



Consumer and
Corporate Affairs

Consommation et
corporations

Standards

Normes

**NOTICE OF APPROVAL
AVIS D'APPROBATION**

S.WA-851

Ottawa, April 19, 1978

BROOKS - BI-ROTOR METERS - GROUP 2

MANUFACTURER: Brooks Instrument Division
Emerson Electric Canada Ltd.
Markham, Ontario

DEVICES APPROVED: Bulk liquid meters, models as listed below:

<u>Model No.</u>	<u>Flow Rating</u>		<u>Maximum Pressure psi</u>	<u>Connections</u>
	<u>G.P.M.</u>	<u>L/M</u>		
B-43	13- 65	60-300	300	1½" threaded
B-53, B-53F	20-100	90-450	300	2" threaded
B-43H	13- 65	60-300	300	1½" flanges
B-53H, B-53HF	20-100	90-450	300	2" flanges

The suffix "F" on the model number denotes all-ferrous construction.

When used for metering of liquefied gases, such as propane and anhydrous ammonia, approved flow ratings are as follows:

Model Series 43:- 16-65 GPM or 75-300 L/M

Model Series 53:- 25-100 GPM or 110-450 L/M.

NOTE 1: These meters may be equipped with a Veeder Root register/printer, or with any suitable and approved type of Brodimatic register recommended by the meter manufacturer.

NOTE 2: Depending upon the age of the meter, any of the above-listed meters may be marked with any of the following trade names -

BRODIE BROOKS-BRODIE
ROCKWELL-BRODIE BROOKS
ROCKWELL

APPLICATION: The metering in trade of bulk quantities of crude oil, refined petroleum products and liquefied gases. Meters of all-iron construction must be used when handling anhydrous ammonia.

DESCRIPTION: These meters are rotary, positive displacement type, utilizing a pair of meshing helically-fluted rotors operating in a measuring chamber. Double-case construction is used in order to prevent distortion of the metering chamber by line pressure or piping stresses. The outer casing incorporates a cast-in strainer chamber.

A range of accessories including flow control valves and preset stop valves is available for installation with these meters.

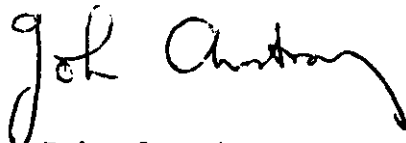
CONDITIONS: A meter equipped with an integral strainer shall be equipped by the manufacturer with a close-coupled (automatic) air eliminator. This air eliminator shall not be removed except under circumstances approved by the Chief, Weights and Measures.

Meters to be used for liquefied gases shall be equipped with a back pressure/differential pressure valve(s) and a well for a test thermometer, and shall be installed and used in accordance with the Ministerial Specification entitled "Specification for the Installation and Use of Meters for LPG."

TESTING: The standard tests for bulk meters shall apply.

REFERENCE: G6953-B365
G6953-B365-12

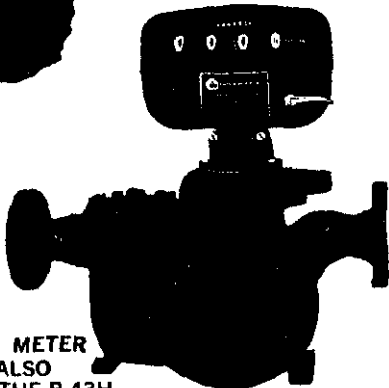
CONDITIONS OF APPROVAL: Approval is granted under the Weights and Measures Act, S.C. 1970-71-72, Chapter 36, and the Weights and Measures Regulations P.C. 1974-1461 of June 27, 1974 for use in Canada under the general conditions of the said Regulations, and under any special conditions listed above.



John Armstrong
Chief, Weights and Measures
Legal Metrology Branch



MODEL B-43 METER
The model B-53 is similar
in construction.



MODEL B-53H METER
THIS DESIGN ALSO
ILLUSTRATES THE B-43H