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NOTICE OF APPROVAL
AVIS D'APPROBATION

G-65-6

Ottawa, September 16, 1977

CANADIAN METER COMPANY, SERIES CVM, ROTARY NON-TEMPERATURE COMPENSATED, INSTRUMENT DRIVE VERSION, POSITIVE DISPLACEMENT GAS METERS

This approval supplements Notice of Approvals G-65, G-65-1 and G-65-5.

Apparatus

Model designation	3.5M*	5.3M*
Rated capacity, cu. ft. per hour	3,500	5,300
Gear Box Assembly:		
(i) Approved Part No.	55933G030*	55933G067*
(ii) Approved gear ratio	237.90:1	145.60:1
(iii) First meter serial No. to include (i) and (ii) above		
Capacity per rev. of meter output shaft, cu. ft.	10*	10*
Maximum approved working pressure, same for both models, psig	125 300, 575 720, 1440	
Flange rating, same for both models, ANSI	125 300,600	
Meter connections, flange	2"	3"

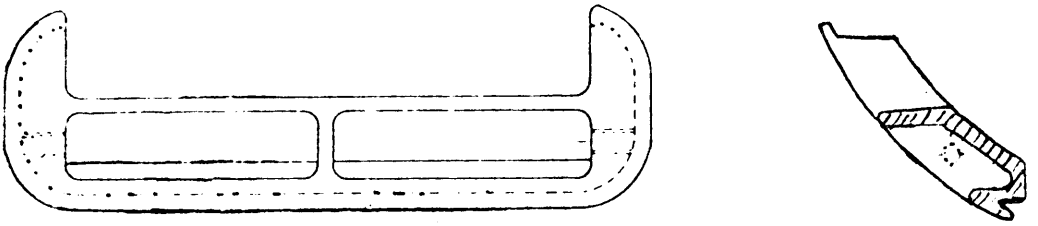
Approved Maximum working pressure depends on the Case Material as well as the use of a "Flow Profiler" as follows:

Max. Working Pressure, psig	Case Material	Flow Profiler **
Up to 125	Aluminum	Not Approved
300, 575	Ductile Iron	Required
720, 1440	Cast Steel	Required

* This information must be stamped on the frame of the gear box assembly for identification purposes.

**Meters operating at working pressures below 125 psig, must not include the Flow Profiler. The Flow Profiler is mandatory on cartridges in meters operating at pressure above 125 psig.

FLOW PROFILER
FOR TYPE CVM, 3.5M AND 5.3M METERS



Installation and Removal Instructions

Due to the bi-directional flow capability of CVM meter care must be excercised to insure that the profiler is installed in the inlet port of the cartridge.

A 5/32" Allen wrench is required for installation and removal of the profiler.

The measurement cartridge must be removed from the meter housing.

INSTALLATION

Slide the profiler into the inlet port of the cartridge. The profiler is designed so that it is self-orienting and can only be seated in the proper position. While applying downward pressure to the profiler, tighten the two (2) retaining screws at both ends. See Figure 2.

Assemble the cartridge in the meter.

REMOVAL

Lossen the two (2) retaining screws and slide the profiler out of the port opening.

