

Water Service Pipe Hydraulic Load Calculations

Complete the following to determine private water service pipe size requirements.

Table A - Fixture Hydraulic Load Calculation for Water Service Pipe Size: Per Each Real Estate Entity

Consider all buildings supplied by your metered water connection. Each individually titled unit must have its own water metre. For properties with multiple real estate entities, contact *Infrastructure Services* to arrange installation of additional water metres.

Fixture or Device (As per Table 2.6.3.2.-A)	Fixture Units (A)	Qty of Fixtures (B)	Load (A x B)
Bathroom Group - three fixtures only (1 toilet, 1 basin and 1 bathtub or 1 shower stall = 1 Bathroom group)	3.6		
Bathtub	1.4		
Clothes Washer	1.4		
Dishwasher	1.4		
Hose bibb – ½"	2.5		
Sink, bar	1		
Sink, Bathroom (Lavatory or Basin)	0.7		
Sink, kitchen	1.4		
Sink, laundry (1 or 2 compartments)	1.4		
Shower stall (1 shower valve)	1.4		
Water closet (Toilet)	2.2		
Use TOTAL to determine size requirements in Table B		TOTAL LOAD =	

Table B - Private Water Service Pipe (Private Property) (As per Table 2.6.3.4.)

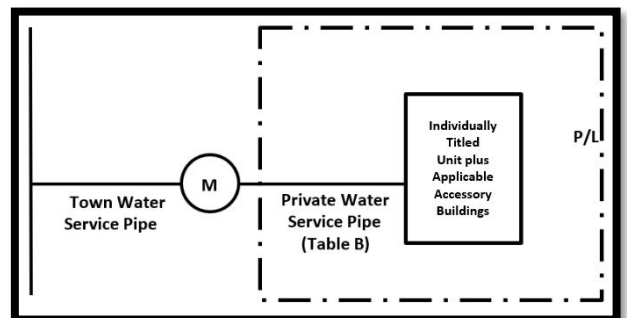
Select Water Velocity =

MAX ALLOWED TOTAL LOAD	Required Pipe Size	Select One	Completed by Applicant	
			Existing	Required
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sizing Procedure

- Determine TOTAL LOAD value by completing Table A
- Determine private water service pipe size requirements from Table B using TOTAL LOAD from Table A.

Note: When completing Table A, include ALL fixture units serviced by a single metre connection. This might include plumbing fixture unit loads for accessory buildings or other features on the property. The total length of the water system must not exceed 90m without a P.Eng.



Please note : This information was prepared to provide convenient information, and should not be considered a replacement for reviewing the bylaw or associated legal documents. If there is a contradiction between this guide and relevant municipal bylaws and/or applicable codes, please refer to the bylaws and/or codes for legal authority.

