 Spirit Dispenser

submitted by ITW Fastex New Zealand
7 Charann Place
Avondale Auckland 7
New Zealand

has been cancelled in respect of new instruments as from 1 September 2006.

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

A handwritten signature in black ink, appearing to be the initials "JFT" with a large, stylized flourish extending downwards.



Australian Government

National Standards Commission

12 Lyonpark Road, North Ryde NSW 2113 Australia

Certificate of Approval

No 4/5/16A

Issued under Regulation 60
of the
National Measurement Regulations 1999

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

ITW Model ETN4 Spirit Dispenser

submitted by ITW Fastex New Zealand
7 Charann Place
Avondale Auckland 7
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 November 2004, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 4/5/16A 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 NSC P 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 October 1999

- An ITW model ETN4 bottle-mounted spirit dispenser of 15 mL capacity.

Variants: approved 13 October 1999

1. Of 30 mL capacity.
2. With a remote-storage spirit supply.

Technical Schedule No 4/5/16A describes the pattern and variants 1 & 2.

Variant: approved 10 April 2003

3. With an alternate circuit board and known as the ETN4A series.

Technical Schedule No 4/5/16A Variation No 1 describes variant 3.

Variant: approved 26 February 2004

4. With a modified reservoir.

Technical Schedule No 4/5/16A Variation No 2 describes variant 4.

FILING ADVICE

Certificate of Approval No 4/5/16A dated 15 August 2003 is superseded by this Certificate, and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 4/5/16A dated 29 April 2004
Technical Schedule No 4/5/16A dated 20 January 2000 (incl. Test Procedure)
Technical Schedule No 4/5/16A Variation No 1 dated 15 August 2003
Technical Schedule No 4/5/16A Variation No 2 dated 29 April 2004
Figures 1 to 6 dated 20 January 2000
Figure 7 dated 29 April 2004

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.



TECHNICAL SCHEDULE No 4/5/16A

Pattern: ITW Model ETN4 Spirit Dispenser.

Submittor: ITW Fastex New Zealand
7 Charann Place
Avondale Auckland 7
New Zealand

1. Description of Pattern

The pattern is an ITW model ETN4 single-delivery push-button-activated bottle-mounted spirit dispenser (Figure 1) for the measurement of 15 mL of brandy (including cognac and armagnac), gin, rum, vodka, or whisky (whiskey).

The pattern consists of a measuring chamber (Figure 2) with a solenoid-operated internal valving arrangement. The manual push-button, an electronic timing mechanism, and a low liquid level detector in the reservoir above the chamber, control the solenoid to ensure that a delivery, once started, cannot be stopped by the operator until completed and that the next delivery cannot be started until the measuring chamber is full. This is indicated by a single tri-colour LED, which also indicates the instrument's operational status.

NOTE: The measuring chamber (Figure 2) may be replaced as a complete sealed and verified unit.

1.1 Operation

The removable bottle adaptor with a valve between the measuring chamber and the bottle allows bottles to be replaced without removing the dispenser from its mount. A resettable digital counter is fitted which displays up to 999 deliveries.

1.2 Power Supply

The power supply (Figure 3) may control up to 30 dispensers. The power supply incorporates two lockable key switches, one to supply power to the dispenser and the other for resetting the counter.

1.3 Verification/Certification Provision

Provision is made for verification/certification marks to be applied to both the main body and to the removeable measuring chamber.

1.4 Markings

The displacement spacer and the measuring chamber of the instrument are clearly and permanently marked '15 mL'. In addition, the instrument is clearly marked, either on a permanently attached nameplate or as part of the instrument, with the following information:

Manufacturer's mark, or name written in full
Serial number of the instrument
Pattern approval mark for the instrument	NSC No 4/5/16A
Quantity mL

1.5 Sealing Provision

Provision is made for sealing of the calibration adjustments by sealing the flat disc and sealing lug provided on the underside of the measuring chamber (Figure 4), by means of either a destructive label or by wire and seal.

