



TRADE AND COMMERCE  
CANADA

STANDARDS BRANCH

March 28, 1963.

OTTAWA

TYPE APPROVAL

ROCKWELL TEMPERATURE-COMPENSATED TYPE #415  
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, Chap. 129, R.S. 1952, and may be admitted to verification in Canada.

Apparatus Approved: Type #415 Temperature-Compensated Positive Displacement Gas Meter, manufactured and distributed in Canada by the Rockwell Manufacturing Company of Canada Limited, Guelph, Ontario.

Rating of Apparatus:

Badged Capacity .....	320 cu.ft./hr.(air)
Differential Pressure at badged capacity .....	0.5" water gauge
Capacity per revolution .....	0.154 cu.ft.
Maximum Working Pressures .....	10 p.s.i. and 25 p.s.i.
Base Temperature .....	60°F.
Connections (male) .....	various

Description: The type #415 non-compensated meter has been approved previously under Circulars SD-GA.59 of December 20, 1954; SD-GA.164 of July 8, 1959; S-GA.172 of November 12, 1959; and S-GA.180 of February 22, 1960. The temperature-compensated meter is identical to this except for the following:

- the conventional double adjustable tangent is replaced by a temperature-compensating tangent (shown on the back of this circular);
- the index dial plate bears the inscription "Temp.Comp." and a metal tag mounted near the nameplate bears the inscription: TEMP.COMP. 60°F BASE;
- 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 will indicate volume passed at a base temperature of 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 year.

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