Sample Calculations

Note: These sample calculations provide methodology for Right Sizing water meter. Using the Town of Burlington Right Size Excel spreadsheet will greatly simply the selection process.

Meter Criteria

- Proposed Public building
- System pressure at Building 70 psi
- No irrigation system
 - 1. Develop fixture count and Calculated Combined Fixture Value Total
 - 2. Based on Combined Fixture Value Total and Type of Occupancy use either Figure 4-2 or 4-3 to select Water Demand in Gallons Per Minute (gpm).
 - 3. Adjust Water Demand using Pressure Factor from Table 4-1.
 - 4. Calculate Customer Peak Demand. (Water Demand x Pressure Factor)
 - 5. Add Irrigation Demand
 - 6. Add Fixed Load demands if applicable.
 - 7. Calculate Total Fixed Demand.
 - 8. Select Meter

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Table 4-1 Pressure Adjustment Factors

	Pressure	
Working Pressure at	Adjustment	
Meter Discharge (psi)	Factor	
35	0.74	
40	0.80	
50	0.90	
60	1.00	
70	1.09	
80	1.17	
90	1.25	
100	1.34	

Select 70psi based on local Static Water Pressure

Adapted from AWWA Manual M22 table 4-1



Neptune Water Meter Operating Characteristics

Meter Type	Max. Operating Capacity (gpm)	Operating Range (gpm)	Low Flow (gpm)
Positive Displacement			
5/8"	20	1 - 20	1⁄8
3/4"	30	2 - 30	1/4
1"	50	3 - 50	3⁄8
1 1/2"	100	5 - 100	3⁄4
2"	160	8 - 160	1
Compound			
2"	200	1⁄2 - 200	1⁄8
3"	450	1⁄2 - 450	1⁄8
4"	1000	1 – 1000	1/2
6"	2000	1½ - 2000	3⁄4

Select 1 ¹/₂" Meter: operating capacity > 80 GPM