



TRADE AND COMMERCE
CANADA

STANDARDS BRANCH

Ottawa, October 29, 1962.

TYPE APPROVAL

ARKLA TYPES "V-175" AND "V-250"
ALUMINUM CASE POSITIVE DISPLACEMENT GAS METERS

The apparatus specified and illustrated herein has been duly approved by the Standards Branch under the provisions of the Gas Inspection Act, Chapter 129, R.S. 1952, and may be admitted to verification in Canada.

Apparatus Approved: Types "V-175" and "V-250" Aluminum Case Positive Displacement Gas Meters, manufactured by Arkla Meters, Russellville, Arkansas, U.S.A.

Rating of Apparatus:	"V-175"	"V-250"
Badged Capacity (cu.ft./hr.(air)).....	170	210
Differential Pressure at badged capacity (inches water gauge)	0.5	0.5
Capacity per revolution (cu.ft.)	0.0833	0.0833
Maximum Working Pressure (p.s.i.)	5	5
Connections, top, male	1 $\frac{1}{4}$ "	1 $\frac{1}{4}$ "

Description: Both meters are similar in design and appearance, and the rated capacity change is effected by different size of valve parts in the two meters. The Arkla meter is of a three-compartment, V-shape design with rotary valve, consisting of three basic units: (1) the non-partitioned main meter body carries the register, below which a plugged access hole is located for adjustment of the meter; (2) aluminum meter cover with male, top, steel connections is fastened to the main body with nylon insulated screws; (3) located internally between the cover and the main body, and fastened to the latter, is a pre-assembled valve plate unit which carries the rotary valve and its seat on the top, and two double bellows diaphragms and drive shaft assembly at the bottom. At the lower portion of this assembly the diaphragm links are attached to a crank fastened directly to the crankshaft. Provision is made for adjusting diaphragm stroke and valve timing. Wire seal is used between one screw of meter cover and one screw of register covering plate. Wax is used to seal access to meter adjustment hole.

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