(2134) *III(2)*

BIS
Department for Business Innovation & Skills

Certificate
Pursuant to section 12 of the Weights and Measures Act 1985

Certification No 2134 Revision 2

Valid Until 20 August 2020

In accordance with the provisions of section 12 of the Weights and Measures Act 1985, the Secretary of State for Business, Innovation and Skills hereby certifies as suitable for use for trade the following pattern of a spirit measuring instrument as described in the descriptive annex to this Certificate, and having the following characteristics:-

A liquid measuring instrument for use in dispensing intoxicating liquor in fixed quantities of 25 ml. The instrument is supplied from an inverted bottle connected to the inlet and dispenses when a lever-arm at the delivery port is pushed back causing the valve system to operate. A transparent sight glass allows the charging and discharging of the instrument to be seen.

Under the provisions of section 12(6) of the said Act, the validity of this certificate is limited as shown above.

Note: This certificate relates to the suitability of the equipment for use for trade only in respect of its metrological characteristics. It does not constitute or imply any guarantee as to the safety of the equipment in use for trade or otherwise.

This Revision replaces earlier versions of the certificate.

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CERTIFICATION NO 2134

Descriptive Annex

1 INTRODUCTION

This pattern of a spirit measuring instrument is for use in dispensing intoxicating liquor in fixed quantities of 25ml.

The instrument is supplied from an inverted bottle, connected to its inlet, and dispenses when a lever is pushed back causing the valve system to operate. A transparent chamber displays the complete charging and discharging of the instrument.

2 CONSTRUCTION

2.1 Mechanical (Figure 2)

2.1.1 Components

The instrument is constructed mainly in plastic with stainless steel springs and silicone rubber seals. The circular sight glass (1) is moulded in transparent plastic. The mounting bracket (2) and sight glass are permanently bonded in place preventing adjustment or tampering once assembled.

2.1.2 Action

At rest the operating lever (3) is held forward by the lever return spring (4). This exerts a closing force on the outlet valve (5) via the link arm (6) through an actuating shaft to the spring housing (7) and valve spring (8). With the lever forward the inlet valve (9) is open and the air valve (10) is kept closed by the air valve spring (11).

Liquor from the bottle fills the measuring chamber, with the aid of the flow divider (12), via the open inlet valve and is retained by the closed outlet and air valves.

When the operating lever is pushed backward the motion is transferred to the spring housing and valve spring. The valve spring is formed such that while it immediately starts to close the inlet valve, the outlet is still held closed. After approximately a quarter of full travel of the operating lever the inlet valve closes, and at half travel the outlet and air valves start to open.

At no time will the inlet outlet valves be open together.

When the outlet valve opens, liquor is discharged through the outlet port (13) to be replaced by air drawn in through the air valve. The clearance between the outlet valve and the discharge port is deliberately small to enable a capillary action to assist in fully discharging the chamber.

On releasing the operating lever, the lever return spring moves the operating lever back to the rest position again transferring motion to the spring housing and valve spring. Again the

valve spring holds the inlet valve closed until the outlet and air valves are fully closed before finally opening the inlet.

Liquor refills the measuring chamber to be replaced by the displaced air.

2.2 Legends

2.2.1 The instrument shall bear the following legends:

• the number of the certificate of approval preceded by the words 'Certification No', or 'Cert No', legibly and durably marked:.	**2134**
• the nominal quantity conspicuously, legibly and durably marked on the front of the unit in plain block characters on a plain background and in distinct contrast thereto:	**25 ml**
• the name of its manufacturer or supplier, legibly and durably marked:	**Innkeeper Supplies Ltd**

2.2.2 The capacity characters legend, 25 ml, is durably marked on the sight glass. The characters are a minimum of 5 mm high.

2.2.3 The manufacturer's name and certificate number are moulded into the mounting bracket (2).

2.3 Sealing and stamping

2.3.1 The instrument is permanently bonded during manufacture to form a tamperproof, non-adjustable assembly. No further sealing is necessary.

2.3.2 The stamp is directly impressed onto the mounting bracket.

3 OPERATION

With the instrument fully charged with liquor the operating lever is pushed back. The inlet valve closes followed by the outlet and air valves opening, allowing the measuring chamber to discharge. The lever is held back until the chamber is fully discharged.

On completion of dispense the lever is released, the return movement operating the valve sequence in reverse order. Liquor refills the measuring chamber to be replaced by the displaced air.

4 AUTHORISED ALTERNATIVES

4.1 Having an alternative fixed capacity of 35 ml by fitting a different sight glasses. The quantity legend is amended accordingly.

4.2 Having an alternative fixed capacity of 50 ml by fitting a different sight glasses. The quantity legend is amended accordingly.

4.3 Having the verification mark applied to a soft metal seal attached by a security wire, or nylon monofilament, affixed to the mounting bracket. The security seal shall be such that it cannot be removed without destroying the verification mark.

4.4 Having the verification mark applied to the mounting bracket using "tampo / screen" print. The verification mark shall be in a contrasting colour to that of the mounting bracket and shall be permanently, legibly and durably marked.

5 RECOMMENDED TEST

Due to increased surface tension it is possible that, on occasions, the instrument will not operate correctly when using water as the test liquid. This problem does not occur when using any of the prescribed spirits. Providing the instrument fills correctly the dispensed quantity should be within statutory limits irrespective of the liquid used.

