



Water Meter Selection Criteria for Sizing Potable Water Systems and Landscape Irrigation Systems

Meter Size*	Meter Type	Maximum Continuous Flow <i>gpm</i>	Head Loss <i>psi</i>	Design Service Pressure**, **** <i>psi</i>
	3/4" to 2" meters – Sensus PMM			
	3" to 6" Acteris Flostar			
3/4 inch***	Sensus PMM	30	14	60
1 inch	Sensus PMM	50	14	60
1 1/2 inch	Sensus PMM	120	14	60
2 inch	Sensus PMM	160	14	60
3 inch	Acteris Flostar	320	14	60
4 inch	Acteris Flostar	500	14	60
6 inch	Acteris Flostar	1000	14	60

* For applications where meters larger than 2 inch are required by design the designer may manifold multiple smaller meters in lieu of one larger meter. If a 3 inch or larger meter is necessary or desired the applicant shall provide Projected Maximum Annual Usage calculations prepared by an Arizona Licensed Professional Engineer to the project plans Examiner. Contact your plans examiner for additional information or Ben Cox, Building Plan Review Administrator at 480-503-6719.

** The designated water service pressure provided by the Town and determined to be appropriate and required for the design of all potable water piping systems. The use of the 2006 IPC, Table E201.1, Pressure Range 50 to 60 PSI shall be used where systems are not designed per 2006 IPC Appendix E. This is also the recommend service pressure for the design of landscape irrigation systems.

Fire Sprinkler System design must be based on actual flow test data and is site specific; contact Public Works Department for flow test at 480-503-6400; data determined from this flow test shall not be used for potable water system design.

*** Not permitted for use with residential fire sprinkler system, minimum 1 inch meter required.

**** For residential potable water piping system designs use the following:

- For Standardized Home Plans use 2006 IPC Table P2903.7, Pressure Range 50 to 60 PSI, and Maximum Development Length 100 feet for all conditions.
- For Custom Homes use 2006 IPC Table P2903.7, Pressure Range 50 to 60 PSI, Actual Maximum Development Length in Feet