

TRADE AND COMMERCE  
CANADA

S-GA.179

STANDARDS BRANCH

OTTAWA, January 27, 1960.

TYPE APPROVALSERIES 600 ROOTS-CONNERSVILLE HIGH PRESSURE  
ROTARY TYPE 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, Chap. 129, R.S. 1952, and may be admitted to verification in Canada.

Apparatus Approved: Series 600 High Pressure Rotary Type Positive Displacement Gas Meter, manufactured by Roots-Connorsville Blower Division of Dresser Industries Inc., Connorsville, Indiana, U.S.A., and distributed in Canada by Roots-Connorsville Blower (Canada) Limited, 629 Adelaide St. West, Toronto, Ontario.

Application: Measurement in distribution service of manufactured, natural, and petroleum gases, or mixtures thereof:

Rating of Apparatus: These meters are produced in four sizes:-

"7M600" - rated capacity (cu.ft.per hr./air) .....	7000
"16M600" - rated capacity (cu.ft.per hr./air) .....	16000
"23M600" - rated capacity (cu.ft.per hr./air) .....	23000
"38M600" - rated capacity (cu.ft.per hr./air) .....	38000
All sizes- maximum working pressure .....	600 p.s.i.g.

Description: The meter casing is a heavy steel cylindrical chamber with domed ends, of welded and bolted construction. The impellers in the "7M600" size are of close-grained cast iron pressed on to carbon steel shafts. In all other sizes the impellers and shafts are of integral ductile iron construction. Spur-type forged steel gears are mounted at both ends of shafts to maintain impeller timing. Timing gears at each end of the meter are dip oiled from secondary sumps cast into the head plates. Entrance of lubricating oil into the gas stream is prevented by the use of labyrinth seals and traps where the shafts pass through the head plates. Pressure sealing at bolted main joints and at end closures is accomplished with 'O' rings. A reduced speed vertical take-off shaft for driving auxiliary indicating, recording or telemetering instrumentation is standard equipment.

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