

Water Meter Sizing Form

One Form Per Meter

Please call Public Utilities Engineering (239) 252-2583 with any questions.

Preparer's Information:	Project Information:	Date ====> _		
Name ======>	Permit or AR Number			
Title =====>	Name of Project ===>			
Company=====>	Project Address ===>			
Address ======>				
Phone =====>				
Email Address ====>				
 Please Note: 1. All commercial facilities must be metered separately from residential facilities w metered residential development and designed for the exclusive use of the residential 		mercial facilities that are withi	n a master	
2. The Design Engineer/Architect must submit signed and sealed documentation s Fixture Flow Values as shown on the following page and sized as per the Table on Project Management Department. For all meters the Engineer/Architect must consi	page 3 unless approved othe	rwise by the Collier County Pu		
3. For remodeling projects this form must be submitted only if there is a net increase	se in Fixture Flow Value.			
This Section to be filled out to	by Engineer/Architect of	Record:		
Demand in accordance with the Fixture Flow Value Worksheet and the Table for Estimating Demand		Demand Range (GPM)	Meter Size	
(Engineer/Architect must attach a completed Fixture Flow Value Worksheet)		0 to 30	3/4"	
		30.1 to 50	1"	
Meter Size in Inches		50.1 to 100	1 1/2"	
(If the meter is existing, Engineer/Architect must identify the meter manufacturer and model number)		100.1 to 160	2"	
		160.1 to 450	3"	
		450.1 to 1000	4"	
Type or Print Name of Engineer/Architect of Record for Project				
Signature of Engineer/Architect of Record for Project and Date [Affix Engineering/Architect Stamp Here]				
-				



Fixture Flow Value Worksheet

Supporting Documentation

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Enter # of Fixtures of each Fixture Type, per unit, then multiply by appropriate Flow Rate to get Fixture Value

Fixture		Flow Rate		# of Fixtures Per Build	ing Fixtu	re Flow Value
Automatic clothes Washer						
Commercial		3	x		=	
Residential		2	x		=	
Bathroom group						
As defined in FL Plumbing Code Section	202					
(1.6 gpf water closet)		5	Х		=	
Bathtub		4	х		=	
Bidet		2	х		=	
Dental unit or cuspidor		1	x		=	
Dishwasher, residential		2.75	<u>x</u>	1	=	2.75
Drinking fountain		0.75	x		=	
Shower		3	х		=	
Sillcock, hose bibb		5	х	2	=	10
Sink (per faucet)						
Kitchen, residential		2	x	1	=	2
Laundry tray		4	x		=	
Lavatory		2	x	4	=	8
Service		3	x	1	=	3
Wash		2	X		=	
Urinal						
Standard		4	x	1	=	4
Flushless		0	x		=	
Valve* Gallons/Flush = <mark>0.</mark>	<mark>125</mark> x10		х		=	
Water Closet						
Flushometer valve* Gallons/Flush = 1.	<mark>28</mark> _{x10}		х		=	
Flushometer tank		1.6	х	3	=	4.8
Tank		4	х		=	
For any fixtures not listed, submit manufact						
Other:			х		=	
Other:			×		=	
Other:			x		=	
Other:			х		=	
Other:			×		=	
				Total Fixture Value Pe	er Building =>	
			Number o	of Units with this Fixture	Count ====>	
	Grand Tota	al of Fixture Fl	ow Value (Per	Unit Total x Number of U	nits)** ====>	

^{*}Valves are calculated using a flush rate of 10 flushes per minute (according to Florida Plumbing Code). The flow rate is 10 times the gallons per flush.

The fixture flow value is calculated as follows:

^{**}Use total Fixture Flow Value on "Table for Estimating Demand" to estimate water meter demand.



Table for Estimating Demand

Supporting Documentation

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PLY SYSTEMS PREDOMINANTLY FOR FLUSH TANKS		SUPPLY SYSTEMS PREDOMINANTLY FOR FLUS VALVES		
Load	Demand	Load	Demand	
Fixture Flow Value	Gallons per minute	Fixture Flow Value	Gallons per minute	
1	3.0			
2	5.0			
3	6.5			
4	8.0			
5	9.4	5	15.0	
6	10.7	6	17.4	
7	11.8	7	19.8	
8	12.8	8	22.2	
9	13.7	9	24.6	
10	14.6	10	27.0	
11	15.4	11	27.8	
12	16.0	12	28.6	
13	16.5	13	29.4	
14	17.0	14	30.2	
15	17.5	15	31.0	
16	18.0	16	31.8	
17	18.4	17	32.6	
18	18.8	18	33.4	
19	19.2	19	34.2	
20	19.6	20	35.0	
25	21.5	25	38.0	
30	23.3	30	42.0	
35	24.9	35	44.0	
40	26.3	40	46.0	
45	27.7	45	48.0	
50	29.1	50	50.0	
60	32.0	60	54.0	
70	35.0	70	58.0	
80	38.0	80	61.2	
90	41.0	90	64.3	
100	43.5	100	67.5	
120	48.0	120	73.0	
140	52.5	140	77.0	
160	57.0	160	81.0	
180	61.0	180	85.5	
200	65.0	200	90.0	
225	70.0	225	95.5	
250	75.0	250	101.0	
275	80.0	275	104.5	
300	85.0	300	108.0	
400	105.0	400	127.0	
500	124.0	500	143.0	
750	170.0	750	177.0	
1,000	208.0	1,000	208.0	
1,250	239.0	1,250	239.0	
1,500	269.0	1,500	269.0	
1,750	297.0	1,750	297.0	
2,000	325.0	2,000	325.0	
2,500	380.0	2,500	380.0	
3,000	433.0	3,000	433.0	
4,000	535.0	4,000	535.0	
5,000	593.0	5,000	593.0	