

March 2019

AWWA Operating Characteristics For Cold Water Meters - Info below is only for the use of providing data in the "Meter Notice" on the AW Gen. Info. & Const. Notes Sheet. - See Example to the Right.

Column 1		Column 3	Column 4
Meter Size & Type	Safe Maximum Operating Capacity GPM*	Normal Test Flow Rate Limits GPM	AW Service units based on revised Max. Cont. Flow

Positive Displacement = Potable Domestic Mtr.s 5/8" to 2" & Reclaimed Mtr.s or Potable Irrigation Mtr.s 1" and Smaller

AWWA C700-15

5/8"	20	1-20	1
3/4"	30	2-30	1.5
1"	50	3-50	2.5
1-1/2"	100	5-100	5
2"	160	8-160	8

Turbine Class II = Reclaimed Mtr.s or Potable Irrigation Mtr.s 1.5" & Greater Shall Be Turbine CL II

AWWA C701-15

1.5"	120	4-120	9
2"	190	4-190	16
3"	435	8-435	35
4"	750	15-750	65
6"	1600	30-1600	140
8"	2800	50-2800	240
10"	4200	75-4200	350
12"	5300	120-5300	440

Compound = Domestic Mtr.s

AWWA C702-15

3"	350	2-350	17.5
4"	600	3-600	30
6"	1350	5-1350	67.5

Combination Fire and Domestic Service**	Safe Maximum Operating Capacity GPM	Normal Flow Range and test range	AWU Service Units
-----------------------------------------	-------------------------------------	----------------------------------	-------------------

Type III C703-15

4" X 2"	700	15-700	****
6" X 2"	1600	30-1600	****
8" X 2"	2800	35-2800	****
10" X 2"	4400	55-4400	****
(2" = 2" Turbine)	190	4-190	****

* Operations at this flow rate should not exceed 10% of usage or 2 hours in a 24-hour period for PD meters; 33% or 8 hours per day for turbine.	**Combination fire and domestic meters are only allowed if domestic flow exceeds that which can be provided by a 2" Turbine Meter (190 GPM).	*** Short-term Deluge max. flow is a water flow that is overwhelming in nature, for a short period of time as in fir fighting activities where all available water flow rate is directed at the target, even if far greater than SMOC. The head loss at short-term deluge max. may be significantly higher than the headloss given for the SMOC.	**** Service Units for Combination Fire and Domestic Meter based on Compound Meter Size that would be required for Domestic Flow.
-------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------

**Meter Notice:**

Meter 1.5 inches and larger must be purchased and ordered 90 days in advance of installation.

**Meter(s) Requirement for Project:**

Address: **123 Street Name**

Proposed Use: **Domestic**

Type: **See Column 1**

Size: **See Column 1** GPM: **See Column 3**

Service Units: **See Column 4**

**Meter(s) Requirement for Project:**

Address: **123 Street Name**

Proposed Use: **Irrigation**

Type: **See column 1**

Size: **See Column 1** GPM: **See Column 3**

Service Units: **See Column 4**

**Reclaimed Meter(s) Requirement for Project:**

Address: **123 Street Name**

Proposed Use: **Reclaimed**

Type: **See column 1**

Size: **See column 1** GPM: **See column 3**

To determine fire demand meter size, the Safe Maximum Operating Capacity in GPM must be greater than the combined sum of the domestic demand and the minimum required fire flow. For example, a domestic demand of 368 gpm plus the minimum required fire flow of 1875 gpm equals a combined domestic and fire demand of 2243 gpm. Therefore, an 8" X 2" Fire Demand Meter would be required. The Service Units would be based off of 368 gpm which would be the equivalent of a 4" Compound Meter having 30 Service Units.