



CITY OF ANN ARBOR, MICHIGAN

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Water Service Line and Meter Sizing May 2019

Service lines and water meters shall be sized to meet the requirements of the Plumbing Code. The table below identifies the maximum allowable flow and water supply fixture units allowed for a given service line and meter size. When usage pattern in a facility is uncertain, the City may require the service line and water meter to be increased in size.

The maximum size water service connection shall be one standard size smaller than the water main to which it connects. The water meter must be at least one standard size smaller than the size of the water service connection.

Current Available Meters:	
5/8", 3/4" and 1"	Badger E-Series Ultrasonic with Polymer Body
1.5" and 2"	Badger E-Series Ultrasonic with Stainless Steel Body
3" and Larger	Honeywell/Elster evoQ4 Electromagnetic Meter

Service Connection Size	Maximum Meter Size	Maximum Continuous Flow (GPM)	Pressure Loss at Maximum Flow (PSI)	Maximum Water Supply Fixture Units (Predominantly Flush Tanks)	Maximum Water Supply Fixture Units (Predominantly Flushometer Valves)
3/4"*	5/8" Ultrasonic	20	8	20	7
1"	3/4" Ultrasonic	30	8.9	50	13
1.5"	1" Ultrasonic	50	5.5	120	45
2"	1.5" Ultrasonic	100	2.2	300	200
4"	2" Ultrasonic	160	5.3	650	600
4"	3" Electromagnetic	550	0.2	4000	4000
6"	4" Electromagnetic	880	0.2	Meters 4" and larger require coordination with the City to determine model, flow capacity and delivery schedule.	
8"	6" Electromagnetic	1400	0.1		
10"	8" Electromagnetic	3500	0.1		
12"	10" Electromagnetic	5500	0.1		
>12"	12" Electromagnetic	5500	<0.1		

*Only applies to existing service connections. Minimum new service size connection is 1" with a 3/4" water meter.