

TRADE AND COMMERCE
CANADA

STANDARDS BRANCH

S-GA.253

OTTAWA..... February 19, 1963.

TYPE APPROVALROCKWELL MANUFACTURING COMPANY TYPES "250" AND "250C"
TEMPERATURE-COMPENSATED POSITIVE DISPLACEMENT GAS METERS

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: Types "250" and "250C" Temperature-Compensated Positive Displacement Gas Meters, manufactured and distributed in Canada by the Rockwell Manufacturing Company of Canada Limited, Guelph, Ontario.

Rating of Apparatus: For rating of apparatus and other information, refer to the appropriate circular listed below.

Description: The non-compensated meters of the above type designations have been previously approved under the following circulars:

- (1) "250" - SD-GA.70 of June 7, 1955
- SD-GA.148 of November 25, 1958
- SD-GA.150 of January 13, 1959
- SD-GA.153 of March 2, 1959
- (2) "250C" - S-GA.243 of October 5, 1962.

The temperature-compensated meters are identical to the non-compensated types except for the following alterations:-

- (a) The conventional double adjustable tangent is replaced by the temperature-compensating tangent, illustrated on the back of this circular.
- (b) The index dial plate contains the inscription "Temp.Comp." and another tab contains the inscription "Temp.Comp. 60°F Base".
- (c) The diaphragms are synthetic only.

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

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(p.t.o.)

from 60°F. The temperature-compensated meters are intended for temperature ranges normally prevailing in outside locations across Canada during the various seasons of the year.

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

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

Ref: A-439F

TEMPERATURE-COMPENSATING TANGENT
FOR USE WITH ROCKWELL TYPES "250" AND "250C"
POSITIVE DISPLACEMENT GAS METERS



