



**Australian Government**  

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**National Measurement  
Institute**

12 Lyonpark Road, North Ryde NSW 2113

**Instrument Certificate of Approval**

**No 5/6S/11**

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

AVT Model AVC-202 Remote-storage Spirit Dispenser

submitted by Absolute Volume Technologies P/L  
2-121 Cabarita Road  
AVALON NSW 2107.

**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 expires in respect of new instruments on 1 December 2004.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI 5/6S/11' 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.

The National Measurement Institute reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

**Special Conditions of Approval:**

This approval is limited to the instruments at the following two (2) locations: Epping Hotel, Epping NSW, and Manly Wharf Hotel, Manly NSW.

DESCRIPTIVE ADVICE

**Pattern:** approved 23 July 2004

- An AVT model ACV-202 remote-storage spirit dispenser designed to dispense a quantity of 30 mL per delivery.

**Variant:** approved 23 July 2004

1. Designed to dispense a quantity of 15 mL per delivery.

Technical Schedule No 5/6S/11 describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval comprises:

Instrument Certificate of Approval No 5/6S/11 dated 27 July 2004

Technical Schedule No 5/6S/11 dated 27 July 2004 (incl. Test Procedure)

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 'J. G. T.', located in the bottom right corner of the page.

## TECHNICAL SCHEDULE No 5/6S/11

**Pattern:** AVT Model AVC-202 Remote-storage Spirit Dispenser

**Submittor:** Absolute Volume Technologies P/L  
2-121 Cabarita Road  
AVALON NSW 2107

### 1. Description of Pattern

An AVT model ACV-202 remote-storage spirit dispenser approved for dispensing certain spirits. The instrument is designed to dispense a quantity of 30 mL per delivery.

#### 1.1 Field of Operation

The field of operation of the spirit dispenser is determined by the following characteristics:

- Approved spirits are brandy (including cognac and armagnac), gin, rum, vodka, and whisky (whiskey).
- Pour size 30 mL
- Ambient temperature range 5°C to 40°C
- Power pack input voltage range 204 V to 264 V AC
- Operating pressure 400 kPa  $\pm$ 10 kPa

#### 1.2 The System

The dispenser includes:

- A supply tank fitted with low-liquid-level detector that prevents measurements when the liquid level in the supply tank is lower than the sensor;
- A Flojet model N5000-515 pneumatic beverage pump used to transfer the liquid from the supply tank to the measurement transducer;
- A measurement transducer in the form of a non-metallic rectangular body with a cylindrical chamber across the centroid of the body with end connections providing the inlet and outlet for the liquid;
- A Sentry handheld dispensing gun, comprising 12 outlets and control/dispensing buttons connected to the outlet from the measurement transducer; and
- A dot matrix customer display indicating the pre-set volume and the type of liquid dispensed.

The various components of the system are interfaced to a model AVC-202 programmable electronic control system. The AVC-202 electronics are powered by a 24 V DC supply and control the measurement process.

## **2. Description of Variant 1**

Designed to dispense a quantity of 15 mL per delivery. Instruments are marked accordingly.

### **TEST PROCEDURE**

Instruments should be tested in accordance with any relevant tests specified in the Uniform Test Procedures.

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

The maximum permissible errors applicable at verification/certification are:

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

If water is used for testing this measure and the measuring chamber fails to drain completely, it will be necessary to add approximately one part alcohol to 3 parts water to reduce the surface tension of the test liquid. Methylated spirits can be used as the source of alcohol.