



TRADE AND COMMERCE
CANADA

STANDARDS BRANCH

S-GA.246

OTTAWA, October 22, 1962.

TYPE APPROVAL

CANADIAN METER COMPANY TEMPERATURE COMPENSATED
TYPE "AL 5000" POSITIVE DISPLACEMENT GAS METER

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

Apparatus Approved: Type "AL 5000" Temperature Compensated Aluminum Case Positive Displacement Gas Meter, manufactured and distributed in Canada by the Canadian Meter Company Limited, Milton, Ontario.

Rating of Apparatus:

Badged Capacity 4000 cu.ft./hr. (air)
Differential Pressure at badged capacity 0.5" water gauge
Capacity per revolution 2.857 cu.ft.
Working Pressure 100 p.s.i.
Base Temperature 60°F.
Connections (female) 4" N.P.T.

Description: The type "AL 5000" non-compensated meter has been previously approved under Circular S-GA.230 of June 6, 1962. The temperature compensated meter is identical to the above except for the following alterations:-

- (a) the conventional double adjustable tangent is replaced by the temperature compensating tangent (shown on the back of this circular);
- (b) the straight short flag arm is replaced by a suitably stepped arm to permit the use of the compensating tangent;
- (c) the index dial plate contains inscription "Temp. Comp. Cu.Ft. at 60°F.";
- (d) only synthetic diaphragms may be used.

In operation the tangent length changes with the temperature change of the flowing gas, thus automatically adjusting the stroke of the diaphragms. The rate of change of tangent length with temperature is suitably chosen so that irrespective of the temperature of the flowing gas, meter registration indicates volume passed at 60°F. In field testing the meter correction chart shall be used to establish the error of the meter if test temperature differs from 60°F. The temperature compensated meters are intended for temperature range normally prevailing in outside locations across Canada during the seasons of the year.

E. F. Power

E. F. Power,
Chief, Electricity and Gas Division,
Standards Branch.

R. W. MacLean
R. W. MacLean,
Director,
Standards Branch.

Ref: A-619

TEMPERATURE COMPENSATING TANGENT PUMP TYPE "AL 5000" POSITIVE DISPLACEMENT GAS METER