2. Description of Variants

2.1 Variant 1

Of 30 mL capacity (Figure 5) incorporating a displacement spacer having a smaller diameter than that of the pattern.

2.2 Variant 2

With the removable bottle adaptor described for the pattern replaced by a bulk adaptor (Figure 6) which allows spirit to be supplied from a remote storage tank.

Spirit from the remote storage tank is supplied to the adaptor through a solenoid-operated valve in the adaptor. The valve is controlled by three level sensing probes which ensure that the reservoir above the measuring chamber is filled with spirit before a delivery commences.

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 errors applied at verification/certification are:

- ±0.6 mL for deliveries of 15 mL; and
- ±1.0 mL for deliveries of 30 mL.

TECHNICAL SCHEDULE No 4/5/16A

VARIATION No 1

Pattern: ITW Model ETN4 Spirit Dispenser

Submittor: ITW Fastex New Zealand
7 Charann Place
Avondale Auckland 7
New Zealand

1. Description of Variant 3

With an alternate circuit board and known as the ETN4A series comprising:

- (a) a model ETN4A 15 mL of 15 mL capacity;
- (b) a model ETN4A 30 mL of 30 mL capacity;
- (c) a model ETN4A 15 mL ETN4 BULK of 15 mL capacity; and
- (d) a model ETN4A 30 mL ETN4 BULK of 30 mL capacity.

Items (c) and (d) above have the removable bottle adaptor described for the pattern replaced by a bulk adaptor (Figure 6) which allows spirit to be supplied from a remote storage tank.

Spirit from the remote storage tank is supplied to the adaptor through a solenoid-operated valve in the adaptor. The valve is controlled by three level sensing probes which ensure that the reservoir above the measuring chamber is filled with spirit before a delivery commences.

TECHNICAL SCHEDULE No 4/5/16A

VARIATION No 2

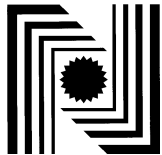
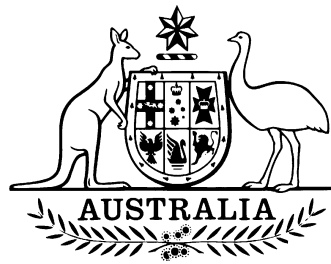
Pattern: ITW Model ETN4 Spirit Dispenser

Submittor: ITW Fastex New Zealand
7 Charann Place
Avondale Auckland 7
New Zealand.

1. Description of Variant 4

The ITW model ETN4 or ETN4A with minor modifications inside the reservoir (Figure 7) in which case instruments are marked 'V4' as shown.

4/5/16A
28 September 2001



National Standards Commission

12 Lyonpark Road, North Ryde NSW

Notification of Change

Certificate of Approval No 4/5/16A

Change No 1

The following change is made to the approval documentation for the

ITW Model ETN4 Spirit Dispenser

submitted by ITW Fastex New Zealand
7 Charann Place
Avondale Auckland 7
New Zealand.

In Technical Schedule No 4/5/16A dated 20 January 2000, clause 1. **Description of Pattern** should be amended by adding the following:

“Instruments may be fitted with a wire from the solenoid coil connection on the circuit board to allow transfer of pulse information to an area controller. The controller converts the pulse information into programmed information for downloading to a bar management system.”

