

## Inspection and Technical Services

### Gas Equipment Bulletin: Regulator Stations on Roof Tops

ITS 21-025

**CSA B149.1- 2015 - Natural gas and propane installation code**

#### **5.2.1.6**

***A pressure regulator provided in a gas supply line shall not be installed***

- a) where it is inaccessible for repair, replacement, servicing, or inspection;***
- b) in a concealed location; or***
- c) where it could be reasonably expected to be subject to physical or chemical damage.***

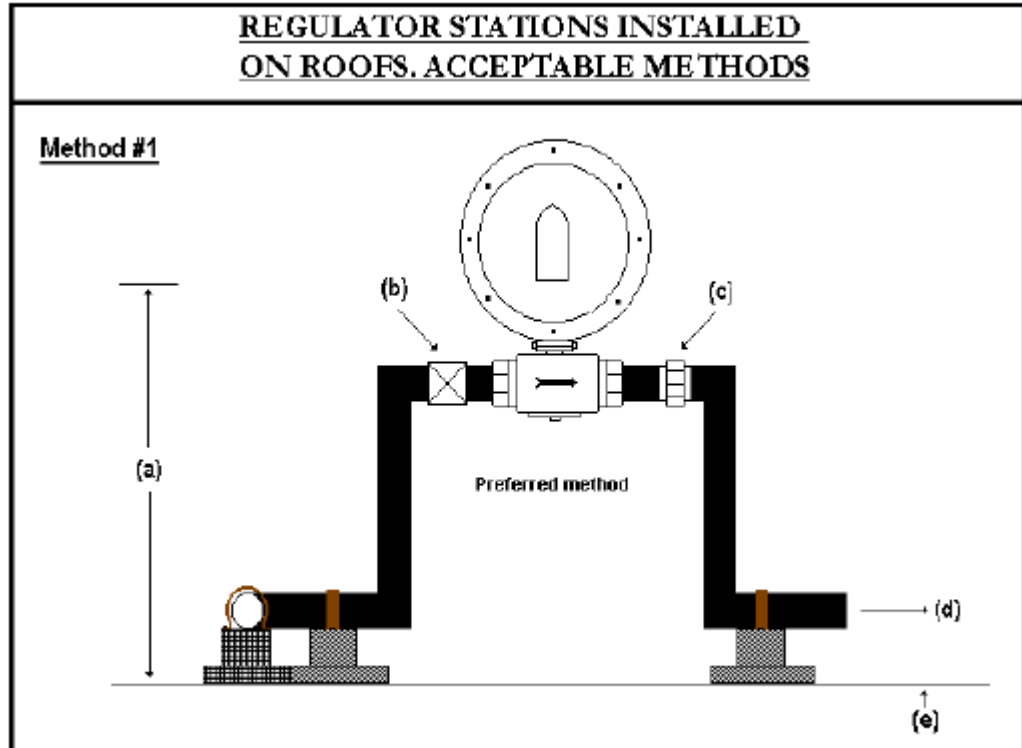
#### **Topic**

CSA B149.1-2015 - Natural gas and propane installation code requires a regulator to be installed and adequately supported to ensure the regulator remains in its permanent position. This bulletin provide methods for consideration to help protect a gas regulator station installed on a rooftop from snow and moisture.

#### **Important Information**

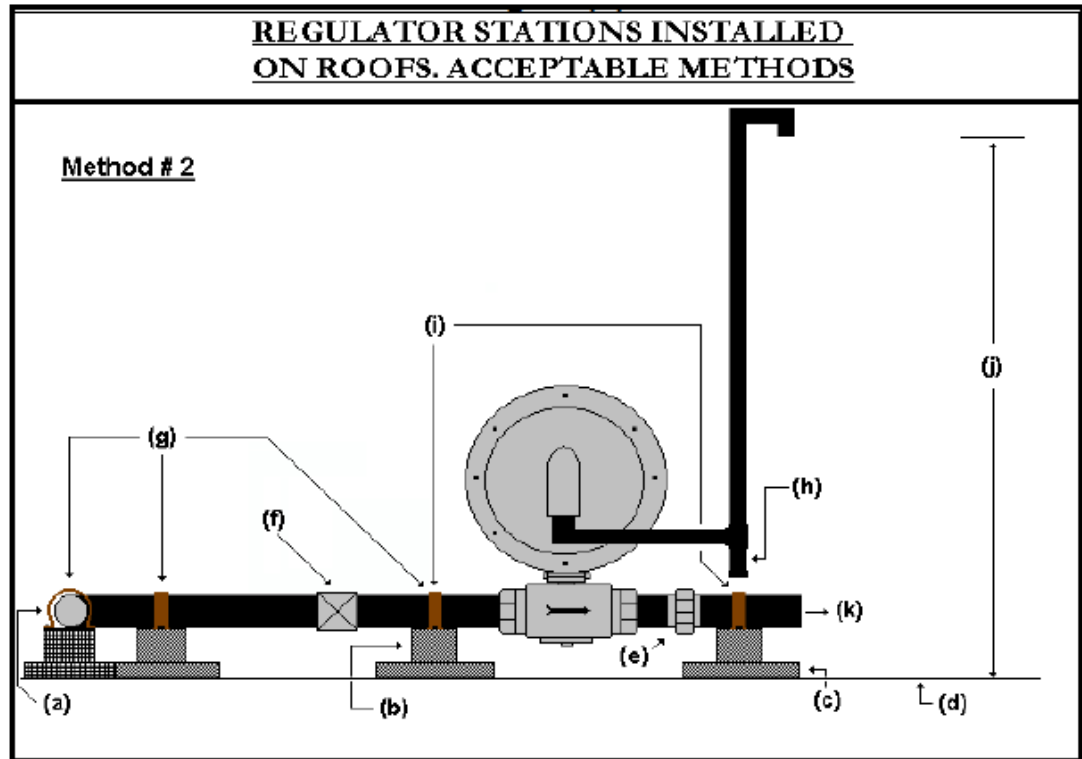
The selected method will ensure that the station is not affected by adverse weather conditions such as wind or snow load. In addition, care should be exercised when selecting the location of the station to ensure that no freezing water can drip on to the vent termination from another source (other roof lines, eaves trough, drain pipes etc.). To illustrate recommended practices, blocking methods are shown for reference on Figure (1) and Figure (2) for flat roofs and Figure (3) for proper blocking on sloped roofs.

