



# BelGAS HVAC and Plumbing Products

# HVAC and Plumbing Applications

BelGAS offers many options and products for HVAC and plumbing applications. Our products vary in scale to take on jobs both big and small. From your home to large commercial kitchens, our products are able to supply a safe and steady supply of gas to any building's heating or boiler systems. Our products can be integrated into:

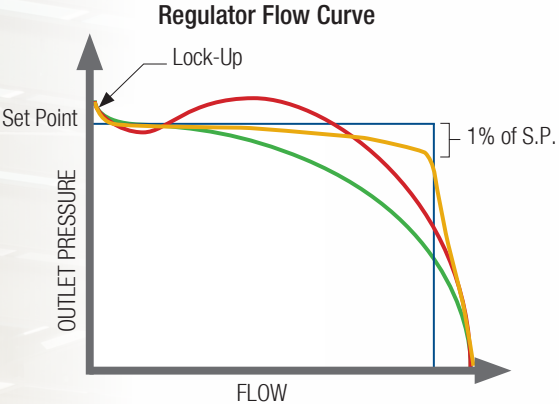
- Rooftop HVAC Systems
- Forced Air Systems
- Radiant Water-Based Systems
- Hydronic Heating Systems
- Generators



**Let's Connect!**



# Regulator Sizing Guide



- Ideal Regulator**
- Spring Effect** – “Droop”
- Closing Force** – “Lock-up”
- Negative Droop** – “Boost”
- Pilot Droop** – +/- 1% of Set Point

## Minimum Info Needed To Size A Regulator

**P1 (Inlet Pressure)**

Min: \_\_\_\_\_

Max: \_\_\_\_\_

**FLOW (SCFH / BTU)**

Min: \_\_\_\_\_

Max: \_\_\_\_\_

**P2 (Outlet Pressure)**

Min: \_\_\_\_\_

Max: \_\_\_\_\_

# Line Pressure Regulators

## PG103 Specifications



- Features:**
- Die-cast aluminum housing
  - Vent Limiter

- Options:**
- 3" Diaphragm Line Pressure Regulator
  - Certified to ANSI Z21.80 CSA 6.22
  - Certified to ANSI Z21.18 CSA 6.3

**Applications**

Line/Appliance Applications -  
Burners, Boilers, Furnaces, Heaters

**Outlet**

2"-6" W.C., 5"-9" W.C., 7"-11" W.C.

**Max Outlet Flow**

350 SCFH or 361,900 BTU/HR

**Port Sizes (Inches)**

1/2"

**Connections**

NPT

## PG105 Specifications



- Features:**
- Die-cast aluminum housing
  - Vent Limiter

- Options:**
- 5" Diaphragm Line Pressure Regulator
  - Certified to ANSI Z21.80 CSA 6.22
  - Certified to ANSI Z21.18 CSA 6.3

**Applications**

Line/Appliance Applications -  
Burners, Boilers, Furnaces, Heaters

**Outlet**

7"-11" W.C.

**Max Outlet Flow**

645 SCFH or 666,930 BTU/HR

**Port Sizes (Inches)**

3/4", 1"

**Connections**

NPT



## P140 Specifications



**Features:**

- Compact Design

**Options:**

- Relieving or Non-Relieving
- Straight Body or Angle Body
- ANSI B109.4 Compliant

**Applications**

IR Heaters, Small Roof Top Units,  
Water Heaters, Pool Heaters,  
Generators

**Outlet**

3" W.C. to 5 PSIG

**Max Outlet Flow**

4,300 SCFH or 4,446,200 BTU/HR  
Max Cv 2.28

**Port Sizes (Inches)**

1/2", 1/2" x 1/2", 3/4", 3/4" x 1", 1", 1 1/4"

**Connections**

NPT

## P143 Specifications



**Features:**

- Compact Design

**Options:**

- Low Pressure Cut Off
- Internal Monitor Configurations
- ANSI B109.4 Compliant

**Applications**

Air Handlers, Commercial Water  
Heaters, Roof Top Units, Generators

**Outlet**

3.5" W.C. to 6 PSIG

**Max Outlet Flow**

4,400 SCFH or 4,550,000 BTU/HR  
Cv 0.455

**Port Sizes (Inches)**

3/4", 1", 1 1/4"

**Connections**

NPT

# Commercial/Industrial Regulators

## P300 Specifications



- Features:**
- Wide Pressure Ranges

- Options:**
- Internal or External Registration
  - Relieving or Non-Relieving
  - ANSI B109.4 Compliant

- Applications**
- Make Up Air Units, Commercial Rooftop Units, Furnaces, Small Generators, Air Handlers, Burners

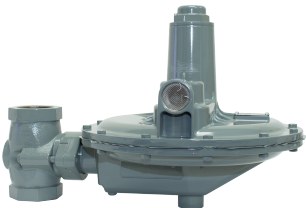
- Outlet**
- 3" W.C. to 8 PSIG

- Max Outlet Flow**
- 17,600 SCFH or 18,200,000 BTU/HR Cv 7.5

- Port Sizes (Inches)**
- ¾", 1", 1 ¼", 1 ½", 2"

- Connections**
- NPT, 125FF, 150RF, Socket Weld

## P200 Specifications



- Features:**
- Wide Pressure Ranges

- Options:**
- Internal or External Registration
  - Relieving or Non-Relieving

- Applications**
- Commercial Boilers, Generators, Fuel Cells, Paint Booths, Burners

