



WATER METER & SERVICE LINE SIZING
(GENERAL INFORMATION)

Utility requests outside City Limits are limited to 3/4" meters for residential applications. If applicant wishes to request a larger meter for residential applications, additional documentation showing need for increased flowrate will be required. Current City meters and their corresponding normal operating flow range are listed below for reference. The maximum instantaneous demand for an individual residential use is 15 gallons per minute (gpm) using the Community Water System Source Book by Joseph S. Amen, as reference.

METER	FLOW (GPM)
3/4"	2 to 30
1"	3 to 50
2" (C2)	0.5 to 200
2" (T2)	1.5 to 250

For applications with long service lines, the City recommends sizing the service lines to minimize anticipated head loss from friction. Below is some general information regarding frictional head loss per 100 linear foot of pipe to help in preliminary design of service lines. These figures are not exact and do not account for other head loss factors. A licensed plumber or other professional should be consulted for proper sizing and installation of private service lines.

Line Size (in)	Headloss (PSI/100ft)
3/4"	29.6
1"	7.3
2"	0.25

*These figures are based on a flowrate of 15 gpm and a roughness coefficient of 140 for smooth pipes.