Water Meter Sizing Guide

How do I know when a Sizing Application is required?

A water meter sizing application is required when you meet one of the following criteria:

- ✓ Single Family residence with at least one of the following:
  - 3 or more washrooms (toilet, sink, and bathtub/shower)
  - Underground Irrigation
  - Flush valves (water enters the fixture directly through a mechanical device – tankless)
- ✓ Multi-Residential facility with a shared or common water meter
- ✓ Commercial or Industrial Facility
- ✓ Irrigation Service

If you have a Single Family residence with less than 3 washrooms, no underground irrigation and no flush valve fixtures then no Sizing Application is required and the standard 5/8" water meter will be provided.

What difference does the size of the water meter matter?

Choosing the "right" size of water meter is important for both the City and the customer. Water meters are sized based on accuracy and the probable maximum demand. Water meters are also charged a daily rate based on the size of the meter. Having an undersized meter could cause excessive noise and pressure loss. An oversized meter may not be as accurate and could also result in a higher daily rate.

How do I proceed when there is more than one water meter required?

A separate water meter sizing application is required for each individual water meter to ensure the right size meter is selected. Some examples of this could be:

- ✓ A multi-residential customer requesting a separate water meter for both the domestic and irrigation water services. The domestic or customer demand is independent of the irrigation demand and each meter must be sized accordingly. Note: One water meter that is sized for both the Domestic and Irrigation demand is permitted to be used.
- ✓ A commercial building with separate water metered lease spaces. Each space must be sized individually based on the demand of that space.

What happens when I don't know the demand?

When the demand is unable to be determined at the time of application, contact our program to discuss. For example, a partial leased multi-space commercial facility with one City meter where the demand will remain unknown until all spaces develop.

What if I need/want to change the size of the meter?

Changing the size of the meter could create additional costs. The customer will be responsible for the cost to make the necessary changes to the piping to accommodate the new meter size. In addition, the City may charge a fee to cover costs (labour, testing, etc.)

Can I add fixtures or equipment to the facility?

In most cases the addition of fixtures and equipment will not impact the size of the meter. However, when there is a significant amount of change made or during a complete renovation of a space, a sizing application should be submitted.

Application Form Information

Applicant Information – Important information about the customer's name, location and contact information. In some cases, the applicant may be completing the application on behalf of the customer. All fields on this form are all mandatory and must be completed.

Section A – Indicate the number of fixtures served by the water service. Each has an assigned fixture value which is then converted to a total peak demand in litres per minute.

Note: Booster pumps will not add demand to the system, however the draw through the water meter must be considered during sizing.

Section B – If an irrigation system is served from the same meter as the domestic demand, then that demand must be included. If the irrigation meter is separate, it can be sized based on the irrigation demand only. Indicate the largest zone demand in litres per minute.

Section C – Some facilities will have water demand in addition to those found in Section A. Feel free to review the categories listed in Appendix A. If there is any water demand not accounted for in Section A then you must select YES and complete Appendix A to be included with the application.

Total Design Demand – In lieu of completing individual sections this may be completed by a professional engineer as the total demand of fixtures, equipment, etc. has been accounted for in the mechanical design. Note: This is all demand through a single meter and separate applications are required for separate meters. Indicate in litres per minute.

Appendix A – Combine water demand for each group of equipment. Daily consumption converted to litres per minute is not truly representative of peak demand and must not be used. A professional engineer or licensed mechanical contractor must complete this section.

If you have any questions regarding the application or water meter at your facility, contact our program at (306) 777-7641 or email to watermetersizingform@regina.ca.