



**NOTICE OF APPROVAL
AVIS D'APPROBATION**

S.WA-1020

Ottawa, June 16, 1978

A.O. SMITH - BULK LIQUID METERS

MANUFACTURER: Smith Meter Systems Division
Geosource Inc.
Erie, Pennsylvania, U.S.A.
Canadian Representative
L.T.S. Sales Limited
7990 Alfred Avenue
Ville d'Anjou, Montreal, Quebec

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

<u>Model No.</u>	<u>Description</u>	<u>Rating</u>
BSD30-D1	Straight through design	65-330 gpm
LSD30-D1	Ductile Iron, 3"-150# flanges	300-1500 litre/min.
BSD3-S1	Similar to SD30-D1	65-330 gpm
LSD3-S1	Steel, 3"-150# flanges	300-1500 litre/min.
BE4-S1	Straight through design	100-500 gpm
LE4-S1	Steel, 4"-150# flanges	450-2300 litre/min.
BE4-A1	Same as E4-S1 except inlet	100-500 gpm
LE4-A1	at 90° from outlet	450-2300 litre/min.

Model numbers beginning with "B" signify gallon registration.
Model numbers beginning with "L" signify litre registration.

These meters may be furnished with any of a variety of approved types of registers, e.g., cumulative, resettable, ticket-printing type, etc., and with compatible Smith meter accessories such as strainer, set stop valve, etc.

APPLICATION: The metering of liquid petroleum products in trade.

DESCRIPTION: These meters are rotary, positive displacement type, having a rotor equipped with sliding vanes operating within a cylindrical housing. As liquid flows through the meter the rotor and vanes revolve around a fixed cam, with the sliding vanes being maintained in close proximity to the housing wall. The successive movement of the vanes outward toward the housing wall results in a measuring chamber of discrete volume being continuously generated during meter operation.

DESCRIPTION: (continued)

Models E4-S1 and E4-A1 are of double case construction, having the pipe connections confined to an outer housing and having the outer housing filled with liquid at line pressure during meter operation, thus eliminating pressure differentials across the metering chamber housing. Models SD-30-D1 and SD3-S1 are of conventional single case construction.

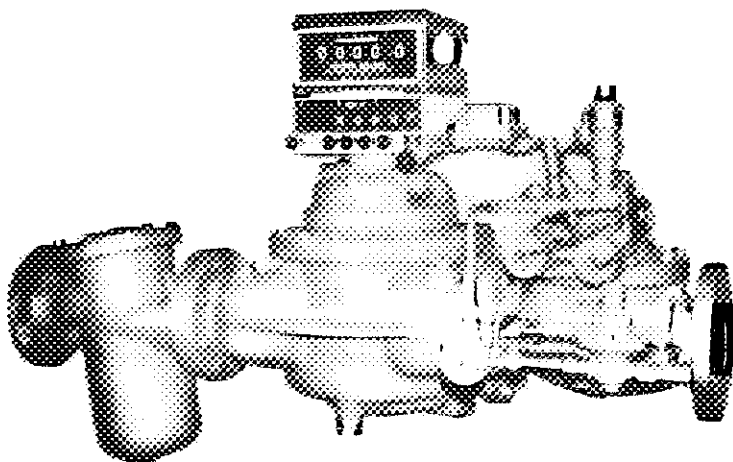
TESTING: The standard tests for bulk liquid meters shall apply.

REFERENCE: G 6953-S505-3

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



S-D 3-S1 WITH STRAINER, HYDRAULIC SET STOP VALVE, SET STOP COUNTER, AND LARGE NUMERAL COUNTER

