CANADA

DEPARTMENT OF TRADE AND COMMERCE

STANDARDS BRANCH

G-29

OTTAWA January 11, 1961

NOTICE OF APPROVAL

FOR

CANADIAN METER COMPANY, TYPE AL 1,000
ALUMINUM CASE, STANDARD AND TEMPERATURE
COMPENSATED, POSITIVE DISPLACEMENT GAS METER

Apparatus

Badged capacity	800 cu.ft./hr. (air)
Differential pressure at badged capacity	0.5"w.g.
Capacity per revolution	0.385 cu.ft.
Working pressure	25 and 100 p.s.i.
Diaphragm designation	D 7
Compensating tangent activity	0.00175"/°F
Base temperature (T.C. meter)	60°F
Tangent to 5 cu.ft. test dial revolution ratio	13:1
Meter connections:	
(i) Working pressure 25 p.s.i.	1½" male
(ii) Working pressure 100 p.s.i.	1½" female N.P.T.

Description

The type AL 1,000 gas meter is of the conventional design. The main aluminum alloy casting, partitioned in the middle, forms the meter body with its front and back plates covering the diaphragms. White metal alloy valve seats carry plastic valves. Single throw, solid, stainless steel crank and double adjustable tangents are used. Oil impregnated, porous bronze bushings provide self-lubricating bearings. Flag rods are sealed with suitable synthetic grommet-type seals. The meter top, covering the valve mechanism assembly carries meter register with the undergear assembly and incorporates meter connections. The clock type register has five registering dials and one 5 cu. ft. per revolution test dial.

The temperature compensated version is identical to the standard meter except for the following alterations:

(i) The conventional double adjustable tangent is replaced by the temperature compensating tangent, illustrated on the back of this circular.

(ii) A red colored badge is added with inscription "Temperature Compensated Meter Cu. Ft. at 60°F".

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During operation of the temperature compensated meter 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 the tangent length with temperature is suitably chosen so that irrespective of the temperature of the flowing gas, meter registration indicates the volume passed at 60°F. In field testing the meter, supplied correction chart shall be used in establishing the error of the meter when test temperature differs from 60°F.

The temperature compensated meters are intended for a temperature range normally prevailing in outside locations across Canada during the seasons of the year.

The temperature compensating tangent used in this meter is identical to the one used in AL-600 meter approved in Circular S-GA.251.

Approval granted to: Canadian Meter Company,
Milton, Ontario.

and

Edmonton, Alberta.

W.J.S. Fraser

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

K Cryer

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

Ref: SL-100-815D

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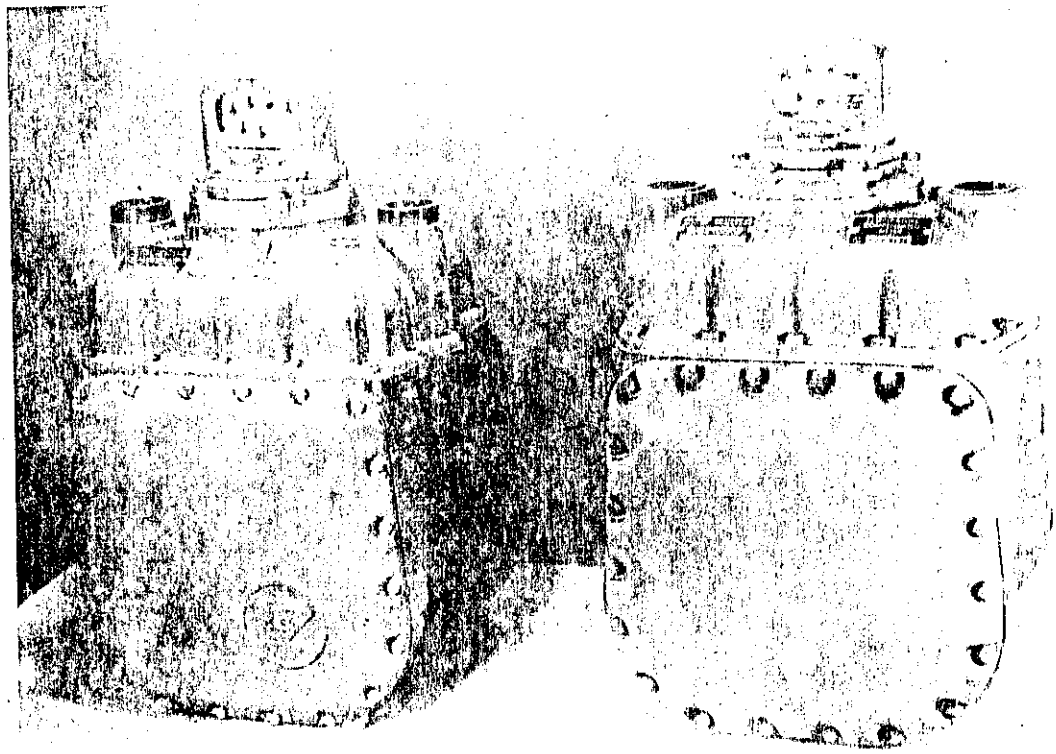

