

TRADE AND COMMERCE
CANADA

S-GA.298

STANDARDS DIVISION

OTTAWA July 17, 1964.

TYPE APPROVALROCKWELL SERIES "G" 6-INCH GAS TURBO-METER

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: Series "G" 6-Inch Gas Turbo-Meter manufactured by Rockwell Manufacturing Company, Dubois, P.A., U.S.A., and distributed in Canada by Rockwell Manufacturing Company of Canada, Ltd., Guelph, Ontario.

Rating of Apparatus: Rated Capacity 30,000 Cu. ft/hr.
Maximum Working Pressure 125 p.s.i.
Connections 6" flange

Description: The turbo-meter measures gas by utilizing the basic principle of a turbine.

It is an "in line" mounted meter consisting of two main assemblies: 1) the body and 2) the removable internal assembly.

Two essential parts contained in the body are a) a nose cone, located at the entrance to the meter and b) the braking mechanism consisting of two semi-annular hinged plates, spring linkages and a brake shoe. The plates are installed in the circular ring section downstream from the turbine.

The internal assembly contains the measuring mechanism which is composed essentially of the following:

- a) a one-piece molded Delrin turbine blade and rotor unit and
- b) a worm gear arrangement, magnetic coupling drive and intermediate gear reduction train leading from the rotor unit to the index drive shaft.

The conventional stuffing box is replaced by the magnetic coupling drive unit and the entire shaft of the metering mechanism is magnetically suspended for balance and relative weightlessness. Suitable means of lubricating the bearings is provided at the rear of the index.

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