

#### **Regulator Installation and Maintenance Instructions**

# 143-6 Residential Service Regulator

The 143-6 Residential Service Regulator is an excellent general purpose gas pressure regulator. It can be used for natural gas, air, dry CO<sub>2</sub>, propane, butane, nitrogen, and other gases.

This residential service regulator can be used for gas service to homes, commercial establishments and small industrial users for pressure control of gas supplied to burners, unit heaters, boilers and other types of equipment.

The Standard 143-6-181 Residential Service Regulator is shown on page 3. This regulator, equipped with a 3/4'' or 1" vent, is also available with a 90° angle body — the 143-6-91. Both of these regulators can be supplied with internal relief valves — the 143-6-182 or the 143-6-92. Finally, this regulator is available in a low pressure cut-off version — the 143-6-184 — and a low pressure cut-off version with internal relief valve — the 143-6-186.

Maximum Inlet Pressures–Standard IRV Models and High-Pressure Models								
Orifice	<sup>5</sup> /8″	<sup>1</sup> / <sub>2</sub> ″	<sup>3</sup> /8″	<sup>5</sup> / <sub>16</sub> ″	<sup>1</sup> / <sub>4</sub> ″	<sup>3</sup> / <sub>16</sub> ″	1/8″	
Pressure	10 psig	20 psig	40 psig	40 psig	60 psig	125 psig	125 psig	

Maximum Inlet Pressure – Low Pressure Cut-Off Models								
ORIFICE 1/4" 5/16" 3/8" 7/16"								
Pressure	60 psig	40 psig	25 psig	15 psig				

PIPE SIZES (Ir	nlet x Outlet, NPT)
<sup>3</sup> /4″ x <sup>3</sup> /4″	1″ x 1″
<sup>3</sup> /4″ x 1″	1″ x 1¼″
<sup>3</sup> /4″ x 1 <sup>1</sup> /4″	1¼″ x 1¼″

## Installation and Start-Up

- 1 Remove the shipping plugs from both the regulator inlet and outlet connections.
- 2 Make certain that the inside of the piping and the regulator inlet and outlet connections are clean they must be free of dirt, pipe dope and other debris.
- 3 Use pipe joint material only on the male threads of the pipe being connected to the regulator. **Do not** use pipe joint material on the female threads of the regulator.

**1** Install the regulator in the line. Make certain that the gas flow through the regulator is in the direction as indicated by the arrow on the regulator body.

The regulator may be installed in any position: right side up, upside down, vertical piping, diagonal piping, etc. If required, the diaphragm case may be rotated 360° in 90° increments. Simply remove the two body flange bolts, remove the two plastic hole plugs, and rotate the diaphragm case of the regulator. Before reassembling the body flange coupling, make certain that the tetraseal **(6)** is properly positioned. Reassemble the body flange coupling, insert the body flange bolts and tighten the body flange bolts to hold the diaphragm case in position and reseal the unit. Reinstall the plastic hole plugs in the two unused flange holes. The body flange bolts should be tightened to a torque of 18 ft-lbs.

The diaphragm case vent must be positioned to protect against flooding, drain water, ice formation, traffic, tampering, etc. The vent must be protected against nest building animals, bees, insects, etc., to prevent vent blockage and minimize the chances for foreign material from collecting in the vent side of the regulator diaphragm. If required, the upper diaphragm case may be rotated by removing the diaphragm flange screws (13) and rotating the upper diaphragm case to the desired position. Reinstall the diaphragm flange screws and tighten to hold the upper diaphragm case in position, and reseal.

#### CAUTION

Turn gas on very slowly. If an outlet stop valve is used, it should be opened first. Do not overload the diaphragm with a sudden surge of inlet pressure. Monitor the outlet pressure during start-up to prevent an outlet pressure overload.

**5** Turn the gas on very slowly.

6 Make certain that there are no leaks and that all connections are tight.

To adjust the outlet pressure setting (set point), remove the regulator seal cap (1) and seal cap gasket (2) and turn the spring adjustment button (3). To increase the outlet pressure setting (set point), turn the spring adjustment button (3) clockwise. To decrease the outlet pressure setting (set point), turn the spring adjustment button (3) counterclockwise. This adjustment to the outlet pressure setting (set point) can only be made when gas is flowing through the regulator. After completing the outlet pressure setting (set point) adjustment, be sure to reinstall the seal cap gasket (2) and the seal cap (1).

