

Sensus Metering Systems

Residential Service Regulators Models 143-B and 043-B

Rugged and reliable 125 psig working pressure regulators.

The Model 143-B and its compact companion 043-B are designed to deliver reliable and safe regulation of natural gas, air, nitrogen, carbon dioxide, propane and other non-corrosive gases for residential, light commercial and light industrial applications. Outlet pressures between 3-1/2" w.c. and 2 psi are available. The operating temperature range is -20°F to 150°F (-28.9°C to 65.5°C).

Both models are equipped with an internal relief valve with passages designed to maximize the release of gas as quickly and efficiently as possible. The IRV is set to relieve at 7" to 10" w.c. above normal outlet pressure settings.

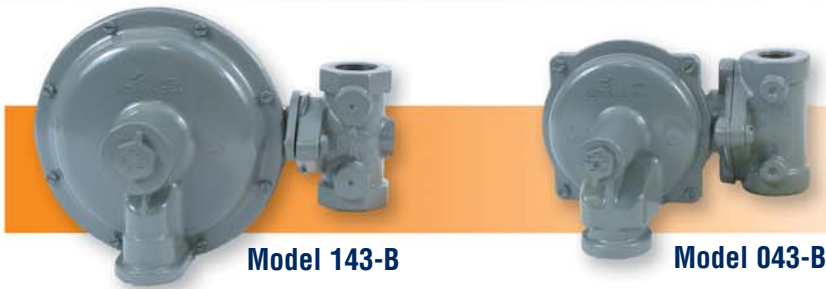
These regulators are also equipped with an extra large, removable, insect-proof, stainless steel screened vent to resist freeze-up and exclude foreign matter. The vent is threaded 3/4" or 1" NPT.



Made in USA



Residential Service Regulators



Model 143-B

Model 043-B

Construction

Valve Body – Cast Iron, 125 psig working pressure

Spring and Lower Case – Die-Cast Aluminum

Spring – 5 spring ranges, 3-1/2" w.c. – 2 psi

Orifice – Brass – 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2"

Valve Seat – One-piece molded Buna-N

Fulcrum Pin – Brass

Throat/Support/Stem Guide – Cast Aluminum, integral to lower case

Diaphragm Plate – Plated Steel

Diaphragm – Polyester fabric reinforced Buna-N with integral relief seat and case flange seal

Model 143-B – 6" cut

Model 043-B – 4" molded, roll-out

Vent Valve – Precision-fit Polypropylene valve and seat

Adjustment Screw – ABS Cyclocac

Closing Cap – ABS Cyclocac with integral relief valve stop and a hole for tamper seal wire

Corrosion Protection

Each precision die-cast aluminum casing is treated inside and out and is dipped in a chromate-base primer. This greatly inhibits the oxidation of metal surfaces that may eventually compromise the integrity of the metal. A finish enamel topcoat further protects the regulator. Valve bodies may be coated with yellow zinc chromate, clear zinc, E-coat or hot dipped galvanizing.

High Tensile Strength Valve Bodies

The Model 143-B has a high tensile strength cast iron body that rotates 360 degrees.

The 043-B rotates in 90 degree increments. Available body sizes include:

- Both Models – 3/4" x 3/4", 3/4" x 1", 1" x 1"
- Model 143-B – 3/4" x 1-1/4", 1" x 1-1/4", 1-1/4" x 1-1/4"
- Model 043-B – 3/8" x 3/8", 1/2" x 1/2"

Options

Regulator vent openings should face downward (6 o'clock) to minimize blockage from ice and snow. If this is not possible, a plastic elbow vent with a protective screen is available to screw into the vent. Other options:

- 2 psig Regulator
- Seal Wires
- Angle Body



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