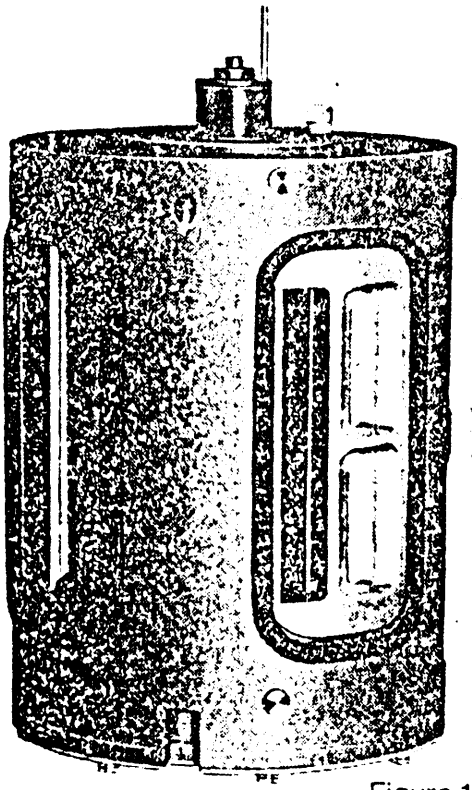


Figure 1

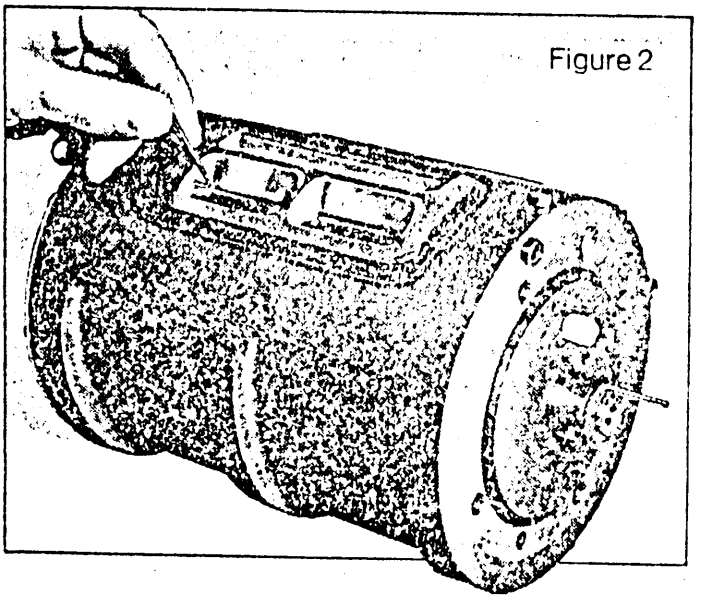


Figure 2

This Notice of Approval extends the maximum working pressure for the 3.5 M and 5.3 M Canadian Meter Company CVM Series rotary meters and the use of the Flow Profiler for working pressures above 125 psig. It also encompasses introduction of new gear train ratios for all working pressures of the non-temperature compensated, instrument drive version, 3.5 M and 5.3 M meters.

The Flow Profiler is attached to the inlet port of the cartridge and it is self-orienting so that it can only be seated in the proper position. The profiler directs the flow of gas so that it enters the measurement chamber tangentially to the rotor rotation. Installation and removal instructions of the Flow Profiler, with illustrations, are contained in this circular for further information.

To alert the user of these meters as to the requirements regarding the Flow Profilers, all cartridges of 3.5M and 5.3M models approved herein shall carry a label affixed to the dust cover plate with the following two inscriptions: "FLOW PROFILER REQUIRED FOR OPERATION AT LINE PRESSURES ABOVE 125 PSIG" and "FLOW PROFILER MUST BE REMOVED FOR OPERATION AT LINE PRESSURES BELOW 125 PSIG".

It shall be the responsiblity of the utility to ensure that Flow Profilers are used in accordance with the stipulated requirements.

The Flow Profiler is visible through the inlet of the assembled meter and its inclusion or exclusion in the meter, as stipulated in this Circular, shall be determined by the inspector and recorded in the Field Note for all verified and re-verified meters.

All 3.5M model rotary meters approved herein shall incorporate the modified cartridge described in the Notice of Approval G-65-5. However, the details of the gear box assembly delineated in this Circular are presently in force.

The measurement cartridges are interchangeable between meters of the same size regardless of the working pressure of the meter, subject only to the stipulated use in conjunction with the Flow Profiler. Requirements on interchangeability delineated in Notice of Approval G-65-1 remain in force.

The CVM meters, models 3.5M and 5.3M of the digital index version, (ref. G-65-3), and of the temperature compensated version (ref. G-82) which are approved for low pressure operation only will retain their original gear box assemblies and gear ratios as follows:

Meter Model	Approved Gear Box Assembly Part No.	Approved Gear Ratio
3.5M	55933G001	239.167:1
5.3M	55933G013	146.250:1

Except for the changes described herein, the CVM meters covered in this Circular are identical in all other respects to those approved previously.

Approval granted to: Canadian Meter Company,
Milton, Ontario and
Edmonton, Alberta.

J. L. Armstrong, P. Eng.,
Chief, Standards Laboratory,

D.L. Smith, P. Eng.,
Chief, Electricity & Gas Division,
Metrology and Laboratory Services

Ref: G-6635-C6-24