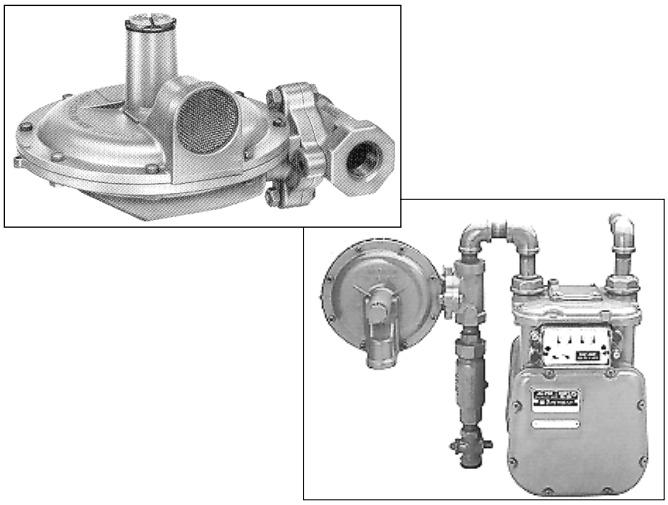
AMERICAN METER COMPANY

1813C

GAS PRESSURE REGULATOR



- Compact and lightweight
- Full capacity internal relief
- Die cast aluminum body
- Corrosion resistant finish
- Suitable for natural gas and propane applications
- Line sizes: ¾”, 1”, 1 ¼”
- 1” threaded vent
- Maximum flowrate 2500 CFH
- Maximum inlet pressure 125 PSI
- Outlet pressures: 3.5” W.C. to 2 PSIG
  - 3.5” – 6” W.C.
  - 5.5 – 8.5” W.C.
  - 6” – 15” W.C. (Standard)
  - 12” – 28” W.C.
  - 24” – 48”
  - 42” – 2 PSIG

GENERAL INFORMATION

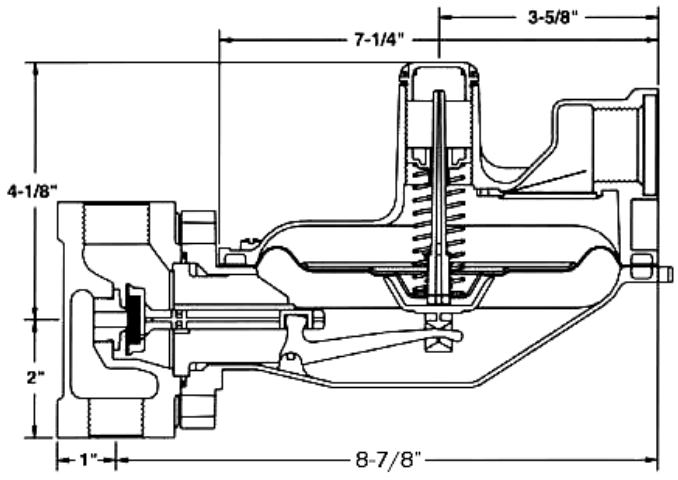
The American Meter Series 1800C pressure regulators are designed for natural gas and propane applications and feature a compact, lightweight design for fast, easy installation. Interchangeable orifices and springs provide a wide range f outlet pressures and flow rates. Outlet pressures between 3.5” W.C. and 2 PSIG are available. Operating temperature range is -20° F to 150° F. Maximum flow rate is 2500 SCFH.

The diaphragm cas may be easily removed for routine inspection without disturbing the line connections. All models conform to ANSI Code B31,8c-1994, and CGA Service-type Regulator Specification CAN/CGA-6.18-M95.

APPLICATION

The model 1813C features a full capacity internal relief valve with large passages to assure the fast release of gas. For added protection, a relief valve stop is provided to assure operation under the most severe conditions. The standard relief spring setting is 8.” W.C. above the normal 7” W.C. outlet pressure.

The 1813C is designed with an extra large, removable weather and bug-proof stainless steel screened vent to resist freeze-ups and to exclude foreign matter. The vent is threaded 1” NPT.



¾”,1” Model: 1” as shown
1 ¼” Model: 1 1/8”

Miners & Pisani, Inc.

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800-446-8181

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Tel: 425-392-4620 ° Fax: 425-557-0384
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1813C Regulator Capacity Performance

Set Point 7.0" W.C. @ 50 SCFH

SCFH 0.60 specific gravity gas @ 60 F & 14.7 PSIA. Pressure spring 70017P044. Outlet pressure variance not to exceed +2" -1" W.C. from set point, horizontal position.

¾”

Inlet (PSIG)	1/8 x 3/16	3/16	1/4	5/16	3/8	1/2	9/16
1		175	250	325	350	400	400
2		300	425	475	550	650	650
3		375	500	600	700	800	800
5	275	500	700	800	950	1000	1200
10	375	750	1100	1200	1400	1500	1700
15	450	950	1400	1500	1600	1900	2000
20	500	1100	1700	1700	1900	2200	2300
30	700	1400	2000	2200	2400	2500	
40	800	1700	2400	2500	2500		
60	1100	2300	2500	2500			
100	1700	2500	2500				
125	2100	*For optimum performance, maximum inlet pressure should not exceed maximum capacity rating for any given orifice size.					

1”

Inlet (PSIG)	1/8 x 3/16	3/16	1/4	5/16	3/8	1/2	9/16
1		175	250	300	375	475	500
2		250	350	450	500	600	650
3		300	450	550	700	850	950
5	250	450	650	750	950	1200	1300
10	350	700	1000	1400	1600	1900	2000
15	425	900	1400	1900	2100	2500	2500
20	500	1100	1700	2300	2500	2500	
30	600	1400	2300	2500	2500		
40	750	1700	2500	2500			
60	1000	2400	2500				
100	1600	2500					
125	2000	*For optimum performance, maximum inlet pressure should not exceed maximum capacity rating for any given orifice size.					

1 ¼ ”

Inlet (PSIG)	1/8 x 3/16	3/16	1/4	5/16	3/8	1/2	9/16
1		200	325	350	375	475	500
2		425	500	600	700	950	1400
3		325	650	950	1200	1700	1900
5	275	550	1000	1600	2100	2500	2500
10	375	850	1500	2400	2500	2500	2500
15	450	1000	1800	2500			
20	550	1200	2100				
30	700	1600					
40	800						
60	1100	*For optimum performance, maximum inlet pressure should not exceed maximum capacity rating for any given orifice size.					
100	1400						

Orifice Sizes and Pressures

Orifice Size	Standard	Max Inlet Pressure (psig)
9/16"	72494P026	20
1/2"	72494P025	50
3/8"	72494P023	70
5/16"	72494P022	125
1/4"	72494P021	125
3/16"	72494P020	125
1/8" x 3/16"	72494P030	125
1/8"	72494P019	125