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FIGURE 4/5/16A - 1



ITW Model ETN4 15 mL Spirit Dispenser

FIGURE 4/5/16A - 2



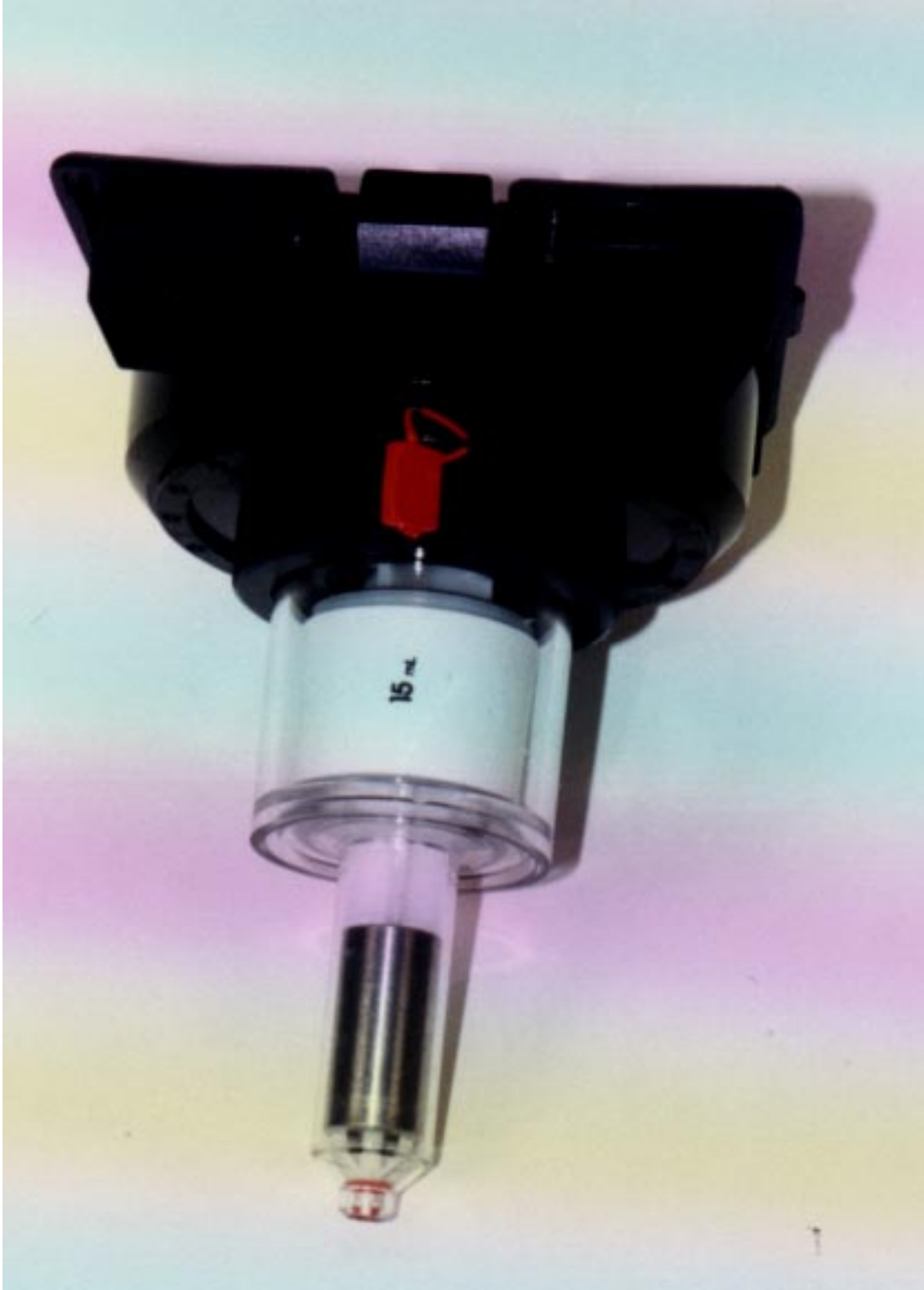
Measuring Chamber

FIGURE 4/5/16A - 3



Power Supply

FIGURE 4/5/16A - 4



Sealing Method

