

**WATER METER SIZING CALCULATION SHEET
FOR NON-FIRE SERVICE WATER METERS**

Applicant, Customer & Premise Information

Date: _____ Building Permit Number: _____

Name: _____ Email: _____

Phone Number: (____) _____ Fax Number: (____) _____

Location/Address: _____

Property Identification Number (PID): _____ Lot Number: _____

Premise Use: _____

Type of Premise: Residential Multi-Unit Res. Industrial Commercial Institutional

Degree of Hazard: Minor Moderate Severe Number of Multi-Units: _____

Calculation

Step 1 – Fixture Demand – Adjust fixture value as required for public, commercial, industrial and institutional uses. Attach calculation sheets. Use AWWA M22 Fixture Value Methodology.

Fixture	Fixture Value		Number of Fixtures	=	Fixture Units
_____	_____	X	_____	=	_____
_____	_____	X	_____	=	_____
_____	_____	X	_____	=	_____
_____	_____	X	_____	=	_____
_____	_____	X	_____	=	_____
_____	_____	X	_____	=	_____
_____	_____	X	_____	=	_____
_____	_____	X	_____	=	_____
_____	_____	X	_____	=	_____
_____	_____	X	_____	=	_____
_____	_____	X	_____	=	_____
_____	_____	X	_____	=	_____
_____	_____	X	_____	=	_____
_____	_____	X	_____	=	_____
_____	_____	X	_____	=	_____
_____	_____	X	_____	=	_____
_____	_____	X	_____	=	_____
_____	_____	X	_____	=	_____
_____	_____	X	_____	=	_____
_____	_____	X	_____	=	_____
Combined Fixture Value Total				=	_____ (A)

Step 2 – Calculate Customer Unadjusted Peak Demand

Customer Peak Demand extrapolated from Figure 4-2 or Figure 4-3 = _____ usgpm (B)

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Calculation continued

Step 3 – Apply Pressure Adjustment Factor

_____ kPa (_____ Psi) Pressure Factor From Table 4.1 = _____ (C)
 Customer Adjusted Peak Demand (B X C) = _____ usgpm (D)

Step 4 – Add Underground Irrigation Demand

<u>Underground Sprinklers</u>			<u>Sections (1 section = 100 ft²)</u>		
Spray Systems	_____ 1.16 _____	x	_____	=	_____ usgpm (E)
Rotary Systems	_____ 0.4 _____	x	_____	=	_____ usgpm (F)
Total Irrigation Flow (E + F)				=	_____ usgpm (G)

Step 5 – Calculate Total Peak Demand

Total Peak Demand (D + G) = _____ usgpm (H)

Step 6 – Size and Select Water Meter (Refer to 3.1.2 of the Manual)

Meter Selection

Water Meter Make: _____
 Water Meter Model: _____
 Water Meter Size (H < 90% of Water Meter Rated Peak Instantaneous Flow) = _____ mm (I)
 Water Meter Size (maximum allowable pressure drop of 48 kPa (7 Psi)) = _____ mm (J)
 Meter Size Calculated (greater of I or J) = _____ mm
 Indoor or Outdoor Installation = _____
 Water Service Connection Size (for information) = _____ mm

Water Meter Sizing Certification

Designer: _____
 Professional Engineer or Licensed Plumber (Print) (Signature)

Company: _____

Phone Number: (____) _____

Email: _____

Comments: _____

Seal: 