Figure (1)



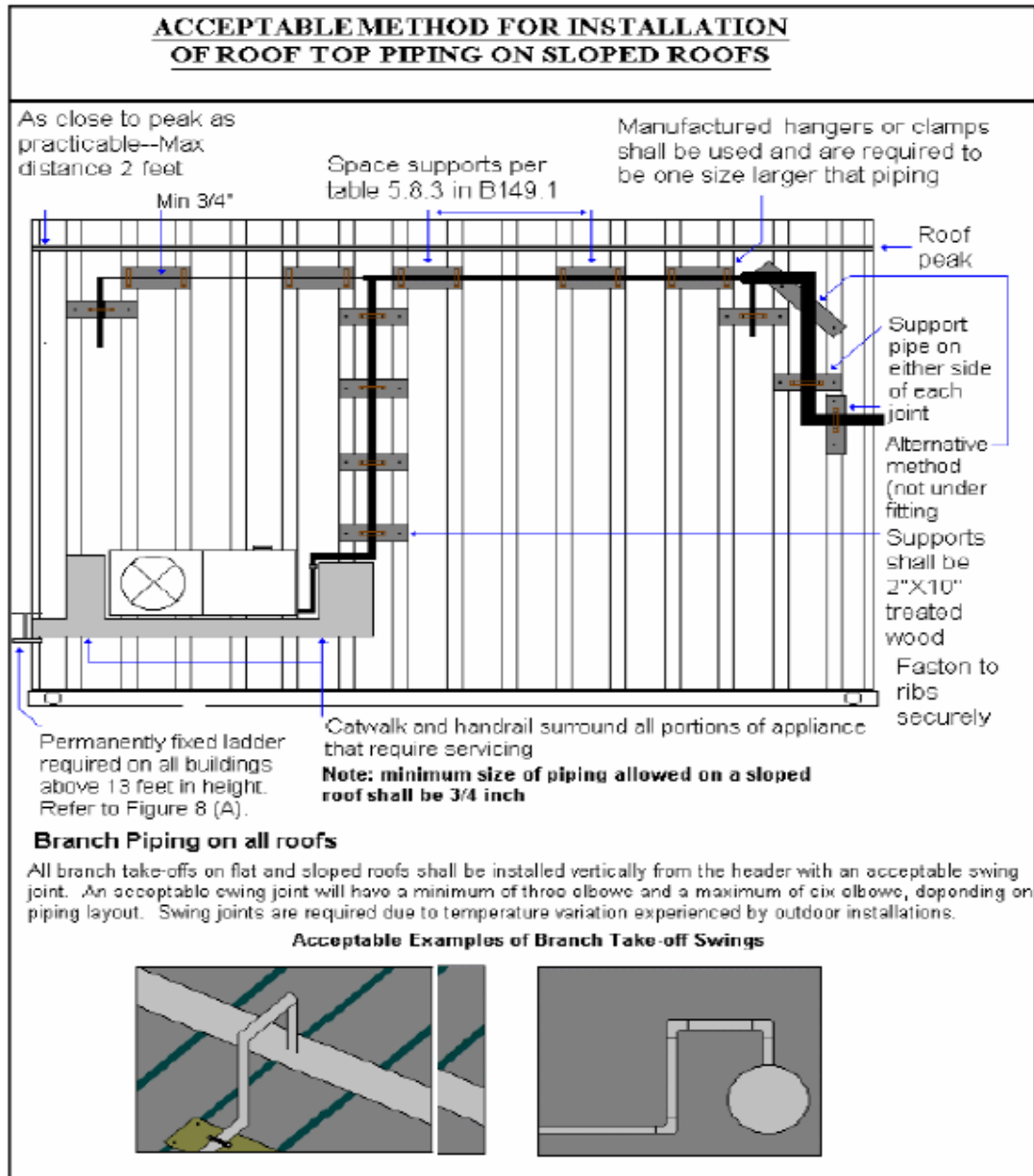
- a) Manufactured hangers or clamps that are one size larger than pipe diameter
- b) 4" X 4" treated wood block or other material acceptable to the inspecting authority
- c) 2" X 10" treated wood block or other material acceptable to the inspecting authority
- d) Roof line
- e) Union

Figure (2)



- a) Manufactured hangers or clamps that are one size larger than pipe diameter
- b) 4" X 4" treated wood block or other material acceptable to the inspecting authority
- c) 2" X 10" treated wood block or other material acceptable to the inspecting authority
- d) Roof line
- e) Union
- f) Shut-off valve
- g) Supports shall be provided at each threaded fitting
- h) Dirt pocket on vent line shall be 3 inch (7.5 cm) in depth.
- i) Regulator shall be supported on either side.
- j) Termination of vent pipe fitted with a vent cap or screen. Vent supported to prevent accidental displacement and shall terminate a minimum of 2 feet above the roof line or higher than expected snow level, whichever is greater.
- k) To appliance.

Figure (3)



**Reference Documents:**

**Gas and Oil Burner Regulation 104/87 R**

**CSA B149.1- 2015 - Natural gas and propane installation code**