Consumer and Corporate Affairs | Consommation et corporations

Standards | Normes

NOTICE OF APPROVAL
AVIS D'APPROBATION

G-121-1

Ottawa, December 19, 1978

CANADIAN METER COMPANY MODEL 1803B-PFM PRESSURE REGULATOR
(Designated as 1800CP in U.S.)

This approval is supplementary to Notice of Approval G-121, dated February 20, 1978.

Approval is granted to additional valve body sizes and related orifice sizes for each valve body.

Apparatus

Inlet Pressure Range, psig:	10 to 125
Outlet Pressure, Range, psig:	1 to 30
Approved Maximum Flow of 0.6 Sp. Gr. Gas, SCFH	Refer to Capacity TABLE
Orifice Diameter:	1/8"x3/16", 3/16", ¼", 5/16", 3/8", ½"
Valve Body Sizes, NPT:	3/4"x3/4", 3/4"x1", 1"x1", 1¼"x1¼"

Set Point Conditions:

1. Inlet Pressure, psig:	80 for 1/8"x3/16", 3/16", ¼" orifice si 50 for 5/16" orifice size 35 for 3/8", ½" orifice sizes
2. Outlet Pressure, psig:	1 to30
3. Flowrate, 0.6 Sp. Gr. Gas SCFH	200

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

D.L. Smith,
Chief,
Electricity and Gas Division.
Legal Metrology Branch

Ref: G6635-C6-5

Capacity Table for Model 1803R-P 4 Regulator

Connection sizes: 3/4"x3/4", 3/4"x [illegible] N.P.T.
1"x1" N.P.T.

1/8" x 3/16" Orifice

Outlet Pressure (psig)	Inlet Pressure (psig)							
	10	15	25	35	50	80**	100	125
1	330	410	500	650	875	1,275	1,550	1,925
2	320	405	500	650	875	1,275	1,550	1,925
5	275	350	500	650	875	1,275	1,550	1,925
10	—	305	490	650	875	1,275	1,550	1,925
20	—	—	365	600	870	1,275	1,550	1,925
30	—	—	—	415	825	1,275	1,550	1,925

3/16" Orifice

Outlet Pressure (psig)	Inlet Pressure (psig)							
	10	15	25	35	50	80**	100	125
1	715	890	1,170	1,425	1,900	2,810	3,400	4,075
2	695	885	1,170	1,425	1,900	2,810	3,400	4,075
5	550	820	1,170	1,425	1,900	2,810	3,400	4,075
10	—	665	1,155	1,425	1,900	2,810	3,400	4,075
20	—	—	750	1,310	1,890	2,810	3,400	4,075
30	—	—	—	895	1,790	2,810	3,400	4,075

1/4" Orifice

Outlet Pressure (psig)	Inlet Pressure (psig)							
	10	15	25	35	50	80**	100	125
1	1,235	1,545	2,050	2,550	3,300	4,925	5,930	7,250
2	1,205	1,535	2,050	2,550	3,300	4,925	5,930	7,250
5	1,000	1,375	2,050	2,550	3,300	4,925	5,930	7,250
10	—	1,070	1,925	2,550	3,300	4,925	5,930	7,250
20	—	—	1,125	2,150	3,290	4,925	5,930	7,250
30	—	—	—	1,325	3,110	4,925	5,930	7,250

5/16" Orifice

Outlet Pressure (psig)	Inlet Pressure (psig)							
	10	15	25	35	50**	60	80	100
1	1,500	1,900	2,435	3,050	4,000	4,600	—	—
2	1,400	1,810	2,435	3,050	4,000	4,600	—	—
5	1,200	1,600	2,435	3,050	4,000	4,600	5,800	—
10	—	1,300	2,365	3,050	4,000	4,600	5,800	7,000
20	—	—	1,615	2,800	3,970	4,600	5,800	7,000
30	—	—	—	1,835	3,670	4,600	5,800	7,000

3/8" Orifice

Outlet Pressure (psig)	Inlet Pressure (psig)							
	10	15	25	35**	50	60	80	100
1	1,700	2,120	2,850	3,600	4,600	5,500	—	—
2	1,650	2,100	2,850	3,600	4,600	5,500	—	—
5	1,400	2,000	2,850	3,600	4,600	5,500	—	—
10	—	1,600	2,750	3,600	4,600	5,500	—	—
20	—	—	2,000	3,300	4,580	5,500	—	—
30	—	—	—	2,100	4,300	5,500	—	—

