



Knowledge to Shape Your Future

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To whom it may concern,

It is Itron's recommendation that the RB1700 and RB4000 series regulators be installed in the upright horizontal position. When installed outdoors, the vent must be protected to prevent any type of moisture from entering and freezing. Following are the guidelines that can be found on page 10 of the RB1700 literature and on page 20 of the RB4000 literature:

"When constructing vent lines to be attached to regulators installed indoors, follow a few basic rules:

- a. Never use pipe sizes smaller than the vent size; smaller pipe sizes restrict the gas flow. If a long gas run must be used, Itron advises increasing the pipe one nominal size every ten feet to keep the flow restriction as low as possible.*
- b. Keep the vent line length as short as possible to minimize the restriction and reduce the vent's tendency to cause regulator pulsation.*
- c. Support the vent pipe to eliminate strain on the regulator diaphragm case.*
- d. Always point outdoor vent pipes in the downward position to reduce the possibility of rain, snow, sleet, and other moisture entering the pipe. Install a bug screen in the end of the pipe.***
- e. Do not locate the vent line terminus near windows, fans, or other ventilation equipment. See the installation instructions furnished with the regulator.*
- f. Adhere to all applicable codes and regulations.*
- g. If your vent pipe causes regulator pulsation, consult your sales representative or manufacturer.*
- h. Itron strongly recommends running a separate vent line for each regulator. Headers with various installed devices can cause regulator malfunction."*

Due to the moisture content of gas, when subjected to extreme temperatures, the outdoor piping should be sufficiently insulated to prevent freezing.

Best regards,

Robbie Swigert
Application Engineer – Regulators
Itron, Inc.
970 HWY 127 N.
Owenton, KY 40359
Email: Robbie.swigert@itron.com