



Australian Government

National Measurement
Institute

Bradfield Road, West Lindfield NSW 2070

**Interim
Provisional
Certificate of Approval
NMI P10/2/17**

VALID FOR VERIFICATION PURPOSES UNTIL 21 NOVEMBER 2015

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.

Liquip Model VTM Bulk LPG Flowmetering System

submitted by Liquip International Pty Limited
 13 Hume Road
 Smithfield NSW 2164

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 R 117, Measuring Systems for Liquids Other than Water, dated July 2011.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern and variants 1 & 2 provisionally approved – interim certificate issued	25/07/14
1	Pattern and variants 1 & 2 approved – certificate issued	5/11/14
2	Pattern amended (new meter image) – certificate issued	20/11/14
3	Variant 3 provisionally approved – interim certificate issued	21/05/15

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI P10/2/17' 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.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate No S1/0B.

Special Conditions of Approval: (Provisional Approval)

This approval is limited to eight (8) instruments/vehicles only having serial numbers/registration numbers which may be obtained from NMI.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI P10/2/17' and only by persons authorised by the submitter. (Note: The 'P' in the approval number may be a temporary marking.)

The approval will remain provisional pending completion of satisfactory testing and evaluation.

In the event of unsatisfactory performance the approval may be cancelled (or altered).

The submitter shall implement such modifications as required by NMI. In the event that such modifications (if any are required by NMI) are not made to the satisfaction of NMI, this approval may be withdrawn.

1. Description of Pattern **provisionally approved on 25/07/14** **approved on 5/11/14**

A Liquip model VTM bulk LPG flowmetering system approved for a maximum flow rate of 500 L/min.

Technical Schedule No 10/2/17 dated 20/11/14 describes the pattern and variants 1 & 2.

2. Description of Variant 3 **provisionally approved on 21/05/15**

With an alternative piping arrangement without flow straighteners.

The outlet of the meter is connected to a straight pipe with a bore equal to that of the meter and is at least 5 pipe diameters long. The inlet of the meter is connected to a straight pipe with a bore equal to that of the meter and is at least 10 pipe diameters long.

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



Dr A Rawlinson

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