



Consumer and
Corporate Affairs

Consommation
et Corporations

Standards

Normes

G-111-1

**NOTICE OF APPROVAL
AVIS D'APPROBATION**

Ottawa May 11, 1976

**CANADIAN METER COMPANY PRESSURE REGULATORS
MODELS 1203B-90, 1203B-180, 1213B-90 AND 1213B-180**

This approval is supplementary to Notice of Approval G-111, dated June 24, 1975.

Apparatus

	1203B-90 & - 180	1213B-90 & -180
Inlet Pressure Range, psig		
Maximum	125	125
Minimum	15	25
Outlet Pressure, psig	5	5
Maximum Approved Flow of 0.6 Sp. Gr. Gas, SCFH	as per Table 1	as per Table 1
Main Orifice Diameters, inches	1/8 x 3/16 E.C. 3/16 E.C. 1/4 E.C.	1/8 x 3/16 E.C.
Regulator Connections, (Inlet x Outlet), NPT inches	3/4 x 1 1 x 1	3/4 x 1 1 x 1

The 1/8" x 3/16" orifice and the 1/4" orifice of the "E.C." type have been granted approval. In addition the 3/16" orifice size of the "E.C." type only, has been granted an extension of approval from G-111. The inlet pressure range and flow capacity have also been increased from that approved in G-111.

Approval is hereby granted for the use of the above-named apparatus in Pressure Factor Measurement installations.

Description

The model 1203B is identical to the regulator approved in G-111, with the exception of the two additional orifice sizes now approved. The model 1213B regulator is physically the same as 1203B, with the exception that it is fitted with an internal relief valve. Only one orifice size is approved for use with the 1213B. A more detailed description of the operation of these regulators is given in G-111.

Table 1 outlines the capacities and main spring which are approved for use with the 1203B. This data has been taken from the Canadian Meter Company document CMC-1000. Table 2 outlines the capacities and main spring which are approved for use with the 1213B. This data has been taken from the Canadian Meter Company document CMC-1001. Note that each table outlines the set point conditions for the respective model.

For field testing procedures, refer to Technical Gas Circular G-75-3.

Approval granted to:

Canadian Meter Company Ltd.
Milton, Ontario and
Edmonton, Alberta

Original signed by:

Original signed by:

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

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

Ref: GL 1147-57/C6-176

CMCO REGULATOR MODEL 1203B PFM

VALVE HEAD SIZES 3/4" x 1" x 1" x 1"

INLET PRESSURE P.S.I.G.	CAPACITY CU.FT/HR. 0.60 SP. GR. GAS		
	ORIFICE SIZE - INCHES		
	1/8" x 3/16" E.C	3/16" E.C.	1/4" E.C.
15	300	375	360
25	450	560	565
35	620	750	745
60	750	750	750
80	750	750	750
100	750	750	750
125	750	750	750

Note: Only one pressure spring P/N 70017P080 is used to obtain the desired 5 PSIG outlet pressure.

Set - Regulator adjusted for 5.1 PSIG outlet pressure at inlet pressure of 25 PSIG and flow rate of 50 SCFH of 0.60 S.G. Natural Gas to achieve desired $\pm 1\%$ of absolute outlet pressure.

TABLE 1

CMCO REGULATOR MODEL 1213B PFM

VALVE HEAD SIZES 3/4" x 1" x 1" x 1"

INLET PRESSURE P.S.I.G.	CAPACITY CU. FT/HR. 0.60 SP GR. GAS ORIFICE SIZES - INCHES
25	<u>1/8 x 3/16 E.C.</u> 380
35	560
50	750
80	750
100	750
125	750

Note: Only one pressure spring P/N 70017P080 is used to obtain the desired 5 PSIG outlet pressure.

Set - Regulator adjusted for 5.1 PSIG outlet pressure at inlet pressure of 35 PSIG and flow rate of 50 SCFH of 0.60 SP. GR. Natural Gas to achieve desired $\pm 1\%$ of absolute outlet pressure.

TABLE 2



Consumer and
Corporate Affairs Canada

Consommation
et Corporations Canada

Legal Metrology Branch

Direction de la Métrologie légale

Holland Avenue
Ottawa, Ontario
K1A 0C9

Avenue Holland
Ottawa, Ontario
K1A 0C9

Telephone: (613) 952-0639

Our file: Notre référence
06635-C6-5
December 19, 1986
AML-G-26

Canadian Meter Company Limited
3037 Derry Road, West
Milton, Ontario
L9T 2X6
Attention: Mr. Glen Wilson

Re: Application of Modify Approved Pressure Regulators 1213-B-90 and 1213-B-180

Dear Mr. Wilson:

This letter is in response to your letter dated October 10, 1986 regarding modification to the type/models of pressure regulators described above, which are currently approved in Notices of Approval G-111-1 dated May 11, 1976 and G-181 dated May 1, 1986. I am advised that the Gas Laboratory has evaluated the modification of changing the model designations from 1213-B-90 and 1213-B-180 to 1213B-PFM-90 and 1213B-PFM-180 respectively. The conclusion is that these modifications may be regarded as insignificant, and hence included within the existing approvals. All recipients of Notices of Approval under the Electricity and Gas Inspection Act are being informed of this decision by copy of this letter.

Yours truly,

Original signed by: J.B. Fulsom for:

W.R. Virtue
Chief,
Legal Metrology Laboratoires

cc. Mailing List (Gas Approvals)

Canada