#### CAUTION

It is the user's responsibility to assure that all residential service regulator vents and/or vent lines exhaust to a non-hazardous location away from ANY POTENTIAL sources of ignition. Where vent lines are used, it is the user's responsibility to assure that each residential service regulator is individually vented and that common vent lines ARE NOT used.

**8** The vent connection is an escape path for flammable gas and it must be located and/or piped so that potential discharge occurs in a safe area away from buildings, open flames, collection areas, arcing devices, etc.

Regulators that are installed indoors or in a non-vented area must be vented to the outside. Simply run vent piping from the regulator vent connection to a non-hazardous location on the outside, away from **any potential** sources of ignition. The vent piping must be connection size or larger and piped to a safe area. The vent discharge must be protected against the potentials outlined in #4, #8, and #9.

For regulators equipped with internal relief valves (IRV), (models 143-6-92, 143-6-182 and 143-6-186, 143-6-92HP, 143-6-182HP) vent piping must be vent connection size or larger. This will assure that the vent piping will be large enough to be able to vent all of the internal relief valve discharge to atmosphere without excessive back pressure that would result in excessive pressure in the regulator.

The outlet of the vent piping must allow for the free and unobstructed passage of air and gas and must be protected against the potentials listed in #4, #8 and #9.



**9** For outdoor installations, it is recommended that the regulator be installed so that the regulator vent faces downward to avoid the potential for water or other foreign matter entering the regulator and interfering with the proper operation of the regulator.

#### CAUTION

Regulators are pressure control devices with numerous moving parts subject to wear that is dependent upon particular operating conditions. To assure continuous satisfactory operation, a periodic inspection schedule must be adhered to with the frequency of inspection determined by the severity of service and applicable laws and regulations.

## Servicing

- 1 For access to the valve pad (7) and orifice (12), remove the body flange bolts and the diaphragm assembly from the regulator body.
- To remove the valve stem from the regulator, simply pull. The orifice (12) can be removed by unscrewing it from the body using a 1" hex socket wrench — "thin-wall" type.
- 3 To replace the regulator diaphragm, remove the seal cap (1), remove the spring adjustment button (3), remove the regulator spring (9), remove the diaphragm flange screws (13) and disassemble the diaphragm assembly. Upon reassembly, make certain that all of the parts are reassembled into the correct order and that all screws and joints are tightened evenly and firmly.
- 4 Before reassembling the body flange coupling, make certain that the tetraseal (6) is properly positioned. Make certain that the body flange bolts are tightened to hold the regulator diaphragm case in position and create a seal. The body flange bolts should be tightened to 18 ft-lbs.
- **5** Upon completing the regulator reassembly, make certain that the regulator is free of leaks.

## **Over Pressurization Protection**

Protection must be provided for the downstream piping system and the regulator's low pressure chambers to assure against the potential over-pressurization due to a regulator malfunction or a failure of the regulator to lock-up. The allowable over-pressurization is the lowest of the maximum pressures permitted by federal codes, state codes, Equimeter Bulletin RDS-1498, or other applicable standards. The method of providing over-pressure protection could be a relief valve, a monitor regulator, a shut-off device or any similar device.

## **Temperature Limits**

The 143-6 Residential Service Regulator can be used for flowing temperatures from -20°F. to 150°F.

## **Buried Service**

The 143-6 Residential Service Regulators *are not* recommended for buried service.

#### CONDENSED PARTS LISTS

Models:	143-6-91	143-6-181
	143-6-91HP	143-6-181HP
	143-6-92	143-6-182
	143-6-92HP	143-6-182HP