1/2" Orifice

Outlet Pressure (psig)	Inlet Pressure (psig)							
	10	15	25	35**	50	60	80	100
1	2,100	2,625	3,500	4,400	—	—	—	—
2	2,050	2,610	3,500	4,400	—	—	—	—
5	1,750	2,500	3,500	4,400	—	—	—	—
10	—	2,000	3,400	4,400	—	—	—	—
20	—	—	2,900	4,100	—	—	—	—
30	—	—	—	2,650	—	—	—	—

1/8 x 3/16" Orifice

Outlet Pressure (psig)	Inlet Pressure (psig)							
	10	15	25	35	50	80**	100	125
1	330	410	550	685	895	1,305	1,580	1,925
2	320	405	550	685	895	1,305	1,580	1,925
5	275	385	550	685	895	1,305	1,580	1,925
10	—	305	530	685	895	1,305	1,580	1,925
20	—	—	365	630	890	1,305	1,580	1,925
30	—	—	—	415	825	1,305	1,580	1,925

3/16" Orifice

Outlet Pressure (psig)	Inlet Pressure (psig)							
	10	15	25	35	50	80**	100	125
1	715	890	1,190	1,490	1,935	2,835	3,435	4,180
2	695	885	1,190	1,490	1,935	2,835	3,435	4,180
5	595	840	1,190	1,490	1,935	2,835	3,435	4,180
10	—	665	1,155	1,490	1,935	2,835	3,435	4,180
20	—	—	790	1,365	1,930	2,835	3,435	4,180
30	—	—	—	895	1,790	2,835	3,435	4,180

1/4" Orifice

Outlet Pressure (psig)	Inlet Pressure (psig)							
	10	15	25	35	50	80**	100	125
1	1,235	1,545	2,065	2,585	3,365	4,925	5,965	7,265
2	1,205	1,535	2,065	2,585	3,365	4,925	5,965	7,265
5	1,035	1,460	2,065	2,585	3,365	4,925	5,965	7,265
10	—	1,155	2,000	2,585	3,365	4,925	5,965	7,265
20	—	—	1,370	2,375	3,355	4,925	5,965	7,265
30	—	—	—	1,555	3,110	4,925	5,965	7,265

5/16" Orifice

Outlet Pressure (psig)	Inlet Pressure (psig)							
	10	15	25	35	50**	60	80	100
1	1,720	2,330	3,120	3,910	5,090	5,880	—	—
2	1,675	2,320	3,120	3,910	5,090	5,880	—	—
5	1,435	2,210	3,120	3,910	5,090	5,880	7,450	—
10	—	1,750	3,090	3,910	5,090	5,880	7,450	9,000
20	—	—	2,070	3,590	5,080	5,880	7,450	9,000
30	—	—	—	2,350	4,700	5,880	7,450	9,000

3/8" Orifice

Outlet Pressure (psig)	Inlet Pressure (psig)							
	10	15	25	35**	50	60	80	100
1	2,620	3,260	4,370	5,470	7,130	8,230	—	—
2	2,540	3,240	4,370	5,470	7,130	8,230	—	—
5	2,180	3,090	4,370	5,470	7,130	8,230	—	—
10	—	2,450	4,240	5,470	7,130	8,230	—	—
20	—	—	2,900	5,020	7,110	8,230	—	—
30	—	—	—	3,290	6,590	8,230	—	—

1/2" Orifice

Outlet Pressure (psig)	Inlet Pressure (psig)							
	10	15	25	35**	50	60	80	100
1	3,700	4,700	6,200	7,500	—	—	—	—
2	3,600	4,600	6,200	7,500	—	—	—	—
5	3,100	4,400	6,200	7,500	—	—	—	—
10	—	3,200	6,000	7,500	—	—	—	—
20	—	—	4,100	7,100	—	—	—	—
30	—	—	—	4,400	—	—	—	—

NOTE: Capacity figures shown represent the capability of the regulator when installed with **adequately sized downstream piping.**

The following table may be used as a guide in sizing downstream piping.

Pipe Size	Maximum Flow SCFH
½	2,000
1	3,000
1¼	6,000
1½	9,000

**Set Inlet Pressure for all outlet pressures.
Set Low 200 SCFH of Gas Specific Gravity Gas.

At given outlet pressure setting, the outlet pressure is confined to ± [illegible] allowable outlet pressure over full range of inlet pressure shown.