



Australian Government

National Measurement
Institute

Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

NMI 4/5/20

Issued by the Chief Metrologist 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 instruments herein described.

Tap Systems Model TAP 3000-6 Spirit Dispenser

submitted by Measure Man
 (formerly submitted by LJB Solutions Pty Ltd)
 5 Ekert Court
 Mount Martha VIC 3934

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 approval has been granted with reference to document NMI M 2, *Pattern Approval Specifications for Beverage Dispensers*, dated June 2004.

This approval becomes subject to review on **1/01/17**, and then every 5 years thereafter.

DOCUMENT HISTORY

| Rev | Reason/Details | Date |
|-----|---|----------|
| 0 | Pattern & variants 1 to 3 approved – interim certificate issued | 11/12/06 |
| 1 | Pattern & variants 1 to 3 approved – certificate issued | 25/01/07 |
| 2 | Variant 4 approved – certificate issued | 2/10/07 |
| 3 | Pattern & variants 1 to 4 reviewed & updated – certificate issued | 7/06/12 |
| | | |

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI 4/5/20' and only by persons authorised by the submitter.

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 National Measurement Institute (NMI) 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 document NMI P 106.

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, consisting of stylized cursive letters, positioned to the right of the signature text.

TECHNICAL SCHEDULE No 4/5/20

1. Description of Pattern **approved on 11/12/06**

The pattern is a Tap Systems model TAP 3000-6 single delivery push-button activated bottle-mounted spirit dispenser (Figure 1) for the measurement of 30 mL of certain spirits.

1.1 Field of Operation

The field of operation of the measuring system includes:

- Approved for dispensing brandy (including cognac and armagnac), gin, rum, vodka, or whisky (whiskey)
- Designed to dispense a pre-set quantity of 30 mL
- Ambient temperature range 5°C to 40°C
- The dispenser operates at a nominal voltage of 32 V AC
- Power pack input voltage range 204 V to 264 V

1.2 Instrument Description

The instrument has six (6) dispensers fitted to a wall-mounted rack (Figure 1) and includes the following:

- A bottle spout (Figure 2a) with reservoir and internal sensors for 'last nip lockout'; the spout is the transfer point.
- A spout holder with solenoid actuating coils (Figure 2b); the holder has an LED situated at the bottom of the holder which indicates the status of the delivery.
- A push-type lever switch for activating the delivery.
- A counter may also be fitted, which is not approved for trade use.
- A key which mechanically locks the spouts in place (Figure 3).
- Instruments may be fitted with an external connector (Figure 4) which allows the transfer of information to a bar management.

1.3 Operation

The operation of the instrument is automatically-controlled to ensure that a delivery once started cannot be stopped by the operator until the delivery is completed, and the next delivery cannot be started until the reservoir is full of liquor covering the level sensing probes.

Positioning the receiving glassware under the transfer point and against the push-type lever switch activates the delivery.

1.4 Power Supply

The dispenser operates at a nominal voltage of 32 V AC supplied by a Noratel Type LF84B-22032_GS power supply with 240 V AC input and a 32 V AC/4.6 A output. The submitter should be consulted regarding the acceptability of alternative power supplies.

1.5 Descriptive Markings and Notices

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 | Tap Systems AS, Denmark |
| Serial number | |
| Pattern approval number | NMI 4/5/20 |
| Quantity | mL (#) |
| Model designation | |
| Year of manufacture | |

(#) The instrument is clearly and permanently marked '... mL', as appropriate, in one or more locations clearly visible to the operator and to the customer.

1.6 Verification Provision

Provision is made for the application of a verification mark.

1.7 Sealing Provision

The case components are joined during manufacture and access to the calibration points requires destruction of the case, therefore no other sealing is required.

2. Description of Variant 1 approved on 11/12/06

The system designed to dispense 15 mL deliveries.

3. Description of Variant 2 approved on 11/12/06

For use with bourbon.

4. Description of Variant 3 approved on 11/12/06

Other models of the Tap 3000 series where the '-*' suffix indicates the number of individual dispensers mounted on the same rack, e.g, the pattern (model 3000-6) has 6 dispensers while the model TAP 3000-12 has 12 dispensers.

5. Description of Variant 4 approved on 28/09/07

With the low liquid level sensing probes now located at the base of the spout holder.

TEST PROCEDURE No 4/5/20

Instruments shall be tested in accordance with any relevant tests specified in the National Instrument Test Procedures.

Maximum Permissible Errors

The maximum permissible errors are specified in Schedule 1 of the *National Trade Measurement Regulations 2009*.

FIGURE 4/5/20 – 1



Tap Systems Model TAP 3000-6 Spirit Dispenser

FIGURE 4/5/20 – 2



(a) Tap Systems Bottle Spout



(b) Tap Systems Bottle Holder

FIGURE 4/5/20 – 3



Spout Locking-key

FIGURE 4/5/20 – 4



Bar Management System Connector

~ End of Document ~