ILL.		PART
NO.	DESCRIPTION	NUMBER
1	Cover Cap	143-08-005-02
	Cover Cap, Aluminum*	138-02-005-01
2	Seal Cap Gasket	120-08-066-00
3	Adjustment Spring Button, Plastic	143-08-009-00
	Adjustment Spring Button, Brass*	143-62-009-02
4	Vent Valve Assembly	143-62-313-00
5	Pushnut	903979
6 7	Tetraseal (TS33-133) Valve Pad, Buna-N	902497 143-60-011-00
8	Valve Stem	143-60-016-00
9	Spring (See Spring Table)	140 00 010 00
10	Diaphragm Assembly, Std.	143-60-550-01
	Diaphragm Assembly, Std. Low-Temp.	143-60-550-05
	Diaphragm Assembly, High Pressure	143-62-550-12
10a	Diaphragm, High Pressure*, Std.	143-62-150-05
10b	Diaphragm, Pan, High Pressure*, Std.	173-62-017-01
10c	Seal Washer, High Pressure*, Std.	143-62-352-00
11	Diaphragm Assembly, I.R.V. w/7" Relief	143-60-550-00
	Diaphragm Assembly, I.R.V. w/9" Relief	143-60-550-06
	Diaphragm Assembly, I.R.V. w/13" Relief	143-60-550-10
	Diaphragm Assembly, I.R.V. High Pressure	143-62-550-14
	Diaphragm Assembly, I.R.V. Low-Temp. w/7" Relief	143-60-550-08
	Diaphragm Assembly, I.R.V. Low-Temp.	143-00-330-00
	w/9" Relief	143-60-550-09
12	Orifice, 1/8" Aluminum	143-62-023-37
	Orifice, <sup>3</sup> / <sub>16</sub> " Aluminum	143-62-023-40
	Orifice, 1/4" Aluminum	143-62-023-42
	Orifice, <sup>5</sup> /16" Aluminum	143-62-023-43
	Orifice, <sup>3</sup> / <sub>8</sub> " Aluminum	143-62-023-44
	Orifice, 1/2" Aluminum	143-62-023-45
	Orifice, <sup>5</sup> / <sub>8</sub> " Aluminum	143-62-023-46
	Orifice, <sup>1</sup> / <sub>8</sub> " Brass Orifice, <sup>3</sup> / <sub>16</sub> " Brass	143-62-023-00
	Orifice, <sup>1</sup> / <sub>4</sub> " Brass	143-62-023-01 143-62-023-02
	Orifice, <sup>5</sup> / <sub>16</sub> " Brass	143-62-023-02
	Orifice, <sup>3</sup> / <sub>8</sub> " Brass	143-62-023-61
	Orifice, 1/2" Brass	143-62-023-62
	Orifice, 5/8" Brass	143-62-023-63
13	Flange Screw, 10-24 x 3/4" Lg. Hex Head	951038
14	Screw-Lower Case to Body Connection	
	(Not Shown) <sup>5</sup> /16"-18 x 1" Lg. Hex Head	990012
15	Body, Angle $\frac{3}{4''}$ x $\frac{3}{4''}$	143-60-001-80
	Body, Angle <sup>3</sup> /4" x 1"	143-60-001-81
	Body, Angle 1" x 1" Body, <sup>3</sup> / <sub>4</sub> " x <sup>3</sup> / <sub>4</sub> "	143-60-001-82 143-60-001-40
	Body, <sup>3</sup> / <sub>4</sub> ″ x 1″	143-60-001-40
	Body, 1″ x 1″	143-60-001-42
	Body, <sup>3</sup> / <sub>4</sub> " x 1 <sup>1</sup> / <sub>4</sub> "	143-60-001-00
	Body, 1" x 1 <sup>1</sup> /4"	143-60-001-02
	Body, 1 <sup>1</sup> / <sub>4</sub> " x 1 <sup>1</sup> / <sub>4</sub> "	143-60-001-01
16	Lower Case Assembly, Std.	143-60-502-00
	Lower Case Assembly, I.R.V.	143-60-502-02
17	Cover Assembly, Std. 3/4"	143-80-503-03
	Cover Assembly, Std. 1"	143-80-503-04
	Cover Assembly, I.R.V. 3/4"	143-80-503-01
18	Cover Assembly, I.R.V. 1"	143-80-503-02 143-60-050-00
18	Hole Plug	143-00-030-00

\*High Pressure



#### **CONDENSED PARTS LISTS**

Models:

