

# Customer Pipe Sizing



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## Customer Pipe Sizing

Enbridge Gas assumes the responsibility to approve natural gas installations at brand new premises. Enbridge Gas will not accept an installation that does not conform to the requirements in CSA B149.1 Natural Gas and Propane Installation Code (current version), any additional requirements made by the local authority having jurisdiction (TSSA in Ontario), the appliance manufacturer's certified installation instructions, or when a gas appliance is not operating safely.

The responsibility to ensure that there is appropriate gas pressure and volume to each gas appliance rests solely with the designer/installer. Improper specification of the equipment and/or an improper design of the supply piping by the designer/installer can lead to suboptimal performance of appliances and possible safety hazards. Enbridge Gas will install a meter that will provide an appropriate pressure and volume of gas to meet the requirements of each customer's gas-fired equipment, as specified by the designer/installer, but will not be responsible for deficiencies in pressure and volume since the assumption is that the designer/installer has designed the system with appropriate capacity.



### Installations must be designed:

- Using sound engineering principles and/or the design method that is specified in CSA B149.1 Natural Gas and Propane Installation Code (version in effect at time of design), such that the allowable pressure drop is not exceeded and appropriate gas volume will be delivered to each gas appliance when all are operating simultaneously or to a subset of appliances using an appropriate load diversity factor.
- Such that there is an assumption of a number of additional fittings and smaller diameter piping between Enbridge Gas' meter set and the point where the pipe diameter may increase. The designer/installer should anticipate that there may be a need to adjust the piping configuration near Enbridge Gas' meter and so should include in the design an assumption of additional fittings.

### Regardless of whether the application is residential, commercial, or industrial:

- A pipe diameter increase should be as close as possible to outlet of the meter.
- Avoid reducing the pipe diameter from the size of the meter outlet and then increasing the diameter further downstream.
- Branch the system only after the pipe diameter has been increased; or upstream of a decrease in pipe diameter.
- Include fittings or branched runs for future system expansion that are a minimum of the same size as the largest pipe diameter from where it branches.

### Purging customer supply piping systems

- As a result of the 2020 publication of CSA B149.1 that introduced a change for when purging with an inert gas is required, EGI will require proof that the installer purged the piping system with inert gas by completing and affixing a purging tag. This will be enforced as of June 30, 2023.
- When it is the responsibility of the installer to purge, if there is no completed purging tag or the purging was not done, EGI will not energize the piping system with gas.
- Installers will need to reschedule another appointment after purging has been done. A service charge may be applicable in the former Enbridge Gas areas.
- Rejects or Safety violations will not be issued.



Questions can be directed to Enbridge Gas at **1-800-924-5534**. The question will be directed to a technical representative who will return your call.