Department of consumer and corporate affairs / Ministère de la consommation et des corporations

STANDARDS BRANCH - DIRECTION DES NORMES

# NOTICE OF APPROVAL G-78

OTTAWA April 6, 1971.

ROCKWELL, TYPES S110 AND T110
STANDARD AND TEMPERATURE COMPENSATED
POSITIVE DISPLACEMENT LP GAS METERS

## Apparatus

| | |
|---|---|
| Badged capacity - Air | 125 cu. ft./hr. |
| Differential pressure at badged capacity | 0.5 " w.c. |
| Capacity per tangent revolution | 0.0625 cu. ft. |
| Tangent to 1 cu. ft. test dial rev. ratio | 16:1 |
| Compensating tangent activity (T.C. meter) | 0.00162"/°F |
| Base temperature (T.C. meter) | 60°F |
| Diaphragm designation | E-65 |
| Maximum working pressure | 5 p.s.i.g. |
| Connections, female, side or top | ½" or 3/4" N.P.T. |

## Description

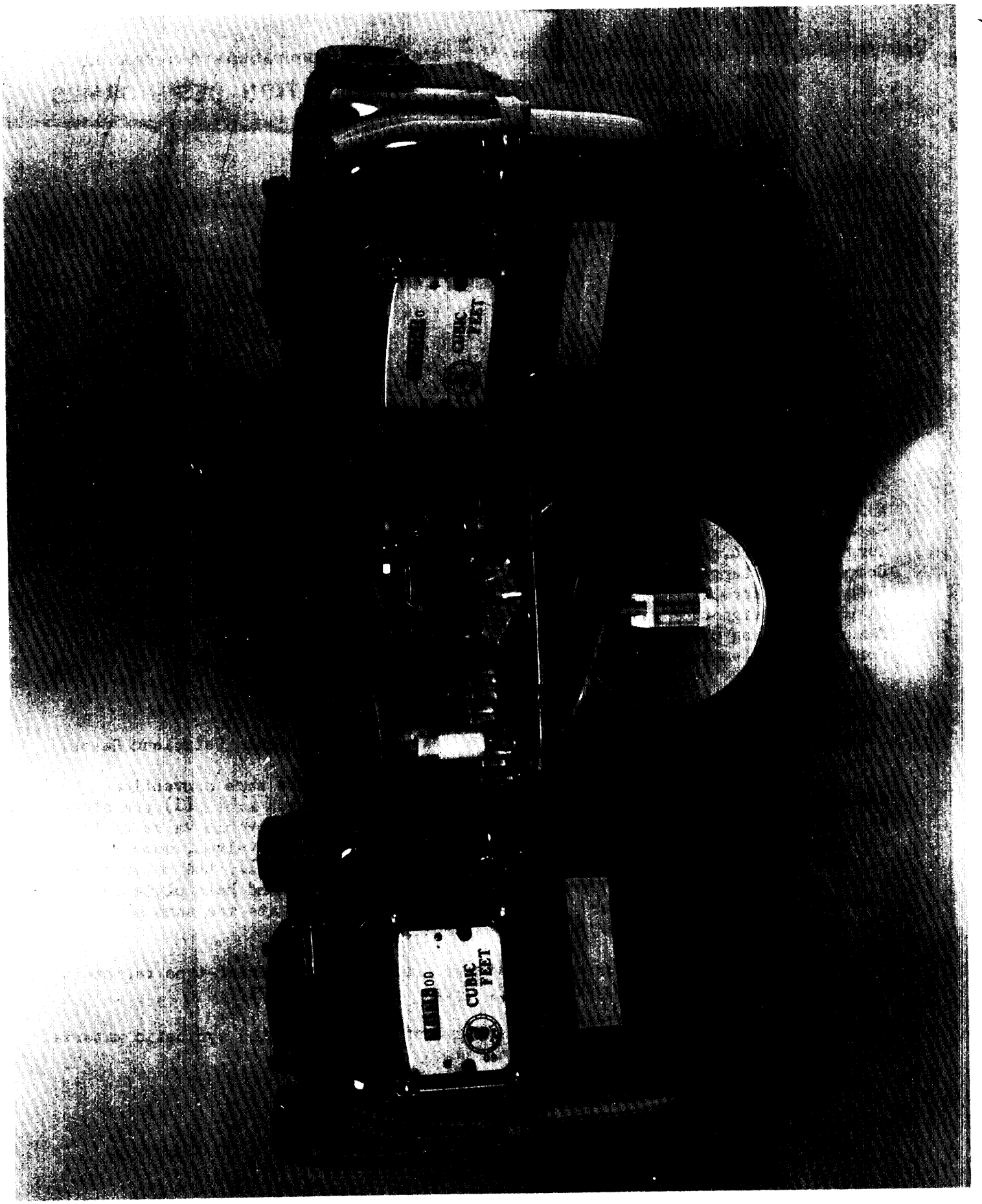
These LP gas meters are intended for measurement of Liquid Petroleum Gases.

Except for different connections both types are of the same conventional design. The meters consist of three major assemblies, which are: (I) the die-cast aluminum case, partitioned in the middle; (II) the removable valve table and diaphragm assembly with white metal valve seats, plastic valves, double adjustable tangent and associated linkages and components; (III) the meter case cover with either top (T110), or side connections (S110), hand hole plate and removable register with Lexan cover. These meters incorporate the same plastic components used in previously approved Rockwell P.D. meters.

The meters may be equipped with either clock-type or counter-type registers which are approved under circular G-72, dated January 26, 1971.

The diaphragms used in these meters are of cloth supported synthetic material suitable for operation at low temperatures.

ROCKWELL TYPES S110 AND T110 STANDARD AND TEMPERATURE COMPENSATED POSITIVE DISPLACEMENT LP GAS METERS



In the temperature compensated meters the double adjustable tangent is replaced by a bimetallic, temperature compensating tangent. Temperature compensated meters shall carry a red lettered badge showing inscription "Temp. Comp. 60°F Base".

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 flowing gas, meter registration indicates the equivalent volume passed at 60°F.

The meter nameplate shall include the following information:

(i) Maker's name.
(ii) Meter serial number.
(iii) Type or model designation.
(iv) Rated capacity of the meter, cu. ft./hr. (air).
(v) Meter's maximum working pressure, p.s.i.g..

The types S110 and T110 LP gas meters will be replacing the present LPG meters approved under Circular SD-GA-65, dated February 11, 1955.

Approval granted to:

Rockwell Manufacturing Company of Canada Ltd.,
Guelph, Ontario.

(for) J.S.T. Swanson
Chief, Standards Laboratory,
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Chief, Electricity and Gas Division,
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Ref: SL-100-594-J