Australian Government
Department of Industry, Innovation and Science

National Measurement Institute

Interim
Certificate of Approval
NMI 5/6E/13A

VALID FOR VERIFICATION PURPOSES UNTIL 12 NOVEMBER 2016

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.

Diessel Model IZM-E DN50 G2 Milk Flowmetering System

submitted by Flo-Gineering Pty Ltd
now of 3/43 Leighton Place
Hornsby NSW 2077

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 June 2011.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variant 1 approved – certificate issued	24/12/04
1	Variant 1 amended (Table 1) – notification of change issued	13/11/06
2	Variants 2 & 3 approved – interim certificate issued	14/12/06
3	Variants 2 & 3 approved – certificate issued	11/06/07
4	Variant 4 approved – certificate issued	4/06/09
5	Variants 5 & 6 approved – interim certificate issued	22/01/10
6	Variants 5 & 6 approved – certificate issued	16/02/10

Document History (cont…)

7	Pattern & variants 1 to 6 amended (Table 1 replaced), reviewed – notification of change issued	6/10/10
8	Pattern amended, pattern & variants 1 to 6 reviewed & updated – variant 7 approved – certificate issued	11/06/13
9	Variants 8 & 9 approved – certificate issued	17/01/14
10	Variants 10 provisionally approved – interim certificate issued	03/10/14
11	Variant 10 approved – certificate issued	02/12/14
12	Variant 11 provisionally approved – interim certificate issued	12/11/15

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 5/6E/13A' 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 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.

Special Conditions of Approval: (Provisional Variant 11)

This approval is limited to two (2) instruments (systems) only, the locations of which may be obtained from the National Measurement Institute. The submittor shall advise NMI in writing of the proposed location or serial number of each instrument prior to it being initially verified.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI P5/6E/13A' and only by persons authorised by the submittor. (Note: The 'P' in the approval number may be a temporary marking.)

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

The submittor shall provide NMI with copies of test results from the initial verification and all subsequent tests.

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

The submittor 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 approved on 24/12/04

A vehicle-mounted milk flowmetering system using a Diessel model IZM-E DN50 G2 electromagnetic flowmeter (Table 1) approved for measuring the milk collected from a milk tank.

Technical Schedule No 5/6E/13A Rev 11 dated 2/12/14 describes the pattern & variants 1 to 10.

2. Description of Variant 11 provisionally approved on 12/11/15

Using a GEA Diessel model IZM G1 DN25 flowmeter for measuring beer. The beer is pumped through a gas separator fitted with pressure and level control sensors then measured by the flowmeter. The flowmetering system is controlled by a GEA Diesel model ZEVODAT-Flash computer and a remote control PLC. The system has following field of operation:

2.1 Field of Operation

- Minimum measured quantity (V_{min}) 100 L
- Maximum flow rate (Q_{max}) 120 L/min
- Minimum flow rate (Q_{min}) 12 L/min
- Maximum pressure of the liquid (P_{max}) 800 kPa
- Ambient temperature range –10°C to 55°C
- Accuracy class 0.5
- Density range 1.005 to 1.050 kg/L
- Vehicle-mounted operation
- Product – Beer

TEST PROCEDURE No 5/6E/13A

Instruments shall be tested in accordance with any relevant tests specified in the National Instrument Test Procedures and as described in approval 5/6E/13A.

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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