- Outlet**
- 2" W.C. to 10 PSIG

- Max Outlet Flow**
- 30,000 SCFH or 31,020,000 BTU/HR Cv 26.0

- Port Sizes (Inches)**
- 1 ¼", 1 ½", 2"

- Connections**
- NPT, 125FF, 150RF, Socket Weld

## P133 Specifications



- Features:**
- Suitable for Monitoring
  - Balanced Supply Valve
  - Wide Pressure Ranges

- Options:**
- Internal or External Registration
  - Temperature Rating of -40°F to 200°F

- Applications**
- Large Generators, C&I Boilers, Grain Dryers, Burners, Downstream Supply

- Outlet**
- 2" W.C. to 60 PSIG

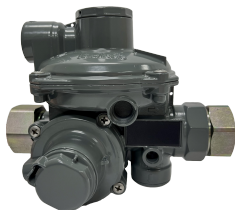
- Max Outlet Flow**
- 46,760 SCFH or 48,350,000 BTU/HR Cv 20.1

- Port Sizes (Inches)**
- 2"

- Connections**
- NPT, 125FF, 150RF

# Slam Shut Regulators

## P100SX Specifications



**Features:**

- Over/Under Pressure Protection
- Manual Reset

**Options:**

- Relieving or Non-Relieving
- ANSI B109.4 Compliant
- Over/Under Pressure Shutoff

**Applications**

IR Heaters, Small Roof Top Units, Water Heaters, Pool Heaters

**Outlet**

6" to 8" W.C. 1.5 to 2.5 PSIG

**Max Outlet Flow**

1832 SCFH or 1,894,300 BTU/HR

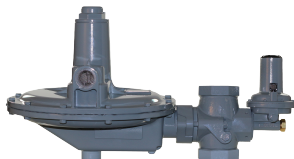
**Port Sizes (Inches)**

3/4", 1", 3/4" x 1"

**Connections**

NPT

## P208 Specifications



**Features:**

- Over/Under Pressure Protection
- Manual Reset

**Options:**

- Internal or External Registration
- Relieving or Non-Relieving
- Under Pressure Shutoff

**Applications**

IR Heaters, Roof Top Units, Water Heaters, Pool Heaters, Commercial Boilers, Fuel Cells, Generators

**Outlet**

2" W.C. to 10 PSIG

**Max Outlet Flow**

30,000 SCFH or 31,020,000 BTU/HR Cv 26.0

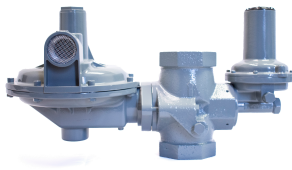
**Port Sizes (Inches)**

1 1/2", 2"

**Connections**

NPT, 125FF, 150RF

## P308 Specifications



**Features:**

- Over/Under Pressure Protection
- Manual Reset

**Options:**

- Internal or External Registration
- Relieving or Non-Relieving
- Over/Under Pressure Shutoff

**Applications**

IR Heaters, Roof Top Units, Water Heaters, Pool Heaters, Commercial Boilers, Fuel Cells, Generators

**Outlet**

3" W.C. to 8 PSIG

**Max Outlet Flow**

17,600 SCFH or 18,200,000 BTU/HR Cv 7.5

**Port Sizes (Inches)**

1 1/2", 2"

**Connections**

NPT, 125FF, 150RF

# Companion Products



In the dynamic world of HVAC, ensuring the reliability, efficiency, and longevity of your systems is paramount. ATC & Diversified Electronics offer a wide selection of products designed to protect your expensive equipment from electrical and mechanical stress.

Key Solutions Include:

- **Phase Monitors:** Monitor and respond to overvoltage, undervoltage, and adverse phasing conditions to safeguard your equipment.
- **Compressor Protectors:** Extend the life of your compressors by preventing overpressure, effectively managing compressor loads, and avoiding short cycling of motors – critical for environments that demand precision and reliability.
- **Timers:** Utilize on delay and off delay timers to manage operation intervals, reducing wear and tear on your equipment and decreasing the likelihood of failures.
- **Relays:** Facilitate seamless power source and load transitions, a must-have in settings that cannot afford any downtime.
- **Remote Data Loggers:** Prevent unexpected failures and minimize downtime with our intuitive monitoring and alert system.

Our comprehensive protection and monitoring solutions are crafted to enhance operational reliability, extend the lifespan of your equipment, and optimize performance, all while keeping you informed and in control. Transform your HVAC management with ATC & Diversified Electronics and experience the peace of mind that comes with knowing your systems are operating smoothly and efficiently.

Learn more at [atcdiversified.com](http://atcdiversified.com).





## Build Your Own HVAC Assembly Today!

---

Our unique network of affiliated companies allows you improve and maintain many different aspects of your HVAC and plumbing systems. We also have a team of experts and engineers on staff ready to listen and assist you with any of your HVAC system's needs.



**Let's Connect!**



## Notes



# BelGAS™

A DIVISION OF MARSH BELLOFRAM

8019 Ohio River Boulevard  
Newell, WV 26050 USA  
800-727-5646



Let's Connect!

Marsh Bellofram, 2024  
LTBGHVAC24

BelGAS.net