



- ❑ Compact and lightweight
- ❑ Full capacity internal relief
- ❑ Die cast aluminum body
- ❑ Corrosion resistant finish
- ❑ Suitable for natural gas and propane
- ❑ 3/4" threaded vent
- ❑ Maximum flowrate 1300 SCFH
- ❑ Maximum inlet pressure 125 psig
- ❑ Outlet pressures: 5" WC to 5 psig
 - 5" – 9" WC
 - 6" – 12" WC (standard)
 - 9" – 15" WC
 - 1/2 - 1 psig
 - 1 – 2-1/2 psig
 - 2-1/2 – 5 psig

Table 1: Valve Body Sizes

	NPT
180° VALVE BODY	1/2" x 1/2"
	3/4" x 3/4"
	1" x 1"
90° VALVE BODY	1/2" x 1/2"
	3/4" x 3/4"
	1" x 1"

GENERAL INFORMATION

The American Meter 1213B pressure regulator is designed for natural gas applications and features a compact, lightweight design for fast, easy installation. Interchangeable orifices and springs provide a wide range of outlet pressures and flow rates. Outlet pressures between 3.5" W.C. and 5 PSIG are available. Operating temperature range is -20° F to 150° F (-30° C to 65° C).

The diaphragm case 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.

Each 1213B regulator is equipped with a high tensile strength cast iron valve body that rotates in 90-degree increments and features extra heavy wall thickness. This provides maximum strength to withstand installation stresses without damage and prevents thread galling experienced with aluminum.

1213B regulator valve bodies are treated with a 5-step metal finishing process. The treated metal is then primed with an epoxy paint and finished with a tough vinyl acrylic topcoat.

For available valve body sizes see table 1.

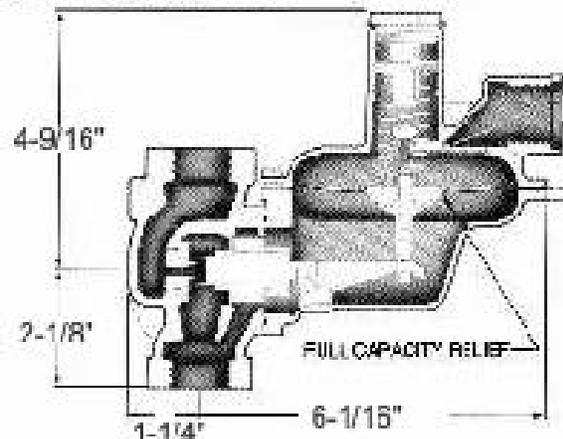
APPLICATION

The 1213B features a full capacity internal relief valve with large passages to assure the fast release of gas. For added protection, a secondary relief valve stop is provided to assure operation under the most severe conditions and in the event the seal plug has been removed. The standard relief spring setting is 7.0" W.C. above the normal 7" W.C. outlet pressure. The relief point for a 2 psig outlet spring is 1.6 psig above the outlet pressure.

Valve body configuration permits the 1213B regulator to be supplied in four positions. All 1213B regulators are available with either right angle (90-degree) or straight flow (180-degree) valve bodies. Vents can also be supplied in four different positions.

The 1213B regulator 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 3/4 inch NPT making it suitable for indoor installations. The regulator vent opening should face downward to minimize the chance of blockage from ice and snow. If not, a 90-degree vent elbow (Part number 78041P025) and separate protective screen (Part number 70400P017) may be screwed into the vent to provide the necessary protection.

MODEL 1213B-180



1213B RESIDENTIAL SERVICE REGULATOR

GAS CAPACITY TABLES (7" WC OUTLET)

1/2" x 1/2"

Inlet (PSIG)	Size of Orifice				
	1/8	1/8 x 3/16	3/16	1/4	5/16
1			155	180	180
2		160	200	260	260
3	165	185	240	260	250
5	225	220	275	285	240
10	275	250	335	310	250
15	255	250	345	270	250
25	250	235	285	285	220
35	285	235	335	285	245
50	285	325	380	290	335
60	315	420	380	355	
75	435	425	370	365	
100	500		390		
125					

3/4" x 3/4"

Inlet (PSIG)	Size of Orifice				
	1/8	1/8 x 3/16	3/16	1/4	5/16
1				170	180
2			180	250	260
3	150	175	250	320	330
5	200	225	325	400	450
10	300	320	425	500	650
15	390	420	550	600	800
25	500	525	700	750	1000
35	600	650	1000	1050	700
50	800	900	1000	900	
60	800	900	1000	800	
75	800	900	1000	750	
100	800	900	800		
125	800	900			

1" x 1"

Inlet (PSIG)	Size of Orifice				
	1/8	1/8 x 3/16	3/16	1/4	5/16
1				170	180
2			190	250	260
3	150	175	250	320	330
5	200	225	325	400	450
10	300	320	425	500	650
15	390	400	550	600	800
25	500	525	700	750	1200
35	600	650	1000	105	1200
50	800	900	1000	900	
60	1000	1000	1000	800	
75	1000	1000	1000	800	
100	1000	1200	800		
125	1000	1200			

Pressure Spring Recommendations

Outlet Pressure	Part Number
5 to 9" w.c.	70017P003
6 to 12" w.c.	70017P065
9 to 15" w.c.	70017P004
1/2 to 1 psi	
1 to 2-1/2 psi	70017P040
2-1/2 to 5 psi	70017P041

Orifice Sizes

Orifice Size	Part Number
5/16"	72494P022
1/4"	72494P021
3/16"	72494P020
1/8"	72494P019
1/8" x 3/16"	72494P030

For optimum performance use above black line.