CANADA

DEPARTMENT OF TRADE AND COMMERCE

STANDARDS BRANCH

G-18

OTTAWA December 20 1965

NOTICE OF APPROVAL

FOR

CANADIAN METER COMPANY TYPE ALC-175, TEMPERATURE COMPENSATED ALUMINUMCASE POSITIVE DISPLACEMENT GAS METER

Apparatus

Badged Capacity	140 cu. ft./hr (Air)
Differential pressure at badged capacity	0.5" water gauge
Capacity per revolution	.0625 cu. ft. per rev.
Working pressure	5 p.s.i.
Tangent to 2 cu. ft. test dial revolution ratio	32:1 or
Tangent to 1 cu. ft. test dial revolution ratio	16:1
Base temperature	60°F
Compensating tangent activity	0.00085"/°F
Diaphragm types	D3 or D7B
Connections (male)	1¼" N.P.T.

Description

The meter approved herein is identical to the ALC-175 Gas Meter approved in Circular G2 dated April 22, 1965, except for the following alterations:

(a) the conventional double adjustable tangent is replaced by the temperature compensating tangent illustrated herein.

(b) the black colored badge is replaced by a permanent red colored badge with the additional information:-
TEMP. COMP. CU. FT. at 60°F.

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.

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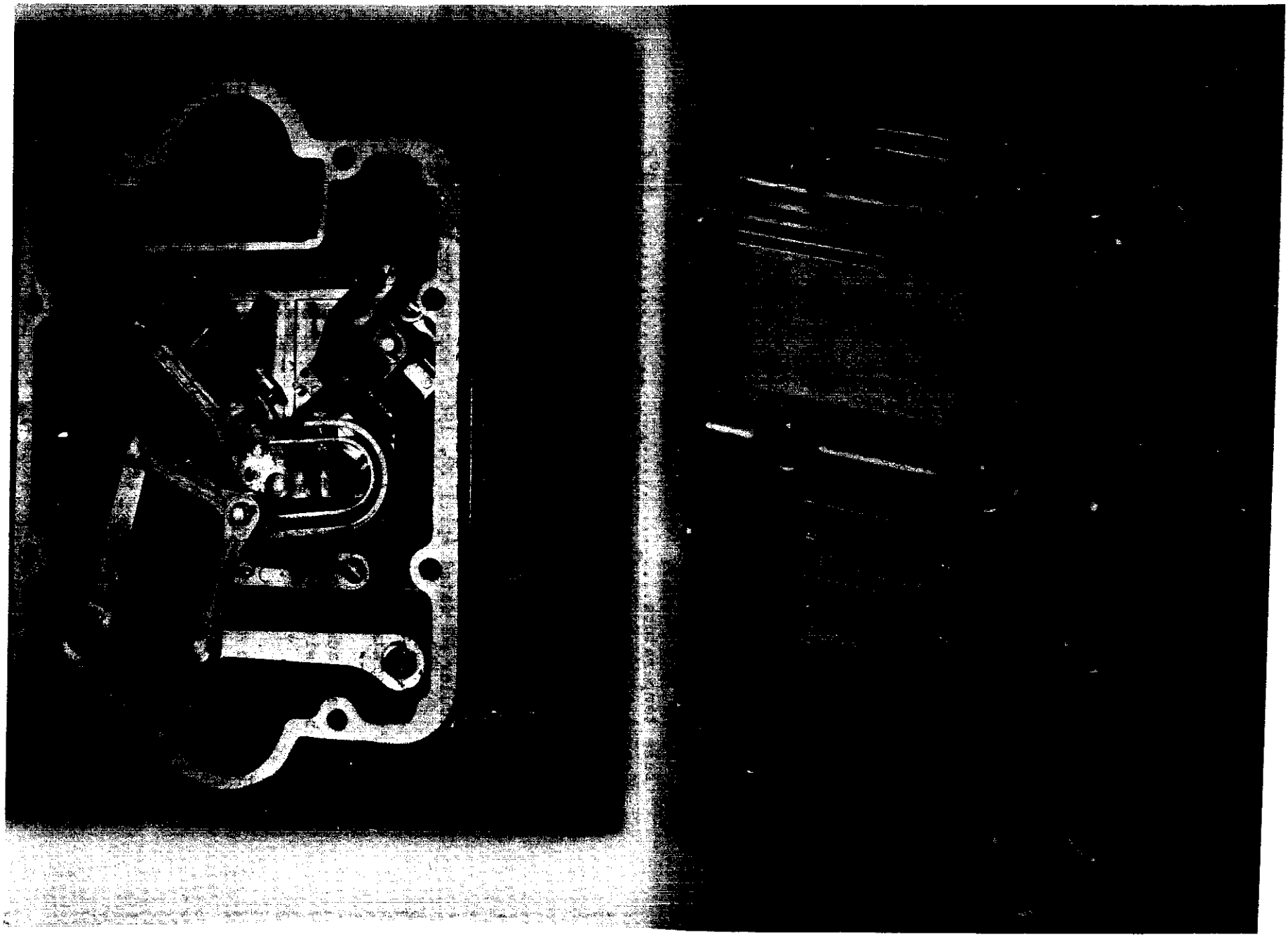
ALUMINUMCASE POSITIVE DISPLACEMENT GAS METER



The temperature compensated meters are intended for temperature range normally prevailing in outside locations across Canada during the seasons of the year. The selection of diaphragms depends upon the expected low temperature operation of the meter. The D3 Diaphragms are suitable for temperatures above $0^{\circ}F$ and the D7B Diaphragms for temperatures as low as $-30^{\circ}F$. In field testing, the meter correction chart shall be used used to establish the error of the meter if test temperature differs from $60^{\circ}F$.

Approval granted to: The Canadian Meter Company Ltd., Milton, Ont.
and Edmonton, Alta.

W.J.S. Fraser,
Chief, Standards Laboratory,
Standards Branch.

K. Cryer,
Chief, Electricity & Gas Division,
Standards Branch.

Ref: SL-100-68A