#### 143-6-184 & 186

Low Pressure Cut-Off

2 3	Seal Cap, Aluminum	
3 /		138-02-005-01
-	Seal Cap Gasket	120-08-066-00
	Adjustment Spring Button, Plastic	143-08-009-01
	Adjustment Spring Button, Brass	143-62-009-02
4 \	Vent Valve Assembly	143-62-313-00
5 F	Pushnut	903979
6 -	Tetraseal (TS33-133)	902497
7 \	Valve Pad, Buna-N	143-60-011-00
8 \	Valve Stem	143-60-016-00
9 3	Spring (See Spring Table)	
10 [	Diaphragm Assembly, Std. L.P.C.O.	143-60-550-02
11 (	Cut-Off Valve Assembly	143-62-516-00
12 (	Cut-Off Valve Spring	143-62-021-23
	Orifice, 1/4" Aluminum	143-62-023-49
(	Orifice, <sup>5</sup> /16" Aluminum	143-62-023-51
	Orifice, 3/8" Aluminum	143-62-023-52
	Orifice, 7/16" Aluminum	143-62-023-53
	Orifice, 1/4" Brass	143-62-023-14
(	Orifice, <sup>5</sup> /16" Brass	143-62-023-11
(	Orifice, 3/8" Brass	143-62-023-12
(	Orifice, 7/16" Brass	143-62-023-13
14 [	Diaphragm Assembly:	
	I.R.V. L.P.C.O. w/7" Relief	143-60-550-03
	I.R.V. L.P.C.O. w/9" Relief	143-60-550-07
	Flange Screw - 10-24" x 3/4" Lg. Hex Head	951038
16 5	Screw - Lower Case to Body Connection	
	(Not Shown) <sup>5</sup> /16"-18 x 1" Lg. Hex Head	990012
	Body, 3/4" x 3/4", straight	143-60-001-54
E	Body, 3/4" x 1", straight	143-60-001-56
E	Body, 1" x 1", straight	143-60-001-55
	Body, <sup>3</sup> / <sub>4</sub> " x 1 <sup>1</sup> / <sub>4</sub> ", straight	143-60-001-08
	Body, 1" x 11/4", straight	143-60-001-09
	Body, 1 <sup>1</sup> / <sub>4</sub> " x 1 <sup>1</sup> / <sub>4</sub> ", straight	143-60-001-07
	ower Case Assembly, Std.	143-60-502-00
	_ower Case Assembly, I.R.V.	143-60-502-02
	Cover Assembly, Std. 3/4"	143-80-503-03
	Cover Assembly, Std. 1"	143-80-503-04
	Cover Assembly, I.R.V. 3/4"	143-80-503-01
	Cover Assembly, I.R.V. 1"	143-80-503-02
20 H	Hole Plug	143-60-050-00

# **Spring Ranges**

	143-6 RE	EGULATOR
OUTLET PRESSURE RANGE	SPRING COLOR	SPRING PART NUMBER
3 <sup>1</sup> / <sub>2</sub> " w.c. to 6 <sup>1</sup> / <sub>2</sub> " w.c.	Red	143-62-021-15
5" w.c. to 81/2" w.c.	Blue	143-62-021-16
6" w.c. to 14" w.c.	Green	143-62-021-17
12" w.c. to 28" w.c.	Orange	143-62-021-18
<sup>1</sup> / <sub>2</sub> psig to 2 psig	Black / White	143-62-021-22
<sup>1</sup> / <sub>2</sub> psig to 3 psig	Cadmium*	173-62-021-02
2 psig to 6 psig	Black*	139-16-021-01

## Spring Ranges -Low Pressure Cut-Off

OUTLET PRESSURE RANGE	SPRING COLOR	SPRING PART NUMBER
4 <sup>1</sup> / <sub>2</sub> " w.c. to 7 <sup>1</sup> / <sub>2</sub> " w.c.	Red	143-62-021-15
6 <sup>1</sup> / <sub>2</sub> " w.c. to 9 <sup>1</sup> / <sub>2</sub> " w.c.	Blue	143-62-021-16
7 <sup>1</sup> / <sub>2</sub> " w.c. to 15" w.c.	Green	143-62-021-17

## Regulator General Assembly Descriptions

Basic 143-6 Models	Description
143-6-91	Standard Regulator with 90° Angle Body
143-6-92	Regulator with Internal Relief Valve (IRV) and 90° Angle Body
143-6-181	Standard Regulator with Straight Body
143-6-182	Regulator with Internal Relief Valve (IRV) and Straight Body
143-6-91HP	Standard High Pressure Regulator with 90° Angle Body
143-6-92HP	High Pressure Regulator with IRV and 90° Angle Body
143-6-181HP	Standard High Pressure Regulator with Straight Body
143-6-182HP	High Pressure Regulator with IRV and Straight Body
143-6-184	Regulator with Low Pressure Cut-Off (LPCO) — Straight Body
143-6-186	Regulator with IRV and LPCO — Straight Body

\* For use with high pressure 143-6 models only.



