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Legal Metrology

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RECORD OF APPROVAL ACTION

Approval Listing Number S.WA-2001

(Issued in advance of preparation of Formal Approval Notice)

OTTAWA, October 6, 1980

Company: Brooks Instrument Division  
Emerson Electric Canada Limited,  
P.O. Box 150,  
Markham, Ontario (L3P 3J6)


Type of Device: Positive displacement size 2-inch meter for liquid propane, equipped with a mechanically-coupled automatic temperature compensator, and intended for use on vehicle tanks, Model No. BI-43T.

Description: The metering elements are the helical bi-rotor type common to all Brooks-Brodie positive displacement meters. The temperature sensing bulb is located so that it is in the path of the flow from the strainer. A push-rod and lever plus second push-rod transfer the motion of the bulb to the variable ratio drive of the ATC. Between the ATC and the indicator/printer there is a GROSS register totalizer with the RH wheel making 1 turn for 1 litre. The calibrator is mounted on the meter body under the GROSS register. The meter assembly is complete with inlet strainer/vapour release and outlet combination differential/back pressure valve.

Conditions: As this meter has been subject only to field approval tests and not to the additional usual Laboratory tests, and the manufacturer has not provided test data under 15(2) of the Regulations to indicate at what throughput the tendency of a new meter to give under measure stabilizes, only up to 50 meters may be inspected under this approval and a meter shall be submitted for Laboratory tests when the Minister so requires. By submitting meters for inspection, the manufacturer binds himself to these conditions.

Testing: All BI-43T meters shall be inspected with both mineral spirits and propane to gather data as to whether a correction factor can be authorized. Flow rate and meter and prover reading to be recorded for each test.

File No.: 6953-B365-12

  
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John Armstrong, Chief  
Weights and Measures Division  
Legal Metrology Branch

