



CANADA

DEPARTMENT OF TRADE AND COMMERCE  
STANDARDS BRANCH

S-WA.547

OTTAWA, December 23, 1964.

APPROVAL LISTING

A.O. SMITH - DOUBLE-CASE BULK METERS

Under the provisions of the Weights and Measures Act, Chapter 292, R.S.C. 1952, and Regulations thereunder (P.C. 6894), the apparatus specified herein have been listed as approved devices and may be used in Canada in accordance with the conditions applicable.

Apparatus Listed: Liquid bulk meters, model numbers as follows:

<u>Model No.</u>	<u>Capacity G.P.M.</u>	<u>Flange Size</u>
W-13	108	2" - 300#
W-28	233	2½" - 300#
W-42	350	3" - 300#
W-60	500	4" - 300#
W-90	750	6" - 300#

The same number but with the suffix "D" designates a meter rated at 600 p.s.i.

The same number but with the suffix "M" designates a meter rated at 1200 p.s.i.

These meters may be equipped with small cumulative registers, small resettable registers, large resettable registers, or large resettable registers with printers, as shown on SD-WA.249.

Manufactured by: A.O. Smith Corporation,  
Meter and Service Station  
Equipment Division,  
1602 Wagner Ave., Erie, Penna.

Rating of Apparatus: The maximum rated capacities are as tabulated above. Minimum rated capacities for all sizes are 20% of the maximum for all liquids, including LPG.

Conditions: As prescribed in P.C. 6894. It is expected that for most applications a register with a 1/10 gallon wheel will be required on models W-13, W-28 and possibly model W-42. In installations of models W-60 and W-100 where deliveries of less than 1000 gallons are regularly made, the gallon wheel should be subdivided into 1/10ths.

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Conditions: (con'd)

As combination air-eliminator strainer units are not supplied as part of the meter "package", bulk air eliminators and strainers will generally have to be installed.

In installations where reverse flow could occur, a check valve to prevent it must be installed in a suitable location.

Refer also to the conditions in SD-WA.249.

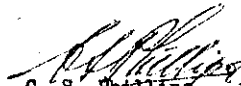
**Application:** Metering of bulk quantities of liquids in wholesale trade where the pressure is above the rating of the single-case meters approved on SD-WA.248.

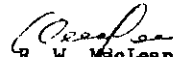
**Description:** These meters are of the rotary positive displacement type; for a description of the principle of operation refer to SD-WA.248.

The meters incorporate redesigned shafts and bearings as do those on SD-WA. 546.

For operation at the higher pressures, a double-case design is utilized, whereby the pressure inside and outside the measuring chamber is equalized to prevent distortion. The actual metering elements are the same as those in the single-case models.

**Testing:** The standard tests for a bulk meter shall apply. The Inspector should check that a register with 1/10 gallon wheel is used on meters which are regularly used for deliveries of less than 1000 gallons.

  
C. S. Phillips,  
Chief, Weights & Measures Division,  
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