# **Regulator General Assemblies**







# Models 143-6-91, -92, -181, -182, -91HP, -92HP, -181HP, and -182HP

#### CAPACITY\* In SCFH natural gas (0.6 specific gravity—14.65 psig—60°F.)

PIPE SIZE	INLET PRESSURE			ORIF	ICE SIZE (ind	ches)		
(Inches)	(psig)	1 <b>/</b> 8″	<sup>3</sup> / <sub>16</sub> ″	1/4″	<sup>5</sup> / <sub>16</sub> ″	<sup>3</sup> /8″	1/2″	5 <b>/</b> 8″
<sup>3</sup> /4″ x <sup>3</sup> /4″	$ \begin{array}{c} 1/_{2} \\ 1 \\ 2 \\ 3 \\ 5 \\ 7^{1}/_{2} \\ 10 \\ 20 \\ 40 \\ 60 \\ 80 \\ 125 \\ \end{array} $	250 310 370 530 860 1200 1500 1800	420 560 700 830 1200 1570 1660 1710 1900	530 600 700 840 950 1220 1330 1520	480 560 620 720 860 970 1240 1340	340 500 570 630 730 880 1000 1250 1450	450 510 580 650 770 900 1020 1270	510 530 600 670 790 900 1020
³/₄″ x 1″ 1″ x 1″	$ \begin{array}{c} 1/_{2} \\ 1 \\ 2 \\ 3 \\ 5 \\ 7^{1}/_{2} \\ 10 \\ 20 \\ 40 \\ 60 \\ 80 \\ 125 \\ \end{array} $	250 310 370 530 860 1200 1540 2100	420 560 700 840 1230 1700 1900 2000 2100	530 650 890 1140 1360 2000 2000 2000	480 700 870 1120 1340 1500 1600 1640	350 550 840 1000 1160 1270 1330 1480 1900	460 600 880 920 950 1140 1200 1400	520 650 780 810 970 1060 1180
<sup>3</sup> /4″ x 1 <sup>1</sup> /4″ 1″ x 1 <sup>1</sup> /4″ 1 <sup>1</sup> /4″ x 1 <sup>1</sup> /4″	$ \begin{array}{c} 1/_{2} \\ 1 \\ 2 \\ 3 \\ 5 \\ 7^{1}/_{2} \\ 10 \\ 20 \\ 40 \\ 60 \\ 80 \\ 125 \\ \end{array} $	250 310 370 530 860 1200 1550 2250	420 560 700 840 1230 1800 2100 2200 2400	530 650 890 1140 1360 1600 2200 2400	480 700 870 1180 1500 1700 1800 1900	350 550 840 1030 1350 1610 1710 1900 2000	460 680 1020 1200 1490 1560 1800 1900	520 760 1030 1050 1050 1060 1180

\*Capacities are based on the following maximum variations in outlet pressure:

RED and BLUE SPRINGS:	1" w.c. droop	BLACK/WHITE and
GREEN SPRING	2" w.c. droop	BLACK SPRING
ORANGE SPRING	3" w.c. droop	

BLACK/WHITE and CADMIUM SPRINGS1/4 psig droopBLACK SPRING10% droop

Capacities for 1/2, 1 and 2 psig pressures apply only to RED and BLUE springs. Note carefully these capacities do not apply to the green, orange, and black springs.

**NOTE:** The last figure in each column is the maximum capacity for each orifice at recommended inlet pressure within the optimum performance range.



# Models 143-6-184 & 186 — Low Pressure Cut-Off

CAPACITY\* In SCFH natural gas (0.6 specific gravity—14.65 psig—60°F.)

