DEPARTMENT OF

TRADE AND COMMERCE
CANADA

STANDARDS BRANCH

S-GA.182

OTTAWA March 11, 1960.

TYPE APPROVAL

AMERICAN METER COMPANY TRIPLE INTEGRATING ORIFICE METERS

The apparatus specified and illustrated herein has been duly approved by the Standards Branch under the provisions of the Gas Inspection Act, Chap. 129, R.S. 1952, and may be admitted to verification in Canada.

Apparatus Approved: Triple Integrating Mechanism for use with Type Series "A-70" and "A-88" 'Westcott' Orifice Meters, manufactured by the American Meter Company, Erie, Pa., U.S.A., and distributed in Canada by the Canadian Meter Company Limited, Box 470, Milton, Ontario.

Rating of Apparatus: Triple Integrating Mechanism may be used with any approved rating of types "A-70" or "A-88" orifice meters for differential, static, and working pressures. (See Circular SD-GA.38 of June 25, 1953.)
Temperature element - Class 1 fully compensated, range 0-150°F. or other ranges that may be approved at a later date.

Application: For use in conjunction with "Primary Elements of the Orifice Meters" in the measurement of heating gases.

Description: The triple integrating orifice meter is similar to the double integrating orifice meter previously approved on Circular SD-GA.61, December 24, 1954 and SD-GA.145, September 25, 1958 except that a temperature element has been added together with a temperature recording pen, and the integrating mechanism has been modified to provide compensation for the flowing temperature (to a definite base temperature). The triple integrating mechanism thus provides a totalized indication of the quantity of gas which has passed through the measuring orifice for all rates of flow, variations of pressure and fluctuations of temperature. The totalized quantity is indicated on a counter index.

Approval is also granted for the incorporation of a Telecounter with the triple integrating mechanism, in which case the counter index is mechanically linked through a gear to the telecounter transmitter. (See Approval S-GA.181 for details of the Telecounter.)

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