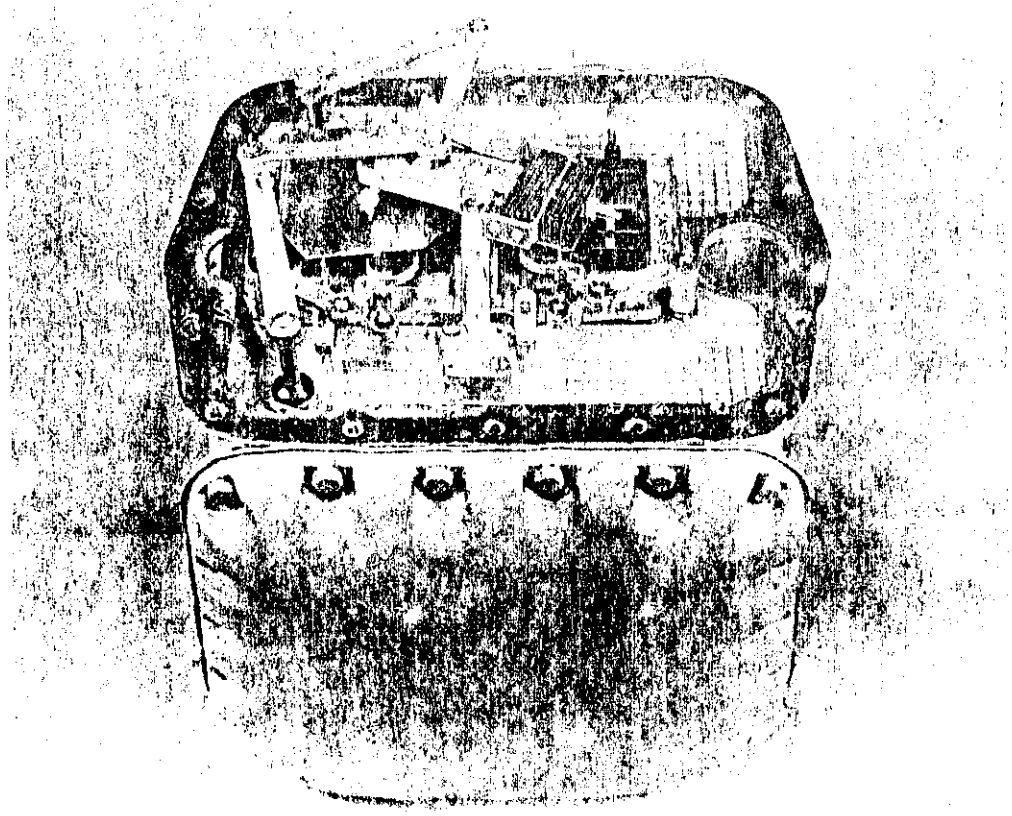

Permission has been granted to the Canadian Meter Company Limited to introduce a new style zinc alloy integrated index box and baseplate assembly on the following positive displacement gas meters:-

Meters	Approval Circulars
35B, 80B, 250B, 500B	SD-GA.127, -146, -159, S-GA.215
DU 5000	G-13
AL 800	SD-GA.156, S-GA.237
AL 1000	G-29
AL 1400	S-GA.258
AL 2300	S-GA.235
AL 5000	S-GA.230
Rotary Meters	G-7, G-27, G-27-1

The permission to use this new style assembly does not cancel the approval of the old style index box with a separate baseplate.