



CITY OF CORPUS CHRISTI DEVELOPMENT SERVICES

2406 Leopard St. Corpus Christi, TX 78408 Phone: 361-826-3240

Instructions for Completing Water Meter Sizing Worksheet

The Water Meter Sizing Worksheet helps determine the water meter size needed for projects requiring new or upsized water services.

NOTE: The Worksheet must be completed for meter sizes 1½" - 4."

Who needs to complete this form?

Complete this form if you have new construction, alterations or additions to residential or non-residential use that require a new or upsized water service that will connect to the public water system.

This worksheet must be completed if the applicant:

- Constructs a new building
- Adds or removes plumbing fixtures

Potential commercial building permit applicants are encouraged to complete this worksheet in preplanning or planning stages. Our staff can discuss water services and meter configurations that might meet your needs, and can answer questions related to the water service portion of building permits.

What kind of information does this worksheet request?

The Meter Sizing Worksheet is an inventory of the plumbing fixtures in your project. Each fixture is given a value based on typical water use. Follow the instructions to determine the water meter size that will provide optimum water flow throughout your site. You will calculate Total Fixture Unit Values and be able to match this value to the meter size.

Instructions

1. Enter the total number of each fixture type intended for the completed new structure. If applicable, enter the "Other Fixture Description & Values". The form automatically calculates each individual fixture count.
2. The "Initial Fixture Count" is the sum of the column titled "Fixture Count".
3. Enter the additional gallons per minute (GPM) from Irrigation Systems, Special Equipment or other sources on this meter, if applicable.
4. The "Total Fixture Value" is the sum of the "Initial Fixture Count" and "Gallons per Minute".
5. Use the "Reference Water Meter Size" to determine the "Calculated Meter Size". The values shown for the "Gallons Per Minute (GPM):Fixture Value(FV)" are the maximums for each meter size.
6. Enter the "Calculated Meter Size" and "Requesting Meter Size". The quote for the meter size will be based on the value entered on "Requesting Meter Size".
7. Select "Full Tap" if the applicant is requesting the City performs the tap and meter set.
8. Select both "Meter Set" and "Contractor Supplied Tap" if an approved Utility Contractor will perform the tap.



Water Tap & Meter Sizing

DATE _____

ADDRESS _____

LEGAL _____

BK _____

LT _____

SUBMITTED BY _____

FAX or EMAIL _____

FACILITY NAME _____

CONTACT PHONE _____

2021 International Plumbing Code

FIXTURE TYPES AND COUNTS

FIXTURE TYPE	FIXTURE UNIT VALUE	X	NUMBER OF FIXTURES	=	FIXTURE COUNT
Automatic Clothes Washers, Commercial	3				
Automatic Clothes Washers, Residential	2				
Bathroom Group (1.6 gpf Water Closet)	5				
Bathroom Group (greater than 1.6 gpf Water Closet)	6				
Bathtub	2				
Bidet	1				
Combination Sink and Tray	2				
Dental Lavatory or Cuspidor	1				
Dishwashing Machine, Domestic	2				
Drinking Fountain	1/2				
Floor Drains	2				
Kitchen Sink, Domestic	2				
Laundry Tray (1 or 2 Compartments)	2				
Lavatory	1				
Shower (Based on Total Flow Rate)					
Flow Rate:					
5.7 gpm or less	2				
Greater than 5.7 gpm to 12.3 gpm	3				
Greater than 12.3 gpm to 25.8 gpm	5				
Greater than 25.8 gpm to 55.6 gpm	6				
Service Sink	2				
Sink	2				
Urinal	4				
Wash Sink	2				
Water Closet, Flushometer Tank, Public/Private	4				
Water Closet, Private (1.6 gpf)	3				
Water Closet, Private (greater than 1.6 gpf)	4				
Water Closet, Public (1.6 gpf)	4				
Water Closet, Public (greater than 1.6 gpf)	6				
OTHER (write description)					

NOTES: 1 The Maximum Number of 3/4" Meters on a 1" tap is 2, and the Maximum Number of 3/4" Meters on a 2" tap is 8.
2 All 3" & 4" Water shall be installed Above Ground, unless prohibited by the Specific Site Circumstances.

GPM/FU CONVERSION		COMMENTS:	FIXTURE COUNT FROM ABOVE				
GPM	FU		ESTIMATED COUNT FROM GPM				
20	30		TOTAL FIXTURE VALUE				
40	86						
60	175						
100	380	MINIMUM SIZE OF TAP AND WATER METER					
200	945	METER SIZE (based on maximum flow for Neptune Turbine Water Meters, with a 5 psi friction loss)					
400	2670	Fixture Value : Gallons Per Minute			[NOTE GPM: 6"=2,800; 8"=3,500; 10"=6,000; 12"=9,000; 16"=14,500]		
600	4480	3/4"	1"	1 1/2"	2"	3"	4"
1000	8300	30:20	50:28	430:150	1173:230	1755:300	8300:1000