FIGURE 4/5/16A - 5



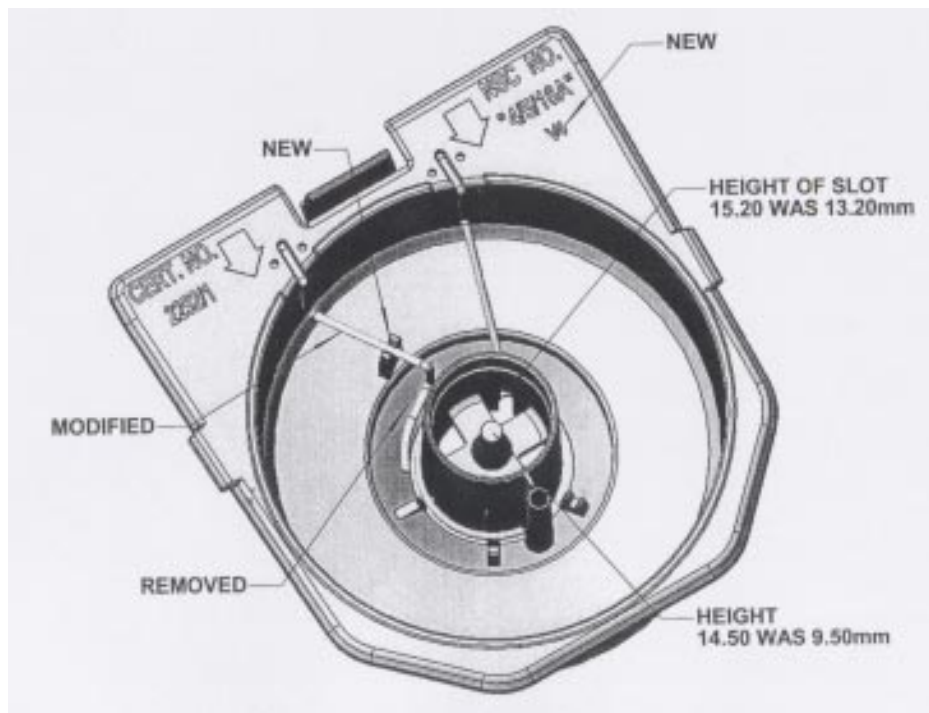
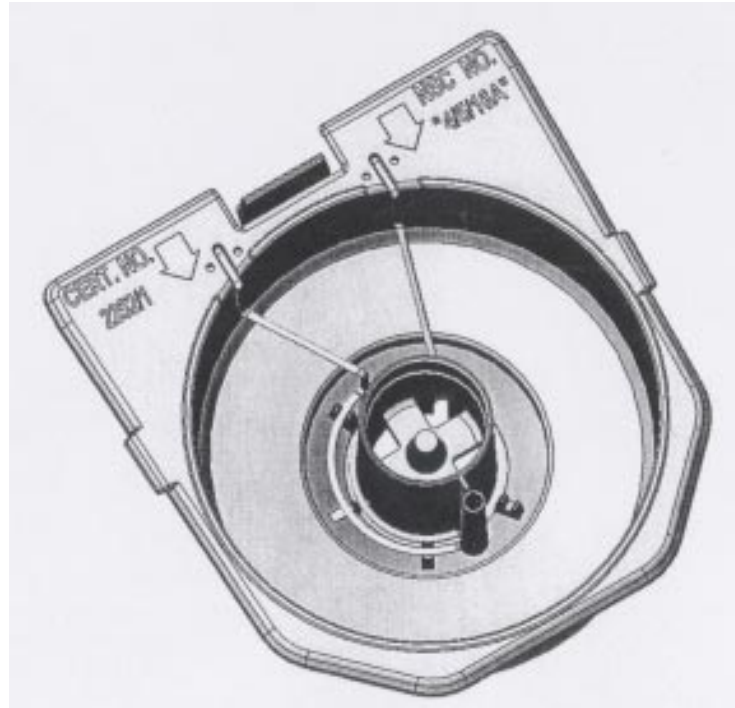
ITW Model ETN4 30 mL Spirit Dispenser

FIGURE 4/5/16A - 6



With Bulk Storage Adaptor

FIGURE 4/5/16A – 7



Showing Reservoir Modifications – Variant 4