		OUTLET PRESSURES Red Spring* 4 <sup>1</sup> / <sub>2</sub> " to 7 <sup>1</sup> / <sub>2</sub> " w.c. Blue Spring* 6 <sup>1</sup> / <sub>2</sub> " to 9 <sup>1</sup> / <sub>2</sub> " w.c.				OUTLET PRESSURES Green Spring* 7 <sup>1</sup> /2″ to 15″ w.c.			
PIPE SIZE	INLET PRESSURE	ORIFICE SIZE (inches)					ORIFICE SI	ZE (inches)	)
(Inches)	(psig)	1 <b>/</b> 4″	<sup>5</sup> / <sub>16</sub> ″	7 <b>/</b> 16″	<sup>3</sup> /8″	1 <b>/</b> 4″	<sup>5</sup> / <sub>16</sub> ″	7 <b>/</b> 16″	3 <b>/</b> 8″
<sup>3</sup> /4″ X <sup>3</sup> /4″	1/2 1 2 5 10 15 25 40 60	100 140 230 380 460 640 870 1160	90 200 300 500 740 950 1100 1300	240 400 580 800 1050 1140	180 300 420 750 990 1050 1100	90 140 220 370 480 660 910 1160	90 160 240 460 700 800 1000 1300	140 250 370 580 780 920	120 200 320 530 720 850 900
<sup>3</sup> /4″ x 1″ 1″ x 1″	1/2 1 2 5 10 15 25 40 60	100 140 230 380 460 640 870 1160	90 210 300 510 760 960 1300 1300	270 430 650 1100 1300 1300	210 310 420 750 1120 1300 1300	90 140 220 370 480 660 910 1160	90 160 270 470 740 930 1160 1300	160 260 410 800 1220 1300	120 230 350 730 1090 1300 1300
<sup>3</sup> /4" x 1 <sup>1</sup> /4" 1" x 1 <sup>1</sup> /4" 1 <sup>1</sup> /4" x 1 <sup>1</sup> /4"	<sup>1/2</sup> 1 2 5 10 15 25 40 60	100 140 230 380 460 640 870 1160	90 210 300 510 760 960 1300 1300	270 430 650 1100 1300 1300	210 310 420 750 1120 1300 1300	90 140 220 370 480 660 910 1160	90 160 270 470 740 930 1160 1300	160 260 430 870 1300 1300	120 230 350 730 1090 1300 1300

**NOTE:** Last figure in each column is the maximum capacity for each orifice at recommended inlet pressure within the optimum performance range.

\*RED Spring is Part No. 143-62-021-15; BLUE Spring is Part No. 143-62-021-16; GREEN Spring is Part No. 143-62-021-17.

**NOTE:** The above performance data is based on normal testing at 70°F flowing temperature. Changes in performance can occur at extreme low flowing temperatures.



#### Maximum Emergency Pressure

The maximum emergency pressure that the inlet side of the Residential Service Regulator can be subjected to under abnormal conditions without causing damage to the regulator is:

Maximum inlet pressure 143-6-184 143-6-186 plus 10 PSIG

The maximum emergency outlet pressure that the 143-6 Residential Service Regulator can be subjected to under abnormal conditions without causing damage to the regulator is the regulator set point +3 PSIG. Should the regulator outlet be subjected to a pressure greater than set point of the regulator +3 PSIG, the regulator must be removed from service and carefully inspected for damage. At that time, any damaged or otherwise unsatisfactory parts must be replaced before returning the regulator to service. The maximum emergency outlet pressure that can safely be contained in the 143-6 Residential Service Regulator diaphragm case is 10 PSIG. Safely contained means "no leaking or bursting."

#### Metrication Use the following for metric conversions:

std. meters<sup>3</sup>/hr. x 35.31 = std. ft.<sup>3</sup>/hr. (SCFH) std. ft.3/hr. (SCFH) x 0.0283 = std. metres3/hr.

kilograms/centimeter<sup>2</sup> (kg/cm<sup>2</sup>) x 14.22 = psig psig x 0.0703 = kilograms/centimeter<sup>2</sup> (kg/cm<sup>2</sup>)

kilopascals (kPa) x 0.145 = psig psig x 6.90 = kilopascals (kPa)

The 143-6 Residential Service Regulators are mainly used on natural gas services; however, these regulators will perform equally as well on other gases. When using the 143-6 Residential Service Regulators on other gases, the regulator capacities must be adjusted using the following correction factors.

Type of Gas	<b>Correction Factor</b>
Air (specific gravity 1.0)	0.77
Propane (specific gravity 1.53)	0.63
1350 BTU Propane-Air Mixture (specific gravity 1.20	) 0.71
Nitrogen (specific gravity 0.97)	0.79
Dry CO <sub>2</sub> (specific gravity 1.52)	0.63

For other non-corrosive gases use the following formula:

Correction Factor =

0.60 Specific gravity of the gas

### Corrosive Gas Service

The 143-6 Residential Service Regulators can be used on some corrosive gases such as ammonia, sewage gas, sludge gas, manufactured gas, etc.; however, special materials of construction may be required. Please contact your Equimeter representative or authorized distributor for additional information and recommendations.

bars x 14.50 = psigpsig x .069 = bars

millimeters water (mm H<sub>2</sub>O) x .0394 = in. w.c. in. w.c. x 25.4 = millimeters water (mm H<sub>2</sub>O)

millimeters mercury (mm Hg) x 0.535 = in. w.c. in. w.c. x 1.868 = millimeters mercury (mm Hg)

