

TRADE AND COMMERCE
CANADA

SD-GA.58

STANDARDS DIVISION

OTTAWA, December 20, 1954.

TYPE APPROVALROCKWELL TYPE #1 ALUMINUMCASE POSITIVE DISPLACEMENT GAS METER

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

Apparatus Approved: Type #1 Aluminumcase Positive Displacement Gas Meter, manufactured by the Rockwell Manufacturing Company, Pittsburgh, Pa., and distributed in Canada by Peacock Brothers Limited, Montreal, P. Q.

Rating of Apparatus:

Badged Capacity 215 cu.ft. per hr.(air)
 Differential Pressure at badged capacity 0.5" water gauge
 Capacity per revolution143 cu.ft.
 Connections 1", 1½" and 1½" male
 Maximum Working Pressure 5 p.s.i., or 10 p.s.i.*

* Maximum Working Pressure must be shown on nameplate when using the 10 p.s.i.case.

Description: This meter is similar to the #1 Ironcase Meter approved under Circular 48 of November 4, 1927, except for the body of the meter which is of the so-called "bowl" type construction and is made of pressure cast aluminum. The meter has a removable and interchangeable valve plate construction. All the working parts - the valve mechanism, tangent, flags and flag arms, diaphragms and index - are built up on and attached to this central member (see illustration). The bellows are made from specially formed sheepskin leathers.

With the object of permitting better valve time and less side thrust, the manufacturer has designed the valve mechanism with a long valve arm. The reciprocating motion is transmitted to the valve in the same plane as the valve seat to eliminate tipping or tilting the valve in operation. A weight is added to the outer end to counter-balance the overhang of the valve driving arm. To aid in setting the valve in repair operations, the centres for both valve and valve seat are marked on the casting. Both valve and valve seat are made from white metal.

A duplex adjustment tangent is fitted. The distance of the tangent post from the crank centre can be easily adjusted by means of two nuts while the tangent post is positioned forward or backward along the line of motion by other adjusting nuts. Each of these adjustments may be made independently of the other. A hand hole plate in the cover provides ready access to the tangent without removing the cover from the body.

The indexes are of the four-circle clock type with a two-foot test dial.

A large mesh wire screen is permanently fitted to the base of the inlet tube to prevent tampering with the adjustments through the opening.

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