



TRADE AND COMMERCE
CANADA

STANDARDS BRANCH

OTTAWA, February 14, 1963.

TYPE APPROVAL

PARKINSON COWAN (CANADA) LTD. "DELTA 5000"
ROTARY-TYPE 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: "Delta 5000" Rotary-Type Positive Displacement Gas Meter, manufactured by Parkinson Cowan Ltd., England, and distributed in Canada by Parkinson Cowan (Canada) Ltd., 830 Richmond Street, Chatham, Ontario.

Rating of Apparatus:

Rated Capacity 5000 cu.ft./hr.
Capacity per revolution048 cu.ft.
Maximum Working Pressure 150 p.s.i.
Connections 3" flange.

Description: The meter casing is a heavy steel cylindrical chamber with domed ends of forged and bolted construction. Timing gears at each end of the meter are oil-dipped for lubrication and windows are provided in each dome to indicate oil level. The register is located in one of the domes, and can be read through a window. Since this meter may be installed in either the vertical or horizontal position, provision is made to rotate register within by an exterior sleeve so that normal horizontal readings may be made.

This meter measures gas by a rotary movement of two 'figure-eight'-shaped impellers, whose motion is due to a difference of pressure between the inlet and the outlet of the meter and which sweep out each measuring compartment twice for each revolution of the impeller. The impellers are geared together, rotating in opposite directions at speeds proportional to the volume of flowing gas. The transfer of the impellers' revolutions is made by suitable gearing to the register so as to indicate the volume of gas passed in cubic feet through the meter.

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