6 ILLUSTRATIONS

Figure 1 25 ml measure
Figure 2 Schematic diagram
Figure 3 Measure with example of "printed" verification mark

7 CERTIFICATE HISTORY

CERTIFICATE NUMBER	DATE	DESCRIPTION
2134	22 August 1990	Certificate first issued.
2134 Renewal 1	15 September 2000	Renewal
2134 Renewal 2	20 August 2010	Renewal
2134 Revision 1	23 March 2011	Revision 1 issued Change of manufacturer on front page. Modification to text in section **2 Legends,** text moved into new section **2.2.2** Addition of sections:**2.2.1**, and **4.3** Figure 1 Imperial version (e.g. 1/6 gill) replaced by Metric version (25 ml)
2134 Revision 2	05 September 2011	Revision 2 issued Amendment to section **2.2.2**, removing reference to height of fraction. Section number **2.2.3** added to last sentence in section 2.2.2 Section number **2.3.2** added to last sentence in section 2.3.1 Addition of section: **4.4** and **Figure 3** Replacement Figure 1

Figure 1 25 ml measure

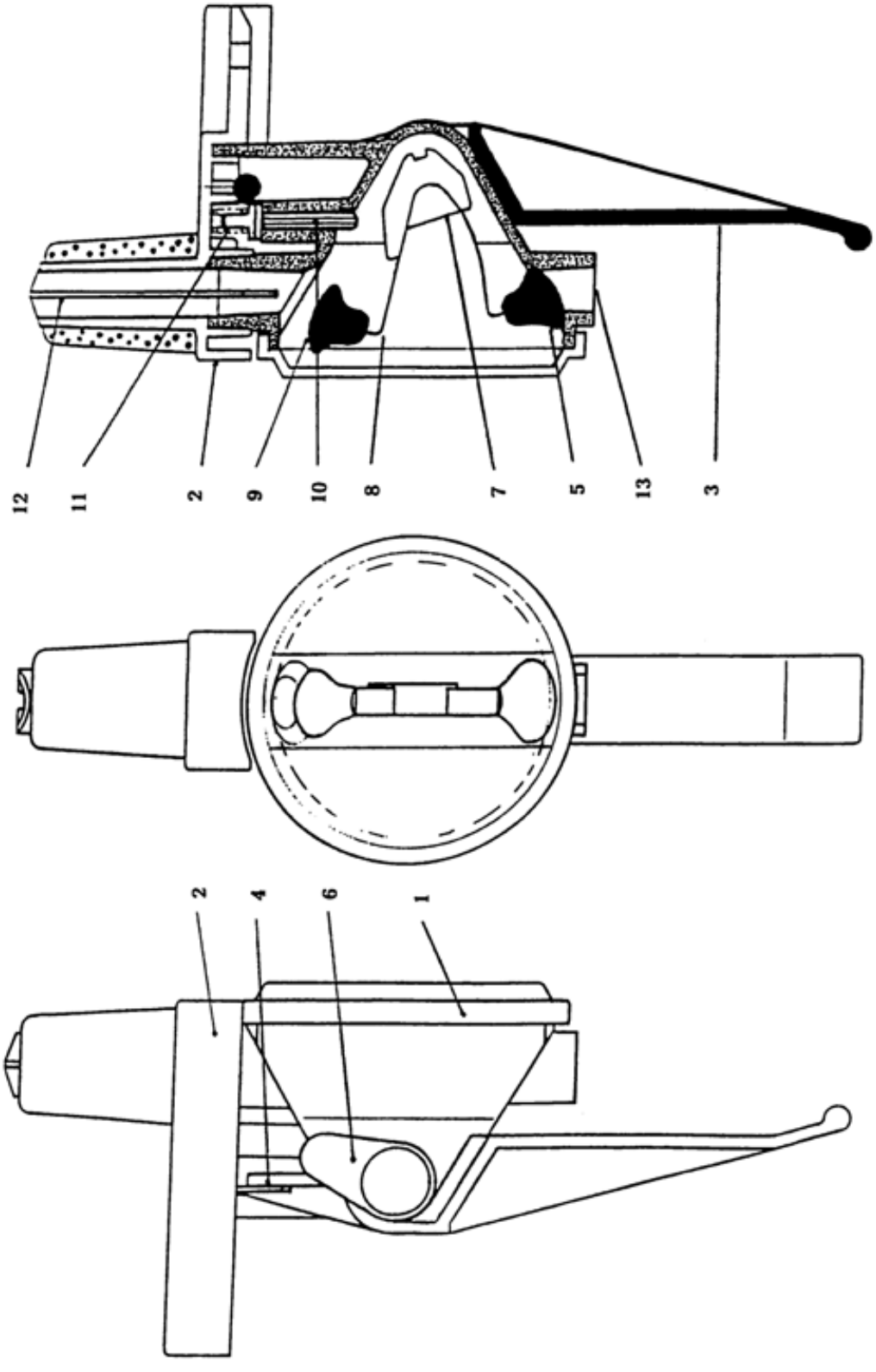

Figure 2 General Assembly

Figure 3 Measure with example of "printed" verification mark